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Mr. John Kieling, Chief
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Dear Mr. Kieling

Kirtland Air Force Base (AFB) is pleased to submit, *"FORMER FUEL OFF-LOADING RACK EXCAVATION REPORT", February 2015*, for the Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland AFB, NM. Results of the report show that contaminated soil was successfully removed to a depth of 20 feet below ground surface during the 2014 excavation activities.

Please contact Mr. L. Wayne Bitner at (505) 853-3484 or at ludie.bitner@us.af.mil, or Mrs. Victoria R. Branson at (505) 846-6362 or at victoria.branson@us.af.mil, if you have further questions.

Sincerely

TOM D. MILLER, Colonel, USAF
Commander

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KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

Former Fuel Offloading Rack
Excavation Report

Bulk Fuels Facility Spill
Solid Waste Management Units ST-106 and SS-111

February 2015

377 MSG/CEANR
2050 Wyoming Blvd. SE
Kirtland AFB, New Mexico 87117-5270

KIRTLAND AIR FORCE BASE
ALBUQUERQUE, NEW MEXICO

FORMER FUEL OFF-LOADING RACK EXCAVATION REPORT
BULK FUELS FACILITY SPILL
SOLID WASTE MANAGEMENT UNITS ST-106 AND SS-111
KIRTLAND AIR FORCE BASE, NEW MEXICO

February 2015

Prepared for
U.S. Army Corps of Engineers
Albuquerque District
Albuquerque, New Mexico 87109

USACE Contract No. W912DY-10-D-0014
Delivery Order 0002

Prepared by
CB&I Federal Services LLC
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This Former Fuel Off-Loading Rack Excavation Report was prepared by CB&I Federal Services LLC for the U.S. Army Corps of Engineers under Contract No. W912DY-10-D-0014, Delivery Order 0002. This report pertains to excavation activities associated with the Kirtland Air Force Base Bulk Fuels Facility Spill, Solid Waste Management Unit ST-106, specifically at the Former Fuel Off-Loading Rack. The Bulk Fuels Facility Spill site is located in Albuquerque, New Mexico. This report was prepared in accordance with all applicable federal, state, and local laws and regulations.

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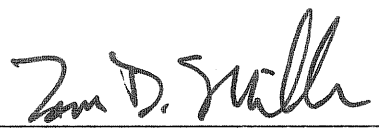

TOM D. MILLER, Colonel, USAF
Commander, 377th Air Base Wing

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377th Air Base Wing Public Affairs

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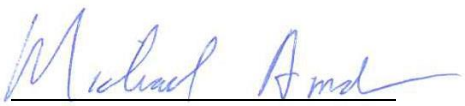
PREFACE

This Former Fuel Off-Loading Rack Excavation Report was prepared by CB&I Federal Services LLC (hereafter referred to as CB&I) for the U.S. Army Corps of Engineers (USACE), under Contract No. W912DY-10-D-0014, Delivery Order 0002. It pertains to the Kirtland Air Force Base Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111, located in Albuquerque, New Mexico. This Report was prepared in accordance with applicable federal, state, and local laws and regulations, including the New Mexico Hazardous Waste Act, New Mexico Statutes Annotated 1978, New Mexico Hazardous Waste Management Regulations, and Resource Conservation and Recovery Act; regulatory correspondence between the New Mexico Environment Department Hazardous Waste Bureau and the Air Force dated April 2, June 4, August 6, and December 10, 2010; and *Base-Wide Plans for Investigations Under the Environmental Restoration Program, 2004 Update, Albuquerque, New Mexico: Kirtland AFB* (Tetra Tech, 2004).

This work was performed under the authority of the USACE, Contract No. W912DY-10-D-0014, Delivery Order 0002. Mr. John McBee is the Project Manager for the USACE Albuquerque District. Mr. Wayne Bitner, Jr. is the Kirtland Air Force Base Restoration Section Chief, and Dr. Michael Amdurer is the CB&I Project Manager. This Report was prepared by Ms. Caitlin LaChance and Ms. Tara Kunkel.



Michael Amdurer, PG, PhD
CB&I Federal Services LLC
Project Manager

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ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
Air Force	U.S. Air Force
ASTM	American Society for Testing and Materials
BFF	Bulk Fuels Facility
bgs	below ground surface
CB&I	CB&I Federal Services LLC
DPT	direct-push technology
DRO	diesel range organics
DQO	data quality objective
EDD	electronic data deliverable
EPA	U.S. Environmental Protection Agency
FFOR	Former Fuel Off-Loading Rack
GRO	gasoline range organics
Hall	Hall Environmental Analysis Laboratory, Inc.
IDW	investigation-derived waste
JP-8	jet propellant grade 8
KAFB	Kirtland AFB
LOD	limit of detection
LOQ	limit of quantitation
mg/kg	milligram per kilogram
MQO	measurement quality objective
MS	matrix spike
MSD	matrix spike duplicate
NMED	New Mexico Environment Department
ORO	oil-range organics
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
Report	Former Fuel Off-Loading Rack Excavation Report
RPD	relative percent difference
RSL	regional screening level

ACRONYMS AND ABBREVIATIONS (concluded)

SCL	sample collection log
SSL	soil screening level
SVE	soil vapor extraction
SVEW	soil-vapor extraction well
SVOC	semivolatile organic compounds
SWMU	Solid Waste Management Unit
TPH	total petroleum hydrocarbons
USACE	U.S. Army Corps of Engineers
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This Former Fuel Off-Loading Rack (FFOR) Excavation Report (hereafter referred to as Report) was prepared by CB&I Federal Services LLC for the U.S. Army Corps of Engineers under Contract No. W912DY-10-D-0014, Delivery Order 0002. This Report describes the excavation field activities and results from confirmation soil sampling associated with Kirtland Air Force Base Bulk Fuels Facility (BFF) Spill, Solid Waste Management Unit ST-106, specifically at the FFOR. All excavation activities, sampling, and site restoration activities were performed in accordance with the *Interim Measures Work Plan, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111* (U.S. Army Corps of Engineers, 2011a), and the April 2, August 6, and December 10, 2010, regulatory correspondence between the New Mexico Environment Department (NMED) and the U.S. Air Force (Air Force) regarding the BFF Spill at Kirtland Air Force Base. The Interim Measures Work Plan was conditionally approved by the NMED in a letter dated June 30, 2011.

Soil containing hazardous constituents at concentrations exceeding the 2012 NMED residential soil screening levels (SSLs) was delineated during the soil investigations conducted from 2011 to 2013. The soil investigation determined the extent of hazardous constituents that exceed regulatory screening levels to a depth of 20 feet below ground surface (bgs), along the former fuel pipelines that connected the FFOR to the Pump House (Building 1033) and from Building 1033 to the former aboveground storage tanks (2420 and 2422) in accordance with the NMED directive letter dated August 6, 2010 (NMED, 2010b).

Based on the identified exceedance volumes, a total of approximately 2,340 cubic yards (3,684 tons) of contaminated soil was removed and transported off site for disposal. Confirmation soil samples were collected from the sidewalls and floor of the excavation areas to confirm that remaining soil was below NMED residential SSLs. Step-out excavations were completed at sample locations exceeding regulatory

criteria, and additional confirmation samples were collected to verify that remaining soil was below NMED residential SSLs.

Contaminated soil was successfully removed to a depth of 20 feet bgs during 2014 excavation activities in areas where excavation was possible. Confirmation soil samples indicate that petroleum-related constituents are no longer present in soil at concentrations exceeding their respective 2012 NMED residential SSLs down to 20 feet bgs at the FFOR.

1. INTRODUCTION

This Former Fuel Off-Loading Rack (FFOR) Excavation Report (hereafter referred to as Report) was prepared by CB&I Federal Services LLC (hereafter referred to as CB&I) for the U.S. Army Corps of Engineers (USACE) under Contract No. W912DY-10-D-0014, Delivery Order 0002. This Report describes the excavation field activities and results from confirmation soil sampling associated with the Kirtland Air Force Base (AFB) Bulk Fuels Facility (BFF) Spill, Solid Waste Management Unit (SWMU) ST-106, specifically at the FFOR. The BFF Spill site is located in Albuquerque, New Mexico (Figure 1-1). This Report was prepared in accordance with all applicable federal, state, and local laws, regulations, and documents, including the following:

- New Mexico Hazardous Waste Act New Mexico Statutes Annotated, 1978
- New Mexico Hazardous Waste Management Regulations, 20.4.1 New Mexico Administrative Code
- Resource Conservation and Recovery Act (RCRA)
- Kirtland AFB Hazardous Waste Treatment Facility Operating Permit, U.S. Environmental Protection Agency (EPA) Identification No. NM9570024423, issued by the New Mexico Environment Department (NMED) Hazardous Waste Bureau (NMED, 2010a) (hereafter referred to as the Permit)
- April 2, August 6, and December 10, 2010, regulatory correspondence between the NMED and the U.S. Air Force (Air Force) regarding the BFF Spill at Kirtland AFB
- *Interim Measures Work Plan, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111* (USACE, 2011a)
- *Former Fuel Off-Loading Rack Excavation and Step-Out Conflicts Addendum to Interim Measures Work Plan* (USACE, 2012)
- *Former Fuel Off-Loading Rack Step-Out Conflicts Addendum to Interim Measures Work Plan* (USACE, 2013)

1.1 Objectives and Scope

This Report was prepared in accordance with requirements in the April 2, August 6, and December 10, 2010, NMED directive letters, the Kirtland AFB RCRA Permit (NMED, 2010a), and the NMED-approved Interim Measures Work Plan (USACE, 2011a). The Report describes the excavation

field activities and results from confirmation soil sampling performed from June 2014 through September 2014 at the FFOR.

Excavation activities included the excavation and disposal of source area soil with concentrations that exceeded regulatory criteria. These activities removed hazardous constituents to depths of 20 feet below ground surface (bgs). Confirmation soil samples were collected from sidewalls and floors of the excavation areas to determine if further step-out excavations were necessary, and to verify removal of soil contamination exceeding NMED residential soil screening levels (SSLs). Confirmation soil samples were screened using the most recent NMED residential SSLs (NMED, 2012a). All excavation activities, sampling, and site restoration activities were performed in accordance with the Interim Measures Work Plan (USACE, 2011a). The Interim Measures Work Plan was conditionally approved by the NMED in a letter dated June 30, 2011.

1.2 Regulatory Requirements

In accordance with the Interim Measures Work Plan (USACE, 2011a), soil with hazardous constituent concentrations exceeding the 2012 NMED residential SSLs was excavated to a depth of 20 feet bgs. Following the 2011 soil investigation and subsequent step-outs, NMED revised the SSLs in February and June of 2012. An additional 28 locations where step-out samples were necessary were identified when results were compared to the revised SSLs. The August 6, 2010 NMED letter (NMED, 2010b) contained direction regarding clean-up criteria for shallow soil:

> Regarding clean up criteria, any soil contamination left in place within 20 feet of the surface must meet NMED risk requirements for an acceptable level of risk for all hazardous constituents (10^{-5} for carcinogens and Hazards Index < 1 for noncarcinogens under a residential land-use scenario). The Permittee may use the NMED's Soil Screening Levels in lieu of conducting a baseline risk assessment to determine the risk of contaminants.

> While the use of total petroleum hydrocarbons [TPH] as an indicator of contamination is convenient for field screening, the risk to human health and the environment must be assessed through the use of laboratory analysis of hazardous constituents (e.g., benzene, toluene, ethylene dibromide, naphthalene, xylenes).

Soil sample results exceeding 2012 NMED residential SSLs for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or lead were considered constituents of concern, as detailed in the December 10, 2010 NMED letter (NMED, 2010c):

> If lead, VOCs, or SVOCs are detected in soil at concentrations exceeding the NMED SSLs at a given location, the soil at the location shall be excavated, removed from the site, and properly disposed of.
>
> Expansion of sampling and the collection and analysis of additional samples shall continue until all soil containing VOCs, SVOCs, or lead at concentrations exceeding the NMED SSLs have been excavated.

Following the 2014 excavation and confirmation sampling, NMED revised the SSLs in December 2014 (NMED, 2014). The 2012 NMED residential SSLs were compared to the revised residential SSLs (NMED, 2014), and it was determined that there were no additional exceedances in confirmation, step-out confirmation, or DPT site characterization samples. After comparison of the confirmation soil results against the revised SSLs (NMED, 2014), three areas (FFOR-EXC12, FFOR-EXC35, and FFOR-EXC61) were identified as being over excavated with respect to the 2014 residential SSL for benzo(a)pyrene versus the 2012 residential SSL for the same constituent. Trichloroethane was detected in one original DPT sample (DP-19) above its respective 2012 residential SSL; the SSL for this constituent was lowered in 2014, however this area has been excavated. For the additional constituents of concern in the FFOR area, the 2014 residential SSLs reflect equal to or higher values than the 2012 SSLs therefore no additional areas of contamination have been identified.

1.3 Report Organization

The remainder of this Report is organized as follows:

- Section 2.0 – Site Setting and Background
- Section 3.0 – Remediation Activities
- Section 4.0 – Field Investigation Results
- Section 5.0 – Quality Assurance/Quality Control Results
- Section 6.0 – Summary and Conclusions
- References

2. SITE SETTING AND BACKGROUND

2.1 Site Description

Kirtland AFB is located in Bernalillo County in central New Mexico, southeast of and adjacent to the City of Albuquerque and the Albuquerque International Sunport (Figure 1-1). The approximate area of the base is 52,287 acres, and it is bordered by Albuquerque to the north and west, the Isleta Pueblo Reservation to the south, and the Cibola National Forest to the east.

The BFF is located in the northwestern portion of Kirtland AFB, and is comprised of two SWMUs, designated as ST-106 and SS-111. The vadose zone component of the BFF site is designated as SWMU ST-106. The BFF currently contains bulk storage for jet propellant grade 8 (JP-8), diesel fuel, and unleaded gasoline. A new fueling infrastructure was installed between 2011 and 2012, replacing the fuel infrastructure that was discovered to be leaking in November 1999. A temporary, alternate system was utilized while a new system was designed and constructed. JP-8 is currently stored in two aboveground storage tanks (2.1 and 4.2 million gallons) that replaced the original aboveground storage tanks in 2011. The fuel delivered to the JP-8 off-loading rack (Building 2404) is conveyed to the Pump House (Building 1033) via aboveground transfer lines. A second small off-loading rack (Building 2401) is used for the delivery of diesel and unleaded gasoline motor vehicle fuels. Figure 2-1 depicts the infrastructure present at the eastern portion of the BFF source area.

2.2 Operational History

Historical aerial photography reveals that the BFF area was used for fuel storage and processing as early as 1951. Subsequent aerial photographs indicate that construction of the facility and associated infrastructure took place from 1951 until 1953. Once completed, the facility operated until it was removed from service in 1999, as a result of below-grade line leakage along the former fuels off-loading rack (CH2M Hill, 2001).

SWMU ST-106 was first reported to NMED on November 15, 1999. Kirtland AFB personnel notified the Kirtland AFB Environmental Management Department of observed stained soil at the off-loading rack. Personnel dug down in areas where stained soil was observed and found that the soil was saturated with fuel. The fuel-transfer lines were subsequently tested. In November 1999, three known discharges occurred from the lines that transferred fuel from the JP-8 off-loading rack (Building 2405) to the Pump House (Building 1033). The transfer pipelines were in a state of failure for an unknown duration. Contamination in the subsurface soil at the FFOR appears to be a result of various releases that have occurred over the operational history of the BFF. Conceptually, releases could have occurred when fuel was transferred from railcars, through the FFOR to the Pump House (Building 1033), and then to the bulk fuel storage containers on the south end of the site (Tanks 2420 and 2422).

Due to the failure of the below-grade fuel pipelines from the off-loading rack, the underground transfer lines were removed and replaced by aboveground transfer lines between 2011 and 2012. The operational history at the FFOR is discussed in further detail in the Interim Measures Work Plan (USACE, 2011a).

2.3 Regional Geology

The geology of the Kirtland AFB area varies in accordance with the regional geology. The eastern portion of the base is mountainous with elevations reaching 7,900 feet above mean sea level. These mountains are composed of Precambrian metamorphic and igneous (primarily granite) and Paleozoic sedimentary rock (primarily marine carbonates). The western portion of the base (which includes the BFF) lies within the Albuquerque Basin. Geologic features in this area of the basin include travertine and unconsolidated and semiconsolidated piedmont deposits, as well as aeolian, lacustrine, and stream channel deposits.

In general, the surficial geology is characterized by recent deposits (i.e., mixtures of sandy silt and silty sand with minor amounts of clay and gravel), Ortiz gravel (i.e., alluvial piedmont sand and gravel deposits), and the Santa Fe Group (i.e., a mixture of sand, silt, clay, gravel, cobbles, and boulders).

Generally, the northern and western portions of Kirtland AFB are dominated by unconsolidated geologic units; consolidated units predominate in the eastern half of the base.

2.4 Site-Specific Geology

Generally, the geology at the FFOR from 0 to 20 feet bgs consists of silty sands and silts with some clay. The lithology varies slightly between the area northwest of the Pump House (Building 1033) and the area to the southeast near the former fuel tanks. North of and directly south of the Pump House (Building 1033), the lithology is generally sandy silt, or silt with sand that transitions to silt between 3 and 5 feet bgs. The sand content of the soil decreases until it transitions to lean clay generally between 10 and 15 feet bgs. This clay layer (1 to 5 feet thick) transitions back to silt or elastic silt by 20 feet bgs.

Southeast of Building 1033 along the former pipeline and near the former fuel tanks, the clay layer is also observed, generally between 8 and 15 feet bgs, although not as regularly as in the areas northwest of Building 1033. In this area, the lithology is more often classified as silt and sandy silt. Soil classification logs for soil borings installed at the FFOR during the initial soil investigation are included in the *Quarterly Pre-Remedy Monitoring and Site Investigation Report for April – June 2014, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111* (USACE, 2014a).

2.5 Previous Investigations at the FFOR

Previous investigations were conducted by CB&I to determine the extent of shallow soil containing hazardous constituents at concentrations exceeding NMED residential SSLs (NMED, 2012a) as part of the NMED-directed Interim Measures Investigation Work Plan (USACE, 2011a). Sampling was conducted around the footprint of the former aboveground fuel tanks and along the former FFOR pipelines. Soil-boring installation and sampling for these tasks took place from February 2011 through September 2013, with 367 soil borings installed. Sampling around the former aboveground storage tanks, the initial soil investigation around the FFOR pipelines, and subsequent step-out sampling events

conducted by CB&I are discussed below. All soil samples collected during the initial 2011 soil investigation and subsequent step-out investigation were analyzed in accordance with procedures found in EPA SW-846 (EPA, 2007).

2.5.1 Shallow Soil Investigation around Former Aboveground Storage Tanks (2011)

Sampling around the former fuel tanks was performed in February 2011, as specified in the Vadose Zone Investigation Work Plan (USACE, 2011b). Five shallow soil borings (Kirtland AFB [KAFB]-106143 through KAFB-106147) were installed around the former aboveground storage tanks using direct-push technology (DPT) to depths of 20 feet bgs (Figure 2-2). Soil samples were collected at 5-foot intervals from 0 to 21 feet bgs and submitted for laboratory analysis of TPH (EPA Method 8015), VOCs (EPA Method 8260), SVOCs (EPA Method 8270), and lead (EPA Method 6010). No analytes were detected above applicable NMED residential SSLs.

2.5.2 Initial Soil Investigation along Former Pipelines (2011)

The initial soil investigation fieldwork was performed from June 2 through August 17, 2011. DPT borings were installed along the centerline and on each side of former pipelines that connected the FFOR to the Pump House (Building 1033). DPT borings were advanced on 10-foot centers oriented directly over what was once the centerline of the now-excavated pipelines, and 5 feet on either side. DPT borings were also installed at three suspected leak locations that were previously identified along the pipeline at approximately 18, 150, and 200 feet, respectively, from the west end of the FFOR (Figure 2-1). DPT borings were installed along these three locations in a 5-foot grid to better evaluate the area of the suspected leaks.

DPT borings were also installed along two lines oriented parallel to the pipe centerline that extends from the Pump House (Building 1033) to the two former storage fuel tanks located to the southeast of

Building 1033. Soil samples were collected with a 20-foot spacing interval and were no farther than 5 feet from the pipe centerline, as directed in NMED correspondence (NMED, 2010c) (Figure 2-2).

A total of 301 boreholes were completed along both segments of the former pipeline. Samples from both segments of the former pipeline were collected at depth intervals of 0 to 1, 5 to 6, 10 to 11, 15 to 16, and 20 to 21 feet bgs and submitted for laboratory analysis of TPH (EPA Method 8015B), VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), and lead (EPA Method 6010C) (Table 2-1). Five boreholes were not completed during the initial soil investigation due to refusal when the DPT rig encountered the underground concrete sleeve that formerly housed the fuel pipeline. Boreholes (DP-145 through DP-156) located directly west of the Pump House (Building 1033) were not collected due to ongoing construction and excavation performed by another subcontractor in the area.

The results of the initial set of DPT boring soil samples were reviewed to determine whether the extent of soil contamination exceeding NMED residential SSLs effective in 2011 (NMED, 2009) had been fully delineated. Soil sampling indicated the presence of VOCs and SVOCs at concentrations exceeding regulatory criteria. Sixteen step-out locations were identified to further delineate contamination at the FFOR in accordance with the Interim Measures Work Plan (USACE, 2011a). The 16 step-out locations (Figure 2-2) were based on an evaluation of the analytical data for soil samples collected from the 301 original locations in 2011.

2.5.3 First Round of Step-Out Samples (2012)

On March 1, 2012, NMED approved the Kirtland AFB-modified approach to complete DPT work in the area of excavation (west of Pump House), in addition to completing the first round of step-out locations (NMED, 2012b). The remaining initial soil investigation borings located west of the Pump House (Building 1033) (DP-132 through DP-144), and the five borings that had previously hit the concrete

sleeve (DP-105, DP-107, DP-108, DP-111, and DP-114) were installed and samples were collected during this sampling event, thus totaling 324 initial soil investigation borings.

During April 2012, the first round of step-out samples was collected from 15 of the 16 soil boring locations (DP-320 through DP-334) (refer to Table 2-1). One location was unable to be completed due to the presence of underground utilities. Step-out locations were situated 5 feet from where the exceedance was identified and were only collected at depths at which 2012 NMED residential SSLs were exceeded in the original sample location. Additionally, samples were only analyzed for the particular constituent that exceeded the 2012 NMED residential SSLs in the original sample. This procedure was mutually agreed upon during a working group meeting held between NMED, Kirtland AFB, and CB&I, and was followed for all step-out locations.

Following the initial soil investigation (324 locations) and first step-outs (15 locations), NMED revised the SSLs in June 2012 (NMED, 2012a), resulting in some more conservative SSL values and requiring re-evaluation of the analytical results from all previous soil boring locations. This evaluation identified 28 locations where additional step-out samples were necessary.

2.5.4 Second Round of Step-Out Samples (2013)

The second round of step-out samples was collected between June 3 and June 5, 2013. Twenty-four of the 28 step-out locations were advanced and sampled during this sampling event (Table 2-1). Five of these 24 locations (DP-336 through DP-340) that conflicted with underground soil vapor extraction (SVE) piping were moved approximately 3 feet north of their original location in accordance with the Former Fuel Off-Loading Rack Step-Out Conflicts letter addendum (USACE, 2013). The remaining four locations (DP-337, DP-355, DP-356, and DP-358) were in conflict with existing underground electrical utilities and were not collected due to health and safety concerns.

Procedures used to obtain these samples were the same as in previous rounds. Evaluation of the validated data from the second round of step-out samples identified four additional step-out locations.

2.5.5 Third Round of Step-Out Samples (2013)

The third round of step-out samples was collected between September 10 and September 12, 2013. All four step-out locations (DP-363 through DP-366) were advanced and sampled (Table 2-1). Results from the third step-out sampling event indicated that no analytes exceeded NMED residential SSLs (NMED, 2012a), and that additional rounds of step-outs were not necessary.

The 2011 through 2013 FFOR soil investigation frequency of detections and exeedances are summarized in Table 2-2. The complete analytical results table is provided in Appendix A. Field documentation for the 2011 through 2013 FFOR soil investigation, such as sample collection logs (SCLs), are included in the Quarterly Pre-Remedy Monitoring and Site Investigation Report for April – June 2014 (USACE, 2014a).

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3. REMEDIATION ACTIVITIES

Excavation activities at the FFOR were performed from June through September 2014. All field activities associated with the excavation were completed in accordance with the Interim Measures Work Plan (USACE, 2011a) and an internal excavation operation document developed by CB&I (CB&I, 2014). The main components of the excavation activities included the following:

- **Pre-Excavation Activities**—Verifying utilities, applying for and obtaining approved Kirtland AFB dig permit and fugitive dust permit from Albuquerque Environmental Health Department, conducting an initial survey to mark boundary of excavation, collecting samples of the backfill borrow source, and locating the buried SVE manifold piping located in the footprint of the excavation.
- **Source Removal**—Performing excavation activities, including using a trench shield shoring system, implementing safety procedures during excavation, and air monitoring operations.
- **Confirmation Soil Sampling**—Collecting confirmation and step-out confirmation soil samples from excavation grids.
- **Off-Site Disposal**—Generating waste manifests and transporting and disposing of contaminated soil at an approved off-site disposal facility.
- **Site Restoration**—Backfilling, compacting, grading, and conducting post-restoration inspection at the site.

3.1 Pre-Excavation Activities

Prior to the initiation of excavation activities, several pre-mobilization and site-preparation activities were completed, which included acquiring the required permits, coordinating with utility locating and clearance, performing an initial survey, collecting and analyzing characterization samples of the backfill borrow source, and locating the buried SVE manifold piping within the footprint of the excavation.

3.1.1 Permitting

Two dig permits (Air Force Form 103) were submitted to Kirtland AFB on June 9, 2014, one for the northern and one for the southern excavation areas. The dig permits were approved on June 19, 2014, and permit numbers were issued (FY1406-002 and FY1406-003). The approved dig permits are presented in

Appendix B. Prior to submitting the dig permits, excavation areas were delineated with white spray paint and marker flags. The excavation areas were determined using survey points from the soil investigation boring locations that exceeded the 2012 NMED residential SSLs.

Surface disturbances, including areas of excavation, soil stockpiles, and heavy equipment access routes at the FFOR totaled an area greater than ¾ acre and required submittal of a Fugitive Dust Permit. A Fugitive Dust Permit Application was submitted to the Albuquerque Environmental Health Department on May 12, 2014, prior to initiation of excavation activities, in accordance with 20.11.20 New Mexico Administrative Code. The permit application was approved, and the Fugitive Dust Permit (6621-C) was issued on May 14, 2014 (Appendix B).

3.1.2 Utility Clearance

Prior to the initiation of excavation activities, a utility clearance was undertaken at the FFOR excavation site by On-Point Land Surveying, Inc. on June 19, 2014. Kirtland AFB utility representatives also performed a utility locate in order to process the submitted dig permits. Figures 3-1 and 3-2 show the locations of the utility lines and are summarized below:

- An electrical line cuts across excavation grid DP-030, originating from the southwest corner of the SVE manifold; however, this line was determined to be inactive.
- Several lines run east to west on the eastern side of the main road leading to the current off-loading rack; however, these lines were not of concern since excavation grids located in the roadway were not excavated (discussed in Section 3.2.2).
- There are several electrical lines feeding into Building 1033. Four excavation grids lie directly adjacent to these utility lines (discussed in Section 3.2.2).
- An electrical line runs parallel to the roadway just south of excavation grid DP-193 and DP-201. This line is far enough away to not trigger any health or safety concerns.

- Gas, wastewater, and communication lines were not identified in the areas of excavation.
- An overhead telephone line runs over the northeastern part of the FFOR from north to south. On-Point Land Surveying verified that the line was dead and that the southern end had already been cut. The north end was cut as well as a secondary precaution prior to excavation activities.

In accordance with the approved Interim Measures Work Plan (USACE, 2011a), several excavation grids (DP-157, DP-163, DP-174, and DP-177) were not excavated due to existence of underground electric utility lines in close proximity (Figures 2-2 and 3-2). The Work Plan stated that "only hand digging is permitted within 3 feet of underground utilities. Once the underground utility is exposed, heavy equipment may be used, but is required to remain at least 3 feet from the exposed line." Not only was excavation in this area not feasible due to multiple underground utilities in close proximity, but shutting off the electrical line would severely impact Kirtland AFB as these areas are considered mission critical. The four excavation grids (DP-157, DP-163, DP-174, and DP-177) are also located between two aboveground fuel transfer lines that connect to two refueling pads and two aboveground storage tanks (2525 and 2526) to the Pump House (Building 1033) (Figures 2-1 and 3-2).

A relic power conduit was encountered during excavation of grids DP-035 and DP-044 at 2.5 feet bgs. The conduit was determined to be empty and was removed from the grid to allow for excavation to total depth.

3.1.3 Initial Survey

Prior to initiation of excavation activities, an initial land survey was conducted by High Mesa Consulting Group on June 24, 2014 to mark planned excavation. The soil investigation and step-out samples (collected from 2011 through 2013) that exceeded the 2012 NMED residential SSLs that were previously surveyed were marked. These locations were used as the center points of the excavation grids. Once the limits of the excavation were identified, excavation boundaries were surveyed and marked. Utility locations were also surveyed for use in a Geographic Information Systems mapping application.

Once excavation activities were complete, the confirmation sample locations and boundaries of the excavation were surveyed. This information is further discussed in Section 3.6.

3.1.4 Backfill Soil Sample Collection

Prior to the initiation of excavation activities, one composite backfill sample was collected from a designated borrow source area to determine that the potential backfill material was clean. The sample was collected from an embankment adjacent to an excavation pit located within the active Kirtland AFB Construction and Demolition Debris Landfill on June 20, 2014 (Figure 3-3). A composite sample was collected from the surface of the embankment and analyzed for TPH-gasoline range organics (GRO) (EPA Method 8015B), TPH-diesel range organics (DRO) (EPA Method 8015B), VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), RCRA metals (EPA Methods 6010B/7471A), pesticides (EPA Method 8081A), herbicides (EPA Method 8151A), polynuclear aromatic hydrocarbons (PAHs) (EPA Method 8270D SIM), and polychlorinated biphenyls (EPA Method 8082). The analytical results of this sample are discussed in Section 4.4. Two 5-gallon bucket samples were also collected from the embankment located adjacent to the Kirtland AFB active landfill for geotechnical proctor testing on July 7, 2014 (Figure 3-3). Bucket soil samples were analyzed to measure grain-size distribution (American Society for Testing and Materials [ASTM] C117-04/C136-06), plasticity (ASTM D4318-10), moisture-density relationship (ASTM D1557-09), and to determine soil classification (ASTM D2487-10) to ensure that backfill material met compaction requirements.

The borrow source soil was classified as well-graded sand with silt and was determined to be free of any debris, angular rocks, rocks greater than 3 inches in diameter, and other objectionable materials. Results of the borrow source proctor testing indicated that soil met compaction requirements. Compaction requirements and methodology are discussed in Section 3.5.1. Results for the proctor test are presented in Appendix C.

3.1.5 Location of SVE Manifold Piping

Prior to the initiation of excavation activities, the manifold connecting the SVE system to wells soil-vapor extraction well (SVEW)-01 through SVEW-09 was disconnected. The SVE manifold piping is located within the footprint of several excavation grids (Figure 3-1).

An excavator was used to locate and expose the buried SVE piping (approximately 18 inches bgs) at several locations along the length of the pipeline on June 25, 2014. Photo 3-1 shows the buried SVE piping coming off the SVE manifold. As observed from the exposed SVE piping, the piping angles to the north along the eastern segment. The 1.5-inch polyvinyl chloride (PVC) piping was left in place, as it was determined that it would not interfere with excavation activities.

3.2 Source Removal

On June 30 through September 11, 2014, excavation of contaminated soil from 48 preliminary grids and 13 step-out grids was conducted at the FFOR using Cat 320 and Komatsu PC-300 excavators. Preliminary grids located west of the Pump House were single 5-foot by 10-foot excavations dug to depths of 5, 10, 15, or 20 feet bgs depending on the depth of soil samples exceeding the 2012 NMED residential SSLs. For grids located south of the Pump House, the dimensions of the excavations were 10 feet by 20 feet and dug to depths of 5, 10, 15, or 20 feet bgs. Excavation grids were defined to remove soil with hazardous constituents greater than 2012 NMED residential SSLs, as identified during the initial soil investigation and subsequent step-out sampling events (discussed in Section 2.5). Based on the soil investigation data, the volume of impacted soil requiring excavation was estimated to be 1,700 cubic yards. Confirmation sample results exceeding regulatory criteria resulted in additional step-out excavations. A total of 2,340 cubic yards was excavated at the site (discussed in Section 3.2.1), which included removal of loose material that accumulated in excavations as a result of wall collapses, and some areas where benching and ramps were dug to accommodate the movement of the excavation equipment. Several grids were unable to be excavated due to safety concerns (discussed in Section 3.2.2).

Excavation began at borings DP-016 and DP-017, located on the western edge of the excavation located south of the SVE manifold (Figure 3-4). Shallow excavation grids were completed first. In many instances, contiguous grids were dug at the same time, and confirmation soil samples were collected within the contiguous grids at required intervals. Figures 3-1 and 3-2 show an overview of the excavated areas located west and south of the Pump House (Building 1033). A more detailed presentation of the excavation areas is shown on Figures 3-4 through 3-7 and illustrates the final excavation boundaries, including benched or ramped areas; confirmation and step-out sample locations; and analytical results for confirmation and step-out locations where hazardous constituents exceeded 2012 NMED residential SSLs. Excavation areas consisting of contiguous grids located west of the Pump House are shown on Figures 3-4 and 3-5. Excavation grids located south of the Pump House are shown on Figures 3-6 and 3-7. The following subsections describe excavation procedures and monitoring activities that were conducted during 2014 FFOR field activities.

3.2.1 Step-Out Excavations

Both deeper and lateral step-out excavations were required to remove contamination that was detected in confirmation soil samples to a depth of 20 feet bgs. Step-out excavation grids were dug to the total length and depth of the excavation grid, and a minimum of at least half the total width of the original excavation grid. For example if a grid required a step-out sample to the south and the original grid was 5 feet wide, the step-out excavation was completed to the same depth and 5 feet to the south with a width of at least 2.5 to 3 feet. This ensured that the step-out was excavated laterally to the next line of clean DPT boreholes where previous samples had already been collected to confirm a clean location. Additional confirmation samples (referred to as step-out confirmation samples) were collected from step-out excavations at the same depth as the exceedance that drove the step-out, and were analyzed only for the detected chemical group(s) that exceeded 2012 NMED residential SSLs in the original excavation sample. Figures 3-4 through 3-6 show the step-out excavation grid boundaries. The 13 step-out excavations are summarized below.

Only one vertical step-out excavation was required. One floor sample associated with DP-101 (FFOR-EXC-61), collected at 10 feet bgs, exceeded the 2012 NMED residential SSL for benzo(a)pyrene (Figure 3-5). The excavation grid was stepped out to the same width and length and down an additional 10 feet bgs, and one floor sample (FFOR-EXCSO-11) was collected from 20 feet bgs and analyzed for PAHs only (analytical results are discussed in Section 4.3).

Twelve confirmation sidewall samples collected from various grids exceeded respective 2012 NMED residential SSLs for SVOCs (Table 3-1). Excavations containing these exceedances were stepped-out to the total length and depth (except for the vertical step-out discussed above), and half the total width of the original excavation grid (see discussion in Section 3.2 first paragraph). Several PAH exceedances were detected in the north wall sample (FFOR-EXC-63) collected from excavation grid DP-084 (Figure 3-5). This grid was not stepped-out as discussed below in Section 3.2.2.

3.2.2 Exceedance Areas not Excavated

Several areas within the original excavation and step-out footprints were identified as having existing site infrastructure associated with the current aviation fuel off-loading rack or underground utilities. These areas were not excavated. These areas are shown on Figures 3-1 and 3-2, and are summarized below:

- The northeast corner of the preliminary excavation area west of the Pump House (Building 1033) was not excavated (DP-082, DP-083, and DP-085) due to the presence of two existing wells (SVEW-04 and SVEW-05) located directly northeast of the grids.
- Several PAH exceedances, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, were detected in the north wall sample (FFOR-EXC-63) collected from excavation grid DP-084 (Figure 3-5). This grid was not stepped-out to the north due to the location of the existing wells SVEW-04 and SVEW-05 (Photo 3-2). The grid could not be stepped out without compromising the existing well that is used for quarterly monitoring.
- Benzo(a)pyrene exceeded the NMED residential SSL in the northern wall sample (FFOR-EXC-35) collected from excavation grids DP-095 and DP-096. Tension cracks were observed radiating from the northern excavation boundary associated with grids DP-095 and DP-096 (Photo 3-3) towards

existing well SVEW-01. The grid could not be stepped out to the north without compromising the existing well that is used for quarterly monitoring.

- Only the southern half of excavation grid DP-024 was excavated due to the location of existing soil-vapor monitoring well SVM-09 (Photo 3-4). The grid could not be excavated without compromising the existing well that is used for quarterly monitoring.
- The area just west of the Pump House (Building 1033), encompassing six small areas of contaminated soil (DP-106, DP-116, DP-119, DP-121, DP-125, and DP-130), was not excavated due to their location underneath the main road used by trucks off-loading fuel at the current off-loading racks. Cutting off access to this road would negatively affect the delivery of fuel to the BFF and impact Kirtland AFB missions.
- The area just south of the Pump House (Building 1033), encompassing four small areas of contaminated soil (DP-157, DP-163, DP-174, and DP-177), was not excavated due to existing underground electric utility lines and existing aboveground infrastructure associated with the aviation fuel off-loading rack.
- An additional area southwest of the Pump House (Building 1033) was also identified as a "no-dig" zone due to existing infrastructure of the current aviation fuel off-loading rack; however, no soil contamination was found in this area during the FFOR soil investigation, and therefore, excavation was not required in this area.

In areas where excavation was not possible due to the existence of utilities or existing infrastructure, it is recommended that a risk assessment be conducted to determine if concentrations in soil pose unacceptable risk to human health and the environment.

3.2.3 Trench Shoring Systems

Trench shield shoring systems provided by Trench Shoring Services, Inc. were used during excavation activities to prevent cave-ins of sidewalls, and to avoid the need for benching in excavation areas exceeding 5 feet bgs. The individual shoring system consisted of two steel sidewalls (each are 4 inches wide and include two steel walls separated by through-wall spreader sockets) at various stackable heights (4 and 8 feet high) to achieve the required depths, 5-inch-wide steel spreader bars at differing lengths to accommodate the dimensions of the excavation, and steel end plates for complete closure of the system and personal protection. Photo 3-5 shows an assembled trench box. Guardrails capable of supporting 200 pounds of force were installed along the length of the trench boxes in excavations requiring entry. If the trench box was flush with the ground surface or was at a height below the knees of field personnel,

guardrails supplied by Trench Shoring Services, Inc. were installed. If the excavation did not require entry by field personnel, and/or the end shields were at an adequate height to prevent tripping, guardrails were not installed.

Excavations were dug down to a depth determined to be safe, where sidewalls would remain intact (approximately 5 feet bgs), and the trench shoring system was installed. Excavation locations with a total depth of 5 feet bgs did not require trench shoring and instead were benched to prevent sidewall collapse and allow for safe entry. The stackable trench shoring systems were assembled, installed, and removed in sections using a rigging system attached to the excavator bucket (Photo 3-6). After the trench shield system was installed, all remaining soil was excavated to total depth within the box (Photo 3-7). Soil ramps leading from the ground surface into the excavation were constructed using the excavator to allow access to otherwise inaccessible areas. The entire trench shield system was also advanced to final depth using the excavator bucket to push the box down after soil was removed from the bottom of the excavation.

3.2.3.1 Trench System Rigging

The trench shoring systems were installed using rigging attached to an excavator arm/bucket. Chokers that attached latching devices on each corner of the trench box to the excavator arm were rated for 20,000 pounds. Two spotters were responsible for holding tag lines that were attached to the trench box during installation in the excavation.

All rigging was performed in accordance with CB&I policy and complied with the requirements of Section 16.S of the USACE *Safety and Health Requirements Manual, Engineer Manual 385-1-1* (USACE, 2008). The lift supervisor who was certified in rigging oversaw all trench box activities. For each day that rigging activities took place, the lift supervisor completed a Lift Plan Worksheet and Pre-Lift Checklist in accordance with the addendum to the Accident Prevention Plan (USACE, 2014b).

3.2.4 Fall Protection

A full-body construction harness and self-retracting lifeline was worn by field personnel entering an excavation or working adjacent (3 to 4 feet from edge) to an excavation grid at depths of 4 feet bgs or greater. An emergency retrieval system was also used (Photo 3-8) and was securely anchored to vehicle hitches when in use. The fall-arrest device was also secured when working around open excavations (Photo 3-9). Confirmation samples collected at depths greater than 4 feet bgs were collected using a jar attached to PVC piping. However, the fall-arrest assembly was still required to be worn for sample collection around the edge of the excavation (Photo 3-10). Field personnel collecting confirmation samples at depths less than 4 feet used ladders to access the excavation and did not require fall protection.

All components of the fall-arrest assembly were inspected on a daily basis. All personnel exposed to fall hazards received training by the CB&I Health and Safety Manager. A Fall Rescue Plan was developed for excavation activities at the FFOR and was reviewed by all personnel.

3.2.5 Perimeter Protection

Perimeter protection was installed in accordance with Section 25.B.01b of the USACE *Safety and Health Requirements Manual, Engineer Manual 385-1-1* (USACE, 2008). Plastic fencing, barricades, and flagging were installed around all open excavations west of the Pump House (Building 1033) to control unauthorized access, and to cordon off potentially hazardous zones around the excavations (Photo 3-11). Temporary plastic fencing secured with T-posts driven into the ground was installed around open excavations that were 5 feet deep or less. A temporary chain-link fence was installed on the eastern edge of excavation areas located west of the Pump House (Building 1033) to prevent unauthorized vehicle access (Photo 3-12). The temporary chain-link fence was protected by concrete jersey barriers that were placed on the access side of the fence. Signage was posted on the temporary chain-link fencing, plastic fencing, and barricades (Photos 3-12 and 3-13). Jersey barriers, barricades, and flagging were installed around the perimeter of open excavations located south of the Pump House (DP-193, DP-201, DP-213,

and DP-362) (Photo 3-14). As mentioned in the previous section, all personnel working in the zone between the fencing/barricades and the open excavation were required to wear the fall-arrest assembly.

Integrity inspections were conducted on a regular basis for all barriers, fencing, and signage. Repairs and replacements were made as needed.

3.2.6 Passive Air Monitoring

Passive downwind air monitoring using a photoionization detector (PID) and four-gas meter was performed by the CB&I Health and Safety Officer during all excavation activities. Downwind monitoring using a dust meter was also performed when blowing dust was evident. Fugitive dust was wetted down, as necessary, based on visual assessment and dust monitoring.

Prior to any worker entering the excavation, the CB&I Health and Safety Officer performed real-time air monitoring using both a PID (calibrated for benzene) and a four-gas meter (flammable/combustible gases, oxygen, carbon monoxide, and hydrogen sulfide) within the excavation. Although benzene concentrations were measured to be low in soil at the FFOR, personnel had the potential to be exposed through vapor inhalation. Once the excavation atmosphere was monitored for the required duration, the Health and Safety Officer reviewed the data to determine if the excavation was safe for entry. The PID and four-gas meter were left in the excavation to monitor the atmosphere throughout the entire duration while personnel were working in the excavation. Benzene concentrations in passive air never reached the threshold limit value-short term exposure limit of 2.5 parts per million during excavation activities.

3.2.7 Soil Stockpiles

Contaminated soil excavated during the FFOR field activities was stockpiled within the boundaries of the BFF. Excavated soil was loaded into small end-dump trucks directly from the excavation (Photo 3-15). The soil was then added to the designated polyethylene-lined stockpile located in the northern excavation

area (Figure 3-1). Backfill material transported from the clean borrow source located within the Kirtland Construction and Demolition Debris Landfill was also stockpiled at designated areas located within the BFF. A spotter was present at all times in the stockpile area during transportation of soil to designated areas.

Contaminated soil stockpiles were lined and covered with 6-mil polyethylene sheeting. The upper and lower layers of sheeting were rolled together and stabilized with sandbags to prevent any soil removal by wind. Integrity of the sheeting and sandbags was inspected by field personnel on a daily basis, and this information is recorded on field activity daily logs.

Clean backfill soil stockpiles were wetted down using a water truck as necessary for fugitive dust control.

Approximately 6 inches of soil located beneath the polyethylene sheeting that covered the contaminated soil stockpile was excavated during removal of the final contaminated stockpile, thus removing any spillage that may have occurred during excavation activities. The area containing the contaminated soil stockpile was backfilled with clean soil from the on-base borrow source and graded to match the existing terrain.

3.3 Confirmation Sample Collection

Confirmation soil samples were collected from the four sidewalls and floor of an excavation grid, or contiguous grids, once the desired depth was reached. Sidewall confirmation samples were collected at depths below ground surface equal to half the total depth of the excavation. In contiguous excavations, sidewall samples were collected at intervals of 25 linear feet apart or less. One floor sample was collected for every 20-linear foot by 25-linear foot excavation area. Soil samples located at depths greater than 4 feet bgs were collected by lowering a PVC pole with a jar secured to the end of it to the desired depth on the sidewall or floor of the excavation (Photo 3-10). Once the desired amount of soil was collected

with the jar, the jar was emptied into an aluminum pan for sampling. Personnel wore a harness and were connected to an emergency extraction system while collecting sidewall and floor samples that were greater than 4 feet bgs. Excavations less than 4 feet deep were benched for entry and did not require hookup to the emergency extraction system (Photo 3-16). Confirmation soil samples were analyzed by Hall Environmental Analysis Laboratory, Inc. (Hall) for VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), TPH-DRO (EPA Method 8015B), TPH-GRO (EPA Method 8015B), and total lead (EPA Method 6010) (Table 3-1). Sample collection logs are provided in Appendix D, and sample results are discussed in Section 4.2.

Samples collected for analysis of VOCs and TPH-GRO were taken directly from the aluminum pan using TerraCore® samplers prior to any homogenization. Samples collected for SVOCs, TPH-DRO, and total lead were then homogenized in an aluminum pie pan using a plastic scoop and placed into clean 8-ounce sample jars provided by the laboratory. The samples were then labeled and placed into a laboratory-provided cooler with ice. Sample information was recorded on SCLs and added to the chain-of-custody form. Prior to transferring the samples to Hall, the SCLs and chain-of-custody were cross-checked by a separate member of the field team. CB&I maintained custody of the samples at all times until relinquished to Hall. Hall picked up samples, as needed, on the same day that the samples were collected. Field documentation, including field activity daily logs, SCLs, and chain-of-custody forms, is provided in Appendix D.

Disposable sampling equipment such as aluminum pans and plastic sample scoops was used for each confirmation soil sample. Decontamination of disposable sampling equipment was not required, as new pans, scoops, gloves, and jars for soil retrieval were used for each sample. As a result, equipment rinse blanks were not collected.

3.3.1 Step-Out Confirmation Samples

Thirteen excavation grids/contiguous grids were stepped out and thirteen step-out confirmation samples were collected as a result of sidewall and floor confirmation samples exceeding respective 2012 NMED residential SSLs for lead, SVOC, or VOC. Additional confirmation soil samples (step-out samples) were collected from the step-out excavations at the same depth as the exceedance that drove the step-out. Drivers for step-out excavations were lead, SVOC, or VOC exceedances. Step-out confirmation sample collection followed the same procedures as described in Section 3.3.

Analytical results for the step-out confirmation samples are presented in Appendix E and discussed in Section 4.3. Frequency of detection and exceedances are presented in Table 3-2. Step-out sample locations and excavation boundaries are shown on Figures 3-4 through 3-7.

3.4 Off-Site Disposal

Transportation of the excavated petroleum-contaminated soil began on July 7, 2014, and continued throughout excavation activities. Approximately 16 to 20 cubic yards of soil was transported per dump truck for a total of approximately 2,340 cubic yards (3,684 tons) of soil disposed during excavation activities. Stockpiled contaminated soil was loaded into each dump truck by a front-end loader and was securely covered for transportation. The excavated soil was considered petroleum-contaminated soil, or nonhazardous special waste, and was disposed of off-site at the Valencia Regional Landfill in Los Lunas, New Mexico by Casias Trucking. The Construction and Demolition Debris Landfill located on Kirtland AFB does not allow disposal of special waste at its facility based on their acceptance criteria (U.S. Air Force, 2009). Off-site disposal documentation is presented in Appendix D.

3.5 Site Restoration

Following completion of excavation activities, each excavation area was backfilled and compacted in accordance with applicable City of Albuquerque Construction Codes and Kirtland AFB requirements.

Once backfilling and compaction activities were complete, the entire excavation site was restored to match the existing grade. The following subsections discuss site post-excavation and restoration activities.

3.5.1 Backfill and Compaction

Following excavation of contaminated soil at the FFOR, the excavated areas were backfilled with clean soil transported from the Kirtland AFB borrow source. Individual excavation grids or contiguous grids were backfilled using 12-inch soil lifts. Each lift was compacted using a 24,000-cycles-per-minute hydraulic plate compactor attached to the stick of a Cat 320 excavator (Photo 3-17). The hydraulic plate was passed over each 12-inch lift for a minimum of two times, until compaction was visually acceptable. Potable water was added to the backfill as necessary to improve compaction.

Per agreement with the City of Albuquerque, USACE, and Kirtland AFB, rock that was 3 to 6 inches in diameter mixed with ⅛-inch gravel to fill pore spaces was placed from depths of 15 to 20 feet bgs in grids or contiguous grids that were excavated down to 20 feet bgs. The remainder of the grid was backfilled with clean soil from the Kirtland AFB borrow source. Rock and gravel placement was not required for excavations that were 15 feet or shallower.

The backfill soil was density-tested using a nuclear density gauge to ensure that the backfill met the required compaction specification outlined in the City of Albuquerque Construction Code 204.3.1 (Standard Specification for Public Works Construction, 1986), which specifies compaction in 8-inch lifts to 90 percent dry density. A variance to use 12-inch soil lifts was approved by Kirtland AFB Civil Engineering. Compaction testing methodology and the results are discussed below.

3.5.1.1 Compaction Testing

Based on the locations and depths of the excavation grids, 10 zones were identified for compaction testing. Each zone has an area of less than 2,500 square feet and is comprised of contiguous excavation

grids. The exact location of each compaction test within each zone was determined based on field conditions and is recorded in the field daily activity logs. Per agreement with USACE, initial compaction testing was performed on two 20-foot-deep grids (DP-023 cluster and DP-066 cluster) and one 15-foot-deep grid (DP-259). A total of 39 lifts were tested during initial compaction testing. All remaining excavation zones were backfilled to 4 feet bgs to provide an even compaction surface. The upper 4 feet of each zone was then backfilled in single 12-inch lifts, and each lift was tested to confirm near surface compaction.

Compaction testing conformed to the ASTM Method D6938 and was performed on site by AMEC Environment & Infrastructure, Inc. Testing was conducted by inserting the nuclear density gauge approximately 6 inches into the desired 12-inch lift (Photo 3-18). Readings were collected, and the percent of compaction was calculated in the field to determine if compaction requirements had been met. Results of the compaction testing performed in each compaction zone demonstrated that backfill met the 90 percent compaction standard. Field compaction test reports are presented in Appendix C. Compaction test results are summarized in Table 3-3.

3.5.2 Grading

On September 18, 2014, after all zones were backfilled and compaction test results were confirmed, the excavation site was graded to match the existing grade. Site stabilization measures, such as reseeding, were not required at the excavation site.

3.5.3 Inspection and Demobilization

Following the completion of the backfilling and compaction activities, and grading of the site, CB&I conducted a final inspection of the site. The excavated areas appeared level with no areas of settlement evident. The remaining heavy equipment was dry-decontaminated on September 18, 2014, and picked up by the applicable rental companies on September 19, 2014.

3.6 Post-Excavation Site Survey

Following the restoration of the excavated areas, a land survey was conducted on September 25, 2014. The survey was conducted by High Mesa Consulting Group, which established the northings, eastings, and elevations of all confirmation soil sample locations and excavation grid boundaries. Location verification and determination were performed by a State of New Mexico-registered professional land surveyor.

The horizontal coordinates of each survey point were determined to the nearest 0.01 foot and referenced to the New Mexico State Plane Coordinate System. Horizontal coordinates are based on the New Mexico State Plan Coordinates System, Central Zone (North American Datum of 1983), as published by the National Geodetic Survey. Survey points are also provided in the Universal Transverse Mercator coordinate system. Elevations were determined to the nearest 0.01 foot and referenced to the 1988 National Geodetic Vertical Datum, as obtained from permanent benchmarks.

Survey data collected at the FFOR as part of excavation and confirmation soil sampling activities are presented in Appendix F.

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4. EXCAVATION RESULTS

4.1 Field Observations

Field screening was performed for organic vapors using a PID for every soil sample. The PID headspace readings were taken from jars filled with soil collected from each soil sample and then covered with aluminum foil. Each jar was allowed to sit for approximately 5 minutes prior to taking the headspace reading. The maximum PID measurement was recorded at sample location FFOR-EXC-68 (associated with DP-037 and DP-038) (Figure 3-4) from a depth of 20 feet bgs (floor sample) at 2,698 parts per million. PID readings were recorded on the SCLs for each sample location and are provided in Appendix D.

4.2 Soil Confirmation Analytical Results

Confirmation soil samples were collected and analyzed for VOCs (EPA Method 8260B), SVOCs (EPA Method 8270C), TPH-GRO (EPA Method 8015D), TPH-DRO (EPA Method 8015D), and lead (EPA Method 6010B). Hall performed the analytical methods and provided the results electronically. Analytical results for the confirmation soil samples are provided in Appendix E. To determine if further step-out excavations were required, confirmation soil analytical results were compared to NMED residential SSLs (NMED, 2012a). Table 3-2 summarizes the results for all detected analytes, and Appendix E contains the complete analytical results for the confirmation soil samples including sample identification, sample data, 2012 NMED residential SSLs, validation qualifiers, and detection limits. Excavation boundaries, confirmation and step-out confirmation sample locations, confirmation results exceeding regulatory criteria, and step-out sample results are shown on Figures 3-4 through 3-7.

4.2.1 VOCs

Eighteen VOCs were detected in confirmation soil samples collected during excavation activities at the FFOR (Table 3-2). The resultant concentrations of 18 detected analytes were well below their respective

2012 NMED residential SSLs. All other VOCs were below laboratory reporting limits in all confirmation soil samples.

4.2.2 SVOCs

Twenty SVOCs were detected in confirmation soil samples collected during excavation activities at the FFOR (Table 3-2). The resultant concentrations of 15 detected analytes were well below their respective 2012 NMED residential SSLs. The remaining five analytes were detected at concentrations exceeding their respective 2012 NMED residential SSLs. The highest concentrations of each analyte exceeding its respective 2012 NMED residential SSL were detected at confirmation sample location FFOR-EXC-06, which is located on the south sidewall in the grid excavated from DP-035 (Figure 3-4), Confirmation sample location FFOR-EXC-06 was subsequently stepped out as a result of the SVOC exceedances, and a step-out confirmation sample was collected (FFOR-EXCSO-02). Step-out confirmation sample results are discussed in Section 4.3. The analytes exceeding respective 2012 NMED residential SSLs in FFOR-EXC-06 are discussed below.

Benzo(a)anthracene was detected in 32 confirmation soil samples, exceeding the 2012 NMED residential SSL of 1.48 milligrams per kilogram (mg/kg) in three of those samples. The maximum concentration of benzo(a)anthracene found in confirmation soil samples was 11J- mg/kg, which was collected from a depth of 2.5 feet bgs (FFOR-EXC-06).

Benzo(a)pyrene was detected in 22 confirmation soil samples, exceeding the 2012 NMED residential SSL of 0.148 mg/kg in 16 of those samples. The maximum detected concentration of benzo(a)pyrene was 13J- mg/kg, which was collected from a depth of 2.5 feet bgs (FFOR-EXC-06).

Benzo(b)fluoranthene was detected in 26 confirmation soil samples, exceeding the 2012 NMED residential SSL of 1.48 mg/kg in three of those samples. The maximum detected concentration of benzo(b)fluoranthene was 16J- mg/kg, which was collected from a depth of 2.5 feet bgs (FFOR-EXC-06).

Dibenzo(a,h)anthracene was detected in eight confirmation soil samples, exceeding the 2012 NMED residential SSL of 0.148 mg/kg in five of those samples. The maximum detected concentration of dibenzo(a,h)anthracene was 1.9J- mg/kg, which was collected from a depth of 2.5 feet bgs (FFOR-EXC-06).

Indeno(1,2,3-cd)pyrene was detected in 19 confirmation soil samples, exceeding the 2012 NMED residential SSL of 1.48 mg/kg in three of those samples. The maximum detected concentration of indeno(1,2,3-cd)pyrene was 5.9J- mg/kg, which was collected from a depth of 2.5 feet bgs (FFOR-EXC-06).

4.2.3 Total Petroleum Hydrocarbons

TPH-DRO and TPH-GRO were detected in several confirmation soil samples at concentrations exceeding the 2012 NMED residential TPH screening guideline of 1,000 mg/kg for jet fuel (NMED, 2012c) (Table 3-2). TPH-DRO was detected in 31 out of 80 confirmation soil samples. TPH-DRO results exceeded the 2012 NMED residential TPH screening guideline for jet fuel in 12 samples with a maximum concentration of 11,000 mg/kg at a depth of 20 feet bgs (FFOR-EXC-47) (Figure 3-4). TPH-GRO was detected in 26 out of 80 confirmation soil samples. TPH-GRO results exceeded the 2012 NMED residential TPH screening guideline for jet fuel in six samples with a maximum concentration of 5,000 mg/kg at a depth of 20 feet bgs (FFOR-EXC-66) (Figure 3-5).

TPH as oil-range organics (ORO) was detected in three out of 80 confirmation soil samples. TPH-ORO was detected with a maximum concentration of 230 mg/kg at a depth of 10 feet bgs (FFOR-EXC-63), which is below the 2012 NMED residential TPH screening guideline of 1,000 mg/kg for jet fuel.

Per NMED directive (NMED, 2010c), installation of step-out soil borings and grids requiring excavation was based on concentrations of individual petroleum-based constituents that exceeded 2012 NMED residential SSLs, not on TPH concentrations; therefore, TPH results exceeding the NMED TPH screening guideline for jet fuel (NMED, 2012c) are not shown on Figures 3-4 through 3-7.

4.2.4 Lead

Lead is a natural constituent of most soil types. It was detected in all 80 confirmation soil samples with a maximum concentration of 80 mg/kg (FFOR-EXC-66) collected at a depth of 20 feet bgs. The maximum detected concentration of lead was well below the 2012 NMED residential SSL of 400 mg/kg.

Lead was the only metal analyzed for during both the initial soil investigation conducted from 2011 through 2013, and during excavation confirmation and step-out sampling. This is in accordance with the NMED directive letters dated August 6, 2010 (NMED, 2010b) and December 10, 2010 (NMED, 2010c), and the NMED-approved Interim Measures Work Plan (USACE, 2011a).

4.3 Step-Out Confirmation Analytical Results

Excavation grids were stepped out for sidewall and floor confirmation soil samples that exceeded the 2012 NMED residential SSLs. If a floor sample collected at a depth of 20 feet bgs exceeded the NMED residential SSL, the excavation was not stepped down in accordance with the April 2, August 6, and December 10, 2010, NMED directive letters and the NMED-approved Interim Measures Work Plan (USACE, 2011a), limiting the excavation to 20 feet bgs.

Step-out confirmation soil samples were analyzed for PAHs (EPA Method 8270 SIM) only, as PAHs were the only analytes that exceeded NMED residential SSLs in confirmation sample locations. EPA Method 8270 SIM was used due to its lower detection limit. Step-out soil samples were compared to 2012 NMED residential SSLs. Table 3-2 summarizes the results for all detected analytes, and Appendix E contains the complete analytical results for the step-out confirmation soil samples, including sample identification, sample data, NMED residential SSLs, validation qualifiers, and detection limits. Excavation boundaries, confirmation and step-out confirmation sample locations, and results exceeding regulatory criteria are shown on Figures 3-4 through 3-7.

4.3.1 Polyaromatic Hydrocarbons

All 18 PAHs were detected in step-out confirmation soil samples collected during excavation activities at the FFOR. Sixteen of the PAHs did not exceed their respective 2012 NMED residential SSLs in these samples. The PAHs that exceeded regulatory limits in step-out confirmation soil samples were benzo(a)pyrene and dibenzo(a,h)anthracene. This required the primary step-outs to be expanded a second time.

Benzo(a)pyrene was detected in six step-out confirmation soil samples, exceeding the 2012 NMED residential SSL of 0.148 mg/kg in one of those samples with a concentration of 0.95J+ mg/kg. The step-out confirmation soil sample was collected from a depth of 2.5 feet bgs (FFOR-EXCSO-01) (Figure 3-4).

Dibenzo(a,h)anthracene was detected in seven step-out confirmation soil samples, exceeding the 2012 NMED residential SSL of 0.148 mg/kg in two of those samples (FFOR-EXCSO-01 and FFOR-EXCSO-12) (Figure 3-4). The maximum detected concentration of dibenzo(a,h)anthracene was 0.32J+ mg/kg collected from a depth of 2.5 feet bgs (FFOR-EXCSO-01).

The excavation grid at sample location FFOR-EXCSO-01 was stepped-out a subsequent time due to the two PAH exceedances detected in the step-out sample. The second step-out (FFOR-EXCSO-04) was extended another 5 feet in length by 10 feet in width by 5 feet in depth from the primary step-out. The two step-outs at location FFOR-EXCSO-01 and FFOR-EXCSO-04 are associated with the original soil investigation borings DP-016 and DP-017 (Figure 3-4). Detected analytes in the second step-out sample (FFOR-EXCSO-04) were all below their respective 2012 NMED residential SSLs.

The excavation grid at sample location FFOR-EXCSO-12 was also stepped out a second time due to a PAH exceedance detected in the primary step-out sample. The second step-out (FFOR-EXCSO-13) at FFOR-EXCSO-12 was extended another 5 feet in length by 5 feet in width by 15 feet in depth from the primary step-out. The two step-outs at location FFOR-EXCSO-12 and FFOR-EXCSO-13 are associated with the original soil investigation boring DP-061 (Figure 3-5). Detected analytes in the second step-out sample (FFOR-EXCSO-13) were all below their respective 2012 NMED residential SSLs.

4.4 Backfill Soil Sample

The backfill soil sample was collected and analyzed for VOCs (EPA Method 8260B), SVOCs (EPA Method 8270C), PAHs (EPA Method 8270C SIM), TPH-GRO (EPA Method 8015D), TPH-DRO (EPA Method 8015D), RCRA metals (EPA Method 6010B/7471A), hexavalent chromium (EPA Method 7196A), polychlorinated biphenyls (EPA Method 8082), pesticides (EPA Method 8081), and herbicides (EPA Method 8151). Hall and their subcontractors, Anatek Laboratories, Inc. and ESC Laboratory, performed the analytical methods, and Hall provided the results electronically. Barium, chromium, and lead were the only analytes detected in the backfill soil sample, well below respective 2012 NMED residential SSLs. All other analytes were below laboratory reporting limits. Full analytical results for the backfill soil sample are provided in Appendix E.

4.5 Investigation-Derived Waste

Excavated waste soil was the only nonhazardous investigative-derived waste (IDW) source generated during excavation activities. Disposable sampling equipment, such as aluminum pans and plastic scoops, was used; therefore, decontamination was not necessary.

Analytical data from contaminated soil at the FFOR have been previously provided to the Valencia Regional Landfill during disposal of the DPT soil investigation waste soil, thus IDW soil samples were not collected as this soil was from the same source area. Additional waste soil characterization samples were not required prior to transportation of waste soil to the Valencia Regional Landfill. Off-site disposal procedures are discussed in Section 3.4.

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5. QUALITY ASSURANCE/QUALITY CONTROL RESULTS

5.1 Data Quality Assurance

CB&I developed project-specific data quality objectives (DQOs) that were designed to ensure data of adequate quality were collected to support project decisions. The DQOs were developed in accordance with federal, state, and local regulations, such as *Guidance on Systematic Planning Using the Data Quality Objectives Process,* EPA QA/G4 (EPA, 2006) and documented in the project Quality Assurance Project Plan (USACE, 2011c).

5.2 Field Quality Assurance

Daily inspections were conducted on the sediment control measures that were installed at all soil stockpiles. The stockpile areas were lined and covered with 6-mil polyethylene sheeting while awaiting disposal determination. The sheeting was anchored with sandbags to prevent it from being removed by wind. Both the integrity of the sand bags and polyethylene sheeting were inspected daily.

Aerial lifts and rigging used to hoist and transfer trench boxes using a hydraulic excavator were inspected daily and a Lift Plan Worksheet was completed by a certified Lift/Rigging Supervisor for each day that lifts and rigging were used. Lift capacity and sling load capacity were calculated and recorded in the Lift Plan Worksheet, and a pre-lift checklist was completed. All heavy equipment used during excavation activities was inspected on a daily basis.

5.3 Data Quality Control

Hall Environmental performed the measurement quality objectives (MQO) specified for each analytical method during analysis of the soil samples. Quality control measurements are typically made on laboratory-prepared, standard materials and samples to monitor MQOs for accuracy and precision. The laboratory quality control checks included the following:

- Calibration checks and verifications
- Calibration blanks
- Limit of quantitation (LOQ) and limit of detection (LOD)
- Laboratory control sample and laboratory control sample duplicates
- Matrix spike (MS) and matrix spike duplicate (MSD) samples
- Duplicate samples
- Method blank samples
- Relative percent differences (RPDs)

5.3.1 Data Evaluation

Analytical data results for the confirmation and step-out soil samples were provided in electronic format. An EPA Level III data review was performed on analytical results for each sample delivery group, or Level III report. Analytical data produced electronically included Level III data report files in portable document format and the electronic data deliverable (EDD) format.

Data review and validation were documented, and any validation qualifiers applied were entered into the EDD. The Data Validation Summary Report is included in Appendix G. Once the EDD was reviewed and edited, the data were uploaded into the ShawView database. The database was used to query data for report preparation and to generate report tables.

5.3.2 Data Usability

The analytical LOQs and LODs actually achieved at Hall during analysis of the confirmation and step-out soil samples were evaluated against applicable MQO requirements provided in the Quality Assurance Project Plan (USACE, 2011c). When chemical analyses showed quantified or detected but estimated results (J-qualified), the MQO LOQ and LOD requirements are considered to be met. However, when chemical analyses do not detect the analyte of interest, then applicable LOQs and LODs should meet MQO requirements.

LOQ and LOD can be elevated when analytical extracts of digestions are diluted at analysis. The laboratory may choose to dilute the sample for a number of reasons. Generally, dilutions are performed

when there are high concentrations of target analytes in the sample and dilution is necessary to bring the tested concentrate down to the calibration range on the instrument, or when high concentrations for nontarget compounds interfere with the analysis. The non-target compounds need not be identified.

The technical completeness was calculated at 100 percent for all methods, exceeding the 95 percent technical-completeness requirement. Therefore, the project DQOs were achieved for the 2014 FFOR soil sampling event, and all data were usable.

5.4 Field Quality Control

Eight field duplicate and five MS and MSD soil samples were collected during excavation activities at the FFOR, including both confirmation and step-out soil samples. The field duplicate and MS/MSD samples were collected from the aluminum pie pan in the same manner as described in Section 3.3. Field duplicate and MS/MSD samples were analyzed for the same analyses as the parent samples. The analytical results for field duplicate samples are included in the complete analytical results table provided in Appendix E.

Paired data and RPD precision measures are presented in the Data Validation Summary Report (Appendix G) and summarized in Table 4 of Appendix G. RPD is calculated when analytes are detected above the LOQ in both the parent and field duplicate samples, and the results are not qualified as estimated values during data validation.

As shown in Table 4 in Appendix G, the RPD for lead at location FFOR-EXC-70 was 55.2 percent slightly exceeding the precision control limit of 50 percent. The field duplicate results for lead, VOC, SVOC, and PAH are acceptable and between 4.7 and 39.2 percent. The field duplicate results indicate overall acceptable sampling and analytical precision for the analyses.

5.5 Variance and Deficiency Management

There were no Field Work Variances prepared for the excavation activities at the FFOR. No nonconformance issues or corrective actions were identified.

6. SUMMARY AND RECOMMENDATIONS

Excavation activities were conducted in accordance with the NMED-approved Interim Measures Work Plan (USACE, 2011a) and an internal CB&I excavation operation document (CB&I, 2014). The objective of the FFOR excavation was to remove and properly dispose of VOC-, SVOC-, and lead-contaminated soil having concentrations that exceeded the 2012 NMED residential SSLs to a depth of 20 feet bgs. The prior soil investigation confirmed the presence of VOC- and SVOC-contaminated soil at concentrations exceeding the 2012 NMED residential SSLs, and as of Third Quarter calendar year 2013, delineation of soil contamination was complete.

The following bullets summarize the excavation activities conducted at the FFOR:

- During excavation activities, approximately 2,340 cubic yards (3,684 tons) of soil was removed and disposed of off-site.
- Confirmation soil samples were collected from the sidewalls and floor of the excavation grids at 25-foot intervals or less.
- Backfilling activities were performed at excavated areas.
- Analytical results indicate that lead is less than its respective 2012 NMED residential SSL (NMED, 2012a) at all sample locations.
- Five PAHs were detected in confirmation soil samples at concentrations exceeding their respective 2012 NMED residential SSLs. Step-out excavations were completed at these locations (except at DP-084 where an existing well prevented step-outs), and subsequent confirmation soil samples were collected to confirm that contamination had been removed.
- Contaminated soil was successfully removed to a depth of 20 feet bgs in areas where excavation was possible. Confirmation soil samples indicate that PAH contamination is no longer present in soil at the FFOR.
- TPH was detected in confirmation soil samples at concentrations exceeding the 2012 NMED residential TPH screening guideline for jet fuel. TPH contamination did not drive removal based on results of confirmation samples per the December 10, 2010 NMED directive letter (NMED, 2010c). The individual petroleum-based constituents were analyzed for in each soil sample, and soil was excavated if any of those constituents were detected at concentrations exceeding their respective 2012 NMED residential SSLs.

Based on the information presented in this report, the following recommendation has been identified for the FFOR: In areas where excavation was not possible due to the existence of utilities or infrastructure, contaminated soil is still present at levels exceeding respective 2012 NMED residential SSLs. It is recommended that a risk assessment be conducted for locations exhibiting exceedances that were not excavated to determine if concentrations in soil pose unacceptable risk to human health and the environment. If the risk assessment indicates that any of the exceedances pose unacceptable risk, then options for proceeding will be evaluated.

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PHOTOGRAPHS

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Photo 3-1
Exposed SVE Manifold Piping, West of Pump House
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-2
Boundary of Excavation at DP-084 in Relation to SVEW-04/05
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-3
Tension Cracks Observed Radiating from Excavation Towards Monitoring Well SVEW-01
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-4
Exposed Well Vault at DP-024
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-5
Assembled Trench Box
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-6
Installation of Trench Box using Rigging
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-7
Excavator Digging within Trench Box
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-8
Personnel Fall Protection Retrieval System
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-9
Self-Retracting Lifeline Used for Working Near the Edge of an Excavation
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-10
Sidewall Sampling Using PVC Pipe and Clean Glass Jar
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

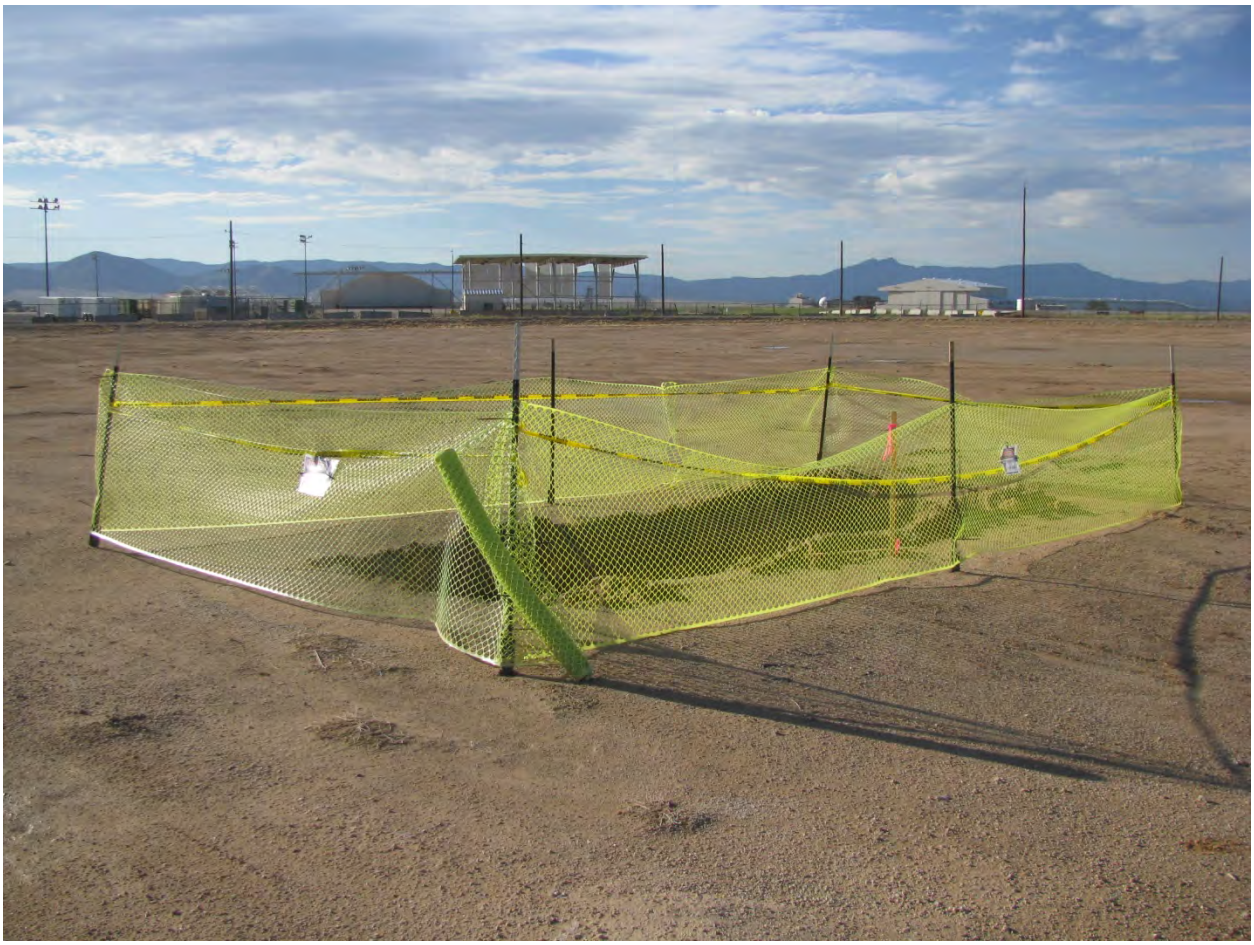

Photo 3-11
Temporary Plastic Fencing Around Open Excavation
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-12
Signage on Temporary Perimeter Chain-Link Fence Located in Northern Area, West of Pump House
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-13
Signage on Temporary Plastic Fencing Around Open Excavation, West of Pump House
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-14
Jersey Barriers, Flagging, and Signage Around Open Excavation, South of Pump House
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-15
Excavator Loading Soil Directly from Excavation into Small End-Dump Truck
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-16
Collecting Confirmation Soil Samples within a 4-foot Excavation
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-17
Hydraulic Plate Compactor
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

Photo 3-18
Technician Performing Density Testing within Trench Box of Excavation
FFOR Excavation Report
Kirtland Air Force Base, New Mexico

FIGURES

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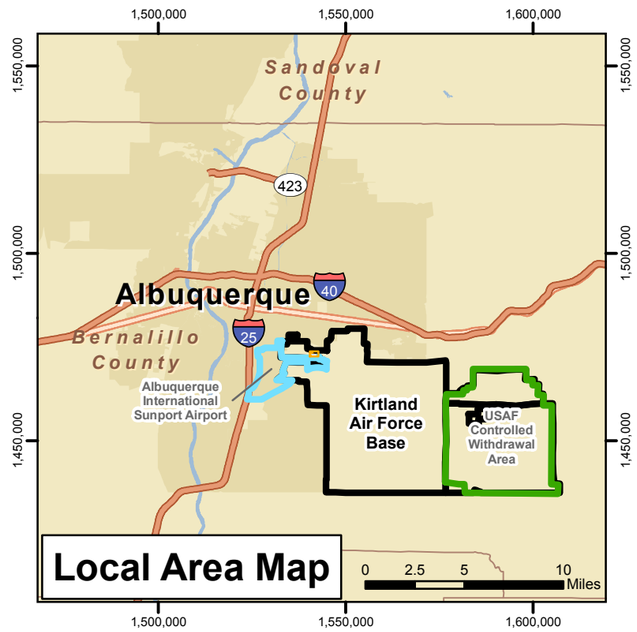

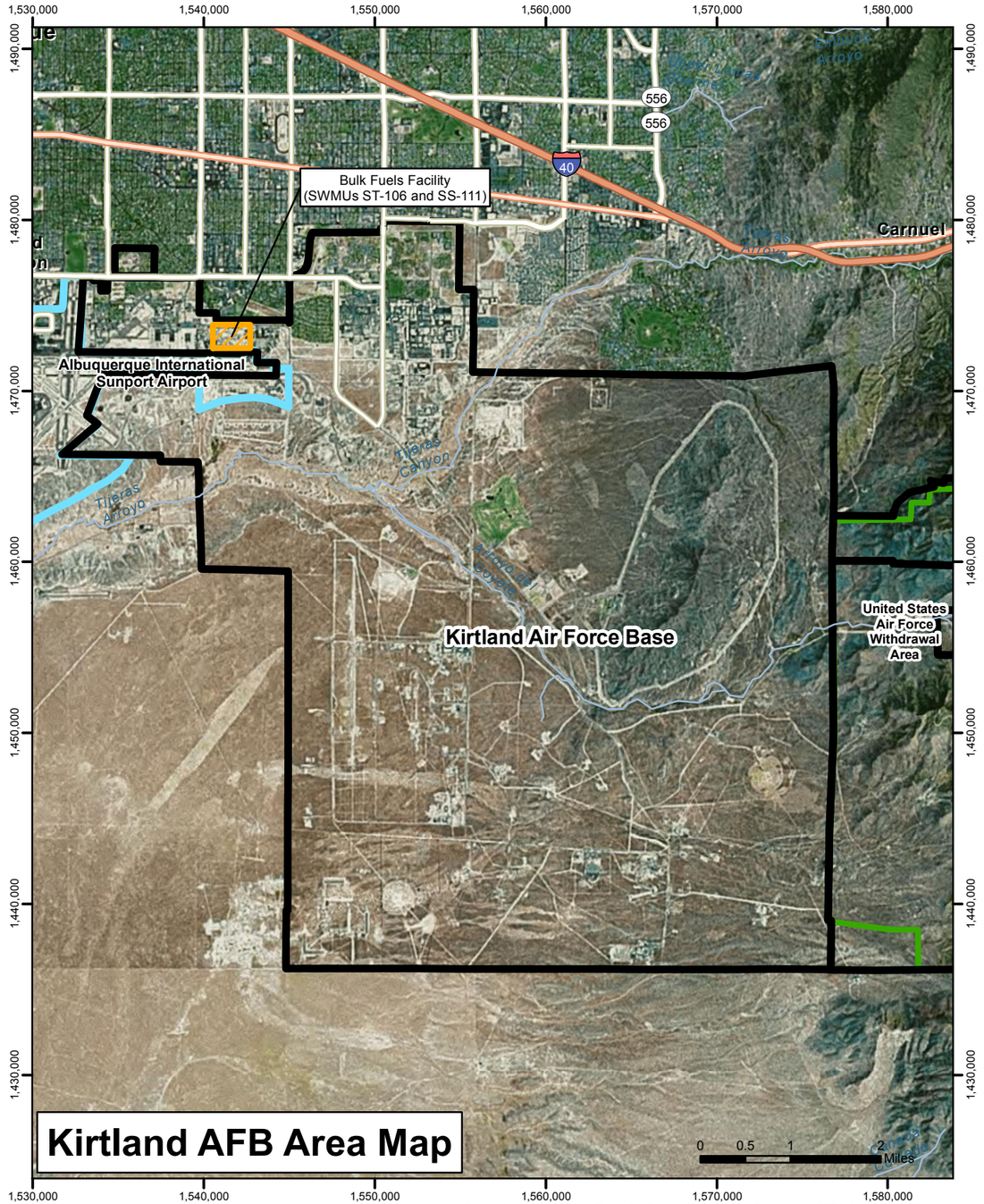

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Legend

- Kirtland Air Force Base Installation Boundary
- Bulk Fuels Facility (SWMUs ST-106 and SS-111)
- Albuquerque International Sunport Airport
- United States Air Force Withdrawal Area
- Major Highways
- Highways
- Major Roads
- Rivers
- Urban Areas
- Counties
- States

AFB = Air Force Base
SWMU = Solid Waste Management Unit
USAF = United States Air Force

N

Revision Date: 12/02/14

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 1-1

SITE LOCATION MAP

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_001_loc_map.mxd 12/02/14

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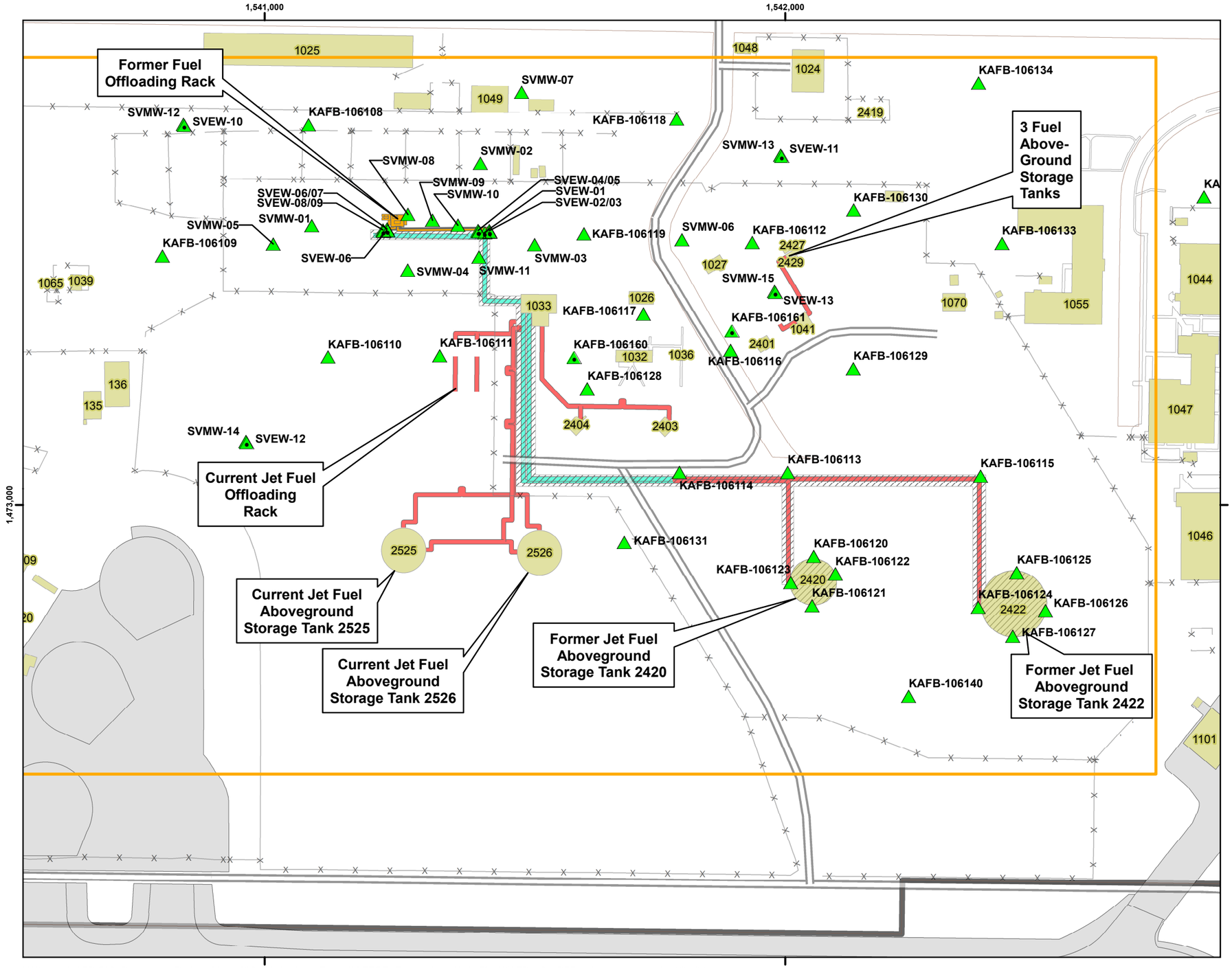

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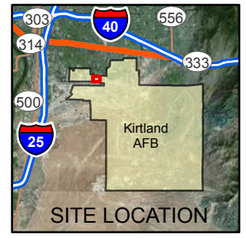
Legend

- SVE Well
- SVM Cluster
- SVE Subsurface Manifold Piping
- SVE Manifold
- Bulk Fuels Facility (SWMUs ST-106 and SS-111)
- Fence
- Major Road
- Road
- Existing Structure
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Previously Existing Structure
- Installation Boundary

AFB = Air Force Base
SVE = Soil Vapor Extraction
SVM = Soil Vapor Monitoring
SWMU = Solid Waste Management Unit



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Revision Date: 12/02/14

N

0 100 200 400

Feet
1 inch = 200 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 2-1

BULK FUELS FACILITY
INFRASTRUCTURE

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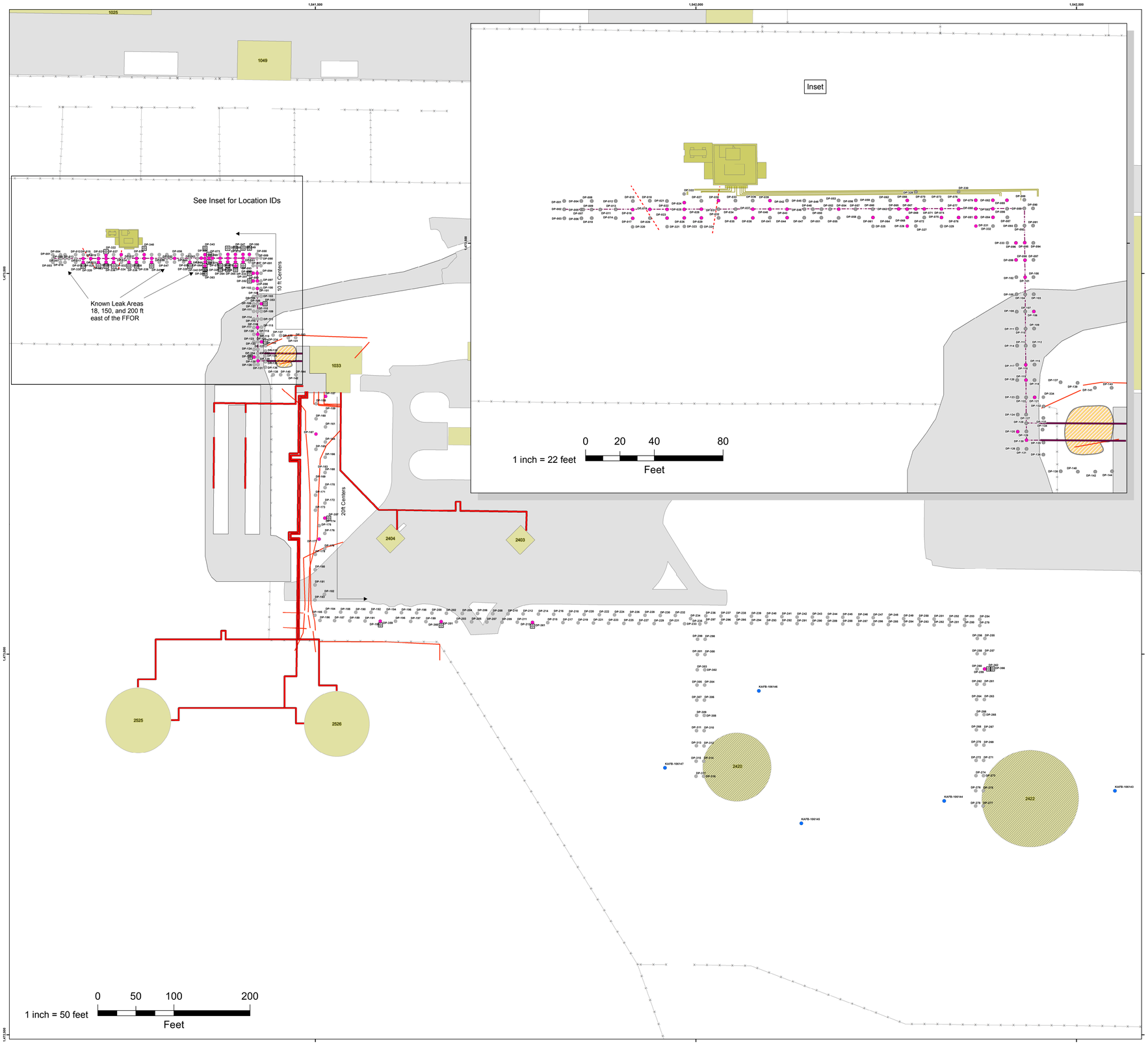

Legend

FFOR Soil Borings (2011 - 2013)

- Original Borehole Location
- Borehole Exceeded 2012 NMED Residential SSL
- Borehole Completed During Step-Outs

Fuel Tank Soil Borings (First Quarter CY 2011)

- Original Borehole Location

Note: No stepouts were performed at fuel tank soil borings in accordance with the Vadose Zone Work Plan (2011).

- Previously Existing Structure
- Existing Excavation
- Aboveground Fuel Transfer Lines
- Former Fuel Lines
- In-Place Fuel Lines
- Electric Utility Line
- Fence
- Existing Structure

AFB = Air Force Base
CY = Calendar Year
FFOR = Former Fuel Offloading Rack
ft = feet/foot
ID = Identification
NMED = New Mexico Environment Department
SSL = Soil Screening Level

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Revision Date: 12/02/14

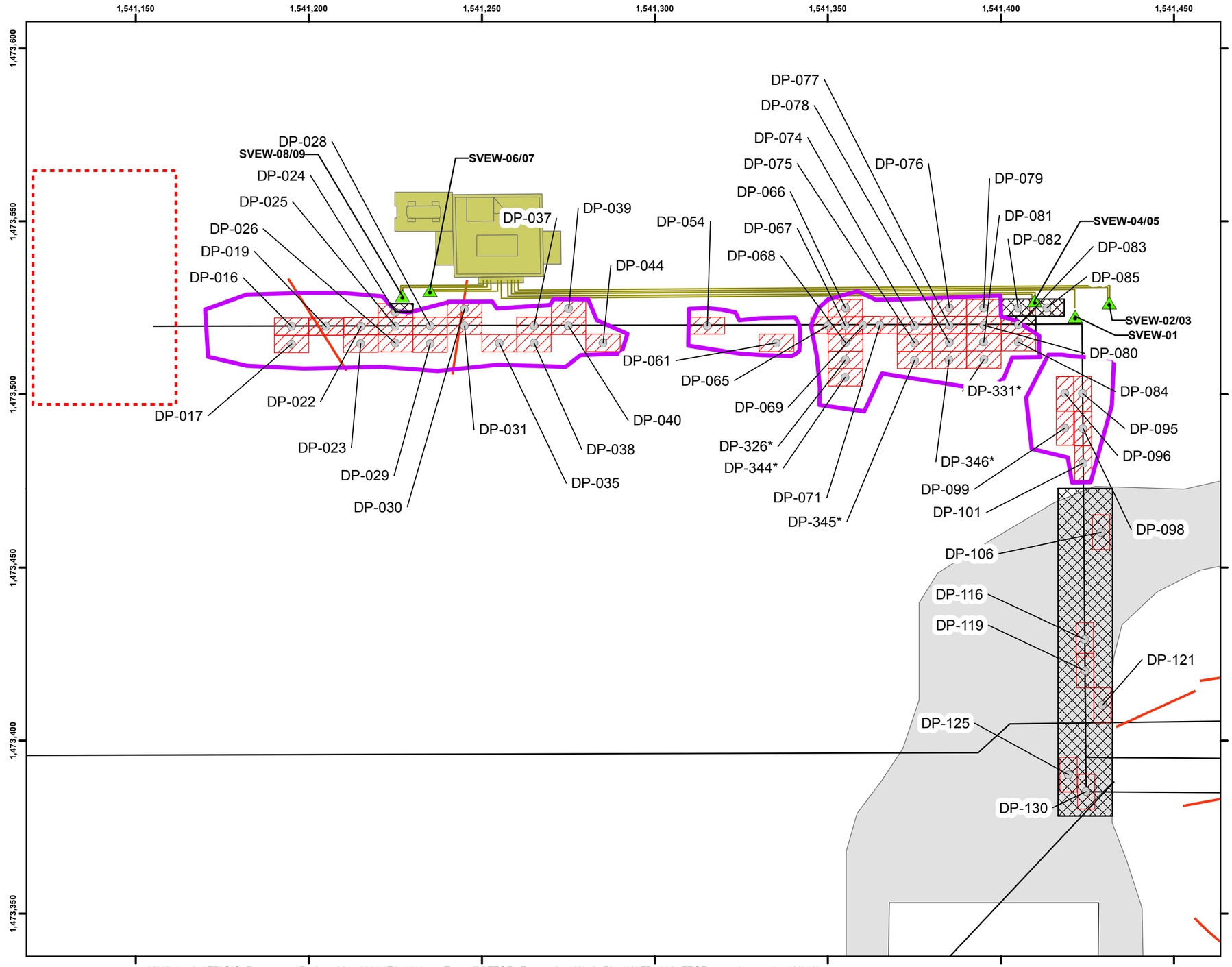
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 2-2

INITIAL SOIL INVESTIGATION BORING LOCATIONS

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_013_FFOR_RI_status_0_21_Esize.mxd 12/02/14



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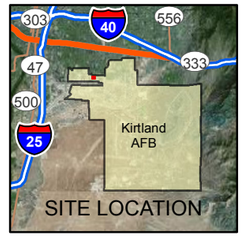
Legend

- SVE Well
- Soil Investigation DPT Boring
- Contaminated Soil Stockpile Location
- Final Excavation Boundary
- Non-Excavated Area due to Pre-Existing Utilities and Infrastructure
- Preliminary Excavation Boundary
- SVE Subsurface Piping
- Electric Utility Line
- FFOR 16 in Fuel Line
- SVE Manifold
- Concrete or Asphalt

*Step-Out Location

AFB = Air Force Base
DPT = Direct Push Technology
FFOR = Former Fuel Offloading Rack
SVE = Soil Vapor Extraction
SVEW = Soil Vapor Extraction Well

Note: Final excavation boundary includes shallow, benched, and ramped areas associated with excavation activities.



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Revision Date: 12/01/14

N

0 15 30 60

Feet
1 inch = 30 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-1

EXCAVATION OVERVIEW
WEST OF PUMP HOUSE,
ALL DEPTHS

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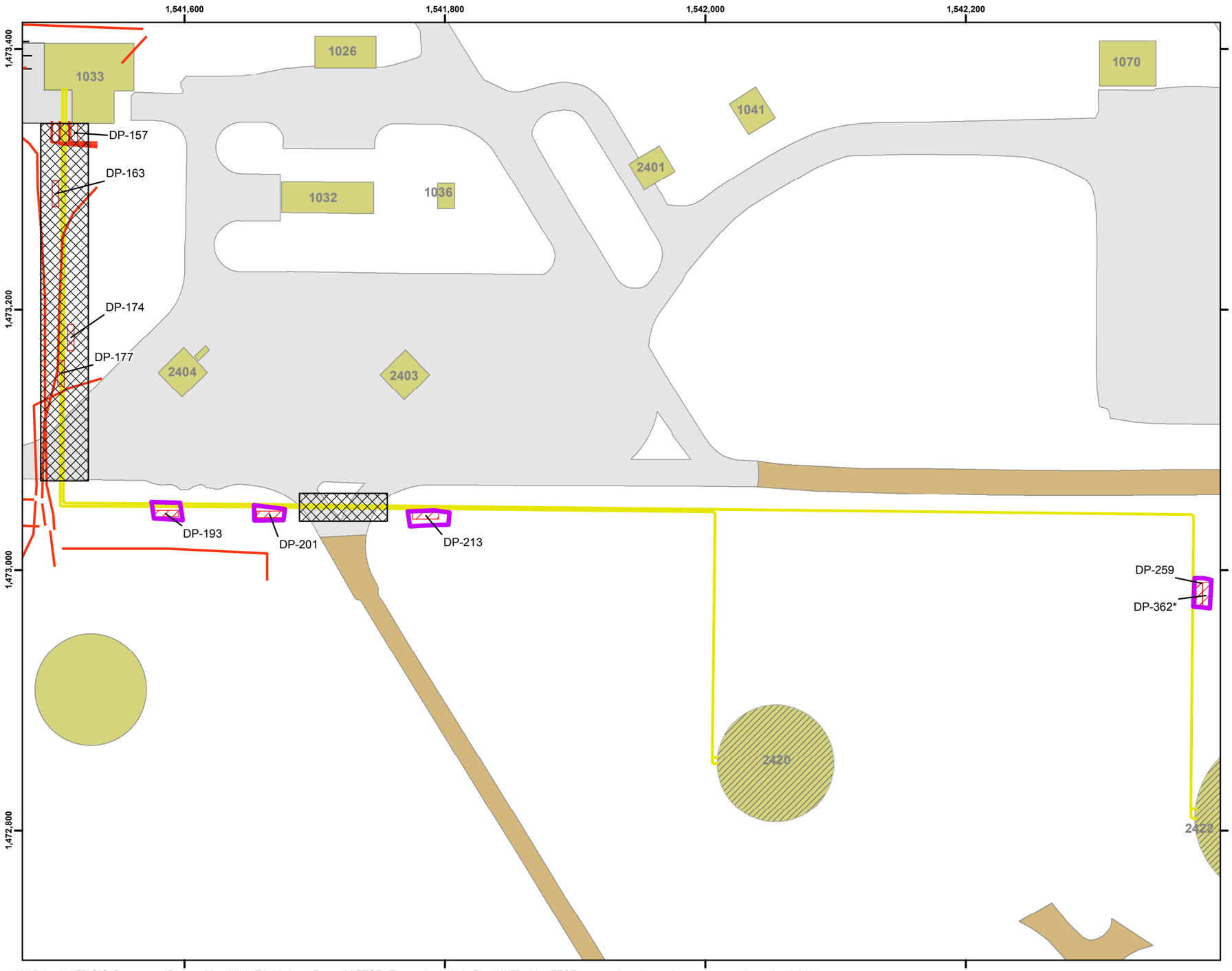


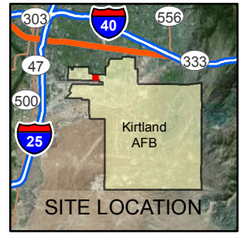
Legend

- Soil Investigation DPT Boring
- Final Excavation Boundary
- Non-Excavated Area due to Pre-Existing Utilities and Infrastructure
- Preliminary Excavation Boundary
- Electric Utility Line
- FFOR 16 in Fuel Line
- Former Fuel Transfer Line
- Previously Existing Structure
- Existing Structure
- Graded Gravel
- Concrete or Asphalt

*Step-Out Location

AFB = Air Force Base
DPT = Direct Push Technology
FFOR = Former Fuel Offloading Rack

Note: Final excavation boundary includes shallow, benched, and ramped areas associated with excavation activities.



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Revision Date: 12/02/14

N

0 40 80 160

Feet
1 inch = 80 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-2

EXCAVATION OVERVIEW
SOUTH OF PUMP HOUSE, ALL DEPTHS

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_007_FFOR_excavation_disposal_overview_south.mxd 12/02/14

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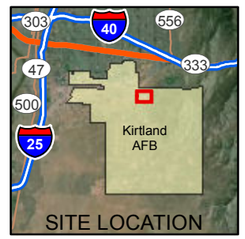
Legend

Description

- Backfill Analytical Sample Location
- Backfill Proctor Sample Location
- Approximate Location of Borrow Source Area
- Kirtland Construction and Demolition Debris Landfill Boundary

Notes:
AFB = Air Force Base



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

N

Revision Date: 11/10/14

0 200 400 800

Feet
1 inch = 400 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-3

BORROW SOURCE AND BACKFILL SAMPLE LOCATION

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_008_borrow_source.mxd 11/10/14

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1,541,150 1,541,200 1,541,250 1,541,300

1,473,550 1,473,500 1,473,450

FFOR-EXC-02	
6/30/2014	2.5 feet bgs
Benzo(a)anthracene	9.8 J-
Benzo(a)pyrene	9.9 J-
Benzo(b)fluoranthene	12 J-
Dibenzo(a,h)anthracene	1.6 J-
Indeno(1,2,3,-cd)pyrene	4.8 J-

FFOR-EXCSO-01	
7/21/2014	2.5 feet bgs
Benzo(a)pyrene	**0.95 J+**
Dibenzo(a,h)anthracene	**0.16 J+**

FFOR-EXC-44	
8/20/2014	10 feet bgs
Benzo(a)pyrene	**0.16 J**

FFOR-EXC-55	
9/2/2014	20 feet bgs
Benzo(a)pyrene	**0.32**

FFOR-EXC-54	
9/2/2014	10 feet bgs
Benzo(a)pyrene	**0.29**

FFOR-EXC-57	
9/3/2014	10 feet bgs
Benzo(a)pyrene	**0.4 J**

FFOR-EXC-03
FFOR-EXC-45
FFOR-EXC-52
FFOR-EXC-53
FFOR-EXC-67
FFOR-EXC-56
FFOR-EXC-04
FFOR-EXC-47
FFOR-EXC-68
FFOR-EXC-07
FFOR-EXC-01
FFOR-EXC-46
FFOR-EXC-05
FFOR-EXC-09
FFOR-EXC-08

FFOR-EXC-51	
9/2/2014	10 feet bgs
Benzo(a)pyrene	**0.22**

FFOR-EXCSO-10	
9/8/2014	10 feet bgs
Benzo(a)pyrene	0.081
*All other PAH results detected below respective SSLs	

FFOR-EXCSO-08	
9/8/2014	10 feet bgs
Benzo(a)pyrene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXCO-07	
9/5/2014	10 feet bgs
Benzo(a)anthracene	ND
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	0.035
Dibenzo(a,h)anthracene	0.0087 J
Indeno(1,2,3,-cd)pyrene	0.025
*All other PAH results detected below respective SSLs	

FFOR-EXCSO-04	
7/24/2014	2.5 feet bgs
Benzo(a)pyrene	ND
Dibenzo(a,h)anthracene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXCSO-06	
9/3/2014	10 feet bgs
Benzo(a)pyrene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXC-02	
7/24/2014	2.5 feet bgs
Benzo(a)anthracene	ND
Benzo(a)pyrene	ND
Benzo(b)fluoranthene	0.018J
Dibenzo(a,h)anthracene	ND
Indeno(1,2,3,-cd)pyrene	ND

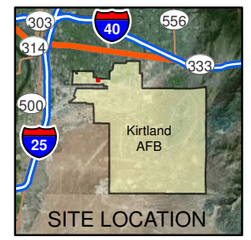
FFOR-EXCSO-09	
9/8/2014	10 feet bgs
Benzo(a)pyrene	0.032 J
*All other PAH results detected below respective SSLs	

FFOR-EXC-06	
6/30/2014	2.5 feet bgs
Benzo(a)anthracene	11 J-
Benzo(a)pyrene	13 J-
Benzo(b)fluoranthene	16 J-
Dibenzo(a,h)anthracene	1.9 J-
Indeno(1,2,3,-cd)pyrene	5.9 J-

Legend

- Soil Investigation DPT Boring
- Confirmation Sample Location
- Step-Out Confirmation Sample Location
- Final Excavation Area to Total Depth
- Final Excavation Boundary
- Stepout Excavation
- Shallow Areas Within Excavation that were Benched or Ramped
- Non-Excavated Area due to Pre-Existing Utilities and Infrastructure
- Preliminary Excavation Boundary
- SVE Subsurface Piping
- Electric Utility Line
- FFOR 16 in Fuel Line
- SVE Manifold

Note: Units are in milligrams per kilogram. Bolded results indicate that the analyte exceeds the 2012 NMED residential SSLs.
AFB = Air Force Base
bgs = Below Ground Surface
DPT = Direct Push Technology
FFOR = Former Fuel Offloading Rack
ND = Not Detected
NMED = New Mexico Environment Department
PAH = Polynuclear Aromatic Hydrocarbons
SSL = Soil Screening Level
SVE = Soil Vapor Extraction



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N

Revision Date: 12/02/14

0 8 16 32

Feet

1 inch = 16 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-4

EXCAVATION AREA
SOUTH OF SVE MANIFOLD

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_009_FFOR_zone1_excavation.mxd 12/02/14

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1,541,300 1,541,350 1,541,400 1,541,450

1,473,550 1,473,500 1,473,450

FFOR-EXC-13	
7/1/2014	5 feet bgs
Benzo(a)pyrene	**0.55**
Dibenzo(a,h)anthracene	**0.33 J**

FFOR-EXC-12	
7/1/2014	5 feet bgs
Benzo(a)pyrene	**0.15 J**

FFOR-EXC-63	
9/4/2014	10 feet bgs
Benzo(a)anthracene	1.9 J-
Benzo(a)pyrene	8.6 J-
Benzo(b)fluoranthene	14 J-
Dibenzo(a,h)anthracene	1.7 J-
Indeno(1,2,3,-cd)pyrene	4.8 J-

FFOR-EXC-35	
7/29/2014	10 feet bgs
Benzo(a)pyrene	**0.15 J**

FFOR-EXC-72	
9/5/2014	7.5 feet bgs
Benzo(a)pyrene	**0.45**
Dibenzo(a,h)anthracene	**0.23**

FFOR-EXCS0-12	
9/11/2014	7.5 feet bgs
Dibenzo(a,h)anthracene	**0.32j+**
*All other PAH results detected below respective SSLs	

FFOR-EXCSO-11	
9/10/2014	20 feet bgs
Benzo(a)pyrene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXCSO-13	
9/16/2014	7.5 feet bgs
Dibenzo(a,h)anthracene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXC-61	
9/4/2014	10 feet bgs
Benzo(a)pyrene	**0.15 J**

FFOR-EXCSO-03	
7/24/2014	5 feet bgs
Benzo(a)pyrene	0.012 J
Dibenzo(a,h)anthracene	ND
*All other PAH results detected below respective SSLs	

FFOR-EXC-10, FFOR-EXC-11, FFOR-EXC-14, FFOR-EXCSO-12, FFOR-EXC-69, FFOR-EXC-70, FFOR-EXC-73, FFOR-EXC-71, FFOR-EXC-42, FFOR-EXC-40, FFOR-EXC-43, FFOR-EXC-41, FFOR-EXC-50, FFOR-EXC-48, FFOR-EXC-49, FFOR-EXC-62, FFOR-EXC-39, FFOR-EXC-66, FFOR-EXC-64, FFOR-EXC-65, FFOR-EXC-37, FFOR-EXC-38, FFOR-EXC-36, FFOR-EXC-60, FFOR-EXC-59, FFOR-EXC-58

Legend

- Soil Investigation DPT Boring
- Confirmation Sample Location
- Step-Out Confirmation Sample Location
- Final Excavation Area to Total Depth
- Stepout Excavation
- Final Excavation Boundary
- Shallow Areas Within Excavation that were Benched or Ramped
- Non-Excavated Area due to Pre-Existing Utilities and Infrastructure
- Preliminary Excavation Boundary
- Concrete or Asphalt
- SVE Subsurface Piping
- FFOR 16 in Fuel Line

Note: Units are in milligrams per kilogram. Bolded results indicate that the analyte exceeds the 2012 NMED residential SSLs.

AFB = Air Force Base
bgs = Below Ground Surface
DPT = Direct Push Technology
FFOR = Former Fuel Offloading Rack
ND = Not Detected
NMED = New Mexico Environment Department
PAH = Polynuclear Aromatic Hydrocarbons
SSL = Soil Screening Level
SVE = Soil Vapor Extraction

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Revision Date: 12/02/14

N

0 8 16 32

Feet
1 inch = 16 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-5

EXCAVATION AREAS
WEST OF PUMP HOUSE

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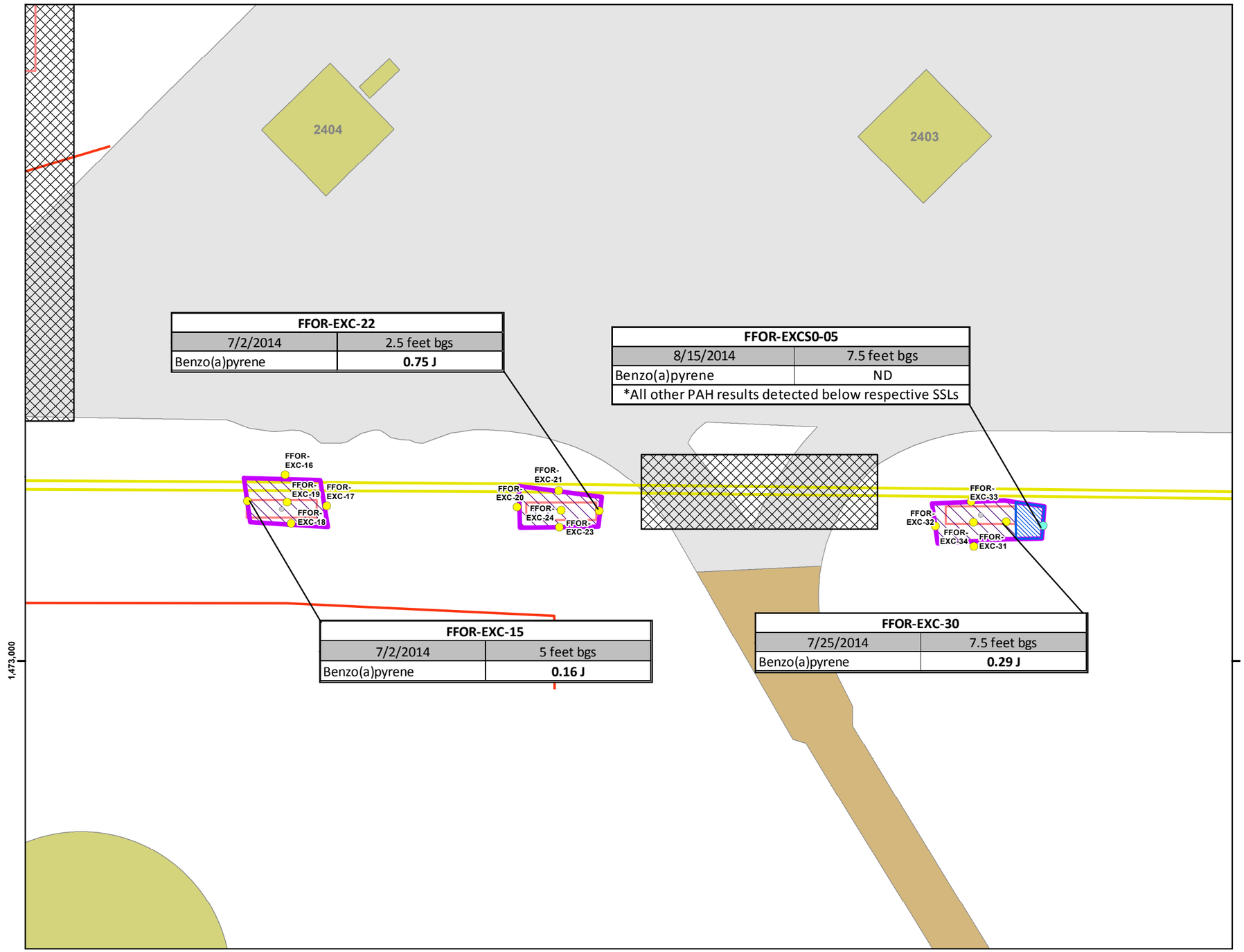

Legend

- Soil Investigation DPT Boring
- Confirmation Sample Location
- Step-Out Confirmation Sample Location
- Stepout Excavation
- Final Excavation Boundary
- Final Excavation Area to Total Depth
- Preliminary Excavation Boundary
- FFOR 16 in Fuel Line
- Non-Excavated Area due to Pre-Existing Utilities and Infrastructure
- Electric Utility Line
- Existing Structure
- Graded Gravel
- Concrete or Asphalt

Note: Units are in milligrams per kilogram. Bolded results indicate that the analyte exceeds the 2012 NMED residential SSLs.
AFB = Air Force Base
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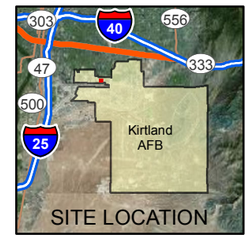
FFOR = Former Fuel Offloading Rack
ND = Not Detected
NMED = New Mexico Environment Department
SSL = Soil Screening Level



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

N

Revision Date: 12/02/14

0 15 30 60

Feet

1 inch = 30 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-6

EXCAVATION AT DP-193,
DP-201, AND DP-213

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001EA_Vadose_Zone_IM\FFOR_Excavation_Work_Plan\KAFB_011_FFOR_zone3_excavation.mxd 12/02/14

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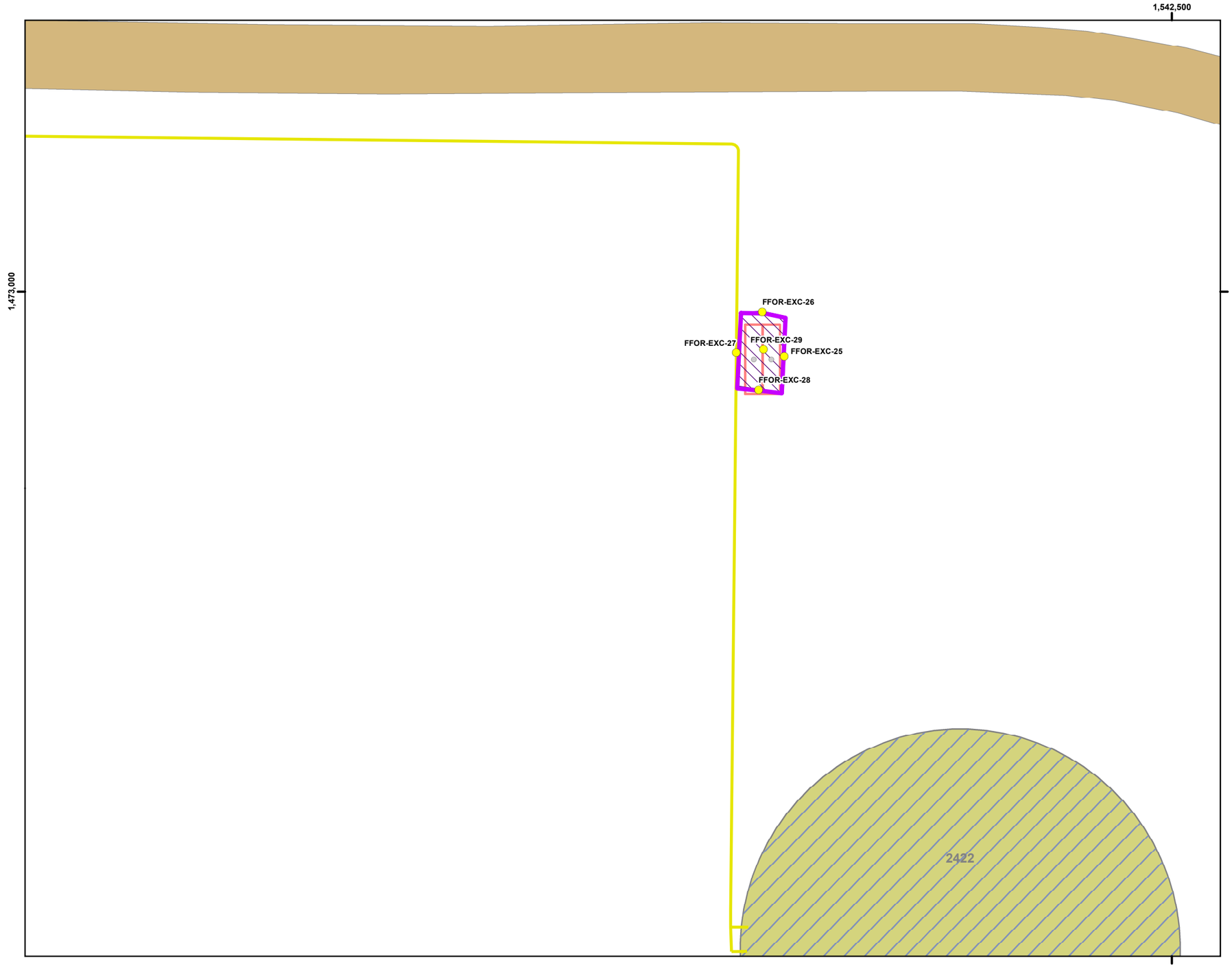
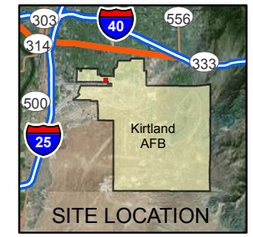


Legend

- Soil Investigation DPT Boring
- Confirmation Sample Location
- Final Excavation Boundary
- Final Excavation Area to Total Depth
- Preliminary Excavation Boundary
- FFOR 16 in Fuel Line
- Previously Existing Structure
- Graded Gravel

Note: Units are in milligrams per kilogram. Bolded results indicate that the analyte exceeds the 2012 NMED residential SSLs.

AFB = Air Force Base
DPT = Direct Push Technology
FFOR = Former Fuel Offloading Rack
NMED = New Mexico Environment Department
SSL = Soil Screening Level



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Revision Date: 12/02/14

N

0 15 30 60

Feet
1 inch = 30 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION REPORT
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 3-7

EXCAVATION AT DP-259
AND DP-362

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TABLES

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Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
KAFB-106143		Initial Soil Investigation	2/17/2011	1542550.46	1472820.46	0 - 20	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
KAFB-106144		Initial Soil Investigation	2/16/2011	1542326.20	1472807.25	0 - 20	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
KAFB-106145		Initial Soil Investigation	2/16/2011	1542138.38	1472777.70	0 - 20	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
KAFB-106146		Initial Soil Investigation	2/16/2011	1542082.71	1472951.78	0 - 20	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
KAFB-106147		Initial Soil Investigation	2/17/2011	1541959.30	1472850.62	0 - 20	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-001		Initial Soil Investigation	6/18/2011	1541155.05	1473524.55	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-002		Initial Soil Investigation	6/18/2011	1541155.10	1473519.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-003		Initial Soil Investigation	6/18/2011	1541155.14	1473514.57	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-004		Initial Soil Investigation	6/18/2011	1541165.08	1473524.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-005		Initial Soil Investigation	6/18/2011	1541165.08	1473519.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-006		Initial Soil Investigation	6/18/2011	1541165.14	1473514.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-007		Initial Soil Investigation	6/19/2011	1541166.15	1473519.56	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-008		Initial Soil Investigation	6/19/2011	1541171.09	1473524.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-009		Initial Soil Investigation	6/19/2011	1541171.07	1473519.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-010		Initial Soil Investigation	6/19/2011	1541171.12	1473514.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-011		Initial Soil Investigation	6/19/2011	1541176.06	1473519.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-012		Initial Soil Investigation	6/19/2011	1541185.09	1473524.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-013		Initial Soil Investigation	6/19/2011	1541185.10	1473519.65	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-014		Initial Soil Investigation	6/19/2011	1541185.13	1473514.67	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-015		Initial Soil Investigation	6/20/2011	1541195.11	1473524.65	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-016		Initial Soil Investigation	6/20/2011	1541195.02	1473519.59	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-017		Initial Soil Investigation	6/20/2011	1541195.00	1473514.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-018		Initial Soil Investigation	6/20/2011	1541205.01	1473524.69	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-019		Initial Soil Investigation	6/20/2011	1541204.99	1473519.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-020		Initial Soil Investigation	6/21/2011	1541205.08	1473514.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-021		Initial Soil Investigation	6/21/2011	1541214.99	1473524.66	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-022		Initial Soil Investigation	6/21/2011	1541215.07	1473519.68	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-023		Initial Soil Investigation	6/21/2011	1541215.04	1473514.67	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-024		Initial Soil Investigation	6/21/2011	1541225.03	1473523.69	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-025		Initial Soil Investigation	6/21/2011	1541225.05	1473519.75	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-026		Initial Soil Investigation	6/21/2011	1541225.06	1473514.77	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-027		Initial Soil Investigation	6/21/2011	1541235.01	1473524.68	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-028		Initial Soil Investigation	6/22/2011	1541235.03	1473519.78	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-029		Initial Soil Investigation	6/22/2011	1541235.04	1473514.69	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-030		Initial Soil Investigation	6/22/2011	1541245.04	1473524.75	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-031		Initial Soil Investigation	6/22/2011	1541245.03	1473519.81	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-032		Initial Soil Investigation	6/22/2011	1541245.07	1473514.77	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-033		Initial Soil Investigation	6/22/2011	1541254.96	1473524.80	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-034		Initial Soil Investigation	6/22/2011	1541255.00	1473519.80	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-035		Initial Soil Investigation	6/22/2011	1541255.01	1473514.79	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-036		Initial Soil Investigation	6/23/2011	1541265.02	1473524.87	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-037		Initial Soil Investigation	6/23/2011	1541265.07	1473519.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-038		Initial Soil Investigation	6/23/2011	1541265.04	1473514.80	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-039		Initial Soil Investigation	6/23/2011	1541275.06	1473524.81	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-040		Initial Soil Investigation	6/23/2011	1541275.05	1473519.83	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-041		Initial Soil Investigation	6/24/2011	1541275.01	1473514.89	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-042		Initial Soil Investigation	6/24/2011	1541284.95	1473524.87	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-043		Initial Soil Investigation	6/24/2011	1541284.99	1473519.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-044		Initial Soil Investigation	6/24/2011	1541284.99	1473514.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-045		Initial Soil Investigation	6/24/2011	1541295.04	1473524.83	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-046		Initial Soil Investigation	6/25/2011	1541295.09	1473519.82	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-047		Initial Soil Investigation	6/25/2011	1541295.04	1473514.85	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-048		Initial Soil Investigation	6/25/2011	1541300.01	1473519.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-049		Initial Soil Investigation	6/25/2011	1541304.95	1473524.82	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-050		Initial Soil Investigation	6/25/2011	1541305.04	1473519.88	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-051		Initial Soil Investigation	6/27/2011	1541304.99	1473514.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-052		Initial Soil Investigation	6/27/2011	1541310.05	1473519.87	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-053		Initial Soil Investigation	6/27/2011	1541315.04	1473524.88	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-054		Initial Soil Investigation	6/27/2011	1541315.11	1473519.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-055		Initial Soil Investigation	6/27/2011	1541315.03	1473514.81	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-056		Initial Soil Investigation	6/28/2011	1541325.09	1473524.90	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-057		Initial Soil Investigation	6/28/2011	1541324.99	1473519.85	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-058		Initial Soil Investigation	6/28/2011	1541325.02	1473514.84	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-059		Initial Soil Investigation	6/28/2011	1541334.99	1473524.87	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-060		Initial Soil Investigation	6/28/2011	1541334.96	1473519.92	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-061		Initial Soil Investigation	6/29/2011	1541335.09	1473514.91	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-062		Initial Soil Investigation	6/29/2011	1541345.08	1473524.88	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-063		Initial Soil Investigation	6/29/2011	1541345.04	1473519.91	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-064		Initial Soil Investigation	6/29/2011	1541345.02	1473514.93	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-065		Initial Soil Investigation	6/29/2011	1541350.08	1473519.96	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-066		Initial Soil Investigation	7/6/2011	1541355.04	1473524.94	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-067		Initial Soil Investigation	7/6/2011	1541355.00	1473519.91	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-068		Initial Soil Investigation	7/6/2011	1541355.06	1473515.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-069		Initial Soil Investigation	7/6/2011	1541360.10	1473519.97	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-070		Initial Soil Investigation	7/6/2011	1541365.00	1473524.96	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-071		Initial Soil Investigation	7/7/2011	1541365.01	1473519.97	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-072		Initial Soil Investigation	7/7/2011	1541365.00	1473514.94	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-073		Initial Soil Investigation	7/7/2011	1541375.01	1473524.96	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-074		Initial Soil Investigation	7/7/2011	1541375.01	1473519.95	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-075		Initial Soil Investigation	7/7/2011	1541375.04	1473514.93	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-076		Initial Soil Investigation	7/8/2011	1541385.07	1473525.03	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-077		Initial Soil Investigation	7/8/2011	1541385.05	1473520.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-078		Initial Soil Investigation	7/8/2011	1541385.04	1473515.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-079		Initial Soil Investigation	7/8/2011	1541395.02	1473524.98	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-080		Initial Soil Investigation	7/8/2011	1541395.04	1473520.02	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-081		Initial Soil Investigation	7/9/2011	1541395.05	1473515.07	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-082		Initial Soil Investigation	7/9/2011	1541404.98	1473525.05	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-083		Initial Soil Investigation	7/9/2011	1541405.02	1473520.07	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-084		Initial Soil Investigation	7/9/2011	1541405.08	1473515.05	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-085		Initial Soil Investigation	7/9/2011	1541413.24	1473525.08	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-086		Initial Soil Investigation	7/10/2011	1541413.26	1473520.06	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-087		Initial Soil Investigation	7/10/2011	1541413.42	1473515.10	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-088		Initial Soil Investigation	7/10/2011	1541423.32	1473525.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-089		Initial Soil Investigation	7/10/2011	1541423.37	1473520.26	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-090		Initial Soil Investigation	7/10/2011	1541428.38	1473520.28	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-091		Initial Soil Investigation	7/10/2011	1541428.46	1473510.21	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-092		Initial Soil Investigation	7/11/2011	1541423.44	1473510.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-093		Initial Soil Investigation	7/11/2011	1541418.38	1473510.15	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-094		Initial Soil Investigation	7/11/2011	1541428.56	1473500.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-095		Initial Soil Investigation	7/11/2011	1541423.58	1473500.26	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-096		Initial Soil Investigation	7/12/2011	1541418.47	1473500.20	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-097		Initial Soil Investigation	7/12/2011	1541428.69	1473490.23	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-098		Initial Soil Investigation	7/12/2011	1541423.72	1473490.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-099		Initial Soil Investigation	7/12/2011	1541418.52	1473490.26	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-100		Initial Soil Investigation	7/12/2011	1541428.69	1473480.25	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-101		Initial Soil Investigation	7/13/2011	1541423.75	1473480.16	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-102		Initial Soil Investigation	7/13/2011	1541418.69	1473480.26	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-103		Initial Soil Investigation	7/13/2011	1541428.82	1473470.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-104		Initial Soil Investigation	7/13/2011	1541423.88	1473470.21	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-105		Initial Soil Investigation	4/12/2012	1541418.72	1473470.27	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-106		Initial Soil Investigation	7/14/2011	1541428.90	1473460.21	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-107		Initial Soil Investigation	4/12/2012	1541423.88	1473460.21	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-108		Initial Soil Investigation	4/12/2012	1541418.89	1473460.05	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-109		Initial Soil Investigation	7/14/2011	1541429.02	1473450.25	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-110		Initial Soil Investigation	7/14/2011	1541424.05	1473450.16	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-111		Initial Soil Investigation	4/12/2012	1541418.96	1473450.14	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-112		Initial Soil Investigation	7/18/2011	1541429.13	1473440.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-113		Initial Soil Investigation	7/18/2011	1541424.17	1473440.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-114		Initial Soil Investigation	4/12/2012	1541419.11	1473440.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-115		Initial Soil Investigation	7/18/2011	1541429.24	1473429.29	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-116		Initial Soil Investigation	7/18/2011	1541424.19	1473429.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-117		Initial Soil Investigation	7/18/2011	1541419.23	1473429.09	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-118		Initial Soil Investigation	7/18/2011	1541429.24	1473420.23	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-119		Initial Soil Investigation	7/18/2011	1541424.28	1473420.22	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-120		Initial Soil Investigation	7/19/2011	1541419.23	1473420.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-121		Initial Soil Investigation	7/19/2011	1541429.35	1473410.22	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-122		Initial Soil Investigation	7/19/2011	1541424.38	1473410.16	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-123		Initial Soil Investigation	7/19/2011	1541419.36	1473410.12	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-124		Initial Soil Investigation	7/19/2011	1541419.47	1473400.14	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-125		Initial Soil Investigation	7/19/2011	1541419.50	1473390.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-126		Initial Soil Investigation	7/19/2011	1541419.64	1473380.14	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-127		Initial Soil Investigation	7/19/2011	1541424.40	1473400.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-128		Initial Soil Investigation	7/20/2011	1541424.46	1473395.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-129		Initial Soil Investigation	7/20/2011	1541424.51	1473390.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-130		Initial Soil Investigation	7/20/2011	1541424.62	1473385.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-131		Initial Soil Investigation	7/20/2011	1541424.58	1473380.16	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-132		Initial Soil Investigation	4/9/2012	1541434.56	1473404.89	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-133		Initial Soil Investigation	4/9/2012	1541434.42	1473398.12	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-134		Initial Soil Investigation	4/9/2012	1541434.02	1473391.38	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-135		Initial Soil Investigation	4/9/2012	1541434.51	1473383.79	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-136		Initial Soil Investigation	4/9/2012	1541434.44	1473376.78	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-137		Initial Soil Investigation	4/10/2012	1541444.48	1473418.99	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-138		Initial Soil Investigation	4/10/2012	1541444.57	1473367.07	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-139		Initial Soil Investigation	4/11/2012	1541454.37	1473418.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-140		Initial Soil Investigation	4/10/2012	1541454.52	1473366.89	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-141		Initial Soil Investigation	4/11/2012	1541464.47	1473415.66	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-142		Initial Soil Investigation	4/10/2012	1541464.70	1473366.78	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-143		Initial Soil Investigation	4/11/2012	1541474.21	1473415.70	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-144		Initial Soil Investigation	4/10/2012	1541474.42	1473367.04	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-145		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-146		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-147		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-148		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-149		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-150		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-151		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-152		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-153		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-154		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-155		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-156		Initial Soil Investigation	Samples Not Collected - Located within Excavation on west side of Pump House					
DP-157		Initial Soil Investigation	8/17/2011	1541515.27	1473338.34	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-158		Initial Soil Investigation	8/17/2011	1541501.03	1473321.84	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-159		Initial Soil Investigation	8/17/2011	1541513.45	1473318.59	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-160		Initial Soil Investigation	8/17/2011	1541500.89	1473309.01	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-161		Initial Soil Investigation	8/17/2011	1541513.26	1473298.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-162		Initial Soil Investigation	7/21/2011	1541512.06	1473118.65	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-163		Initial Soil Investigation	8/16/2011	1541500.78	1473288.94	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-164		Initial Soil Investigation	8/16/2011	1541513.17	1473278.64	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-165		Initial Soil Investigation	8/16/2011	1541500.73	1473268.98	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-166		Initial Soil Investigation	8/16/2011	1541512.91	1473258.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-167		Initial Soil Investigation	8/16/2011	1541500.60	1473248.96	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-168		Initial Soil Investigation	8/15/2011	1541512.87	1473238.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-169		Initial Soil Investigation	8/15/2011	1541500.46	1473229.13	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-170		Initial Soil Investigation	8/15/2011	1541512.81	1473218.68	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-171		Initial Soil Investigation	8/15/2011	1541500.25	1473208.93	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-172		Initial Soil Investigation	8/15/2011	1541512.61	1473198.51	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-173		Initial Soil Investigation	8/12/2011	1541500.20	1473189.04	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-174		Initial Soil Investigation	8/12/2011	1541512.53	1473178.65	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-175		Initial Soil Investigation	8/12/2011	1541505.07	1473168.90	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-176		Initial Soil Investigation	8/12/2011	1541512.43	1473158.57	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-177		Initial Soil Investigation	8/11/2011	1541505.05	1473151.06	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-178		Initial Soil Investigation	8/11/2011	1541512.22	1473138.49	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-179		Initial Soil Investigation	8/11/2011	1541499.93	1473130.98	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-180		Initial Soil Investigation	8/12/2011	1541499.78	1473111.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-181		Initial Soil Investigation	7/20/2011	1541499.55	1473091.07	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-182		Initial Soil Investigation	7/20/2011	1541511.91	1473078.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-183		Initial Soil Investigation	7/20/2011	1541499.54	1473071.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-184		Initial Soil Investigation	6/18/2011	1541513.35	1473055.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-185		Initial Soil Investigation	6/18/2011	1541499.39	1473051.08	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-186		Initial Soil Investigation	6/17/2011	1541506.09	1473044.26	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-187		Initial Soil Investigation	6/17/2011	1541525.29	1473043.98	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-188		Initial Soil Investigation	6/17/2011	1541533.22	1473055.19	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-189		Initial Soil Investigation	6/17/2011	1541545.32	1473043.67	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-190		Initial Soil Investigation	6/17/2011	1541553.17	1473055.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-191		Initial Soil Investigation	6/17/2011	1541565.32	1473043.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-192		Initial Soil Investigation	6/17/2011	1541573.19	1473054.89	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-193		Initial Soil Investigation	6/17/2011	1541585.37	1473043.43	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-194		Initial Soil Investigation	6/16/2011	1541593.25	1473054.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-195		Initial Soil Investigation	6/16/2011	1541605.37	1473043.32	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-196		Initial Soil Investigation	6/16/2011	1541613.16	1473054.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-197		Initial Soil Investigation	6/16/2011	1541625.28	1473043.11	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-198		Initial Soil Investigation	6/16/2011	1541633.16	1473054.20	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-199		Initial Soil Investigation	6/9/2011	1541645.25	1473042.84	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-200		Initial Soil Investigation	6/9/2011	1541653.15	1473053.97	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-201		Initial Soil Investigation	6/9/2011	1541665.28	1473042.79	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-202		Initial Soil Investigation	6/9/2011	1541672.11	1473053.77	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-203		Initial Soil Investigation	6/9/2011	1541685.31	1473042.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-204		Initial Soil Investigation	6/8/2011	1541693.17	1473053.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-205		Initial Soil Investigation	6/8/2011	1541705.28	1473042.31	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-206		Initial Soil Investigation	6/8/2011	1541713.12	1473053.56	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-207		Initial Soil Investigation	6/8/2011	1541725.30	1473042.23	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-208		Initial Soil Investigation	6/8/2011	1541733.10	1473053.23	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-209		Initial Soil Investigation	6/8/2011	1541745.31	1473042.03	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-210		Initial Soil Investigation	6/7/2011	1541753.14	1473052.91	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-211		Initial Soil Investigation	6/7/2011	1541765.28	1473041.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-212		Initial Soil Investigation	6/7/2011	1541773.00	1473052.78	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-213		Initial Soil Investigation	6/7/2011	1541785.23	1473041.67	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes
DP-214		Initial Soil Investigation	6/7/2011	1541793.11	1473052.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-215		Initial Soil Investigation	6/7/2011	1541805.23	1473041.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-216		Initial Soil Investigation	6/7/2011	1541813.19	1473052.42	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-217		Initial Soil Investigation	6/7/2011	1541825.26	1473041.29	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-218		Initial Soil Investigation	6/6/2011	1541833.14	1473052.16	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-219		Initial Soil Investigation	6/6/2011	1541845.30	1473041.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-220		Initial Soil Investigation	6/6/2011	1541853.11	1473052.01	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-221		Initial Soil Investigation	6/6/2011	1541865.27	1473040.92	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-222		Initial Soil Investigation	6/6/2011	1541873.10	1473051.78	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-223		Initial Soil Investigation	6/5/2011	1541885.25	1473040.76	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-224		Initial Soil Investigation	6/5/2011	1541893.16	1473051.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-225		Initial Soil Investigation	6/5/2011	1541905.29	1473040.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-226		Initial Soil Investigation	6/5/2011	1541913.10	1473051.30	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-227		Initial Soil Investigation	6/5/2011	1541925.18	1473040.40	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-228		Initial Soil Investigation	6/5/2011	1541933.06	1473051.12	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-229		Initial Soil Investigation	6/5/2011	1541945.15	1473040.21	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-230		Initial Soil Investigation	6/5/2011	1541953.12	1473050.89	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-231		Initial Soil Investigation	6/4/2011	1541965.20	1473039.98	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-232		Initial Soil Investigation	6/4/2011	1541973.04	1473050.79	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-233		Initial Soil Investigation	6/4/2011	1541985.20	1473039.86	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-234		Initial Soil Investigation	6/4/2011	1541992.98	1473046.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-235		Initial Soil Investigation	6/4/2011	1542005.19	1473039.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-236		Initial Soil Investigation	6/4/2011	1542013.02	1473050.32	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-237		Initial Soil Investigation	6/4/2011	1542033.00	1473050.09	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-238		Initial Soil Investigation	6/4/2011	1542053.06	1473049.87	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-239		Initial Soil Investigation	6/3/2011	1542072.99	1473049.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-240		Initial Soil Investigation	6/3/2011	1542093.02	1473049.46	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-241		Initial Soil Investigation	6/3/2011	1542113.04	1473049.18	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-242		Initial Soil Investigation	6/3/2011	1542132.98	1473048.92	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-243		Initial Soil Investigation	6/3/2011	1542152.99	1473048.79	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-244		Initial Soil Investigation	6/3/2011	1542173.01	1473048.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-245		Initial Soil Investigation	6/3/2011	1542193.04	1473048.38	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-246		Initial Soil Investigation	6/3/2011	1542212.93	1473048.10	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-247		Initial Soil Investigation	6/2/2011	1542233.00	1473047.93	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-248		Initial Soil Investigation	6/2/2011	1542252.95	1473047.72	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-249		Initial Soil Investigation	6/2/2011	1542272.96	1473046.46	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-250		Initial Soil Investigation	6/2/2011	1542292.90	1473046.35	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-251		Initial Soil Investigation	6/2/2011	1542312.92	1473046.08	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-252		Initial Soil Investigation	6/2/2011	1542332.87	1473045.85	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-253		Initial Soil Investigation	6/2/2011	1542352.92	1473045.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-254		Initial Soil Investigation	6/2/2011	1542372.96	1473045.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-255		Initial Soil Investigation	8/1/2011	1542379.65	1473020.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-256		Initial Soil Investigation	8/2/2011	1542369.71	1473020.56	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-257		Initial Soil Investigation	8/2/2011	1542379.53	1473000.56	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-258		Initial Soil Investigation	8/2/2011	1542369.47	1473000.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-259		Initial Soil Investigation	8/2/2011	1542379.36	1472980.51	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	Yes

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-260		Initial Soil Investigation	8/2/2011	1542369.25	1472980.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-261		Initial Soil Investigation	8/9/2011	1542379.01	1472960.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-262		Initial Soil Investigation	8/9/2011	1542369.10	1472960.57	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-263		Initial Soil Investigation	8/9/2011	1542378.93	1472940.56	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-264		Initial Soil Investigation	8/9/2011	1542368.83	1472940.57	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-265		Initial Soil Investigation	8/9/2011	1542378.67	1472920.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-266		Initial Soil Investigation	8/9/2011	1542368.66	1472920.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-267		Initial Soil Investigation	8/9/2011	1542378.55	1472900.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-268		Initial Soil Investigation	8/9/2011	1542368.41	1472900.61	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-269		Initial Soil Investigation	8/10/2011	1542378.26	1472880.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-270		Initial Soil Investigation	8/10/2011	1542368.28	1472880.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-271		Initial Soil Investigation	8/10/2011	1542378.02	1472860.51	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-272		Initial Soil Investigation	8/10/2011	1542368.08	1472860.55	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-273		Initial Soil Investigation	8/10/2011	1542377.83	1472840.53	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-274		Initial Soil Investigation	8/10/2011	1542367.89	1472840.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-275		Initial Soil Investigation	8/10/2011	1542377.62	1472820.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-276		Initial Soil Investigation	8/10/2011	1542367.67	1472820.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-277		Initial Soil Investigation	8/11/2011	1542377.36	1472800.49	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-278		Initial Soil Investigation	8/11/2011	1542367.39	1472800.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-279		Initial Soil Investigation	8/1/2011	1542372.90	1473037.58	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-280		Initial Soil Investigation	8/1/2011	1542352.97	1473037.85	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-281		Initial Soil Investigation	8/1/2011	1542332.92	1473038.02	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-282		Initial Soil Investigation	8/1/2011	1542312.92	1473038.17	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-283		Initial Soil Investigation	8/1/2011	1542292.95	1473038.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-284		Initial Soil Investigation	8/1/2011	1542272.92	1473038.65	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-285		Initial Soil Investigation	7/29/2011	1542252.83	1473038.81	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-286		Initial Soil Investigation	7/29/2011	1542232.94	1473039.04	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-287		Initial Soil Investigation	7/29/2011	1542212.87	1473039.24	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-288		Initial Soil Investigation	7/29/2011	1542192.92	1473039.51	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-289		Initial Soil Investigation	7/29/2011	1542172.88	1473039.62	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-290		Initial Soil Investigation	7/28/2011	1542152.89	1473039.90	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-291		Initial Soil Investigation	7/28/2011	1542132.96	1473040.00	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-292		Initial Soil Investigation	7/28/2011	1542112.93	1473040.27	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-293		Initial Soil Investigation	7/28/2011	1542092.92	1473040.41	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-294		Initial Soil Investigation	7/28/2011	1542072.92	1473040.71	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-295		Initial Soil Investigation	7/28/2011	1542053.01	1473040.93	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-296		Initial Soil Investigation	7/28/2011	1542032.93	1473041.06	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-297		Initial Soil Investigation	7/28/2011	1542012.95	1473041.33	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-298		Initial Soil Investigation	7/21/2011	1542012.16	1473019.52	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-299		Initial Soil Investigation	7/21/2011	1542002.18	1473019.66	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-300		Initial Soil Investigation	7/21/2011	1542011.93	1472999.55	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-301		Initial Soil Investigation	7/21/2011	1542001.94	1472999.59	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-302		Initial Soil Investigation	7/26/2011	1542011.66	1472979.48	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-303		Initial Soil Investigation	7/26/2011	1542001.73	1472979.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-304		Initial Soil Investigation	7/26/2011	1542011.43	1472959.51	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-305		Initial Soil Investigation	7/26/2011	1542001.42	1472959.57	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-306		Initial Soil Investigation	7/26/2011	1542011.21	1472939.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-307		Initial Soil Investigation	7/26/2011	1542001.18	1472939.63	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-308		Initial Soil Investigation	7/26/2011	1542010.99	1472919.45	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-309		Initial Soil Investigation	7/26/2011	1542000.94	1472919.66	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-310		Initial Soil Investigation	7/27/2011	1542010.74	1472899.54	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-311		Initial Soil Investigation	7/27/2011	1542000.74	1472899.59	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-312		Initial Soil Investigation	7/27/2011	1542010.62	1472879.49	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-313		Initial Soil Investigation	7/27/2011	1542000.56	1472879.61	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-314		Initial Soil Investigation	7/27/2011	1542010.28	1472859.48	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-315		Initial Soil Investigation	7/27/2011	1542000.33	1472859.60	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-316		Initial Soil Investigation	7/27/2011	1542010.06	1472839.55	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-317		Initial Soil Investigation	7/27/2011	1542000.15	1472839.50	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-318		Initial Soil Investigation	Samples Not Collected					
DP-319		Initial Soil Investigation	7/21/2011	1541512.13	1473098.67	0 - 21	TPH-DRO, TPH-GRO, VOCs, SVOCs, Lead	No
DP-320	DP-017	First Step-Out Round	4/2/2012	1541194.97	1473509.62	0 - 1	Benzo(a)pyrene	No
DP-321	DP-023	First Step-Out Round	4/2/2012	1541215.04	1473509.69	15 - 16	Naphthalene	No
DP-322	DP-024, DP-025	First Step-Out Round	4/2/2012	1541225.00	1473528.75	20 - 21	Naphthalene	No
DP-323	DP-026	First Step-Out Round	4/2/2012	1541225.09	1473509.75	0 - 1	Benzo(a)pyrene	No
DP-324	DP-029	First Step-Out Round	4/2/2012	1541235.03	1473509.67	20 - 21	Naphthalene	No
DP-325	DP-061	First Step-Out Round	4/2/2012	1541335.12	1473509.90	10 - 11	Benzo(a)pyrene	No
DP-326	DP-068	First Step-Out Round	4/2/2012	1541355.05	1473510.00	20 - 21	Ethylbenzene	Yes
DP-327	DP-069	First Step-Out Round	4/5/2012	1541360.07	1473515.03	10 - 11	Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene	No
						20 - 21	1,2,3-trichloropropane	
DP-328	DP-069	First Step-Out Round	4/5/2012	1541360.12	1473524.91	10 - 11	Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene	No
						20 - 21	1,2,3-trichloropropane	
DP-329	DP-075	First Step-Out Round	4/5/2012	1541375.03	1473509.92	5 - 6	Benzo(a)pyrene, dibenz(a,h)anthracene	No
DP-330	DP-076	First Step-Out Round	4/5/2012	1541384.86	1473533.01	15 - 16	Naphthalene	No
DP-331	DP-081	First Step-Out Round	4/5/2012	1541395.06	1473510.07	20 - 21	Naphthalene, ethylbenzene	Yes
DP-332	DP-084	First Step-Out Round	4/5/2012	15414505.06	1473510.06	15 - 16	Naphthalene	No
						20 - 21	Naphthalene	
DP-333	DP-095	First Step-Out Round	4/5/2012	1541413.46	1473500.20	20 - 21	Naphthalene	No
DP-334	DP-121	First Step-Out Round	4/5/2012	1541434.40	1473410.30	0 - 1	Benzo(a)pyrene	No
DP-335	DP-017	Second Step-Out Round	6/5/2013	1541194.97	1473509.62	0 - 1	Dibenz(a,h)anthracene	No
DP-336	DP-039, DP-040	Second Step-Out Round	6/5/2013	1541225.09	1473509.75	5 - 6	Benzo(a)pyrene	No
DP-337	DP-030	Second Step-Out Round	Samples Not Collected - Boring is next to electrical utility					
DP-338	DP-079	Second Step-Out Round	6/5/2013	1541255.04	1473509.70	0 - 1	Benzo(a)pyrene	No
DP-339	DP-038	Second Step-Out Round	6/5/2013	1541265.05	1473509.70	15 - 16	Benzo(a)pyrene	No
						19 - 20	Benzo(a)pyrene	
DP-340	DP-039	Second Step-Out Round	6/4/2013	1541275.08	1473532.88	15 - 16	Benzo(a)pyrene	No
DP-341	DP-106	Second Step-Out Round	6/4/2013	1541284.94	1473509.83	5 - 7	Indeno(1,2,3)pyrene	No

Table 2-1
FFOR Soil Investigation Sample Summary (2011 - 2013)

Borehole/Step-Out ID	Original Borehole ID	Designation	Completion Date	X[a]	Y[a]	Depth (feet bgs)[b]	Analytical Suite	Excavated?
DP-342	DP-035	Second Step-Out Round	6/4/2013	1541335.01	1473509.90	0 - 1	Benzo(a)pyrene	No
						5 - 6	Benzo(a)pyrene	
						10 - 12	Benzo(a)anthracene, benzo(b)fluoranthene, dibenz(a,h)anthracene	
DP-343	DP-066	Second Step-Out Round	6/5/2013	1541335.03	1473533.02	15 - 16	Benzo(a)pyrene	No
						19 - 20	1,2,3-trichloropropane	
DP-344	DP-326	Second Step-Out Round	6/5/2013	1541355.01	1473504.95	19 - 20	Ethylbenzene	Yes
DP-345	DP-075	Second Step-Out Round	6/4/2013	1541375.03	1473509.92	0 - 1	Benzo(a)pyrene	Yes
						5 - 6	Benzo(b)fluoranthene, indeno(1,2,3)pyrene	
						10 - 11	Benzo(a)pyrene, dibenz(a,h)anthracene, benzo(b)fluoranthene	
						15 - 16	Benzo(a)pyrene	
DP-346	DP-078	Second Step-Out Round	6/4/2013	1541385.01	1473509.96	5 - 6	Benzo(a)pyrene	Yes
						10 - 11	Benzo(a)pyrene	
DP-347	DP-079	Second Step-Out Round	6/4/2013	1541395.00	1473533.04	15 - 16	Benzo(a)pyrene	No
DP-348	DP-098, DP-099	Second Step-Out Round	6/4/2013	1541395.06	1473505.06	19 - 20	Naphthalene	No
DP-349	DP-125	Second Step-Out Round	6/4/2013	1541404.92	1473533.12	19 - 20	Benzo(a)pyrene	No
DP-350	DP-157	Second Step-Out Round	6/3/2013	1541413.23	1473533.15	19 - 20	Benzo(a)pyrene	No
DP-351	DP-174	Second Step-Out Round	6/3/2013	1541413.46	1473500.20	5 - 6	Benzo(a)pyrene	No
DP-352	DP-259	Second Step-Out Round	6/3/2013	1541413.52	1473490.19	10 - 11	Benzo(a)pyrene	No
						15 - 16	Benzo(a)pyrene	No
						19 - 20	Benzo(a)pyrene	No
DP-353	DP-167	Second Step-Out Round	6/4/2013	1541433.93	1473460.27	0 - 1	Benzo(a)pyrene	No
DP-354	DP-177	Second Step-Out Round	6/3/2013	1541414.48	1473390.14	5 - 6	Benzo(a)pyrene	No
DP-355	DP-193	Second Step-Out Round	Samples Not Collected - Boring is next to electrical utility					
DP-356	DP-201	Second Step-Out Round	Samples Not Collected - Boring is next to electrical utility					
DP-357	DP-213	Second Step-Out Round	6/3/2013	1541517.53	1473178.58	0 - 1	Benzo(a)pyrene	No
DP-358	DP-177	Second Step-Out Round	Samples Not Collected - Boring is next to electrical utility					
DP-359	DP-193	Second Step-Out Round	6/3/2013	1541585.39	1473038.39	5 - 6	Benzo(a)pyrene	No
DP-360	DP-201	Second Step-Out Round	6/3/2013	1541665.35	1473037.76	0 - 1	Benzo(a)pyrene	No
DP-361	DP-213	Second Step-Out Round	6/3/2013	1541785.27	1473036.67	5 - 6	Benzo(a)pyrene	No
						10 - 11	Benzo(a)pyrene	No
DP-362	DP-259	Second Step-Out Round	6/3/2013	1542384.40	1472980.50	0 - 1	Benzo(a)pyrene, dibenz(a,h)anthracene	Yes
						5 - 6	Benzo(a)pyrene	
						10 - 11	Benzo(a)pyrene	
DP-363	DP-344	Third Step-Out Round	9/10/2013	1541355.02	1473499.89	20 - 21	Ethylbenzene	No
DP-364	DP-345	Third Step-Out Round	9/12/2013	1541375.01	1473504.95	15 - 16	Benzo(a)pyrene	No
DP-365	DP-346	Third Step-Out Round	9/12/2013	1541385.00	1473504.97	10 - 11	Benzo(a)pyrene	No
DP-366	DP-362	Third Step-Out Round	9/12/2013	1542389.41	1472980.46	0 - 1	Benzo(a)pyrene	No

[a] Coordinates are in UTM, Zone 13, North American Datum of 1983.

[b] See Appendix A for specific sample depths.

AFB = Air Force Base

BFF = Bulk Fuels Facility

bgs = below ground surface

DRO = diesel range organic

FFOR = Former Fuel Off-Loading Rack

GRO = gasoline range organic

ID = identification

SVOC = semivolatile organic compound

TPH = total petroleum hydrocarbon

UTM = Universal Transverse Mercator

VOC = volatile organic compound

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Table 2-2
FFOR Soil Investigation (2011-2013) Sample Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detection Concentration (mg/kg)	Maximum Detection Concentration (mg/kg)	NMED Residential SSL (mg/kg)[b]	Samples Exceeding Screening Level
Metals by EPA Method 6010C	LEAD	1377	1377	2.12	286	400	0
TPH by EPA Method 8015D	DIESEL RANGE ORGANICS	1377	640	1.36 J	19,000	1,000-	**130**
	GASOLINE RANGE ORGANICS	1377	243	0.698 J	11,300	1,000-	**105**
SVOCS by EPA Method 8270D	1,2,4,5-TETRACHLOROBENZENE	1377	0	ND	ND	18.3	0
	1,2,4-TRICHLOROBENZENE	1377	0	ND	ND	73.0	0
	1,2-DICHLOROBENZENE	1377	0	0.0154	0.0154	2,310	0
	1,2-DIPHENYLHYDRAZINE	1377	0	ND	ND	6.08	0
	1,3-DICHLOROBENZENE	1377	0	ND	ND	NE	0
	1,4-DICHLOROBENZENE	1377	0	ND	ND	31.7	0
	2,3,4,6-TETRACHLOROPHENOL	1377	0	ND	ND	NE	0
	2,4,5-TRICHLOROPHENOL	1377	0	ND	ND	6,110	0
	2,4,6-TRICHLOROPHENOL	1377	0	ND	ND	61.1	0
	2,4-DICHLOROPHENOL	1377	0	ND	ND	183	0
	2,4-DIMETHYLPHENOL	1377	6	0.25 J	0.897	1,220	0
	2,4-DINITROPHENOL	1377	0	ND	ND	122	0
	2,4-DINITROTOLUENE	1377	0	ND	ND	15.7	0
	2,6-DICHLOROPHENOL	1377	0	ND	ND	NE	0
	2,6-DINITROTOLUENE	1377	0	ND	ND	61.1	0
	2-CHLORONAPHTHALENE	1377	0	ND	ND	6,260	0
	2-CHLOROPHENOL	1377	0	ND	ND	391	0
	2-METHYLNAPHTHALENE	1377	184	0.0102 J	93.6	NE	0
	2-METHYLPHENOL	1377	3	0.0138 J	0.0256 J	NE	0
	2-NITROANILINE	1377	0	ND	ND	NE	0
	2-NITROPHENOL	1377	0	ND	ND	NE	0
	3,3'-DICHLOROBENZIDINE	1377	0	ND	ND	10.8	0
	3-METHYLPHENOL AND 4-METHYLPHENOL	1377	3	0.0786 J	0.129 J	NE	0
	3-NITROANILINE	1377	0	ND	ND	NE	0
	4,6-DINITRO-2-METHYLPHENOL	1377	0	ND	ND	4.89	0
	4-BROMOPHENYL PHENYL ETHER	1377	0	ND	ND	NE	0
	4-CHLORO-3-METHYLPHENOL	1377	0	ND	ND	NE	0
	4-CHLOROANILINE	1377	0	ND	ND	NE	0
	4-CHLOROPHENYL PHENYL ETHER	1377	0	ND	ND	NE	0
	4-NITROANILINE	1377	0	ND	ND	NE	0
	4-NITROPHENOL	1377	0	ND	ND	NE	0
	ACENAPHTHENE	1377	29	0.0128 J	4.01 J+	3,440	0
	ACENAPHTHYLENE	1377	16	0.0154 J	0.513 J	NE	0
	ANTHRACENE	1377	133	0.0126 J	5.28 J+	17,200	0
	BENZENAMINE	1377	0	ND	ND	NE	0
	BENZO(A)ANTHRACENE	1380	140	0.0276 J	9.78 J+	1.48	**5**
	BENZO(A)PYRENE	1409	196	0.00866 J	9.04	0.148	**65**
	BENZO(B)FLUORANTHENE	1383	154	0.0261 J	9.85	1.48	**9**
	BENZO(GHI)PERYLENE	1377	230	0.0114 J	7.77	NE	0
	BENZO(K)FLUORANTHENE	1377	159	0.0142 J	6.24	14.8	0

Table 2-2
FFOR Soil Investigation (2011-2013) Sample Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detection Concentration (mg/kg)	Maximum Detection Concentration (mg/kg)	NMED Residential SSL (mg/kg)[b]	Samples Exceeding Screening Level
SVOCS by EPA Method 8270D	BIS(2-CHLOROETHOXY)METHANE	1377	0	ND	ND	NE	0
	BIS(2-CHLOROETHYL)ETHER	1377	0	ND	ND	2.68	0
	BIS(2-CHLOROISOPROPYL)ETHER	1377	0	ND	ND	91.5	0
	BIS(2-ETHYLHEXYL)PHTHALATE	1377	67	0.0206 J	0.588	347	0
	BUTYL BENZYL PHTHALATE	1377	1	0.00954 J	0.00954 J	NE	0
	CARBAZOLE	1377	52	0.0215 J	1.62 J	NE	0
	CHRYSENE	1377	213	0.0159 J	9.38	148	0
	DIBENZO(A,H)ANTHRACENE	1381	59	0.0113 J	0.839 J	0.148	**5**
	DIBENZOFURAN	1377	132	0.0121 J	3 J	NE	0
	DIETHYL PHTHALATE	1377	6	0.0232 J	0.0343 J	48,900	0
	DIMETHYL PHTHALATE	1377	0	ND	ND	611,000	0
	DI-N-BUTYL PHTHALATE	1377	36	0.015 J	0.0604 J	6,110	0
	DI-N-OCTYL PHTHALATE	1377	2	0.179 J	0.362 J	NE	0
	FLUORANTHENE	1377	310	0.00726 J	35.1	2,290	0
	FLUORENE	1377	102	0.0148 J	3.11 J	2,290	0
	HEXACHLOROBENZENE	1377	4	0.00426 J	0.031 J	3.04	0
	HEXACHLOROBUTADIENE	1377	0	ND	ND	61.1	0
	HEXACHLOROCYCLOPENTADIENE	1377	0	ND	ND	367	0
	HEXACHLOROETHANE	1377	0	ND	ND	42.8	0
	INDENO(1,2,3-CD)PYRENE	1379	130	0.0343 J	6.71	1.48	**5**
	ISOPHORONE	1377	0	ND	ND	5,120	0
	NAPHTHALENE	1387	132	0.0195 J	47.3	43.0	**2**
	NITROBENZENE	1377	0	ND	ND	53.5	0
	N-NITROSODIETHYLAMINE	1377	0	ND	ND	0.0226	0
	N-NITROSODIMETHYLAMINE	1377	0	ND	ND	0.0226	0
	N-NITROSO-DI-N-PROPYLAMINE	1377	1	0.328 J	0.328 J	NE	0
	N-NITROSODIPHENYLAMINE	1377	1	0.0127 J	0.0127 J	993	0
	PENTACHLOROBENZENE	1377	1	0.119 J	0.119 J	48.9	0
	PENTACHLOROPHENOL	1377	0	ND	ND	8.94	0
	PHENANTHRENE	1377	246	0.0115 J	29.2	1,830	0
	PHENOL	1377	1	0.332 J	0.332 J	18,300	0
	PYRENE	1377	244	0.0168 J	25.5	1,720	0
	PYRIDINE	1377	0	ND	ND	NE	0
VOCs by EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	1377	0	ND	ND	29.1	0
	1,1,1-TRICHLOROETHANE	1377	0	ND	ND	15,600	0
	1,1,2,2-TETRACHLOROETHANE	1377	0	ND	ND	8.02	0
	1,1,2-TRICHLOROETHANE	1377	1	3.12	3.12	2.81	**1**
	1,1-DICHLOROETHANE	1377	0	ND	ND	64.5	0
	1,1-DICHLOROETHENE	1377	0	ND	ND	449	0
	1,1-DICHLOROPROPENE	1377	0	ND	ND	NE	0
	1,2,3-TRICHLOROBENZENE	1377	5	0.000098 J	1.3 J	NE	0
	1,2,3-TRICHLOROPROPANE	1377	4	0.00406	1.9	0.0497	**3**
	1,2,4-TRICHLOROBENZENE	1377	5	0.000198 J	0.000685 J	73.0	0
	1,2,4-TRIMETHYLBENZENE	1377	586	0.000107 J	351	NE	0
	1,2-DIBROMO-3-CHLOROPROPANE	1377	0	ND	ND	1.86	0
	1,2-DIBROMOETHANE	1377	0	ND	ND	0.588	0
	1,2-DICHLOROBENZENE	1377	0	ND	ND	2,310	0

Table 2-2
FFOR Soil Investigation (2011-2013) Sample Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detection Concentration (mg/kg)	Maximum Detection Concentration (mg/kg)	NMED Residential SSL (mg/kg)[b]	Samples Exceeding Screening Level
VOCs by EPA Method 8260B	1,2-DICHLOROETHANE	1377	0	ND	ND	7.89	0
	1,2-DICHLOROPROPANE	1377	0	ND	ND	15.2	0
	1,3,5-TRIMETHYLBENZENE	1377	477	0.000098 J	86.5	NE	0
	1,3-DICHLOROBENZENE	1377	0	ND	ND	NE	0
	1,3-DICHLOROPROPANE	1377	0	ND	ND	NE	0
	1,4-DICHLOROBENZENE	1377	0	ND	ND	31.7	0
	1-CHLOROHEXANE	1377	2	0.000804 J	1.7	NE	0
	2,2-DICHLOROPROPANE	1377	0	ND	ND	NE	0
	2-BUTANONE	1377	667	0.000505 J	16 J	37,100	0
	2-CHLOROTOLUENE	1377	7	1.34	5.41	1,560	0
	2-HEXANONE	1377	2	0.0014 J	25.7	NE	0
	2-PROPENAL	1377	1	0.0132 J	0.0132 J	0.40	0
	2-PROPENENITRILE	1377	0	ND	ND	4.55	0
	4-CHLOROTOLUENE	1377	0	ND	ND	NE	0
	4-METHYL-2-PENTANONE	1377	10	0.00207 J	26.4 J	5,820	0
	ACETONE	1377	1070	0.00104 J	44.4 J	66,600	0
	BENZENE	1377	938	0.000092 J	1.25 J	15.4	0
	BROMOBENZENE	1377	0	ND	ND	NE	0
	BROMOCHLOROMETHANE	1377	0	ND	ND	NE	0
	BROMODICHLOROMETHANE	1377	2	0.000175 J	0.000417 J	5.41	0
	BROMOFORM	1377	4	0.000506 J	0.00398	616	0
	BROMOMETHANE	1377	6	0.00103 J	0.0851 J	16.5	0
	CARBON DISULFIDE	1377	9	0.000634 J	0.00263 J	1,530	0
	CARBON TETRACHLORIDE	1377	0	ND	ND	10.8	0
	CHLOROBENZENE	1377	1	0.000794 J	0.000794 J	376	0
	CHLOROETHANE	1377	0	ND	ND	29,800	0
	CHLOROFORM	1377	64	0.000227 J	3.59 J	5.86	0
	CHLOROMETHANE	1377	6	1.04 J	2.21 J	275	0
	CIS-1,2-DICHLOROETHENE	1377	0	ND	ND	156	0
	CIS-1,3-DICHLOROPROPENE	1377	0	ND	ND	NE	0
	DIBROMOCHLOROMETHANE	1377	2	0.000252 J	0.00127 J	12.1	0
	DIBROMOMETHANE	1377	0	ND	ND	51.6	0
	DICHLORODIFLUOROMETHANE	1377	0	ND	ND	168	0
	ETHYLBENZENE	1384	533	0.000193 J	227 J	68.4	**8**
	HEXACHLOROBUTADIENE	1377	0	ND	ND	61.1	0
	ISOPROPYLBENZENE	1377	122	0.00161 J	49.7	2,430	0
	M,P-XYLENES	1377	581	0.000303 J	378	NE	0
	METHYL TERT-BUTYL ETHER	1377	0	ND	ND	901	0
	METHYLENE CHLORIDE	1377	24	0.000557 J	4.6 J	409	0
	NAPHTHALENE	1377	193	0.000212 J	90.6	43.0	**13**
	N-BUTYLBENZENE	1377	112	0.000221 J	128	NE	0
	N-PROPYLBENZENE	1377	134	0.000098 J	81.9	NE	0
	O-XYLENE	1377	455	0.000122 J	175	898	0
	P-ISOPROPYLTOLUENE	1377	164	0.000094 J	51	NE	0
	SEC-BUTYLBENZENE	1377	137	0.00013 J	78.5	NE	0
	STYRENE	1377	2	0.00104 J	0.00198 J	7,280	0

Table 2-2
FFOR Soil Investigation (2011-2013) Sample Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detection Concentration (mg/kg)	Maximum Detection Concentration (mg/kg)	NMED Residential SSL (mg/kg)[b]	Samples Exceeding Screening Level
VOCs by EPA Method 8260B	TERT-BUTYLBENZENE	1377	0	ND	ND	NE	0
	TETRACHLOROETHENE	1377	6	0.000218 J	0.0143 J	7.02	0
	TOLUENE	1377	751	0.000242 J	44.5	5,270	0
	TRANS-1,2-DICHLOROETHENE	1377	0	ND	ND	270	0
	TRANS-1,3-DICHLOROPROPENE	1377	0	ND	ND	NE	0
	TRICHLOROETHENE	1377	0	ND	ND	8.77	0
	TRICHLOROFLUOROMETHANE	1377	0	ND	ND	1,410	0
	VINYL ACETATE	1377	0	ND	ND	2,560	0
	VINYL CHLORIDE	1377	0	ND	ND	0.728	0
	XYLENES	1377	558	0.000384 J	552	814	0

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods*, EPA Publication SW-846, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

AFB = Air Force Base
BFF = Bulk Fuels Facility
EPA = U.S. Environmental Protection Agency
FFOR = Former Fuel Off-Loading Rack
mg/kg = milligram per kilogram
ND = Not detected
NE = Not established
NMED = New Mexico Environment Department
SSL = Soil Screening Level
SVOC = semivolatile organic compound
VOC = volatile organic compound

Table 3-1
FFOR Confirmation Sample Summary

Initial Soil Investigation Boring ID	Confirmation Sample ID	Sample Number	Sample Date	X[a]	Y[a]	Sample Depth (feet bgs)	Sample Location within Excavation	Analytical Suite
DP-016, DP017	FFOR-EXC-01	FFOR-CF-0001	6/30/2014	1541188.77	1473512.86	2.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-02	FFOR-CF-0002	6/30/2014	1541183.13	1473518.61	2.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-03	FFOR-CF-0003	6/30/2014	1541194.56	1473524.09	2.5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-04	FFOR-CF-0004	6/30/2014	1541193.11	1473518.22	5	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-035	FFOR-EXC-05	FFOR-CF-0005	6/30/2014	1541249.26	1473514.66	2.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-06	FFOR-CF-0006	6/30/2014	1541252.53	1473511.99	2.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-044	FFOR-EXC-07	FFOR-CF-0007	6/30/2014	1541286.98	1473519.02	5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-08	FFOR-CF-0008	6/30/2014	1541290.23	1473514.99	5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-09	FFOR-CF-0009	7/1/2014	1541283.72	1473514.86	10	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-054	FFOR-EXC-10	FFOR-CF-0010	7/1/2014	1541309.70	1473520.72	5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0011 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-11	FFOR-CF-0012	7/1/2014	1541315.70	1473523.65	5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-12	FFOR-CF-0013	7/1/2014	1541321.11	1473519.90	5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-13	FFOR-CF-0014	7/1/2014	1541315.02	1473517.68	5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-14	FFOR-CF-0015	7/1/2014	1541315.07	1473520.71	10	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-193	FFOR-EXC-15	FFOR-CF-0016	7/2/2014	1541575.58	1473045.69	5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-16	FFOR-CF-0017	7/2/2014	1541586.40	1473053.24	5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-17	FFOR-CF-0018	7/2/2014	1541598.36	1473044.37	5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-18	FFOR-CF-0019	7/2/2014	1541588.08	1473039.22	5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-19	FFOR-CF-0020	7/2/2014	1541587.04	1473045.49	10	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-201	FFOR-EXC-20	FFOR-CF-0021	7/2/2014	1541652.70	1473043.95	2.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0022 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-21	FFOR-CF-0023	7/2/2014	1541664.59	1473048.63	2.5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-22	FFOR-CF-0024	7/2/2014	1541676.17	1473042.86	2.5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-23	FFOR-CF-0025	7/2/2014	1541664.77	1473038.19	2.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-24	FFOR-CF-0026	7/2/2014	1541665.27	1473043.04	5	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-259, DP-362	FFOR-EXC-25	FFOR-CF-0027	7/3/2014	1542388.13	1472981.28	2.5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-26	FFOR-CF-0028	7/3/2014	1542381.79	1472994.17	7.5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-27	FFOR-CF-0029	7/3/2014	1542374.26	1472982.38	7.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-28	FFOR-CF-0030	7/3/2014	1542380.74	1472971.68	7.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-29	FFOR-CF-0031	7/18/2014	1542382.13	1472983.33	15	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-213	FFOR-EXC-30	FFOR-CF-0032	7/25/2014	1541792.26	1473038.46	7.5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0033 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-31	FFOR-CF-0034	7/25/2014	1541783.05	1473031.34	7.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-32	FFOR-CF-0035	7/25/2014	1541772.01	1473037.00	7.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-33	FFOR-CF-0036	7/25/2014	1541782.21	1473044.12	7.5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-34	FFOR-CF-0037	7/25/2014	1541783.00	1473038.15	15	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-095, DP-096, DP-098, DP-099	FFOR-EXC-35	FFOR-CF-0038	7/29/2014	1541421.29	1473510.00	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-36	FFOR-CF-0039	7/29/2014	1541427.72	1473503.15	10	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-37	FFOR-CF-0040	7/29/2014	1541414.06	1473502.88	10	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-38	FFOR-CF-0041	7/31/2014	1541421.15	1473503.09	20	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-078, DP-346	FFOR-EXC-39	FFOR-CF-0042	8/7/2014	1541383.23	1473504.98	7.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-065, DP-066, DP-067, DP-068, DP-326, DP-344	FFOR-EXC-40	FFOR-CF-0043	8/18/2014	1541347.90	1473515.20	10	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0044 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-41	FFOR-CF-0045	8/18/2014	1541354.02	1473501.16	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-42	FFOR-CF-0046	8/19/2014	1541355.19	1473526.99	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-43	FFOR-CF-0047	8/19/2014	1541355.16	1473514.46	20	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead

Table 3-1
FFOR Confirmation Sample Summary

Initial Soil Investigation Boring ID	Confirmation Sample ID	Sample Number	Sample Date	X[a]	Y[a]	Sample Depth (feet bgs)	Sample Location within Excavation	Analytical Suite
DP-024, DP-025, DP-026, DP-028, DP-029	FFOR-EXC-44	FFOR-CF-0048	8/20/2014	1541238.77	1473515.80	10	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-45	FFOR-CF-0049	8/20/2014	1541220.09	1473523.06	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-46	FFOR-CF-0050	8/20/2014	1541233.65	1473510.19	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-47	FFOR-CF-0051	8/21/2014	1541218.71	1473516.93	20	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-076, DP-079	FFOR-EXC-48	FFOR-CF-0052	8/27/2014	1541389.99	1473526.19	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-076, DP-077	FFOR-EXC-49	FFOR-CF-0053	8/27/2014	1541380.04	1473514.49	20	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-71, DP-074, DP-075, DP345	FFOR-EXC-50	FFOR-CF-0054	9/2/2014	1541375.09	1473524.18	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0055 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-019, DP-022, DP-023	FFOR-EXC-51	FFOR-CF-0056	9/2/2014	1541208.52	1473511.78	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-030	FFOR-EXC-52	FFOR-CF-0057	9/2/2014	1541244.46	1473526.38	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-53	FFOR-CF-0058	9/2/2014	1541250.81	1473522.35	10	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-54	FFOR-CF-0059	9/2/2014	1541246.14	1473520.33	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-55	FFOR-CF-0060	9/2/2014	1541246.31	1473523.42	20	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-037, DP-038, DP-039, DP-040	FFOR-EXC-56	FFOR-CF-0061	9/3/2014	1541280.76	1473523.48	10	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-57	FFOR-CF-0062	9/3/2014	1541274.25	1473515.92	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-101	FFOR-EXC-58	FFOR-CF-0063	9/4/2014	1541426.88	1473479.63	5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-59	FFOR-CF-0064	9/4/2014	1541423.06	1473475.38	5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-60	FFOR-CF-0065	9/4/2014	1541420.52	1473479.71	5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0066 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-61	FFOR-CF-0067	9/4/2014	1541423.19	1473480.56	10	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-071	FFOR-EXC-62	FFOR-CF-0068	9/4/2014	1541366.03	1473515.58	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-084	FFOR-EXC-63	FFOR-CF-0069	9/4/2014	1541407.73	1473518.55	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-64	FFOR-CF-0070	9/4/2014	1541410.19	1473514.78	10	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-65	FFOR-CF-0071	9/4/2014	1541406.84	1473511.70	10	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-66	FFOR-CF-0072	9/5/2014	1541400.64	1473514.67	20	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-037, DP-038	FFOR-EXC-67	FFOR-CF-0073	9/5/2014	1541260.00	1473523.92	10	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-68	FFOR-CF-0074	9/5/2014	1541259.88	1473517.95	20	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
DP-061	FFOR-EXC-69	FFOR-CF-0075	9/5/2014	1541333.29	1473517.99	7.5	North SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-70	FFOR-CF-0076	9/5/2014	1541339.10	1473513.99	7.5	East SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
		FFOR-CF-0077 (FD)						VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-71	FFOR-CF-0111	9/5/2014	1541333.25	1473510.95	7.5	South SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-72	FFOR-CF-0112	9/5/2014	1541329.29	1473514.63	7.5	West SW	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
	FFOR-EXC-73	FFOR-CF-0113	9/5/2014	1541334.17	1473514.45	15	Floor	VOCs, SVOCs, TPH-GRO, TPH-DRO, Lead
Step-Out Confirmation Samples								
FFOR-EXC-02	FFOR-EXCSO-01	FFOR-CF-0078	7/21/2014	1541177.20	1473518.29	2.5	West SW	PAHs
FFOR-EXC-06	FFOR-EXCSO-02	FFOR-CF-0079	7/24/2014	1541252.64	1473509.02	2.5	South SW	PAHs
FFOR-EXC-13	FFOR-EXCSO-03	FFOR-CF-0080	7/24/2014	1541314.19	1473513.66	5	South SW	PAHs
FFOR-EXCSO-01	FFOR-EXCSO-04	FFOR-CF-0081	7/24/2014	1541171.45	1473517.63	2.5	West SW	PAHs
FFOR-EXC-30	FFOR-EXCSO-05	FFOR-CF-0082	8/15/2014	1541802.85	1473037.27	7.5	East SW	PAHs
FFOR-EXC-44	FFOR-EXCSO-06	FFOR-CF-0083	9/3/2014	1541243.96	1473515.18	10	East SW	PAHs
FFOR-EXC-06	FFOR-EXCSO-07	FFOR-CF-0084	9/5/2014	1541262.21	1473508.69	10	South SW	PAHs
		FFOR-CF-0085 (FD)						PAHs
FFOR-EXC-51	FFOR-EXCSO-08	FFOR-CF-0086	9/8/2014	1541212.44	1473509.76	10	South SW	PAHs
FFOR-EXC-54	FFOR-EXCSO-09	FFOR-CF-0087	9/8/2014	1541246.28	1473517.36	10	South SW	PAHs
FFOR-EXC-57	FFOR-EXCSO-10	FFOR-CF-0088	9/8/2014	1541273.92	1473511.98	10	South SW	PAHs
FFOR-EXC-61	FFOR-EXCSO-11	FFOR-CF-0089	9/10/2014	1541423.85	1473480.93	20	Floor	PAHs

Table 3-1
FFOR Confirmation Sample Summary

Initial Soil Investigation Boring ID	Confirmation Sample ID	Sample Number	Sample Date	X[a]	Y[a]	Sample Depth (feet bgs)	Sample Location within Excavation	Analytical Suite
FFOR-EXC-72	FFOR-EXCSO-12	FFOR-CF-0090	9/11/2014	1541325.24	1473514.70	7.5	West SW	PAHs
FFOR-EXCSO-12	FFOR-EXCSO-13	FFOR-CF-0091	9/16/2014	1541321.11	1473515.00	7.5	West SW	PAHs
N/A	FFOR-BACKFILL-01	FFOR-BF-0001	6/20/2014	1557577.09	1467953.42	0	N/A	VOCs, SVOCs, TPH-GRO, TPH-DRO, RCRA metals, PCBs, PAHs, Pesticides, Herbicides

[a] Coordinates are in UTM, Zone 13, North American Datum of 1983.

AFB = Air Force Base
BFF = Bulk Fuels Facility
bgs = below ground surface
DRO = diesel range organics
FD = field duplicate
FFOR = Former Fuel Off-Loading Rack
GRO = gasoline range organics
ID = identification
N/A = Not applicable
PAH = polynuclear aromatic hydrocarbon
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
SW = sidewall of excavation
TPH = total petroleum hydrocarbons
UTM = Universal Transverse Mercator
VOC = volatile organic compound

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Table 3-2
FFOR Confirmation Soil Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detected Concentration (mg/kg)	Maximum Detected Concentration (mg/kg)	NMED Residential SSLs (mg/kg)[b]	Samples Exceeding Screening Levels
Metals EPA Method 6010B	LEAD	80	80	1.1	80	400	0
TPH EPA Method 8015D	DIESEL RANGE ORGANICS	80	31	6.3 J	11,000	1,000[c]	**12**
	GASOLINE RANGE ORGANICS	80	26	0.54 J	5,000	1,000[c]	**6**
	MOTOR OIL RANGE ORGANICS	80	3	67	230	1,000[c]	0
SVOCs EPA Method 8270C	2-METHYLNAPHTHALENE	80	11	0.41 J	29	NE	0
	3-METHYLPHENOL AND 4-METHYLPHENOL	80	2	0.075 J	0.077 J	NE	0
	ANTHRACENE	80	5	0.047 J	2.2 J-	17,200	0
	BENZO(A)ANTHRACENE	80	32	0.1 J	11 J-	1.48	**3**
	BENZO(A)PYRENE	80	22	0.07 J	13 J-	0.148	**16**
	BENZO(B)FLUORANTHENE	80	26	0.083 J	16 J-	1.48	**3**
	BENZO(GHI)PERYLENE	80	25	0.086 J	5.5 J-	NE	0
	BENZO(K)FLUORANTHENE	80	7	0.09 J	7 J-	14.8	0
	BIS(2-ETHYLHEXYL)PHTHALATE	80	5	0.095 J	1.1 J-	347	0
	CARBAZOLE	80	2	0.073 J	0.79 J-	NE	0
	CHRYSENE	80	30	0.056 J	17	148	0
	DIBENZO(A,H)ANTHRACENE	80	8	0.071 J	1.9 J-	0.148	**5**
	DIBENZOFURAN	80	7	0.13 J	1.1 J	NE	0
	DI-N-BUTYL PHTHALATE	80	8	0.049 J	0.086 J	6,110	0
	FLUORANTHENE	80	20	0.058 J	19 J-	2,290	0
	FLUORENE	80	5	0.089 J	0.19 J	2,290	0
	INDENO(1,2,3-CD)PYRENE	80	19	0.092 J	5.9 J-	1.48	**3**
	NAPHTHALENE	80	13	0.21 J	17	43	0
	PHENANTHRENE	80	14	0.041 J	5.8 J-	1,830	0
	PYRENE	80	26	0.063 J	24 J-	1,720	0
VOCs EPA Method 8260B	1,2,4-TRIMETHYLBENZENE	80	18	0.001 J	100	NE	0
	1,3,5-TRIMETHYLBENZENE	80	13	0.36 J+	25	NE	0
	2-BUTANONE	80	11	0.0098	2.4 J-	37,100	0
	ACETONE	80	46	0.0038 J-	4.6 J	66,600	0
	BENZENE	80	10	0.0008 J	0.068 J	15.4	0
	BROMOMETHANE	80	1	0.0008 J-	0.0008 J-	16.5	0
	ETHYLBENZENE	80	10	0.0009 J	20	68.4	0
	ISOPROPYLBENZENE	80	8	0.27 J	8.3	2,430	0
	METHYLENE CHLORIDE	80	5	0.13 J	0.48 J	409	0
	NAPHTHALENE	80	14	0.27 J+	28 J+	43	0
	N-BUTYLBENZENE	80	11	0.15 J	43	NE	0
	N-PROPYLBENZENE	80	9	0.52	24	NE	0
	P-ISOPROPYLTOLUENE	80	12	0.27 J	15	NE	0

Table 3-2
FFOR Confirmation Soil Results Summary for Detected Analytes

Chemical Class & Analytical Method[a]	Parameter	Number of Samples Collected	Number of Detections	Minimum Detected Concentration (mg/kg)	Maximum Detected Concentration (mg/kg)	NMED Residential SSLs (mg/kg)[b]	Samples Exceeding Screening Levels
VOCs EPA Method 8260B	SEC-BUTYLBENZENE	80	9	0.38J	19	NE	0
	TERT-BUTYLBENZENE	80	5	0.067 J+	0.25 J+	NE	0
	TOLUENE	80	20	0.0008 J	4.4	5,270	0
	TRICHLOROETHENE	80	1	0.06 J+	0.06 J+	8.77	0
	XYLENES	80	16	0.0022	46 J+	814	0
PAHs EPA Method 8270C SIM	1-METHYL NAPHTHALENE	13	2	0.079	0.33	NE	0
	2-METHYLNAPHTHALENE	13	1	0.068	0.068	NE	0
	ACENAPHTHENE	13	1	0.023 J+	0.023 J+	3,440	0
	ACENAPHTHYLENE	13	1	0.093 J+	0.093 J+	NE	0
	ANTHRACENE	13	5	0.0067 J	0.13 J+	17,200	0
	BENZO(A)ANTHRACENE	13	5	0.0056 J	0.63 J+	1.48	0
	BENZO(A)PYRENE	13	6	0.011 J+	0.95 J+	0.148	**1**
	BENZO(B)FLUORANTHENE	13	10	0.018 J	1.4 J+	1.48	0
	BENZO(GHI)PERYLENE	13	11	0.0064 J	0.75 J+	NE	0
	BENZO(K)FLUORANTHENE	13	2	0.044	0.51 J+	14.8	0
	CHRYSENE	13	10	0.005 J	0.71 J+	148	0
	DIBENZO(A,H)ANTHRACENE	13	7	0.0083 J	0.32 J+	0.148	**2**
	FLUORANTHENE	13	6	0.0086 J	0.58 J+	2,290	0
	FLUORENE	13	2	0.017 J+	0.024	2,290	0
	INDENO(1,2,3-CD)PYRENE	13	10	0.013	0.65 J+	1.48	0
	NAPHTHALENE	13	3	0.011 J	0.01 J	43	0
	PHENANTHRENE	13	4	0.0066 J	0.14 J+	1,830	0
	PYRENE	13	8	0.006 J	0.51 J+	1,720	0

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods* , EPA Publication SW-846, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document* , NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of *Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1* , NMED, 2012 (updated June 2012). TPH contamination did not drive removal based on results of confirmation samples in accordance with the December 10, 2010 NMED directive letter. Rather than excavating soil based solely on TPH concentrations, the individual petroleum-based constituents were analyzed for, and any exceedances were excavated.

AFB = Air Force Base
BFF = Bulk Fuels Facility
EPA = U.S. Environmental Protection Agency
FFOR = Former Fuel Off-Loading Rack
J = Estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).
J+ = Estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.
J- = Estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.
LOQ = limit of quantitation
mg/kg = milligram per kilogram
ND = Not detected
NE = Not established
NMED = New Mexico Environment Department
PAH = polynuclear aromatic hydrocarbon
SSL = Soil Screening Level
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbons
VOC = volatile organic compound

Table 3-3
Excavation Compaction Results

Compaction Zone[a]	Excavation Location ID	Excavation Depth (feet bgs)	Depth of Compaction/ Density Test (feet)[b]	Number of Compactor Passes[c]	Wet Density (lbs/feet^3)	Moisture (%)	Dry Density (lbs/feet^3)	Percent Compacted (%)
1	DP-019	20	4	2	126	6	118.9	91
			2	2	125.2	4.3	120	92
	DP-023, DP-024, DP-025, DP-026, DP-028, DP-029[d]	10 - 20	13	2	125.3	5.2	119.2	92
			12	2	126.8	5.7	120	92
			11	2	124.1	5.3	117.9	91
			10	2	125.4	6	118.3	91
			9	2	127.5	6.3	119.9	92
			8	2	125.1	6.3	117.6	90
			7	2	126.8	6.5	119.1	92
			6	2	129.1	6.5	121.3	93
			5	2	133.1	6.4	125.1	96
			4	2	132.6	5.2	125.3	96
			3	2	126.9	5.5	120.3	93
			1	2	130.7	5.6	123.2	95
			0	2	127.1	4.5	121.6	94
2	DP-035	5	3	2	123.5	5.6	117	90
	DP-037	20	0	2	126.5	4.6	121	93
	DP-039	20	2	2	125.2	4.8	119.5	92
	DP-040	20	4	2	125.4	5.7	118.7	91
	DP-044	10	0	2	125.3	4.8	119.5	92
3	DP-054	10	4	2	124.2	5.5	117.7	91
			2	2	136.1	5.5	129	99
4	DP-061	15	3	2	123.5	5.3	117.3	90
			1	2	130.6	6	123.3	95
			0	2	127.1	5	121.1	93
5	DP-066, DP-067, DP-068, DP-326, DP-344[d]	20	13	2	125.2	7.4	117	90
			12	2	130.6	7	122.1	94
			11	2	131.3	5.2	124.8	96
			10	2	130.1	5.3	123.5	95
			9	2	127.4	5.4	120.9	93
			8	2	126.1	5.4	119.6	92
			7	2	127.9	4.8	122.1	94
			6	2	124	5.8	117.2	90
			5	2	124.7	6.1	117.5	90
			4	4	123.6	5.7	117	90
			1	2	126	5	120	92

Table 3-3
Excavation Compaction Results

Compaction Zone[a]	Excavation Location ID	Excavation Depth (feet bgs)	Depth of Compaction/ Density Test (feet)[b]	Number of Compactor Passes[c]	Wet Density (lbs/feet^3)	Moisture (%)	Dry Density (lbs/feet^3)	Percent Compacted (%)
5	DP-071	20	3	2	120.4	4.6	118.4	91
	DP-075	20	2	2	121.3	3.5	117.3	90
	DP-345	20	0	2	123.9	5	118.1	91
	DP-081	20	4	2	127	7	118.7	91
6	DP-095	20	0	2	123.3	5	117.4	90
			4	2	122.9	5	117	90
	DP-096	20	1	2	122	4.3	117	90
	DP-098	20	2	2	122.4	4.7	117	90
	DP-099	20	3	2	129.8	3.5	125.4	96
7	DP-193	10	4	3	135.9	5.5	128.9	99
			3	2	132.1	4.2	126.8	98
			2	2	133.6	5.9	126.2	97
			1	2	135	4.4	129.4	100
			0	2	136.8	7	127.9	98
8	DP-201	5	4	3	128.5	3.6	124.1	95
			3	3	140.1	6.3	131.8	100
			2	3	122.6	4.9	116.9	90
			1	2	135.3	5.7	128.0	98
			0	2	132.1	5.7	125.0	96
			0	2	122.6	4.6	117.3	90
9	DP-213	15	4	3	129.2	4.3	123.9	95
			3	2	135.6	6.3	127.6	98
			2	2	132.3	5.7	125.2	96
			1	2	126	5.7	119.2	92
			0 - South	2	123.8	5.3	117.6	90
			0 - North	2	126.2	4.9	120.3	93
10	DP-259, DP-362[d]	15	15	2	138	5.7	130.5	100
			14	2	135.4	14.1	118.7	91
			14	2	133.5	7.5	124.2	96
			13	2	128.7	6.3	121.1	93
			12[e]	2	136.4	6.5	128.1	99
			12	2	126.1	7.3	117.5	90
			11[e]	2	138.6	5.6	131.6	100+
			11	2	136	6.9	127.2	98
			10[e]	2	139.7	6.3	131.4	100+
			10	2	129	5.6	122.1	94
			9	2	137	5.8	129.5	100

Table 3-3
Excavation Compaction Results

Compaction Zone[a]	Excavation Location ID	Excavation Depth (feet bgs)	Depth of Compaction/ Density Test (feet)[b]	Number of Compactor Passes[c]	Wet Density (lbs/feet^3)	Moisture (%)	Dry Density (lbs/feet^3)	Percent Compacted (%)
10	DP-259, DP-362[d]	15	8	2	138	6.5	129.6	100
			7	2	139.2	6.6	130.7	100+
			6	2	130.3	6.3	122.6	94
			5	2	124.9	6.2	117.6	90
			4	2	126.5	7.5	116.7	90
			4	2	130.7	6	122.8	94
			3	2	136.4	5.2	129.4	100
			2	2	136.3	6.3	128.2	99
			1	2	129.1	6	117.1	90
			0	2	129.5	6	122.2	94

All excavation grids were backfilled and compacted in 12-inch lifts until a compaction surface at 4 feet bgs was established. Each lift from 4 feet bgs to the surface was density-tested, except in select grids where all lifts were tested.

[a] Based on the configuration of the excavation grids, 10 compaction zones were identified for testing. Each zone is comprised of contiguous excavation grids.

[b] Field density testing using a nuclear density gauge conformed to ASTM Method D6938-10.

[c] Each 12-inch lift was compacted a minimum of two passes using a 24,000-foot-per-pound hydraulic plate compactor attached to an excavator.

[d] Select grids were backfilled in 12-inch lifts to the ground surface, and each lift was tested. AMEC test results are provided in Appendix C.

[e] Compaction lifts were removed because the trench box was unable to be pulled upward as compaction progressed. Lifts were compacted and re-tested once the trench box was freed.

% = percent

AFB = Air Force Base

BFF = Bulk Fuels Facility

bgs = below ground surface

ID = identification

lbs = pounds

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APPENDIX A

2011–2013 FFOR Soil Sample Analytical Results

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP001			DP001			DP001			DP001			DP001			DP001			DP002			DP002		
			SAMPLE NO	FFOR0004			FFOR0005			FFOR0006			FFOR0001-R			FFOR0002-R			FFOR0003-R			FFOR0007			FFOR0008		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.39	ND	U	4.59	ND	U	4.85	13		4.25	1.57	J	4.48	1.62	J	4.42	7.12		4.2	ND	U	4.7
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.42	ND	U	4.88	ND	U	11	ND	U	5.94	ND	U	6.31	ND	U	5.09	ND	U	6.86	ND	U	7.5
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	UJ	1.85	ND	UJ	1.82	ND	U	1.74	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.757	ND	U	0.804	ND	U	0.692	ND	U	0.739	ND	U	0.729	ND	U	0.696	ND	U	0.771
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	0.038	J	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.379	ND	U	0.402	0.117	J	0.346	0.0178	J	0.37	0.014	J	0.364	ND	U	0.348	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.054	J	0.348	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.0463	J	0.348	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.0482	J	0.348	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	0.0821	J	0.346	ND	U	0.37	ND	U	0.364	0.0679	J	0.348	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.0361	J	0.348	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	0.0635	J	0.346	ND	U	0.37	ND	U	0.364	0.0217	J	0.348	ND	U	0.386
	CHRYSENE	160	147	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.0641	J	0.348	ND	U	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.0122	J	0.348	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	FLUORANTHENE	2,430	2,290	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.149	J	0.348	ND	U	0.386
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.044	J	0.348	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP001			DP001			DP001			DP001			DP001			DP001			DP002			DP002		
			SAMPLE NO	FFOR0004			FFOR0005			FFOR0006			FFOR0001-R			FFOR0002-R			FFOR0003-R			FFOR0007			FFOR0008		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.89	ND	U	2.01	ND	U	1.73	ND	U	1.85	ND	U	1.82	ND	U	1.74	ND	U	1.93
	PHENANTHRENE	571	1,830	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.112	J	0.348	ND	U	0.386
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
	PYRENE	1,790	1,720	0.0212	J	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	0.118	J	0.348	ND	U	0.386
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.379	ND	U	0.402	ND	U	0.346	ND	U	0.37	ND	U	0.364	ND	U	0.348	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00125	J	0.0024	0.00164	J	0.00294	0.00104	J	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0024	0.000941	J	0.00294	0.00056	J	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	1-CHLOROHEXANE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	2-BUTANONE	25.5	37,100	ND	U	0.00601	ND	U	0.00735	ND	U	0.0057	0.000779	J	0.00545	ND	U	0.00535	0.00112	J	0.00688	ND	U	0.00622	ND	U	0.0088
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	2-HEXANONE	NE	NE	ND	U	0.00601	ND	U	0.00735	ND	U	0.0057	ND	U	0.00545	ND	U	0.00535	ND	U	0.00688	ND	U	0.00622	ND	U	0.0088
	2-PROPENAL	0.000146	0.404	ND	U	0.0301	ND	U	0.0367	ND	U	0.0285	ND	U	0.0273	ND	U	0.0267	ND	U	0.0344	ND	U	0.0311	ND	U	0.044
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0301	ND	U	0.0367	ND	U	0.0285	ND	U	0.0273	ND	U	0.0267	ND	U	0.0344	ND	U	0.0311	ND	U	0.044
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00601	ND	U	0.00735	ND	U	0.0057	ND	U	0.00545	ND	U	0.00535	ND	U	0.00688	ND	U	0.00622	ND	U	0.0088
	ACETONE	77.1	66,600	0.0172	J	0.0301	0.0236	J	0.0367	0.0207	J	0.0285	0.00393	J	0.0273	ND	U	0.0267	0.0165	J	0.0344	0.0264	J	0.0311	0.0178	J	0.044
	BENZENE	0.0345	15.4	0.00267		0.0024	0.00395		0.00294	0.00264		0.00228	0.000228	J	0.00218	ND	U	0.00214	ND	U	0.00275	0.000456	J	0.00249	ND	U	0.00352
	BROMOBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	BROMOFORM	12.1	6,116	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	BROMOMETHANE	0.0385	16.5	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CHLOROBENZENE	0.984	376	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CHLOROETHANE	107	29,800	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CHLOROFORM	0.00918	5.86	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CHLOROMETHANE	0.879	275	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	ETHYLBENZENE	0.26	68.4	ND	U	0.0024	0.000789	J	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	M,P-XYLENES	NE	NE	0.00288	J	0.00481	0.00378	J	0.00588	0.00236	J	0.00456	ND	U	0.00436	ND	U	0.00428	ND	U	0.00551	ND	U	0.00498	ND	U	0.00704
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00601	ND	U	0.00735	ND	U	0.0057	ND	U	0.00545	ND	U	0.00535	ND	U	0.00688	ND	U	0.00622	ND	U	0.0088
	NAPHTHALENE	0.0713	43.0	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	N-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	N-PROPYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	O-XYLENE	3.13	898	0.000785	J	0.0024	0.0011	J	0.00294	0.000614	J	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP001			DP001			DP001			DP001			DP001			DP001			DP002			DP002		
		SAMPLE NO		FFOR0004			FFOR0005			FFOR0006			FFOR0001-R			FFOR0002-R			FFOR0003-R			FFOR0007			FFOR0008		
		SAMPLE DATE		18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	STYRENE	27.7	7,280	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TOLUENE	25.3	5,270	0.00386		0.0024	0.0052		0.00294	0.00343		0.00228	0.000414	J	0.00218	ND	U	0.00214	ND	U	0.00275	0.000921	J	0.00249	ND	U	0.00352
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	VINYL ACETATE	1.52	2,560	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0024	ND	U	0.00294	ND	U	0.00228	ND	U	0.00218	ND	U	0.00214	ND	U	0.00275	ND	U	0.00249	ND	U	0.00352
	XYLENES	3.13	814	0.00368	J	0.00721	0.00487	J	0.00882	0.00297	J	0.00684	ND	U	0.00654	ND	U	0.00642	ND	U	0.00826	ND	U	0.00746	ND	U	0.0106
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.43	J-	0.66	8.09		0.69	7.77		0.73	5.23		0.64	3.37		0.68	3.21		0.66	12.3		0.64	3.11		1.41

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP002			DP002			DP002			DP003			DP003			DP003			DP003			DP003				
		SAMPLE NO		FFOR0009			FFOR0010			FFOR0011			FFOR0013			FFOR0014			FFOR0015			FFOR0016			FFOR0017				
		SAMPLE DATE		18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG				
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.29	ND	U	5.03	ND	U	4.6	ND	U	4.38	2.49	J	4.45	ND	U	4.75	ND	U	4.45	ND	U	4.65		
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.55	ND	U	15.9	ND	U	7.22	ND	U	6.68	ND	U	12.6	ND	U	7.24	ND	U	7.97	ND	U	7.41		
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.711	ND	U	0.817	ND	U	0.77	ND	U	0.724	ND	U	0.737	ND	U	0.776	ND	U	0.747	ND	U	0.764		
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91		
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	CHRYSENE	160	147	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DIBENZOFURAN	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	FLUORANTHENE	2,430	2,290	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	0.00805	J	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382		

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP002			DP002			DP002			DP003			DP003			DP003			DP003			DP003		
			SAMPLE NO	FFOR0009			FFOR0010			FFOR0011			FFOR0013			FFOR0014			FFOR0015			FFOR0016			FFOR0017		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	2.04	ND	U	1.92	ND	U	1.81	ND	U	1.84	ND	U	1.94	ND	U	1.87	ND	U	1.91
	PHENANTHRENE	571	1,830	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	PYRENE	1,790	1,720	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.408	ND	U	0.385	ND	U	0.362	ND	U	0.368	ND	U	0.388	ND	U	0.374	ND	U	0.382
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	0.00174	J	0.00303	0.00137	J	0.00286
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	1-CHLOROHEXANE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	2-BUTANONE	25.5	37,100	ND	U	0.00668	ND	U	0.00705	ND	U	0.00629	ND	U	0.00709	ND	U	0.00565	ND	U	0.00584	ND	U	0.00759	ND	U	0.00715
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	2-HEXANONE	NE	NE	ND	U	0.00668	ND	U	0.00705	ND	U	0.00629	ND	U	0.00709	ND	U	0.00565	ND	U	0.00584	ND	U	0.00759	ND	U	0.00715
	2-PROPENAL	0.000146	0.404	ND	U	0.0334	ND	U	0.0353	ND	U	0.0315	ND	U	0.0355	ND	U	0.0282	ND	U	0.0292	ND	U	0.0379	ND	U	0.0358
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0334	ND	U	0.0353	ND	U	0.0315	ND	U	0.0355	ND	U	0.0282	ND	U	0.0292	ND	U	0.0379	ND	U	0.0358
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00668	ND	U	0.00705	ND	U	0.00629	ND	U	0.00709	ND	U	0.00565	ND	U	0.00584	ND	U	0.00759	ND	U	0.00715
	ACETONE	77.1	66,600	0.012	J	0.0334	0.0225	J	0.0353	0.0177	J	0.0315	0.0216	J	0.0355	0.0143	J	0.0282	0.0274	J	0.0292	0.0252	J	0.0379	0.0203	J	0.0358
	BENZENE	0.0345	15.4	0.000542	J	0.00267	0.00257	J	0.00282	0.00257		0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	0.00419		0.00303	0.00288		0.00286
	BROMOBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	BROMOFORM	12.1	6,116	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	BROMOMETHANE	0.0385	16.5	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CHLOROBENZENE	0.984	376	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CHLOROETHANE	107	29,800	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CHLOROFORM	0.00918	5.86	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CHLOROMETHANE	0.879	275	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	ETHYLBENZENE	0.26	68.4	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	M,P-XYLENES	NE	NE	ND	U	0.00534	0.0026	J	0.00564	0.00231	J	0.00503	ND	U	0.00567	ND	U	0.00452	ND	U	0.00467	0.00426	J	0.00607	0.00353	J	0.00572
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00668	ND	U	0.00705	ND	U	0.00629	ND	U	0.00709	ND	U	0.00565	ND	U	0.00584	ND	U	0.00759	ND	U	0.00715
	NAPHTHALENE	0.0713	43.0	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	N-BUTYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	N-PROPYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	O-XYLENE	3.13	898	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP002			DP002			DP002			DP003			DP003			DP003			DP003			DP003		
		SAMPLE NO		FFOR0009			FFOR0010			FFOR0011			FFOR0013			FFOR0014			FFOR0015			FFOR0016			FFOR0017		
		SAMPLE DATE		18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	STYRENE	27.7	7,280	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TOLUENE	25.3	5,270	0.00117	J	0.00267	0.00359		0.00282	0.00339		0.00252	ND	U	0.00284	0.000888	J	0.00226	0.00182	J	0.00233	0.00578		0.00303	0.00508		0.00286
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	VINYL ACETATE	1.52	2,560	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00267	ND	U	0.00282	ND	U	0.00252	ND	U	0.00284	ND	U	0.00226	ND	U	0.00233	ND	U	0.00303	ND	U	0.00286
	XYLENES	3.13	814	ND	U	0.00802	0.0026	J	0.00846	0.00231	J	0.00755	ND	U	0.00851	ND	U	0.00678	ND	U	0.007	0.00426	J	0.0091	0.00353	J	0.00859
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.32		0.64	7.39		0.75	6.23		0.7	2.49		0.66	4.42		0.66	4.55		0.71	6.97		0.68	5.91		0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP003			DP004			DP004			DP004			DP004			DP004			DP005			DP005		
			SAMPLE NO	FFOR0012-R			FFOR0018			FFOR0019			FFOR0020			FFOR0021			FFOR0022			FFOR0023			FFOR0024		
			SAMPLE DATE	26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.75	J	4.14	12.4		4.19	3.93	J	4.43	2.21	J	4.26	ND	U	4.68	ND	U	4.36	2.96	J	4.25	1.76	J	4.73
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.91	ND	U	4.28	ND	U	9.29	ND	U	5.1	ND	U	5.7	ND	U	3.94	ND	U	4.31	ND	U	5.83
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.694	ND	U	0.689	ND	U	0.726	ND	U	0.704	ND	U	0.774	ND	U	0.727	ND	U	0.69	ND	U	0.772
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.347	0.0272	J	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	ANTHRACENE	5,410	17,200	0.0307	J	0.347	0.103	J	0.344	0.0178	J	0.363	0.014	J	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	0.0276	J	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	0.0264	J	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	0.0511	J	0.347	0.0828	J	0.344	0.0124	J	0.363	0.0144	J	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0177	J	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.1	J	0.347	ND	U	0.344	ND	U	0.363	0.0274	J	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	CARBAZOLE	NE	NE	0.0213	J	0.347	0.0372	J	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	CHRYSENE	160	147	0.0331	J	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	0.0248	J	0.345	0.0215	J	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	0.0351	J	0.345	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	FLUORANTHENE	2,430	2,290	0.0519	J	0.347	0.0159	J	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	0.0393	J	0.345	0.0257	J	0.386
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP003			DP004			DP004			DP004			DP004			DP004			DP005			DP005		
			SAMPLE NO	FFOR0012-R			FFOR0018			FFOR0019			FFOR0020			FFOR0021			FFOR0022			FFOR0023			FFOR0024		
			SAMPLE DATE	26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.76	ND	U	1.94	ND	U	1.82	ND	U	1.73	ND	U	1.93
	PHENANTHRENE	571	1,830	0.0377	J	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	0.0158	J	0.386
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
	PYRENE	1,790	1,720	0.0592	J	0.347	0.0245	J	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	0.0434	J	0.345	0.0319	J	0.386
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.344	ND	U	0.363	ND	U	0.352	ND	U	0.387	ND	U	0.363	ND	U	0.345	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	UJ	0.00186	ND	U	0.00251
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	UJ	0.00186	ND	U	0.00251
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	0.000719	J	0.00207	0.000249	J	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	1-CHLOROHEXANE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	2-BUTANONE	25.5	37,100	0.00294	J	0.00501	ND	U	0.00439	ND	U	0.00601	ND	U	0.00469	ND	U	0.00518	0.00351	J	0.0039	ND	U	0.00464	ND	U	0.00628
	2-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	2-HEXANONE	NE	NE	ND	U	0.00501	ND	U	0.00439	ND	U	0.00601	ND	U	0.00469	ND	U	0.00518	ND	U	0.0039	ND	U	0.00464	ND	U	0.00628
	2-PROPENAL	0.000146	0.404	ND	U	0.025	ND	U	0.022	ND	U	0.03	ND	U	0.0235	ND	U	0.0259	ND	U	0.0195	ND	U	0.0232	ND	U	0.0314
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.025	ND	U	0.022	ND	U	0.03	ND	U	0.0235	ND	U	0.0259	ND	U	0.0195	ND	U	0.0232	ND	U	0.0314
	4-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00501	ND	U	0.00439	ND	U	0.00601	ND	U	0.00469	ND	U	0.00518	ND	U	0.0039	ND	U	0.00464	ND	U	0.00628
	ACETONE	77.1	66,600	0.0252	J	0.025	0.0249		0.022	0.00872	J	0.03	0.0127	J	0.0235	0.00936	J	0.0259	0.0115	J	0.0195	0.0131	J	0.0232	0.00927	J	0.0314
	BENZENE	0.0345	15.4	0.000345	J	0.002	ND	U	0.00176	ND	U	0.0024	0.000341	J	0.00188	0.00224		0.00207	0.000644	J	0.00156	ND	U	0.00186	ND	U	0.00251
	BROMOBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	BROMOFORM	12.1	6,116	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	BROMOMETHANE	0.0385	16.5	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CARBON DISULFIDE	5.65	1,530	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CHLOROBENZENE	0.984	376	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CHLOROETHANE	107	29,800	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CHLOROFORM	0.00918	5.86	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CHLOROMETHANE	0.879	275	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	ETHYLBENZENE	0.26	68.4	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	0.000495	J	0.00207	0.000436	J	0.00156	ND	U	0.00186	ND	U	0.00251
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	UJ	0.00186	ND	U	0.00251
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	M,P-XYLENES	NE	NE	ND	U	0.004	ND	U	0.00351	ND	U	0.00481	ND	U	0.00375	0.00175	J	0.00414	0.000568	J	0.00312	ND	U	0.00371	ND	U	0.00502
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00501	ND	U	0.00439	ND	U	0.00601	ND	U	0.00469	ND	U	0.00518	ND	U	0.0039	ND	U	0.00464	ND	U	0.00628
	NAPHTHALENE	0.0713	43.0	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	N-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	UJ	0.00186	ND	U	0.00251
	N-PROPYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	O-XYLENE	3.13	898	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	0.000432	J	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251

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		LOCATION CODE		DP003			DP004			DP004			DP004			DP004			DP004			DP005			DP005		
		SAMPLE NO		FFOR0012-R			FFOR0018			FFOR0019			FFOR0020			FFOR0021			FFOR0022			FFOR0023			FFOR0024		
		SAMPLE DATE		26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	UJ	0.00186	ND	U	0.00251
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	STYRENE	27.7	7,280	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TOLUENE	25.3	5,270	0.000687	J	0.002	0.00057	J	0.00176	ND	U	0.0024	0.000669	J	0.00188	0.00274		0.00207	0.00122	J	0.00156	ND	U	0.00186	ND	U	0.00251
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	VINYL ACETATE	1.52	2,560	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.002	ND	U	0.00176	ND	U	0.0024	ND	U	0.00188	ND	U	0.00207	ND	U	0.00156	ND	U	0.00186	ND	U	0.00251
	XYLENES	3.13	814	ND	U	0.00601	ND	U	0.00527	ND	U	0.00721	ND	U	0.00563	0.00218	J	0.00622	0.000568	J	0.00468	ND	U	0.00557	ND	U	0.00753
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.22	J-	0.63	8.84		0.62	2.79		1.34	3.45		0.64	8.43		0.7	5.32		0.66	8.01	J-	0.64	3.39		1.42

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP005			DP005			DP005			DP005			DP006			DP006			DP006			DP006		
			SAMPLE NO	FFOR0025			FFOR0026			FFOR0027			FFOR0028-R			FFOR0030			FFOR0031			FFOR0032			FFOR0033		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.25	ND	U	5.09	ND	U	4.37	ND	U	4.35	2.18	J	4.8	3.14	J	4.2	ND	U	4.9	ND	U	4.42
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.77	ND	U	6.36	ND	U	3.76	ND	U	6.09	ND	U	5.64	ND	U	5.85	ND	U	5.81	ND	U	3.93
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.836	ND	U	0.733	ND	U	0.711	ND	U	0.805	ND	U	0.687	ND	U	0.811	ND	U	0.724
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	0.0219	J	0.343	ND	U	0.406	ND	U	0.362
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	CHRYSENE	160	147	0.0159	J	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	FLUORANTHENE	2,430	2,290	0.0254	J	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	0.00977	J	0.403	0.00917	J	0.343	ND	U	0.406	ND	U	0.362
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP005			DP005			DP005			DP005			DP006			DP006			DP006			DP006		
			SAMPLE NO	FFOR0025			FFOR0026			FFOR0027			FFOR0028-R			FFOR0030			FFOR0031			FFOR0032			FFOR0033		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	2.09	ND	U	1.83	ND	U	1.78	ND	U	2.01	ND	U	1.72	ND	U	2.03	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	PYRENE	1,790	1,720	0.0249	J	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.418	ND	U	0.367	ND	U	0.356	ND	U	0.403	ND	U	0.343	ND	U	0.406	ND	U	0.362
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2,3-TRICHLOROBENZENE	NE	NE	0.000213	J	0.00192	ND	U	0.00296	0.000098	J	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00192	0.00121	J	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	0.00133	J	0.00234	ND	U	0.00162
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00192	0.000704	J	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	0.000777	J	0.00234	ND	U	0.00162
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	1-CHLOROHEXANE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	2-BUTANONE	25.5	37,100	0.00105	J	0.00479	0.0028	J	0.00739	0.000954	J	0.0041	0.0012	J	0.00541	ND	U	0.00572	0.00279	J	0.00476	0.00312	J	0.00584	0.0012	J	0.00404
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	2-HEXANONE	NE	NE	ND	U	0.00479	ND	U	0.00739	ND	U	0.0041	ND	U	0.00541	ND	U	0.00572	ND	U	0.00476	ND	U	0.00584	ND	U	0.00404
	2-PROPENAL	0.000146	0.404	ND	UJ	0.024	ND	UJ	0.037	ND	UJ	0.0205	ND	U	0.027	ND	UJ	0.0286	ND	UJ	0.0238	ND	UJ	0.0292	ND	UJ	0.0202
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.024	ND	UJ	0.037	ND	UJ	0.0205	ND	U	0.027	ND	UJ	0.0286	ND	UJ	0.0238	ND	UJ	0.0292	ND	UJ	0.0202
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00479	ND	U	0.00739	ND	U	0.0041	ND	U	0.00541	ND	U	0.00572	ND	U	0.00476	ND	U	0.00584	ND	U	0.00404
	ACETONE	77.1	66,600	0.00697	J	0.024	0.0104	J	0.037	0.00487	J	0.0205	0.00463	J	0.027	0.00554	J	0.0286	0.0131	J	0.0238	0.0123	J	0.0292	0.00586	J	0.0202
	BENZENE	0.0345	15.4	0.000279	J	0.00192	0.00319		0.00296	0.000114	J	0.00164	0.00021	J	0.00216	ND	U	0.00229	0.00025	J	0.00191	0.00365		0.00234	0.000121	J	0.00162
	BROMOBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	BROMOFORM	12.1	6,116	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	BROMOMETHANE	0.0385	16.5	ND	U	0.00192	ND	U	0.00296	0.00103	J	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CHLOROBENZENE	0.984	376	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CHLOROETHANE	107	29,800	ND	UJ	0.00192	ND	UJ	0.00296	ND	UJ	0.00164	ND	U	0.00216	ND	UJ	0.00229	ND	UJ	0.00191	ND	UJ	0.00234	ND	UJ	0.00162
	CHLOROFORM	0.00918	5.86	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CHLOROMETHANE	0.879	275	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	ETHYLBENZENE	0.26	68.4	ND	U	0.00192	0.000736	J	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	0.000741	J	0.00234	ND	U	0.00162
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	M,P-XYLENES	NE	NE	ND	U	0.00383	0.003	J	0.00591	ND	U	0.00328	ND	U	0.00433	ND	U	0.00458	ND	U	0.00381	0.00328	J	0.00467	ND	U	0.00323
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00479	ND	U	0.00739	ND	U	0.0041	ND	U	0.00541	ND	U	0.00572	ND	U	0.00476	ND	U	0.00584	ND	U	0.00404
	NAPHTHALENE	0.0713	43.0	0.00145	J	0.00192	0.00229	J	0.00296	0.00121	J	0.00164	ND	U	0.00216	0.00162	J	0.00229	0.00133	J	0.00191	0.00172	J	0.00234	ND	U	0.00162
	N-BUTYLBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	N-PROPYLBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	O-XYLENE	3.13	898	ND	U	0.00192	0.000791	J	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	0.00079	J	0.00234	ND	U	0.00162

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP005			DP005			DP005			DP005			DP006			DP006			DP006			DP006		
			SAMPLE NO	FFOR0025			FFOR0026			FFOR0027			FFOR0028-R			FFOR0030			FFOR0031			FFOR0032			FFOR0033		
			SAMPLE DATE	18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	STYRENE	27.7	7,280	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TOLUENE	25.3	5,270	ND	U	0.00192	0.00399		0.00296	ND	U	0.00164	0.000459	J	0.00216	ND	U	0.00229	ND	U	0.00191	0.00445		0.00234	ND	U	0.00162
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	VINYL ACETATE	1.52	2,560	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00192	ND	U	0.00296	ND	U	0.00164	ND	U	0.00216	ND	U	0.00229	ND	U	0.00191	ND	U	0.00234	ND	U	0.00162
	XYLENES	3.13	814	ND	U	0.00575	0.00378	J	0.00887	ND	U	0.00492	ND	U	0.00649	ND	U	0.00687	ND	U	0.00572	0.00407	J	0.00701	ND	U	0.00485
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.67		0.64	8.2		0.77	5.23		0.66	4.86		0.65	4.09		1.46	4.56		0.63	10.4		0.74	4.47		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP006			DP007			DP007			DP007			DP007			DP007			DP007			DP008		
		SAMPLE NO		FFOR0029-R			FFOR0036			FFOR0038			FFOR0039			FFOR0034-R			FFOR0035-R			FFOR0037-R			FFOR0040		
		SAMPLE DATE		26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		0-1 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.42	ND	U	4.3	ND	U	4.61	ND	U	4.58	4.58		4.09	ND	U	4.46	ND	U	4.39	8.03		4.59
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.86	ND	U	4.75	ND	U	5.84	ND	U	4.06	ND	U	6.26	ND	U	7.52	ND	U	6.05	ND	U	5.29
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2-CHLOROPHENOL	2.31	391	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.729	ND	U	0.706	ND	U	0.748	ND	U	0.761	ND	U	0.683	ND	U	0.731	ND	U	0.729	ND	U	0.757
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	4-CHLOROANILINE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	ACENAPHTHYLENE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	0.0226	J	0.378
	ANTHRACENE	5,410	17,200	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0325	J	0.342	ND	U	0.366	ND	U	0.365	0.0784	J	0.378
	BENZENAMINE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0551	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0561	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.059	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0741	J	0.342	ND	U	0.366	ND	U	0.365	0.0448	J	0.378
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0344	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0524	J	0.342	0.0325	J	0.366	ND	U	0.365	ND	U	0.378
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	CARBAZOLE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.025	J	0.342	ND	U	0.366	ND	U	0.365	0.031	J	0.378
	CHRYSENE	160	147	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0636	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0128	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DIBENZOFURAN	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DIETHYL PHTHALATE	193	48,900	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	FLUORANTHENE	2,430	2,290	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.122	J	0.342	ND	U	0.366	ND	U	0.365	0.012	J	0.378
	FLUORENE	406	2,290	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.048	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	ISOPHORONE	3.84	5,120	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	NAPHTHALENE	0.0713	43.0	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	NITROBENZENE	0.0125	53.5	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP006			DP007			DP007			DP007			DP007			DP007			DP007			DP008		
			SAMPLE NO	FFOR0029-R			FFOR0036			FFOR0038			FFOR0039			FFOR0034-R			FFOR0035-R			FFOR0037-R			FFOR0040		
			SAMPLE DATE	26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			19-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	0-1 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.71	ND	U	1.83	ND	U	1.82	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.0869	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	PHENOL	99.5	18,300	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	PYRENE	1,790	1,720	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	0.134	J	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
	PYRIDINE	NE	NE	ND	U	0.365	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.342	ND	U	0.366	ND	U	0.365	ND	U	0.378
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00015	J	0.00177	0.000118	J	0.00174	0.000594	J	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	0.00056	J	0.00235	ND	U	0.00335
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	0.000326	J	0.00235	ND	U	0.00335
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	1-CHLOROHEXANE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	2-BUTANONE	25.5	37,100	0.00353	J	0.00441	0.000669	J	0.00436	0.00237	J	0.00521	ND	U	0.00554	0.00367	J	0.00434	ND	U	0.00543	0.00129	J	0.00587	ND	U	0.00837
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	2-HEXANONE	NE	NE	ND	U	0.00441	ND	U	0.00436	ND	U	0.00521	ND	U	0.00554	ND	U	0.00434	ND	U	0.00543	ND	U	0.00587	ND	U	0.00837
	2-PROPENAL	0.000146	0.404	ND	U	0.0221	ND	UJ	0.0218	ND	U	0.0261	ND	U	0.0277	ND	U	0.0217	ND	U	0.0272	ND	U	0.0293	ND	U	0.0418
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0221	ND	UJ	0.0218	ND	U	0.0261	ND	U	0.0277	ND	U	0.0217	ND	U	0.0272	ND	U	0.0293	ND	U	0.0418
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00441	ND	U	0.00436	ND	U	0.00521	ND	U	0.00554	ND	U	0.00434	ND	U	0.00543	ND	U	0.00587	ND	U	0.00837
	ACETONE	77.1	66,600	0.0318	J	0.0221	0.00697	J	0.0218	0.0101	J	0.0261	0.0137	J	0.0277	0.0222	J	0.0217	ND	UJ	0.0272	0.00579	J	0.0293	0.0184	J	0.0418
	BENZENE	0.0345	15.4	0.000494	J	0.00177	0.00038	J	0.00174	0.0016	J	0.00208	ND	U	0.00222	0.000542	J	0.00174	ND	U	0.00217	0.00144	J	0.00235	ND	U	0.00335
	BROMOBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	BROMOFORM	12.1	6,116	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	BROMOMETHANE	0.0385	16.5	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CHLOROBENZENE	0.984	376	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CHLOROETHANE	107	29,800	ND	U	0.00177	ND	UJ	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CHLOROFORM	0.00918	5.86	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CHLOROMETHANE	0.879	275	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	ETHYLBENZENE	0.26	68.4	ND	U	0.00177	0.000217	J	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	0.000361	J	0.00235	ND	U	0.00335
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	M,P-XYLENES	NE	NE	ND	U	0.00353	ND	U	0.00349	0.00131	J	0.00417	ND	U	0.00443	ND	U	0.00347	ND	U	0.00435	0.00146	J	0.00469	ND	U	0.00669
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00441	ND	U	0.00436	ND	U	0.00521	ND	U	0.00554	ND	U	0.00434	ND	U	0.00543	ND	U	0.00587	ND	U	0.00837
	NAPHTHALENE	0.0713	43.0	ND	U	0.00177	0.00116	J	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	N-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	N-PROPYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	O-XYLENE	3.13	898	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	0.000333	J	0.00235	ND	U	0.00335

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP006			DP007			DP007			DP007			DP007			DP007			DP007			DP008		
		SAMPLE NO		FFOR0029-R			FFOR0036			FFOR0038			FFOR0039			FFOR0034-R			FFOR0035-R			FFOR0037-R			FFOR0040		
		SAMPLE DATE		26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		0-1 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	STYRENE	27.7	7,280	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TOLUENE	25.3	5,270	0.00074	J	0.00177	ND	U	0.00174	0.00196	J	0.00208	ND	U	0.00222	0.00102	J	0.00174	0.000337	J	0.00217	0.00229	J	0.00235	ND	U	0.00335
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	VINYL ACETATE	1.52	2,560	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00177	ND	U	0.00174	ND	U	0.00208	ND	U	0.00222	ND	U	0.00174	ND	U	0.00217	ND	U	0.00235	ND	U	0.00335
	XYLENES	3.13	814	ND	U	0.0053	0.000384	J	0.00523	0.00131	J	0.00625	ND	U	0.00665	ND	U	0.00521	ND	U	0.00652	0.00179	J	0.00704	ND	U	0.01
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.09		0.66	3.81		0.64	7.02		0.69	5.59		0.69	14.5		0.62	3.96		0.67	5.4		0.66	6.35		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP008			DP008			DP008			DP008			DP009			DP009			DP009			DP009		
		SAMPLE NO		FFOR0041			FFOR0043			FFOR0044			FFOR0042-R			FFOR0045			FFOR0048			FFOR0049			FFOR0050		
		SAMPLE DATE		19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.15		4.31	2.08	J	4.72	1.81	J	4.45	2.23	J	4.44	5.38		4.34	ND	U	4.77	ND	U	4.43	ND	U	4.51
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.87	ND	U	4.84	ND	U	3.64	ND	U	4.52	ND	U	2.53	ND	U	6.47	ND	U	5.16	ND	U	5.07
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.716	ND	U	0.771	ND	U	0.729	ND	U	0.733	ND	U	0.722	ND	U	0.787	ND	U	0.731	ND	U	0.737
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	ANTHRACENE	5,410	17,200	0.0232	J	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.045	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0414	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0329	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0436	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZO(GHI)PERYLENE	NE	NE	0.0196	J	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0207	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0226	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	CHRYSENE	160	147	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.037	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	FLUORANTHENE	2,430	2,290	0.00808	J	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0832	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP008			DP008			DP008			DP008			DP009			DP009			DP009			DP009		
			SAMPLE NO	FFOR0041			FFOR0043			FFOR0044			FFOR0042-R			FFOR0045			FFOR0048			FFOR0049			FFOR0050		
			SAMPLE DATE	19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.93	ND	U	1.82	ND	U	1.83	ND	U	1.8	ND	U	1.97	ND	U	1.83	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0551	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	PYRENE	1,790	1,720	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	0.0765	J	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.386	ND	U	0.365	ND	U	0.366	ND	U	0.361	ND	U	0.393	ND	U	0.366	ND	U	0.369
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	0.00135	J	0.00254	ND	U	0.00173	0.000947	J	0.00218	ND	U	0.00194	0.000795	J	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	0.000768	J	0.00254	ND	U	0.00173	0.000613	J	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	1-CHLOROHEXANE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	2-BUTANONE	25.5	37,100	ND	U	0.00591	0.00573	J	0.00634	0.00308	J	0.00434	0.00116	J	0.00546	0.00573		0.00484	0.00361	J	0.0063	ND	U	0.00586	ND	U	0.00522
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	2-HEXANONE	NE	NE	ND	U	0.00591	ND	U	0.00634	ND	U	0.00434	ND	U	0.00546	ND	U	0.00484	ND	U	0.0063	ND	U	0.00586	ND	U	0.00522
	2-PROPENAL	0.000146	0.404	ND	U	0.0295	ND	U	0.0317	ND	U	0.0217	ND	U	0.0273	ND	U	0.0242	ND	U	0.0315	ND	U	0.0293	ND	U	0.0261
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0295	ND	U	0.0317	ND	U	0.0217	ND	U	0.0273	ND	U	0.0242	ND	U	0.0315	ND	U	0.0293	ND	U	0.0261
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00591	ND	U	0.00634	ND	U	0.00434	ND	U	0.00546	ND	U	0.00484	ND	U	0.0063	ND	U	0.00586	ND	U	0.00522
	ACETONE	77.1	66,600	0.0151	J	0.0295	0.0174	J	0.0317	0.0112	J	0.0217	0.00238	J	0.0273	0.0259		0.0242	0.0153	J	0.0315	0.0202	J	0.0293	0.0192	J	0.0261
	BENZENE	0.0345	15.4	ND	U	0.00236	0.00361		0.00254	ND	U	0.00173	0.00313		0.00218	0.000682	J	0.00194	0.00227	J	0.00252	ND	U	0.00234	ND	U	0.00209
	BROMOBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	BROMOFORM	12.1	6,116	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	BROMOMETHANE	0.0385	16.5	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CHLOROBENZENE	0.984	376	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	0.000225	J	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CHLOROETHANE	107	29,800	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CHLOROFORM	0.00918	5.86	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CHLOROMETHANE	0.879	275	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	ETHYLBENZENE	0.26	68.4	ND	U	0.00236	0.000758	J	0.00254	ND	U	0.00173	0.000529	J	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	M,P-XYLENES	NE	NE	ND	U	0.00473	0.00323	J	0.00507	ND	U	0.00347	0.00245	J	0.00437	ND	U	0.00388	0.00182	J	0.00504	ND	U	0.00468	ND	U	0.00418
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00591	ND	U	0.00634	ND	U	0.00434	ND	U	0.00546	ND	U	0.00484	ND	U	0.0063	ND	U	0.00586	ND	U	0.00522
	NAPHTHALENE	0.0713	43.0	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	N-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	N-PROPYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	O-XYLENE	3.13	898	ND	U	0.00236	0.00085	J	0.00254	ND	U	0.00173	0.000526	J	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP008			DP008			DP008			DP008			DP009			DP009			DP009			DP009		
			SAMPLE NO	FFOR0041			FFOR0043			FFOR0044			FFOR0042-R			FFOR0045			FFOR0048			FFOR0049			FFOR0050		
			SAMPLE DATE	19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	STYRENE	27.7	7,280	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TOLUENE	25.3	5,270	0.000619	J	0.00236	0.00439		0.00254	0.000512	J	0.00173	0.00387		0.00218	0.000914	J	0.00194	0.00275		0.00252	ND	U	0.00234	0.000817	J	0.00209
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	VINYL ACETATE	1.52	2,560	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00236	ND	U	0.00254	ND	U	0.00173	ND	U	0.00218	ND	U	0.00194	ND	U	0.00252	ND	U	0.00234	ND	U	0.00209
	XYLENES	3.13	814	ND	U	0.00709	0.00408	J	0.00761	ND	U	0.0052	0.00298	J	0.00655	ND	U	0.00581	0.00182	J	0.00756	ND	U	0.00703	ND	U	0.00627
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.28		0.65	9.08		0.71	5.68		0.66	5.35		0.67	12.7		0.66	7.81		0.73	5.26		0.66	5.65		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP009			DP009			DP010			DP010			DP010			DP010			DP010			DP010		
			SAMPLE NO	FFOR0046-R			FFOR0047-R			FFOR0053			FFOR0054			FFOR0055			FFOR0056			FFOR0051-R			FFOR0052-R		
			SAMPLE DATE	26-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	5-6 FT			10-11 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.29	ND	U	4.25	ND	U	4.54	1.66	J	4.26	1.94	J	4.46	ND	U	4.39	2.28	J	4.12	2.71	J	4.18
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.32	ND	U	6.26	ND	U	6.04	ND	U	4.09	ND	U	4.28	ND	U	3.76	ND	U	5.82	ND	U	6.42
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.699	ND	U	0.745	ND	U	0.699	ND	U	0.734	ND	U	0.731	ND	U	0.692	ND	U	0.685
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.015	J	0.346	0.0198	J	0.343
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0416	J	0.346	0.0488	J	0.343
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0388	J	0.346	0.0536	J	0.343
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0486	J	0.346	0.064	J	0.343
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0328	J	0.346	0.0445	J	0.343
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0273	J	0.346	0.0338	J	0.343
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0562	J	0.346	0.07	J	0.343
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.349	0.0452	J	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.349	0.0128	J	0.372	0.00828	J	0.349	0.0124	J	0.367	ND	U	0.365	0.0966	J	0.346	0.147	J	0.343
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	0.0373	J	0.343
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP009			DP009			DP010			DP010			DP010			DP010			DP010			DP010		
			SAMPLE NO	FFOR0046-R			FFOR0047-R			FFOR0053			FFOR0054			FFOR0055			FFOR0056			FFOR0051-R			FFOR0052-R		
			SAMPLE DATE	26-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	5-6 FT			10-11 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.75	ND	U	1.86	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.73	ND	U	1.71
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0734	J	0.346	0.103	J	0.343
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	0.0944	J	0.346	0.109	J	0.343
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.349	ND	U	0.372	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.346	ND	U	0.343
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	0.000378	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	0.000169	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	1-CHLOROHEXANE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	2-BUTANONE	25.5	37,100	ND	U	0.00548	0.00319	J	0.00573	0.00419	J	0.00726	ND	U	0.00465	ND	U	0.0042	ND	U	0.0066	0.00304	J	0.00521	0.00225	J	0.00487
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	2-HEXANONE	NE	NE	ND	U	0.00548	ND	U	0.00573	ND	U	0.00726	ND	U	0.00465	ND	U	0.0042	ND	U	0.0066	ND	U	0.00521	ND	U	0.00487
	2-PROPENAL	0.000146	0.404	ND	U	0.0274	ND	U	0.0287	ND	U	0.0363	ND	U	0.0232	ND	U	0.021	ND	U	0.033	ND	U	0.026	ND	U	0.0243
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0274	ND	U	0.0287	ND	U	0.0363	ND	U	0.0232	ND	U	0.021	ND	U	0.033	ND	U	0.026	ND	U	0.0243
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00548	ND	U	0.00573	ND	U	0.00726	ND	U	0.00465	ND	U	0.0042	ND	U	0.0066	ND	U	0.00521	ND	U	0.00487
	ACETONE	77.1	66,600	0.0018	J	0.0274	0.032	J	0.0287	0.021	J	0.0363	0.00972	J	0.0232	0.00878	J	0.021	0.0278	J	0.033	0.0214	J	0.026	0.0132	J	0.0243
	BENZENE	0.0345	15.4	ND	U	0.00219	0.000982	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	0.000414	J	0.00208	0.000446	J	0.00195
	BROMOBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	BROMOFORM	12.1	6,116	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	BROMOMETHANE	0.0385	16.5	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CHLOROBENZENE	0.984	376	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CHLOROETHANE	107	29,800	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CHLOROFORM	0.00918	5.86	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CHLOROMETHANE	0.879	275	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	ETHYLBENZENE	0.26	68.4	ND	U	0.00219	0.00028	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	M,P-XYLENES	NE	NE	ND	U	0.00439	0.000822	J	0.00459	ND	U	0.00581	ND	U	0.00372	ND	U	0.00336	ND	U	0.00528	ND	U	0.00417	ND	U	0.00389
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00548	ND	U	0.00573	ND	U	0.00726	ND	U	0.00465	ND	U	0.0042	ND	U	0.0066	ND	U	0.00521	ND	U	0.00487
	NAPHTHALENE	0.0713	43.0	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	N-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	N-PROPYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	O-XYLENE	3.13	898	ND	U	0.00219	0.000236	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP009			DP009			DP010			DP010			DP010			DP010			DP010			DP010		
			SAMPLE NO	FFOR0046-R			FFOR0047-R			FFOR0053			FFOR0054			FFOR0055			FFOR0056			FFOR0051-R			FFOR0052-R		
			SAMPLE DATE	26-Jun-11			26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	5-6 FT			10-11 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	STYRENE	27.7	7,280	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TOLUENE	25.3	5,270	ND	U	0.00219	0.00171	J	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	0.00078	J	0.00208	0.000861	J	0.00195
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	VINYL ACETATE	1.52	2,560	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00219	ND	U	0.00229	ND	U	0.0029	ND	U	0.00186	ND	U	0.00168	ND	U	0.00264	ND	U	0.00208	ND	U	0.00195
	XYLENES	3.13	814	ND	U	0.00658	0.00106	J	0.00688	ND	U	0.00871	ND	U	0.00558	ND	U	0.00504	ND	U	0.00792	ND	U	0.00625	ND	U	0.00584
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	2.97		0.64	3.47		0.64	4.8		1.36	5.65		0.64	5.48		0.68	6.73		0.67	16		0.62	12.6		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP011			DP011			DP011			DP011			DP011			DP011			DP012			DP012		
			SAMPLE NO	FFOR0057			FFOR0058			FFOR0059			FFOR0060			FFOR0061			FFOR0062			FFOR0063			FFOR0064		
			SAMPLE DATE	19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	23.6		4.08	1.73	J	4.43	1.8	J	4.45	2.67	J	4.48	ND	U	4.89	ND	U	4.42	24		4.38	3.1	J	4.44
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	20.9	ND	U	6.89	ND	U	6.4	ND	U	5.34	ND	U	4.6	ND	U	5.15	0.873	J	5.55	ND	U	5.02
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	1,2-DICHLOROBENZENE	5.60	2,310	0.0154	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,4-DINITROPHENOL	1.26	122	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	UJ	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2-CHLOROPHENOL	2.31	391	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	2-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.68	ND	U	0.734	ND	U	0.729	ND	U	0.731	ND	U	0.799	ND	U	0.73	ND	U	0.711	ND	U	0.72
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	3-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	4-CHLOROANILINE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	4-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	ACENAPHTHYLENE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	0.0338	J	0.355	ND	U	0.36
	ANTHRACENE	5,410	17,200	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	0.106	J	0.355	ND	U	0.36
	BENZENAMINE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BENZO(GHI)PERYLENE	NE	NE	0.058	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	0.0603	J	0.355	ND	U	0.36
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.34	0.196	J	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	CARBAZOLE	NE	NE	0.0321	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	0.0406	J	0.355	ND	U	0.36
	CHRYSENE	160	147	0.0162	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DIBENZOFURAN	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DIETHYL PHTHALATE	193	48,900	0.0354	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	FLUORANTHENE	2,430	2,290	0.0365	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	FLUORENE	406	2,290	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	ISOPHORONE	3.84	5,120	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	NAPHTHALENE	0.0713	43.0	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	NITROBENZENE	0.0125	53.5	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP011			DP011			DP011			DP011			DP011			DP011			DP012			DP012		
			SAMPLE NO	FFOR0057			FFOR0058			FFOR0059			FFOR0060			FFOR0061			FFOR0062			FFOR0063			FFOR0064		
			SAMPLE DATE	19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.7	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	2	ND	U	1.82	ND	U	1.78	ND	U	1.8
	PHENANTHRENE	571	1,830	0.0138	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	PHENOL	99.5	18,300	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	PYRENE	1,790	1,720	0.0274	J	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
	PYRIDINE	NE	NE	ND	U	0.34	ND	U	0.367	ND	U	0.364	ND	U	0.366	ND	U	0.399	ND	U	0.365	ND	U	0.355	ND	U	0.36
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	0.000638	J	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	1-CHLOROHEXANE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	2-BUTANONE	25.5	37,100	ND	U	0.00649	ND	U	0.00662	ND	U	0.00555	0.00257	J	0.00561	ND	U	0.00556	0.00462	J	0.00595	0.00607		0.00474	0.0021	J	0.00544
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	2-HEXANONE	NE	NE	ND	U	0.00649	ND	U	0.00662	ND	U	0.00555	ND	U	0.00561	ND	U	0.00556	ND	U	0.00595	ND	U	0.00474	ND	U	0.00544
	2-PROPENAL	0.000146	0.404	ND	U	0.0325	ND	U	0.0331	ND	U	0.0277	ND	U	0.028	ND	U	0.0278	ND	U	0.0297	ND	U	0.0237	ND	U	0.0272
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0325	ND	U	0.0331	ND	U	0.0277	ND	U	0.028	ND	U	0.0278	ND	U	0.0297	ND	U	0.0237	ND	U	0.0272
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00649	ND	U	0.00662	ND	U	0.00555	ND	U	0.00561	ND	U	0.00556	ND	U	0.00595	ND	U	0.00474	ND	U	0.00544
	ACETONE	77.1	66,600	0.0234	J	0.0325	0.0119	J	0.0331	0.00926	J	0.0277	0.00962	J	0.028	0.00865	J	0.0278	0.0178	J	0.0297	0.0252		0.0237	0.0065	J	0.0272
	BENZENE	0.0345	15.4	0.000573	J	0.0026	ND	U	0.00265	ND	U	0.00222	0.00102	J	0.00224	0.00187	J	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	BROMOBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	BROMOFORM	12.1	6,116	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	BROMOMETHANE	0.0385	16.5	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CHLOROBENZENE	0.984	376	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CHLOROETHANE	107	29,800	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CHLOROFORM	0.00918	5.86	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CHLOROMETHANE	0.879	275	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	ETHYLBENZENE	0.26	68.4	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	M,P-XYLENES	NE	NE	ND	U	0.00519	ND	U	0.0053	ND	U	0.00444	0.00103	J-	0.00448	0.00144	J	0.00445	ND	U	0.00476	ND	U	0.00379	ND	U	0.00435
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00649	ND	U	0.00662	ND	U	0.00555	ND	U	0.00561	ND	U	0.00556	ND	U	0.00595	ND	U	0.00474	ND	U	0.00544
	NAPHTHALENE	0.0713	43.0	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	N-BUTYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	N-PROPYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	O-XYLENE	3.13	898	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP011			DP011			DP011			DP011			DP011			DP011			DP012			DP012		
		SAMPLE NO		FFOR0057			FFOR0058			FFOR0059			FFOR0060			FFOR0061			FFOR0062			FFOR0063			FFOR0064		
		SAMPLE DATE		19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	STYRENE	27.7	7,280	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TOLUENE	25.3	5,270	0.00101	J	0.0026	ND	U	0.00265	ND	U	0.00222	0.00149	J	0.00224	0.00221	J	0.00223	0.00061	J	0.00238	0.000735	J	0.00189	ND	U	0.00218
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	VINYL ACETATE	1.52	2,560	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0026	ND	U	0.00265	ND	U	0.00222	ND	U	0.00224	ND	U	0.00223	ND	U	0.00238	ND	U	0.00189	ND	U	0.00218
	XYLENES	3.13	814	ND	U	0.00779	ND	U	0.00795	ND	U	0.00666	0.00103	J	0.00673	0.00144	J	0.00668	ND	U	0.00714	ND	U	0.00568	ND	U	0.00653
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	16.9		0.62	2.84		0.67	2.9		0.66	5.55	J-	0.67	10.2		0.73	6.56		0.66	7.4		0.66	3.81		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP012			DP012			DP012			DP013			DP013			DP013			DP013			DP013		
		SAMPLE NO		FFOR0065			FFOR0066			FFOR0067			FFOR0068			FFOR0070			FFOR0071			FFOR0072			FFOR0073		
		SAMPLE DATE		19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.53	J	4.66	2.65	J	4.66	693		86.7	7.99		4.1	1.83	J	4.23	2.01	J	4.05	4.25	J	4.68	943		86.7
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.77	ND	U	4.15	13.8		4.48	ND	U	8.41	ND	U	5.27	ND	U	3.87	ND	U	6.02	13.2		5.79
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.774	ND	U	0.761	ND	U	0.715	ND	U	0.675	ND	U	0.69	ND	U	0.664	ND	U	0.772	ND	U	0.708
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.387	ND	U	0.381	ND	U	0.358	0.0377	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.0723	J	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.387	ND	U	0.381	0.0505	J	0.358	0.0432	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.0633	J	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.387	ND	U	0.381	0.0872	J	0.358	0.0429	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.12	J	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	0.0532	J	0.337	ND	U	0.345	ND	U	0.332	0.0749	J	0.386	0.0446	J	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.387	ND	U	0.381	0.0278	J	0.358	0.0342	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.0425	J	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0258	J	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	0.0276	J	0.386	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.387	ND	U	0.381	ND	U	0.358	0.0432	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.101	J	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.387	ND	U	0.381	ND	U	0.358	0.0269	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.387	ND	U	0.381	0.265	J	0.358	0.0608	J	0.337	0.0173	J	0.345	0.0297	J	0.332	0.0108	J	0.386	0.216	J	0.354
	FLUORENE	406	2,290	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.387	ND	U	0.381	ND	U	0.358	0.0319	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.0395	J	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP012			DP012			DP012			DP013			DP013			DP013			DP013			DP013		
		SAMPLE NO		FFOR0065			FFOR0066			FFOR0067			FFOR0068			FFOR0070			FFOR0071			FFOR0072			FFOR0073		
		SAMPLE DATE		19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.94	ND	U	1.9	ND	U	1.79	ND	U	1.69	ND	U	1.73	ND	U	1.66	ND	U	1.93	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.387	ND	U	0.381	0.191	J	0.358	0.0301	J	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	0.153	J	0.354
	PHENOL	99.5	18,300	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.387	ND	U	0.381	0.135	J	0.358	0.0649	J	0.337	0.0202	J	0.345	0.0318	J	0.332	ND	U	0.386	0.223	J	0.354
	PYRIDINE	NE	NE	ND	U	0.387	ND	U	0.381	ND	U	0.358	ND	U	0.337	ND	U	0.345	ND	U	0.332	ND	U	0.386	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	UJ	0.206
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00211	ND	U	0.00239	**0.00406**		0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	0.0679		0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	0.106		0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	0.000408	J	0.0021	0.327		0.206
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	1-CHLOROHEXANE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	2-BUTANONE	25.5	37,100	0.00191	J	0.00527	0.0051	J	0.00597	0.00717		0.00418	0.00718	J	0.00771	0.00348	J	0.00482	0.00324	J	0.00562	0.00416	J	0.00525	ND	U	0.514
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	2-HEXANONE	NE	NE	ND	U	0.00527	ND	U	0.00597	ND	U	0.00418	ND	U	0.00771	ND	U	0.00482	ND	U	0.00562	ND	U	0.00525	ND	U	0.514
	2-PROPENAL	0.000146	0.404	ND	U	0.0263	ND	U	0.0298	ND	U	0.0209	ND	U	0.0385	ND	U	0.0241	ND	U	0.0281	ND	U	0.0263	ND	UJ	2.57
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0263	ND	U	0.0298	ND	U	0.0209	ND	U	0.0385	ND	U	0.0241	ND	U	0.0281	ND	U	0.0263	ND	U	2.57
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00527	ND	U	0.00597	0.0188		0.00418	ND	U	0.00771	ND	U	0.00482	ND	U	0.00562	ND	U	0.00525	ND	U	0.514
	ACETONE	77.1	66,600	0.00698	J	0.0263	0.0283	J	0.0298	0.0169	J	0.0209	0.0419		0.0385	0.0141	J	0.0241	0.0146	J	0.0281	0.0201	J	0.0263	ND	U	2.57
	BENZENE	0.0345	15.4	0.000362	J	0.00211	0.00214	J	0.00239	ND	U	0.00167	ND	U	0.00308	0.000742	J	0.00193	0.0015	J	0.00225	0.00187	J	0.0021	ND	U	0.206
	BROMOBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	BROMOFORM	12.1	6,116	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	BROMOMETHANE	0.0385	16.5	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CHLOROBENZENE	0.984	376	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CHLOROETHANE	107	29,800	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CHLOROFORM	0.00918	5.86	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CHLOROMETHANE	0.879	275	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	ETHYLBENZENE	0.26	68.4	ND	U	0.00211	ND	U	0.00239	0.00142	J	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	0.000517	J	0.0021	ND	U	0.206
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	M,P-XYLENES	NE	NE	ND	U	0.00422	0.00143	J	0.00477	0.0147		0.00334	ND	U	0.00617	ND	U	0.00385	0.00173	J	0.00449	0.00164	J	0.0042	ND	U	0.411
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00527	ND	U	0.00597	ND	U	0.00418	ND	U	0.00771	ND	U	0.00482	ND	U	0.00562	ND	U	0.00525	ND	U	0.514
	NAPHTHALENE	0.0713	43.0	ND	U	0.00211	ND	U	0.00239	**0.115**		0.00167	0.00388		0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	N-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	N-PROPYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	O-XYLENE	3.13	898	ND	U	0.00211	ND	U	0.00239	0.0186		0.00167	ND	U	0.00308	ND	U	0.00193	0.000513	J	0.00225	0.000493	J	0.0021	ND	U	0.206

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		LOCATION CODE		DP012			DP012			DP012			DP013			DP013			DP013			DP013			DP013		
		SAMPLE NO		FFOR0065			FFOR0066			FFOR0067			FFOR0068			FFOR0070			FFOR0071			FFOR0072			FFOR0073		
		SAMPLE DATE		19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00239	0.018		0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	0.00187		0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	STYRENE	27.7	7,280	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TOLUENE	25.3	5,270	ND	U	0.00211	0.00229	J	0.00239	0.002		0.00167	0.00175	J	0.00308	0.00126	J	0.00193	0.0025		0.00225	0.00246		0.0021	ND	U	0.206
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	VINYL ACETATE	1.52	2,560	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00211	ND	U	0.00239	ND	U	0.00167	ND	U	0.00308	ND	U	0.00193	ND	U	0.00225	ND	U	0.0021	ND	U	0.206
	XYLENES	3.13	814	ND	U	0.00632	0.00143	J	0.00716	0.0334		0.00501	ND	U	0.00925	ND	U	0.00578	0.00224	J	0.00674	0.00213	J	0.0063	ND	U	0.617
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.59		0.71	9.61		0.7	5.11		0.65	15.9		0.62	5.08		0.63	5.49		0.61	8.29		0.7	4.65		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP013			DP014			DP014			DP014			DP014			DP014			DP015			DP015		
			SAMPLE NO	FFOR0069-R			FFOR0074			FFOR0075			FFOR0076			FFOR0077			FFOR0078			FFOR0079			FFOR0080		
			SAMPLE DATE	26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.32	5.42		4.15	1.95	J	4.4	1.61	J	4.55	1.51	J	4.62	95.5		8.89	97.7		21.1	35.9		4.51
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.33	ND	U	4.45	ND	U	6.15	ND	U	3.98	ND	U	5.08	ND	U	3.99	ND	U	5.15	ND	U	6.1
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.704	ND	U	0.685	ND	U	0.713	ND	U	0.75	ND	U	0.76	ND	U	0.729	ND	U	0.702	ND	U	0.749
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.352	0.0232	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	0.0574	J	0.351	0.0429	J	0.374
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	0.123	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	0.122	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	0.135	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	0.124	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	0.188	J	0.351	0.0756	J	0.374
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	0.0627	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.342	0.031	J	0.357	ND	U	0.375	0.0349	J	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	CARBAZOLE	NE	NE	ND	U	0.352	0.0301	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	0.0864	J	0.351	0.0403	J	0.374
	CHRYSENE	160	147	ND	U	0.352	0.121	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	0.0338	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	0.028	J	0.351	0.0309	J	0.374
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	FLUORANTHENE	2,430	2,290	ND	U	0.352	0.229	J	0.342	0.0203	J	0.357	0.00762	J	0.375	ND	U	0.38	0.0126	J	0.364	ND	U	0.351	ND	U	0.374
	FLUORENE	406	2,290	ND	U	0.352	0.0169	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP013			DP014			DP014			DP014			DP014			DP014			DP015			DP015		
			SAMPLE NO	FFOR0069-R			FFOR0074			FFOR0075			FFOR0076			FFOR0077			FFOR0078			FFOR0079			FFOR0080		
			SAMPLE DATE	26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.71	ND	U	1.78	ND	U	1.88	ND	U	1.9	ND	U	1.82	ND	U	1.76	ND	U	1.87
	PHENANTHRENE	571	1,830	ND	U	0.352	0.134	J	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	ND	U	0.374
	PYRENE	1,790	1,720	ND	U	0.352	0.176	J	0.342	0.0197	J	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	U	0.351	0.0217	J	0.374
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.342	ND	U	0.357	ND	U	0.375	ND	U	0.38	ND	U	0.364	ND	UJ	0.351	ND	U	0.374
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	UJ	0.00233	ND	U	0.00305
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	UJ	0.00233	ND	U	0.00305
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	0.000928	J	0.00248	ND	U	0.00193	0.000362	J	0.00233	ND	U	0.00305
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	0.000483	J	0.00248	0.00353		0.00193	ND	U	0.00233	ND	U	0.00305
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	1-CHLOROHEXANE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	2-BUTANONE	25.5	37,100	ND	U	0.00598	0.00512		0.0046	0.00392	J	0.00482	0.00135	J	0.00427	0.0028	J	0.0062	0.00404	J	0.00482	0.00325	J	0.00583	0.00226	J	0.00762
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	2-HEXANONE	NE	NE	ND	U	0.00598	ND	U	0.0046	ND	U	0.00482	ND	U	0.00427	ND	U	0.0062	ND	U	0.00482	ND	U	0.00583	ND	U	0.00762
	2-PROPENAL	0.000146	0.404	ND	U	0.0299	ND	U	0.023	ND	U	0.0241	ND	U	0.0214	ND	U	0.031	ND	U	0.0241	ND	UJ	0.0292	ND	UJ	0.0381
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0299	ND	U	0.023	ND	U	0.0241	ND	U	0.0214	ND	U	0.031	ND	U	0.0241	ND	UJ	0.0292	ND	UJ	0.0381
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00598	ND	U	0.0046	ND	U	0.00482	ND	U	0.00427	ND	U	0.0062	ND	U	0.00482	ND	U	0.00583	ND	U	0.00762
	ACETONE	77.1	66,600	0.00622	J	0.0299	0.0281		0.023	0.0223	J	0.0241	0.00624	J	0.0214	0.00814	J	0.031	0.0149	J	0.0241	0.0278	J	0.0292	0.0247	J	0.0381
	BENZENE	0.0345	15.4	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	0.000193	J	0.00171	0.00237	J	0.00248	ND	U	0.00193	0.00118	J	0.00233	ND	U	0.00305
	BROMOBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	BROMOFORM	12.1	6,116	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	BROMOMETHANE	0.0385	16.5	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CHLOROBENZENE	0.984	376	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CHLOROETHANE	107	29,800	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CHLOROFORM	0.00918	5.86	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CHLOROMETHANE	0.879	275	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	UJ	0.00233	ND	UJ	0.00305
	ETHYLBENZENE	0.26	68.4	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	0.000538	J	0.00248	ND	U	0.00193	0.000277	J	0.00233	ND	U	0.00305
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	UJ	0.00233	ND	U	0.00305
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	M,P-XYLENES	NE	NE	ND	U	0.00478	ND	U	0.00368	ND	U	0.00386	ND	U	0.00342	0.0021	J	0.00496	ND	U	0.00386	0.00104	J	0.00467	ND	U	0.0061
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00598	ND	U	0.0046	ND	U	0.00482	ND	U	0.00427	ND	U	0.0062	ND	U	0.00482	ND	U	0.00583	ND	U	0.00762
	NAPHTHALENE	0.0713	43.0	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	N-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	N-PROPYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	O-XYLENE	3.13	898	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	0.000589	J	0.00248	ND	U	0.00193	0.000529	J	0.00233	ND	U	0.00305

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		LOCATION CODE		DP013			DP014			DP014			DP014			DP014			DP014			DP015			DP015		
		SAMPLE NO		FFOR0069-R			FFOR0074			FFOR0075			FFOR0076			FFOR0077			FFOR0078			FFOR0079			FFOR0080		
		SAMPLE DATE		26-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			19-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	0.000721	J	0.00193	ND	U	0.00233	ND	U	0.00305
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	STYRENE	27.7	7,280	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TOLUENE	25.3	5,270	ND	U	0.00239	0.000918	J	0.00184	ND	U	0.00193	0.000621	J	0.00171	0.00328		0.00248	0.000793	J	0.00193	0.00302		0.00233	ND	U	0.00305
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	VINYL ACETATE	1.52	2,560	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00239	ND	U	0.00184	ND	U	0.00193	ND	U	0.00171	ND	U	0.00248	ND	U	0.00193	ND	U	0.00233	ND	U	0.00305
	XYLENES	3.13	814	ND	U	0.00717	ND	U	0.00552	ND	U	0.00578	ND	U	0.00513	0.00269	J	0.00744	ND	U	0.00579	0.00158	J	0.007	ND	U	0.00915
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.08		0.65	17		0.62	5.02		0.66	4.46		0.69	7.96		0.69	5.1		0.67	8.11	J	3.19	5.06		1.36

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP015			DP015			DP015			DP015			DP016			DP016			DP016			DP016		
		SAMPLE NO		FFOR0081			FFOR0082			FFOR0083			FFOR0084			FFOR0085			FFOR0086			FFOR0087			FFOR0088		
		SAMPLE DATE		20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	18.3		4.23	8.68		4.48	1060		86.9	793		84.5	17.6		4.11	2.57	J	4.43	3.07	J	4.22	3.47	J	4.5
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.96	ND	U	6.95	803		46.7	1100		46.3	3.46	J	4.8	ND	U	6.49	ND	U	5.47	ND	U	4.91
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.372	0.911		0.353	1.3		0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.707	ND	U	0.744	ND	U	0.706	ND	U	0.704	ND	U	0.674	ND	U	0.736	ND	U	0.696	ND	U	0.733
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	0.159	J	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	0.0207	J	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	1.45		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	**5.39**		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	**4.45**		0.337	ND	U	0.368	0.0207	J	0.348	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	**5.15**		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	0.0357	J	0.354	0.0245	J	0.372	ND	U	0.353	ND	U	0.352	2.18		0.337	0.0196	J	0.368	0.0296	J	0.348	0.0262	J	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0216	J	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	2.51		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	0.533		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	6.76		3.37	ND	U	0.368	0.0207	J	0.348	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	**0.683**		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	0.0431	J	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	0.0342	J	0.354	0.0321	J	0.372	0.0343	J	0.353	ND	U	0.352	0.0315	J	0.337	0.0238	J	0.368	ND	U	0.348	0.0232	J	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	FLUORANTHENE	2,430	2,290	0.0162	J	0.354	ND	U	0.372	0.0225	J	0.353	0.0279	J	0.352	7.8		3.37	ND	U	0.368	0.0176	J	0.348	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	0.0938	J	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	**2.26**		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP015			DP015			DP015			DP015			DP016			DP016			DP016			DP016		
			SAMPLE NO	FFOR0081			FFOR0082			FFOR0083			FFOR0084			FFOR0085			FFOR0086			FFOR0087			FFOR0088		
			SAMPLE DATE	20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.86	ND	U	1.76	ND	U	1.76	ND	U	1.69	ND	U	1.84	ND	U	1.74	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.354	ND	U	0.372	0.0202	J	0.353	0.0222	J	0.352	1.79		0.337	ND	U	0.368	0.0122	J	0.348	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	PYRENE	1,790	1,720	0.0299	J	0.354	ND	U	0.372	ND	U	0.353	0.0178	J	0.352	5.69		0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.372	ND	U	0.353	ND	U	0.352	ND	U	0.337	ND	U	0.368	ND	U	0.348	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00232	ND	U	0.00189	ND	UJ	2.11	ND	UJ	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000333	J	0.00232	0.000705	J	0.00189	22.8		2.11	23.6		1.91	0.000593	J	0.00203	0.000676	J	0.0027	0.000506	J	0.00197	0.0012	J	0.00237
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00232	ND	U	0.00189	ND	UJ	2.11	ND	UJ	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000162	J	0.00232	0.000441	J	0.00189	ND	U	2.11	ND	U	1.91	0.000209	J	0.00203	0.000245	J	0.0027	0.000189	J	0.00197	0.000536	J	0.00237
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	1-CHLOROHEXANE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	2-BUTANONE	25.5	37,100	0.00145	J	0.00579	0.00244	J	0.00473	ND	U	5.28	ND	U	4.78	0.00216	J	0.00507	ND	U	0.00676	ND	U	0.00493	0.00118	J	0.00593
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	2-HEXANONE	NE	NE	ND	U	0.00579	ND	U	0.00473	ND	U	5.28	ND	U	4.78	ND	U	0.00507	ND	U	0.00676	ND	U	0.00493	ND	U	0.00593
	2-PROPENAL	0.000146	0.404	ND	UJ	0.029	ND	UJ	0.0236	ND	UJ	26.4	ND	UJ	23.9	ND	UJ	0.0254	ND	UJ	0.0338	ND	UJ	0.0247	ND	UJ	0.0297
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.029	ND	UJ	0.0236	ND	U	26.4	ND	U	23.9	ND	UJ	0.0254	ND	UJ	0.0338	ND	UJ	0.0247	ND	UJ	0.0297
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00579	ND	U	0.00473	ND	U	5.28	ND	U	4.78	ND	U	0.00507	ND	U	0.00676	ND	U	0.00493	ND	U	0.00593
	ACETONE	77.1	66,600	0.012	J	0.029	0.0133	J	0.0236	ND	U	26.4	ND	U	23.9	0.0193	J	0.0254	0.00753	J	0.0338	0.00173	J	0.0247	0.0153	J	0.0297
	BENZENE	0.0345	15.4	0.00086	J	0.00232	0.00178	J	0.00189	ND	U	2.11	ND	U	1.91	0.000306	J	0.00203	ND	U	0.0027	ND	U	0.00197	0.00146	J	0.00237
	BROMOBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	BROMOFORM	12.1	6,116	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	BROMOMETHANE	0.0385	16.5	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CHLOROBENZENE	0.984	376	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CHLOROETHANE	107	29,800	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CHLOROFORM	0.00918	5.86	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CHLOROMETHANE	0.879	275	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00232	ND	UJ	0.00189	ND	U	2.11	ND	U	1.91	ND	UJ	0.00203	ND	UJ	0.0027	ND	UJ	0.00197	ND	UJ	0.00237
	ETHYLBENZENE	0.26	68.4	0.000298	J	0.00232	0.000379	J	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	0.000464	J	0.00237
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00232	ND	U	0.00189	1.06	J	2.11	0.936	J	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	M,P-XYLENES	NE	NE	0.000801	J	0.00463	0.00158	J	0.00378	7.29		4.22	7.59		3.83	0.00044	J	0.00406	ND	U	0.0054	ND	U	0.00394	0.00176	J	0.00475
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00579	ND	U	0.00473	ND	U	5.28	ND	U	4.78	ND	U	0.00507	ND	U	0.00676	ND	U	0.00493	ND	U	0.00593
	NAPHTHALENE	0.0713	43.0	ND	U	0.00232	ND	U	0.00189	**1.6**	J	2.11	**1.55**	J	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	N-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	N-PROPYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	UJ	2.11	ND	UJ	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	O-XYLENE	3.13	898	0.000169	J	0.00232	0.000455	J	0.00189	**6.77**		2.11	**6.32**		1.91	0.000229	J	0.00203	ND	U	0.0027	ND	U	0.00197	0.000555	J	0.00237

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP015			DP015			DP015			DP015			DP016			DP016			DP016			DP016		
		SAMPLE NO		FFOR0081			FFOR0082			FFOR0083			FFOR0084			FFOR0085			FFOR0086			FFOR0087			FFOR0088		
		SAMPLE DATE		20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00189	7.22		2.11	7.02		1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	2.95		2.11	2.74		1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	STYRENE	27.7	7,280	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TOLUENE	25.3	5,270	ND	U	0.00232	0.00253		0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	0.00252		0.00237
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	VINYL ACETATE	1.52	2,560	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00232	ND	U	0.00189	ND	U	2.11	ND	U	1.91	ND	U	0.00203	ND	U	0.0027	ND	U	0.00197	ND	U	0.00237
	XYLENES	3.13	814	0.00097	J	0.00695	0.00204	J	0.00567	**14**		6.33	**14**		5.74	0.000669	J	0.00609	ND	U	0.00811	ND	U	0.00592	0.00232	J	0.00712
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.36		0.64	6.92		0.68	5.71		0.65	5.59		0.64	20.2		0.62	3.11		0.68	6.04		0.64	7.89		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP016			DP017			DP017			DP017			DP017			DP017			DP017			DP018		
			SAMPLE NO	FFOR0089			FFOR0090			FFOR0091			FFOR0092			FFOR0093			FFOR0094			FFOR0095			FFOR0096		
			SAMPLE DATE	20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1680		222	14		4.11	3.5	J	4.52	1.47	J	4.26	1.93	J	4.28	6.5		4.55	716		87.5	53.9		4.2
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	11300		576	ND	U	5.38	ND	U	5.85	ND	U	4.52	ND	U	4.57	ND	U	5.63	3850		545	ND	U	4.47
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	2-CHLOROPHENOL	2.31	391	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	2-METHYLNAPHTHALENE	NE	NE	2.73	J	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	3.47	J	0.361	ND	U	0.348
	2-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.744	ND	U	0.678	ND	U	0.739	ND	U	0.702	ND	U	0.709	ND	U	0.751	ND	U	0.722	ND	U	0.696
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	4-CHLOROANILINE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	ACENAPHTHYLENE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0478	J	0.348
	ANTHRACENE	5,410	17,200	ND	U	0.372	0.0651	J	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.314	J	0.348
	BENZENAMINE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	BENZO(A)ANTHRACENE	1.57	1.48	0.0514	J	0.372	0.357		0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0524	J	0.348
	BENZO(A)PYRENE	0.52	0.148	0.0225	J	0.372	**0.853**		0.339	0.0219	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0387	J	0.348
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.372	0.782		0.339	0.034	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.04	J	0.348
	BENZO(GHI)PERYLENE	NE	NE	0.0196	J	0.372	0.806		0.339	0.0171	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.128	J	0.348
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0223	J	0.372	0.38		0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0243	J	0.348
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0235	J	0.348
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	CARBAZOLE	NE	NE	ND	U	0.372	0.0347	J	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	CHRYSENE	160	147	0.0433	J	0.372	0.5		0.339	0.0352	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0362	J	0.348
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.372	**0.215**	J	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0155	J	0.348
	DIBENZOFURAN	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	0.087	J	0.361	ND	U	0.348
	DIETHYL PHTHALATE	193	48,900	ND	U	0.372	0.024	J	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	FLUORANTHENE	2,430	2,290	0.095	J	0.372	0.407		0.339	0.0277	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0251	J	0.348
	FLUORENE	406	2,290	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	0.0225	J	0.361	ND	U	0.348
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.372	0.669		0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0464	J	0.348
	ISOPHORONE	3.84	5,120	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	NAPHTHALENE	0.0713	43.0	**1.24**	J	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	**1.16**	J	0.361	ND	U	0.348
	NITROBENZENE	0.0125	53.5	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP016			DP017			DP017			DP017			DP017			DP017			DP017			DP018		
			SAMPLE NO	FFOR0089			FFOR0090			FFOR0091			FFOR0092			FFOR0093			FFOR0094			FFOR0095			FFOR0096		
			SAMPLE DATE	20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	0.348
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.69	ND	U	1.85	ND	U	1.76	ND	U	1.77	ND	U	1.88	ND	U	1.81	ND	U	1.74
	PHENANTHRENE	571	1,830	0.0609	J	0.372	0.142	J	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	0.0184	J	0.361	ND	U	0.348
	PHENOL	99.5	18,300	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
	PYRENE	1,790	1,720	0.0729	J	0.372	0.453		0.339	0.0319	J	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	0.0347	J	0.348
	PYRIDINE	NE	NE	ND	U	0.372	ND	U	0.339	ND	U	0.369	ND	U	0.351	ND	U	0.355	ND	U	0.375	ND	U	0.361	ND	U	6.96
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	UJ	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	UJ	1.68	ND	U	0.00175
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2,4-TRIMETHYLBENZENE	NE	NE	181		2.76	0.000337	J	0.00185	0.000409	J	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	120		1.68	ND	U	0.00175
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2-DIBROMOETHANE	0.000308	0.588	ND	UJ	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	UJ	1.68	ND	U	0.00175
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,3,5-TRIMETHYLBENZENE	NE	NE	62.3		2.76	0.000112	J	0.00185	0.000128	J	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	39.4		1.68	ND	U	0.00175
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	1-CHLOROHEXANE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	2-BUTANONE	25.5	37,100	ND	U	6.91	0.00143	J	0.00464	0.000858	J	0.00554	0.0011	J	0.0044	0.0018	J	0.00599	0.00254	J	0.0058	ND	U	4.21	0.00763		0.00438
	2-CHLOROTOLUENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	2-HEXANONE	NE	NE	ND	U	6.91	ND	U	0.00464	ND	U	0.00554	ND	U	0.0044	ND	U	0.00599	ND	U	0.0058	ND	U	4.21	ND	U	0.00438
	2-PROPENAL	0.000146	0.404	ND	UJ	34.5	ND	UJ	0.0232	ND	UJ	0.0277	ND	U	0.022	ND	U	0.0299	ND	U	0.029	ND	UJ	21	ND	U	0.0219
	2-PROPENENITRILE	0.0016969	4.55	ND	U	34.5	ND	UJ	0.0232	ND	UJ	0.0277	ND	U	0.022	ND	U	0.0299	ND	U	0.029	ND	U	21	ND	U	0.0219
	4-CHLOROTOLUENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	6.91	ND	U	0.00464	ND	U	0.00554	ND	U	0.0044	ND	U	0.00599	ND	U	0.0058	ND	U	4.21	ND	U	0.00438
	ACETONE	77.1	66,600	ND	U	34.5	0.0141	J	0.0232	0.00936	J	0.0277	0.00468	J	0.022	0.00927	J	0.0299	0.00432	J	0.029	ND	U	21	0.0447		0.0219
	BENZENE	0.0345	15.4	ND	U	2.76	0.000195	J	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	0.00118	J	0.00232	ND	U	1.68	0.000604	J	0.00175
	BROMOBENZENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	BROMOFORM	12.1	6,116	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	BROMOMETHANE	0.0385	16.5	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CARBON DISULFIDE	5.65	1,530	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CHLOROBENZENE	0.984	376	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CHLOROETHANE	107	29,800	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CHLOROFORM	0.00918	5.86	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CHLOROMETHANE	0.879	275	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.76	ND	UJ	0.00185	ND	UJ	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	ETHYLBENZENE	0.26	68.4	**30.9**		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	**16.2**		1.68	ND	U	0.00175
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	ISOPROPYLBENZENE	17.3	2,430	16.9		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	10.9		1.68	ND	U	0.00175
	M,P-XYLENES	NE	NE	163		5.53	ND	U	0.00371	ND	U	0.00443	ND	U	0.00352	ND	U	0.00479	0.000851	J	0.00464	84.9		3.37	0.000975	J	0.00351
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	METHYLENE CHLORIDE	0.824	409	ND	U	6.91	ND	U	0.00464	ND	U	0.00554	ND	U	0.0044	ND	U	0.00599	ND	U	0.0058	ND	U	4.21	ND	U	0.00438
	NAPHTHALENE	0.0713	43.0	**5.1**		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	**4.24**		1.68	ND	U	0.00175
	N-BUTYLBENZENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	N-PROPYLBENZENE	NE	NE	31.6	J	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	19.8	J	1.68	ND	U	0.00175
	O-XYLENE	3.13	898	**71.6**		2.76	ND	U	0.00185	0.000167	J	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	**38.5**		1.68	0.000389	J	0.00175

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP016			DP017			DP017			DP017			DP017			DP017			DP017			DP018		
		SAMPLE NO		FFOR0089			FFOR0090			FFOR0091			FFOR0092			FFOR0093			FFOR0094			FFOR0095			FFOR0096		
		SAMPLE DATE		20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	16.3		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	10.9		1.68	ND	U	0.00175
	SEC-BUTYLBENZENE	NE	NE	13.8		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	9.07		1.68	ND	U	0.00175
	STYRENE	27.7	7,280	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TOLUENE	25.3	5,270	3.16		2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	0.000836	J	0.0024	0.00146	J	0.00232	ND	U	1.68	0.00187		0.00175
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	VINYL ACETATE	1.52	2,560	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.76	ND	U	0.00185	ND	U	0.00222	ND	U	0.00176	ND	U	0.0024	ND	U	0.00232	ND	U	1.68	ND	U	0.00175
	XYLENES	3.13	814	**234**		8.29	ND	U	0.00556	ND	U	0.00665	ND	U	0.00529	ND	U	0.00719	0.000851	J	0.00696	**123**		5.05	0.00136	J	0.00526
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.31		0.68	15.6		0.63	3.21		0.67	4.18		0.64	4.29		0.65	9.32		0.69	6.38		0.66	14.3		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP018			DP018			DP018			DP018			DP019			DP019			DP019			DP019		
		SAMPLE NO		FFOR0097			FFOR0098			FFOR0099			FFOR0100			FFOR0101			FFOR0102			FFOR0103			FFOR0105		
		SAMPLE DATE		20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	16.1		4.54	113		8.41	920		94.8	447		43.1	30.1		4.34	2.46	J	4.41	44.9	J-	4.62	1480		223
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.47	54.5		47	4490		541	980		89.8	1.74	J	5.71	ND	U	5.4	3.58	J	3.98	4000		450
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	3.7	ND	U	0.348	3.46	J	0.394	1.59	J	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	5.21	J	0.365
	2-METHYLPHENOL	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.739	ND	U	0.696	ND	U	0.788	ND	U	0.71	ND	U	0.72	ND	U	0.738	ND	U	0.771	ND	U	0.73
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.0718	J	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.37	0.013	J	0.348	ND	U	0.394	ND	U	0.355	0.417		0.36	ND	U	0.369	ND	U	0.385	0.0365	J	0.365
	BENZENAMINE	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	1.11		0.36	ND	U	0.369	ND	U	0.385	0.0784	J	0.365
	BENZO(A)PYRENE	0.52	0.148	0.0154	J	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	**0.885**		0.36	ND	U	0.369	ND	U	0.385	0.0538	J	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	1.09		0.36	ND	U	0.369	ND	U	0.385	0.0589	J	0.365
	BENZO(GHI)PERYLENE	NE	NE	0.0175	J	0.37	0.0134	J	0.348	ND	U	0.394	ND	U	0.355	0.565		0.36	ND	U	0.369	ND	U	0.385	0.0369	J	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.41		0.36	ND	U	0.369	ND	U	0.385	0.0378	J	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.039	J	0.36	0.239	J	0.369	ND	U	0.385	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.117	J	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	CHRYSENE	160	147	0.0167	J	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	1.27		0.36	ND	U	0.369	ND	U	0.385	0.071	J	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	**0.187**	J	0.36	ND	U	0.369	ND	U	0.385	0.0222	J	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.37	0.0285	J	0.348	0.087	J	0.394	0.051	J	0.355	0.0333	J	0.36	ND	U	0.369	ND	U	0.385	0.122	J	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	FLUORANTHENE	2,430	2,290	0.0125	J	0.37	0.0134	J	0.348	0.0147	J	0.394	0.0104	J	0.355	1.4		0.36	ND	U	0.369	ND	U	0.385	0.117	J	0.365
	FLUORENE	406	2,290	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.0694	J	0.36	ND	U	0.369	ND	U	0.385	0.0574	J	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	0.558		0.36	ND	U	0.369	ND	U	0.385	0.0372	J	0.365
	ISOPHORONE	3.84	5,120	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	3.7	ND	U	0.348	**1.38**	J	0.394	**0.503**	J	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	**2.03**	J	0.365
	NITROBENZENE	0.0125	53.5	ND	U	3.7	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP018			DP018			DP018			DP018			DP019			DP019			DP019			DP019		
			SAMPLE NO	FFOR0097			FFOR0098			FFOR0099			FFOR0100			FFOR0101			FFOR0102			FFOR0103			FFOR0105		
			SAMPLE DATE	20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.37	ND	U	0.348	ND	U	0.394	ND	U	0.355	ND	U	0.36	ND	U	0.369	ND	U	0.385	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.85	ND	U	1.74	ND	U	1.97	ND	U	1.78	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.37	0.0181	J	0.348	0.0286	J	0.394	0.0194	J	0.355	0.892		0.36	ND	U	0.369	ND	U	0.385	0.126	J	0.365
	PHENOL	99.5	18,300	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
	PYRENE	1,790	1,720	0.0296	J	0.37	0.0205	J	0.348	0.0197	J	0.394	ND	U	0.355	1.71		0.36	ND	U	0.369	ND	U	0.385	0.132	J	0.365
	PYRIDINE	NE	NE	ND	U	3.7	ND	U	1.74	ND	U	0.394	ND	U	0.355	ND	U	1.8	ND	U	1.84	ND	U	1.93	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	UJ	0.00206	ND	UJ	0.516	ND	UJ	1.94	ND	UJ	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	UJ	1.78
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,1-DICHLOROETHANE	0.12	64.5	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,1-DICHLOROETHENE	2.32	449	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,1-DICHLOROPROPENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	UJ	0.00206	0.448	J	0.516	91.5		1.94	41.9		2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	74.2	J	1.78
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2-DIBROMOETHANE	0.000308	0.588	ND	UJ	0.00206	ND	UJ	0.516	ND	UJ	1.94	ND	UJ	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	UJ	1.78
	1,2-DICHLOROBENZENE	5.60	2,310	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2-DICHLOROETHANE	0.00711	7.89	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	UJ	0.00206	0.869		0.516	37		1.94	13.9		2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	22.5	J	1.78
	1,3-DICHLOROBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,3-DICHLOROPROPANE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	2-BUTANONE	25.5	37,100	0.00399	J	0.00516	ND	U	1.29	ND	U	4.84	ND	U	5.36	0.00681		0.00534	ND	U	0.00592	0.0039	J	0.00564	ND	U	4.44
	2-CHLOROTOLUENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	2-HEXANONE	NE	NE	ND	UJ	0.00516	ND	U	1.29	ND	U	4.84	ND	U	5.36	ND	U	0.00534	ND	U	0.00592	ND	U	0.00564	ND	U	4.44
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0258	ND	UJ	6.45	ND	UJ	24.2	ND	UJ	26.8	ND	U	0.0267	ND	U	0.0296	ND	U	0.0282	ND	UJ	22.2
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0258	ND	U	6.45	ND	U	24.2	ND	U	26.8	ND	U	0.0267	ND	U	0.0296	ND	U	0.0282	ND	U	22.2
	4-CHLOROTOLUENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	4-METHYL-2-PENTANONE	NE	5,820	ND	UJ	0.00516	ND	U	1.29	ND	U	4.84	ND	U	5.36	ND	U	0.00534	ND	U	0.00592	ND	U	0.00564	ND	U	4.44
	ACETONE	77.1	66,600	0.0253	J	0.0258	ND	U	6.45	ND	U	24.2	ND	U	26.8	0.0432		0.0267	0.00313	J	0.0296	0.025	J	0.0282	ND	U	22.2
	BENZENE	0.0345	15.4	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	0.0005	J	0.00214	ND	U	0.00237	0.0012	J	0.00225	ND	U	1.78
	BROMOBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	BROMOCHLOROMETHANE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	BROMODICHLOROMETHANE	0.00541	5.41	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	BROMOFORM	12.1	6,116	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CARBON DISULFIDE	5.65	1,530	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CARBON TETRACHLORIDE	0.0321	10.8	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CHLOROBENZENE	0.984	376	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CHLOROETHANE	107	29,800	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CHLOROFORM	0.00918	5.86	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CHLOROMETHANE	0.879	275	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	DIBROMOMETHANE	0.0342	51.6	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	ETHYLBENZENE	0.26	68.4	ND	UJ	0.00206	ND	U	0.516	**6.8**		1.94	**8.31**		2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	**18.7**	J	1.78
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	UJ	0.00225	ND	U	1.78
	ISOPROPYLBENZENE	17.3	2,430	ND	UJ	0.00206	ND	U	0.516	5.48		1.94	4.28		2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	9.09	J	1.78
	M,P-XYLENES	NE	NE	ND	UJ	0.00413	ND	U	1.03	56.7		3.88	43.9		4.29	0.000984	J	0.00427	ND	U	0.00473	0.00131	J	0.00451	89.3	J	3.55
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00516	ND	U	1.29	ND	U	4.84	ND	U	5.36	ND	U	0.00534	ND	U	0.00592	ND	U	0.00564	ND	U	4.44
	NAPHTHALENE	0.0713	43.0	ND	UJ	0.00206	ND	U	0.516	**3.64**		1.94	**1.79**	J	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	**2.92**		1.78
	N-BUTYLBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	N-PROPYLBENZENE	NE	NE	ND	UJ	0.00206	ND	UJ	0.516	8	J	1.94	5.57	J	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	14.9	J	1.78
	O-XYLENE	3.13	898	ND	UJ	0.00206	ND	U	0.516	**35.7**		1.94	**24.3**		2.15	0.000308	J	0.00214	ND	U	0.00237	ND	U	0.00225	**35.9**	J	1.78

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP018			DP018			DP018			DP018			DP019			DP019			DP019			DP019		
		SAMPLE NO		FFOR0097			FFOR0098			FFOR0099			FFOR0100			FFOR0101			FFOR0102			FFOR0103			FFOR0105		
		SAMPLE DATE		20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11			20-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	10.1		1.94	5.69		2.15	ND	U	0.00214	ND	U	0.00237	ND	UJ	0.00225	7.86		1.78
	SEC-BUTYLBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	7.17		1.94	4.42		2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	6.69		1.78
	STYRENE	27.7	7,280	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TERT-BUTYLBENZENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TETRACHLOROETHENE	0.00861	7.02	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TOLUENE	25.3	5,270	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	0.00169	J	0.00214	ND	U	0.00237	0.00198	J	0.00225	ND	U	1.78
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TRICHLOROETHENE	0.0211	8.77	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	UJ	0.00225	ND	U	1.78
	VINYL CHLORIDE	0.00108	0.728	ND	UJ	0.00206	ND	U	0.516	ND	U	1.94	ND	U	2.15	ND	U	0.00214	ND	U	0.00237	ND	U	0.00225	ND	U	1.78
	XYLENES	3.13	814	ND	UJ	0.00619	ND	U	1.55	**92.3**		5.81	**68.2**		6.44	0.00129	J	0.00641	ND	U	0.0071	0.00131	J	0.00676	**126**	J	5.33
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	37.5		0.68	12.3		0.63	10.1		0.72	6.25		0.66	46.7		0.65	3.24		0.67	7.35	J-	0.7	5.66		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP019			DP019			DP020			DP020			DP020			DP020			DP020			DP020		
			SAMPLE NO	FFOR0106			FFOR0104-R			FFOR0107			FFOR0108			FFOR0109			FFOR0110			FFOR0111			FFOR0112		
			SAMPLE DATE	20-Jun-11			26-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			15-16 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1080		87.8	603		49.5	15.3		4.03	12.7		4.04	1.45	J	4.28	17.4		4.71	107		9.2	156		22.1
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	6460		461	1750		121	0.962	J	4.96	0.995	J	5.46	0.846	J	5.61	0.935	J	5.81	2360		544	6060		435
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	5.58	J	0.363	2.6	J	0.405	0.01	J	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	2.01	J	0.383	4.2	J	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.727	ND	U	0.809	ND	U	0.673	ND	U	0.674	ND	U	0.704	ND	U	0.777	ND	U	0.766	ND	U	0.729
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	ANTHRACENE	5,410	17,200	0.0339	J	0.363	ND	U	0.405	0.0356	J	0.336	0.0393	J	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	0.0725	J	0.363	ND	U	0.405	0.0633	J	0.336	0.0573	J	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	0.0465	J	0.363	ND	U	0.405	0.0723	J	0.336	ND	U	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0538	J	0.363	ND	U	0.405	0.0795	J	0.336	ND	U	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	0.0204	J	0.363	ND	U	0.405	0.0939	J	0.336	0.166	J	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	0.03	J	0.363	ND	U	0.405	0.0419	J	0.336	ND	U	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	CHRYSENE	160	147	0.0658	J	0.363	ND	U	0.405	0.108	J	0.336	0.0876	J	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DIBENZOFURAN	NE	NE	0.126	J	0.363	0.0603	J	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	FLUORANTHENE	2,430	2,290	0.124	J	0.363	0.00976	J	0.405	0.0544	J	0.336	0.0491	J	0.337	ND	U	0.352	ND	U	0.388	0.0116	J	0.383	0.0181	J	0.364
	FLUORENE	406	2,290	0.0586	J	0.363	0.0292	J	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	0.0271	J	0.383	0.0515	J	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.405	0.0539	J	0.336	ND	U	3.37	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	**2.34**	J	0.363	**1.45**	J	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	**0.536**	J	0.383	**1.37**	J	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP019			DP019			DP020			DP020			DP020			DP020			DP020			DP020		
			SAMPLE NO	FFOR0106			FFOR0104-R			FFOR0107			FFOR0108			FFOR0109			FFOR0110			FFOR0111			FFOR0112		
			SAMPLE DATE	20-Jun-11			26-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			15-16 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	2.02	ND	U	1.68	ND	U	1.68	ND	U	1.76	ND	U	1.94	ND	U	1.92	ND	U	1.82
	PHENANTHRENE	571	1,830	0.132	J	0.363	0.0163	J	0.405	0.0156	J	0.336	0.0157	J	0.337	ND	U	0.352	ND	U	0.388	0.0224	J	0.383	0.0346	J	0.364
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
	PYRENE	1,790	1,720	0.147	J	0.363	ND	U	0.405	0.0812	J	0.336	0.0717	J	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	0.0204	J	0.364
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.405	ND	U	0.336	ND	U	0.337	ND	U	0.352	ND	U	0.388	ND	U	0.383	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	UJ	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	1.91	**3.12**		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1-DICHLOROETHENE	2.32	449	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,1-DICHLOROPROPENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2,4-TRIMETHYLBENZENE	NE	NE	127	J	1.91	76.9		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	76.3		2.25	138		4.13
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2-DIBROMOETHANE	0.000308	0.588	ND	UJ	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	1.91	ND	U	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	U	2.25	ND	U	4.13
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	1.91	ND	U	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	U	2.25	ND	U	4.13
	1,3,5-TRIMETHYLBENZENE	NE	NE	40.6	J	1.91	22		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	22.2		2.25	42.2		4.13
	1,3-DICHLOROBENZENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,3-DICHLOROPROPANE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	1-CHLOROHEXANE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	2,2-DICHLOROPROPANE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	2-BUTANONE	25.5	37,100	ND	U	4.78	ND	UJ	2.83	0.00508	J	0.00507	0.00525	J	0.0048	ND	UJ	0.00467	0.0034	J	0.00609	ND	U	5.62	ND	U	10.3
	2-CHLOROTOLUENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	2-HEXANONE	NE	NE	ND	U	4.78	ND	UJ	2.83	ND	U	0.00507	ND	U	0.0048	ND	U	0.00467	ND	U	0.00609	ND	UJ	5.62	ND	UJ	10.3
	2-PROPENAL	0.000146	0.404	ND	UJ	23.9	ND	UJ	14.1	ND	U	0.0254	ND	U	0.024	ND	U	0.0233	ND	U	0.0304	ND	UJ	28.1	ND	UJ	51.6
	2-PROPENENITRILE	0.0016969	4.55	ND	U	23.9	ND	UJ	14.1	ND	U	0.0254	ND	U	0.024	ND	U	0.0233	ND	U	0.0304	ND	U	28.1	ND	U	51.6
	4-CHLOROTOLUENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	4.78	ND	UJ	2.83	ND	U	0.00507	ND	U	0.0048	ND	U	0.00467	ND	U	0.00609	ND	U	5.62	ND	U	10.3
	ACETONE	77.1	66,600	ND	U	23.9	ND	UJ	14.1	0.0246	J	0.0254	0.0281		0.024	0.00368	J	0.0233	0.0136	J	0.0304	ND	U	28.1	ND	U	51.6
	BENZENE	0.0345	15.4	ND	U	1.91	ND	U	1.13	0.000406	J	0.00203	0.00039	J	0.00192	ND	U	0.00187	0.00224	J	0.00244	ND	U	2.25	ND	U	4.13
	BROMOBENZENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	BROMOCHLOROMETHANE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	BROMOFORM	12.1	6,116	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	BROMOMETHANE	0.0385	16.5	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CARBON DISULFIDE	5.65	1,530	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	1.91	ND	U	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	UJ	2.25	ND	UJ	4.13
	CHLOROBENZENE	0.984	376	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CHLOROETHANE	107	29,800	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CHLOROFORM	0.00918	5.86	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CHLOROMETHANE	0.879	275	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	U	2.25	ND	U	4.13
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	DIBROMOMETHANE	0.0342	51.6	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	ETHYLBENZENE	0.26	68.4	**37**	J	1.91	**18.1**		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	**10.6**		2.25	**55.5**		4.13
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	ISOPROPYLBENZENE	17.3	2,430	16.1	J	1.91	9.73		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	6.13		2.25	**18.7**		4.13
	M,P-XYLENES	NE	NE	167	J	3.83	90.8		2.26	ND	U	0.00406	ND	U	0.00384	ND	U	0.00373	0.00152	J	0.00487	56.2		4.49	237		8.26
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	METHYLENE CHLORIDE	0.824	409	ND	U	4.78	ND	U	2.83	ND	U	0.00507	ND	U	0.0048	ND	U	0.00467	ND	U	0.00609	ND	U	5.62	ND	U	10.3
	NAPHTHALENE	0.0713	43.0	**4.57**		1.91	**5.1**		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	**3.45**		2.25	**5.68**		4.13
	N-BUTYLBENZENE	NE	NE	ND	U	1.91	5.73		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	6.85		2.25	12.3		4.13
	N-PROPYLBENZENE	NE	NE	28.2	J	1.91	15.5		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	9.52		2.25	ND	U	4.13
	O-XYLENE	3.13	898	**67.7**	J	1.91	**40.4**		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	**22.9**		2.25	**95**		4.13

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		LOCATION CODE		DP019			DP019			DP020			DP020			DP020			DP020			DP020			DP020		
		SAMPLE NO		FFOR0106			FFOR0104-R			FFOR0107			FFOR0108			FFOR0109			FFOR0110			FFOR0111			FFOR0112		
		SAMPLE DATE		20-Jun-11			26-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
		SAMPLE PURPOSE		FD			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			15-16 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	11.6		1.91	5.91		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	7.57		2.25	15		4.13
	SEC-BUTYLBENZENE	NE	NE	9.75		1.91	5.21		1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	5.83		2.25	ND	U	4.13
	STYRENE	27.7	7,280	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	TERT-BUTYLBENZENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	TETRACHLOROETHENE	0.00861	7.02	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	TOLUENE	25.3	5,270	4.4		1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	0.0025		0.00244	1.11	J	2.25	11.8		4.13
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.91	ND	U	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	U	2.25	ND	U	4.13
	TRICHLOROETHENE	0.0211	8.77	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	UJ	2.25	ND	UJ	4.13
	VINYL ACETATE	1.52	2,560	ND	U	1.91	ND	UJ	1.13	ND	UJ	0.00203	ND	UJ	0.00192	ND	UJ	0.00187	ND	UJ	0.00244	ND	U	2.25	ND	U	4.13
	VINYL CHLORIDE	0.00108	0.728	ND	U	1.91	ND	U	1.13	ND	U	0.00203	ND	U	0.00192	ND	U	0.00187	ND	U	0.00244	ND	U	2.25	ND	U	4.13
	XYLENES	3.13	814	**234**	J	5.74	**131**		3.39	ND	U	0.00609	ND	U	0.00576	ND	U	0.0056	0.00152	J	0.00731	**79.1**		6.74	**332**		12.4
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.36		0.67	11.5		0.74	19.4		0.61	18.2		0.61	2.7		0.64	10.1		0.71	8.96		0.7	4.96		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP021			DP021			DP021			DP021			DP021			DP021			DP022			DP022		
			SAMPLE NO	FFOR0113			FFOR0114			FFOR0115			FFOR0116			FFOR0117			FFOR0118			FFOR0119			FFOR0120		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	125		16.9	27.3		4.39	25		4.32	1590		216	2320		234	4580		439	16.7		4.28	937		220
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	3.75	J	4.81	ND	U	5.1	1.34	J	7.18	416	J	52.9	1890	J	117	3860		550	1.33	J	5.2	53.6	J	11.3
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	UJ	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	0.0154	J	0.353	ND	U	0.359	ND	U	0.358	3.81	J	0.36	13.3	J	1.96	27.7		3.58	0.0107	J	0.348	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.707	ND	U	0.719	ND	U	0.715	ND	U	0.72	ND	U	0.784	ND	U	0.716	ND	U	0.697	ND	U	0.725
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	0.0677	J	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	ANTHRACENE	5,410	17,200	0.251	J	0.353	0.0243	J	0.359	0.0201	J	0.358	0.072	J	0.36	ND	U	0.392	0.03	J	0.358	0.268	J	0.348	0.264	J	0.363
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.359	ND	U	0.358	0.158	J	0.36	ND	U	0.392	0.0623	J	0.358	1.23		0.348	0.915		0.363
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	0.0297	J	0.359	ND	U	3.58	0.0604	J	0.36	0.0151	J	0.392	0.0294	J	0.358	**1.19**		0.348	**0.616**		0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	0.0333	J	0.359	ND	U	3.58	0.113	J	0.36	ND	U	0.392	0.0451	J	0.358	1.37		0.348	0.809		0.363
	BENZO(GHI)PERYLENE	NE	NE	0.124	J	0.353	0.0361	J	0.359	ND	U	3.58	0.0292	J	0.36	ND	U	0.392	0.0123	J	0.358	0.656		0.348	0.313	J	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.359	ND	U	3.58	0.0546	J	0.36	ND	U	0.392	0.0223	J	0.358	0.547		0.348	0.409		0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	0.0256	J	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	CARBAZOLE	NE	NE	0.0532	J	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	0.265	J	0.348	ND	U	0.363
	CHRYSENE	160	147	ND	U	0.353	0.0286	J	0.359	0.0282	J	0.358	0.0931	J	0.36	0.0205	J	0.392	0.0486	J	0.358	2.34		0.348	0.62		0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.033	J	0.353	ND	U	0.359	ND	U	3.58	ND	U	0.36	ND	U	0.392	ND	U	0.358	**0.235**	J	0.348	ND	U	0.363
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	0.468	J	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	0.0232	J	0.392	0.015	J	0.358	0.0186	J	0.348	0.0382	J	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	FLUORANTHENE	2,430	2,290	0.0112	J	0.353	0.00844	J	0.359	0.00841	J	0.358	0.439		0.36	0.0456	J	0.392	0.152	J	0.358	1.23		0.348	1.94		0.363
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.359	ND	U	0.358	0.146	J	0.36	ND	U	0.392	0.253	J	0.358	0.0245	J	0.348	0.225	J	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	UJ	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.359	ND	U	3.58	ND	U	0.36	ND	U	0.392	ND	U	0.358	0.658		0.348	0.334	J	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	**8.49**		3.58	ND	U	0.348	**0.127**	J	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	3.58	ND	U	0.348	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP021			DP021			DP021			DP021			DP021			DP021			DP022			DP022		
			SAMPLE NO	FFOR0113			FFOR0114			FFOR0115			FFOR0116			FFOR0117			FFOR0118			FFOR0119			FFOR0120		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.8	ND	U	1.79	ND	U	1.8	ND	U	1.96	ND	U	1.79	ND	U	1.74	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.359	ND	U	0.358	0.39		0.36	0.0502	J	0.392	0.159	J	0.358	0.512		0.348	1.15		0.363
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	U	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
	PYRENE	1,790	1,720	ND	U	0.353	0.0292	J	0.359	0.0334	J	0.358	0.503		0.36	0.0525	J	0.392	0.163	J	0.358	1.3		0.348	2.55		0.363
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.359	ND	U	0.358	ND	UJ	0.36	ND	U	0.392	ND	U	0.358	ND	U	0.348	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	UJ	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.028	J	0.0787	ND	U	0.121	ND	U	0.0024	2.16	J	4.48	41.2		3.76	73.6		4.1	ND	U	0.0018	1.12	J	2.14
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0787	ND	UJ	0.121	ND	U	0.0024	ND	U	4.48	ND	UJ	3.76	ND	UJ	4.1	ND	U	0.0018	ND	U	2.14
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	3.15	J	4.48	12.8		3.76	22.6		4.1	ND	U	0.0018	0.618	J	2.14
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	1-CHLOROHEXANE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	2-BUTANONE	25.5	37,100	ND	U	0.197	ND	U	0.302	ND	U	0.00599	ND	U	11.2	ND	U	9.41	ND	U	10.3	0.0028	J	0.0045	ND	U	5.35
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	2-HEXANONE	NE	NE	ND	U	0.197	ND	UJ	0.302	ND	U	0.00599	ND	U	11.2	ND	UJ	9.41	ND	UJ	10.3	ND	U	0.0045	ND	U	5.35
	2-PROPENAL	0.000146	0.404	ND	UJ	0.983	ND	UJ	1.51	ND	UJ	0.03	ND	UJ	56	ND	UJ	47.1	ND	UJ	51.3	ND	U	0.0225	ND	UJ	26.8
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.983	ND	U	1.51	ND	UJ	0.03	ND	U	56	ND	U	47.1	ND	U	51.3	ND	U	0.0225	ND	U	26.8
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.197	ND	U	0.302	ND	U	0.00599	ND	U	11.2	ND	U	9.41	ND	U	10.3	ND	U	0.0045	ND	U	5.35
	ACETONE	77.1	66,600	ND	U	0.983	ND	UJ	1.51	ND	U	0.03	ND	U	56	ND	UJ	47.1	ND	UJ	51.3	0.0151	J	0.0225	ND	U	26.8
	BENZENE	0.0345	15.4	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	BROMOBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	BROMOFORM	12.1	6,116	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	BROMOMETHANE	0.0385	16.5	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	CHLOROBENZENE	0.984	376	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CHLOROETHANE	107	29,800	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CHLOROFORM	0.00918	5.86	ND	U	0.0787	**0.0319**	J	0.121	ND	U	0.0024	**1.2**	J	4.48	**0.941**	J	3.76	**1.06**	J	4.1	ND	U	0.0018	ND	U	2.14
	CHLOROMETHANE	0.879	275	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	ETHYLBENZENE	0.26	68.4	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	**7.05**		3.76	**18.5**		4.1	ND	U	0.0018	ND	U	2.14
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	3.36	J	3.76	7.73		4.1	ND	U	0.0018	ND	U	2.14
	M,P-XYLENES	NE	NE	ND	U	0.157	ND	U	0.241	ND	U	0.00479	ND	U	8.96	19.2		7.53	52.7		8.21	ND	U	0.0036	ND	U	4.28
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	METHYLENE CHLORIDE	0.824	409	ND	U	0.197	ND	U	0.302	ND	U	0.00599	ND	U	11.2	ND	U	9.41	ND	U	10.3	ND	U	0.0045	ND	U	5.35
	NAPHTHALENE	0.0713	43.0	0.07	J	0.0787	0.0307	J	0.121	ND	U	0.0024	**4.67**		4.48	**14**		3.76	**23.7**		4.1	ND	U	0.0018	**4.85**		2.14
	N-BUTYLBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	12.5		3.76	24		4.1	ND	U	0.0018	ND	U	2.14
	N-PROPYLBENZENE	NE	NE	ND	UJ	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	6.77		3.76	14.3		4.1	ND	U	0.0018	0.132	J	2.14
	O-XYLENE	3.13	898	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	**4.41**		3.76	**18.7**		4.1	ND	U	0.0018	ND	U	2.14

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP021			DP021			DP021			DP021			DP021			DP021			DP022			DP022		
		SAMPLE NO		FFOR0113			FFOR0114			FFOR0115			FFOR0116			FFOR0117			FFOR0118			FFOR0119			FFOR0120		
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	1.31	J	4.48	6.18		3.76	11.5		4.1	ND	U	0.0018	0.244	J	2.14
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	7.58		3.76	14.1		4.1	ND	U	0.0018	ND	U	2.14
	STYRENE	27.7	7,280	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	TOLUENE	25.3	5,270	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	0.878	J	4.1	ND	U	0.0018	ND	U	2.14
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	VINYL ACETATE	1.52	2,560	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	UJ	0.0018	ND	U	2.14
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0787	ND	U	0.121	ND	U	0.0024	ND	U	4.48	ND	U	3.76	ND	U	4.1	ND	U	0.0018	ND	U	2.14
	XYLENES	3.13	814	ND	U	0.236	ND	U	0.362	ND	U	0.00719	ND	U	13.4	**23.6**		11.3	**71.3**		12.3	ND	U	0.0054	ND	U	6.43
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	14.4		0.64	6.19		0.65	5.71		0.65	6.58	J	3.27	10.3		0.71	5.59		0.66	25		0.64	4.31		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP022			DP022			DP022			DP023			DP023			DP023			DP023			DP023		
			SAMPLE NO	FFOR0121			FFOR0122			FFOR0123			FFOR0124			FFOR0125			FFOR0126			FFOR0127			FFOR0128		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4860		477	4230		465	5610		439	47.5		4.06	11.3		4.53	4860		451	4650		440	5210		476
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	994	J	121	1450	J	88.7	3250	J	111	1.76	J	5.05	ND	U	6.28	730	J	70	628	J	60	1840	J	561
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,4-DINITROPHENOL	1.26	122	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2-CHLOROPHENOL	2.31	391	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2-METHYLNAPHTHALENE	NE	NE	20.2		3.97	13.8		3.85	30.2		3.66	ND	U	0.339	ND	U	0.369	17.8		3.73	14.8		3.66	24.1		3.89
	2-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	2-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	2-NITROPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.795	ND	U	0.769	ND	U	7.32	ND	U	0.678	ND	U	0.737	ND	U	7.47	ND	U	7.31	ND	U	7.77
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	3-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	4-CHLOROANILINE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	4-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	4-NITROPHENOL	NE	NE	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4
	ACENAPHTHENE	338	3,440	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	ACENAPHTHYLENE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	ANTHRACENE	5,410	17,200	0.208	J	0.397	0.107	J	0.385	ND	U	3.66	0.0187	J	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BENZENAMINE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BENZO(A)ANTHRACENE	1.57	1.48	0.628	J	0.397	0.407	J	0.385	0.559	J	3.66	0.123	J	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BENZO(A)PYRENE	0.52	0.148	**0.518**	J	0.397	**0.393**	J	0.385	**0.547**	J	3.66	ND	U	0.339	0.0575	J	0.369	0.141	J	3.73	ND	U	3.66	ND	U	3.89
	BENZO(B)FLUORANTHENE	5.31	1.48	0.642	J	0.397	0.463	J	0.385	0.674	J	3.66	0.15	J	0.339	0.063	J	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BENZO(GHI)PERYLENE	NE	NE	0.258	J	0.397	0.219	J	0.385	0.303	J	3.66	0.131	J	0.339	0.33	J	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BENZO(K)FLUORANTHENE	52.0	14.8	0.284	J	0.397	0.228	J	0.385	0.336	J	3.66	0.108	J	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0383	J	0.397	ND	U	0.385	ND	U	3.66	0.0223	J	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	CARBAZOLE	NE	NE	0.0454	J	0.397	0.049	J	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	CHRYSENE	160	147	0.671	J	0.397	0.619	J	0.385	0.803	J	3.66	0.302	J	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	0.0458	J	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DIBENZOFURAN	NE	NE	ND	U	0.397	ND	U	0.385	0.955	J	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DIETHYL PHTHALATE	193	48,900	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DI-N-BUTYL PHTHALATE	139	6,110	0.0316	J	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	FLUORANTHENE	2,430	2,290	1.07	J	0.397	0.535	J	0.385	0.692	J	3.66	0.092	J	0.339	ND	U	0.369	0.276	J	3.73	0.279	J	3.66	ND	U	3.89
	FLUORENE	406	2,290	0.337	J	0.397	0.164	J	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.261	J	0.397	0.219	J	0.385	ND	U	3.66	0.111	J	0.339	0.293	J	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	ISOPHORONE	3.84	5,120	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	NAPHTHALENE	0.0713	43.0	ND	U	0.397	ND	U	0.385	**11.2**		3.66	ND	U	0.339	ND	U	0.369	**4.49**		3.73	**3.62**	J	3.66	**8.16**		3.89
	NITROBENZENE	0.0125	53.5	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89

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		LOCATION CODE		DP022			DP022			DP022			DP023			DP023			DP023			DP023			DP023				
		SAMPLE NO		FFOR0121			FFOR0122			FFOR0123			FFOR0124			FFOR0125			FFOR0126			FFOR0127			FFOR0128				
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG				
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.99	ND	U	1.92	ND	U	18.3	ND	U	1.7	ND	U	1.84	ND	U	18.7	ND	U	18.3	ND	U	19.4		
	PHENANTHRENE	571	1,830	0.661	J	0.397	0.24	J	0.385	0.281	J	3.66	0.0183	J	0.339	ND	U	0.369	0.164	J	3.73	0.165	J	3.66	ND	U	3.89		
	PHENOL	99.5	18,300	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
	PYRENE	1,790	1,720	1.31	J	0.397	0.631	J	0.385	0.642	J	3.66	0.132	J	0.339	ND	U	0.369	0.351	J	3.73	0.33	J	3.66	ND	U	3.89		
	PYRIDINE	NE	NE	ND	U	0.397	ND	U	0.385	ND	U	3.66	ND	U	0.339	ND	U	0.369	ND	U	3.73	ND	U	3.66	ND	U	3.89		
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1-DICHLOROETHENE	2.32	449	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,1-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2,4-TRIMETHYLBENZENE	NE	NE	30.6		4.13	63.1		4.75	68.5		4.4	ND	U	0.00195	ND	U	0.00293	33.4		6.52	28.1		5.75	112		5.49		
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	4.13	ND	U	4.75	ND	UJ	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,3,5-TRIMETHYLBENZENE	NE	NE	10.2		4.13	15.4		4.75	17.7		4.4	ND	U	0.00195	ND	U	0.00293	8.59		6.52	7.08		5.75	27.2		5.49		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,3-DICHLOROPROPANE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	1-CHLOROHEXANE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	2,2-DICHLOROPROPANE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	2-BUTANONE	25.5	37,100	ND	U	10.3	ND	U	11.9	ND	U	11	0.00481	J	0.00487	ND	U	0.00734	ND	U	16.3	ND	U	14.4	ND	U	13.7		
	2-CHLOROTOLUENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	2-HEXANONE	NE	NE	ND	UJ	10.3	ND	U	11.9	ND	UJ	11	ND	U	0.00487	ND	U	0.00734	ND	U	16.3	ND	U	14.4	ND	U	13.7		
	2-PROPENAL	0.000146	0.404	ND	UJ	51.6	ND	UJ	59.3	ND	UJ	55	ND	U	0.0243	ND	UJ	0.0367	ND	UJ	81.5	ND	UJ	71.8	ND	UJ	68.6		
	2-PROPENENITRILE	0.0016969	4.55	ND	U	51.6	ND	U	59.3	ND	U	55	ND	U	0.0243	ND	UJ	0.0367	ND	U	81.5	ND	U	71.8	ND	U	68.6		
	4-CHLOROTOLUENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	10.3	ND	U	11.9	ND	U	11	ND	U	0.00487	ND	U	0.00734	ND	U	16.3	ND	U	14.4	ND	U	13.7		
	ACETONE	77.1	66,600	ND	UJ	51.6	ND	U	59.3	ND	UJ	55	0.024	J	0.0243	ND	U	0.0367	ND	U	81.5	ND	U	71.8	ND	U	68.6		
	BENZENE	0.0345	15.4	ND	U	4.13	ND	U	4.75	ND	U	4.4	0.000496	J	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	BROMOBENZENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	BROMOCHLOROMETHANE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	BROMOFORM	12.1	6,116	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	BROMOMETHANE	0.0385	16.5	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CARBON DISULFIDE	5.65	1,530	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CHLOROBENZENE	0.984	376	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CHLOROETHANE	107	29,800	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CHLOROFORM	0.00918	5.86	**1.03**	J	4.13	ND	U	4.75	**1.13**	J	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CHLOROMETHANE	0.879	275	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	DIBROMOMETHANE	0.0342	51.6	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	ETHYLBENZENE	0.26	68.4	ND	U	4.13	**20.5**		4.75	**25.9**		4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	**35.7**		5.49		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	ISOPROPYLBENZENE	17.3	2,430	ND	U	4.13	6.74		4.75	8.53		4.4	ND	U	0.00195	ND	U	0.00293	0.431	J	6.52	ND	U	5.75	12.4		5.49		
	M,P-XYLENES	NE	NE	1.99	J	8.26	36.7		9.49	41.9		8.8	0.000738	J	0.00389	ND	U	0.00587	5.54	J	13	4.27	J	11.5	61.4		11		
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49		
	METHYLENE CHLORIDE	0.824	409	ND	U	10.3	ND	U	11.9	ND	U	11	ND	U	0.00487	ND	U	0.00734	ND	U	16.3	ND	U	14.4	ND	U	13.7		
	NAPHTHALENE	0.0713	43.0	**14.5**		4.13	**30.4**		4.75	**27.7**		4.4	ND	U	0.00195	ND	U	0.00293	**26.7**		6.52	**23.7**		5.75	**56**		5.49		
	N-BUTYLBENZENE	NE	NE	ND	U	4.13	31.8		4.75	30.6		4.4	ND	U	0.00195	ND	U	0.00293	7.25		6.52	4.65	J	5.75	62.8		5.49		
	N-PROPYLBENZENE	NE	NE	ND	U	4.13	14.5		4.75	16.9		4.4	ND	U	0.00195	ND	U	0.00293	1.35	J	6.52	0.754	J	5.75	27.5		5.49		
	O-XYLENE	3.13	898	ND	U	4.13	**16.1**		4.75	**17.7**		4.4	ND	U	0.00195	ND	U	0.00293	0.576	J	6.52	0.581	J	5.75	**26.3**		5.49		

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP022			DP022			DP022			DP023			DP023			DP023			DP023			DP023		
		SAMPLE NO		FFOR0121			FFOR0122			FFOR0123			FFOR0124			FFOR0125			FFOR0126			FFOR0127			FFOR0128		
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	4.13	16.2		4.75	12.4		4.4	ND	U	0.00195	ND	U	0.00293	9.7		6.52	8.28		5.75	29.4		5.49
	SEC-BUTYLBENZENE	NE	NE	ND	U	4.13	14.3		4.75	17.3		4.4	ND	U	0.00195	ND	U	0.00293	2.41	J	6.52	1.24	J	5.75	26.9		5.49
	STYRENE	27.7	7,280	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TERT-BUTYLBENZENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TETRACHLOROETHENE	0.00861	7.02	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TOLUENE	25.3	5,270	ND	U	4.13	2.89	J	4.75	5.02		4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	4.38	J	5.49
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TRICHLOROETHENE	0.0211	8.77	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	VINYL ACETATE	1.52	2,560	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	UJ	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	VINYL CHLORIDE	0.00108	0.728	ND	U	4.13	ND	U	4.75	ND	U	4.4	ND	U	0.00195	ND	U	0.00293	ND	U	6.52	ND	U	5.75	ND	U	5.49
	XYLENES	3.13	814	1.99	J	12.4	**52.9**		14.2	**59.6**		13.2	0.000738	J	0.00584	ND	U	0.0088	**6.12**	J	19.6	**4.84**	J	17.2	**87.7**		16.5
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.76		0.72	10.7		0.69	5.28		0.66	40.3		0.62	18.8		0.68	7.15		0.68	6.75		0.66	9.96		0.72

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP023			DP024			DP024			DP024			DP024			DP024			DP025			DP025		
			SAMPLE NO	FFOR0129			FFOR0130			FFOR0131			FFOR0132			FFOR0133			FFOR0134			FFOR0135			FFOR0136		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6350		435	6.37		4.08	1590		221	1170		210	7650		890	18400		1750	735		85.1	8380		891
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2620	J	407	1.83	J	4.66	96.9	J	45.9	289	J	60.7	2100	J	590	2790	J	562	69.6	J	68.4	1660	J	473
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,4-DINITROPHENOL	1.26	122	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2-CHLOROPHENOL	2.31	391	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2-METHYLNAPHTHALENE	NE	NE	36.5		3.58	ND	U	0.334	ND	U	3.67	8.13		3.4	41.6		3.71	93.6		7.33	2.95	J	3.46	32.1		3.64
	2-METHYLPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	2-NITROANILINE	NE	NE	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	2-NITROPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.15	ND	U	0.667	ND	U	7.34	ND	U	6.8	ND	U	7.41	ND	U	7.33	ND	U	6.93	ND	U	7.28
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	3-NITROANILINE	NE	NE	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	4-CHLOROANILINE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	4-NITROANILINE	NE	NE	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	4-NITROPHENOL	NE	NE	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	ACENAPHTHENE	338	3,440	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	ACENAPHTHYLENE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	ANTHRACENE	5,410	17,200	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZENAMINE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	CARBAZOLE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	CHRYSENE	160	147	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	DIBENZOFURAN	NE	NE	1.22	J	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	1.45	J	3.71	3	J	3.67	0.222	J	3.46	1.21	J	3.64
	DIETHYL PHTHALATE	193	48,900	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	UJ	3.46	ND	U	3.64
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	FLUORANTHENE	2,430	2,290	0.0758	J	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	FLUORENE	406	2,290	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	0.385	J	3.64
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	UJ	3.46	ND	U	3.64
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	ISOPHORONE	3.84	5,120	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	NAPHTHALENE	0.0713	43.0	**12.9**		3.58	ND	U	0.334	ND	U	3.67	**3.06**	J	3.4	**12.9**		3.71	ND	U	3.67	**0.635**	J	3.46	ND	U	3.64
	NITROBENZENE	0.0125	53.5	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP023			DP024			DP024			DP024			DP024			DP024			DP025			DP025		
			SAMPLE NO	FFOR0129			FFOR0130			FFOR0131			FFOR0132			FFOR0133			FFOR0134			FFOR0135			FFOR0136		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	PENTACHLOROPHENOL	0.256	8.94	ND	U	17.9	ND	U	1.67	ND	U	18.3	ND	U	17	ND	U	18.5	ND	U	18.3	ND	U	17.3	ND	U	18.2
	PHENANTHRENE	571	1,830	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	0.139	J	3.67	ND	U	3.46	ND	U	3.64
	PHENOL	99.5	18,300	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	PYRENE	1,790	1,720	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
	PYRIDINE	NE	NE	ND	U	3.58	ND	U	0.334	ND	U	3.67	ND	U	3.4	ND	U	3.71	ND	U	3.67	ND	U	3.46	ND	U	3.64
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1-DICHLOROETHENE	2.32	449	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,1-DICHLOROPROPENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2,4-TRIMETHYLBENZENE	NE	NE	80		4.65	0.000375	J	0.00179	0.635	J	4.2	4.36	J	5.21	65.8		5.1	94.9		3.06	0.889		0.799	59.2		4.4
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	UJ	3.06	ND	U	0.799	ND	U	4.4
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,3,5-TRIMETHYLBENZENE	NE	NE	18.6		4.65	ND	U	0.00179	0.623	J	4.2	2.38	J	5.21	15.2		5.1	20.8		3.06	0.302	J	0.799	13.6		4.4
	1,3-DICHLOROBENZENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,3-DICHLOROPROPANE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	1-CHLOROHEXANE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	2,2-DICHLOROPROPANE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	2-BUTANONE	25.5	37,100	ND	U	11.6	0.0022	J	0.00448	ND	U	10.5	ND	U	13	ND	U	12.7	ND	UJ	7.65	ND	U	2	ND	U	11
	2-CHLOROTOLUENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	2-HEXANONE	NE	NE	ND	U	11.6	ND	U	0.00448	ND	U	10.5	ND	U	13	ND	U	12.7	ND	U	7.65	ND	U	2	ND	U	11
	2-PROPENAL	0.000146	0.404	ND	UJ	58.2	ND	U	0.0224	ND	UJ	52.5	ND	UJ	65.1	ND	UJ	63.7	ND	UJ	38.3	ND	UJ	9.99	ND	UJ	55
	2-PROPENENITRILE	0.0016969	4.55	ND	U	58.2	ND	U	0.0224	ND	U	52.5	ND	U	65.1	ND	U	63.7	ND	U	38.3	ND	U	9.99	ND	U	55
	4-CHLOROTOLUENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	11.6	ND	U	0.00448	ND	U	10.5	ND	U	13	ND	U	12.7	ND	U	7.65	ND	U	2	ND	U	11
	ACETONE	77.1	66,600	ND	U	58.2	0.0151	J	0.0224	ND	U	52.5	ND	U	65.1	ND	U	63.7	ND	U	38.3	ND	U	9.99	ND	U	55
	BENZENE	0.0345	15.4	ND	U	4.65	0.00115	J	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	**0.58**	J	3.06	ND	U	0.799	ND	U	4.4
	BROMOBENZENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	BROMOCHLOROMETHANE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	BROMOFORM	12.1	6,116	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	BROMOMETHANE	0.0385	16.5	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CARBON DISULFIDE	5.65	1,530	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CHLOROBENZENE	0.984	376	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CHLOROETHANE	107	29,800	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CHLOROFORM	0.00918	5.86	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	**0.211**	J	0.799	ND	U	4.4
	CHLOROMETHANE	0.879	275	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	DIBROMOMETHANE	0.0342	51.6	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	ETHYLBENZENE	0.26	68.4	**26.8**		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	**16.2**		5.1	**39.1**		3.06	ND	U	0.799	**5.07**		4.4
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	ISOPROPYLBENZENE	17.3	2,430	9.02		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	7.03		5.1	12.4		3.06	ND	U	0.799	3.78	J	4.4
	M,P-XYLENES	NE	NE	40.9		9.3	0.000633	J	0.00358	ND	U	8.39	ND	U	10.4	21.9		10.2	42.3		6.12	ND	U	1.6	11.4		8.8
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	METHYLENE CHLORIDE	0.824	409	ND	U	11.6	ND	U	0.00448	ND	U	10.5	ND	U	13	ND	U	12.7	ND	U	7.65	ND	U	2	ND	U	11
	NAPHTHALENE	0.0713	43.0	**41.1**		4.65	ND	U	0.00179	**7.69**		4.2	**10.9**		5.21	**37.5**		5.1	**51.9**		3.06	**2.45**		0.799	**45**		4.4
	N-BUTYLBENZENE	NE	NE	45.5		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	42.6		5.1	ND	U	3.06	ND	U	0.799	41.6		4.4
	N-PROPYLBENZENE	NE	NE	20.5		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	16.1		5.1	26.3		3.06	ND	U	0.799	9.76		4.4
	O-XYLENE	3.13	898	**18**		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	**18.4**		3.06	ND	U	0.799	**6.75**		4.4

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP023			DP024			DP024			DP024			DP024			DP024			DP025			DP025		
				SAMPLE NO	FFOR0129			FFOR0130			FFOR0131			FFOR0132			FFOR0133			FFOR0134			FFOR0135			FFOR0136		
				SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	21.4		4.65	ND	U	0.00179	0.368	J	4.2	2.96	J	5.21	19.3		5.1	19.9		3.06	0.354	J	0.799	17.3		4.4
	SEC-BUTYLBENZENE	NE	NE	19.7		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	17.7		5.1	26.3		3.06	0.263	J	0.799	15.3		4.4
	STYRENE	27.7	7,280	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TERT-BUTYLBENZENE	NE	NE	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TETRACHLOROETHENE	0.00861	7.02	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TOLUENE	25.3	5,270	5.87		4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TRICHLOROETHENE	0.0211	8.77	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	VINYL ACETATE	1.52	2,560	ND	U	4.65	ND	UJ	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	VINYL CHLORIDE	0.00108	0.728	ND	U	4.65	ND	U	0.00179	ND	U	4.2	ND	U	5.21	ND	U	5.1	ND	U	3.06	ND	U	0.799	ND	U	4.4
	XYLENES	3.13	814	**58.8**		14	0.000633	J	0.00537	ND	U	12.6	ND	U	15.6	**21.9**		15.3	**60.7**		9.18	ND	U	2.4	**18.1**		13.2
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.9		0.66	5.46		0.62	42.2		0.67	18.8		0.63	9.36		0.67	4.73		0.67	31.4		0.64	25		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP025			DP025			DP025			DP025			DP026			DP026			DP026			DP026		
			SAMPLE NO	FFOR0137			FFOR0138			FFOR0139			FFOR0140			FFOR0141			FFOR0142			FFOR0143			FFOR0144		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7110		848	14100		969	18300		1740	17100		1760	140		20.6	7920		865	3050		415	15600		1740
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1090	J	95.3	2310	J	544	1860	J	409	1910	J	449	31.1	J	48.7	1070	J	116	590	J	71	2640	J	552
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,4-DINITROPHENOL	1.26	122	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2-CHLOROPHENOL	2.31	391	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2-METHYLNAPHTHALENE	NE	NE	26.3		3.51	48.5		4.05	68.3		3.64	71.8		3.65	0.587		0.338	32.4		3.57	12.1		3.45	57.7		3.54
	2-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	2-NITROANILINE	NE	NE	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	2-NITROPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.02	ND	U	8.1	ND	U	7.27	ND	U	7.3	ND	U	0.677	ND	U	7.13	ND	U	6.9	ND	U	7.08
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	3-NITROANILINE	NE	NE	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	4-CHLOROANILINE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	4-NITROANILINE	NE	NE	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	4-NITROPHENOL	NE	NE	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	ACENAPHTHENE	338	3,440	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	ACENAPHTHYLENE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	ANTHRACENE	5,410	17,200	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.109	J	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BENZENAMINE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.651		0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	**0.694**		0.338	**0.188**	J	3.57	ND	U	3.45	ND	U	3.54
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.887		0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.447		0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.435		0.338	0.203	J	3.57	ND	U	3.45	0.161	J	3.54
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	CARBAZOLE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.0795	J	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	CHRYSENE	160	147	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	1.12		0.338	0.331	J	3.57	0.178	J	3.45	0.176	J	3.54
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.139	J	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	DIBENZOFURAN	NE	NE	1.02	J	3.51	1.82	J	4.05	2.65	J	3.64	2.79	J	3.65	0.0672	J	0.338	1.29	J	3.57	0.543	J	3.45	2.26	J	3.54
	DIETHYL PHTHALATE	193	48,900	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	FLUORANTHENE	2,430	2,290	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.784		0.338	0.352	J	3.57	0.119	J	3.45	0.119	J	3.54
	FLUORENE	406	2,290	0.299	J	3.51	0.537	J	4.05	0.743	J	3.64	0.765	J	3.65	0.043	J	0.338	0.41	J	3.57	0.167	J	3.45	0.721	J	3.54
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.374		0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	ISOPHORONE	3.84	5,120	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	NAPHTHALENE	0.0713	43.0	ND	U	3.51	**19.6**		4.05	**28.5**		3.64	**29.2**		3.65	0.0674	J	0.338	ND	U	3.57	**4.34**		3.45	ND	U	3.54
	NITROBENZENE	0.0125	53.5	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP025			DP025			DP025			DP025			DP026			DP026			DP026			DP026		
		SAMPLE NO		FFOR0137			FFOR0138			FFOR0139			FFOR0140			FFOR0141			FFOR0142			FFOR0143			FFOR0144		
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	PENTACHLOROPHENOL	0.256	8.94	ND	U	17.6	ND	U	20.2	ND	U	18.2	ND	U	18.3	ND	U	1.69	ND	U	17.8	ND	U	17.2	ND	U	17.7
	PHENANTHRENE	571	1,830	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.275	J	0.338	0.175	J	3.57	ND	U	3.45	0.14	J	3.54
	PHENOL	99.5	18,300	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
	PYRENE	1,790	1,720	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	0.772		0.338	0.304	J	3.57	ND	U	3.45	ND	U	3.54
	PYRIDINE	NE	NE	ND	U	3.51	ND	U	4.05	ND	U	3.64	ND	U	3.65	ND	U	0.338	ND	U	3.57	ND	U	3.45	ND	U	3.54
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	3.92	ND	UJ	2.02	ND	UJ	1.76	ND	UJ	1.77	ND	U	0.00209	ND	UJ	2.19	ND	UJ	2.39	ND	UJ	2.03
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,1-DICHLOROETHENE	2.32	449	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,1-DICHLOROPROPENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2,4-TRIMETHYLBENZENE	NE	NE	32.6		3.92	67		2.02	96.7		1.76	88.1		1.77	0.00184	J	0.00209	37.5		2.19	14.5		2.39	83.6		2.03
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,3,5-TRIMETHYLBENZENE	NE	NE	6.35		3.92	14.9		2.02	23		1.76	19.7		1.77	0.00138	J	0.00209	8.61		2.19	2.01	J	2.39	19.8		2.03
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,3-DICHLOROPROPANE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	1-CHLOROHEXANE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	2,2-DICHLOROPROPANE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	2-BUTANONE	25.5	37,100	ND	UJ	9.81	ND	U	5.05	ND	U	4.41	ND	U	4.41	0.00764	J	0.00523	ND	U	5.47	ND	U	5.98	ND	U	5.07
	2-CHLOROTOLUENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	2-HEXANONE	NE	NE	ND	U	9.81	ND	U	5.05	ND	U	4.41	ND	U	4.41	ND	U	0.00523	ND	U	5.47	ND	U	5.98	ND	U	5.07
	2-PROPENAL	0.000146	0.404	ND	UJ	49	ND	UJ	25.3	ND	UJ	22	ND	UJ	22.1	ND	U	0.0261	ND	UJ	27.4	ND	UJ	29.9	ND	UJ	25.3
	2-PROPENENITRILE	0.0016969	4.55	ND	U	49	ND	U	25.3	ND	U	22	ND	U	22.1	ND	U	0.0261	ND	U	27.4	ND	U	29.9	ND	U	25.3
	4-CHLOROTOLUENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	9.81	ND	U	5.05	ND	U	4.41	ND	U	4.41	ND	U	0.00523	ND	U	5.47	ND	U	5.98	ND	U	5.07
	ACETONE	77.1	66,600	ND	U	49	ND	U	25.3	ND	U	22	ND	UJ	22.1	0.0282		0.0261	ND	U	27.4	ND	U	29.9	ND	U	25.3
	BENZENE	0.0345	15.4	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	0.000666	J	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	BROMOBENZENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	BROMOCHLOROMETHANE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	BROMOFORM	12.1	6,116	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	BROMOMETHANE	0.0385	16.5	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CARBON DISULFIDE	5.65	1,530	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CHLOROBENZENE	0.984	376	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CHLOROETHANE	107	29,800	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CHLOROFORM	0.00918	5.86	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CHLOROMETHANE	0.879	275	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	DIBROMOMETHANE	0.0342	51.6	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	ETHYLBENZENE	0.26	68.4	**2.06**	J	3.92	**24.4**		2.02	**33.2**		1.76	**26.1**		1.77	ND	U	0.00209	**2.55**		2.19	**1.04**	J	2.39	**7.21**		2.03
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	ISOPROPYLBENZENE	17.3	2,430	ND	U	3.92	8.15		2.02	11.9		1.76	10.3		1.77	ND	U	0.00209	1.48	J	2.19	ND	U	2.39	2.06		2.03
	M,P-XYLENES	NE	NE	7.88		7.85	27.6		4.04	36		3.53	28.9		3.53	ND	U	0.00418	5.96		4.38	1.97	J	4.78	34.7		4.05
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	METHYLENE CHLORIDE	0.824	409	ND	U	9.81	ND	U	5.05	ND	U	4.41	ND	U	4.41	ND	U	0.00523	ND	U	5.47	ND	U	5.98	ND	U	5.07
	NAPHTHALENE	0.0713	43.0	**20.1**		3.92	**32.8**		2.02	**49.5**		1.76	**49.8**		1.77	0.0242		0.00209	**25.1**		2.19	**8.69**		2.39	**39.5**		2.03
	N-BUTYLBENZENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	N-PROPYLBENZENE	NE	NE	ND	U	3.92	18.6	J	2.02	28.4	J	1.76	25	J	1.77	ND	U	0.00209	3.31	J	2.19	ND	UJ	2.39	3.41	J	2.03
	O-XYLENE	3.13	898	**3.94**		3.92	ND	U	2.02	**14.2**		1.76	**9.84**		1.77	ND	U	0.00209	**3.46**		2.19	1.16	J	2.39	2.02	J	2.03

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP025			DP025			DP025			DP025			DP026			DP026			DP026			DP026		
		SAMPLE NO		FFOR0137			FFOR0138			FFOR0139			FFOR0140			FFOR0141			FFOR0142			FFOR0143			FFOR0144		
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	9.63		3.92	14		2.02	17.8		1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	16		2.03
	SEC-BUTYLBENZENE	NE	NE	7.75		3.92	18.6		2.02	26.9		1.76	24.6		1.77	ND	U	0.00209	8.88		2.19	ND	U	2.39	9.78		2.03
	STYRENE	27.7	7,280	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TERT-BUTYLBENZENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TETRACHLOROETHENE	0.00861	7.02	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TOLUENE	25.3	5,270	ND	U	3.92	ND	U	2.02	2.31		1.76	ND	U	1.77	0.00303		0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TRICHLOROETHENE	0.0211	8.77	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	VINYL ACETATE	1.52	2,560	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	UJ	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	VINYL CHLORIDE	0.00108	0.728	ND	U	3.92	ND	U	2.02	ND	U	1.76	ND	U	1.77	ND	U	0.00209	ND	U	2.19	ND	U	2.39	ND	U	2.03
	XYLENES	3.13	814	**11.8**		11.8	**27.6**		6.07	**50.2**		5.29	**38.7**		5.3	ND	U	0.00627	**9.42**		6.57	3.13	J	7.17	**36.6**		6.08
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	51.5		0.64	12.6		0.73	6.88		0.66	6.88		0.66	47.5		0.62	51.3		0.66	32.8		0.63	23.7		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP026			DP027			DP027			DP027			DP027			DP027			DP027			DP028		
			SAMPLE NO	FFOR0145			FFOR0146			FFOR0147			FFOR0148			FFOR0149			FFOR0150			FFOR0151			FFOR0152		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	10400		843	4.97		4.09	4090		440	3540		425	2420		212	11800		954	9360		854	4.4		4.11
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2200		558	1.72	J	5.93	546	J	623	1510		745	1470		738	2680		594	2300		594	ND	U	4.65
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,4-DINITROPHENOL	1.26	122	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2-CHLOROPHENOL	2.31	391	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2-METHYLNAPHTHALENE	NE	NE	40.6		3.51	ND	U	0.334	2.13	J	3.66	12		3.55	9.64		3.53	39.9		3.89	32.1		3.58	ND	U	0.341
	2-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	2-NITROANILINE	NE	NE	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.02	ND	U	0.669	ND	U	7.32	ND	U	7.1	ND	U	7.05	ND	U	7.79	ND	U	7.16	ND	U	0.681
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	3-NITROANILINE	NE	NE	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	4-CHLOROANILINE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	4-NITROANILINE	NE	NE	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	ACENAPHTHYLENE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	ANTHRACENE	5,410	17,200	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BENZENAMINE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	0.0157	J	0.341
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	CARBAZOLE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	CHRYSENE	160	147	0.202	J	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	0.0161	J	0.341
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	DIBENZOFURAN	NE	NE	1.58	J	3.51	ND	U	0.334	0.285	J	3.66	0.518	J	3.55	0.452	J	3.53	1.5	J	3.89	1.18	J	3.58	ND	U	0.341
	DIETHYL PHTHALATE	193	48,900	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	FLUORANTHENE	2,430	2,290	0.143	J	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	0.0129	J	0.341
	FLUORENE	406	2,290	0.451	J	3.51	ND	U	0.334	ND	U	3.66	0.171	J	3.55	ND	U	3.53	0.451	J	3.89	0.305	J	3.58	ND	U	0.341
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	ISOPHORONE	3.84	5,120	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	NAPHTHALENE	0.0713	43.0	**15.8**		3.51	ND	U	0.334	ND	U	3.66	**3**	J	3.55	**2.86**	J	3.53	**15.5**		3.89	**13**		3.58	ND	U	0.341
	NITROBENZENE	0.0125	53.5	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP026			DP027			DP027			DP027			DP027			DP027			DP027			DP028		
			SAMPLE NO	FFOR0145			FFOR0146			FFOR0147			FFOR0148			FFOR0149			FFOR0150			FFOR0151			FFOR0152		
			SAMPLE DATE	21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	PENTACHLOROPHENOL	0.256	8.94	ND	U	17.6	ND	U	1.67	ND	U	18.3	ND	U	17.7	ND	U	17.6	ND	U	19.5	ND	U	17.9	ND	U	1.7
	PHENANTHRENE	571	1,830	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	PHENOL	99.5	18,300	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	PYRENE	1,790	1,720	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
	PYRIDINE	NE	NE	ND	U	3.51	ND	U	0.334	ND	U	3.66	ND	U	3.55	ND	U	3.53	ND	U	3.89	ND	U	3.58	ND	U	0.341
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1-DICHLOROETHENE	2.32	449	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,1-DICHLOROPROPENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2,4-TRIMETHYLBENZENE	NE	NE	57.2		3.63	ND	U	0.0024	4.44	J	4.5	22	J	5.58	38.8	J	5.74	46.1		4.37	43.7		4.97	ND	U	0.00242
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	3.63	ND	U	0.0024	ND	UJ	4.5	ND	UJ	5.58	ND	UJ	5.74	ND	UJ	4.37	ND	UJ	4.97	ND	U	0.00242
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,3,5-TRIMETHYLBENZENE	NE	NE	13.9		3.63	ND	U	0.0024	ND	U	4.5	3.39	J	5.58	8.7		5.74	8.76		4.37	11.4		4.97	ND	U	0.00242
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,3-DICHLOROPROPANE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	1-CHLOROHEXANE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	2,2-DICHLOROPROPANE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	2-BUTANONE	25.5	37,100	ND	U	9.07	0.00304	J	0.006	ND	UJ	11.3	ND	UJ	13.9	ND	UJ	14.4	ND	UJ	10.9	ND	U	12.4	ND	U	0.00604
	2-CHLOROTOLUENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	2-HEXANONE	NE	NE	ND	UJ	9.07	ND	U	0.006	ND	U	11.3	ND	U	13.9	ND	U	14.4	ND	U	10.9	ND	UJ	12.4	ND	U	0.00604
	2-PROPENAL	0.000146	0.404	ND	UJ	45.4	ND	UJ	0.03	ND	UJ	56.3	ND	UJ	69.7	ND	UJ	71.8	ND	UJ	54.6	ND	UJ	62.1	ND	UJ	0.0302
	2-PROPENENITRILE	0.0016969	4.55	ND	U	45.4	ND	UJ	0.03	ND	U	56.3	ND	U	69.7	ND	U	71.8	ND	U	54.6	ND	U	62.1	ND	UJ	0.0302
	4-CHLOROTOLUENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	9.07	ND	U	0.006	ND	U	11.3	ND	U	13.9	ND	U	14.4	ND	U	10.9	ND	U	12.4	ND	U	0.00604
	ACETONE	77.1	66,600	ND	UJ	45.4	ND	U	0.03	ND	U	56.3	ND	U	69.7	ND	U	71.8	ND	U	54.6	ND	UJ	62.1	0.0344	J	0.0302
	BENZENE	0.0345	15.4	ND	U	3.63	0.00187	J	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	BROMOBENZENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	BROMOCHLOROMETHANE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	BROMOFORM	12.1	6,116	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	BROMOMETHANE	0.0385	16.5	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CARBON DISULFIDE	5.65	1,530	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CHLOROBENZENE	0.984	376	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CHLOROETHANE	107	29,800	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CHLOROFORM	0.00918	5.86	**0.956**	J	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	**1.18**	J	4.97	ND	U	0.00242
	CHLOROMETHANE	0.879	275	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	DIBROMOMETHANE	0.0342	51.6	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	ETHYLBENZENE	0.26	68.4	**10.2**		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	**11.6**		4.37	**8.66**		4.97	ND	U	0.00242
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	ISOPROPYLBENZENE	17.3	2,430	3.69		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	4.91		4.37	4.54	J	4.97	ND	U	0.00242
	M,P-XYLENES	NE	NE	21.2		7.26	ND	U	0.0048	ND	U	9.01	ND	U	11.2	1.94	J	11.5	13.6		8.73	7.94	J	9.94	ND	U	0.00483
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	METHYLENE CHLORIDE	0.824	409	ND	U	9.07	ND	U	0.006	ND	U	11.3	ND	U	13.9	ND	U	14.4	ND	U	10.9	ND	U	12.4	ND	U	0.00604
	NAPHTHALENE	0.0713	43.0	**32.9**		3.63	ND	U	0.0024	**3.96**	J	4.5	**12.3**		5.58	**19.6**		5.74	**24.6**		4.37	**23.4**		4.97	ND	U	0.00242
	N-BUTYLBENZENE	NE	NE	21.1		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	22.8		4.97	ND	U	0.00242
	N-PROPYLBENZENE	NE	NE	7.96		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	8.16		4.37	10.3		4.97	ND	U	0.00242
	O-XYLENE	3.13	898	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	**7.22**		4.37	ND	U	4.97	ND	U	0.00242

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP026			DP027			DP027			DP027			DP027			DP027			DP027			DP028		
		SAMPLE NO		FFOR0145			FFOR0146			FFOR0147			FFOR0148			FFOR0149			FFOR0150			FFOR0151			FFOR0152		
		SAMPLE DATE		21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			21-Jun-11			22-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	10.8		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	10.7		4.37	8.71		4.97	ND	U	0.00242
	SEC-BUTYLBENZENE	NE	NE	10.1		3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	14.5		4.37	12.4		4.97	ND	U	0.00242
	STYRENE	27.7	7,280	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TERT-BUTYLBENZENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TETRACHLOROETHENE	0.00861	7.02	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TOLUENE	25.3	5,270	ND	U	3.63	0.00204	J	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	0.000335	J	0.00242
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TRICHLOROETHENE	0.0211	8.77	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	VINYL ACETATE	1.52	2,560	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	VINYL CHLORIDE	0.00108	0.728	ND	U	3.63	ND	U	0.0024	ND	U	4.5	ND	U	5.58	ND	U	5.74	ND	U	4.37	ND	U	4.97	ND	U	0.00242
	XYLENES	3.13	814	**21.2**		10.9	ND	U	0.00721	ND	U	13.5	ND	U	16.7	1.94	J	17.2	**20.9**		13.1	**7.94**	J	14.9	ND	U	0.00725
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	20.3		0.64	5.31		0.61	4.58		0.67	4.78		0.65	4.79		0.64	7.68		0.72	5.33		0.65	9.49		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP028			DP028			DP028			DP028			DP029			DP029			DP029			DP029		
			SAMPLE NO	FFOR0153			FFOR0154			FFOR0155			FFOR0156			FFOR0157			FFOR0158			FFOR0159			FFOR0160		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6160		897	3240		415	7110		924	18900		1770	6.7		4.12	12.4		4.3	4970		859	6620		915
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	461	J	103	687		370	680	J	43	1640	J	87.8	1.4	J	4.87	ND	U	5.32	926	J	97.1	939		484
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,4-DINITROPHENOL	1.26	122	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2-CHLOROPHENOL	2.31	391	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2-METHYLNAPHTHALENE	NE	NE	14.3		3.69	12.9		3.45	30.3		3.77	88.5		7.16	ND	U	0.346	ND	U	0.355	22.8		3.53	31.2		3.84
	2-METHYLPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	2-NITROANILINE	NE	NE	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	2-NITROPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.37	ND	U	6.89	ND	U	7.55	ND	U	14.3	ND	U	0.692	ND	U	0.71	ND	U	7.07	ND	U	7.67
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	3-NITROANILINE	NE	NE	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	4-CHLOROANILINE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	4-NITROANILINE	NE	NE	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	4-NITROPHENOL	NE	NE	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	ACENAPHTHENE	338	3,440	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	ACENAPHTHYLENE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	ANTHRACENE	5,410	17,200	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	0.0189	J	0.346	0.0188	J	0.355	ND	U	3.53	ND	U	3.84
	BENZENAMINE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0577	J	0.355	ND	U	3.53	ND	U	3.84
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	0.0144	J	0.346	0.0544	J	0.355	ND	U	3.53	ND	U	3.84
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0723	J	0.355	ND	U	3.53	ND	U	3.84
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	0.0235	J	0.346	0.0575	J	0.355	ND	U	3.53	ND	U	3.84
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0209	J	0.355	ND	U	3.53	ND	U	3.84
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	CARBAZOLE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	CHRYSENE	160	147	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	0.0199	J	0.346	0.0914	J	0.355	ND	U	3.53	ND	U	3.84
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	DIBENZOFURAN	NE	NE	0.788	J	3.69	0.534	J	3.45	1.11	J	3.77	2.89	J	7.16	ND	U	0.346	ND	U	0.355	0.922	J	3.53	1.24	J	3.84
	DIETHYL PHTHALATE	193	48,900	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	FLUORANTHENE	2,430	2,290	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	0.0114	J	0.346	0.0847	J	0.355	ND	U	3.53	ND	U	3.84
	FLUORENE	406	2,290	0.291	J	3.69	0.185	J	3.45	0.252	J	3.77	0.759	J	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	0.344	J	3.84
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0521	J	0.355	ND	U	3.53	ND	U	3.84
	ISOPHORONE	3.84	5,120	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	NAPHTHALENE	0.0713	43.0	**6.5**		3.69	**4.91**		3.45	**13.7**		3.77	**41.2**		7.16	ND	U	0.346	ND	U	0.355	**10.5**	J+	3.53	**13.6**		3.84
	NITROBENZENE	0.0125	53.5	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP028			DP028			DP028			DP028			DP029			DP029			DP029			DP029		
			SAMPLE NO	FFOR0153			FFOR0154			FFOR0155			FFOR0156			FFOR0157			FFOR0158			FFOR0159			FFOR0160		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	PENTACHLOROPHENOL	0.256	8.94	ND	U	18.4	ND	U	17.2	ND	U	18.9	ND	U	35.8	ND	U	1.73	ND	U	1.77	ND	U	17.7	ND	U	19.2
	PHENANTHRENE	571	1,830	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0271	J	0.355	ND	U	3.53	ND	U	3.84
	PHENOL	99.5	18,300	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
	PYRENE	1,790	1,720	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	0.0624	J	0.355	ND	U	3.53	ND	U	3.84
	PYRIDINE	NE	NE	ND	U	3.69	ND	U	3.45	ND	U	3.77	ND	U	7.16	ND	U	0.346	ND	U	0.355	ND	U	3.53	ND	U	3.84
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1-DICHLOROETHENE	2.32	449	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,1-DICHLOROPROPENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2,4-TRIMETHYLBENZENE	NE	NE	5.1		4.39	21.8		3.72	50		3.84	85.3		3.69	0.00564		0.00181	0.000148	J	0.00212	ND	U	1.94	32.4		3.99
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	4.39	ND	UJ	3.72	ND	UJ	3.84	ND	UJ	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	UJ	3.99
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,3,5-TRIMETHYLBENZENE	NE	NE	5.57		4.39	5.96		3.72	12		3.84	20.4		3.69	0.00125	J	0.00181	ND	U	0.00212	6.99		1.94	7.95		3.99
	1,3-DICHLOROBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,3-DICHLOROPROPANE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	1-CHLOROHEXANE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	2,2-DICHLOROPROPANE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	2-BUTANONE	25.5	37,100	ND	U	11	ND	U	9.3	ND	U	9.59	ND	U	9.23	0.0027	J	0.00452	0.00327	J	0.0053	ND	U	4.86	2.44	J	9.97
	2-CHLOROTOLUENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	2-HEXANONE	NE	NE	ND	U	11	ND	U	9.3	ND	U	9.59	ND	U	9.23	ND	U	0.00452	ND	U	0.0053	ND	U	4.86	ND	U	9.97
	2-PROPENAL	0.000146	0.404	ND	UJ	54.9	ND	UJ	46.5	ND	UJ	48	ND	UJ	46.1	ND	UJ	0.0226	ND	UJ	0.0265	ND	UJ	24.3	ND	UJ	49.8
	2-PROPENENITRILE	0.0016969	4.55	ND	U	54.9	ND	U	46.5	ND	U	48	ND	U	46.1	ND	UJ	0.0226	ND	UJ	0.0265	ND	UJ	24.3	ND	U	49.8
	4-CHLOROTOLUENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	11	ND	U	9.3	ND	U	9.59	ND	U	9.23	ND	U	0.00452	ND	U	0.0053	ND	U	4.86	ND	U	9.97
	ACETONE	77.1	66,600	ND	U	54.9	ND	U	46.5	ND	U	48	ND	U	46.1	0.0146	J	0.0226	0.0188	J	0.0265	ND	U	24.3	6.77	J	49.8
	BENZENE	0.0345	15.4	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	0.000201	J	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	BROMOBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	BROMOCHLOROMETHANE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	BROMOFORM	12.1	6,116	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	BROMOMETHANE	0.0385	16.5	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CARBON DISULFIDE	5.65	1,530	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CHLOROBENZENE	0.984	376	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CHLOROETHANE	107	29,800	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CHLOROFORM	0.00918	5.86	**1.19**	J	4.39	**1.04**	J	3.72	**1.04**	J	3.84	**0.962**	J	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	**1.16**	J	3.99
	CHLOROMETHANE	0.879	275	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	DIBROMOMETHANE	0.0342	51.6	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	UJ	1.94	ND	U	3.99
	ETHYLBENZENE	0.26	68.4	ND	U	4.39	ND	U	3.72	**19.6**		3.84	**32.7**		3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	**10.5**		3.99
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	ISOPROPYLBENZENE	17.3	2,430	ND	U	4.39	ND	U	3.72	6.88		3.84	11.1		3.69	ND	U	0.00181	ND	U	0.00212	1.94		1.94	4.21		3.99
	M,P-XYLENES	NE	NE	ND	U	8.78	ND	U	7.44	19.4		7.67	32.5		7.38	ND	U	0.00362	ND	U	0.00424	ND	U	3.88	9.29		7.98
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	METHYLENE CHLORIDE	0.824	409	ND	U	11	ND	U	9.3	ND	U	9.59	ND	U	9.23	ND	U	0.00452	ND	U	0.0053	ND	U	4.86	ND	U	9.97
	NAPHTHALENE	0.0713	43.0	**11.5**		4.39	**12.1**		3.72	**29.8**		3.84	**49**		3.69	0.00882		0.00181	ND	U	0.00212	**13.6**	J+	1.94	**20.2**		3.99
	N-BUTYLBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	26.3		3.84	45.6		3.69	0.00355		0.00181	ND	U	0.00212	6.12		1.94	17		3.99
	N-PROPYLBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	14.9		3.84	24.5		3.69	0.00119	J	0.00181	ND	U	0.00212	ND	U	1.94	8.73		3.99
	O-XYLENE	3.13	898	ND	U	4.39	ND	U	3.72	**8.2**		3.84	**17**		3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	**4.42**		3.99

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP028			DP028			DP028			DP028			DP029			DP029			DP029			DP029		
		SAMPLE NO		FFOR0153			FFOR0154			FFOR0155			FFOR0156			FFOR0157			FFOR0158			FFOR0159			FFOR0160		
		SAMPLE DATE		22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	2.96	J	4.39	2.48	J	3.72	10.2		3.84	14.8		3.69	0.00243		0.00181	ND	U	0.00212	5.31		1.94	6.52		3.99
	SEC-BUTYLBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	13.7		3.84	23.1		3.69	0.00138	J	0.00181	ND	U	0.00212	3.48		1.94	9.3		3.99
	STYRENE	27.7	7,280	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TERT-BUTYLBENZENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TETRACHLOROETHENE	0.00861	7.02	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TOLUENE	25.3	5,270	ND	U	4.39	ND	U	3.72	1.48	J	3.84	9.21		3.69	0.000386	J	0.00181	0.000328	J	0.00212	ND	U	1.94	ND	U	3.99
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TRICHLOROETHENE	0.0211	8.77	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	UJ	1.94	ND	U	3.99
	VINYL ACETATE	1.52	2,560	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	VINYL CHLORIDE	0.00108	0.728	ND	U	4.39	ND	U	3.72	ND	U	3.84	ND	U	3.69	ND	U	0.00181	ND	U	0.00212	ND	U	1.94	ND	U	3.99
	XYLENES	3.13	814	ND	U	13.2	ND	U	11.2	**27.6**		11.5	**49.5**		11.1	ND	U	0.00543	ND	U	0.00636	ND	U	5.83	**13.7**		12
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	37.6		1.36	27.1		0.63	32		0.69	4.41		0.66	7.86		0.62	31.3		0.65	106	J	0.64	92.9		0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP029			DP029			DP030			DP030			DP030			DP030			DP030			DP030		
			SAMPLE NO	FFOR0161			FFOR0162			FFOR0163			FFOR0164			FFOR0165			FFOR0166			FFOR0167			FFOR0168		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	16800		1720	12400		887	56		4.11	37.1		4.13	3.58	J	4.3	460		42.1	2400		235	2970		218
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1480		463	1500		472	1.87	J	4.47	1.69	J	5.55	1.19	J	5.01	15.9	J	5.67	247	J	46.3	802	J	47.4
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	62.7		3.5	54.1		3.6	0.0103	J	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	5.9		0.391	19		3.59
	2-METHYLPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	6.99	ND	U	7.2	ND	U	0.67	ND	U	0.681	ND	U	0.712	ND	U	0.707	ND	U	0.781	ND	U	0.719
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	3.5	ND	U	3.6	0.0949	J	0.335	0.0138	J	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	3.5	ND	U	3.6	0.23	J	0.335	0.0484	J	0.34	ND	U	0.356	ND	U	0.354	0.0382	J	0.391	0.236	J	0.359
	BENZENAMINE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.5	ND	U	3.6	0.0271	J	0.335	ND	U	0.34	ND	U	0.356	0.0689	J	0.354	0.16	J	0.391	0.711	J	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.5	ND	U	3.6	0.0282	J	0.335	0.0173	J	0.34	ND	U	0.356	0.136	J	0.354	0.0937	J	0.391	**0.584**	J	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.5	ND	U	3.6	0.048	J	0.335	ND	U	0.34	ND	U	0.356	0.303	J	0.354	0.226	J	0.391	1.03	J	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.5	ND	U	3.6	0.155	J	0.335	0.0696	J	0.34	ND	U	0.356	0.153	J	0.354	0.0531	J	0.391	0.223	J	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	0.0922	J	0.354	0.093	J	0.391	0.364	J	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.5	ND	U	3.6	0.0437	J	0.335	0.0217	J	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	3.5	ND	U	3.6	0.105	J	0.335	0.021	J	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	0.0838	J	0.359
	CHRYSENE	160	147	ND	U	3.5	ND	U	3.6	0.0283	J	0.335	0.0208	J	0.34	ND	U	0.356	0.1	J	0.354	0.306	J	0.391	0.962	J	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	0.0237	J	0.391	0.035	J	0.359
	DIBENZOFURAN	NE	NE	2.39	J	3.5	1.99	J	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	0.192	J	0.391	0.499	J	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	3.5	ND	U	3.6	0.0402	J	0.335	0.024	J	0.34	ND	U	0.356	0.0956	J	0.354	0.533		0.391	1.6	J	0.359
	FLUORENE	406	2,290	0.55	J	3.5	0.481	J	3.6	0.0149	J	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	0.0942	J	0.391	0.387	J	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.5	ND	U	3.6	0.039	J	0.335	ND	U	0.34	ND	U	0.356	0.15	J	0.354	0.0405	J	0.391	0.227	J	0.359
	ISOPHORONE	3.84	5,120	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	**28.8**		3.5	**24.7**		3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	**1.97**		0.391	**7.23**	J	0.359
	NITROBENZENE	0.0125	53.5	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP029			DP029			DP030			DP030			DP030			DP030			DP030			DP030		
			SAMPLE NO	FFOR0161			FFOR0162			FFOR0163			FFOR0164			FFOR0165			FFOR0166			FFOR0167			FFOR0168		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	17.5	ND	U	18	ND	U	1.67	ND	U	1.7	ND	U	1.78	ND	U	1.77	ND	U	1.95	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	3.5	ND	U	3.6	0.0204	J	0.335	0.0109	J	0.34	ND	U	0.356	ND	U	0.354	0.398		0.391	1	J	0.359
	PHENOL	99.5	18,300	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	3.5	ND	U	3.6	0.0388	J	0.335	0.0283	J	0.34	ND	U	0.356	0.145	J	0.354	0.406		0.391	1.82	J	0.359
	PYRIDINE	NE	NE	ND	U	3.5	ND	U	3.6	ND	U	0.335	ND	U	0.34	ND	U	0.356	ND	U	0.354	ND	U	0.391	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1-DICHLOROETHENE	2.32	449	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,1-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2,4-TRIMETHYLBENZENE	NE	NE	76		4.13	75.4		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	34.2		4.24	56.6		3.74
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	4.13	ND	UJ	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	UJ	0.981	ND	UJ	4.24	ND	UJ	3.74
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,3,5-TRIMETHYLBENZENE	NE	NE	18		4.13	18		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	10.1		4.24	17.5		3.74
	1,3-DICHLOROBENZENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,3-DICHLOROPROPANE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	1-CHLOROHEXANE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	2,2-DICHLOROPROPANE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	2-BUTANONE	25.5	37,100	ND	U	10.3	ND	U	23.5	0.00558		0.00441	0.00647		0.00446	0.00842		0.00519	ND	U	2.45	3.65	J	10.6	ND	U	9.36
	2-CHLOROTOLUENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	2-HEXANONE	NE	NE	ND	U	10.3	ND	U	23.5	ND	U	0.00441	ND	U	0.00446	ND	U	0.00519	ND	U	2.45	ND	U	10.6	ND	U	9.36
	2-PROPENAL	0.000146	0.404	ND	UJ	51.6	ND	UJ	117	ND	UJ	0.0221	ND	UJ	0.0223	ND	UJ	0.0259	ND	UJ	12.3	ND	UJ	53	ND	UJ	46.8
	2-PROPENENITRILE	0.0016969	4.55	ND	U	51.6	ND	U	117	ND	U	0.0221	ND	U	0.0223	ND	U	0.0259	ND	U	12.3	ND	U	53	ND	U	46.8
	4-CHLOROTOLUENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	10.3	ND	U	23.5	ND	U	0.00441	ND	U	0.00446	ND	U	0.00519	ND	U	2.45	ND	U	10.6	ND	U	9.36
	ACETONE	77.1	66,600	ND	U	51.6	ND	U	117	0.039		0.0221	0.0357		0.0223	0.0258	J	0.0259	ND	U	12.3	11	J	53	12.7	J	46.8
	BENZENE	0.0345	15.4	ND	U	4.13	ND	U	9.4	0.000312	J	0.00176	0.000357	J	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	BROMOBENZENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	BROMOCHLOROMETHANE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	BROMOFORM	12.1	6,116	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	BROMOMETHANE	0.0385	16.5	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CARBON DISULFIDE	5.65	1,530	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CHLOROBENZENE	0.984	376	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CHLOROETHANE	107	29,800	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CHLOROFORM	0.00918	5.86	**1.08**	J	4.13	**2.72**	J	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	**0.251**	J	0.981	**1.1**	J	4.24	**1**	J	3.74
	CHLOROMETHANE	0.879	275	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	DIBROMOMETHANE	0.0342	51.6	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	4.13	ND	U	9.4	ND	UJ	0.00176	ND	UJ	0.00178	ND	UJ	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	ETHYLBENZENE	0.26	68.4	**29.4**		4.13	**27.7**		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	**4.08**	J	4.24	**8.32**		3.74
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	ISOPROPYLBENZENE	17.3	2,430	10.5		4.13	9.98		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	2.93	J	4.24	4.91		3.74
	M,P-XYLENES	NE	NE	30		8.26	23.6		18.8	ND	U	0.00353	ND	U	0.00357	ND	U	0.00415	ND	U	1.96	4.27	J	8.48	15.8		7.49
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	METHYLENE CHLORIDE	0.824	409	ND	U	10.3	ND	U	23.5	ND	U	0.00441	ND	U	0.00446	ND	U	0.00519	ND	U	2.45	ND	U	10.6	ND	U	9.36
	NAPHTHALENE	0.0713	43.0	**45.1**		4.13	**46.9**		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	**15.3**		4.24	**20.9**		3.74
	N-BUTYLBENZENE	NE	NE	42		4.13	38.4		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	9.38		4.24	13.3		3.74
	N-PROPYLBENZENE	NE	NE	22.1		4.13	21.7		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	6.3		4.24	9.81		3.74
	O-XYLENE	3.13	898	**15**		4.13	**12.3**		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	1.37	J	4.24	**7.94**		3.74

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP029			DP029			DP030			DP030			DP030			DP030			DP030			DP030		
		SAMPLE NO		FFOR0161			FFOR0162			FFOR0163			FFOR0164			FFOR0165			FFOR0166			FFOR0167			FFOR0168		
		SAMPLE DATE		22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	21		4.13	14.1		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	5.68		4.24	8.84		3.74
	SEC-BUTYLBENZENE	NE	NE	21		4.13	21.5		9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	7.21		4.24	10.1		3.74
	STYRENE	27.7	7,280	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TERT-BUTYLBENZENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TETRACHLOROETHENE	0.00861	7.02	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TOLUENE	25.3	5,270	3.78	J	4.13	3.05	J	9.4	0.000914	J	0.00176	0.00111	J	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	1.12	J	3.74
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TRICHLOROETHENE	0.0211	8.77	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	4.13	ND	U	9.4	ND	UJ	0.00176	ND	UJ	0.00178	ND	UJ	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	VINYL ACETATE	1.52	2,560	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	VINYL CHLORIDE	0.00108	0.728	ND	U	4.13	ND	U	9.4	ND	U	0.00176	ND	U	0.00178	ND	U	0.00208	ND	U	0.981	ND	U	4.24	ND	U	3.74
	XYLENES	3.13	814	**45**		12.4	**35.9**		28.2	ND	U	0.00529	ND	U	0.00535	ND	U	0.00623	ND	U	2.94	**5.64**	J	12.7	**23.7**		11.2
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.97		0.64	9.42		0.67	19.9		0.62	18.9		0.62	3.36		0.65	4.82		0.64	10.7		0.71	5.01		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP031			DP031			DP031			DP031			DP031			DP031			DP032			DP032		
			SAMPLE NO	FFOR0169			FFOR0170			FFOR0171			FFOR0172			FFOR0173			FFOR0174			FFOR0175			FFOR0176		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.73		4.12	24.1		4.62	26.4		4.57	2670		229	2870		233	3520		433	7.18		4.13	6.47		4.43
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	5.39		5.04	ND	U	5.95	ND	U	4.93	386	J	108	1250		516	1740		598	ND	U	5.58	ND	U	5.65
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2-METHYLNAPHTHALENE	NE	NE	0.00995	J	0.346	ND	U	0.382	ND	U	0.38	9.46	J+	3.79	11		3.85	18.3		3.59	0.0162	J	0.346	0.011	J	0.371
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.691	ND	U	0.765	ND	U	0.761	ND	U	7.57	ND	U	0.77	ND	U	0.717	ND	U	0.692	ND	U	0.743
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	ANTHRACENE	5,410	17,200	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	0.0253	J	0.359	ND	U	0.346	0.0259	J	0.371
	BENZENAMINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0432	J	0.385	0.114	J	0.359	ND	U	0.346	0.0618	J	0.371
	BENZO(A)PYRENE	0.52	0.148	0.0178	J	0.346	0.0382	J	0.382	0.0287	J	0.38	ND	U	3.79	0.0338	J	0.385	0.0872	J	0.359	ND	U	0.346	0.0711	J	0.371
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0481	J	0.385	0.169	J	0.359	ND	U	0.346	0.0684	J	0.371
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	0.411		0.382	0.244	J	0.38	ND	U	3.79	0.0157	J	0.385	0.0426	J	0.359	0.0169	J	0.346	0.633		0.371
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0306	J	0.385	0.0575	J	0.359	ND	U	0.346	0.0441	J	0.371
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	CARBAZOLE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	0.0293	J	0.371
	CHRYSENE	160	147	0.0315	J	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0968	J	0.385	0.229	J	0.359	0.0172	J	0.346	0.074	J	0.371
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	DIBENZOFURAN	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	0.452	J	3.79	0.429	J	0.385	0.868	J	0.359	ND	U	0.346	ND	U	0.371
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	FLUORANTHENE	2,430	2,290	0.043	J	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0772	J	0.385	0.387	J	0.359	0.0125	J	0.346	0.106	J	0.371
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.382	ND	U	0.38	0.169	J	3.79	0.138	J	0.385	0.243	J	0.359	ND	U	0.346	ND	U	0.371
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	UJ	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	0.32	J	0.382	0.191	J	0.38	ND	U	3.79	ND	U	0.385	0.0375	J	0.359	ND	U	0.346	0.223	J	0.371
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	NAPHTHALENE	0.0713	43.0	ND	U	0.346	ND	U	0.382	ND	U	0.38	**3.85**	J+	3.79	**4.74**	J	0.385	**7.53**		3.59	ND	U	0.346	ND	U	0.371
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP031			DP031			DP031			DP031			DP031			DP031			DP032			DP032		
			SAMPLE NO	FFOR0169			FFOR0170			FFOR0171			FFOR0172			FFOR0173			FFOR0174			FFOR0175			FFOR0176		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.91	ND	U	1.9	ND	U	18.9	ND	U	1.92	ND	U	1.79	ND	U	1.73	ND	U	1.86
	PHENANTHRENE	571	1,830	0.0392	J	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0313	J	0.385	0.324	J	0.359	ND	U	0.346	0.0716	J	0.371
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
	PYRENE	1,790	1,720	0.0477	J	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	0.0728	J	0.385	0.288	J	0.359	0.0169	J	0.346	0.0888	J	0.371
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.38	ND	U	3.79	ND	U	0.385	ND	U	0.359	ND	U	0.346	ND	U	0.371
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000175	J	0.00182	0.000178	J	0.00215	0.000169	J	0.0022	20.3		2.24	51.7		3.91	41.8		12	ND	U	0.00219	ND	U	0.00247
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	6.4		2.24	13.6		3.91	13.6		12	ND	U	0.00219	ND	U	0.00247
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	1-CHLOROHEXANE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	2-BUTANONE	25.5	37,100	0.0053	J	0.00456	ND	U	0.00537	ND	U	0.00549	ND	U	5.61	ND	U	9.79	ND	U	29.9	0.00423	J	0.00546	0.00522	J	0.00618
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	2-HEXANONE	NE	NE	ND	U	0.00456	ND	U	0.00537	ND	U	0.00549	ND	UJ	5.61	ND	UJ	9.79	ND	UJ	29.9	ND	U	0.00546	ND	U	0.00618
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0228	ND	UJ	0.0269	ND	UJ	0.0275	ND	UJ	28	ND	UJ	48.9	ND	UJ	149	ND	UJ	0.0273	ND	UJ	0.0309
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0228	ND	UJ	0.0269	ND	UJ	0.0275	ND	U	28	ND	U	48.9	ND	U	149	ND	UJ	0.0273	ND	UJ	0.0309
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00456	ND	U	0.00537	ND	U	0.00549	ND	U	5.61	ND	U	9.79	ND	U	29.9	ND	U	0.00546	ND	U	0.00618
	ACETONE	77.1	66,600	0.0338	J	0.0228	ND	U	0.0269	ND	U	0.0275	ND	UJ	28	3.46	J	48.9	11.1	J	149	ND	UJ	0.0273	ND	UJ	0.0309
	BENZENE	0.0345	15.4	0.000271	J	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	BROMOBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	BROMOFORM	12.1	6,116	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	BROMOMETHANE	0.0385	16.5	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CHLOROBENZENE	0.984	376	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CHLOROETHANE	107	29,800	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CHLOROFORM	0.00918	5.86	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CHLOROMETHANE	0.879	275	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	**1.08**	J	2.24	**1.85**	J	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	ETHYLBENZENE	0.26	68.4	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	**0.781**	J	2.24	**14.8**		3.91	**7.89**	J	12	ND	U	0.00219	ND	U	0.00247
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	1.26	J	2.24	6.82		3.91	7.29	J	12	ND	U	0.00219	ND	U	0.00247
	M,P-XYLENES	NE	NE	ND	U	0.00365	ND	U	0.0043	ND	U	0.0044	2.13	J	4.49	18.2		7.83	14.4	J	23.9	ND	U	0.00437	ND	U	0.00495
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00456	ND	U	0.00537	ND	U	0.00549	ND	U	5.61	ND	U	9.79	ND	U	29.9	ND	U	0.00546	ND	U	0.00618
	NAPHTHALENE	0.0713	43.0	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	**13.9**		2.24	**24.1**		3.91	**30.2**		12	ND	U	0.00219	ND	U	0.00247
	N-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	9.14		2.24	32.5		3.91	27.9		12	ND	U	0.00219	ND	U	0.00247
	N-PROPYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	2.07	J	2.24	14.1		3.91	11.2	J	12	ND	U	0.00219	ND	U	0.00247
	O-XYLENE	3.13	898	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	**3.76**	J	3.91	**13.4**		12	ND	U	0.00219	ND	U	0.00247

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP031			DP031			DP031			DP031			DP031			DP031			DP032			DP032		
		SAMPLE NO		FFOR0169			FFOR0170			FFOR0171			FFOR0172			FFOR0173			FFOR0174			FFOR0175			FFOR0176		
		SAMPLE DATE		22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	5.16		2.24	21.8		3.91	18.4		12	ND	U	0.00219	ND	U	0.00247
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	2.92		2.24	14.5		3.91	14.3		12	ND	U	0.00219	ND	U	0.00247
	STYRENE	27.7	7,280	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TOLUENE	25.3	5,270	0.00104	J	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	0.00581		0.00219	ND	U	0.00247
	VINYL ACETATE	1.52	2,560	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	UJ	2.24	ND	UJ	3.91	ND	UJ	12	ND	U	0.00219	ND	U	0.00247
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00182	ND	U	0.00215	ND	U	0.0022	ND	U	2.24	ND	U	3.91	ND	U	12	ND	U	0.00219	ND	U	0.00247
	XYLENES	3.13	814	ND	U	0.00547	ND	U	0.00645	ND	U	0.00659	2.13	J	6.73	**21.9**		11.7	**27.7**	J	35.9	ND	U	0.00656	ND	U	0.00742
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	36.4		0.63	19.8		1.38	19.3		1.39	46.3	J-	0.69	12.2		0.7	4.71		0.65	7.5		0.63	17.9		1.35

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP032			DP032			DP032			DP033			DP033			DP033			DP033			DP033		
			SAMPLE NO	FFOR0177			FFOR0178			FFOR0179			FFOR0180			FFOR0181			FFOR0182			FFOR0183			FFOR0184		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	351		82.1	1580		241	4550		436	27.3		4.27	8.15		4.58	2.08	J	4.5	1.84	J	4.3	2.04	J	4.83
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	20.1	J	5.54	1220		492	1760		483	ND	U	4.86	ND	U	5.2	1.48	J	4.76	0.976	J	4.97	ND	U	5.18
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2-CHLOROPHENOL	2.31	391	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.343	7.34	J	0.398	23.2		3.66	ND	U	0.352	0.0119	J	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	2-NITROPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.687	ND	U	0.797	ND	U	0.731	ND	U	0.704	ND	U	0.755	ND	U	0.749	ND	U	0.722	ND	UJ	0.784
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	4-CHLOROANILINE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	ACENAPHTHENE	338	3,440	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	ACENAPHTHYLENE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	0.0226	J	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	ANTHRACENE	5,410	17,200	ND	U	0.343	ND	U	0.398	0.0129	J	0.366	0.0763	J	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZENAMINE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.343	0.0316	J	0.398	0.106	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZO(A)PYRENE	0.52	0.148	0.0311	J	0.343	0.0168	J	0.398	0.0568	J	0.366	ND	U	0.352	0.036	J	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.343	ND	U	0.398	0.124	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZO(GHI)PERYLENE	NE	NE	0.0285	J	0.343	ND	U	0.398	0.0438	J	0.366	0.0366	J	0.352	0.15	J	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.343	0.0218	J	0.398	0.073	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	CARBAZOLE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	0.0235	J	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	CHRYSENE	160	147	ND	U	0.343	0.0581	J	0.398	0.229	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.343	ND	U	0.398	0.0148	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DIBENZOFURAN	NE	NE	ND	U	0.343	0.292	J	0.398	1.02	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DIETHYL PHTHALATE	193	48,900	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	FLUORANTHENE	2,430	2,290	ND	U	0.343	0.0531	J	0.398	0.257	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	FLUORENE	406	2,290	ND	U	0.343	0.0829	J	0.398	0.306	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	0.19	J	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	ISOPHORONE	3.84	5,120	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	NAPHTHALENE	0.0713	43.0	ND	U	0.343	**2.61**	J	0.398	**9.58**		3.66	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	NITROBENZENE	0.0125	53.5	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP032			DP032			DP032			DP033			DP033			DP033			DP033			DP033		
			SAMPLE NO	FFOR0177			FFOR0178			FFOR0179			FFOR0180			FFOR0181			FFOR0182			FFOR0183			FFOR0184		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.99	ND	U	1.83	ND	U	1.76	ND	U	1.89	ND	U	1.87	ND	U	1.81	ND	U	1.96
	PHENANTHRENE	571	1,830	ND	U	0.343	0.0238	J	0.398	0.151	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	PHENOL	99.5	18,300	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	PYRENE	1,790	1,720	0.0194	J	0.343	0.0492	J	0.398	0.22	J	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
	PYRIDINE	NE	NE	ND	U	0.343	ND	U	0.398	ND	U	0.366	ND	U	0.352	ND	U	0.378	ND	U	0.375	ND	U	0.361	ND	U	0.392
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.955	J	2.19	41.8		3.98	35.6		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.19	ND	U	3.98	ND	UJ	2.09	ND	U	0.108	ND	U	0.00225	ND	UJ	0.102	ND	UJ	0.1	ND	UJ	0.115
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.804	J	2.19	10.6		3.98	8.05		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	1-CHLOROHEXANE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	2-BUTANONE	25.5	37,100	ND	U	5.47	ND	U	9.94	3.22	J	5.23	ND	U	0.27	0.0272	J	0.00562	1.13	J	0.254	0.545	J	0.251	0.469		0.287
	2-CHLOROTOLUENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	2-HEXANONE	NE	NE	ND	UJ	5.47	ND	UJ	9.94	ND	U	5.23	ND	UJ	0.27	ND	U	0.00562	ND	U	0.254	ND	U	0.251	ND	U	0.287
	2-PROPENAL	0.000146	0.404	ND	UJ	27.3	ND	UJ	49.7	ND	UJ	26.1	ND	UJ	1.35	ND	UJ	0.0281	ND	UJ	1.27	ND	UJ	1.25	ND	UJ	1.43
	2-PROPENENITRILE	0.0016969	4.55	ND	U	27.3	ND	U	49.7	ND	U	26.1	ND	U	1.35	ND	UJ	0.0281	ND	U	1.27	ND	U	1.25	ND	U	1.43
	4-CHLOROTOLUENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	5.47	ND	U	9.94	ND	U	5.23	ND	U	0.27	ND	U	0.00562	ND	U	0.254	ND	U	0.251	ND	U	0.287
	ACETONE	77.1	66,600	ND	UJ	27.3	3.48	J	49.7	9.27	J	26.1	ND	UJ	1.35	0.0898	J	0.0281	ND	U	1.27	1.59		1.25	1.41	J	1.43
	BENZENE	0.0345	15.4	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	BROMOBENZENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	BROMOFORM	12.1	6,116	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	BROMOMETHANE	0.0385	16.5	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CARBON DISULFIDE	5.65	1,530	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	2.19	ND	U	3.98	ND	UJ	2.09	ND	U	0.108	ND	U	0.00225	ND	UJ	0.102	ND	UJ	0.1	ND	UJ	0.115
	CHLOROBENZENE	0.984	376	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CHLOROETHANE	107	29,800	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CHLOROFORM	0.00918	5.86	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CHLOROMETHANE	0.879	275	**1.04**	J	2.19	**1.93**	J	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	ETHYLBENZENE	0.26	68.4	ND	U	2.19	**8.86**		3.98	**6.54**		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	ISOPROPYLBENZENE	17.3	2,430	ND	U	2.19	5.12		3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	M,P-XYLENES	NE	NE	ND	U	4.38	11.3		7.95	7.94		4.18	ND	U	0.216	ND	U	0.0045	ND	U	0.203	ND	U	0.201	ND	U	0.229
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	METHYLENE CHLORIDE	0.824	409	ND	U	5.47	ND	U	9.94	ND	U	5.23	ND	U	0.27	ND	U	0.00562	ND	U	0.254	ND	U	0.251	ND	U	0.287
	NAPHTHALENE	0.0713	43.0	**3.14**		2.19	**20.4**		3.98	**14.7**	J	2.09	**0.157**		0.108	ND	U	0.00225	ND	UJ	0.102	ND	UJ	0.1	ND	UJ	0.115
	N-BUTYLBENZENE	NE	NE	ND	U	2.19	26.6		3.98	19.5		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	N-PROPYLBENZENE	NE	NE	ND	U	2.19	10.7		3.98	6.28		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115
	O-XYLENE	3.13	898	ND	U	2.19	ND	U	3.98	0.752	J	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP032			DP032			DP032			DP033			DP033			DP033			DP033			DP033				
		SAMPLE NO		FFOR0177			FFOR0178			FFOR0179			FFOR0180			FFOR0181			FFOR0182			FFOR0183			FFOR0184				
		SAMPLE DATE		22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG				
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	2.19	17.9		3.98	16.8		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	SEC-BUTYLBENZENE	NE	NE	ND	U	2.19	12.2		3.98	9.92		2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	STYRENE	27.7	7,280	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TOLUENE	25.3	5,270	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	2.19	ND	U	3.98	ND	UJ	2.09	ND	U	0.108	ND	U	0.00225	ND	UJ	0.102	ND	UJ	0.1	ND	UJ	0.115		
	VINYL ACETATE	1.52	2,560	ND	UJ	2.19	ND	UJ	3.98	ND	U	2.09	ND	UJ	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.19	ND	U	3.98	ND	U	2.09	ND	U	0.108	ND	U	0.00225	ND	U	0.102	ND	U	0.1	ND	U	0.115		
	XYLENES	3.13	814	ND	U	6.56	**11.3**	J	11.9	**8.7**		6.27	ND	U	0.324	ND	U	0.00674	ND	U	0.305	ND	U	0.301	ND	U	0.344		
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.26		0.63	16.2		0.72	5.33		0.66	74.1		0.64	25.2		0.69	6.5		0.68	5.35		0.66	9.35		0.72		

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP033			DP034			DP034			DP034			DP034			DP034			DP035			DP035		
			SAMPLE NO	FFOR0185			FFOR0186			FFOR0187			FFOR0188			FFOR0189			FFOR0190			FFOR0191			FFOR0192		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.68	J	4.3	33.8		4.18	8.36		4.5	4.52		4.29	12		4.23	19.6		4.37	12.2		8.41	6.98		4.5
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.65	ND	U	4.83	ND	U	5.05	ND	U	4.71	6.89		4.66	54		4.84	ND	U	5.07	ND	U	5.21
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2-CHLOROPHENOL	2.31	391	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	UJ	0.715	ND	UJ	0.68	ND	UJ	0.755	ND	UJ	0.696	ND	UJ	0.706	ND	UJ	0.721	ND	UJ	0.687	ND	UJ	0.755
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	4-CHLOROANILINE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	ACENAPHTHYLENE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	ANTHRACENE	5,410	17,200	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.0264	J	0.343	ND	U	0.378
	BENZENAMINE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.157	J	0.343	ND	U	0.378
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	**0.171**	J	0.343	0.0145	J	0.378
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.251	J	0.343	ND	U	0.378
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.357	ND	U	0.34	0.111	J	0.378	0.0592	J	0.348	ND	U	0.353	ND	U	0.361	0.15	J	0.343	0.0302	J	0.378
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.0852	J	0.343	ND	U	0.378
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	0.0233	J	0.378
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	CARBAZOLE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	CHRYSENE	160	147	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.225	J	0.343	0.0197	J	0.378
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.0305	J	0.343	ND	U	0.378
	DIBENZOFURAN	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	DIETHYL PHTHALATE	193	48,900	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	FLUORANTHENE	2,430	2,290	ND	U	0.357	0.00855	J	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	0.0368	J	0.361	0.245	J	0.343	0.028	J	0.378
	FLUORENE	406	2,290	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.357	ND	U	0.34	0.118	J	0.378	0.0468	J	0.348	ND	U	0.353	ND	U	0.361	0.119	J	0.343	ND	U	0.378
	ISOPHORONE	3.84	5,120	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	NAPHTHALENE	0.0713	43.0	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	NITROBENZENE	0.0125	53.5	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP033			DP034			DP034			DP034			DP034			DP034			DP035			DP035		
			SAMPLE NO	FFOR0185			FFOR0186			FFOR0187			FFOR0188			FFOR0189			FFOR0190			FFOR0191			FFOR0192		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.7	ND	U	1.89	ND	U	1.74	ND	U	1.76	ND	U	1.8	ND	U	1.72	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	0.0308	J	0.361	0.0703	J	0.343	0.0127	J	0.378
	PHENOL	99.5	18,300	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
	PYRENE	1,790	1,720	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	0.213	J	0.343	0.0272	J	0.378
	PYRIDINE	NE	NE	ND	U	0.357	ND	U	0.34	ND	U	0.378	ND	U	0.348	ND	U	0.353	ND	U	0.361	ND	U	0.343	ND	U	0.378
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00182	ND	U	0.0019	ND	UJ	0.00205	ND	UJ	0.00199	ND	U	0.448	ND	U	0.927	ND	UJ	0.00227	ND	U	0.0024
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	1-CHLOROHEXANE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	2-BUTANONE	25.5	37,100	0.0333		0.00456	0.0101		0.00475	0.00962		0.00514	0.0215		0.00498	7.46		1.12	10.8	J	2.32	0.0024	J	0.00569	0.00431	J	0.006
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	2-HEXANONE	NE	NE	ND	U	0.00456	ND	U	0.00475	ND	U	0.00514	ND	U	0.00498	ND	U	1.12	ND	U	2.32	ND	U	0.00569	ND	U	0.006
	2-PROPENAL	0.000146	0.404	ND	U	0.0228	ND	U	0.0237	ND	U	0.0257	ND	U	0.0249	ND	UJ	5.6	ND	UJ	11.6	ND	U	0.0284	ND	UJ	0.03
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0228	ND	U	0.0237	ND	U	0.0257	ND	U	0.0249	ND	UJ	5.6	ND	UJ	11.6	ND	U	0.0284	ND	UJ	0.03
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00456	ND	U	0.00475	ND	U	0.00514	ND	U	0.00498	ND	U	1.12	ND	UJ	2.32	ND	U	0.00569	ND	U	0.006
	ACETONE	77.1	66,600	0.138		0.0228	0.0402		0.0237	0.0172	J	0.0257	0.0716		0.0249	22.4		5.6	37.6	J	11.6	0.00981	J	0.0284	ND	UJ	0.03
	BENZENE	0.0345	15.4	0.000127	J	0.00182	0.000517	J	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	BROMOBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	BROMOFORM	12.1	6,116	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	BROMOMETHANE	0.0385	16.5	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CHLOROBENZENE	0.984	376	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CHLOROETHANE	107	29,800	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CHLOROFORM	0.00918	5.86	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CHLOROMETHANE	0.879	275	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	UJ	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	ETHYLBENZENE	0.26	68.4	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	UJ	0.00227	ND	U	0.0024
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	M,P-XYLENES	NE	NE	ND	U	0.00365	ND	U	0.0038	ND	U	0.00411	ND	U	0.00398	ND	U	0.897	ND	U	1.85	ND	U	0.00455	ND	U	0.0048
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00456	ND	U	0.00475	ND	U	0.00514	ND	U	0.00498	ND	U	1.12	ND	U	2.32	ND	U	0.00569	ND	U	0.006
	NAPHTHALENE	0.0713	43.0	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	**0.339**	J	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	N-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	N-PROPYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	O-XYLENE	3.13	898	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP033			DP034			DP034			DP034			DP034			DP034			DP035			DP035		
			SAMPLE NO	FFOR0185			FFOR0186			FFOR0187			FFOR0188			FFOR0189			FFOR0190			FFOR0191			FFOR0192		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	STYRENE	27.7	7,280	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TOLUENE	25.3	5,270	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	UJ	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	VINYL ACETATE	1.52	2,560	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	UJ	0.927	ND	U	0.00227	ND	U	0.0024
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00182	ND	U	0.0019	ND	U	0.00205	ND	U	0.00199	ND	U	0.448	ND	U	0.927	ND	U	0.00227	ND	U	0.0024
	XYLENES	3.13	814	ND	U	0.00547	ND	U	0.0057	ND	U	0.00616	ND	U	0.00597	ND	U	1.35	ND	U	2.78	ND	U	0.00682	ND	U	0.0072
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.96		0.66	70.2		0.62	31.7		1.37	37.4		0.64	27.3		0.65	15.2		0.66	19.8	J-	0.63	38.3		1.37

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP035			DP035			DP035			DP035			DP036			DP036			DP036			DP036		
			SAMPLE NO	FFOR0193			FFOR0194			FFOR0195			FFOR0196			FFOR0197			FFOR0198			FFOR0199			FFOR0200		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.9	J	4.28	53.9		4.63	24.8		4.36	22.3		4.29	20.3		4.22	6.13		4.33	46.7		4.44	1920		232
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.58	23.7		7.09	54		4.87	35		5.34	13.9		5.08	ND	U	5.72	10.9		6.89	1820		697
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	UJ	1.74	ND	UJ	1.82	ND	UJ	1.83	ND	UJ	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	0.0281	J	0.348	ND	U	0.363	0.0105	J	0.366	0.539		0.387
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	UJ	0.703	ND	UJ	0.767	ND	UJ	0.708	ND	UJ	0.7	ND	U	0.696	ND	U	0.726	ND	U	0.733	ND	U	0.774
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	0.0299	J	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	0.117	J	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	0.0987	J	0.387
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	0.0897	J	0.387
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	0.0753	J	0.366	0.582		0.387
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	0.0695	J	0.348	ND	U	0.363	0.0393	J	0.366	0.125	J	0.387
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	0.0158	J	0.366	0.185	J	0.387
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	0.0501	J	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	0.386	J	0.387
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	1.38		0.387
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	0.0375	J	0.366	0.107	J	0.387
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP035			DP035			DP035			DP035			DP036			DP036			DP036			DP036		
			SAMPLE NO	FFOR0193			FFOR0194			FFOR0195			FFOR0196			FFOR0197			FFOR0198			FFOR0199			FFOR0200		
			SAMPLE DATE	22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.92	ND	U	1.77	ND	U	1.75	ND	U	1.74	ND	U	1.82	ND	U	1.83	ND	U	1.93
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	0.853		0.387
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	ND	U	0.366	ND	U	0.387
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	U	0.363	0.0372	J	0.366	1.29		0.387
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.384	ND	U	0.354	ND	U	0.35	ND	U	0.348	ND	UJ	0.363	ND	UJ	0.366	ND	UJ	0.387
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000636	J	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	0.000285	J	0.00198	0.000119	J	0.00184	ND	U	0.00219	22.1		5.95
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	UJ	5.95
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000294	J	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	0.000205	J	0.00198	ND	U	0.00184	ND	U	0.00219	12		5.95
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	1-CHLOROHEXANE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	2-BUTANONE	25.5	37,100	0.00399	J	0.00461	16	J	1.78	9.67		1.73	11.4	J	1.36	0.0128		0.00495	0.00228	J	0.0046	0.0153		0.00546	ND	U	14.9
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	2-HEXANONE	NE	NE	ND	U	0.00461	ND	U	1.78	ND	U	1.73	ND	U	1.36	ND	U	0.00495	ND	U	0.0046	ND	U	0.00546	ND	UJ	14.9
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0231	ND	UJ	8.88	ND	UJ	8.65	ND	UJ	6.79	ND	U	0.0247	ND	U	0.023	ND	U	0.0273	ND	UJ	74.4
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0231	ND	UJ	8.88	ND	U	8.65	ND	UJ	6.79	ND	U	0.0247	ND	U	0.023	ND	U	0.0273	ND	U	74.4
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00461	ND	UJ	1.78	ND	U	1.73	ND	UJ	1.36	ND	U	0.00495	ND	U	0.0046	ND	U	0.00546	ND	U	14.9
	ACETONE	77.1	66,600	0.016	J	0.0231	44.4	J	8.88	32.3		8.65	33.4	J	6.79	0.0817		0.0247	0.00533	J	0.023	0.0562		0.0273	7.34	J	74.4
	BENZENE	0.0345	15.4	0.00142	J	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	0.000526	J	0.00198	0.000157	J	0.00184	ND	U	0.00219	ND	U	5.95
	BROMOBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	BROMOFORM	12.1	6,116	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	BROMOMETHANE	0.0385	16.5	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CHLOROBENZENE	0.984	376	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CHLOROETHANE	107	29,800	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CHLOROFORM	0.00918	5.86	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	**1.58**	J	5.95
	CHLOROMETHANE	0.879	275	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	ETHYLBENZENE	0.26	68.4	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	0.00105	J	0.00219	**3.73**	J	5.95
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	2.32	J	5.95
	M,P-XYLENES	NE	NE	ND	U	0.00369	ND	U	1.42	ND	U	1.38	ND	U	1.09	0.000928	J	0.00396	ND	U	0.00368	ND	U	0.00437	20.1		11.9
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00461	ND	U	1.78	ND	U	1.73	ND	U	1.36	ND	U	0.00495	ND	U	0.0046	ND	U	0.00546	ND	U	14.9
	NAPHTHALENE	0.0713	43.0	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	**3.13**	J	5.95
	N-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	N-PROPYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	3.62	J	5.95
	O-XYLENE	3.13	898	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	0.00036	J	0.00198	ND	U	0.00184	ND	U	0.00219	**9.25**		5.95

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP035			DP035			DP035			DP035			DP036			DP036			DP036			DP036		
		SAMPLE NO		FFOR0193			FFOR0194			FFOR0195			FFOR0196			FFOR0197			FFOR0198			FFOR0199			FFOR0200		
		SAMPLE DATE		22-Jun-11			22-Jun-11			22-Jun-11			22-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	2.35	J	5.95
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	2.27	J	5.95
	STYRENE	27.7	7,280	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TOLUENE	25.3	5,270	0.00178	J	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	VINYL ACETATE	1.52	2,560	ND	U	0.00185	ND	UJ	0.711	ND	U	0.692	ND	UJ	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00185	ND	U	0.711	ND	U	0.692	ND	U	0.544	ND	U	0.00198	ND	U	0.00184	ND	U	0.00219	ND	U	5.95
	XYLENES	3.13	814	ND	U	0.00554	ND	U	2.13	ND	U	2.08	ND	U	1.63	0.00129	J	0.00594	ND	U	0.00552	ND	U	0.00656	**29.4**		17.8
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	25.8		0.64	76.3		0.7	14.8		0.65	16		0.65	28.6		0.63	5.14		0.66	5.02		0.67	11.4		0.71

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP036			DP037			DP037			DP037			DP037			DP037			DP037			DP038		
			SAMPLE NO	FFOR0201			FFOR0202			FFOR0203			FFOR0204			FFOR0205			FFOR0206			FFOR0207			FFOR0208		
			SAMPLE DATE	23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	406		42.6	245		20.8	7.75		4.56	4450	J	428	1100	J	90.7	2110		225	1560		216	10.6		4.17
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1110		480	ND	U	5.96	ND	U	6.03	5250	J	3470	681	J	468	3840		690	3060		493	ND	U	5.78
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.76	ND	UJ	17.5	ND	UJ	1.88	ND	UJ	8.97	ND	UJ	1.89	ND	UJ	1.86	ND	UJ	1.78	ND	UJ	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2-METHYLNAPHTHALENE	NE	NE	0.125	J	0.352	ND	U	3.49	ND	U	0.377	1.46	J	1.79	0.239	J	0.378	3.77		0.372	1.05		0.357	0.0543	J	0.34
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.704	ND	U	6.98	ND	U	0.753	ND	U	3.59	ND	U	0.756	ND	U	0.744	ND	U	0.714	ND	U	0.681
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.352	0.391	J	3.49	0.0284	J	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	ANTHRACENE	5,410	17,200	ND	U	0.352	1.54	J	3.49	0.0804	J	0.377	ND	U	1.79	ND	U	0.378	0.0379	J	0.372	0.0378	J	0.357	0.0208	J	0.34
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	**4.31**		3.49	0.268	J	0.377	0.155	J	1.79	0.0463	J	0.378	0.223	J	0.372	0.225	J	0.357	0.0649	J	0.34
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	**3.44**	J	3.49	**0.192**	J	0.377	**0.374**	J	1.79	0.0849	J	0.378	**0.314**	J	0.372	**0.404**		0.357	0.0558	J	0.34
	BENZO(B)FLUORANTHENE	5.31	1.48	0.155	J	0.352	**4.07**		3.49	0.299	J	0.377	0.668	J	1.79	0.164	J	0.378	0.63		0.372	0.776		0.357	0.0814	J	0.34
	BENZO(GHI)PERYLENE	NE	NE	0.044	J	0.352	1.49	J	3.49	0.0881	J	0.377	0.356	J	1.79	0.0681	J	0.378	0.182	J	0.372	0.216	J	0.357	0.0708	J	0.34
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0804	J	0.352	2.48	J	3.49	0.109	J	0.377	0.377	J	1.79	0.0929	J	0.378	0.212	J	0.372	0.219	J	0.357	0.0336	J	0.34
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	0.0265	J	0.34
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	CARBAZOLE	NE	NE	ND	U	0.352	0.343	J	3.49	0.0237	J	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	CHRYSENE	160	147	ND	U	0.352	5.68		3.49	0.317	J	0.377	0.228	J	1.79	0.0622	J	0.378	0.347	J	0.372	0.328	J	0.357	0.102	J	0.34
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	3.49	0.0418	J	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	DIBENZOFURAN	NE	NE	ND	U	0.352	0.165	J	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	FLUORANTHENE	2,430	2,290	0.334	J	0.352	8.23		3.49	0.464		0.377	0.167	J	1.79	0.0553	J	0.378	0.504		0.372	0.587		0.357	0.103	J	0.34
	FLUORENE	406	2,290	ND	U	0.352	0.343	J	3.49	0.0229	J	0.377	0.139	J	1.79	ND	U	0.378	0.205	J	0.372	0.112	J	0.357	ND	U	0.34
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0343	J	0.352	1.47	J	3.49	0.0889	J	0.377	0.285	J	1.79	0.0776	J	0.378	0.182	J	0.372	0.205	J	0.357	0.0483	J	0.34
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	**0.94**		0.372	ND	U	0.357	ND	U	0.34
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP036			DP037			DP037			DP037			DP037			DP037			DP037			DP038		
		SAMPLE NO		FFOR0201			FFOR0202			FFOR0203			FFOR0204			FFOR0205			FFOR0206			FFOR0207			FFOR0208		
		SAMPLE DATE		23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	17.5	ND	U	1.88	ND	U	8.97	ND	U	1.89	ND	U	1.86	ND	U	1.78	ND	U	1.7
	PHENANTHRENE	571	1,830	0.195	J	0.352	3.44	J	3.49	0.221	J	0.377	ND	U	1.79	0.0263	J	0.378	0.172	J	0.372	0.212	J	0.357	0.0425	J	0.34
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	3.49	ND	U	0.377	ND	U	1.79	ND	U	0.378	ND	U	0.372	ND	U	0.357	ND	U	0.34
	PYRENE	1,790	1,720	0.296	J	0.352	8.19		3.49	0.451		0.377	0.88	J	1.79	0.218	J	0.378	1.26		0.372	1.71		0.357	0.0944	J	0.34
	PYRIDINE	NE	NE	ND	UJ	0.352	ND	UJ	3.49	ND	UJ	0.377	ND	UJ	1.79	ND	UJ	0.378	ND	UJ	0.372	ND	UJ	0.357	ND	UJ	0.34
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1-DICHLOROETHENE	2.32	449	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,1-DICHLOROPROPENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2,4-TRIMETHYLBENZENE	NE	NE	4.88	J	5.17	0.0474		0.00778	ND	U	0.00373	12.9	J	26.1	11.1		4.28	71.2		4.2	66.8		5.37	0.000338	J	0.00237
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	5.17	ND	U	0.00778	ND	U	0.00373	ND	UJ	26.1	ND	UJ	4.28	ND	UJ	4.2	ND	UJ	5.37	ND	U	0.00237
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,3,5-TRIMETHYLBENZENE	NE	NE	2.47	J	5.17	0.0498		0.00778	ND	U	0.00373	10.8	J	26.1	5.74		4.28	28.3		4.2	26.6		5.37	ND	U	0.00237
	1,3-DICHLOROBENZENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,3-DICHLOROPROPANE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	1-CHLOROHEXANE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	2,2-DICHLOROPROPANE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	2-BUTANONE	25.5	37,100	ND	U	12.9	0.011	J	0.0194	0.00428	J	0.00932	ND	U	65.2	ND	U	10.7	ND	U	10.5	ND	U	13.4	0.00156	J	0.00593
	2-CHLOROTOLUENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	2-HEXANONE	NE	NE	ND	UJ	12.9	ND	U	0.0194	ND	U	0.00932	ND	UJ	65.2	ND	UJ	10.7	ND	UJ	10.5	ND	UJ	13.4	ND	U	0.00593
	2-PROPENAL	0.000146	0.404	ND	UJ	64.6	ND	U	0.0972	ND	U	0.0466	ND	UJ	326	ND	UJ	53.5	ND	UJ	52.5	ND	UJ	67.1	ND	U	0.0297
	2-PROPENENITRILE	0.0016969	4.55	ND	U	64.6	ND	U	0.0972	ND	U	0.0466	ND	U	326	ND	U	53.5	ND	U	52.5	ND	U	67.1	ND	U	0.0297
	4-CHLOROTOLUENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	12.9	ND	U	0.0194	ND	U	0.00932	ND	U	65.2	ND	U	10.7	ND	U	10.5	ND	U	13.4	ND	U	0.00593
	ACETONE	77.1	66,600	3.24	J	64.6	0.0403	J	0.0972	0.0245	J	0.0466	ND	UJ	326	ND	UJ	53.5	ND	UJ	52.5	5.7	J	67.1	0.00688	J	0.0297
	BENZENE	0.0345	15.4	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	0.000201	J	0.00237
	BROMOBENZENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	BROMOCHLOROMETHANE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	BROMOFORM	12.1	6,116	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	BROMOMETHANE	0.0385	16.5	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CARBON DISULFIDE	5.65	1,530	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CHLOROBENZENE	0.984	376	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CHLOROETHANE	107	29,800	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CHLOROFORM	0.00918	5.86	**1.44**	J	5.17	ND	U	0.00778	ND	U	0.00373	**3.59**	J	26.1	**0.591**	J	4.28	**0.622**	J	4.2	**0.751**	J	5.37	ND	U	0.00237
	CHLOROMETHANE	0.879	275	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	DIBROMOMETHANE	0.0342	51.6	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	ETHYLBENZENE	0.26	68.4	**1.81**	J	5.17	0.00414	J	0.00778	0.0016	J	0.00373	ND	U	26.1	ND	U	4.28	**20.6**		4.2	**28.1**		5.37	ND	U	0.00237
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	ISOPROPYLBENZENE	17.3	2,430	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	9.83		4.2	11.1		5.37	ND	U	0.00237
	M,P-XYLENES	NE	NE	3.58	J	10.3	0.0186		0.0156	ND	U	0.00746	ND	U	52.1	4.53	J	8.55	142		8.4	154		10.7	0.00055	J	0.00475
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	METHYLENE CHLORIDE	0.824	409	ND	U	12.9	ND	U	0.0194	ND	U	0.00932	ND	U	65.2	ND	U	10.7	ND	U	10.5	ND	U	13.4	ND	U	0.00593
	NAPHTHALENE	0.0713	43.0	**1.14**	J	5.17	0.0277		0.00778	ND	U	0.00373	**4.53**	J	26.1	**1.45**	J	4.28	**6.69**		4.2	**6.96**		5.37	ND	U	0.00237
	N-BUTYLBENZENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	4.42		4.2	3.31	J	5.37	ND	U	0.00237
	N-PROPYLBENZENE	NE	NE	1.16	J	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	14.3		4.2	15.4		5.37	ND	U	0.00237
	O-XYLENE	3.13	898	1.71	J	5.17	0.0103		0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	**44.7**		4.2	**55.9**		5.37	0.000194	J	0.00237

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP036			DP037			DP037			DP037			DP037			DP037			DP037			DP038		
		SAMPLE NO		FFOR0201			FFOR0202			FFOR0203			FFOR0204			FFOR0205			FFOR0206			FFOR0207			FFOR0208		
		SAMPLE DATE		23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	0.615	J	5.17	0.0074	J	0.00778	ND	U	0.00373	5.38	J	26.1	1.59	J	4.28	6.35		4.2	5.38		5.37	ND	U	0.00237
	SEC-BUTYLBENZENE	NE	NE	0.574	J	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	6.43		4.2	ND	U	5.37	ND	U	0.00237
	STYRENE	27.7	7,280	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TERT-BUTYLBENZENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TETRACHLOROETHENE	0.00861	7.02	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TOLUENE	25.3	5,270	ND	U	5.17	0.00273	J	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	2.29	J	4.2	4.77	J	5.37	ND	U	0.00237
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TRICHLOROETHENE	0.0211	8.77	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	VINYL ACETATE	1.52	2,560	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	VINYL CHLORIDE	0.00108	0.728	ND	U	5.17	ND	U	0.00778	ND	U	0.00373	ND	U	26.1	ND	U	4.28	ND	U	4.2	ND	U	5.37	ND	U	0.00237
	XYLENES	3.13	814	**5.29**	J	15.5	0.029		0.0233	ND	U	0.0112	ND	U	78.2	**4.53**	J	12.8	**187**		12.6	**210**		16.1	0.000744	J	0.00712
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.74		0.64	29.6		0.63	6.51		1.37	70	J	3.23	17.5	J	0.69	14.4		0.69	7.43		0.65	20.7		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP038			DP038			DP038			DP038			DP039			DP039			DP039			DP039		
			SAMPLE NO	FFOR0209			FFOR0210			FFOR0211			FFOR0212			FFOR0213			FFOR0214			FFOR0215			FFOR0216		
			SAMPLE DATE	23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.84		4.53	184		20.9	2940		234	1100		86.5	290		21.1	444		42.7	1830		215	2050		231
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.73	6.04		5.47	6490		548	3330		123	12.3		9.64	61.2	J	9.96	1310		644	2210		532
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.86	ND	UJ	1.76	ND	UJ	19.3	ND	UJ	1.76	ND	UJ	17.2	ND	UJ	1.74	ND	UJ	1.75	ND	UJ	1.91
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2-CHLOROPHENOL	2.31	391	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2-METHYLNAPHTHALENE	NE	NE	0.0108	J	0.372	ND	U	0.351	8.15		3.85	1.1		0.351	ND	U	3.43	0.0142	J	0.349	ND	U	0.35	1.17		0.382
	2-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	2-NITROPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.743	ND	U	0.703	ND	U	7.71	ND	U	0.702	ND	U	6.86	ND	U	0.697	ND	U	0.701	ND	U	0.764
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	0.118	J	0.35	ND	U	0.382
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	4-CHLOROANILINE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	ACENAPHTHENE	338	3,440	ND	U	0.372	ND	U	0.351	ND	U	3.85	0.149	J	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	ACENAPHTHYLENE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	ANTHRACENE	5,410	17,200	ND	U	0.372	ND	U	0.351	ND	U	3.85	0.058	J	0.351	ND	U	3.43	ND	U	0.349	0.0684	J	0.35	0.124	J	0.382
	BENZENAMINE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.372	ND	U	0.351	ND	U	3.85	0.341	J	0.351	ND	U	3.43	0.0279	J	0.349	0.168	J	0.35	0.359	J	0.382
	BENZO(A)PYRENE	0.52	0.148	0.0236	J	0.372	0.0284	J	0.351	**0.165**	J	3.85	**0.165**	J	0.351	ND	U	3.43	0.0269	J	0.349	0.0913	J	0.35	**0.155**	J	0.382
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.372	0.0555	J	0.351	ND	U	3.85	0.414		0.351	ND	U	3.43	0.0411	J	0.349	0.168	J	0.35	0.369	J	0.382
	BENZO(GHI)PERYLENE	NE	NE	0.0719	J	0.372	0.0367	J	0.351	0.148	J	3.85	0.0708	J	0.351	ND	U	3.43	0.0177	J	0.349	0.0335	J	0.35	0.103	J	0.382
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.372	0.0194	J	0.351	0.169	J	3.85	0.151	J	0.351	ND	U	3.43	ND	U	0.349	0.0855	J	0.35	0.209	J	0.382
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.372	ND	U	0.351	ND	U	3.85	0.588		0.351	ND	U	3.43	0.131	J	0.349	0.0296	J	0.35	ND	U	0.382
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	CARBAZOLE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	CHRYSENE	160	147	ND	U	0.372	ND	U	0.351	0.169	J	3.85	0.281	J	0.351	ND	U	3.43	0.0313	J	0.349	0.15	J	0.35	0.418		0.382
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	DIBENZOFURAN	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	0.225	J	0.35	0.361	J	0.382
	DIETHYL PHTHALATE	193	48,900	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	FLUORANTHENE	2,430	2,290	ND	U	0.372	ND	U	0.351	0.229	J	3.85	0.93		0.351	0.0864	J	3.43	0.0584	J	0.349	0.422		0.35	1.1		0.382
	FLUORENE	406	2,290	ND	U	0.372	ND	U	0.351	ND	U	3.85	0.151	J	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0405	J	0.372	ND	U	0.351	ND	U	3.85	0.0796	J	0.351	ND	U	3.43	ND	U	0.349	0.0421	J	0.35	0.0938	J	0.382
	ISOPHORONE	3.84	5,120	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	NAPHTHALENE	0.0713	43.0	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	NITROBENZENE	0.0125	53.5	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP038			DP038			DP038			DP038			DP039			DP039			DP039			DP039		
			SAMPLE NO	FFOR0209			FFOR0210			FFOR0211			FFOR0212			FFOR0213			FFOR0214			FFOR0215			FFOR0216		
			SAMPLE DATE	23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.76	ND	U	19.3	ND	U	1.76	ND	U	17.2	ND	U	1.74	ND	U	1.75	ND	U	1.91
	PHENANTHRENE	571	1,830	ND	U	0.372	ND	U	0.351	0.169	J	3.85	0.282	J	0.351	ND	U	3.43	0.0243	J	0.349	0.495		0.35	1.24		0.382
	PHENOL	99.5	18,300	ND	U	0.372	ND	U	0.351	ND	U	3.85	ND	U	0.351	ND	U	3.43	ND	U	0.349	ND	U	0.35	ND	U	0.382
	PYRENE	1,790	1,720	ND	U	0.372	0.0188	J	0.351	0.328	J	3.85	1.67		0.351	0.25	J	3.43	0.101	J	0.349	0.449		0.35	0.826		0.382
	PYRIDINE	NE	NE	ND	UJ	0.372	ND	UJ	0.351	ND	UJ	3.85	ND	UJ	0.351	ND	UJ	3.43	ND	UJ	0.349	ND	UJ	0.35	ND	UJ	0.382
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	109		6.87	39		11.8	ND	U	0.00172	ND	U	0.0978	1.6	J	2.08	16.9		2.48
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00191	ND	U	0.00217	ND	UJ	6.87	ND	UJ	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00191	0.000749	J	0.00217	41.3		6.87	15.6		11.8	ND	U	0.00172	0.159		0.0978	7.82		2.08	14.6		2.48
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	1-CHLOROHEXANE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	2-BUTANONE	25.5	37,100	ND	U	0.00479	0.00485	J	0.00542	ND	U	17.2	ND	U	29.5	0.00687		0.00431	ND	U	0.245	ND	U	5.2	ND	U	6.19
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	2-HEXANONE	NE	NE	ND	U	0.00479	ND	U	0.00542	ND	UJ	17.2	ND	UJ	29.5	ND	U	0.00431	ND	UJ	0.245	ND	UJ	5.2	ND	UJ	6.19
	2-PROPENAL	0.000146	0.404	ND	U	0.0239	ND	U	0.0271	ND	UJ	85.9	ND	UJ	148	ND	U	0.0215	ND	UJ	1.22	ND	UJ	26	ND	UJ	31
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0239	ND	U	0.0271	ND	U	85.9	ND	U	148	ND	U	0.0215	ND	U	1.22	ND	U	26	ND	U	31
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00479	ND	U	0.00542	ND	U	17.2	ND	U	29.5	ND	U	0.00431	ND	U	0.245	ND	U	5.2	ND	U	6.19
	ACETONE	77.1	66,600	0.00271	J	0.0239	0.0207	J	0.0271	ND	UJ	85.9	ND	UJ	148	0.0305		0.0215	ND	U	1.22	1.93	J	26	2.26	J	31
	BENZENE	0.0345	15.4	ND	U	0.00191	0.000711	J	0.00217	ND	U	6.87	ND	U	11.8	0.000347	J	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	BROMOBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	BROMOFORM	12.1	6,116	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	BROMOMETHANE	0.0385	16.5	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	UJ	0.0978	ND	U	2.08	ND	UJ	2.48
	CHLOROBENZENE	0.984	376	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CHLOROETHANE	107	29,800	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CHLOROFORM	0.00918	5.86	ND	U	0.00191	ND	U	0.00217	**0.823**	J	6.87	**3.31**	J	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CHLOROMETHANE	0.879	275	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	**1.14**	J	2.08	ND	U	2.48
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	ETHYLBENZENE	0.26	68.4	0.000553	J	0.00191	0.00114	J	0.00217	**34.6**		6.87	**18.9**		11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	**0.997**	J	2.48
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00191	ND	U	0.00217	15.8		6.87	6.91	J	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	M,P-XYLENES	NE	NE	ND	U	0.00383	ND	U	0.00434	194		13.7	84.2		23.6	ND	U	0.00345	ND	U	0.196	1.37	J	4.16	14.7		4.96
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00479	ND	U	0.00542	ND	U	17.2	ND	U	29.5	ND	U	0.00431	ND	U	0.245	ND	U	5.2	ND	U	6.19
	NAPHTHALENE	0.0713	43.0	ND	U	0.00191	ND	U	0.00217	**11.8**		6.87	**5.29**	J	11.8	ND	U	0.00172	ND	U	0.0978	**3.27**		2.08	**2.38**	J	2.48
	N-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	7.61		6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	N-PROPYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	22.3		6.87	9.48	J	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	O-XYLENE	3.13	898	ND	U	0.00191	0.00104	J	0.00217	**46.9**		6.87	**25.6**		11.8	ND	U	0.00172	ND	U	0.0978	2.67		2.08	**8.26**		2.48

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP038			DP038			DP038			DP038			DP039			DP039			DP039			DP039		
		SAMPLE NO		FFOR0209			FFOR0210			FFOR0211			FFOR0212			FFOR0213			FFOR0214			FFOR0215			FFOR0216		
		SAMPLE DATE		23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00217	9.52		6.87	ND	U	11.8	ND	U	0.00172	0.252		0.0978	5.57		2.08	4.48		2.48
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	10.3		6.87	4.24	J	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	STYRENE	27.7	7,280	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TOLUENE	25.3	5,270	ND	U	0.00191	0.0015	J	0.00217	ND	U	6.87	ND	U	11.8	0.00103	J	0.00172	ND	U	0.0978	ND	U	2.08	0.59	J	2.48
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	UJ	0.0978	ND	U	2.08	ND	UJ	2.48
	VINYL ACETATE	1.52	2,560	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00191	ND	U	0.00217	ND	U	6.87	ND	U	11.8	ND	U	0.00172	ND	U	0.0978	ND	U	2.08	ND	U	2.48
	XYLENES	3.13	814	ND	U	0.00574	ND	U	0.00651	**241**		20.6	**110**		35.4	0.00112	J	0.00517	ND	U	0.293	**4.04**	J	6.25	**23**		7.43
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	29.6		1.36	8.06		0.64	20.9		0.7	9.73		0.65	110		0.63	10.5		0.64	18.1	J	0.65	23.6		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP039			DP039			DP040			DP040			DP040			DP040			DP040			DP040		
			SAMPLE NO	FFOR0217			FFOR0218			FFOR0219			FFOR0220			FFOR0221			FFOR0222			FFOR0223			FFOR0224		
			SAMPLE DATE	23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1460		211	1340		213	13.2		4.13	16.9		4.11	384		44	3130		452	1030		227	2200		217
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2610		612	1810		91.7	2.01	J	6.55	1.56	J	5.73	220	J	25.7	1210		546	2140		576	3060	J	91.2
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,4-DINITROPHENOL	1.26	122	ND	UJ	17.4	ND	UJ	17.4	ND	UJ	1.7	ND	UJ	1.7	ND	UJ	1.79	ND	UJ	18.3	ND	UJ	18.7	ND	UJ	17.9
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2-CHLOROPHENOL	2.31	391	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2-METHYLNAPHTHALENE	NE	NE	3.36	J	3.48	3.55		3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	5.31		3.67	1.28	J	3.74	8		3.58
	2-METHYLPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	2-NITROANILINE	NE	NE	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	2-NITROPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	6.97	ND	U	6.97	ND	U	0.678	ND	U	0.68	ND	U	0.717	ND	U	7.33	ND	U	7.48	ND	U	7.16
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	3-NITROANILINE	NE	NE	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	4-CHLOROANILINE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	4-NITROANILINE	NE	NE	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	4-NITROPHENOL	NE	NE	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	ACENAPHTHENE	338	3,440	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	ACENAPHTHYLENE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	ANTHRACENE	5,410	17,200	0.142	J	3.48	0.148	J	3.49	0.0188	J	0.339	0.0174	J	0.34	0.0172	J	0.358	0.157	J	3.67	ND	U	3.74	0.203	J	3.58
	BENZENAMINE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	BENZO(A)ANTHRACENE	1.57	1.48	0.363	J	3.48	0.368	J	3.49	0.0783	J	0.339	0.0781	J	0.34	0.0435	J	0.358	0.346	J	3.67	0.363	J	3.74	0.56	J	3.58
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.48	0.131	J	3.49	0.0731	J	0.339	0.0783	J	0.34	0.0323	J	0.358	**0.2**	J	3.67	**0.179**	J	3.74	**0.362**	J	3.58
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.48	0.41	J	3.49	0.118	J	0.339	0.115	J	0.34	0.0472	J	0.358	ND	U	3.67	ND	U	3.74	0.458	J	3.58
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.48	ND	U	3.49	0.0624	J	0.339	0.0728	J	0.34	0.0245	J	0.358	ND	U	3.67	ND	U	3.74	0.126	J	3.58
	BENZO(K)FLUORANTHENE	52.0	14.8	0.214	J	3.48	ND	U	3.49	0.0337	J	0.339	0.025	J	0.34	0.019	J	0.358	ND	U	3.67	0.227	J	3.74	0.272	J	3.58
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.48	ND	U	3.49	ND	U	0.339	0.0207	J	0.34	0.0223	J	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	CARBAZOLE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	CHRYSENE	160	147	0.338	J	3.48	0.329	J	3.49	0.13	J	0.339	0.133	J	0.34	0.0537	J	0.358	0.469	J	3.67	0.486	J	3.74	0.661	J	3.58
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	DIBENZOFURAN	NE	NE	0.327	J	3.48	0.309	J	3.49	ND	U	0.339	ND	U	0.34	0.0542	J	0.358	0.322	J	3.67	0.191	J	3.74	0.306	J	3.58
	DIETHYL PHTHALATE	193	48,900	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	FLUORANTHENE	2,430	2,290	0.941	J	3.48	1.05	J	3.49	0.0865	J	0.339	0.106	J	0.34	0.0729	J	0.358	0.683	J	3.67	0.506	J	3.74	0.912	J	3.58
	FLUORENE	406	2,290	0.211	J	3.48	0.204	J	3.49	ND	U	0.339	ND	U	0.34	0.0563	J	0.358	0.251	J	3.67	ND	U	3.74	0.268	J	3.58
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.48	ND	U	3.49	0.0564	J	0.339	0.0507	J	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	ISOPHORONE	3.84	5,120	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	NAPHTHALENE	0.0713	43.0	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	**2.87**	J	3.58
	NITROBENZENE	0.0125	53.5	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP039			DP039			DP040			DP040			DP040			DP040			DP040			DP040		
			SAMPLE NO	FFOR0217			FFOR0218			FFOR0219			FFOR0220			FFOR0221			FFOR0222			FFOR0223			FFOR0224		
			SAMPLE DATE	23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	PENTACHLOROPHENOL	0.256	8.94	ND	U	17.4	ND	U	17.4	ND	U	1.7	ND	U	1.7	ND	U	1.79	ND	U	18.3	ND	U	18.7	ND	U	17.9
	PHENANTHRENE	571	1,830	0.961	J	3.48	0.96	J	3.49	0.0266	J	0.339	0.0477	J	0.34	0.0597	J	0.358	0.563	J	3.67	0.453	J	3.74	0.654	J	3.58
	PHENOL	99.5	18,300	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
	PYRENE	1,790	1,720	0.614	J	3.48	0.663	J	3.49	0.0798	J	0.339	0.103	J	0.34	0.0566	J	0.358	0.547	J	3.67	0.516	J	3.74	0.766	J	3.58
	PYRIDINE	NE	NE	ND	U	3.48	ND	U	3.49	ND	U	0.339	ND	U	0.34	ND	U	0.358	ND	U	3.67	ND	U	3.74	ND	U	3.58
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2,4-TRIMETHYLBENZENE	NE	NE	20.3		2.45	17.4		1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	2.35	J	4.24	27.6		1.68
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,3,5-TRIMETHYLBENZENE	NE	NE	12.4		2.45	10.6		1.83	ND	U	0.00207	ND	U	0.00208	1.95		1.53	6.69	J	10	12.7		4.24	21.9		1.68
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	1-CHLOROHEXANE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	2-BUTANONE	25.5	37,100	ND	U	6.12	ND	U	4.58	0.00278	J	0.00516	ND	U	0.00521	ND	U	3.83	ND	U	25.1	ND	U	10.6	ND	U	4.2
	2-CHLOROTOLUENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	2-HEXANONE	NE	NE	ND	UJ	6.12	ND	UJ	4.58	ND	U	0.00516	ND	U	0.00521	ND	UJ	3.83	ND	UJ	25.1	ND	UJ	10.6	ND	UJ	4.2
	2-PROPENAL	0.000146	0.404	ND	UJ	30.6	ND	UJ	22.9	ND	U	0.0258	ND	U	0.026	ND	UJ	19.2	ND	UJ	125	ND	UJ	53	ND	UJ	21
	2-PROPENENITRILE	0.0016969	4.55	ND	U	30.6	ND	U	22.9	ND	U	0.0258	ND	U	0.026	ND	U	19.2	ND	U	125	ND	U	53	ND	U	21
	4-CHLOROTOLUENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	6.12	ND	U	4.58	ND	U	0.00516	ND	U	0.00521	ND	U	3.83	ND	U	25.1	ND	U	10.6	ND	U	4.2
	ACETONE	77.1	66,600	3.4	J	30.6	1.4	J	22.9	0.0118	J	0.0258	0.00863	J	0.026	ND	U	19.2	ND	U	125	ND	UJ	53	2.41	J	21
	BENZENE	0.0345	15.4	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	BROMOBENZENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	BROMOFORM	12.1	6,116	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	BROMOMETHANE	0.0385	16.5	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	CARBON DISULFIDE	5.65	1,530	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	CARBON TETRACHLORIDE	0.0321	10.8	ND	UJ	2.45	ND	UJ	1.83	ND	U	0.00207	ND	U	0.00208	ND	UJ	1.53	ND	UJ	10	ND	U	4.24	ND	U	1.68
	CHLOROBENZENE	0.984	376	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	CHLOROETHANE	107	29,800	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	CHLOROFORM	0.00918	5.86	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	**0.336**	J	1.68
	CHLOROMETHANE	0.879	275	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	**2.21**	J	4.24	ND	U	1.68
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	ETHYLBENZENE	0.26	68.4	**2.83**		2.45	**1.85**		1.83	0.000573	J	0.00207	0.000512	J	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	ISOPROPYLBENZENE	17.3	2,430	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	2.21		1.68
	M,P-XYLENES	NE	NE	27.7		4.9	19.8		3.67	ND	U	0.00413	ND	U	0.00416	ND	U	3.07	ND	U	20.1	2.2	J	8.49	31.6		3.36
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	METHYLENE CHLORIDE	0.824	409	ND	U	6.12	ND	U	4.58	ND	U	0.00516	ND	U	0.00521	ND	U	3.83	ND	U	25.1	ND	U	10.6	ND	U	4.2
	NAPHTHALENE	0.0713	43.0	**2.68**		2.45	**2.32**		1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	**2.27**	J	10	**7.12**		4.24	**5.97**		1.68
	N-BUTYLBENZENE	NE	NE	4.52		2.45	3.67		1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	N-PROPYLBENZENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	O-XYLENE	3.13	898	**13.9**		2.45	**9.76**		1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	**3.93**	J	4.24	**16.5**		1.68

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		LOCATION CODE		DP039			DP039			DP040			DP040			DP040			DP040			DP040			DP040		
		SAMPLE NO		FFOR0217			FFOR0218			FFOR0219			FFOR0220			FFOR0221			FFOR0222			FFOR0223			FFOR0224		
		SAMPLE DATE		23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11			23-Jun-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	3.96		2.45	3.17		1.83	ND	U	0.00207	ND	U	0.00208	1.97		1.53	12.8		10	6.12		4.24	12.6		1.68
	SEC-BUTYLBENZENE	NE	NE	4.25		2.45	3.51		1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	4.31		1.68
	STYRENE	27.7	7,280	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TOLUENE	25.3	5,270	1.72	J	2.45	0.977	J	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	0.458	J	1.68
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	2.45	ND	UJ	1.83	ND	U	0.00207	ND	U	0.00208	ND	UJ	1.53	ND	UJ	10	ND	U	4.24	ND	U	1.68
	VINYL ACETATE	1.52	2,560	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.45	ND	U	1.83	ND	U	0.00207	ND	U	0.00208	ND	U	1.53	ND	U	10	ND	U	4.24	ND	U	1.68
	XYLENES	3.13	814	**41.6**		7.35	**29.6**		5.5	ND	U	0.0062	ND	U	0.00625	ND	U	4.6	ND	U	30.1	**6.13**	J	12.7	**48.2**		5.04
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	14.3		0.64	13.6		0.64	42		0.62	35.9		0.61	81.9		0.66	160		0.68	286		0.69	116		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP041			DP041			DP041			DP041			DP041			DP041			DP042			DP042		
			SAMPLE NO	FFOR0225			FFOR0226			FFOR0227			FFOR0228			FFOR0229			FFOR0230			FFOR0231			FFOR0232		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	5.47		4.14	9.44	J	4.39	17.2	J	4.3	270		44.8	785		93.3	398		44.3	74.1		8.32	2.37	J	4.23
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.08	J	5.8	ND	U	6.24	ND	U	5.54	427		116	2960		600	1480		576	ND	U	4.87	ND	U	5.45
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,4-DINITROPHENOL	1.26	122	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2-CHLOROPHENOL	2.31	391	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	0.319	J	0.372	1.87		0.385	3.56		0.363	ND	U	0.349	ND	U	0.347
	2-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	2-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	2-NITROPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.683	ND	U	0.712	ND	U	0.712	ND	U	0.745	ND	U	0.77	ND	U	0.725	ND	U	0.698	ND	U	0.694
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	3-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	4-CHLOROANILINE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	4-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	4-NITROPHENOL	NE	NE	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	ACENAPHTHENE	338	3,440	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	ACENAPHTHYLENE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	0.0301	J	0.349	ND	U	0.347
	ANTHRACENE	5,410	17,200	ND	U	0.341	0.021	J	0.356	0.0282	J	0.356	ND	U	0.372	ND	U	0.385	0.0137	J	0.363	0.0971	J	0.349	ND	U	0.347
	BENZENAMINE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.341	0.0701	J	0.356	0.0926	J	0.356	0.032	J	0.372	ND	U	0.385	0.032	J	0.363	ND	U	0.349	ND	U	0.347
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.341	0.0738	J	0.356	0.0888	J	0.356	0.0211	J	0.372	ND	U	0.385	0.0197	J	0.363	ND	U	0.349	ND	U	0.347
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.341	0.0879	J	0.356	0.115	J	0.356	ND	U	0.372	ND	U	0.385	0.0345	J	0.363	ND	U	0.349	ND	U	0.347
	BENZO(GHI)PERYLENE	NE	NE	0.015	J	0.341	0.0479	J	0.356	0.0598	J	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	0.0305	J	0.349	ND	U	0.347
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.341	0.0519	J	0.356	0.0466	J	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	0.029	J	0.363	0.021	J	0.349	ND	U	0.347
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	CARBAZOLE	NE	NE	ND	U	0.341	ND	U	0.356	0.0252	J	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	0.0368	J	0.349	ND	U	0.347
	CHRYSENE	160	147	0.016	J	0.341	0.154	J	0.356	0.15	J	0.356	0.0309	J	0.372	0.0248	J	0.385	0.0447	J	0.363	ND	U	0.349	ND	U	0.347
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.341	ND	U	0.356	0.0195	J	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	DIBENZOFURAN	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	0.0926	J	0.385	0.123	J	0.363	ND	U	0.349	ND	U	0.347
	DIETHYL PHTHALATE	193	48,900	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	FLUORANTHENE	2,430	2,290	0.0239	J	0.341	0.102	J	0.356	0.161	J	0.356	0.0476	J	0.372	0.0369	J	0.385	0.0637	J	0.363	0.0086	J	0.349	ND	U	0.347
	FLUORENE	406	2,290	ND	U	0.341	ND	U	0.356	ND	U	0.356	0.0435	J	0.372	0.0615	J	0.385	0.0766	J	0.363	ND	U	0.349	ND	U	0.347
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.341	0.0419	J	0.356	0.0486	J	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	ISOPHORONE	3.84	5,120	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	NAPHTHALENE	0.0713	43.0	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	**1.14**		0.363	ND	U	0.349	ND	U	0.347
	NITROBENZENE	0.0125	53.5	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP041			DP041			DP041			DP041			DP041			DP041			DP042			DP042		
			SAMPLE NO	FFOR0225			FFOR0226			FFOR0227			FFOR0228			FFOR0229			FFOR0230			FFOR0231			FFOR0232		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.71	ND	U	1.78	ND	U	1.78	ND	U	1.86	ND	U	1.92	ND	U	1.81	ND	U	1.75	ND	U	1.73
	PHENANTHRENE	571	1,830	0.0129	J	0.341	0.0541	J	0.356	0.0857	J	0.356	0.0413	J	0.372	0.0426	J	0.385	0.0659	J	0.363	ND	U	0.349	ND	U	0.347
	PHENOL	99.5	18,300	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
	PYRENE	1,790	1,720	0.0227	J	0.341	0.0979	J	0.356	0.131	J	0.356	0.0383	J	0.372	0.0338	J	0.385	0.0598	J	0.363	ND	U	0.349	ND	U	0.347
	PYRIDINE	NE	NE	ND	U	0.341	ND	U	0.356	ND	U	0.356	ND	U	0.372	ND	U	0.385	ND	U	0.363	ND	U	0.349	ND	U	0.347
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	UJ	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	2.77		1.18	23.6		7.03	28.9		1.53	ND	U	0.0018	ND	U	0.00197
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	4.09		1.18	25.1		7.03	14.5		1.53	0.000494	J	0.0018	ND	U	0.00197
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	1-CHLOROHEXANE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	2-BUTANONE	25.5	37,100	ND	U	0.00531	0.00393	J	0.00551	0.00552	J	0.00585	ND	U	2.94	7.21	J	17.6	1.08	J	3.82	0.00863		0.00449	0.0025	J	0.00492
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	2-HEXANONE	NE	NE	ND	U	0.00531	ND	U	0.00551	ND	U	0.00585	ND	U	2.94	ND	UJ	17.6	ND	UJ	3.82	ND	U	0.00449	ND	U	0.00492
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0266	ND	U	0.0275	ND	U	0.0292	ND	UJ	14.7	ND	UJ	87.9	ND	UJ	19.1	ND	UJ	0.0224	ND	U	0.0246
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0266	ND	U	0.0275	ND	U	0.0292	ND	U	14.7	ND	UJ	87.9	ND	UJ	19.1	ND	U	0.0224	ND	U	0.0246
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00531	ND	U	0.00551	ND	U	0.00585	ND	U	2.94	ND	UJ	17.6	26.4	J	3.82	ND	U	0.00449	ND	U	0.00492
	ACETONE	77.1	66,600	ND	U	0.0266	0.0188	J	0.0275	0.0323		0.0292	ND	U	14.7	22.2	J	87.9	1	J	19.1	0.0337		0.0224	0.0109	J	0.0246
	BENZENE	0.0345	15.4	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	BROMOBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	BROMOFORM	12.1	6,116	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	BROMOMETHANE	0.0385	16.5	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CHLOROBENZENE	0.984	376	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CHLOROETHANE	107	29,800	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CHLOROFORM	0.00918	5.86	0.00119	J	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CHLOROMETHANE	0.879	275	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	ETHYLBENZENE	0.26	68.4	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	2.73		1.53	ND	U	0.0018	ND	U	0.00197
	M,P-XYLENES	NE	NE	ND	U	0.00425	ND	U	0.00441	ND	U	0.00468	1.87	J	2.35	13.6	J	14.1	18		3.06	ND	U	0.00359	ND	U	0.00394
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00531	ND	U	0.00551	ND	U	0.00585	ND	U	2.94	ND	U	17.6	ND	U	3.82	ND	U	0.00449	ND	U	0.00492
	NAPHTHALENE	0.0713	43.0	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	**8.1**		7.03	**5.61**		1.53	ND	U	0.0018	ND	U	0.00197
	N-BUTYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	6.38		1.53	ND	U	0.0018	ND	U	0.00197
	N-PROPYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	4.9		1.53	ND	U	0.0018	ND	U	0.00197
	O-XYLENE	3.13	898	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	**8.91**		1.53	0.000564	J	0.0018	ND	U	0.00197

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP041			DP041			DP041			DP041			DP041			DP041			DP042			DP042		
			SAMPLE NO	FFOR0225			FFOR0226			FFOR0227			FFOR0228			FFOR0229			FFOR0230			FFOR0231			FFOR0232		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	12.2		7.03	5.13		1.53	ND	U	0.0018	ND	U	0.00197
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	8.47		7.03	4.24		1.53	ND	U	0.0018	ND	U	0.00197
	STYRENE	27.7	7,280	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TOLUENE	25.3	5,270	ND	U	0.00212	0.000693	J	0.0022	0.000802	J	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	0.000709	J	0.0018	ND	U	0.00197
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	VINYL ACETATE	1.52	2,560	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	UJ	7.03	ND	UJ	1.53	ND	U	0.0018	ND	U	0.00197
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00212	ND	U	0.0022	ND	U	0.00234	ND	U	1.18	ND	U	7.03	ND	U	1.53	ND	U	0.0018	ND	U	0.00197
	XYLENES	3.13	814	ND	U	0.00637	ND	U	0.00661	ND	U	0.00702	1.87	J	3.53	**13.6**	J	21.1	**26.9**		4.58	ND	U	0.00539	ND	U	0.0059
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.44		0.63	45.1		0.66	48.4		0.66	18.4	J	0.68	243		0.7	235		0.66	11.7		0.63	6.87		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP042			DP042			DP042			DP043			DP043			DP043			DP043			DP043		
			SAMPLE NO	FFOR0233			FFOR0234			FFOR0235			FFOR0236			FFOR0237			FFOR0238			FFOR0239			FFOR0240		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.26		4.2	120		9.26	96.2		8.74	10.9		4.06	1.82	J	4.42	34.6		4.4	35.7		4.29	314		41.2
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.34	17.8		6.88	107	J	5.46	0.841	J	5.61	ND	U	5.6	ND	U	5.71	ND	U	6.35	26.4	J	14.1
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	0.0176	J	0.387	0.11	J	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.774	ND	U	0.721	ND	U	0.681	ND	U	0.722	ND	U	0.732	ND	U	0.719	ND	U	0.68
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	0.129	J	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	0.0172	J	0.34
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	0.0154	J	0.366	0.0159	J	0.36	ND	U	0.34
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	0.0229	J	0.366	0.0216	J	0.36	ND	U	0.34
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	0.101	J	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	0.448		0.34
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.387	ND	U	0.361	0.014	J	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	0.278	J	0.387	0.15	J	0.361	ND	U	0.34	ND	U	0.361	0.589		0.366	0.706		0.36	1.48		0.34
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	0.0376	J	0.387	0.0123	J	0.361	0.0211	J	0.34	ND	U	0.361	1.27		0.366	1.1		0.36	0.329	J	0.34
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	0.137	J	0.387	0.0259	J	0.361	ND	U	0.34	ND	U	0.361	0.0992	J	0.366	0.206	J	0.36	0.434		0.34
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	CHRYSENE	160	147	ND	U	0.353	0.224	J	0.387	0.224	J	0.361	0.019	J	0.34	ND	U	0.361	0.076	J	0.366	0.0598	J	0.36	0.512		0.34
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.387	0.0155	J	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	DIBENZOFURAN	NE	NE	ND	U	0.353	0.0725	J	0.387	0.134	J	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	0.0265	J	0.34
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	FLUORANTHENE	2,430	2,290	0.00992	J	0.353	1.29		0.387	1.14		0.361	0.0301	J	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	1.68		0.34
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	0.0159	J	0.34
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	0.0457	J	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	1.3		0.366	1.19		0.36	0.405		0.34
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34

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			LOCATION CODE	DP042			DP042			DP042			DP043			DP043			DP043			DP043			DP043		
			SAMPLE NO	FFOR0233			FFOR0234			FFOR0235			FFOR0236			FFOR0237			FFOR0238			FFOR0239			FFOR0240		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.94	ND	U	1.8	ND	U	1.7	ND	U	1.81	ND	U	1.83	ND	U	1.8	ND	U	1.7
	PHENANTHRENE	571	1,830	ND	U	0.353	0.979		0.387	1.23		0.361	0.0169	J	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	0.658		0.34
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
	PYRENE	1,790	1,720	ND	U	0.353	0.806		0.387	0.139	J	0.361	0.024	J	0.34	ND	U	0.361	0.0466	J	0.366	0.0347	J	0.36	3.98		0.34
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.387	ND	U	0.361	ND	U	0.34	ND	U	0.361	ND	U	0.366	ND	U	0.36	ND	U	0.34
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00235	0.372		0.267	0.44		0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	0.000228	J	0.00213	ND	U	0.15
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00235	0.392		0.267	0.388		0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	0.000124	J	0.00213	0.218		0.15
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	1-CHLOROHEXANE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	2-BUTANONE	25.5	37,100	0.00173	J	0.00589	0.264	J	0.668	0.628		0.391	0.00356	J	0.00476	ND	U	0.00559	0.00551	J	0.00569	ND	U	0.00533	ND	U	0.375
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	2-HEXANONE	NE	NE	ND	U	0.00589	ND	UJ	0.668	ND	UJ	0.391	ND	U	0.00476	ND	U	0.00559	ND	U	0.00569	ND	U	0.00533	ND	UJ	0.375
	2-PROPENAL	0.000146	0.404	ND	U	0.0294	ND	UJ	3.34	ND	UJ	1.96	ND	U	0.0238	ND	U	0.0279	ND	U	0.0285	ND	U	0.0267	ND	UJ	1.88
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0294	ND	UJ	3.34	ND	UJ	1.96	ND	U	0.0238	ND	U	0.0279	ND	U	0.0285	ND	U	0.0267	ND	UJ	1.88
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00589	ND	UJ	0.668	ND	UJ	0.391	ND	U	0.00476	ND	U	0.00559	ND	U	0.00569	ND	U	0.00533	ND	UJ	0.375
	ACETONE	77.1	66,600	0.00643	J	0.0294	0.285	J	3.34	2.47	J	1.96	0.0203	J	0.0238	0.00484	J	0.0279	0.0274	J	0.0285	ND	U	0.0267	0.162	J	1.88
	BENZENE	0.0345	15.4	0.000405	J	0.00235	ND	U	0.267	ND	U	0.157	0.000298	J	0.0019	ND	U	0.00223	0.00168	J	0.00228	0.00042	J	0.00213	ND	U	0.15
	BROMOBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	BROMOFORM	12.1	6,116	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	BROMOMETHANE	0.0385	16.5	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CHLOROBENZENE	0.984	376	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CHLOROETHANE	107	29,800	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CHLOROFORM	0.00918	5.86	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CHLOROMETHANE	0.879	275	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	ETHYLBENZENE	0.26	68.4	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	M,P-XYLENES	NE	NE	ND	U	0.00471	0.487	J	0.534	0.442		0.313	ND	U	0.00381	ND	U	0.00447	ND	U	0.00455	0.000379	J	0.00426	ND	U	0.3
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00589	ND	U	0.668	ND	U	0.391	ND	U	0.00476	ND	U	0.00559	ND	U	0.00569	ND	U	0.00533	ND	U	0.375
	NAPHTHALENE	0.0713	43.0	ND	U	0.00235	**0.251**	J	0.267	**0.456**		0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	**0.118**	J	0.15
	N-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	N-PROPYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	O-XYLENE	3.13	898	ND	U	0.00235	0.427		0.267	0.376		0.157	0.000301	J	0.0019	ND	U	0.00223	0.000548	J	0.00228	ND	U	0.00213	ND	U	0.15

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP042			DP042			DP042			DP043			DP043			DP043			DP043			DP043		
			SAMPLE NO	FFOR0233			FFOR0234			FFOR0235			FFOR0236			FFOR0237			FFOR0238			FFOR0239			FFOR0240		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.267	0.261		0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	STYRENE	27.7	7,280	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TOLUENE	25.3	5,270	0.000811	J	0.00235	ND	U	0.267	ND	U	0.157	0.00112	J	0.0019	ND	U	0.00223	0.00217	J	0.00228	ND	U	0.00213	ND	U	0.15
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	VINYL ACETATE	1.52	2,560	ND	U	0.00235	ND	UJ	0.267	ND	UJ	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	UJ	0.15
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00235	ND	U	0.267	ND	U	0.157	ND	U	0.0019	ND	U	0.00223	ND	U	0.00228	ND	U	0.00213	ND	U	0.15
	XYLENES	3.13	814	ND	U	0.00706	0.914		0.801	0.817		0.47	ND	U	0.00571	ND	U	0.0067	ND	U	0.00683	0.000498	J	0.0064	ND	U	0.45
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.49		0.64	9.37		0.7	5.33		0.66	37.6		0.62	4.31		0.67	7.38		0.67	6.42		0.65	14.1		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP043			DP044			DP044			DP044			DP044			DP044			DP045			DP045		
			SAMPLE NO	FFOR0241			FFOR0242			FFOR0243			FFOR0244			FFOR0245			FFOR0246			FFOR0247			FFOR0248		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	236		21.2	4.53		4.19	7.4		4.25	ND	U	4.55	ND	U	4.71	37.5		4.27	17		4.24	ND	U	4.25
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	177		62	ND	U	5.51	1.38	J	5.78	ND	U	7.15	ND	U	5.84	15.9		5.48	1.91	J	6.18	ND	U	6.15
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	0.297	J	0.355	ND	U	0.34	ND	U	0.356	0.371	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	0.0256	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.71	ND	U	0.68	ND	U	0.712	ND	U	0.751	ND	U	0.789	ND	U	0.717	ND	U	0.692	ND	U	0.701
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	ACENAPHTHENE	338	3,440	0.0249	J	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.34	0.0469	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0138	J	0.351
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	0.037	J	0.34	0.0505	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0689	J	0.351
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.355	0.0377	J	0.34	0.139	J	0.356	0.0197	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0632	J	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	0.21	J	0.355	0.0466	J	0.34	0.848		0.356	0.0384	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0718	J	0.351
	BENZO(GHI)PERYLENE	NE	NE	0.0203	J	0.355	0.06	J	0.34	2.95		0.356	0.414		0.376	ND	U	0.395	ND	U	0.358	0.0244	J	0.346	0.0356	J	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0676	J	0.355	0.0266	J	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0444	J	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.34	0.0217	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	CHRYSENE	160	147	0.262	J	0.355	0.0484	J	0.34	0.0636	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0959	J	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0168	J	0.351
	DIBENZOFURAN	NE	NE	0.161	J	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	FLUORANTHENE	2,430	2,290	1.52		0.355	0.0831	J	0.34	0.0753	J	0.356	ND	U	0.376	ND	U	0.395	0.013	J	0.358	0.00775	J	0.346	0.0795	J	0.351
	FLUORENE	406	2,290	0.0171	J	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	0.0445	J	0.34	**2.79**		0.356	0.233	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0346	J	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.34	ND	U	0.356	0.0607	J	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP043			DP044			DP044			DP044			DP044			DP044			DP045			DP045		
			SAMPLE NO	FFOR0241			FFOR0242			FFOR0243			FFOR0244			FFOR0245			FFOR0246			FFOR0247			FFOR0248		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.7	ND	U	1.78	ND	U	1.88	ND	U	1.97	ND	U	1.79	ND	U	1.73	ND	U	1.75
	PHENANTHRENE	571	1,830	1.29		0.355	0.0412	J	0.34	0.0392	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0318	J	0.351
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	ND	U	0.351
	PYRENE	1,790	1,720	0.411		0.355	0.0685	J	0.34	0.113	J	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	U	0.346	0.0867	J	0.351
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.34	ND	U	0.356	ND	U	0.376	ND	U	0.395	ND	U	0.358	ND	UJ	0.346	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.436		0.0952	ND	U	0.00222	ND	U	0.00245	0.000682	J	0.00228	0.00071	J	0.00205	0.000262	J	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.386		0.0952	ND	U	0.00222	ND	U	0.00245	0.000355	J	0.00228	0.000378	J	0.00205	0.000146	J	0.00176	ND	U	0.00261	ND	U	0.00234
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	1-CHLOROHEXANE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	2-BUTANONE	25.5	37,100	0.312		0.238	0.00179	J	0.00556	0.00178	J	0.00613	ND	U	0.0057	0.00149	J	0.00512	0.0139		0.00439	0.0127		0.00652	0.00367	J	0.00584
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	2-HEXANONE	NE	NE	ND	UJ	0.238	ND	U	0.00556	ND	U	0.00613	ND	U	0.0057	ND	U	0.00512	ND	U	0.00439	ND	U	0.00652	ND	U	0.00584
	2-PROPENAL	0.000146	0.404	ND	UJ	1.19	ND	U	0.0278	ND	UJ	0.0307	ND	UJ	0.0285	ND	UJ	0.0256	ND	UJ	0.022	ND	U	0.0326	ND	UJ	0.0292
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	1.19	ND	U	0.0278	ND	UJ	0.0307	ND	UJ	0.0285	ND	UJ	0.0256	ND	UJ	0.022	ND	U	0.0326	ND	UJ	0.0292
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	4-METHYL-2-PENTANONE	NE	5,820	ND	UJ	0.238	ND	U	0.00556	ND	U	0.00613	ND	U	0.0057	ND	U	0.00512	ND	U	0.00439	ND	U	0.00652	ND	U	0.00584
	ACETONE	77.1	66,600	1.77	J	1.19	0.0126	J	0.0278	0.0105	J	0.0307	ND	U	0.0285	0.00158	J	0.0256	0.0458		0.022	0.0731	J	0.0326	0.0181	J	0.0292
	BENZENE	0.0345	15.4	ND	U	0.0952	ND	U	0.00222	0.000193	J	0.00245	0.00172	J	0.00228	0.00181	J	0.00205	0.000225	J	0.00176	0.000556	J	0.00261	ND	U	0.00234
	BROMOBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	BROMOFORM	12.1	6,116	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	BROMOMETHANE	0.0385	16.5	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CHLOROBENZENE	0.984	376	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CHLOROETHANE	107	29,800	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CHLOROFORM	0.00918	5.86	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CHLOROMETHANE	0.879	275	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	ETHYLBENZENE	0.26	68.4	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	0.00031	J	0.00228	0.000298	J	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	M,P-XYLENES	NE	NE	0.375		0.19	ND	U	0.00445	ND	U	0.00491	0.00153	J	0.00456	0.00149	J	0.0041	0.000462	J	0.00352	ND	U	0.00522	ND	U	0.00468
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	METHYLENE CHLORIDE	0.824	409	ND	U	0.238	ND	U	0.00556	ND	U	0.00613	ND	U	0.0057	ND	U	0.00512	ND	U	0.00439	ND	U	0.00652	ND	U	0.00584
	NAPHTHALENE	0.0713	43.0	**0.625**		0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	N-BUTYLBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	N-PROPYLBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	O-XYLENE	3.13	898	0.31		0.0952	ND	U	0.00222	ND	U	0.00245	0.00041	J	0.00228	0.000428	J	0.00205	0.000165	J	0.00176	ND	U	0.00261	ND	U	0.00234

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP043			DP044			DP044			DP044			DP044			DP044			DP045			DP045		
		SAMPLE NO		FFOR0241			FFOR0242			FFOR0243			FFOR0244			FFOR0245			FFOR0246			FFOR0247			FFOR0248		
		SAMPLE DATE		24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	0.185		0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	SEC-BUTYLBENZENE	NE	NE	0.126		0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	STYRENE	27.7	7,280	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TOLUENE	25.3	5,270	ND	U	0.0952	ND	U	0.00222	0.00042	J	0.00245	0.00242		0.00228	0.00242		0.00205	0.000391	J	0.00176	0.000852	J	0.00261	ND	U	0.00234
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	VINYL ACETATE	1.52	2,560	ND	UJ	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0952	ND	U	0.00222	ND	U	0.00245	ND	U	0.00228	ND	U	0.00205	ND	U	0.00176	ND	U	0.00261	ND	U	0.00234
	XYLENES	3.13	814	0.683		0.286	ND	U	0.00667	ND	U	0.00736	0.00194	J	0.00684	0.00193	J	0.00614	0.000627	J	0.00527	ND	U	0.00782	ND	U	0.00701
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.96		0.64	9.84		0.63	14.6		0.65	24		0.68	26.5		0.72	8.16		0.65	8.87		0.64	8.64		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP045			DP045			DP045			DP045			DP046			DP046			DP046			DP046		
		SAMPLE NO		FFOR0249			FFOR0250			FFOR0251			FFOR0252			FFOR0253			FFOR0254			FFOR0255			FFOR0256		
		SAMPLE DATE		24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.33	ND	U	4.93	ND	U	4.39	ND	U	4.39	27.5		4.11	5.7		4.12	2.22	J	4.4	2.12	J	4.71
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.07	ND	U	6.04	ND	U	6.04	ND	U	7.31	0.858	J	4.91	ND	U	5.74	ND	U	5.74	ND	U	7.05
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.805	ND	U	0.713	ND	U	0.717	ND	U	0.69	ND	U	0.675	ND	U	0.723	ND	U	0.77
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE			DP045			DP045			DP045			DP045			DP046			DP046			DP046			DP046		
			SAMPLE NO			FFOR0249			FFOR0250			FFOR0251			FFOR0252			FFOR0253			FFOR0254			FFOR0255			FFOR0256		
			SAMPLE DATE			24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE			REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	2.01	ND	U	1.78	ND	U	1.79	ND	U	1.73	ND	U	1.69	ND	U	1.81	ND	U	1.93		
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.402	ND	U	0.356	ND	U	0.359	ND	U	0.345	ND	U	0.338	ND	U	0.361	ND	U	0.385		
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000974	J	0.00288	0.00105	J	0.00235	ND	U	0.00287	ND	U	0.00274	0.000236	J	0.0023	ND	U	0.00377	0.000681	J	0.00218	0.00219	J	0.00265		
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000515	J	0.00288	0.000592	J	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	0.000363	J	0.00218	0.00136	J	0.00265		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	1-CHLOROHEXANE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	UJ	0.0023	ND	UJ	0.00377	ND	U	0.00218	ND	U	0.00265		
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	2-BUTANONE	25.5	37,100	0.00349	J	0.00721	0.00177	J	0.00589	0.00442	J	0.00716	0.0035	J	0.00684	0.0112		0.00575	0.00121	J	0.00943	0.00278	J	0.00544	0.00625	J	0.00662		
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	2-HEXANONE	NE	NE	ND	U	0.00721	ND	U	0.00589	ND	U	0.00716	ND	U	0.00684	ND	U	0.00575	ND	U	0.00943	ND	U	0.00544	ND	U	0.00662		
	2-PROPENAL	0.000146	0.404	ND	UJ	0.036	ND	UJ	0.0294	ND	UJ	0.0358	ND	UJ	0.0342	ND	UJ	0.0287	ND	UJ	0.0471	ND	U	0.0272	ND	U	0.0331		
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.036	ND	UJ	0.0294	ND	UJ	0.0358	ND	UJ	0.0342	ND	UJ	0.0287	ND	UJ	0.0471	ND	U	0.0272	ND	U	0.0331		
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00721	ND	U	0.00589	ND	U	0.00716	ND	U	0.00684	ND	U	0.00575	ND	U	0.00943	ND	U	0.00544	ND	U	0.00662		
	ACETONE	77.1	66,600	0.0215	J	0.036	0.00558	J	0.0294	0.0154	J	0.0358	0.0115	J	0.0342	0.0788		0.0287	0.0375	J	0.0471	0.023	J	0.0272	0.0275	J	0.0331		
	BENZENE	0.0345	15.4	0.00273	J	0.00288	0.00287		0.00235	0.000356	J	0.00287	0.000213	J	0.00274	0.000563	J	0.0023	ND	U	0.00377	0.00177	J	0.00218	0.00622		0.00265		
	BROMOBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	BROMOFORM	12.1	6,116	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	BROMOMETHANE	0.0385	16.5	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	UJ	0.00218	ND	UJ	0.00265		
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	0.00263	J	0.00265		
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CHLOROBENZENE	0.984	376	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CHLOROETHANE	107	29,800	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CHLOROFORM	0.00918	5.86	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CHLOROMETHANE	0.879	275	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	ETHYLBENZENE	0.26	68.4	0.000522	J	0.00288	0.000528	J	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	0.000426	J	0.00218	0.00131	J	0.00265		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	M,P-XYLENES	NE	NE	0.00254	J	0.00577	0.00241	J	0.00471	ND	U	0.00573	ND	U	0.00547	0.000644	J	0.0046	ND	U	0.00754	0.00168	J	0.00436	0.00553		0.0053		
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00721	ND	U	0.00589	ND	U	0.00716	ND	U	0.00684	ND	U	0.00575	ND	U	0.00943	ND	U	0.00544	ND	U	0.00662		
	NAPHTHALENE	0.0713	43.0	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	N-BUTYLBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	N-PROPYLBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265		
	O-XYLENE	3.13	898	0.000715	J	0.00288	0.000573	J	0.00235	ND	U	0.00287	ND	U	0.00274	0.000212	J	0.0023	ND	U	0.00377	0.000419	J	0.00218	0.0014	J	0.00265		

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP045			DP045			DP045			DP045			DP046			DP046			DP046			DP046		
			SAMPLE NO	FFOR0249			FFOR0250			FFOR0251			FFOR0252			FFOR0253			FFOR0254			FFOR0255			FFOR0256		
			SAMPLE DATE	24-Jun-11			24-Jun-11			24-Jun-11			24-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	STYRENE	27.7	7,280	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TOLUENE	25.3	5,270	0.00406		0.00288	0.00361		0.00235	0.000615	J	0.00287	ND	U	0.00274	0.00204	J	0.0023	ND	U	0.00377	0.00275		0.00218	0.00926		0.00265
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	VINYL ACETATE	1.52	2,560	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	UJ	0.0023	ND	UJ	0.00377	ND	UJ	0.00218	ND	UJ	0.00265
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00288	ND	U	0.00235	ND	U	0.00287	ND	U	0.00274	ND	U	0.0023	ND	U	0.00377	ND	U	0.00218	ND	U	0.00265
	XYLENES	3.13	814	0.00326	J	0.00865	0.00298	J	0.00706	ND	U	0.0086	ND	U	0.00821	0.000857	J	0.0069	ND	U	0.0113	0.0021	J	0.00653	0.00693	J	0.00794
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.22		0.66	10.7		0.74	5.75		0.66	4.68		0.65	25.1		0.62	12.3		0.62	7.63		0.66	10.7		0.71

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP046			DP047			DP047			DP047			DP047			DP047			DP047			DP048		
			SAMPLE NO	FFOR0257			FFOR0258			FFOR0259			FFOR0260			FFOR0261			FFOR0262			FFOR0263			FFOR0264		
			SAMPLE DATE	25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.36	5.39	J	8.28	2.44	J	4.18	ND	U	4.51	1.72	J	4.23	ND	U	4.76	ND	U	4.28	16.8		4.18
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2.88	J	4.6	1.22	J	8.02	ND	U	5.93	ND	U	6.45	ND	U	7.78	ND	U	5.79	ND	U	5.28	ND	U	5.53
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.692	ND	U	0.693	ND	U	0.751	ND	U	0.703	ND	U	0.786	ND	U	0.705	ND	U	0.687
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0253	J	0.343
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0476	J	0.343
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0812	J	0.343
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0659	J	0.343
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0906	J	0.343
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0886	J	0.343
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.034	J	0.343
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0303	J	0.343
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0867	J	0.343
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.016	J	0.343
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	FLUORANTHENE	2,430	2,290	ND	U	0.36	0.00796	J	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.201	J	0.343
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.0175	J	0.343
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.065	J	0.343
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP046			DP047			DP047			DP047			DP047			DP047			DP047			DP048		
			SAMPLE NO	FFOR0257			FFOR0258			FFOR0259			FFOR0260			FFOR0261			FFOR0262			FFOR0263			FFOR0264		
			SAMPLE DATE	25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.73	ND	U	1.73	ND	U	1.88	ND	U	1.76	ND	U	1.96	ND	U	1.76	ND	U	1.72
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.165	J	0.343
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	ND	U	0.343
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	U	0.353	0.195	J	0.343
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.346	ND	U	0.346	ND	U	0.376	ND	U	0.351	ND	U	0.393	ND	UJ	0.353	ND	U	0.343
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	0.00018	J	0.00204	0.000206	J	0.00229	0.000586	J	0.00325	0.00247	J	0.00248	ND	U	0.00186	0.000188	J	0.00226
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	0.00027	J	0.00325	0.00137	J	0.00248	ND	U	0.00186	ND	U	0.00226
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	1-CHLOROHEXANE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	UJ	0.00186	ND	UJ	0.00226
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	2-BUTANONE	25.5	37,100	0.00521	J	0.00622	0.00357	J	0.018	0.00457	J	0.0051	ND	U	0.00574	ND	U	0.00811	ND	U	0.00621	0.00385	J	0.00464	0.00673		0.00565
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	2-HEXANONE	NE	NE	ND	U	0.00622	ND	U	0.018	ND	U	0.0051	ND	U	0.00574	ND	U	0.00811	ND	U	0.00621	ND	U	0.00464	ND	U	0.00565
	2-PROPENAL	0.000146	0.404	ND	U	0.0311	ND	U	0.0901	ND	U	0.0255	ND	U	0.0287	ND	U	0.0406	ND	U	0.031	ND	UJ	0.0232	ND	UJ	0.0283
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0311	ND	U	0.0901	ND	U	0.0255	ND	U	0.0287	ND	U	0.0406	ND	U	0.031	ND	UJ	0.0232	ND	UJ	0.0283
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00622	ND	U	0.018	ND	U	0.0051	ND	U	0.00574	ND	U	0.00811	ND	U	0.00621	ND	U	0.00464	ND	U	0.00565
	ACETONE	77.1	66,600	0.028	J	0.0311	0.053	J	0.0901	0.0392		0.0255	0.0109	J	0.0287	0.0234	J	0.0406	0.0139	J	0.031	0.0109	J	0.0232	0.0575		0.0283
	BENZENE	0.0345	15.4	0.000254	J	0.00249	ND	U	0.00721	0.000272	J	0.00204	0.000324	J	0.00229	0.0011	J	0.00325	0.0065		0.00248	0.000213	J	0.00186	0.000518	J	0.00226
	BROMOBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	BROMOFORM	12.1	6,116	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00249	ND	UJ	0.00721	ND	UJ	0.00204	ND	UJ	0.00229	ND	UJ	0.00325	ND	UJ	0.00248	ND	U	0.00186	ND	U	0.00226
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	0.00236	J	0.00248	ND	U	0.00186	ND	U	0.00226
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CHLOROBENZENE	0.984	376	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CHLOROETHANE	107	29,800	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CHLOROFORM	0.00918	5.86	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CHLOROMETHANE	0.879	275	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	ETHYLBENZENE	0.26	68.4	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	0.00137	J	0.00248	ND	U	0.00186	ND	U	0.00226
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	M,P-XYLENES	NE	NE	ND	U	0.00498	ND	U	0.0144	ND	U	0.00408	ND	U	0.00459	0.00127	J	0.00649	0.00601		0.00497	ND	U	0.00372	0.000488	J	0.00452
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00622	ND	U	0.018	ND	U	0.0051	ND	U	0.00574	ND	U	0.00811	ND	U	0.00621	ND	U	0.00464	ND	U	0.00565
	NAPHTHALENE	0.0713	43.0	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	N-BUTYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	N-PROPYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	O-XYLENE	3.13	898	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	0.000378	J	0.00325	0.00155	J	0.00248	ND	U	0.00186	0.000208	J	0.00226

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP046			DP047			DP047			DP047			DP047			DP047			DP047			DP047			DP048		
		SAMPLE NO		FFOR0257			FFOR0258			FFOR0259			FFOR0260			FFOR0261			FFOR0262			FFOR0263			FFOR0264		
		SAMPLE DATE		25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	STYRENE	27.7	7,280	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TOLUENE	25.3	5,270	0.000671	J	0.00249	0.000999	J	0.00721	0.000997	J	0.00204	0.000817	J	0.00229	0.00219	J	0.00325	0.00939		0.00248	0.000515	J	0.00186	0.00187	J	0.00226
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00249	ND	UJ	0.00721	ND	UJ	0.00204	ND	UJ	0.00229	ND	UJ	0.00325	ND	UJ	0.00248	ND	UJ	0.00186	ND	UJ	0.00226
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00249	ND	U	0.00721	ND	U	0.00204	ND	U	0.00229	ND	U	0.00325	ND	U	0.00248	ND	U	0.00186	ND	U	0.00226
	XYLENES	3.13	814	ND	U	0.00747	ND	U	0.0216	0.000462	J	0.00613	ND	U	0.00688	0.00164	J	0.00974	0.00755		0.00745	ND	U	0.00557	0.000696	J	0.00678
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.75		0.65	4.82		0.63	3.92		0.64	5.57		0.68	3.61		0.64	10.1		0.72	4.5		0.65	22.7		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP048			DP048			DP048			DP048			DP049			DP049			DP049			DP049		
		SAMPLE NO		FFOR0265			FFOR0266			FFOR0267			FFOR0268			FFOR0269			FFOR0270			FFOR0271			FFOR0272		
		SAMPLE DATE		25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	8.11		4.12	2.2	J	4.67	ND	U	4.62	ND	U	4.33	12.6		4.15	ND	U	4.46	ND	U	4.43	ND	U	4.79
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.2	ND	U	5.91	ND	U	6.39	ND	U	7.7	ND	U	8.11	ND	U	5.42	ND	U	6.01	ND	U	6.22
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,4-DINITROPHENOL	1.26	122	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	UJ	1.83	ND	U	1.96
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2-CHLOROPHENOL	2.31	391	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	2-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	2-NITROPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.68	ND	U	0.781	ND	U	0.762	ND	U	0.715	ND	U	0.683	ND	U	0.729	ND	U	0.731	ND	U	0.784
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	3-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	4-CHLOROANILINE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	4-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	4-NITROPHENOL	NE	NE	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	ACENAPHTHENE	338	3,440	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	ACENAPHTHYLENE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	ANTHRACENE	5,410	17,200	0.0257	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	0.0943	J	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZENAMINE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZO(A)PYRENE	0.52	0.148	0.0204	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZO(GHI)PERYLENE	NE	NE	0.038	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	0.0535	J	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0338	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	CARBAZOLE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	0.0468	J	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	CHRYSENE	160	147	0.0206	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DIBENZOFURAN	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DIETHYL PHTHALATE	193	48,900	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	FLUORANTHENE	2,430	2,290	0.0321	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	FLUORENE	406	2,290	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	ISOPHORONE	3.84	5,120	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	NAPHTHALENE	0.0713	43.0	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	NITROBENZENE	0.0125	53.5	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP048			DP048			DP048			DP048			DP049			DP049			DP049			DP049		
			SAMPLE NO	FFOR0265			FFOR0266			FFOR0267			FFOR0268			FFOR0269			FFOR0270			FFOR0271			FFOR0272		
			SAMPLE DATE	25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.7	ND	U	1.95	ND	U	1.91	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.83	ND	U	1.96
	PHENANTHRENE	571	1,830	0.0176	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	PHENOL	99.5	18,300	ND	U	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	PYRENE	1,790	1,720	0.0308	J	0.34	ND	U	0.39	ND	U	0.381	ND	U	0.357	ND	U	0.341	ND	U	0.365	ND	U	0.366	ND	U	0.392
	PYRIDINE	NE	NE	ND	U	0.34	ND	UJ	0.39	ND	UJ	0.381	ND	UJ	0.357	ND	U	0.341	ND	UJ	0.365	ND	U	0.366	ND	UJ	0.392
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0474	0.00157	J	0.00243	0.000709	J	0.0025	0.000216	J	0.00308	0.000207	J	0.00204	ND	U	0.00264	0.000217	J	0.00238	0.00162	J	0.00236
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0474	0.000916	J	0.00243	0.000388	J	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	0.000892	J	0.00236
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	1-CHLOROHEXANE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	UJ	0.0025	ND	U	0.00308	ND	UJ	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	2-BUTANONE	25.5	37,100	0.0246	J	0.118	0.00262	J	0.00608	0.000899	J	0.00625	0.00436	J	0.0077	0.0122		0.00511	ND	U	0.00659	ND	U	0.00595	ND	U	0.00589
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	2-HEXANONE	NE	NE	ND	U	0.118	ND	U	0.00608	ND	U	0.00625	ND	U	0.0077	ND	U	0.00511	ND	U	0.00659	ND	U	0.00595	ND	U	0.00589
	2-PROPENAL	0.000146	0.404	ND	UJ	0.592	ND	U	0.0304	ND	UJ	0.0313	ND	U	0.0385	ND	UJ	0.0255	ND	U	0.033	ND	U	0.0297	ND	U	0.0294
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.592	ND	U	0.0304	ND	UJ	0.0313	ND	U	0.0385	ND	UJ	0.0255	ND	U	0.033	ND	U	0.0297	ND	U	0.0294
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.118	ND	U	0.00608	ND	U	0.00625	ND	U	0.0077	ND	U	0.00511	ND	U	0.00659	ND	U	0.00595	ND	U	0.00589
	ACETONE	77.1	66,600	ND	U	0.592	0.00703	J	0.0304	0.00372	J	0.0313	0.0121	J	0.0385	0.0821		0.0255	0.00782	J	0.033	0.00703	J	0.0297	0.0065	J	0.0294
	BENZENE	0.0345	15.4	ND	U	0.0474	0.00434		0.00243	0.00206	J	0.0025	0.00049	J	0.00308	0.00052	J	0.00204	0.000156	J	0.00264	0.000308	J	0.00238	0.00405		0.00236
	BROMOBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	BROMOFORM	12.1	6,116	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	BROMOMETHANE	0.0385	16.5	ND	U	0.0474	ND	UJ	0.00243	ND	U	0.0025	ND	UJ	0.00308	ND	U	0.00204	ND	UJ	0.00264	ND	UJ	0.00238	ND	UJ	0.00236
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	0.00175	J	0.00236
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CHLOROBENZENE	0.984	376	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CHLOROETHANE	107	29,800	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CHLOROFORM	0.00918	5.86	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CHLOROMETHANE	0.879	275	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	ETHYLBENZENE	0.26	68.4	ND	U	0.0474	0.000674	J	0.00243	0.000368	J	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	0.00084	J	0.00236
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	M,P-XYLENES	NE	NE	ND	U	0.0947	0.00355	J	0.00486	0.00156	J	0.005	ND	U	0.00616	0.000853	J	0.00408	ND	U	0.00527	ND	U	0.00476	0.00376	J	0.00471
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	METHYLENE CHLORIDE	0.824	409	0.0149	J	0.118	ND	U	0.00608	ND	U	0.00625	ND	U	0.0077	ND	U	0.00511	ND	U	0.00659	ND	U	0.00595	ND	U	0.00589
	NAPHTHALENE	0.0713	43.0	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	N-BUTYLBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	N-PROPYLBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	O-XYLENE	3.13	898	ND	U	0.0474	0.000913	J	0.00243	0.000392	J	0.0025	ND	U	0.00308	0.000253	J	0.00204	ND	U	0.00264	ND	U	0.00238	0.00098	J	0.00236

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		LOCATION CODE		DP048			DP048			DP048			DP048			DP049			DP049			DP049			DP049		
		SAMPLE NO		FFOR0265			FFOR0266			FFOR0267			FFOR0268			FFOR0269			FFOR0270			FFOR0271			FFOR0272		
		SAMPLE DATE		25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	STYRENE	27.7	7,280	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TOLUENE	25.3	5,270	ND	U	0.0474	0.00518		0.00243	0.00275		0.0025	0.000972	J	0.00308	0.00496		0.00204	ND	U	0.00264	0.000561	J	0.00238	0.0057		0.00236
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	VINYL ACETATE	1.52	2,560	ND	U	0.0474	ND	UJ	0.00243	ND	UJ	0.0025	ND	UJ	0.00308	ND	UJ	0.00204	ND	UJ	0.00264	ND	UJ	0.00238	ND	UJ	0.00236
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0474	ND	U	0.00243	ND	U	0.0025	ND	U	0.00308	ND	U	0.00204	ND	U	0.00264	ND	U	0.00238	ND	U	0.00236
	XYLENES	3.13	814	ND	U	0.142	0.00446	J	0.0073	0.00195	J	0.0075	ND	U	0.00924	0.0011	J	0.00613	ND	U	0.00791	ND	U	0.00713	0.00474	J	0.00707
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	13.8		0.62	8.85		0.71	9		0.69	4.88		0.65	44.3		0.63	4.49		1.35	7.68	J-	0.67	9.52		0.73

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP049			DP049			DP050			DP050			DP050			DP050			DP050			DP050		
			SAMPLE NO	FFOR0273			FFOR0274			FFOR0275			FFOR0276			FFOR0277			FFOR0278			FFOR0279			FFOR0280		
			SAMPLE DATE	25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.32	ND	U	4.34	7.4		4.15	4.88		4.22	3.46	J	4.12	ND	U	4.45	1.85	J	4.63	ND	U	4.24
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.08	ND	U	7.56	ND	U	5.79	ND	U	6.21	ND	U	5.9	ND	U	5.93	ND	U	6.07	ND	U	5.04
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.718	ND	U	0.72	ND	U	0.696	ND	U	0.696	ND	U	0.68	ND	U	0.731	ND	U	0.775	ND	U	0.706
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.36	0.0251	J	0.348	0.0177	J	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.36	0.0434	J	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.36	0.0384	J	0.348	0.0264	J	0.348	0.0177	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.36	0.0475	J	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.36	0.068	J	0.348	0.0337	J	0.348	0.0274	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.36	0.0279	J	0.348	ND	U	0.348	0.0142	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.36	0.0529	J	0.348	0.0217	J	0.348	0.0215	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.36	0.0243	J	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.36	0.0919	J	0.348	0.043	J	0.348	0.0333	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.36	0.0491	J	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP049			DP049			DP050			DP050			DP050			DP050			DP050			DP050		
			SAMPLE NO	FFOR0273			FFOR0274			FFOR0275			FFOR0276			FFOR0277			FFOR0278			FFOR0279			FFOR0280		
			SAMPLE DATE	25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.94	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.36	0.0637	J	0.348	0.031	J	0.348	0.0245	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.36	0.0973	J	0.348	0.0433	J	0.348	0.036	J	0.34	ND	U	0.366	ND	U	0.387	ND	U	0.353
	PYRIDINE	NE	NE	ND	UJ	0.359	ND	UJ	0.36	ND	U	0.348	ND	U	0.348	ND	U	0.34	ND	UJ	0.366	ND	UJ	0.387	ND	UJ	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	0.00029	J	0.00186	0.00166	J	0.00268	ND	U	0.00195
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	0.000148	J	0.00186	0.000952	J	0.00268	ND	U	0.00195
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	2-BUTANONE	25.5	37,100	0.00436	J	0.00616	0.0032	J	0.00742	0.0024	J	0.00711	0.00581		0.00532	ND	U	0.00972	ND	U	0.00465	0.00403	J	0.00669	0.000829	J	0.00488
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	2-HEXANONE	NE	NE	ND	U	0.00616	ND	U	0.00742	ND	U	0.00711	ND	U	0.00532	ND	U	0.00972	ND	U	0.00465	ND	U	0.00669	ND	U	0.00488
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0308	ND	U	0.0371	ND	U	0.0355	ND	U	0.0266	ND	U	0.0486	ND	U	0.0233	ND	U	0.0335	ND	U	0.0244
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0308	ND	U	0.0371	ND	U	0.0355	ND	U	0.0266	ND	U	0.0486	ND	U	0.0233	ND	U	0.0335	ND	U	0.0244
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00616	ND	U	0.00742	ND	U	0.00711	ND	U	0.00532	ND	U	0.00972	ND	U	0.00465	ND	U	0.00669	ND	U	0.00488
	ACETONE	77.1	66,600	0.0252	J	0.0308	0.0217	J	0.0371	0.023	J	0.0355	0.05	J	0.0266	0.017	J	0.0486	ND	UJ	0.0233	0.0153	J	0.0335	0.003	J	0.0244
	BENZENE	0.0345	15.4	0.000381	J	0.00246	0.000323	J	0.00297	ND	U	0.00284	0.000263	J	0.00213	ND	U	0.00389	0.000925	J	0.00186	0.00534		0.00268	0.000216	J	0.00195
	BROMOBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	BROMOFORM	12.1	6,116	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	BROMOMETHANE	0.0385	16.5	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CHLOROBENZENE	0.984	376	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CHLOROETHANE	107	29,800	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CHLOROFORM	0.00918	5.86	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CHLOROMETHANE	0.879	275	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00246	ND	UJ	0.00297	ND	UJ	0.00284	ND	UJ	0.00213	ND	U	0.00389	ND	UJ	0.00186	ND	UJ	0.00268	ND	UJ	0.00195
	ETHYLBENZENE	0.26	68.4	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	0.00105	J	0.00268	ND	U	0.00195
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	M,P-XYLENES	NE	NE	ND	U	0.00493	ND	U	0.00593	ND	U	0.00569	ND	U	0.00426	ND	U	0.00778	0.000641	J	0.00372	0.00422	J	0.00535	ND	U	0.0039
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00616	ND	U	0.00742	0.0025	J	0.00711	ND	U	0.00532	ND	U	0.00972	ND	U	0.00465	ND	U	0.00669	ND	U	0.00488
	NAPHTHALENE	0.0713	43.0	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	N-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	N-PROPYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	O-XYLENE	3.13	898	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	0.000168	J	0.00186	0.00114	J	0.00268	ND	U	0.00195

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP049			DP049			DP050			DP050			DP050			DP050			DP050			DP050		
		SAMPLE NO		FFOR0273			FFOR0274			FFOR0275			FFOR0276			FFOR0277			FFOR0278			FFOR0279			FFOR0280		
		SAMPLE DATE		25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11			25-Jun-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	STYRENE	27.7	7,280	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TOLUENE	25.3	5,270	0.000974	J	0.00246	0.000453	J	0.00297	ND	U	0.00284	0.000571	J	0.00213	0.000562	J	0.00389	0.00126	J	0.00186	0.00757		0.00268	0.000477	J	0.00195
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00246	ND	U	0.00297	ND	U	0.00284	ND	U	0.00213	ND	U	0.00389	ND	U	0.00186	ND	U	0.00268	ND	U	0.00195
	XYLENES	3.13	814	ND	U	0.00739	ND	U	0.0089	ND	U	0.00853	ND	U	0.00638	ND	U	0.0117	0.000808	J	0.00559	0.00535	J	0.00803	ND	U	0.00586
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.89		0.65	4.36		0.65	19		0.63	17.5		0.63	6.69		0.62	5.96		0.66	8.76		0.7	3.82		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP051			DP051			DP051			DP051			DP051			DP051			DP052			DP052		
			SAMPLE NO	FFOR0281			FFOR0282			FFOR0283			FFOR0284			FFOR0285			FFOR0286			FFOR0287			FFOR0288		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.01		4.34	4.75		4.31	4.04	J	4.3	3.67	J	4.32	1590		242	ND	U	4.31	9.94		4.18	10.6		4.21
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.58	ND	U	6.04	ND	U	7.38	ND	U	5.14	ND	U	5.61	ND	U	7.89	ND	U	5.11	ND	U	4.91
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.716	ND	U	0.701	ND	U	0.709	ND	U	0.713	ND	U	0.797	ND	U	0.722	ND	U	0.693	ND	U	0.706
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0373	J	0.346	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	0.0161	J	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.033	J	0.346	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0391	J	0.346	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	0.0234	J	0.358	0.23	J	0.351	0.102	J	0.355	0.0747	J	0.357	ND	U	0.398	ND	U	0.361	0.0266	J	0.346	0.0383	J	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0239	J	0.346	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	CHRYSENE	160	147	0.023	J	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.044	J	0.346	0.0517	J	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	FLUORANTHENE	2,430	2,290	0.0359	J	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0867	J	0.346	0.0121	J	0.353
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP051			DP051			DP051			DP051			DP051			DP051			DP052			DP052		
			SAMPLE NO	FFOR0281			FFOR0282			FFOR0283			FFOR0284			FFOR0285			FFOR0286			FFOR0287			FFOR0288		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.99	ND	U	1.81	ND	U	1.73	ND	U	1.76
	PHENANTHRENE	571	1,830	0.0241	J	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0674	J	0.346	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
	PYRENE	1,790	1,720	0.0302	J	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	0.0714	J	0.346	ND	U	0.353
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.351	ND	U	0.355	ND	U	0.357	ND	U	0.398	ND	U	0.361	ND	U	0.346	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000105	J	0.00167	ND	U	0.00218	0.000132	J	0.0022	0.000468	J	0.00271	0.00122	J	0.00248	0.000178	J	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	0.000212	J	0.00271	0.000621	J	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00167	ND	UJ	0.00218	ND	UJ	0.0022	ND	UJ	0.00271	ND	UJ	0.00248	ND	UJ	0.00216	ND	UJ	0.00229	ND	U	0.00193
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	2-BUTANONE	25.5	37,100	ND	U	0.00418	ND	U	0.00544	ND	U	0.00551	ND	U	0.00678	0.00498	J	0.00621	0.00313	J	0.0054	ND	U	0.00572	ND	U	0.00483
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	2-HEXANONE	NE	NE	ND	UJ	0.00418	ND	UJ	0.00544	ND	UJ	0.00551	ND	UJ	0.00678	ND	UJ	0.00621	ND	UJ	0.0054	ND	UJ	0.00572	ND	U	0.00483
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0209	ND	UJ	0.0272	ND	UJ	0.0275	ND	UJ	0.0339	ND	U	0.031	ND	U	0.027	ND	U	0.0286	ND	U	0.0241
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0209	ND	UJ	0.0272	ND	UJ	0.0275	ND	UJ	0.0339	ND	UJ	0.031	ND	UJ	0.027	ND	UJ	0.0286	ND	U	0.0241
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00418	ND	U	0.00544	ND	U	0.00551	ND	U	0.00678	ND	U	0.00621	ND	U	0.0054	ND	U	0.00572	ND	U	0.00483
	ACETONE	77.1	66,600	0.0112	J	0.0209	0.0121	J	0.0272	0.0115	J	0.0275	0.0279	J	0.0339	0.0277	J	0.031	0.0194	J	0.027	0.024	J	0.0286	0.0129	J	0.0241
	BENZENE	0.0345	15.4	0.000172	J	0.00167	0.000138	J	0.00218	ND	U	0.0022	0.00026	J	0.00271	0.00279		0.00248	0.00032	J	0.00216	0.000139	J	0.00229	0.000136	J	0.00193
	BROMOBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	BROMOFORM	12.1	6,116	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	BROMOMETHANE	0.0385	16.5	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	UJ	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CHLOROBENZENE	0.984	376	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CHLOROETHANE	107	29,800	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CHLOROFORM	0.00918	5.86	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CHLOROMETHANE	0.879	275	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	ETHYLBENZENE	0.26	68.4	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	UJ	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	M,P-XYLENES	NE	NE	ND	U	0.00334	ND	U	0.00435	ND	U	0.00441	ND	U	0.00543	ND	U	0.00496	ND	U	0.00432	ND	U	0.00458	ND	U	0.00386
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00418	ND	U	0.00544	ND	U	0.00551	0.00421	J	0.00678	ND	U	0.00621	ND	U	0.0054	0.00313	J	0.00572	ND	U	0.00483
	NAPHTHALENE	0.0713	43.0	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	N-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	N-PROPYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	O-XYLENE	3.13	898	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP051			DP051			DP051			DP051			DP051			DP051			DP052			DP052		
		SAMPLE NO		FFOR0281			FFOR0282			FFOR0283			FFOR0284			FFOR0285			FFOR0286			FFOR0287			FFOR0288		
		SAMPLE DATE		27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	STYRENE	27.7	7,280	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TOLUENE	25.3	5,270	0.000229	J	0.00167	0.000379	J	0.00218	0.000445	J	0.0022	0.000769	J	0.00271	0.00407		0.00248	0.000727	J	0.00216	0.000455	J	0.00229	ND	U	0.00193
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	VINYL ACETATE	1.52	2,560	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00167	ND	U	0.00218	ND	U	0.0022	ND	U	0.00271	ND	U	0.00248	ND	U	0.00216	ND	U	0.00229	ND	U	0.00193
	XYLENES	3.13	814	ND	U	0.00501	ND	U	0.00653	ND	U	0.00661	ND	U	0.00814	ND	U	0.00745	ND	U	0.00648	ND	U	0.00687	ND	U	0.00579
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	12.6		0.65	3.77		0.65	3.78		0.64	7.3	J	0.66	8.3		0.72	4.36		0.66	10.8		0.63	5.77		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP052			DP052			DP052			DP053			DP053			DP053			DP053			DP053		
			SAMPLE NO	FFOR0289			FFOR0290			FFOR0291			FFOR0292			FFOR0293			FFOR0294			FFOR0295			FFOR0296		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	51.8		4.43	2.1	J	4.44	ND	U	4.29	142		20.6	8.08		4.39	2.37	J	4.35	5.61		4.45	ND	U	4.81
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.61	ND	U	5.78	ND	U	5.73	1.8	J	4.72	2.43	J	4.65	ND	U	4.99	ND	U	5.45	ND	U	4.98
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2-CHLOROPHENOL	2.31	391	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	2-NITROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.729	ND	U	0.73	ND	U	0.707	ND	U	0.691	ND	U	0.73	ND	U	0.722	ND	U	0.735	ND	U	0.793
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	4-CHLOROANILINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98
	ACENAPHTHENE	338	3,440	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	ACENAPHTHYLENE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0605	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	ANTHRACENE	5,410	17,200	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.184	J	0.346	ND	U	0.365	ND	U	0.361	0.0129	J	0.367	ND	U	0.397
	BENZENAMINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0178	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BENZO(GHI)PERYLENE	NE	NE	0.0573	J	0.365	ND	U	0.365	ND	U	0.354	0.161	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	CARBAZOLE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0746	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	CHRYSENE	160	147	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0235	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DIBENZOFURAN	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DIETHYL PHTHALATE	193	48,900	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	FLUORANTHENE	2,430	2,290	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	FLUORENE	406	2,290	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0333	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	ISOPHORONE	3.84	5,120	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	NAPHTHALENE	0.0713	43.0	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	NITROBENZENE	0.0125	53.5	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE			DP052			DP052			DP052			DP053			DP053			DP053			DP053			DP053		
			SAMPLE NO			FFOR0289			FFOR0290			FFOR0291			FFOR0292			FFOR0293			FFOR0294			FFOR0295			FFOR0296		
			SAMPLE DATE			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE			REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.83	ND	U	1.77	ND	U	1.73	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.98		
	PHENANTHRENE	571	1,830	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	PHENOL	99.5	18,300	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	PYRENE	1,790	1,720	ND	U	0.365	ND	U	0.365	ND	U	0.354	0.0232	J	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
	PYRIDINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.354	ND	U	0.346	ND	U	0.365	ND	U	0.361	ND	U	0.367	ND	U	0.397		
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000836	J	0.00211	0.00222	J	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	0.00119	J	0.00218	ND	U	0.00183	0.000839	J	0.00208		
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000441	J	0.00211	0.00121	J	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	0.000641	J	0.00218	0.000317	J	0.00183	0.000492	J	0.00208		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	2-BUTANONE	25.5	37,100	0.00318	J	0.00528	0.00322	J	0.00916	0.00144	J	0.00568	0.0137		0.00446	ND	U	0.00525	0.00178	J	0.00546	ND	U	0.00456	0.000803	J	0.0052		
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	2-HEXANONE	NE	NE	ND	UJ	0.00528	ND	U	0.00916	ND	U	0.00568	ND	U	0.00446	ND	U	0.00525	ND	U	0.00546	ND	U	0.00456	ND	U	0.0052		
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0264	ND	U	0.0458	ND	U	0.0284	ND	U	0.0223	ND	U	0.0262	ND	U	0.0273	ND	U	0.0228	ND	U	0.026		
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0264	ND	U	0.0458	ND	U	0.0284	ND	U	0.0223	ND	U	0.0262	ND	U	0.0273	ND	U	0.0228	ND	U	0.026		
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00528	ND	U	0.00916	ND	U	0.00568	ND	U	0.00446	ND	U	0.00525	ND	U	0.00546	ND	U	0.00456	ND	U	0.0052		
	ACETONE	77.1	66,600	0.0176	J	0.0264	0.0138	J	0.0458	0.00361	J	0.0284	0.0651		0.0223	0.00153	J	0.0262	0.011	J	0.0273	ND	U	0.0228	0.00236	J	0.026		
	BENZENE	0.0345	15.4	0.00177	J	0.00211	0.00504		0.00366	0.000222	J	0.00227	0.000286	J	0.00178	0.000116	J	0.0021	0.00266		0.00218	0.00142	J	0.00183	0.00237		0.00208		
	BROMOBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	BROMOFORM	12.1	6,116	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	BROMOMETHANE	0.0385	16.5	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CHLOROBENZENE	0.984	376	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CHLOROETHANE	107	29,800	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CHLOROFORM	0.00918	5.86	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CHLOROMETHANE	0.879	275	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	ETHYLBENZENE	0.26	68.4	ND	U	0.00211	0.000892	J	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	0.000589	J	0.00218	0.000285	J	0.00183	0.000445	J	0.00208		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	M,P-XYLENES	NE	NE	0.00173	J	0.00422	0.00482	J	0.00733	ND	U	0.00455	0.000468	J	0.00357	ND	U	0.0042	0.00272	J	0.00437	0.00137	J	0.00365	0.00185	J	0.00416		
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00528	ND	U	0.00916	ND	U	0.00568	ND	U	0.00446	ND	U	0.00525	ND	U	0.00546	ND	U	0.00456	ND	U	0.0052		
	NAPHTHALENE	0.0713	43.0	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	N-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	N-PROPYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208		
	O-XYLENE	3.13	898	ND	U	0.00211	0.00128	J	0.00366	ND	U	0.00227	0.000163	J	0.00178	ND	U	0.0021	0.000699	J	0.00218	0.00032	J	0.00183	0.000517	J	0.00208		

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP052			DP052			DP052			DP053			DP053			DP053			DP053			DP053		
		SAMPLE NO		FFOR0289			FFOR0290			FFOR0291			FFOR0292			FFOR0293			FFOR0294			FFOR0295			FFOR0296		
		SAMPLE DATE		27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	STYRENE	27.7	7,280	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TOLUENE	25.3	5,270	0.00256		0.00211	0.0069		0.00366	0.000515	J	0.00227	0.00208		0.00178	0.000284	J	0.0021	0.00377		0.00218	0.002		0.00183	0.00303		0.00208
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	VINYL ACETATE	1.52	2,560	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00211	ND	U	0.00366	ND	U	0.00227	ND	U	0.00178	ND	U	0.0021	ND	U	0.00218	ND	U	0.00183	ND	U	0.00208
	XYLENES	3.13	814	0.00173	J	0.00633	0.00609	J	0.011	ND	U	0.00682	0.000633	J	0.00535	ND	U	0.0063	0.00342	J	0.00655	0.00169	J	0.00548	0.00237	J	0.00624
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.93		0.67	6.91		0.67	4.52		0.65	140		0.63	5.23		0.67	7.27		0.66	10.8		0.68	9.6		0.72

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP053			DP054			DP054			DP054			DP054			DP054			DP055			DP055		
			SAMPLE NO	FFOR0297			FFOR0298			FFOR0299			FFOR0300			FFOR0301			FFOR0302			FFOR0303			FFOR0304		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.33	6.52		4.16	56.9		4.48	4.51	J	4.51	1.81	J	4.66	ND	U	4.28	5.61		4.28	2.65	J	4.42
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.58	ND	U	4.95	ND	U	5.49	ND	U	4.97	ND	U	5.92	ND	U	5.22	ND	U	4.39	ND	U	5.02
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	UJ	1.91	ND	UJ	1.77	ND	U	1.77	ND	UJ	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.716	ND	U	0.699	ND	U	0.752	ND	U	0.742	ND	U	0.766	ND	U	0.709	ND	U	0.709	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	UJ	0.354	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	UJ	0.354	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	0.0145	J	0.349	**0.313**	J	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0318	J	0.354	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.358	0.0129	J	0.349	0.538		0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0343	J	0.354	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0171	J	0.354	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	0.0883	J	0.349	0.0499	J	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.358	0.023	J	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0326	J	0.354	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0355	J	0.354	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.358	0.0287	J	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.051	J	0.354	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.349	0.694		0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP053			DP054			DP054			DP054			DP054			DP054			DP055			DP055		
			SAMPLE NO	FFOR0297			FFOR0298			FFOR0299			FFOR0300			FFOR0301			FFOR0302			FFOR0303			FFOR0304		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.75	ND	U	1.88	ND	U	1.86	ND	U	1.91	ND	U	1.77	ND	U	1.77	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.358	0.0151	J	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0373	J	0.354	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.358	0.021	J	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	0.0525	J	0.354	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.349	ND	U	0.376	ND	U	0.371	ND	U	0.383	ND	U	0.354	ND	U	0.354	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00218	0.000158	J	0.00183	ND	U	0.00213	0.000584	J	0.00209	0.000647	J	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	0.000342	J	0.00209	0.000396	J	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	1-CHLOROHEXANE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	2-BUTANONE	25.5	37,100	0.0011	J	0.00545	0.000605	J	0.00459	ND	U	0.00534	ND	U	0.00523	ND	U	0.00402	ND	U	0.00469	ND	U	0.0072	ND	U	0.006
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	2-HEXANONE	NE	NE	ND	U	0.00545	ND	U	0.00459	ND	U	0.00534	ND	U	0.00523	ND	U	0.00402	ND	U	0.00469	ND	U	0.0072	ND	U	0.006
	2-PROPENAL	0.000146	0.404	ND	U	0.0273	ND	U	0.0229	ND	U	0.0267	ND	U	0.0262	ND	U	0.0201	ND	U	0.0235	ND	U	0.036	ND	U	0.03
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0273	ND	U	0.0229	ND	U	0.0267	ND	U	0.0262	ND	U	0.0201	ND	U	0.0235	ND	U	0.036	ND	U	0.03
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00545	ND	U	0.00459	ND	U	0.00534	ND	U	0.00523	ND	U	0.00402	ND	U	0.00469	ND	U	0.0072	ND	U	0.006
	ACETONE	77.1	66,600	0.00339	J	0.0273	0.0138	J	0.0229	0.00377	J	0.0267	ND	U	0.0262	ND	U	0.0201	ND	U	0.0235	0.0245	J	0.036	0.00544	J	0.03
	BENZENE	0.0345	15.4	0.000248	J	0.00218	0.000257	J	0.00183	ND	U	0.00213	0.00134	J	0.00209	0.00187		0.00161	0.000166	J	0.00188	0.000157	J	0.00288	ND	U	0.0024
	BROMOBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	BROMOFORM	12.1	6,116	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	BROMOMETHANE	0.0385	16.5	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CHLOROBENZENE	0.984	376	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CHLOROETHANE	107	29,800	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CHLOROFORM	0.00918	5.86	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CHLOROMETHANE	0.879	275	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	UJ	0.00288	ND	U	0.0024
	ETHYLBENZENE	0.26	68.4	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	0.000273	J	0.00209	0.000406	J	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	M,P-XYLENES	NE	NE	ND	U	0.00436	0.000475	J	0.00367	ND	U	0.00427	0.00127	J	0.00419	0.00148	J	0.00321	ND	U	0.00375	ND	U	0.00576	ND	U	0.0048
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00545	ND	U	0.00459	ND	U	0.00534	ND	U	0.00523	ND	U	0.00402	ND	U	0.00469	0.00218	J	0.0072	ND	U	0.006
	NAPHTHALENE	0.0713	43.0	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	N-BUTYLBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	N-PROPYLBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	O-XYLENE	3.13	898	ND	U	0.00218	0.000161	J	0.00183	ND	U	0.00213	0.00034	J	0.00209	0.000369	J	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP053			DP054			DP054			DP054			DP054			DP054			DP055			DP055		
		SAMPLE NO		FFOR0297			FFOR0298			FFOR0299			FFOR0300			FFOR0301			FFOR0302			FFOR0303			FFOR0304		
		SAMPLE DATE		27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	STYRENE	27.7	7,280	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TOLUENE	25.3	5,270	0.000517	J	0.00218	0.000851	J	0.00183	ND	U	0.00213	0.00197	J	0.00209	0.0025		0.00161	ND	U	0.00188	ND	U	0.00288	0.000552	J	0.0024
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	VINYL ACETATE	1.52	2,560	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00218	ND	U	0.00183	ND	U	0.00213	ND	U	0.00209	ND	U	0.00161	ND	U	0.00188	ND	U	0.00288	ND	U	0.0024
	XYLENES	3.13	814	ND	U	0.00654	0.000636	J	0.0055	ND	U	0.0064	0.00161	J	0.00628	0.00186	J	0.00482	ND	U	0.00563	ND	U	0.00864	ND	U	0.0072
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.15		0.65	12.6		0.63	4.66		0.68	8.26		0.68	8.3		0.7	4.29		0.64	32.4	J	0.64	49.2		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP055			DP055			DP055			DP055			DP056			DP056			DP056			DP056		
		SAMPLE NO		FFOR0305			FFOR0306			FFOR0307			FFOR0308			FFOR0309			FFOR0310			FFOR0311			FFOR0312		
		SAMPLE DATE		27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	39.2		4.59	ND	U	4.5	ND	U	4.26	ND	U	4.32	97.2		8.61	6.96		4.62	9.97		4.26	ND	U	4.54
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.03	ND	U	5.35	ND	U	5.58	ND	U	5.84	ND	U	4.96	ND	U	4.44	ND	U	3.99	ND	U	3.72
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.88	ND	UJ	1.89	ND	UJ	1.78	ND	UJ	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2-CHLOROPHENOL	2.31	391	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	2-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.753	ND	U	0.755	ND	U	0.712	ND	U	0.712	ND	U	0.71	ND	U	0.749	ND	U	0.692	ND	U	0.737
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	3-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	4-CHLOROANILINE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	4-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	ACENAPHTHYLENE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	0.0737	J	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	ANTHRACENE	5,410	17,200	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	0.239	J	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZENAMINE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	0.0206	J	0.346	ND	U	0.369
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	CARBAZOLE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	0.0669	J	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	CHRYSENE	160	147	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DIBENZOFURAN	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DIETHYL PHTHALATE	193	48,900	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	FLUORANTHENE	2,430	2,290	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	0.0119	J	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	FLUORENE	406	2,290	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	3.55	ND	U	0.375	ND	U	0.346	ND	U	0.369
	ISOPHORONE	3.84	5,120	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	NAPHTHALENE	0.0713	43.0	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	NITROBENZENE	0.0125	53.5	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP055			DP055			DP055			DP055			DP056			DP056			DP056			DP056		
			SAMPLE NO	FFOR0305			FFOR0306			FFOR0307			FFOR0308			FFOR0309			FFOR0310			FFOR0311			FFOR0312		
			SAMPLE DATE	27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.88	ND	U	1.89	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.87	ND	U	1.73	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	PHENOL	99.5	18,300	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	PYRENE	1,790	1,720	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	U	0.355	ND	U	0.375	ND	U	0.346	ND	U	0.369
	PYRIDINE	NE	NE	ND	U	0.376	ND	U	0.377	ND	U	0.356	ND	U	0.356	ND	UJ	0.355	ND	UJ	0.375	ND	UJ	0.346	ND	UJ	0.369
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00117	J	0.00232	0.000979	J	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	0.000624	J	0.00177
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000702	J	0.00232	0.000548	J	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	0.000353	J	0.00177
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	1-CHLOROHEXANE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	2-BUTANONE	25.5	37,100	0.00172	J	0.00579	0.00332	J	0.00469	0.00189	J	0.00591	0.00164	J	0.00536	0.00605		0.00494	ND	U	0.00429	ND	U	0.00391	ND	U	0.00443
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	2-HEXANONE	NE	NE	ND	U	0.00579	ND	U	0.00469	ND	U	0.00591	ND	U	0.00536	ND	U	0.00494	ND	U	0.00429	ND	U	0.00391	ND	U	0.00443
	2-PROPENAL	0.000146	0.404	ND	U	0.0289	ND	U	0.0234	ND	U	0.0295	ND	U	0.0268	ND	U	0.0247	ND	U	0.0214	ND	U	0.0195	ND	U	0.0222
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0289	ND	U	0.0234	ND	U	0.0295	ND	U	0.0268	ND	U	0.0247	ND	U	0.0214	ND	U	0.0195	ND	U	0.0222
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00579	ND	U	0.00469	ND	U	0.00591	ND	U	0.00536	ND	U	0.00494	ND	U	0.00429	ND	U	0.00391	ND	U	0.00443
	ACETONE	77.1	66,600	0.00512	J	0.0289	0.0226	J	0.0234	0.0187	J	0.0295	0.00343	J	0.0268	0.031	J	0.0247	ND	UJ	0.0214	ND	UJ	0.0195	ND	UJ	0.0222
	BENZENE	0.0345	15.4	0.00417		0.00232	0.00226		0.00187	0.000271	J	0.00236	0.00041	J	0.00215	0.00023	J	0.00198	ND	U	0.00171	0.000118	J	0.00156	0.00191		0.00177
	BROMOBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	BROMOFORM	12.1	6,116	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	BROMOMETHANE	0.0385	16.5	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CHLOROBENZENE	0.984	376	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CHLOROETHANE	107	29,800	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CHLOROFORM	0.00918	5.86	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CHLOROMETHANE	0.879	275	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	UJ	0.00198	ND	U	0.00171	ND	U	0.00156	ND	UJ	0.00177
	ETHYLBENZENE	0.26	68.4	0.000631	J	0.00232	0.000606	J	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	0.000345	J	0.00177
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	M,P-XYLENES	NE	NE	0.00318	J	0.00463	0.00209	J	0.00375	ND	U	0.00473	ND	U	0.00429	ND	U	0.00396	ND	U	0.00343	ND	U	0.00313	0.00148	J	0.00354
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00579	ND	U	0.00469	ND	U	0.00591	ND	U	0.00536	ND	U	0.00494	ND	U	0.00429	ND	U	0.00391	ND	U	0.00443
	NAPHTHALENE	0.0713	43.0	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	N-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	N-PROPYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	O-XYLENE	3.13	898	0.000734	J	0.00232	0.00046	J	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	0.000358	J	0.00177

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		LOCATION CODE		DP055			DP055			DP055			DP055			DP056			DP056			DP056			DP056		
		SAMPLE NO		FFOR0305			FFOR0306			FFOR0307			FFOR0308			FFOR0309			FFOR0310			FFOR0311			FFOR0312		
		SAMPLE DATE		27-Jun-11			27-Jun-11			27-Jun-11			27-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	STYRENE	27.7	7,280	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TOLUENE	25.3	5,270	0.00516		0.00232	0.00349		0.00187	ND	U	0.00236	ND	U	0.00215	0.000341	J	0.00198	ND	U	0.00171	0.000242	J	0.00156	0.00234		0.00177
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	VINYL ACETATE	1.52	2,560	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00232	ND	U	0.00187	ND	U	0.00236	ND	U	0.00215	ND	U	0.00198	ND	U	0.00171	ND	U	0.00156	ND	U	0.00177
	XYLENES	3.13	814	0.00392	J	0.00695	0.00256	J	0.00562	ND	U	0.00709	ND	U	0.00644	ND	U	0.00593	ND	U	0.00514	ND	U	0.00469	0.00184	J	0.00532
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	10.4		0.68	7.13		0.69	4.69		0.65	4.53		0.64	12.1		0.65	5.59		1.38	7.09		0.64	7.85		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP056			DP057			DP057			DP057			DP057			DP057			DP057			DP058		
			SAMPLE NO	FFOR0313			FFOR0314			FFOR0315			FFOR0316			FFOR0317			FFOR0318			FFOR0319			FFOR0320		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.4	9.79		4.18	13.4		4.48	ND	U	4.27	ND	U	4.28	ND	U	4.61	ND	U	4.31	10.9		4.12
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.69	ND	U	4.9	ND	U	4.56	ND	U	4.25	ND	U	4.65	ND	U	4.81	ND	U	5.76	ND	U	6.69
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.69	ND	U	0.741	ND	U	0.712	ND	U	0.695	ND	U	0.761	ND	U	0.711	ND	U	0.682
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.0181	J	0.341
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	ANTHRACENE	5,410	17,200	ND	U	0.363	0.0258	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.0265	J	0.341
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	0.0527	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.0729	J	0.341
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.363	0.0247	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.0318	J	0.341
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	CHRYSENE	160	147	ND	U	0.363	0.0746	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.0813	J	0.341
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	FLUORANTHENE	2,430	2,290	ND	U	0.363	0.116	J	0.345	ND	U	0.37	ND	U	0.356	0.00846	J	0.347	ND	U	0.38	ND	U	0.356	0.197	J	0.341
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	3.45	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	1.9	ND	U	0.356	ND	U	3.41
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP056			DP057			DP057			DP057			DP057			DP057			DP057			DP058		
			SAMPLE NO	FFOR0313			FFOR0314			FFOR0315			FFOR0316			FFOR0317			FFOR0318			FFOR0319			FFOR0320		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.73	ND	U	1.85	ND	U	1.78	ND	U	1.74	ND	U	1.9	ND	U	1.78	ND	U	1.7
	PHENANTHRENE	571	1,830	ND	U	0.363	0.0642	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.126	J	0.341
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	ND	U	0.341
	PYRENE	1,790	1,720	ND	U	0.363	0.0911	J	0.345	ND	U	0.37	ND	U	0.356	ND	U	0.347	ND	U	0.38	ND	U	0.356	0.137	J	0.341
	PYRIDINE	NE	NE	ND	UJ	0.363	ND	UJ	0.345	ND	UJ	0.37	ND	UJ	0.356	ND	UJ	0.347	ND	UJ	0.38	ND	UJ	0.356	ND	UJ	0.341
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	0.000428	J	0.00238	ND	U	0.00286
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	0.000301	J	0.00191	0.000155	J	0.00188	0.00165	J	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	0.000134	J	0.00191	ND	U	0.00188	0.00101	J	0.00211	ND	U	0.00238	ND	U	0.00286
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	2-BUTANONE	25.5	37,100	0.00107	J	0.00505	ND	U	0.0261	ND	U	0.00595	ND	U	0.00477	ND	U	0.00469	0.00396	J	0.00529	0.00261	J	0.00594	0.00211	J	0.00715
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	2-HEXANONE	NE	NE	ND	U	0.00505	ND	U	0.0261	ND	U	0.00595	ND	U	0.00477	ND	U	0.00469	ND	U	0.00529	ND	U	0.00594	ND	U	0.00715
	2-PROPENAL	0.000146	0.404	ND	U	0.0252	ND	U	0.131	ND	U	0.0297	ND	U	0.0239	ND	U	0.0235	ND	U	0.0264	ND	UJ	0.0297	ND	U	0.0358
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0252	ND	U	0.131	ND	U	0.0297	ND	U	0.0239	ND	U	0.0235	ND	U	0.0264	ND	U	0.0297	ND	U	0.0358
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00505	ND	U	0.0261	ND	U	0.00595	ND	U	0.00477	ND	U	0.00469	ND	U	0.00529	ND	U	0.00594	ND	U	0.00715
	ACETONE	77.1	66,600	0.00338	J	0.0252	ND	U	0.131	0.00172	J	0.0297	0.00272	J	0.0239	ND	UJ	0.0235	0.0136	J	0.0264	0.00416	J	0.0297	0.0142	J	0.0358
	BENZENE	0.0345	15.4	0.000248	J	0.00202	0.000899	J	0.0105	ND	U	0.00238	0.000585	J	0.00191	0.000346	J	0.00188	0.0066		0.00211	ND	U	0.00238	0.000383	J	0.00286
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	BROMOMETHANE	0.0385	16.5	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CHLOROFORM	0.00918	5.86	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00202	ND	U	0.0105	ND	UJ	0.00238	ND	UJ	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	ETHYLBENZENE	0.26	68.4	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	0.00127	J	0.00211	ND	U	0.00238	ND	U	0.00286
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	M,P-XYLENES	NE	NE	ND	U	0.00404	ND	U	0.0209	ND	U	0.00476	0.000581	J	0.00382	0.000344	J	0.00375	0.00444		0.00423	ND	U	0.00475	ND	U	0.00572
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00505	ND	U	0.0261	ND	U	0.00595	ND	U	0.00477	ND	U	0.00469	ND	U	0.00529	ND	U	0.00594	ND	U	0.00715
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	O-XYLENE	3.13	898	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	0.000176	J	0.00191	ND	U	0.00188	0.0011	J	0.00211	ND	U	0.00238	ND	U	0.00286

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP056			DP057			DP057			DP057			DP057			DP057			DP057			DP058		
		SAMPLE NO		FFOR0313			FFOR0314			FFOR0315			FFOR0316			FFOR0317			FFOR0318			FFOR0319			FFOR0320		
		SAMPLE DATE		28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TOLUENE	25.3	5,270	0.00041	J	0.00202	0.00261	J	0.0105	0.000363	J	0.00238	0.00113	J	0.00191	0.000712	J	0.00188	0.00777		0.00211	ND	U	0.00238	0.000631	J	0.00286
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	UJ	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.0105	ND	U	0.00238	ND	U	0.00191	ND	U	0.00188	ND	U	0.00211	ND	U	0.00238	ND	U	0.00286
	XYLENES	3.13	814	ND	U	0.00606	ND	U	0.0314	ND	U	0.00714	0.000757	J	0.00573	ND	U	0.00563	0.00554	J	0.00634	ND	U	0.00713	ND	U	0.00858
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.27		0.66	15		0.62	4.87		0.67	5.38		0.65	5.33		0.64	9.02		0.69	4.29		0.66	14.5		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP058			DP058			DP058			DP058			DP059			DP059			DP059			DP059		
			SAMPLE NO	FFOR0321			FFOR0322			FFOR0323			FFOR0324			FFOR0325			FFOR0326			FFOR0327			FFOR0328		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.81		4.55	11.2		4.33	ND	U	4.75	ND	U	4.35	60.4		4.18	3.37	J	4.47	1.71	J	4.29	ND	U	4.55
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.59	ND	U	5.26	ND	U	4.5	ND	U	4.3	ND	U	5.04	ND	U	4.55	ND	U	3.95	ND	U	4.39
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,4-DINITROPHENOL	1.26	122	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2-CHLOROPHENOL	2.31	391	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2-METHYLPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	2-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	2-NITROPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.741	ND	U	0.702	ND	U	0.779	ND	U	0.718	ND	U	6.87	ND	U	0.74	ND	U	6.97	ND	U	0.75
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	3-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	4-CHLOROANILINE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	4-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	4-NITROPHENOL	NE	NE	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	ACENAPHTHENE	338	3,440	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	ACENAPHTHYLENE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	ANTHRACENE	5,410	17,200	0.0342	J	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	0.314	J	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZENAMINE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZO(A)ANTHRACENE	1.57	1.48	0.0941	J	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZO(A)PYRENE	0.52	0.148	ND	U	1.85	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	1.85	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZO(GHI)PERYLENE	NE	NE	0.201	J	1.85	0.017	J	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	1.85	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	CARBAZOLE	NE	NE	0.0329	J	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	CHRYSENE	160	147	0.083	J	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	1.85	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DIBENZOFURAN	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DIETHYL PHTHALATE	193	48,900	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	FLUORANTHENE	2,430	2,290	0.219	J	0.37	0.0247	J	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	FLUORENE	406	2,290	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	1.85	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	ISOPHORONE	3.84	5,120	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	NAPHTHALENE	0.0713	43.0	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	NITROBENZENE	0.0125	53.5	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP058			DP058			DP058			DP058			DP059			DP059			DP059			DP059		
			SAMPLE NO	FFOR0321			FFOR0322			FFOR0323			FFOR0324			FFOR0325			FFOR0326			FFOR0327			FFOR0328		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.85	ND	U	1.76	ND	U	1.95	ND	U	1.8	ND	U	17.2	ND	U	1.85	ND	U	17.4	ND	U	1.88
	PHENANTHRENE	571	1,830	0.13	J	0.37	0.0176	J	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	PHENOL	99.5	18,300	ND	U	0.37	ND	U	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	PYRENE	1,790	1,720	0.128	J	0.37	0.0252	J	0.351	ND	U	0.389	ND	U	0.359	ND	U	3.43	ND	U	0.37	ND	U	3.49	ND	U	0.375
	PYRIDINE	NE	NE	ND	UJ	0.37	ND	UJ	0.351	ND	UJ	0.389	ND	UJ	0.359	ND	UJ	3.43	ND	UJ	0.37	ND	UJ	3.49	ND	UJ	0.375
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	0.000482	J	0.00193	ND	U	0.00195
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00198	0.000681	J	0.00222	0.00115	J	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	0.00121	J	0.00195
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00198	0.000345	J	0.00222	0.000656	J	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	0.00071	J	0.00195
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	1-CHLOROHEXANE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	2-BUTANONE	25.5	37,100	ND	U	0.00496	0.00401	J	0.00555	0.00101	J	0.00528	0.00111	J	0.00482	0.0145		0.00678	0.00391	J	0.00586	0.0026	J	0.00484	0.00395	J	0.00487
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	2-HEXANONE	NE	NE	ND	U	0.00496	ND	U	0.00555	ND	U	0.00528	ND	U	0.00482	ND	U	0.00678	ND	U	0.00586	ND	U	0.00484	ND	U	0.00487
	2-PROPENAL	0.000146	0.404	ND	U	0.0248	ND	U	0.0278	ND	U	0.0264	ND	U	0.0241	ND	UJ	0.0339	ND	U	0.0293	ND	UJ	0.0242	ND	U	0.0244
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0248	ND	U	0.0278	ND	U	0.0264	ND	U	0.0241	ND	U	0.0339	ND	U	0.0293	ND	U	0.0242	ND	U	0.0244
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00496	ND	U	0.00555	ND	U	0.00528	ND	U	0.00482	ND	U	0.00678	ND	U	0.00586	ND	U	0.00484	ND	U	0.00487
	ACETONE	77.1	66,600	ND	UJ	0.0248	0.0404	J	0.0278	0.00319	J	0.0264	0.00531	J	0.0241	0.0563		0.0339	ND	U	0.0293	0.00977	J	0.0242	0.0228	J	0.0244
	BENZENE	0.0345	15.4	ND	U	0.00198	0.00187	J	0.00222	0.00259		0.00211	ND	U	0.00193	0.000486	J	0.00271	0.000368	J	0.00234	0.000878	J	0.00193	0.0047		0.00195
	BROMOBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	BROMOFORM	12.1	6,116	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	BROMOMETHANE	0.0385	16.5	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CHLOROBENZENE	0.984	376	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CHLOROETHANE	107	29,800	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CHLOROFORM	0.00918	5.86	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CHLOROMETHANE	0.879	275	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	ETHYLBENZENE	0.26	68.4	ND	U	0.00198	0.000438	J	0.00222	0.000522	J	0.00211	ND	U	0.00193	0.000345	J	0.00271	ND	U	0.00234	0.000295	J	0.00193	0.000802	J	0.00195
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	M,P-XYLENES	NE	NE	ND	U	0.00397	0.00182	J	0.00444	0.0023	J	0.00422	ND	U	0.00385	ND	U	0.00542	ND	U	0.00469	0.00107	J-	0.00387	0.00305	J	0.0039
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00496	ND	U	0.00555	ND	U	0.00528	ND	U	0.00482	ND	U	0.00678	ND	U	0.00586	ND	U	0.00484	ND	U	0.00487
	NAPHTHALENE	0.0713	43.0	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	N-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	N-PROPYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	O-XYLENE	3.13	898	ND	U	0.00198	0.000473	J	0.00222	0.000584	J	0.00211	ND	U	0.00193	0.000267	J	0.00271	ND	U	0.00234	0.000305	J	0.00193	0.000749	J	0.00195

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP058			DP058			DP058			DP058			DP059			DP059			DP059			DP059		
			SAMPLE NO	FFOR0321			FFOR0322			FFOR0323			FFOR0324			FFOR0325			FFOR0326			FFOR0327			FFOR0328		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	0.000163	J-	0.00193	ND	U	0.00195
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	STYRENE	27.7	7,280	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TOLUENE	25.3	5,270	ND	U	0.00198	0.00291		0.00222	0.00372		0.00211	0.000386	J	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	0.00507		0.00195
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	VINYL ACETATE	1.52	2,560	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	UJ	0.00234	ND	U	0.00193	ND	U	0.00195
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00198	ND	U	0.00222	ND	U	0.00211	ND	U	0.00193	ND	U	0.00271	ND	U	0.00234	ND	U	0.00193	ND	U	0.00195
	XYLENES	3.13	814	ND	U	0.00595	0.00229	J	0.00666	0.00288	J	0.00634	ND	U	0.00578	ND	U	0.00813	ND	U	0.00703	ND	U	0.0058	0.0038	J	0.00585
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	24.3		1.37	8.14		0.65	9.62		0.72	4.08		0.65	17.2		0.63	14.2		0.67	6.78	J-	0.64	7.65	J-	0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP059			DP059			DP060			DP060			DP060			DP060			DP060			DP060		
			SAMPLE NO	FFOR0329			FFOR0330			FFOR0331			FFOR0332			FFOR0333			FFOR0334			FFOR0335			FFOR0336		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.42	J	4.38	ND	U	4.33	14.3		4.31	18		4.22	3.04	J	4.57	5.77		4.32	1.83	J	4.67	ND	U	4.36
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.36	ND	U	4.55	ND	U	5.68	ND	U	4.02	ND	U	3.64	ND	U	5.79	ND	U	4.71	ND	U	3.88
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.735	ND	U	0.715	ND	U	0.7	ND	U	0.696	ND	U	0.742	ND	U	0.712	ND	U	0.771	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.029	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0333	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.368	ND	U	0.357	0.0151	J	0.35	0.0594	J	0.348	0.0125	J	0.371	0.0114	J	0.356	ND	U	0.386	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.026	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0266	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0121	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.368	ND	U	0.357	0.0142	J	0.35	0.0335	J	0.348	0.0143	J	0.371	0.0139	J	0.356	ND	U	0.386	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0394	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP059			DP059			DP060			DP060			DP060			DP060			DP060			DP060		
			SAMPLE NO	FFOR0329			FFOR0330			FFOR0331			FFOR0332			FFOR0333			FFOR0334			FFOR0335			FFOR0336		
			SAMPLE DATE	28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.79	ND	U	1.75	ND	U	1.74	ND	U	1.86	ND	U	1.78	ND	U	1.93	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0148	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.368	ND	U	0.357	ND	U	0.35	ND	U	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.368	ND	U	0.357	ND	U	0.35	0.0391	J	0.348	ND	U	0.371	ND	U	0.356	ND	U	0.386	ND	U	0.359
	PYRIDINE	NE	NE	ND	UJ	0.368	ND	UJ	0.357	ND	UJ	0.35	ND	UJ	0.348	ND	UJ	0.371	ND	UJ	0.356	ND	UJ	0.386	ND	UJ	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	0.000139	J	0.00221	0.000165	J	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	1-CHLOROHEXANE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	2-BUTANONE	25.5	37,100	0.00316	J	0.00585	0.00186	J	0.00552	0.00562		0.00498	0.00352	J	0.00477	ND	U	0.00625	ND	U	0.00438	0.00342	J	0.00439	0.000949	J	0.0041
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	2-HEXANONE	NE	NE	ND	U	0.00585	ND	U	0.00552	ND	U	0.00498	ND	U	0.00477	ND	U	0.00625	ND	U	0.00438	ND	U	0.00439	ND	U	0.0041
	2-PROPENAL	0.000146	0.404	ND	U	0.0293	ND	U	0.0276	ND	U	0.0249	ND	UJ	0.0239	ND	U	0.0313	ND	U	0.0219	ND	UJ	0.022	ND	U	0.0205
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0293	ND	U	0.0276	ND	U	0.0249	ND	U	0.0239	ND	U	0.0313	ND	U	0.0219	ND	U	0.022	ND	U	0.0205
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00585	ND	U	0.00552	ND	U	0.00498	ND	U	0.00477	ND	U	0.00625	ND	U	0.00438	ND	U	0.00439	ND	U	0.0041
	ACETONE	77.1	66,600	0.0129	J-	0.0293	0.0105	J-	0.0276	0.0458	J	0.0249	0.0172	J	0.0239	0.00199	J-	0.0313	ND	UJ	0.0219	0.0122	J	0.022	0.0018	J-	0.0205
	BENZENE	0.0345	15.4	0.00041	J	0.00234	0.000375	J	0.00221	0.00041	J	0.00199	0.000309	J	0.00191	ND	U	0.0025	0.000143	J	0.00175	0.00111	J	0.00176	0.000328	J	0.00164
	BROMOBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	BROMOFORM	12.1	6,116	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	BROMOMETHANE	0.0385	16.5	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CHLOROBENZENE	0.984	376	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CHLOROETHANE	107	29,800	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CHLOROFORM	0.00918	5.86	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CHLOROMETHANE	0.879	275	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	ETHYLBENZENE	0.26	68.4	0.000299	J	0.00234	0.000244	J	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	0.000276	J	0.00176	ND	U	0.00164
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	M,P-XYLENES	NE	NE	ND	U	0.00468	ND	U	0.00442	0.000519	J	0.00399	ND	U	0.00382	ND	U	0.005	ND	U	0.00351	ND	U	0.00351	ND	U	0.00328
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00585	ND	U	0.00552	ND	U	0.00498	ND	U	0.00477	ND	U	0.00625	ND	U	0.00438	ND	U	0.00439	ND	U	0.0041
	NAPHTHALENE	0.0713	43.0	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	N-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	N-PROPYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	O-XYLENE	3.13	898	ND	U	0.00234	ND	U	0.00221	0.000236	J	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	0.000223	J	0.00176	ND	U	0.00164

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP059			DP059			DP060			DP060			DP060			DP060			DP060			DP060		
		SAMPLE NO		FFOR0329			FFOR0330			FFOR0331			FFOR0332			FFOR0333			FFOR0334			FFOR0335			FFOR0336		
		SAMPLE DATE		28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11			28-Jun-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	STYRENE	27.7	7,280	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TOLUENE	25.3	5,270	0.000759	J	0.00234	0.00068	J	0.00221	0.00119	J	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	0.000476	J	0.00164
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	VINYL ACETATE	1.52	2,560	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00234	ND	U	0.00221	ND	U	0.00199	ND	U	0.00191	ND	U	0.0025	ND	U	0.00175	ND	U	0.00176	ND	U	0.00164
	XYLENES	3.13	814	ND	U	0.00702	ND	U	0.00663	0.000755	J	0.00598	ND	U	0.00573	ND	U	0.0075	ND	U	0.00526	ND	U	0.00527	ND	U	0.00492
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.34		0.67	4.51		0.65	9.2		0.65	13.9		0.63	5.55		1.37	5.38		0.66	8.63		0.71	5.38		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP061			DP061			DP061			DP061			DP061			DP061			DP062			DP062		
			SAMPLE NO	FFOR0337			FFOR0338			FFOR0339			FFOR0340			FFOR0341			FFOR0342			FFOR0343			FFOR0344		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.26		4.23	21.1	J	4.33	8.01	J	4.41	7.63		4.42	ND	U	4.34	ND	U	4.26	19		4.26	6.15		4.57
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.53	ND	U	6.73	ND	U	6.11	ND	U	5.66	ND	U	5.07	ND	U	6.06	ND	U	5.54	ND	U	5.79
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2-CHLOROPHENOL	2.31	391	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	0.0353	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.687	ND	U	0.715	ND	U	0.718	ND	U	0.729	ND	U	0.728	ND	U	0.715	ND	U	0.704	ND	U	0.754
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	4-CHLOROANILINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	UJ	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	ACENAPHTHENE	338	3,440	0.0136	J	0.343	0.0262	J	0.358	ND	U	0.359	0.275	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	ACENAPHTHYLENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	0.0297	J	0.352	ND	U	0.377
	ANTHRACENE	5,410	17,200	0.0571	J	0.343	0.0575	J	0.358	0.0245	J	0.359	0.783		0.364	ND	U	0.364	ND	U	0.357	0.0962	J	0.352	0.0287	J	0.377
	BENZENAMINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BENZO(A)ANTHRACENE	1.57	1.48	0.179	J	0.343	0.124	J	0.358	0.0732	J	0.359	**1.81**	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BENZO(A)PYRENE	0.52	0.148	**0.194**	J	3.43	**0.158**	J	0.358	0.0961	J	0.359	**1.37**	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.43	0.172	J	0.358	0.107	J	0.359	**1.77**	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BENZO(GHI)PERYLENE	NE	NE	0.188	J	3.43	0.776		0.358	0.347	J	0.359	0.596		0.364	ND	U	0.364	ND	U	0.357	0.0392	J	0.352	ND	U	0.377
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.43	0.0613	J	0.358	0.0543	J	0.359	0.773		0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	CARBAZOLE	NE	NE	0.0354	J	0.343	0.0316	J	0.358	ND	U	0.359	0.411		0.364	ND	U	0.364	ND	U	0.357	0.0478	J	0.352	ND	U	0.377
	CHRYSENE	160	147	0.285	J	0.343	0.22	J	0.358	0.0942	J	0.359	1.61	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.43	0.0804	J	0.358	0.0367	J	0.359	**0.195**	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DIBENZOFURAN	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	0.154	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DIETHYL PHTHALATE	193	48,900	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	FLUORANTHENE	2,430	2,290	0.26	J	0.343	0.163	J	0.358	0.117	J	0.359	3.19	J	0.364	ND	U	0.364	ND	U	0.357	0.0123	J	0.352	ND	U	0.377
	FLUORENE	406	2,290	ND	U	0.343	0.0151	J	0.358	ND	U	0.359	0.307	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.43	0.354	J	0.358	0.15	J	0.359	0.605		0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	ISOPHORONE	3.84	5,120	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	NAPHTHALENE	0.0713	43.0	ND	U	0.343	ND	U	0.358	ND	U	0.359	0.0519	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	NITROBENZENE	0.0125	53.5	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP061			DP061			DP061			DP061			DP061			DP061			DP062			DP062		
			SAMPLE NO	FFOR0337			FFOR0338			FFOR0339			FFOR0340			FFOR0341			FFOR0342			FFOR0343			FFOR0344		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.79	ND	U	1.76	ND	U	1.89
	PHENANTHRENE	571	1,830	0.132	J	0.343	0.0849	J	0.358	0.0724	J	0.359	2.43	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	PHENOL	99.5	18,300	ND	U	0.343	ND	U	0.358	ND	U	0.359	ND	U	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	PYRENE	1,790	1,720	0.273	J	0.343	0.173	J	0.358	0.137	J	0.359	3.18	J	0.364	ND	U	0.364	ND	U	0.357	ND	U	0.352	ND	U	0.377
	PYRIDINE	NE	NE	ND	UJ	0.343	ND	UJ	0.358	ND	UJ	0.359	ND	UJ	0.364	ND	UJ	0.364	ND	UJ	0.357	ND	UJ	0.352	ND	UJ	0.377
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	0.000164	J	0.00258	0.000321	J	0.00212	0.00114	J	0.00191	0.000224	J	0.00204	0.000191	J	0.00213	ND	U	0.00222
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	0.000164	J	0.00212	0.000629	J	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	1-CHLOROHEXANE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	2-BUTANONE	25.5	37,100	0.00159	J	0.0059	ND	U	0.0119	0.00496	J	0.00646	0.00202	J	0.0053	0.00328	J	0.00479	0.00379	J	0.00511	0.0114		0.00532	0.00199	J	0.00555
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	2-HEXANONE	NE	NE	ND	U	0.0059	ND	U	0.0119	0.0014	J	0.00646	ND	U	0.0053	ND	U	0.00479	ND	U	0.00511	ND	U	0.00532	ND	U	0.00555
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0295	ND	UJ	0.0596	ND	U	0.0323	ND	U	0.0265	ND	UJ	0.0239	ND	U	0.0255	ND	U	0.0266	ND	U	0.0277
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0295	ND	U	0.0596	ND	U	0.0323	ND	U	0.0265	ND	U	0.0239	ND	U	0.0255	ND	U	0.0266	ND	U	0.0277
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0059	ND	U	0.0119	ND	U	0.00646	ND	U	0.0053	ND	U	0.00479	ND	U	0.00511	ND	U	0.00532	ND	U	0.00555
	ACETONE	77.1	66,600	0.0082	J	0.0295	0.0219	J	0.0596	ND	U	0.0323	ND	U	0.0265	0.00851	J	0.0239	ND	U	0.0255	ND	U	0.0266	ND	U	0.0277
	BENZENE	0.0345	15.4	ND	U	0.00236	ND	U	0.00477	0.00104	J	0.00258	0.000811	J	0.00212	0.00286		0.00191	0.000602	J	0.00204	0.000451	J	0.00213	ND	U	0.00222
	BROMOBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	BROMOFORM	12.1	6,116	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	BROMOMETHANE	0.0385	16.5	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CHLOROBENZENE	0.984	376	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CHLOROETHANE	107	29,800	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CHLOROFORM	0.00918	5.86	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CHLOROMETHANE	0.879	275	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	ETHYLBENZENE	0.26	68.4	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	0.000712	J	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	UJ	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	M,P-XYLENES	NE	NE	ND	U	0.00472	ND	U	0.00954	ND	U	0.00517	0.00067	J-	0.00424	0.00253	J	0.00383	ND	U	0.00409	ND	U	0.00426	ND	U	0.00444
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0059	ND	U	0.0119	ND	U	0.00646	ND	U	0.0053	ND	U	0.00479	ND	U	0.00511	ND	U	0.00532	ND	U	0.00555
	NAPHTHALENE	0.0713	43.0	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	N-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	N-PROPYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	O-XYLENE	3.13	898	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	0.000193	J	0.00212	0.00068	J	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP061			DP061			DP061			DP061			DP061			DP061			DP062			DP062		
		SAMPLE NO		FFOR0337			FFOR0338			FFOR0339			FFOR0340			FFOR0341			FFOR0342			FFOR0343			FFOR0344		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	STYRENE	27.7	7,280	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TOLUENE	25.3	5,270	ND	U	0.00236	0.00191	J	0.00477	ND	U	0.00258	ND	U	0.00212	0.00331		0.00191	ND	U	0.00204	0.00145	J	0.00213	ND	U	0.00222
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	VINYL ACETATE	1.52	2,560	ND	U	0.00236	ND	U	0.00477	ND	UJ	0.00258	ND	UJ	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00236	ND	U	0.00477	ND	U	0.00258	ND	U	0.00212	ND	U	0.00191	ND	U	0.00204	ND	U	0.00213	ND	U	0.00222
	XYLENES	3.13	814	ND	U	0.00708	ND	U	0.0143	ND	U	0.00775	0.000864	J	0.00636	0.00321	J	0.00574	ND	U	0.00613	ND	U	0.00638	ND	U	0.00666
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.61		0.63	21.5		0.66	22.6		0.66	6.81	J-	0.67	6.22		0.66	4.1		0.65	23.8		0.63	11.7		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP062			DP062			DP062			DP063			DP063			DP063			DP063			DP063		
			SAMPLE NO	FFOR0345			FFOR0346			FFOR0347			FFOR0348			FFOR0349			FFOR0350			FFOR0351			FFOR0352		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.22	ND	U	4.51	ND	U	4.26	5.81		4.16	2.88	J	4.41	9.26		4.25	11.3		4.2	3.22	J	4.36
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.9	ND	U	7.01	ND	U	5.41	ND	U	6.21	ND	U	6	ND	U	6.05	ND	U	7.63	ND	U	6.17
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.696	ND	U	0.744	ND	U	0.714	ND	U	0.686	ND	U	0.723	ND	U	0.713	ND	U	0.694	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	0.0465	J	0.347	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	0.0364	J	0.347	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.0158	J	0.343	ND	U	0.362	ND	U	0.356	ND	U	3.47	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	3.47	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.0186	J	0.343	ND	U	0.362	0.0715	J	0.356	0.346	J	3.47	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	3.47	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	0.0432	J	0.356	ND	U	0.347	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.0189	J	0.343	ND	U	0.362	ND	U	0.356	0.0442	J	0.347	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	3.47	ND	U	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.032	J	0.343	0.0238	J	0.362	ND	U	0.356	0.0424	J	0.347	ND	U	0.365
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	0.0419	J	0.356	ND	U	3.47	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP062			DP062			DP062			DP063			DP063			DP063			DP063			DP063		
		SAMPLE NO		FFOR0345			FFOR0346			FFOR0347			FFOR0348			FFOR0349			FFOR0350			FFOR0351			FFOR0352		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.86	ND	U	1.79	ND	U	1.72	ND	U	1.81	ND	U	1.78	ND	U	1.73	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.014	J	0.343	0.0124	J	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.372	ND	U	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.372	ND	U	0.357	0.0225	J	0.343	ND	U	0.362	ND	U	0.356	0.0386	J	0.347	ND	U	0.365
	PYRIDINE	NE	NE	ND	UJ	0.348	ND	UJ	0.372	ND	UJ	0.357	ND	U	0.343	ND	U	0.362	ND	U	0.356	ND	U	0.347	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00141	J	0.00229	0.00187	J	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	0.000664	J	0.00261	ND	U	0.00246	0.00181	J	0.00303
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.00073	J	0.00229	0.00106	J	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	0.00032	J	0.00261	0.000298	J	0.00246	0.000973	J	0.00303
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	1-CHLOROHEXANE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	2-BUTANONE	25.5	37,100	0.00492	J	0.00574	0.00431	J	0.00531	0.00575	J	0.00615	0.000896	J	0.00503	0.00183	J	0.00481	0.00434	J	0.00652	0.00368	J	0.00614	0.00514	J	0.00758
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	2-HEXANONE	NE	NE	ND	U	0.00574	ND	U	0.00531	ND	U	0.00615	0.012		0.00503	ND	U	0.00481	ND	U	0.00652	ND	U	0.00614	ND	U	0.00758
	2-PROPENAL	0.000146	0.404	ND	U	0.0287	ND	U	0.0265	ND	U	0.0307	ND	UJ	0.0251	ND	U	0.0241	ND	U	0.0326	ND	UJ	0.0307	ND	UJ	0.0379
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0287	ND	U	0.0265	ND	U	0.0307	ND	U	0.0251	ND	U	0.0241	ND	U	0.0326	ND	U	0.0307	ND	U	0.0379
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00574	ND	U	0.00531	ND	U	0.00615	ND	U	0.00503	ND	U	0.00481	ND	U	0.00652	ND	U	0.00614	ND	U	0.00758
	ACETONE	77.1	66,600	ND	U	0.0287	ND	U	0.0265	ND	U	0.0307	ND	U	0.0251	ND	U	0.0241	ND	U	0.0326	0.00934	J	0.0307	0.0153	J	0.0379
	BENZENE	0.0345	15.4	0.00363		0.00229	0.00479		0.00212	0.000278	J	0.00246	ND	U	0.00201	ND	U	0.00193	0.00153	J	0.00261	0.00124	J	0.00246	0.00548		0.00303
	BROMOBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	BROMOFORM	12.1	6,116	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	BROMOMETHANE	0.0385	16.5	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CHLOROBENZENE	0.984	376	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CHLOROETHANE	107	29,800	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CHLOROFORM	0.00918	5.86	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CHLOROMETHANE	0.879	275	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	ETHYLBENZENE	0.26	68.4	0.00113	J	0.00229	0.00117	J	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	0.000605	J	0.00261	0.000516	J	0.00246	0.0011	J	0.00303
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	M,P-XYLENES	NE	NE	0.00395	J	0.00459	0.00473		0.00425	ND	U	0.00492	ND	U	0.00402	ND	U	0.00385	0.00157	J	0.00522	0.00121	J	0.00491	0.00435	J	0.00607
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00574	ND	U	0.00531	ND	U	0.00615	ND	U	0.00503	ND	U	0.00481	ND	U	0.00652	ND	U	0.00614	ND	U	0.00758
	NAPHTHALENE	0.0713	43.0	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	N-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	N-PROPYLBENZENE	NE	NE	0.00024	J	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	O-XYLENE	3.13	898	0.0011	J	0.00229	0.00115	J	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	0.0004	J	0.00261	0.000388	J	0.00246	0.00109	J	0.00303

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP062			DP062			DP062			DP063			DP063			DP063			DP063			DP063		
		SAMPLE NO		FFOR0345			FFOR0346			FFOR0347			FFOR0348			FFOR0349			FFOR0350			FFOR0351			FFOR0352		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	STYRENE	27.7	7,280	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TOLUENE	25.3	5,270	0.00602		0.00229	0.00771		0.00212	0.00104	J	0.00246	ND	U	0.00201	ND	U	0.00193	0.00269		0.00261	0.00193	J	0.00246	0.00604		0.00303
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	VINYL ACETATE	1.52	2,560	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00229	ND	U	0.00212	ND	U	0.00246	ND	U	0.00201	ND	U	0.00193	ND	U	0.00261	ND	U	0.00246	ND	U	0.00303
	XYLENES	3.13	814	0.00506	J	0.00688	0.00588	J	0.00637	ND	U	0.00738	ND	U	0.00603	ND	U	0.00578	0.00197	J	0.00783	0.00159	J	0.00737	0.00544	J	0.0091
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.18		0.64	7.36		0.67	5.54		0.65	18.2		0.62	6.96		0.66	5.39		0.65	5.93		0.64	7.19		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP063			DP064			DP064			DP064			DP064			DP064			DP065			DP065		
			SAMPLE NO	FFOR0353			FFOR0354			FFOR0355			FFOR0356			FFOR0357			FFOR0358			FFOR0359			FFOR0360		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.34	J	4.22	13.6		4.13	8.38		4.67	5.68		4.31	4.98		4.5	9.55		4.35	9.95		4.22	9.02		4.27
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.53	ND	U	5.42	ND	U	5.35	ND	U	5.98	ND	U	5.37	ND	U	4.98	ND	U	5.11	ND	U	5.24
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	UJ	1.68	ND	U	1.92	ND	U	1.8	ND	UJ	1.85	ND	UJ	1.77	ND	UJ	1.73	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.697	ND	U	0.671	ND	U	0.77	ND	U	0.719	ND	U	0.742	ND	U	0.706	ND	U	0.694	ND	U	0.708
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	0.0199	J	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.349	0.0119	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	0.0153	J	0.347	0.0403	J	0.354
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.349	0.0359	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	0.23	J	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.349	0.0383	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	0.0177	J	0.353	0.017	J	0.347	**0.211**	J	3.54
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.349	0.0375	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	0.0441	J	0.353	ND	U	0.347	ND	U	3.54
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.349	0.0519	J	0.335	0.218	J	0.385	ND	U	0.359	ND	U	0.371	0.0421	J	0.353	0.0286	J	0.347	ND	U	3.54
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.349	0.0256	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	0.234	J	3.54
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	0.0431	J	0.354
	CHRYSENE	160	147	ND	U	0.349	0.0441	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	0.0217	J	0.347	0.241	J	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	3.54
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.349	0.0783	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	0.0259	J	0.347	0.448		0.354
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.349	0.0378	J	0.335	0.149	J	0.385	ND	U	0.359	ND	U	0.371	0.0429	J	0.353	ND	U	0.347	ND	U	3.54
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP063			DP064			DP064			DP064			DP064			DP064			DP065			DP065		
			SAMPLE NO	FFOR0353			FFOR0354			FFOR0355			FFOR0356			FFOR0357			FFOR0358			FFOR0359			FFOR0360		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.68	ND	U	1.92	ND	U	1.8	ND	U	1.85	ND	U	1.77	ND	U	1.73	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.349	0.0569	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	0.016	J	0.347	0.155	J	0.354
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.349	0.0753	J	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	0.0287	J	0.347	0.34	J	0.354
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.335	ND	U	0.385	ND	U	0.359	ND	U	0.371	ND	U	0.353	ND	U	0.347	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	0.00129	J	0.00219	0.000981	J	0.00198	0.000252	J	0.0022	0.000271	J	0.00314	ND	U	0.00415
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000149	J	0.00233	ND	U	0.115	ND	U	0.00271	0.000668	J	0.00219	0.00053	J	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	1-CHLOROHEXANE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	2-BUTANONE	25.5	37,100	0.00803		0.00582	ND	U	0.288	ND	U	0.00678	0.00433	J	0.00548	0.0075		0.00494	ND	U	0.00551	0.00884		0.00785	0.00749	J	0.0104
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	2-HEXANONE	NE	NE	ND	U	0.00582	ND	U	0.288	ND	U	0.00678	ND	U	0.00548	ND	U	0.00494	ND	U	0.00551	ND	U	0.00785	ND	U	0.0104
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0291	ND	UJ	1.44	ND	UJ	0.0339	ND	UJ	0.0274	ND	UJ	0.0247	ND	UJ	0.0275	ND	U	0.0392	ND	U	0.0519
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0291	ND	U	1.44	ND	U	0.0339	ND	U	0.0274	ND	U	0.0247	ND	U	0.0275	ND	U	0.0392	ND	U	0.0519
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00582	ND	U	0.288	ND	U	0.00678	ND	U	0.00548	ND	U	0.00494	ND	U	0.00551	ND	U	0.00785	ND	U	0.0104
	ACETONE	77.1	66,600	0.0288	J	0.0291	ND	U	1.44	0.0134	J	0.0339	0.0159	J	0.0274	0.0221	J	0.0247	0.0126	J	0.0275	0.0729	J-	0.0392	ND	U	0.0519
	BENZENE	0.0345	15.4	0.00065	J	0.00233	ND	U	0.115	0.000299	J	0.00271	0.00344		0.00219	0.00387		0.00198	ND	U	0.0022	0.000421	J	0.00314	0.000919	J	0.00415
	BROMOBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	BROMOFORM	12.1	6,116	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	BROMOMETHANE	0.0385	16.5	ND	U	0.00233	ND	UJ	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CHLOROBENZENE	0.984	376	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CHLOROETHANE	107	29,800	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CHLOROFORM	0.00918	5.86	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CHLOROMETHANE	0.879	275	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	ETHYLBENZENE	0.26	68.4	0.000424	J	0.00233	ND	U	0.115	ND	U	0.00271	0.000856	J	0.00219	0.000581	J	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	M,P-XYLENES	NE	NE	0.000645	J	0.00466	ND	U	0.231	ND	U	0.00543	0.0034	J	0.00438	0.00266	J	0.00395	0.000464	J	0.00441	0.000589	J	0.00628	ND	U	0.00831
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00582	ND	U	0.288	ND	U	0.00678	ND	U	0.00548	ND	U	0.00494	ND	U	0.00551	ND	U	0.00785	ND	U	0.0104
	NAPHTHALENE	0.0713	43.0	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	N-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	N-PROPYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	O-XYLENE	3.13	898	0.000202	J	0.00233	ND	U	0.115	ND	U	0.00271	0.00109	J	0.00219	0.000735	J	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415

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		LOCATION CODE		DP063			DP064			DP064			DP064			DP064			DP064			DP065			DP065		
		SAMPLE NO		FFOR0353			FFOR0354			FFOR0355			FFOR0356			FFOR0357			FFOR0358			FFOR0359			FFOR0360		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	U	0.00415
	STYRENE	27.7	7,280	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TOLUENE	25.3	5,270	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	0.0048		0.00219	0.00426		0.00198	0.000526	J	0.0022	0.00205	J	0.00314	ND	U	0.00415
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	VINYL ACETATE	1.52	2,560	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	UJ	0.00314	ND	UJ	0.00415
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00233	ND	U	0.115	ND	U	0.00271	ND	U	0.00219	ND	U	0.00198	ND	U	0.0022	ND	U	0.00314	ND	U	0.00415
	XYLENES	3.13	814	0.000846	J	0.00699	ND	U	0.346	ND	U	0.00814	0.0045	J	0.00657	0.00341	J	0.00593	ND	U	0.00661	0.000782	J	0.00941	ND	U	0.0125
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.86		0.64	11.9		0.62	56		0.7	5.41		0.65	7.45		0.67	4.12		0.65	14.4	J-	0.63	10		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP065			DP065			DP065			DP065			DP066			DP066			DP066			DP066		
			SAMPLE NO	FFOR0361			FFOR0362			FFOR0363			FFOR0364			FFOR0365			FFOR0366			FFOR0367			FFOR0368		
			SAMPLE DATE	29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.37		4.23	9.45		4.7	1740		215	1420		216	20.7		8.31	21.1		8.72	20.9		8.57	1690		227
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.1	ND	U	5.37	1370	J	591	2410	J	790	ND	U	7.73	1.19	J	6.95	ND	U	5.16	863		430
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.72	ND	UJ	1.91	ND	UJ	1.78	ND	UJ	1.78	ND	U	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2-CHLOROPHENOL	2.31	391	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.344	ND	U	0.381	6.39	J	0.355	7.77		3.57	ND	U	3.43	ND	U	0.715	ND	U	0.709	11.2		3.74
	2-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	U	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.687	ND	U	0.763	ND	U	0.71	ND	U	0.713	ND	U	6.86	ND	U	1.43	ND	U	1.42	ND	U	0.749
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	U	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	U	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	4-CHLOROANILINE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	UJ	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	UJ	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	ACENAPHTHYLENE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	ANTHRACENE	5,410	17,200	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	0.0304	J	0.715	ND	U	0.709	ND	U	0.374
	BENZENAMINE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.344	ND	U	0.381	0.11	J	0.355	0.101	J	0.357	ND	U	3.43	ND	U	0.715	0.0814	J	0.709	0.0686	J	0.374
	BENZO(A)PYRENE	0.52	0.148	0.0215	J	0.344	**0.189**	J	0.381	0.0578	J	0.355	0.0603	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	**0.31**	J	0.374
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0362	J	0.344	0.166	J	0.381	0.368	J	0.355	0.413	J	0.357	ND	U	3.43	ND	U	0.715	0.226	J	0.709	0.696	J	0.374
	BENZO(GHI)PERYLENE	NE	NE	0.154	J	0.344	0.17	J	0.381	0.118	J	0.355	0.13	J	0.357	ND	U	3.43	ND	U	0.715	0.0249	J	0.709	0.0529	J	0.374
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0167	J	0.344	0.107	J	0.381	0.18	J	0.355	0.144	J	0.357	ND	U	3.43	ND	U	0.715	0.12	J	0.709	0.216	J	0.374
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	CARBAZOLE	NE	NE	ND	U	0.344	ND	U	0.381	0.025	J	0.355	0.0284	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	0.0571	J	0.374
	CHRYSENE	160	147	ND	U	0.344	ND	U	0.381	0.173	J	0.355	0.192	J	0.357	ND	U	3.43	0.0515	J	0.715	0.139	J	0.709	0.47	J	0.374
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.344	ND	U	0.381	0.0353	J	0.355	0.0381	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	DIBENZOFURAN	NE	NE	ND	U	0.344	ND	U	0.381	0.0639	J	0.355	0.0674	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	0.295	J	0.374
	DIETHYL PHTHALATE	193	48,900	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	FLUORANTHENE	2,430	2,290	ND	U	0.344	ND	U	0.381	0.523	J	0.355	0.529	J	0.357	ND	U	3.43	0.0205	J	0.715	0.896		0.709	2.38	J	0.374
	FLUORENE	406	2,290	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.115	J	0.344	0.175	J	0.381	0.123	J	0.355	0.128	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	0.0767	J	0.374
	ISOPHORONE	3.84	5,120	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	NAPHTHALENE	0.0713	43.0	ND	U	0.344	ND	U	0.381	**3.07**	J	0.355	**3.83**	J	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	**5.35**		3.74
	NITROBENZENE	0.0125	53.5	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	3.74
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP065			DP065			DP065			DP065			DP066			DP066			DP066			DP066		
		SAMPLE NO		FFOR0361			FFOR0362			FFOR0363			FFOR0364			FFOR0365			FFOR0366			FFOR0367			FFOR0368		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.91	ND	U	1.78	ND	U	1.78	ND	U	17.1	ND	U	3.57	ND	U	3.55	ND	U	1.87
	PHENANTHRENE	571	1,830	ND	U	0.344	ND	U	0.381	0.301	J	0.355	0.316	J	0.357	ND	U	3.43	ND	U	0.715	0.284	J	0.709	2.14	J	0.374
	PHENOL	99.5	18,300	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
	PYRENE	1,790	1,720	ND	U	0.344	0.2	J	0.381	1.19	J	0.355	1.28	J	0.357	ND	U	3.43	0.0374	J	0.715	0.391	J	0.709	1.34	J	0.374
	PYRIDINE	NE	NE	ND	U	0.344	ND	U	0.381	ND	U	0.355	ND	U	0.357	ND	U	3.43	ND	U	0.715	ND	U	0.709	ND	U	0.374
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	**0.147**	J	0.193
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00176	J	0.00191	0.00183	J	0.00226	28.3		2.58	45.7		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	8.29		0.193
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.0008	J	0.00191	0.00109	J	0.00226	14.8		2.58	20.5		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	4.12		0.193
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	1-CHLOROHEXANE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	2-BUTANONE	25.5	37,100	0.00762		0.00479	0.0204		0.00566	ND	U	6.45	ND	U	5.27	0.0082	J	0.00424	0.0104		0.00529	0.00335	J	0.00483	0.336	J	0.481
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00226	2.72		2.58	2.95		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	2-HEXANONE	NE	NE	ND	U	0.00479	ND	U	0.00566	ND	U	6.45	ND	U	5.27	ND	U	0.00424	ND	U	0.00529	ND	U	0.00483	ND	U	0.481
	2-PROPENAL	0.000146	0.404	ND	U	0.0239	ND	U	0.0283	ND	UJ	32.2	ND	UJ	26.3	ND	UJ	0.0212	ND	U	0.0265	ND	UJ	0.0242	ND	UJ	2.41
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0239	ND	U	0.0283	ND	U	32.2	ND	U	26.3	ND	U	0.0212	ND	U	0.0265	ND	U	0.0242	ND	U	2.41
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00479	0.00207	J	0.00566	ND	U	6.45	ND	U	5.27	ND	U	0.00424	ND	U	0.00529	ND	U	0.00483	ND	U	0.481
	ACETONE	77.1	66,600	ND	U	0.0239	0.129		0.0283	ND	U	32.2	ND	U	26.3	0.0398	J	0.0212	0.0425		0.0265	ND	U	0.0242	0.599	J	2.41
	BENZENE	0.0345	15.4	0.00364		0.00191	0.00562		0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	0.000952	J	0.00212	ND	U	0.00193	ND	U	0.193
	BROMOBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	BROMOFORM	12.1	6,116	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	BROMOMETHANE	0.0385	16.5	ND	U	0.00191	0.00274		0.00226	ND	UJ	2.58	ND	UJ	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CHLOROBENZENE	0.984	376	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CHLOROETHANE	107	29,800	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CHLOROFORM	0.00918	5.86	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CHLOROMETHANE	0.879	275	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	ETHYLBENZENE	0.26	68.4	0.000812	J	0.00191	0.00118	J	0.00226	**0.551**	J	2.58	**3.45**		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	**1.47**		0.193
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00191	ND	U	0.00226	1.99	J	2.58	3.71		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	0.881		0.193
	M,P-XYLENES	NE	NE	0.0039		0.00383	0.00461		0.00453	7.47	J	5.16	16.5	J	4.21	ND	U	0.00339	ND	U	0.00423	ND	U	0.00387	3.31		0.385
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00479	ND	U	0.00566	ND	U	6.45	ND	U	5.27	ND	U	0.00424	ND	U	0.00529	ND	U	0.00483	ND	U	0.481
	NAPHTHALENE	0.0713	43.0	ND	U	0.00191	ND	U	0.00226	**11.5**		2.58	**11.9**		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	**6.02**		0.193
	N-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	3.74	J	2.58	9.09		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	5.09		0.193
	N-PROPYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	1.86	J	2.58	5.64	J	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	1.87		0.193
	O-XYLENE	3.13	898	0.00126	J	0.00191	0.00125	J	0.00226	**5.29**	J	2.58	**9.94**	J	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	2.3		0.193

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP065			DP065			DP065			DP065			DP066			DP066			DP066			DP066		
		SAMPLE NO		FFOR0361			FFOR0362			FFOR0363			FFOR0364			FFOR0365			FFOR0366			FFOR0367			FFOR0368		
		SAMPLE DATE		29-Jun-11			29-Jun-11			29-Jun-11			29-Jun-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00226	17.2		2.58	21.5		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	1.75		0.193
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	2.29	J	2.58	6.36		2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	1.91		0.193
	STYRENE	27.7	7,280	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TOLUENE	25.3	5,270	0.00583		0.00191	0.00739		0.00226	0.659	J	2.58	1.61	J	2.11	ND	U	0.0017	0.0012	J	0.00212	ND	U	0.00193	0.404		0.193
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00191	ND	UJ	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00191	ND	U	0.00226	ND	U	2.58	ND	U	2.11	ND	U	0.0017	ND	U	0.00212	ND	U	0.00193	ND	U	0.193
	XYLENES	3.13	814	0.00516	J	0.00574	0.00584	J	0.00679	**12.8**	J	7.74	**26.5**	J	6.32	ND	U	0.00509	ND	U	0.00635	ND	U	0.0058	**5.61**		0.578
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.68		0.64	10.8		0.71	4.86		0.65	5.23		0.64	42.5		0.62	78.2		0.66	8.72		0.64	9.47		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP066			DP067			DP067			DP067			DP067			DP067			DP067			DP068		
		SAMPLE NO		FFOR0369			FFOR0370			FFOR0371			FFOR0372			FFOR0373			FFOR0374			FFOR0375			FFOR0376		
		SAMPLE DATE		6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1060		214	18.1		4.1	11.1		4.38	9.43	J	4.23	18.7	J	4.28	1150		236	1500		215	10		4.12
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1640		477	ND	U	3.92	ND	U	6.22	ND	U	5.62	ND	U	4.48	552		456	4010		777	ND	U	5.8
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2-METHYLNAPHTHALENE	NE	NE	6		3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	2.6	J	3.83	7.2		3.49	ND	U	0.34
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.695	ND	U	0.665	ND	U	0.722	ND	U	0.698	ND	U	0.708	ND	U	0.766	ND	U	0.699	ND	U	0.68
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	4-CHLOROANILINE	NE	NE	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.332	ND	U	0.361	0.021	J	0.349	0.0146	J	0.354	0.0702	J	0.383	0.127	J	0.349	ND	U	0.34
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	ANTHRACENE	5,410	17,200	ND	U	0.348	0.0211	J	0.332	ND	U	0.361	0.0723	J	0.349	0.0838	J	0.354	0.0661	J	0.383	0.202	J	0.349	0.012	J	0.34
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	0.0549	J	0.332	0.0372	J	0.361	0.172	J	0.349	0.212	J	0.354	0.272	J	0.383	0.363	J	0.349	0.0511	J	0.34
	BENZO(A)PYRENE	0.52	0.148	0.0344	J	0.348	0.0509	J	0.332	0.0334	J	0.361	**0.181**	J	0.349	**0.24**	J	0.354	0.125	J	0.383	**0.215**	J	0.349	0.0557	J	0.34
	BENZO(B)FLUORANTHENE	5.31	1.48	0.061	J	0.348	0.0717	J	0.332	0.0479	J	0.361	0.2	J	0.349	0.308	J	0.354	0.49	J	0.383	0.348	J	0.349	0.0701	J	0.34
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	0.0532	J	0.332	0.0245	J	0.361	0.165	J	0.349	0.183	J	0.354	0.0848	J	0.383	0.0827	J	0.349	0.0398	J	0.34
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0259	J	0.348	0.0367	J	0.332	0.0216	J	0.361	0.0931	J	0.349	0.0948	J	0.354	0.197	J	0.383	0.157	J	0.349	0.0324	J	0.34
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	0.0407	J	0.349	0.0771	J	0.354	0.0306	J	0.383	0.117	J	0.349	ND	U	0.34
	CHRYSENE	160	147	0.0631	J	0.348	0.0746	J	0.332	0.0461	J	0.361	0.185	J	0.349	0.226	J	0.354	0.291	J	0.383	0.265	J	0.349	0.0648	J	0.34
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	0.0281	J	0.383	0.0303	J	0.349	ND	U	0.34
	DIBENZOFURAN	NE	NE	0.0605	J	0.348	ND	U	0.332	ND	U	0.361	0.0122	J	0.349	ND	U	0.354	0.0796	J	0.383	0.0868	J	0.349	ND	U	0.34
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	FLUORANTHENE	2,430	2,290	0.273	J	0.348	0.108	J	0.332	0.0541	J	0.361	0.262	J	0.349	0.41		0.354	0.842	J	0.383	0.864	J	0.349	0.101	J	0.34
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.332	ND	U	0.361	0.0183	J	0.349	0.021	J	0.354	0.0549	J	0.383	0.124	J	0.349	ND	U	0.34
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	0.0468	J	0.332	ND	U	0.361	0.174	J	0.349	0.201	J	0.354	0.113	J	0.383	0.1	J	0.349	0.0404	J	0.34
	ISOPHORONE	3.84	5,120	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	NAPHTHALENE	0.0713	43.0	**4.32**		3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	**0.605**	J	3.83	**4.99**		3.49	ND	U	0.34
	NITROBENZENE	0.0125	53.5	ND	U	3.48	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	3.83	ND	U	3.49	ND	U	0.34
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP066			DP067			DP067			DP067			DP067			DP067			DP067			DP068		
		SAMPLE NO		FFOR0369			FFOR0370			FFOR0371			FFOR0372			FFOR0373			FFOR0374			FFOR0375			FFOR0376		
		SAMPLE DATE		6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.66	ND	U	1.8	ND	U	1.74	ND	U	1.77	ND	U	1.91	ND	U	1.75	ND	U	1.7
	PHENANTHRENE	571	1,830	0.289	J	0.348	0.0825	J	0.332	0.0313	J	0.361	0.22	J	0.349	0.25	J	0.354	0.462	J	0.383	0.756	J	0.349	0.0654	J	0.34
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
	PYRENE	1,790	1,720	0.107	J	0.348	0.113	J	0.332	0.0593	J	0.361	0.247	J	0.349	0.38		0.354	0.892	J	0.383	0.846	J	0.349	0.0874	J	0.34
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.332	ND	U	0.361	ND	U	0.349	ND	U	0.354	ND	U	0.383	ND	U	0.349	ND	U	0.34
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	1.3	J	1.86	ND	U	0.00212
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	**0.366**	J	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2,4-TRIMETHYLBENZENE	NE	NE	30.2		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	1.57		0.956	119		1.86	ND	U	0.00212
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,3,5-TRIMETHYLBENZENE	NE	NE	11		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	7.04		0.956	39.4		1.86	ND	U	0.00212
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	1-CHLOROHEXANE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	2-BUTANONE	25.5	37,100	0.756	J	1.11	ND	U	0.00604	0.00567	J	0.00677	ND	U	0.00465	ND	U	0.00433	ND	U	2.39	ND	U	4.65	ND	U	0.00529
	2-CHLOROTOLUENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	2-HEXANONE	NE	NE	ND	U	1.11	ND	U	0.00604	ND	U	0.00677	ND	U	0.00465	ND	U	0.00433	ND	U	2.39	25.7		4.65	ND	U	0.00529
	2-PROPENAL	0.000146	0.404	ND	UJ	5.54	ND	UJ	0.0302	ND	U	0.0338	ND	UJ	0.0232	ND	UJ	0.0217	ND	UJ	11.9	ND	UJ	23.2	ND	UJ	0.0264
	2-PROPENENITRILE	0.0016969	4.55	ND	U	5.54	ND	UJ	0.0302	ND	U	0.0338	ND	UJ	0.0232	ND	UJ	0.0217	ND	U	11.9	ND	U	23.2	ND	UJ	0.0264
	4-CHLOROTOLUENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	1.11	ND	U	0.00604	ND	U	0.00677	ND	U	0.00465	ND	U	0.00433	5.56		2.39	ND	U	4.65	ND	U	0.00529
	ACETONE	77.1	66,600	0.615	J	5.54	0.0295	J	0.0302	0.0219	J	0.0338	0.0185	J	0.0232	0.00747	J	0.0217	ND	U	11.9	ND	U	23.2	0.0123	J	0.0264
	BENZENE	0.0345	15.4	ND	U	0.443	ND	U	0.00242	0.000985	J	0.00271	0.00126	J	0.00186	0.000966	J	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	BROMOBENZENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	BROMOFORM	12.1	6,116	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	BROMOMETHANE	0.0385	16.5	ND	U	0.443	ND	UJ	0.00242	ND	U	0.00271	ND	UJ	0.00186	ND	UJ	0.00173	ND	U	0.956	ND	U	1.86	ND	UJ	0.00212
	CARBON DISULFIDE	5.65	1,530	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CHLOROBENZENE	0.984	376	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CHLOROETHANE	107	29,800	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CHLOROFORM	0.00918	5.86	ND	U	0.443	ND	U	0.00242	0.000939	J	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CHLOROMETHANE	0.879	275	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	ETHYLBENZENE	0.26	68.4	**14.4**		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	**94.4**		1.86	ND	U	0.00212
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	ISOPROPYLBENZENE	17.3	2,430	5.55		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	0.556	J	0.956	**32.5**		1.86	ND	U	0.00212
	M,P-XYLENES	NE	NE	24.3		0.887	ND	U	0.00483	ND	U	0.00542	ND	U	0.00372	ND	U	0.00347	2.04		1.91	158		3.72	ND	U	0.00423
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	METHYLENE CHLORIDE	0.824	409	ND	U	1.11	ND	U	0.00604	ND	U	0.00677	ND	U	0.00465	ND	U	0.00433	ND	U	2.39	ND	U	4.65	ND	U	0.00529
	NAPHTHALENE	0.0713	43.0	**7.4**		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	**3.1**		0.956	**11.5**		1.86	ND	U	0.00212
	N-BUTYLBENZENE	NE	NE	11.3		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	31		1.86	ND	U	0.00212
	N-PROPYLBENZENE	NE	NE	12.1		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	61.1		1.86	ND	U	0.00212
	O-XYLENE	3.13	898	**13.2**		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	2.11		0.956	**79**		1.86	ND	U	0.00212

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP066			DP067			DP067			DP067			DP067			DP067			DP067			DP068		
		SAMPLE NO		FFOR0369			FFOR0370			FFOR0371			FFOR0372			FFOR0373			FFOR0374			FFOR0375			FFOR0376		
		SAMPLE DATE		6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	3.57		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	1.6		0.956	12.4		1.86	ND	U	0.00212
	SEC-BUTYLBENZENE	NE	NE	6.85		0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	22.9		1.86	ND	U	0.00212
	STYRENE	27.7	7,280	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TOLUENE	25.3	5,270	5.23		0.443	ND	U	0.00242	0.000486	J	0.00271	0.00158	J	0.00186	0.00165	J	0.00173	ND	U	0.956	18.6		1.86	ND	U	0.00212
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	VINYL ACETATE	1.52	2,560	ND	U	0.443	ND	UJ	0.00242	ND	U	0.00271	ND	UJ	0.00186	ND	UJ	0.00173	ND	U	0.956	ND	U	1.86	ND	UJ	0.00212
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.443	ND	U	0.00242	ND	U	0.00271	ND	U	0.00186	ND	U	0.00173	ND	U	0.956	ND	U	1.86	ND	U	0.00212
	XYLENES	3.13	814	**37.6**		1.33	ND	U	0.00725	ND	U	0.00812	ND	U	0.00558	ND	U	0.0052	**4.15**		2.87	**237**		5.58	ND	U	0.00635
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.09		0.64	54.7		0.61	47.8		1.31	36.8		0.64	34		0.64	12.1		0.7	9.74		0.65	15.7		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP068			DP068			DP068			DP068			DP069			DP069			DP069			DP069		
			SAMPLE NO	FFOR0377			FFOR0378			FFOR0379			FFOR0380			FFOR0381			FFOR0382			FFOR0383			FFOR0384		
			SAMPLE DATE	6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.57	J	4.46	ND	U	4.34	19.4		4.58	2960		428	27.8		4.08	9.48		4.31	791		85	1130		224
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.17	ND	U	4.78	ND	U	5.2	11300		555	ND	U	7.68	ND	U	4.36	42.3	J+	4.65	1620		496
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	UJ	0.372
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2-CHLOROPHENOL	2.31	391	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.362	0.014	J	0.352	ND	U	0.378	9.05		3.53	ND	U	0.677	ND	U	0.356	0.839	J+	0.356	4.12	J	0.372
	2-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.724	ND	U	0.704	ND	U	0.756	ND	U	0.706	ND	U	1.35	ND	U	0.711	ND	U	0.713	ND	U	0.744
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	4-CHLOROANILINE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	UJ	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.362	0.0231	J	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	4.01	J+	0.356	ND	U	0.372
	ACENAPHTHYLENE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	ANTHRACENE	5,410	17,200	ND	U	0.362	0.0266	J	0.352	ND	U	0.378	0.0924	J	0.353	0.0473	J	0.677	ND	U	0.356	5.28	J+	0.356	ND	U	0.372
	BENZENAMINE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.362	0.0778	J	0.352	ND	U	0.378	0.125	J	0.353	0.0634	J	0.677	ND	U	0.356	**9.78**	J+	3.56	0.03	J	0.372
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	0.0744	J	0.352	ND	U	0.378	0.0698	J	0.353	0.063	J	0.677	ND	U	0.356	**3.11**	J+	0.356	ND	U	0.372
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.362	0.0974	J	0.352	ND	U	0.378	0.108	J	0.353	0.0844	J	0.677	ND	U	0.356	**7.63**	J+	3.56	0.0945	J	0.372
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.362	0.0464	J	0.352	ND	U	0.378	0.0209	J	0.353	0.0446	J	0.677	0.0135	J	0.356	0.94	J	0.356	0.0129	J	0.372
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.362	0.0418	J	0.352	ND	U	0.378	0.0495	J	0.353	0.0526	J	0.677	ND	U	0.356	2.97	J-	0.356	0.0216	J	0.372
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	CARBAZOLE	NE	NE	ND	U	0.362	0.0237	J	0.352	ND	U	0.378	0.0692	J	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	CHRYSENE	160	147	ND	U	0.362	0.0932	J	0.352	ND	U	0.378	0.0848	J	0.353	0.0803	J	0.677	0.0192	J	0.356	5.36	J-	0.356	0.106	J	0.372
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	DIBENZOFURAN	NE	NE	ND	U	0.362	0.0183	J	0.352	ND	U	0.378	0.0501	J	0.353	ND	U	0.677	ND	U	0.356	2.87	J-	0.356	0.0616	J	0.372
	DIETHYL PHTHALATE	193	48,900	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	FLUORANTHENE	2,430	2,290	ND	U	0.362	0.178	J	0.352	ND	U	0.378	0.308	J	0.353	0.137	J	0.677	0.018	J	0.356	35.1		3.56	0.32	J	0.372
	FLUORENE	406	2,290	ND	U	0.362	ND	U	0.352	ND	U	0.378	0.0641	J	0.353	ND	U	0.677	ND	U	0.356	3.11	J	0.356	ND	U	0.372
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.362	0.0494	J	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	1.45	J	0.356	ND	U	0.372
	ISOPHORONE	3.84	5,120	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	NAPHTHALENE	0.0713	43.0	ND	U	0.362	0.0552	J	0.352	ND	U	0.378	**6.54**		3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	**2.86**	J	0.372
	NITROBENZENE	0.0125	53.5	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	3.53	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP068			DP068			DP068			DP068			DP069			DP069			DP069			DP069		
		SAMPLE NO		FFOR0377			FFOR0378			FFOR0379			FFOR0380			FFOR0381			FFOR0382			FFOR0383			FFOR0384		
		SAMPLE DATE		6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	UJ	0.356	ND	U	0.372
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.76	ND	U	1.89	ND	U	1.76	ND	U	3.38	ND	U	1.78	ND	U	1.78	ND	U	1.86
	PHENANTHRENE	571	1,830	ND	U	0.362	0.18	J	0.352	ND	U	0.378	0.285	J	0.353	0.0437	J	0.677	0.0163	J	0.356	29.2		3.56	0.258	J	0.372
	PHENOL	99.5	18,300	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
	PYRENE	1,790	1,720	ND	U	0.362	0.151	J	0.352	ND	U	0.378	0.335	J	0.353	0.0759	J	0.677	0.0358	J	0.356	25.5		3.56	0.11	J	0.372
	PYRIDINE	NE	NE	ND	U	0.362	ND	U	0.352	ND	U	0.378	ND	U	0.353	ND	U	0.677	ND	U	0.356	ND	U	0.356	ND	U	0.372
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	201		3.44	ND	U	0.00289	ND	U	0.00328	0.847	J	1.39	31.5		1.01
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	70.9		3.44	ND	U	0.00289	ND	U	0.00328	2.58		1.39	21.2		1.01
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	1-CHLOROHEXANE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	2-BUTANONE	25.5	37,100	ND	U	0.00477	ND	U	0.00444	1.01		0.262	ND	U	8.6	ND	U	0.00721	ND	U	0.00819	ND	U	3.47	ND	U	2.53
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	2-HEXANONE	NE	NE	ND	U	0.00477	ND	U	0.00444	ND	U	0.262	ND	U	8.6	ND	U	0.00721	ND	U	0.00819	ND	U	3.47	ND	U	2.53
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0238	ND	UJ	0.0222	ND	UJ	1.31	ND	UJ	43	ND	UJ	0.0361	ND	UJ	0.041	ND	UJ	17.3	ND	UJ	12.7
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0238	ND	UJ	0.0222	ND	U	1.31	ND	U	43	ND	UJ	0.0361	ND	UJ	0.041	ND	U	17.3	ND	U	12.7
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00477	ND	U	0.00444	ND	U	0.262	ND	U	8.6	ND	U	0.00721	ND	U	0.00819	ND	U	3.47	ND	U	2.53
	ACETONE	77.1	66,600	0.00533	J	0.0238	0.0112	J	0.0222	2.33		1.31	ND	U	43	0.0492		0.0361	0.0161	J	0.041	ND	U	17.3	1.47	J	12.7
	BENZENE	0.0345	15.4	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	**0.278**	J	1.01
	BROMOBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	BROMOFORM	12.1	6,116	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00191	ND	UJ	0.00178	ND	U	0.105	ND	U	3.44	ND	UJ	0.00289	ND	UJ	0.00328	ND	U	1.39	ND	U	1.01
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CHLOROBENZENE	0.984	376	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CHLOROETHANE	107	29,800	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CHLOROFORM	0.00918	5.86	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CHLOROMETHANE	0.879	275	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	ETHYLBENZENE	0.26	68.4	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	**194**		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	**3.75**		1.01
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	**49.7**		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	2.55		1.01
	M,P-XYLENES	NE	NE	ND	U	0.00381	ND	U	0.00355	ND	U	0.21	378		6.88	ND	U	0.00577	ND	U	0.00655	ND	U	2.78	15.7		2.02
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00477	ND	U	0.00444	ND	U	0.262	ND	U	8.6	ND	U	0.00721	ND	U	0.00819	ND	U	3.47	ND	U	2.53
	NAPHTHALENE	0.0713	43.0	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	**15.6**		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	**8.7**		1.01
	N-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	37.2		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	7.64		1.01
	N-PROPYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	81.6		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	4.22		1.01
	O-XYLENE	3.13	898	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	**175**		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	**10.4**		1.01

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP068			DP068			DP068			DP068			DP069			DP069			DP069			DP069		
			SAMPLE NO	FFOR0377			FFOR0378			FFOR0379			FFOR0380			FFOR0381			FFOR0382			FFOR0383			FFOR0384		
			SAMPLE DATE	6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	51		3.44	ND	U	0.00289	ND	U	0.00328	1.25	J	1.39	6.43		1.01
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	28.1		3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	6.25		1.01
	STYRENE	27.7	7,280	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TOLUENE	25.3	5,270	ND	U	0.00191	0.00112	J	0.00178	ND	U	0.105	**30.2**		3.44	0.00377		0.00289	ND	U	0.00328	ND	U	1.39	1.14		1.01
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00191	ND	UJ	0.00178	ND	U	0.105	ND	U	3.44	ND	UJ	0.00289	ND	UJ	0.00328	ND	UJ	1.39	ND	U	1.01
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00191	ND	U	0.00178	ND	U	0.105	ND	U	3.44	ND	U	0.00289	ND	U	0.00328	ND	U	1.39	ND	U	1.01
	XYLENES	3.13	814	ND	U	0.00572	ND	U	0.00533	ND	U	0.315	**552**		10.3	ND	U	0.00866	ND	U	0.00983	ND	U	4.16	**26**		3.04
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	42.5		0.67	49.6		0.65	93		0.7	6.5		0.65	43.5		0.62	46		0.65	10.5		0.65	12.4		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP069			DP069			DP070			DP070			DP070			DP070			DP070			DP070		
			SAMPLE NO	FFOR0385			FFOR0386			FFOR0387			FFOR0388			FFOR0389			FFOR0390			FFOR0391			FFOR0392		
			SAMPLE DATE	6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1500		217	1030		212	35.3		4.15	51.8		4.19	12.2		4.34	8.7		4.17	58		4.5	1850		214
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	5000		560	4670		517	ND	U	3.86	ND	U	5.54	ND	U	4.16	ND	U	4.96	4.25	J	4.87	2070		524
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	UJ	0.359	ND	UJ	0.355	ND	UJ	0.339	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.344	ND	UJ	0.376	ND	UJ	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	4.73	J	0.359	5.54	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	4.49	J	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.709	ND	U	0.679	ND	U	0.692	ND	U	0.715	ND	U	0.688	ND	U	0.753	ND	U	0.701
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	UJ	1.79	ND	UJ	1.77	ND	UJ	1.7	ND	UJ	1.73	ND	UJ	1.79	ND	UJ	1.72	ND	UJ	1.88	ND	UJ	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	ACENAPHTHENE	338	3,440	0.375	J	0.359	0.162	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.355	0.0269	J	0.339	0.0265	J	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	ANTHRACENE	5,410	17,200	0.552		0.359	0.23	J	0.355	0.0798	J	0.339	0.0758	J	0.346	0.0171	J	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	1.11	J	0.359	0.521	J	0.355	ND	U	0.339	0.0276	J	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BENZO(A)PYRENE	0.52	0.148	**0.369**	J	0.359	0.135	J	0.355	0.0231	J	0.339	0.0319	J	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	0.945	J	0.359	0.48	J	0.355	0.0369	J	0.339	0.0624	J	0.346	ND	U	0.358	0.117	J	0.344	ND	U	0.376	ND	U	0.351
	BENZO(GHI)PERYLENE	NE	NE	0.203	J	0.359	0.097	J	0.355	0.0391	J	0.339	0.0409	J	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	0.387	J	0.359	0.163	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	0.0335	J	0.344	ND	U	0.376	ND	U	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	0.03	J	0.355	ND	U	0.339	ND	U	0.346	0.0225	J	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	CARBAZOLE	NE	NE	0.0434	J	0.359	0.0312	J	0.355	0.0248	J	0.339	0.0304	J	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	CHRYSENE	160	147	0.585	J	0.359	0.265	J	0.355	0.0302	J	0.339	0.0389	J	0.346	ND	U	0.358	0.0769	J	0.344	ND	U	0.376	ND	U	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0689	J	0.359	0.0503	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	DIBENZOFURAN	NE	NE	0.313	J	0.359	0.149	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	FLUORANTHENE	2,430	2,290	4.22	J	0.359	1.91	J	0.355	0.00898	J	0.339	0.0385	J	0.346	ND	U	0.358	0.709		0.344	ND	U	0.376	0.0491	J	0.351
	FLUORENE	406	2,290	0.33	J	0.359	0.15	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.218	J	0.359	0.104	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	**2.55**	J	0.359	**3.05**	J	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	**3.97**	J	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP069			DP069			DP070			DP070			DP070			DP070			DP070			DP070		
			SAMPLE NO	FFOR0385			FFOR0386			FFOR0387			FFOR0388			FFOR0389			FFOR0390			FFOR0391			FFOR0392		
			SAMPLE DATE	6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.77	ND	U	1.7	ND	U	1.73	ND	U	1.79	ND	U	1.72	ND	U	1.88	ND	U	1.75
	PHENANTHRENE	571	1,830	3.11	J	0.359	1.39	J	0.355	ND	U	0.339	0.0111	J	0.346	ND	U	0.358	0.319	J	0.344	ND	U	0.376	0.0832	J	0.351
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
	PYRENE	1,790	1,720	2.83	J	0.359	1.31	J	0.355	0.0203	J	0.339	0.04	J	0.346	ND	U	0.358	0.285	J	0.344	ND	U	0.376	ND	U	0.351
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.355	ND	U	0.339	ND	U	0.346	ND	U	0.358	ND	U	0.344	ND	U	0.376	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1-DICHLOROETHENE	2.32	449	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,1-DICHLOROPROPENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	**1.9**		1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2,4-TRIMETHYLBENZENE	NE	NE	148		1.5	95.8		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.0246		0.00227	32.6		0.914
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,3,5-TRIMETHYLBENZENE	NE	NE	55.3		1.5	38.7		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.011		0.00227	14.4		0.914
	1,3-DICHLOROBENZENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,3-DICHLOROPROPANE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	1-CHLOROHEXANE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	2,2-DICHLOROPROPANE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	2-BUTANONE	25.5	37,100	ND	U	3.74	ND	U	4.75	0.00544	J	0.00392	0.0104	J	0.00539	0.00545		0.0049	0.0219		0.00449	0.0328		0.00567	ND	U	2.29
	2-CHLOROTOLUENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	2-HEXANONE	NE	NE	ND	U	3.74	ND	U	4.75	ND	U	0.00392	ND	U	0.00539	ND	U	0.0049	ND	U	0.00449	ND	U	0.00567	ND	U	2.29
	2-PROPENAL	0.000146	0.404	ND	UJ	18.7	ND	UJ	23.7	ND	U	0.0196	ND	U	0.027	ND	U	0.0245	ND	U	0.0224	ND	U	0.0283	ND	UJ	11.4
	2-PROPENENITRILE	0.0016969	4.55	ND	U	18.7	ND	U	23.7	ND	U	0.0196	ND	U	0.027	ND	U	0.0245	ND	U	0.0224	ND	U	0.0283	ND	U	11.4
	4-CHLOROTOLUENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	3.74	ND	U	4.75	ND	U	0.00392	ND	U	0.00539	ND	U	0.0049	0.00971		0.00449	0.0196		0.00567	ND	U	2.29
	ACETONE	77.1	66,600	ND	U	18.7	2.63	J	23.7	0.0303	J	0.0196	0.0566	J	0.027	0.016	J	0.0245	0.073		0.0224	0.137		0.0283	3.37	J	11.4
	BENZENE	0.0345	15.4	**0.505**	J	1.5	**0.387**	J	1.9	0.000305	J	0.00157	0.000448	J	0.00216	0.000318	J	0.00196	0.000345	J	0.0018	0.00219	J	0.00227	**0.465**	J	0.914
	BROMOBENZENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	BROMOCHLOROMETHANE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	BROMOFORM	12.1	6,116	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	BROMOMETHANE	0.0385	16.5	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CARBON DISULFIDE	5.65	1,530	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CHLOROBENZENE	0.984	376	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CHLOROETHANE	107	29,800	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CHLOROFORM	0.00918	5.86	ND	U	1.5	ND	U	1.9	0.000564	J	0.00157	0.000733	J	0.00216	0.000658	J	0.00196	0.000589	J	0.0018	0.000749	J	0.00227	ND	U	0.914
	CHLOROMETHANE	0.879	275	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	DIBROMOMETHANE	0.0342	51.6	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	ETHYLBENZENE	0.26	68.4	**64.6**		1.5	**45.7**		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.0085		0.00227	**15.5**		0.914
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	ISOPROPYLBENZENE	17.3	2,430	**28.8**		1.5	**19.4**		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.00377		0.00227	6.28		0.914
	M,P-XYLENES	NE	NE	142		2.99	96.9		3.8	ND	U	0.00314	ND	U	0.00431	ND	U	0.00392	ND	U	0.00359	0.0193		0.00453	32.4		1.83
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	METHYLENE CHLORIDE	0.824	409	ND	U	3.74	ND	U	4.75	ND	U	0.00392	ND	U	0.00539	ND	U	0.0049	ND	U	0.00449	ND	U	0.00567	ND	U	2.29
	NAPHTHALENE	0.0713	43.0	**16.2**		1.5	**12.2**		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	0.00113	J	0.0018	0.0389		0.00227	**12.3**		0.914
	N-BUTYLBENZENE	NE	NE	40.8		1.5	26.8		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.00777		0.00227	12.4		0.914
	N-PROPYLBENZENE	NE	NE	61.3		1.5	39.5		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.0068		0.00227	15.5		0.914
	O-XYLENE	3.13	898	**75.2**		1.5	**50**		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.0132		0.00227	**16.3**		0.914

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP069			DP069			DP070			DP070			DP070			DP070			DP070			DP070		
		SAMPLE NO		FFOR0385			FFOR0386			FFOR0387			FFOR0388			FFOR0389			FFOR0390			FFOR0391			FFOR0392		
		SAMPLE DATE		6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11			6-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	15.4		1.5	11.4		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.00318		0.00227	2.8		0.914
	SEC-BUTYLBENZENE	NE	NE	31		1.5	20.5		1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.0061		0.00227	9.31		0.914
	STYRENE	27.7	7,280	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	0.00198	J	0.00227	ND	U	0.914
	TERT-BUTYLBENZENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	TETRACHLOROETHENE	0.00861	7.02	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	TOLUENE	25.3	5,270	17.9		1.5	12.6		1.9	0.000475	J	0.00157	0.000544	J	0.00216	0.000486	J	0.00196	0.00055	J	0.0018	0.0085		0.00227	7.34		0.914
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	TRICHLOROETHENE	0.0211	8.77	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	VINYL ACETATE	1.52	2,560	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	VINYL CHLORIDE	0.00108	0.728	ND	U	1.5	ND	U	1.9	ND	U	0.00157	ND	U	0.00216	ND	U	0.00196	ND	U	0.0018	ND	U	0.00227	ND	U	0.914
	XYLENES	3.13	814	**217**		4.49	**147**		5.69	ND	U	0.00471	ND	U	0.00647	ND	U	0.00588	ND	U	0.00539	0.0325		0.0068	**48.7**		2.74
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.43		0.65	5.87		0.64	31.1	J	0.62	58.2	J	0.63	52.7		0.65	5.32		0.64	8.6		0.69	5.44		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP071			DP071			DP071			DP071			DP071			DP071			DP072			DP072		
			SAMPLE NO	FFOR0393			FFOR0394-R			FFOR0395			FFOR0396			FFOR0397			FFOR0398			FFOR0399			FFOR0400		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	75.3		8.42	53.6	J	4.39	24.9	J	4.48	15		4.25	524		46.4	216		42.5	7.86		4.11	3.03	J	4.19
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	20.7		4.78	ND	U	8.23	ND	U	8.27	ND	U	5.67	937	J+	121	2540		460	10.4	J	64.1	ND	U	4.49
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.8	ND	U	1.85	ND	U	1.75	ND	U	1.91	ND	U	1.75	ND	U	1.71	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	ND	U	0.361	0.0182	J	0.37	ND	U	0.35	3.34	J	0.383	6.07		3.5	ND	U	0.341	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.85	ND	U	1.75	ND	U	1.91	ND	U	1.75	ND	U	1.71	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.694	ND	U	0.721	ND	U	0.74	ND	U	0.7	ND	U	0.765	ND	U	0.701	ND	U	0.682	ND	U	0.703
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.85	ND	U	1.75	ND	U	1.91	ND	U	1.75	ND	U	1.71	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.8	ND	U	1.85	ND	U	1.75	ND	U	1.91	ND	U	1.75	ND	U	1.71	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	UJ	1.74	ND	U	1.8	ND	UJ	1.85	ND	UJ	1.75	ND	UJ	1.91	ND	UJ	1.75	ND	U	1.71	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	UJ	1.74	ND	U	1.8	ND	UJ	1.85	ND	UJ	1.75	ND	UJ	1.91	ND	UJ	1.75	ND	U	1.71	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	0.683	J	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	0.025	J	0.347	0.118	J	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	ANTHRACENE	5,410	17,200	0.0871	J	0.347	0.405		0.361	0.0222	J	0.37	0.0235	J	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.347	ND	UJ	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.347	0.0425	J	0.361	ND	U	0.37	0.0543	J	0.35	**1.6**	J	0.383	ND	U	0.35	0.0418	J	0.341	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	0.0199	J	0.347	0.0712	J	0.361	0.0239	J	0.37	ND	U	0.35	**0.335**	J	0.383	ND	U	0.35	0.0504	J	0.341	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	0.117	J	0.361	0.0427	J	0.37	0.104	J	0.35	**2.86**	J	0.383	ND	U	0.35	0.0692	J	0.341	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	0.0904	J	0.347	0.158	J	0.361	0.0568	J	0.37	0.0266	J	0.35	0.399	J	0.383	ND	U	0.35	0.042	J	0.341	0.0763	J	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.347	0.034	J	0.361	ND	U	0.37	0.0444	J	0.35	0.876	J	0.383	ND	U	0.35	0.0328	J	0.341	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	0.0222	J	0.341	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	CARBAZOLE	NE	NE	0.052	J	0.347	0.124	J	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	CHRYSENE	160	147	0.0232	J	0.347	0.1	J	0.361	ND	U	0.37	0.0662	J	0.35	1.47	J	0.383	ND	U	0.35	0.055	J	0.341	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	0.575	J	0.383	0.0308	J	0.35	ND	U	0.341	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	FLUORANTHENE	2,430	2,290	0.00948	J	0.347	0.0355	J	0.361	0.00953	J	0.37	0.35		0.35	7.07	J	0.383	0.0602	J	0.35	0.0944	J	0.341	0.00915	J	0.352
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	0.288	J	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.347	0.0858	J	0.361	0.0539	J	0.37	ND	U	0.35	0.565	J	0.383	ND	U	0.35	0.0351	J	0.341	0.0913	J	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	**6.91**	J	0.35	ND	U	0.341	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352

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			LOCATION CODE	DP071			DP071			DP071			DP071			DP071			DP071			DP072			DP072		
			SAMPLE NO	FFOR0393			FFOR0394-R			FFOR0395			FFOR0396			FFOR0397			FFOR0398			FFOR0399			FFOR0400		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.8	ND	U	1.85	ND	U	1.75	ND	U	1.91	ND	U	1.75	ND	U	1.71	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.347	0.027	J	0.361	ND	U	0.37	0.206	J	0.35	3.76	J	0.383	0.0667	J	0.35	0.0553	J	0.341	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.347	0.0416	J	0.361	ND	U	0.37	0.252	J	0.35	7.73	J	0.383	ND	U	0.35	0.0676	J	0.341	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.361	ND	U	0.37	ND	U	0.35	ND	U	0.383	ND	U	0.35	ND	U	0.341	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0021	ND	UJ	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	1.54		1.03	41.7		0.924	ND	U	0.00273	ND	U	0.00188
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0021	ND	UJ	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2-DICHLOROETHANE	0.00711	7.89	ND	UJ	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	3.63		1.03	16.5		0.924	ND	U	0.00273	ND	U	0.00188
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	1-CHLOROHEXANE	NE	NE	ND	U	0.0021	ND	UJ	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	2-BUTANONE	25.5	37,100	0.00713		0.00526	ND	UJ	0.00572	0.00934		0.00904	0.00565		0.00514	ND	U	2.57	ND	U	2.31	0.00735		0.00682	0.00372	J	0.0047
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	2-HEXANONE	NE	NE	ND	U	0.00526	ND	UJ	0.00572	ND	U	0.00904	ND	U	0.00514	ND	U	2.57	ND	U	2.31	ND	U	0.00682	ND	U	0.0047
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0263	ND	UJ	0.0286	ND	U	0.0452	ND	U	0.0257	ND	UJ	12.9	ND	UJ	11.6	ND	U	0.0341	ND	U	0.0235
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0263	ND	U	0.0286	ND	U	0.0452	ND	U	0.0257	ND	U	12.9	ND	U	11.6	ND	U	0.0341	ND	U	0.0235
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00526	ND	UJ	0.00572	ND	U	0.00904	ND	U	0.00514	ND	U	2.57	ND	U	2.31	ND	U	0.00682	ND	U	0.0047
	ACETONE	77.1	66,600	0.0354	J	0.0263	ND	U	0.0286	0.0391	J	0.0452	0.0192	J	0.0257	ND	U	12.9	1.75	J	11.6	0.0215	J	0.0341	0.00856	J	0.0235
	BENZENE	0.0345	15.4	0.000712	J	0.0021	0.000899	J	0.00229	0.0139		0.00362	0.000844	J	0.00206	**0.154**	J	1.03	**0.296**	J	0.924	0.000999	J	0.00273	0.000423	J	0.00188
	BROMOBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	BROMODICHLOROMETHANE	0.00541	5.41	ND	UJ	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	BROMOFORM	12.1	6,116	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	BROMOMETHANE	0.0385	16.5	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CHLOROBENZENE	0.984	376	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CHLOROETHANE	107	29,800	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CHLOROFORM	0.00918	5.86	ND	U	0.0021	ND	U	0.00229	0.00129	J	0.00362	0.000612	J	0.00206	ND	U	1.03	ND	U	0.924	0.000978	J	0.00273	0.000648	J	0.00188
	CHLOROMETHANE	0.879	275	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	ETHYLBENZENE	0.26	68.4	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	0.189	J	1.03	**15.1**		0.924	ND	U	0.00273	ND	U	0.00188
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	7.6		0.924	ND	U	0.00273	ND	U	0.00188
	M,P-XYLENES	NE	NE	ND	U	0.00421	ND	U	0.00458	ND	U	0.00723	ND	U	0.00411	1.04	J	2.06	35.8		1.85	ND	U	0.00546	ND	U	0.00376
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00526	ND	U	0.00572	0.00425	J	0.00904	ND	U	0.00514	ND	U	2.57	ND	U	2.31	ND	U	0.00682	ND	U	0.0047
	NAPHTHALENE	0.0713	43.0	ND	U	0.0021	ND	U	0.00229	0.00271	J	0.00362	0.00101	J	0.00206	**2.21**		1.03	**7.71**		0.924	0.00112	J	0.00273	ND	U	0.00188
	N-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	12.5		0.924	0.000539	J	0.00273	ND	U	0.00188
	N-PROPYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	16.7		0.924	ND	U	0.00273	ND	U	0.00188
	O-XYLENE	3.13	898	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	0.689	J	1.03	**19.8**		0.924	ND	U	0.00273	ND	U	0.00188

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			LOCATION CODE	DP071			DP071			DP071			DP071			DP071			DP071			DP072			DP072		
			SAMPLE NO	FFOR0393			FFOR0394-R			FFOR0395			FFOR0396			FFOR0397			FFOR0398			FFOR0399			FFOR0400		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	0.971	J	1.03	4.45		0.924	ND	U	0.00273	ND	U	0.00188
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	9.21		0.924	ND	U	0.00273	ND	U	0.00188
	STYRENE	27.7	7,280	ND	U	0.0021	ND	U	0.00229	0.00104	J	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TOLUENE	25.3	5,270	ND	U	0.0021	ND	U	0.00229	0.00187	J	0.00362	0.000846	J	0.00206	ND	U	1.03	5.36		0.924	ND	U	0.00273	ND	U	0.00188
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	VINYL ACETATE	1.52	2,560	ND	UJ	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0021	ND	U	0.00229	ND	U	0.00362	ND	U	0.00206	ND	U	1.03	ND	U	0.924	ND	U	0.00273	ND	U	0.00188
	XYLENES	3.13	814	ND	U	0.00631	ND	U	0.00687	ND	U	0.0109	ND	U	0.00617	1.73	J	3.08	**55.5**		2.77	ND	U	0.00818	ND	U	0.00565
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	51.1		0.63	31.3		1.32	30.5		0.67	10.2	J-	0.64	10.7		0.7	5.05		0.65	29.6		0.62	15.3		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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			LOCATION CODE	DP072			DP072			DP072			DP073			DP073			DP073			DP073			DP073		
			SAMPLE NO	FFOR0401			FFOR0402			FFOR0403			FFOR0404			FFOR0405			FFOR0406			FFOR0407			FFOR0408		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.56	J	4.3	9.45		4.6	33.6		4.3	134		20.8	19		4.35	7.13		4.18	7.56		4.18	57.2		4.49
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.35	5.77		4.83	3820		545	1.11	J	5.82	ND	U	5.15	ND	U	5.58	ND	U	5.48	46.2	J+	4.73
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.386	6.03		3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	0.175	J	0.369
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.709	ND	U	0.772	ND	U	0.722	ND	U	0.685	ND	U	0.73	ND	U	0.692	ND	U	0.692	ND	U	0.738
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	0.0432	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.386	ND	U	0.361	0.172	J	0.343	0.0287	J	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.355	0.0441	J	0.386	ND	U	0.361	0.019	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.355	0.0426	J	0.386	0.0448	J	0.361	0.0416	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZO(GHI)PERYLENE	NE	NE	0.0525	J	0.355	0.0809	J	0.386	ND	U	0.361	0.076	J	0.343	0.0179	J	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.355	ND	U	0.386	0.0192	J	0.361	0.0153	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.386	0.0224	J	0.361	0.0507	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	CHRYSENE	160	147	ND	U	0.355	ND	U	0.386	0.0421	J	0.361	0.0311	J	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	DIBENZOFURAN	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	0.0278	J	0.369
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	FLUORANTHENE	2,430	2,290	0.0185	J	0.355	ND	U	0.386	0.0956	J	0.361	0.0371	J	0.343	0.0142	J	0.365	0.0186	J	0.346	0.0173	J	0.346	0.0334	J	0.369
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.386	0.0256	J	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0466	J	0.355	0.0943	J	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.386	**4.1**		3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	0.0486	J	0.369
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.386	ND	U	3.61	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369

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			LOCATION CODE	DP072			DP072			DP072			DP073			DP073			DP073			DP073			DP073		
			SAMPLE NO	FFOR0401			FFOR0402			FFOR0403			FFOR0404			FFOR0405			FFOR0406			FFOR0407			FFOR0408		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.93	ND	U	1.8	ND	U	1.71	ND	U	1.83	ND	U	1.73	ND	U	1.73	ND	U	1.85
	PHENANTHRENE	571	1,830	ND	U	0.355	ND	U	0.386	0.0632	J	0.361	ND	U	0.343	ND	U	0.365	0.0209	J	0.346	0.0236	J	0.346	0.0378	J	0.369
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	PYRENE	1,790	1,720	0.0168	J	0.355	0.0364	J	0.386	0.0559	J	0.361	0.0404	J	0.343	0.0184	J	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.386	ND	U	0.361	ND	U	0.343	ND	U	0.365	ND	U	0.346	ND	U	0.346	ND	U	0.369
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000139	J	0.00198	0.000472	J	0.00174	88.6		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.294		0.106
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000273	J	0.00198	0.00031	J	0.00174	35.1		1.68	ND	U	0.00194	ND	U	0.00197	0.000179	J	0.00194	ND	U	0.00217	0.127		0.106
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	1-CHLOROHEXANE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	2-BUTANONE	25.5	37,100	0.00583		0.00495	0.00717		0.00436	ND	U	4.19	0.0098		0.00486	0.00421	J	0.00493	0.0252		0.00486	0.0324		0.00543	0.204	J	0.266
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	2-HEXANONE	NE	NE	ND	U	0.00495	ND	U	0.00436	ND	U	4.19	ND	U	0.00486	ND	U	0.00493	ND	U	0.00486	ND	U	0.00543	ND	U	0.266
	2-PROPENAL	0.000146	0.404	ND	U	0.0247	ND	U	0.0218	ND	UJ	21	ND	U	0.0243	ND	U	0.0247	ND	U	0.0243	ND	U	0.0272	ND	UJ	1.33
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0247	ND	U	0.0218	ND	U	21	ND	U	0.0243	ND	U	0.0247	ND	U	0.0243	ND	U	0.0272	ND	U	1.33
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00495	0.00453		0.00436	ND	U	4.19	ND	U	0.00486	ND	U	0.00493	0.00796		0.00486	0.00978		0.00543	ND	U	0.266
	ACETONE	77.1	66,600	0.0174	J	0.0247	0.0277		0.0218	ND	U	21	0.0456		0.0243	0.0139	J	0.0247	0.0814		0.0243	0.102		0.0272	0.633	J	1.33
	BENZENE	0.0345	15.4	0.000491	J	0.00198	0.00121	J	0.00174	ND	U	1.68	0.00132	J	0.00194	0.000156	J	0.00197	0.000387	J	0.00194	0.00122	J	0.00217	**0.907**		0.106
	BROMOBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	BROMOFORM	12.1	6,116	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	BROMOMETHANE	0.0385	16.5	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CHLOROBENZENE	0.984	376	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CHLOROETHANE	107	29,800	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CHLOROFORM	0.00918	5.86	0.000626	J	0.00198	0.000713	J	0.00174	ND	U	1.68	0.000517	J	0.00194	0.000611	J	0.00197	0.000749	J	0.00194	0.000491	J	0.00217	ND	U	0.106
	CHLOROMETHANE	0.879	275	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	ETHYLBENZENE	0.26	68.4	0.000291	J	0.00198	0.000255	J	0.00174	**19.4**		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.0749	J	0.106
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00198	ND	U	0.00174	12.5		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.0342	J	0.106
	M,P-XYLENES	NE	NE	ND	U	0.00396	0.000874	J	0.00349	71		3.35	ND	U	0.00389	ND	U	0.00395	ND	U	0.00388	ND	U	0.00434	0.258		0.213
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00495	ND	U	0.00436	ND	U	4.19	ND	U	0.00486	ND	U	0.00493	ND	U	0.00486	ND	U	0.00543	ND	U	0.266
	NAPHTHALENE	0.0713	43.0	0.000789	J	0.00198	ND	U	0.00174	**9.37**		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	**0.231**		0.106
	N-BUTYLBENZENE	NE	NE	0.000302	J	0.00198	ND	U	0.00174	19.6		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.105	J	0.106
	N-PROPYLBENZENE	NE	NE	0.000222	J	0.00198	ND	U	0.00174	24.5		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.0696	J	0.106
	O-XYLENE	3.13	898	0.000975	J	0.00198	0.00103	J	0.00174	**35.7**		1.68	ND	U	0.00194	ND	U	0.00197	0.000925	J	0.00194	0.00106	J	0.00217	0.119		0.106

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		LOCATION CODE		DP072			DP072			DP072			DP073			DP073			DP073			DP073			DP073		
		SAMPLE NO		FFOR0401			FFOR0402			FFOR0403			FFOR0404			FFOR0405			FFOR0406			FFOR0407			FFOR0408		
		SAMPLE DATE		7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00198	0.000094	J	0.00174	9.26		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.0346	J	0.106
	SEC-BUTYLBENZENE	NE	NE	0.00013	J	0.00198	ND	U	0.00174	14.5		1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	0.0625	J	0.106
	STYRENE	27.7	7,280	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TOLUENE	25.3	5,270	0.001	J	0.00198	0.0018		0.00174	2.01		1.68	0.00118	J	0.00194	ND	U	0.00197	0.000771	J	0.00194	0.001	J	0.00217	0.139		0.106
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	VINYL ACETATE	1.52	2,560	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00198	ND	U	0.00174	ND	U	1.68	ND	U	0.00194	ND	U	0.00197	ND	U	0.00194	ND	U	0.00217	ND	U	0.106
	XYLENES	3.13	814	0.000975	J	0.00593	0.00191	J	0.00523	**107**		5.03	ND	U	0.00583	ND	U	0.00592	0.000925	J	0.00583	0.00106	J	0.00652	0.377		0.319
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.3		0.64	8.12		0.7	5.63		0.65	73.2		0.62	19.8		0.66	5.58		0.64	5.28		0.63	7.11		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP073			DP074			DP074			DP074			DP074			DP074			DP075			DP075		
			SAMPLE NO	FFOR0409			FFOR0410			FFOR0411			FFOR0412			FFOR0413			FFOR0414			FFOR0415			FFOR0416		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	744		84.9	86		8.25	14.6		4.35	6.47		4.2	1060		221	1120		215	9.28		4.18	37.8		4.37
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1510		101	2.23	J	5.9	ND	U	5.55	ND	U	5.62	849	J+	115	3040		669	ND	U	5.63	ND	U	6.26
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	0.25	J	0.354	ND	U	3.41	ND	U	3.67
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2-CHLOROPHENOL	2.31	391	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2-METHYLNAPHTHALENE	NE	NE	6.52		3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.394		0.369	2.3		0.354	ND	U	3.41	ND	U	3.67
	2-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	2-NITROPHENOL	NE	NE	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.701	ND	U	0.681	ND	U	0.707	ND	U	0.693	ND	U	0.737	ND	U	0.709	ND	U	6.83	ND	U	7.33
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	4-CHLOROANILINE	NE	NE	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	ACENAPHTHENE	338	3,440	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	ACENAPHTHYLENE	NE	NE	ND	U	0.35	0.0506	J	0.34	0.02	J	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	ANTHRACENE	5,410	17,200	ND	U	0.35	0.136	J	0.34	0.0459	J	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BENZENAMINE	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	0.0847	J	0.354	ND	U	3.41	ND	U	3.67
	BENZO(A)PYRENE	0.52	0.148	0.0677	J	0.35	0.0291	J	0.34	ND	U	0.353	ND	U	0.347	**0.285**	J	0.369	**0.17**	J	0.354	**0.507**	J	3.41	**2.07**	J	3.67
	BENZO(B)FLUORANTHENE	5.31	1.48	0.141	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.476		0.369	0.318	J	0.354	0.677	J	3.41	**2**	J	3.67
	BENZO(GHI)PERYLENE	NE	NE	0.014	J	0.35	0.0715	J	0.34	ND	U	0.353	ND	U	0.347	0.0708	J	0.369	0.113	J	0.354	0.472	J	3.41	3.02	J	3.67
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0266	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.141	J	0.369	0.125	J	0.354	0.277	J	3.41	0.563	J	3.67
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	CARBAZOLE	NE	NE	ND	U	0.35	0.0596	J	0.34	ND	U	0.353	ND	U	0.347	0.0227	J	0.369	0.061	J	0.354	ND	U	3.41	ND	U	3.67
	CHRYSENE	160	147	ND	U	0.35	0.018	J	0.34	ND	U	0.353	ND	U	0.347	0.55		0.369	0.423		0.354	0.182	J	3.41	0.421	J	3.67
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	0.0374	J	0.354	0.143	J	3.41	**0.839**	J	3.67
	DIBENZOFURAN	NE	NE	0.251	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.163	J	0.369	0.233	J	0.354	ND	U	3.41	ND	U	3.67
	DIETHYL PHTHALATE	193	48,900	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	DI-N-OCTYL PHTHALATE	NE	NE	0.179	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	FLUORANTHENE	2,430	2,290	0.3	J	0.35	ND	U	0.34	0.0124	J	0.353	ND	U	0.347	0.657		0.369	0.471		0.354	0.171	J	3.41	0.236	J	3.67
	FLUORENE	406	2,290	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.35	0.0335	J	0.34	ND	U	0.353	ND	U	0.347	0.0884	J	0.369	0.106	J	0.354	0.448	J	3.41	**3.49**	J	3.67
	ISOPHORONE	3.84	5,120	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	NAPHTHALENE	0.0713	43.0	**4.93**		3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	**0.141**	J	0.354	ND	U	3.41	ND	U	3.67
	NITROBENZENE	0.0125	53.5	ND	U	3.5	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP073			DP074			DP074			DP074			DP074			DP074			DP075			DP075		
			SAMPLE NO	FFOR0409			FFOR0410			FFOR0411			FFOR0412			FFOR0413			FFOR0414			FFOR0415			FFOR0416		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.7	ND	U	1.77	ND	U	1.73	ND	U	1.84	ND	U	1.77	ND	U	17.1	ND	U	18.3
	PHENANTHRENE	571	1,830	0.276	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.356	J	0.369	0.349	J	0.354	ND	U	3.41	ND	U	3.67
	PHENOL	99.5	18,300	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
	PYRENE	1,790	1,720	0.0645	J	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	0.266	J	0.369	0.252	J	0.354	0.179	J	3.41	0.296	J	3.67
	PYRIDINE	NE	NE	ND	U	0.35	ND	U	0.34	ND	U	0.353	ND	U	0.347	ND	U	0.369	ND	U	0.354	ND	U	3.41	ND	U	3.67
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	UJ	0.00208	ND	U	0.00242
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	UJ	0.00208	ND	U	0.00242
	1,2,4-TRIMETHYLBENZENE	NE	NE	57		0.935	0.000837	J	0.00193	ND	U	0.0022	ND	U	0.00195	1.9		0.237	71.4		1.14	ND	U	0.00208	ND	U	0.00242
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,3,5-TRIMETHYLBENZENE	NE	NE	23		0.935	0.000658	J	0.00193	ND	U	0.0022	ND	U	0.00195	4.13		0.237	26.2		1.14	ND	U	0.00208	ND	U	0.00242
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	1-CHLOROHEXANE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	2-BUTANONE	25.5	37,100	ND	U	2.34	0.0164		0.00482	ND	U	0.0055	0.0089	J	0.00488	0.818		0.593	2.65	J	2.84	ND	U	0.0052	ND	U	0.00605
	2-CHLOROTOLUENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	2-HEXANONE	NE	NE	ND	U	2.34	ND	U	0.00482	ND	U	0.0055	ND	U	0.00488	ND	U	0.593	ND	U	2.84	ND	U	0.0052	ND	U	0.00605
	2-PROPENAL	0.000146	0.404	ND	UJ	11.7	ND	U	0.0241	ND	U	0.0275	ND	U	0.0244	ND	UJ	2.96	ND	UJ	14.2	ND	U	0.026	ND	U	0.0303
	2-PROPENENITRILE	0.0016969	4.55	ND	U	11.7	ND	U	0.0241	ND	U	0.0275	ND	U	0.0244	ND	U	2.96	ND	U	14.2	ND	U	0.026	ND	U	0.0303
	4-CHLOROTOLUENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	2.34	ND	U	0.00482	ND	U	0.0055	ND	U	0.00488	ND	U	0.593	ND	U	2.84	ND	U	0.0052	ND	U	0.00605
	ACETONE	77.1	66,600	4.51	J	11.7	0.0701		0.0241	0.00972	J	0.0275	0.0399	J	0.0244	1.95	J	2.96	4.1	J	14.2	0.0254	J	0.026	0.0288	J	0.0303
	BENZENE	0.0345	15.4	**0.632**	J	0.935	0.000768	J	0.00193	ND	U	0.0022	ND	U	0.00195	**0.0699**	J	0.237	**0.205**	J	1.14	0.00214		0.00208	ND	U	0.00242
	BROMOBENZENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	BROMOFORM	12.1	6,116	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	BROMOMETHANE	0.0385	16.5	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CARBON DISULFIDE	5.65	1,530	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CHLOROBENZENE	0.984	376	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CHLOROETHANE	107	29,800	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CHLOROFORM	0.00918	5.86	ND	U	0.935	0.000541	J	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	0.000601	J	0.00208	ND	U	0.00242
	CHLOROMETHANE	0.879	275	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	ETHYLBENZENE	0.26	68.4	**34.2**		0.935	0.000472	J	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	**34.4**		1.14	ND	U	0.00208	ND	U	0.00242
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	UJ	0.00208	ND	U	0.00242
	ISOPROPYLBENZENE	17.3	2,430	11.4		0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	13.7		1.14	ND	U	0.00208	ND	U	0.00242
	M,P-XYLENES	NE	NE	101		1.87	0.00124	J	0.00386	ND	U	0.0044	0.000611	J	0.0039	2.29		0.474	103		2.27	ND	U	0.00416	ND	U	0.00484
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	METHYLENE CHLORIDE	0.824	409	ND	U	2.34	ND	U	0.00482	ND	U	0.0055	ND	U	0.00488	ND	U	0.593	ND	U	2.84	ND	U	0.0052	ND	U	0.00605
	NAPHTHALENE	0.0713	43.0	**12.2**		0.935	0.00288		0.00193	ND	U	0.0022	ND	U	0.00195	**0.572**		0.237	**13.3**		1.14	ND	U	0.00208	ND	U	0.00242
	N-BUTYLBENZENE	NE	NE	15.4		0.935	0.000956	J	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	17.2		1.14	ND	UJ	0.00208	ND	U	0.00242
	N-PROPYLBENZENE	NE	NE	24.2		0.935	0.000278	J	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	27.5		1.14	ND	U	0.00208	ND	U	0.00242
	O-XYLENE	3.13	898	**39.7**		0.935	0.00123	J	0.00193	ND	U	0.0022	ND	U	0.00195	0.956		0.237	**42.4**		1.14	ND	U	0.00208	ND	U	0.00242

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP073			DP074			DP074			DP074			DP074			DP074			DP075			DP075		
		SAMPLE NO		FFOR0409			FFOR0410			FFOR0411			FFOR0412			FFOR0413			FFOR0414			FFOR0415			FFOR0416		
		SAMPLE DATE		7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	5.04		0.935	0.000981	J	0.00193	ND	U	0.0022	ND	U	0.00195	1.87		0.237	7.04		1.14	ND	UJ	0.00208	ND	U	0.00242
	SEC-BUTYLBENZENE	NE	NE	12		0.935	0.000315	J	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	12.6		1.14	ND	UJ	0.00208	ND	U	0.00242
	STYRENE	27.7	7,280	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TOLUENE	25.3	5,270	**25.6**		0.935	0.00187	J	0.00193	ND	U	0.0022	ND	U	0.00195	0.0457	J	0.237	11.9		1.14	ND	U	0.00208	ND	U	0.00242
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	VINYL ACETATE	1.52	2,560	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.935	ND	U	0.00193	ND	U	0.0022	ND	U	0.00195	ND	U	0.237	ND	U	1.14	ND	U	0.00208	ND	U	0.00242
	XYLENES	3.13	814	**140**		2.8	0.00248	J	0.00579	ND	U	0.0066	0.000611	J	0.00585	**3.25**		0.711	**145**		3.41	ND	U	0.00624	ND	U	0.00726
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.27		0.64	52.8		0.62	55.1		0.65	7.68		0.64	8.97		0.67	4.36		0.64	13.3	J-	0.63	7.02		1.33

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP075			DP075			DP075			DP075			DP076			DP076			DP076			DP076		
			SAMPLE NO	FFOR0417			FFOR0418			FFOR0419			FFOR0420			FFOR0421			FFOR0422			FFOR0423			FFOR0424		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	49.5		4.31	865		225	1710		217	2530		217	106		8.48	32		4.66	65.4		4.24	17700		2130
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.4	724	J+	82.8	3540		469	3340		459	0.737	J	4.63	ND	U	6.22	0.722	J	5.28	5480		499
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	0.294	J	0.37	0.374		0.356	0.485		0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	U	1.72	ND	U	1.91	ND	U	1.75	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	UJ	0.344	ND	UJ	0.381	ND	UJ	0.349	ND	UJ	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	0.0102	J	0.356	0.785		0.37	3.06		0.356	3.43		0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	52.4		35.5
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	U	1.72	ND	U	1.91	ND	U	1.75	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.74	ND	U	0.712	ND	U	0.716	ND	U	0.688	ND	U	0.763	ND	U	0.699	ND	U	0.71
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	U	1.72	ND	U	1.91	ND	U	1.75	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	U	1.72	ND	U	1.91	ND	U	1.75	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	UJ	1.72	ND	UJ	1.91	ND	UJ	1.75	ND	UJ	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	UJ	1.72	ND	UJ	1.91	ND	UJ	1.75	ND	UJ	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	0.0977	J	0.344	0.0211	J	0.381	ND	U	0.349	ND	U	0.355
	ANTHRACENE	5,410	17,200	0.0519	J	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	0.339	J	0.344	0.0499	J	0.381	ND	U	0.349	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	1.35		0.356	ND	U	0.37	0.229	J	0.356	0.245	J	0.358	0.0315	J	0.344	ND	U	0.381	ND	U	0.349	0.0341	J	0.355
	BENZO(A)PYRENE	0.52	0.148	**0.178**	J	0.356	**0.448**		0.37	0.0738	J	0.356	0.0852	J	0.358	ND	U	3.44	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	**2.31**		0.356	0.795		0.37	0.71		0.356	0.874		0.358	ND	U	3.44	0.0497	J	0.381	ND	U	0.349	0.358	J	0.355
	BENZO(GHI)PERYLENE	NE	NE	0.602		0.356	0.146	J	0.37	0.22	J	0.356	0.238	J	0.358	ND	U	3.44	0.0251	J	0.381	ND	U	0.349	0.0419	J	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	0.66		0.356	0.252	J	0.37	0.258	J	0.356	0.333	J	0.358	ND	U	3.44	0.0221	J	0.381	ND	U	0.349	0.126	J	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	0.0222	J	0.37	ND	U	0.356	ND	U	0.358	0.0377	J	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.356	0.058	J	0.37	0.0986	J	0.356	0.119	J	0.358	0.109	J	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	CHRYSENE	160	147	0.951		0.356	ND	U	0.37	0.842		0.356	1.02		0.358	ND	U	0.344	0.0539	J	0.381	ND	U	0.349	0.203	J	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	**0.222**	J	0.356	ND	U	0.37	0.0783	J	0.356	0.0798	J	0.358	ND	U	3.44	ND	U	0.381	ND	U	0.349	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.356	0.227	J	0.37	0.356		0.356	0.461		0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	1.27	J	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	FLUORANTHENE	2,430	2,290	4.01		0.356	1.37		0.37	1.24		0.356	1.53		0.358	ND	U	0.344	0.058	J	0.381	0.00865	J	0.349	0.776	J	0.355
	FLUORENE	406	2,290	0.0156	J	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.37	ND	UJ	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.711		0.356	0.162	J	0.37	0.204	J	0.356	0.254	J	0.358	ND	U	3.44	ND	U	0.381	ND	U	0.349	0.0485	J	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.37	**0.208**	J	0.356	**0.176**	J	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	**20.1**	J	35.5
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP075			DP075			DP075			DP075			DP076			DP076			DP076			DP076		
			SAMPLE NO	FFOR0417			FFOR0418			FFOR0419			FFOR0420			FFOR0421			FFOR0422			FFOR0423			FFOR0424		
			SAMPLE DATE	7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.85	ND	U	1.78	ND	U	1.79	ND	U	1.72	ND	U	1.91	ND	U	1.75	ND	U	1.77
	PHENANTHRENE	571	1,830	0.373		0.356	0.778		0.37	0.855		0.356	1.07		0.358	ND	U	0.344	ND	U	0.381	0.0159	J	0.349	0.529	J	0.355
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
	PYRENE	1,790	1,720	6.35		0.356	0.567		0.37	0.675		0.356	0.809		0.358	ND	U	0.344	0.0363	J	0.381	ND	U	0.349	0.372	J	0.355
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.37	ND	U	0.356	ND	U	0.358	ND	U	0.344	ND	U	0.381	ND	U	0.349	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00229	0.947		0.105	71.4		2.02	74.3		1.84	ND	U	0.00215	ND	U	0.00232	0.0688	J	0.113	243		4.52
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00229	3.62		0.105	27.7		2.02	28.1		1.84	ND	U	0.00215	ND	U	0.00232	0.034	J	0.113	83.3		4.52
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	1-CHLOROHEXANE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	2-BUTANONE	25.5	37,100	ND	U	0.00574	0.441		0.263	2.48	J	5.06	2.34	J	4.61	ND	U	0.00538	ND	U	0.0058	ND	U	0.283	ND	U	11.3
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	2-HEXANONE	NE	NE	ND	U	0.00574	ND	U	0.263	ND	U	5.06	ND	U	4.61	ND	U	0.00538	ND	U	0.0058	ND	U	0.283	ND	U	11.3
	2-PROPENAL	0.000146	0.404	ND	U	0.0287	ND	UJ	1.31	ND	UJ	25.3	ND	UJ	23	ND	U	0.0269	ND	U	0.029	ND	UJ	1.41	ND	UJ	56.5
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0287	ND	U	1.31	ND	U	25.3	ND	U	23	ND	U	0.0269	ND	U	0.029	ND	U	1.41	ND	U	56.5
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00574	ND	U	0.263	ND	U	5.06	ND	U	4.61	ND	U	0.00538	ND	U	0.0058	ND	U	0.283	ND	U	11.3
	ACETONE	77.1	66,600	0.0319	J	0.0287	0.969	J	1.31	4.41	J	25.3	4.5	J	23	0.0408	J	0.0269	0.00912	J	0.029	0.231	J	1.41	ND	U	56.5
	BENZENE	0.0345	15.4	0.00216	J	0.00229	**0.233**		0.105	**0.258**	J	2.02	**0.159**	J	1.84	ND	U	0.00215	ND	U	0.00232	**0.0795**	J	0.113	**0.468**	J	4.52
	BROMOBENZENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	BROMOFORM	12.1	6,116	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	BROMOMETHANE	0.0385	16.5	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CHLOROBENZENE	0.984	376	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CHLOROETHANE	107	29,800	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CHLOROFORM	0.00918	5.86	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CHLOROMETHANE	0.879	275	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	UJ	0.00232	ND	U	0.113	ND	U	4.52
	ETHYLBENZENE	0.26	68.4	ND	U	0.00229	0.177		0.105	**29.5**		2.02	**32.5**		1.84	ND	U	0.00215	ND	U	0.00232	0.016	J	0.113	**50.4**		4.52
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00229	0.105	J	0.105	13.7		2.02	13.9		1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	**24.2**		4.52
	M,P-XYLENES	NE	NE	0.00157	J	0.00459	0.906		0.21	94.7		4.05	103		3.69	ND	U	0.0043	ND	U	0.00464	0.0596	J	0.226	225		9.04
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00574	ND	U	0.263	ND	U	5.06	ND	U	4.61	ND	U	0.00538	ND	U	0.0058	ND	U	0.283	ND	U	11.3
	NAPHTHALENE	0.0713	43.0	ND	U	0.00229	**2.45**		0.105	**14.1**		2.02	**14**		1.84	ND	U	0.00215	ND	U	0.00232	0.0585	J	0.113	**60.3**		4.52
	N-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.105	16.4		2.02	16.9		1.84	ND	U	0.00215	ND	U	0.00232	0.0243	J	0.113	53.2		4.52
	N-PROPYLBENZENE	NE	NE	ND	U	0.00229	0.164		0.105	26.5		2.02	27.3		1.84	ND	U	0.00215	ND	U	0.00232	0.0182	J	0.113	46.4		4.52
	O-XYLENE	3.13	898	0.000498	J	0.00229	0.458		0.105	**36.9**		2.02	**39.8**		1.84	ND	U	0.00215	ND	U	0.00232	0.0268	J	0.113	**93.8**		4.52

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP075			DP075			DP075			DP075			DP076			DP076			DP076			DP076		
		SAMPLE NO		FFOR0417			FFOR0418			FFOR0419			FFOR0420			FFOR0421			FFOR0422			FFOR0423			FFOR0424		
		SAMPLE DATE		7-Jul-11			7-Jul-11			7-Jul-11			7-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00229	1.36		0.105	7.26		2.02	8.02		1.84	ND	U	0.00215	ND	U	0.00232	0.013	J	0.113	26.3		4.52
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00229	0.212		0.105	12.6		2.02	12.9		1.84	ND	U	0.00215	ND	U	0.00232	0.0141	J	0.113	36.2		4.52
	STYRENE	27.7	7,280	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TOLUENE	25.3	5,270	0.00344		0.00229	0.0732	J	0.105	7.05		2.02	8.61		1.84	0.00196	J	0.00215	ND	U	0.00232	ND	U	0.113	**28.4**		4.52
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	VINYL ACETATE	1.52	2,560	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	UJ	0.00232	ND	U	0.113	ND	U	4.52
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00229	ND	U	0.105	ND	U	2.02	ND	U	1.84	ND	U	0.00215	ND	U	0.00232	ND	U	0.113	ND	U	4.52
	XYLENES	3.13	814	0.00207	J	0.00688	1.36		0.316	**132**		6.07	**142**		5.53	ND	U	0.00645	ND	U	0.00695	0.0864	J	0.339	**318**		13.6
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.34		0.65	7.46		0.68	4.96		0.66	5.84		0.66	55.5		0.63	11.5		1.4	6.81		0.64	11.7		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP076			DP077			DP077			DP077			DP077			DP077			DP077			DP078		
			SAMPLE NO	FFOR0425			FFOR0426			FFOR0427			FFOR0428			FFOR0429			FFOR0430			FFOR0431			FFOR0432		
			SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	8710		830	108		8.47	46.8		4.37	671	J	83.8	1290	J	84.6	7840		885	6620		852	10.7		8.31
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	5430		522	ND	U	5.55	ND	U	4.42	47.2	J+	4.99	88.1	J+	5.12	2580		563	2590		502	ND	U	6.01
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.72	ND	U	1.77	ND	U	1.72	ND	U	1.72	ND	U	1.83	ND	U	17.6	ND	U	1.71
	2,4-DINITROTOLUENE	0.0449	15.7	ND	UJ	0.346	ND	UJ	0.345	ND	UJ	0.355	ND	UJ	0.343	ND	UJ	0.344	ND	UJ	0.365	ND	U	3.51	ND	U	0.343
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2-METHYLNAPHTHALENE	NE	NE	39.9		3.46	0.0271	J	0.345	ND	U	0.355	0.203	J	0.343	0.083	J	0.344	28.5		3.65	23.5		3.51	ND	U	0.343
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.77	ND	U	1.72	ND	U	1.72	ND	U	1.83	ND	U	17.6	ND	U	1.71
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.692	ND	U	0.689	ND	U	0.709	ND	U	0.687	ND	U	0.689	ND	U	0.73	ND	U	7.03	ND	U	0.686
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.72	ND	U	1.77	ND	U	1.72	ND	U	1.72	ND	U	1.83	ND	U	17.6	ND	U	1.71
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.72	ND	U	1.77	ND	U	1.72	ND	U	1.72	ND	U	1.83	ND	U	17.6	ND	U	1.71
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	4-NITROANILINE	NE	NE	ND	UJ	1.73	ND	UJ	1.72	ND	UJ	1.77	ND	UJ	1.72	ND	UJ	1.72	ND	UJ	1.83	ND	U	17.6	ND	U	1.71
	4-NITROPHENOL	NE	NE	ND	UJ	1.73	ND	UJ	1.72	ND	UJ	1.77	ND	UJ	1.72	ND	UJ	1.72	ND	UJ	1.83	ND	U	17.6	ND	U	1.71
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	0.0146	J	0.343
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	0.0744	J	0.345	0.0654	J	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	ANTHRACENE	5,410	17,200	ND	U	0.346	0.224	J	0.345	0.134	J	0.355	ND	U	0.343	ND	U	0.344	0.102	J	0.365	ND	U	3.51	0.0285	J	0.343
	BENZENAMINE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.345	ND	U	0.355	0.239	J	0.343	0.0906	J	0.344	0.372	J	0.365	ND	U	3.51	0.0878	J	0.343
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.346	ND	U	3.45	**0.21**	J	0.355	0.0961	J	0.343	0.0264	J	0.344	**0.214**	J	0.365	ND	U	3.51	0.0878	J	0.343
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	3.45	0.272	J	0.355	0.479		0.343	0.201	J	0.344	0.468	J	0.365	ND	U	3.51	0.121	J	0.343
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	ND	U	3.45	0.316	J	0.355	0.0643	J	0.343	0.0279	J	0.344	0.132	J	0.365	ND	U	3.51	0.105	J	0.343
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	3.45	0.0385	J	0.355	0.142	J	0.343	0.0611	J	0.344	0.193	J	0.365	ND	U	3.51	0.0567	J	0.343
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	CARBAZOLE	NE	NE	ND	U	0.346	0.066	J	0.345	0.0559	J	0.355	ND	U	0.343	ND	U	0.344	0.0505	J	0.365	ND	U	3.51	0.0211	J	0.343
	CHRYSENE	160	147	ND	U	0.346	ND	U	0.345	0.0392	J	0.355	0.341	J	0.343	0.152	J	0.344	0.417	J	0.365	ND	U	3.51	0.106	J	0.343
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	3.45	0.0894	J	0.355	0.0224	J	0.343	ND	U	0.344	0.0386	J	0.365	ND	U	3.51	ND	U	0.343
	DIBENZOFURAN	NE	NE	0.428	J	0.346	ND	U	0.345	ND	U	0.355	0.163	J	0.343	0.0784	J	0.344	0.521	J	0.365	0.665	J	3.51	ND	U	0.343
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	FLUORANTHENE	2,430	2,290	0.00879	J	0.346	0.0085	J	0.345	ND	U	0.355	1.64		0.343	0.77	J	0.344	0.969	J	0.365	ND	U	3.51	0.193	J	0.343
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	0.344	J	0.365	ND	U	3.51	ND	U	0.343
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	ND	U	3.45	0.332	J	0.355	0.079	J	0.343	ND	U	0.344	0.123	J	0.365	ND	U	3.51	0.0696	J	0.343
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	NAPHTHALENE	0.0713	43.0	**12.6**		3.46	ND	U	0.345	ND	U	0.355	**0.0796**	J	0.343	0.0316	J	0.344	**10.8**		3.65	**9.23**		3.51	ND	U	0.343
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP076			DP077			DP077			DP077			DP077			DP077			DP077			DP078		
				SAMPLE NO	FFOR0425			FFOR0426			FFOR0427			FFOR0428			FFOR0429			FFOR0430			FFOR0431			FFOR0432		
				SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.72	ND	U	1.77	ND	U	1.72	ND	U	1.72	ND	U	1.83	ND	U	17.6	ND	U	1.71
	PHENANTHRENE	571	1,830	0.0393	J	0.346	ND	U	0.345	ND	U	0.355	1.23		0.343	0.599	J	0.344	0.482	J	0.365	ND	U	3.51	0.126	J	0.343
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
	PYRENE	1,790	1,720	ND	U	0.346	ND	U	0.345	0.158	J	0.355	0.735		0.343	0.327	J	0.344	0.694	J	0.365	ND	U	3.51	0.154	J	0.343
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.345	ND	U	0.355	ND	U	0.343	ND	U	0.344	ND	U	0.365	ND	U	3.51	ND	U	0.343
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1-DICHLOROETHENE	2.32	449	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,1-DICHLOROPROPENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2,4-TRIMETHYLBENZENE	NE	NE	165		3.76	0.000958	J	0.00257	ND	U	0.00341	0.718		0.101	0.93		0.104	108		1.75	90.7		2.26	ND	U	0.00221
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,3,5-TRIMETHYLBENZENE	NE	NE	52.3		3.76	ND	U	0.00257	ND	U	0.00341	0.61		0.101	0.814		0.104	36.8		1.75	26.3		2.26	ND	U	0.00221
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,3-DICHLOROPROPANE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	1-CHLOROHEXANE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	2,2-DICHLOROPROPANE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	2-BUTANONE	25.5	37,100	ND	U	9.39	0.0213		0.00643	ND	U	0.00854	0.136	J	0.251	0.149	J	0.259	ND	U	4.38	ND	U	5.65	ND	U	0.00551
	2-CHLOROTOLUENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	2-HEXANONE	NE	NE	ND	U	9.39	ND	U	0.00643	ND	U	0.00854	ND	U	0.251	ND	U	0.259	ND	U	4.38	ND	U	5.65	ND	U	0.00551
	2-PROPENAL	0.000146	0.404	ND	UJ	47	ND	U	0.0321	ND	U	0.0427	ND	UJ	1.26	ND	UJ	1.3	ND	UJ	21.9	ND	UJ	28.3	ND	U	0.0276
	2-PROPENENITRILE	0.0016969	4.55	ND	U	47	ND	U	0.0321	ND	U	0.0427	ND	U	1.26	ND	U	1.3	ND	U	21.9	ND	U	28.3	ND	U	0.0276
	4-CHLOROTOLUENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	9.39	ND	U	0.00643	ND	U	0.00854	ND	U	0.251	ND	U	0.259	ND	U	4.38	ND	U	5.65	ND	U	0.00551
	ACETONE	77.1	66,600	ND	U	47	0.0987		0.0321	0.0278	J	0.0427	0.314	J	1.26	0.328	J	1.3	3.14	J	21.9	5.33	J	28.3	0.0127	J	0.0276
	BENZENE	0.0345	15.4	**0.672**	J	3.76	0.000801	J	0.00257	0.00614		0.00341	**0.568**		0.101	**0.601**		0.104	**0.345**	J	1.75	**0.531**	J	2.26	0.000533	J	0.00221
	BROMOBENZENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	BROMOCHLOROMETHANE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	BROMOFORM	12.1	6,116	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	BROMOMETHANE	0.0385	16.5	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CARBON DISULFIDE	5.65	1,530	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CHLOROBENZENE	0.984	376	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CHLOROETHANE	107	29,800	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CHLOROFORM	0.00918	5.86	ND	U	3.76	ND	U	0.00257	0.00107	J	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	0.000616	J	0.00221
	CHLOROMETHANE	0.879	275	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	DIBROMOMETHANE	0.0342	51.6	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	ETHYLBENZENE	0.26	68.4	**51.3**		3.76	ND	U	0.00257	ND	U	0.00341	0.0473	J	0.101	0.0516	J	0.104	**8.25**		1.75	**26.5**		2.26	ND	U	0.00221
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	ISOPROPYLBENZENE	17.3	2,430	**17.9**		3.76	ND	U	0.00257	ND	U	0.00341	0.0289	J	0.101	0.0396	J	0.104	7.68		1.75	9.67		2.26	ND	U	0.00221
	M,P-XYLENES	NE	NE	193		7.51	ND	U	0.00514	ND	U	0.00683	0.27		0.201	0.322		0.207	57.1		3.5	102		4.52	ND	U	0.00441
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221
	METHYLENE CHLORIDE	0.824	409	ND	U	9.39	ND	U	0.00643	ND	U	0.00854	ND	U	0.251	ND	U	0.259	ND	U	4.38	ND	U	5.65	ND	U	0.00551
	NAPHTHALENE	0.0713	43.0	**41.3**		3.76	0.0012	J	0.00257	ND	U	0.00341	**0.35**		0.101	**0.425**		0.104	**26.1**		1.75	**31.6**		2.26	ND	U	0.00221
	N-BUTYLBENZENE	NE	NE	35.3		3.76	0.000445	J	0.00257	ND	U	0.00341	0.201		0.101	0.274		0.104	23.7		1.75	32.2		2.26	ND	U	0.00221
	N-PROPYLBENZENE	NE	NE	32.9		3.76	ND	U	0.00257	ND	U	0.00341	0.0601	J	0.101	0.0712	J	0.104	15.5		1.75	18.8		2.26	ND	U	0.00221
	O-XYLENE	3.13	898	**73.4**		3.76	ND	U	0.00257	ND	U	0.00341	0.136		0.101	0.173		0.104	**27**		1.75	**38.2**		2.26	ND	U	0.00221

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP076			DP077			DP077			DP077			DP077			DP077			DP077			DP077			DP078		
		SAMPLE NO		FFOR0425			FFOR0426			FFOR0427			FFOR0428			FFOR0429			FFOR0430			FFOR0431			FFOR0432				
		SAMPLE DATE		8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG				
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ			
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	19		3.76	ND	U	0.00257	ND	U	0.00341	0.115		0.101	0.155		0.104	12.8		1.75	12		2.26	ND	U	0.00221			
	SEC-BUTYLBENZENE	NE	NE	24.4		3.76	ND	U	0.00257	ND	U	0.00341	0.122		0.101	0.159		0.104	16.3		1.75	18.3		2.26	ND	U	0.00221			
	STYRENE	27.7	7,280	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TERT-BUTYLBENZENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TETRACHLOROETHENE	0.00861	7.02	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TOLUENE	25.3	5,270	**44.5**		3.76	0.00217	J	0.00257	ND	U	0.00341	0.115		0.101	0.112		0.104	4.51		1.75	**27.3**		2.26	ND	U	0.00221			
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TRICHLOROETHENE	0.0211	8.77	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	VINYL ACETATE	1.52	2,560	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	VINYL CHLORIDE	0.00108	0.728	ND	U	3.76	ND	U	0.00257	ND	U	0.00341	ND	U	0.101	ND	U	0.104	ND	U	1.75	ND	U	2.26	ND	U	0.00221			
	XYLENES	3.13	814	**266**		11.3	ND	U	0.00771	ND	U	0.0102	0.407		0.302	0.494		0.311	**84**		5.25	**141**		6.78	ND	U	0.00662			
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.62		0.63	72.6		0.64	25.8		0.66	5.25		0.63	5.37		0.63	11.1		0.66	6.69		0.64	13.8		0.62			

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP078			DP078			DP078			DP078			DP079			DP079			DP079			DP079		
				SAMPLE NO	FFOR0433			FFOR0434			FFOR0435			FFOR0436			FFOR0437			FFOR0438			FFOR0439			FFOR0440		
				SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	137		21.4	691		85.3	2460		224	4400		434	36.3		4.21	7.82		4.26	29.1		4.2	8410		876
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	37	J+	4.71	0.712	J	4.6	1550		545	2860		486	ND	U	4.75	5.65	J	8.24	3.19	J	5.79	3390		576
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	U	1.79	ND	U	1.74	ND	U	1.77	ND	UJ	1.73	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	UJ	0.358	ND	UJ	0.347	ND	UJ	0.355	ND	UJ	0.346	ND	UJ	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.352	10.1		3.7	24		3.58	0.0217	J	0.347	ND	U	0.355	ND	U	0.346	32.4		3.55
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	U	1.79	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.708	ND	U	0.704	ND	U	7.39	ND	U	0.716	ND	U	0.694	ND	U	0.709	ND	UJ	0.693	ND	U	0.711
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	UJ	0.346	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	U	1.79	ND	U	1.74	ND	U	1.77	ND	UJ	1.73	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	U	1.79	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	UJ	0.346	ND	U	3.55
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	UJ	1.79	ND	UJ	1.74	ND	UJ	1.77	ND	UJ	1.73	ND	UJ	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	UJ	1.79	ND	UJ	1.74	ND	UJ	1.77	ND	UJ	1.73	ND	UJ	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.354	0.0638	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	UJ	0.346	ND	U	0.355
	ANTHRACENE	5,410	17,200	0.132	J	0.354	0.06	J	0.352	ND	U	3.7	ND	U	0.358	0.0395	J	0.347	0.0223	J	0.355	ND	U	0.346	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	0.422		0.354	0.209	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	0.126	J	0.346	0.234	J	0.355
	BENZO(A)PYRENE	0.52	0.148	**0.295**	J	0.354	**0.198**	J	0.352	ND	U	3.7	0.0186	J	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	**0.173**	J	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	0.519		0.354	0.349	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	0.297	J	0.346	0.842	J	0.355
	BENZO(GHI)PERYLENE	NE	NE	0.174	J	0.354	0.132	J	0.352	ND	U	3.7	ND	U	0.358	0.0138	J	0.347	ND	U	0.355	0.0413	J	0.346	0.142	J	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	0.223	J	0.354	0.151	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	0.0987	J	0.346	0.259	J	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	0.0266	J	0.355	ND	U	0.346	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	CARBAZOLE	NE	NE	0.0716	J	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	CHRYSENE	160	147	0.341	J	0.354	0.219	J	0.352	0.198	J	3.7	0.031	J	0.358	ND	U	0.347	ND	U	0.355	0.182	J	0.346	0.534	J	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.053	J	0.354	0.045	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	0.0175	J	0.346	ND	U	0.355
	DIBENZOFURAN	NE	NE	0.0397	J	0.354	ND	U	0.352	0.234	J	3.7	0.334	J	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	FLUORANTHENE	2,430	2,290	0.904		0.354	0.509		0.352	0.236	J	3.7	0.0379	J	0.358	ND	U	0.347	ND	U	0.355	0.895	J	0.346	0.777	J	0.355
	FLUORENE	406	2,290	0.0589	J	0.354	0.0404	J	0.352	ND	U	3.7	0.301	J	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	0.183	J	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.169	J	0.354	0.13	J	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	0.0423	J	0.346	0.196	J	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.352	**2.73**	J	3.7	**8.46**		3.58	ND	U	0.347	ND	U	0.355	ND	U	0.346	**5.38**		3.55
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	3.55
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP078			DP078			DP078			DP078			DP079			DP079			DP079			DP079		
			SAMPLE NO	FFOR0433			FFOR0434			FFOR0435			FFOR0436			FFOR0437			FFOR0438			FFOR0439			FFOR0440		
			SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.76	ND	U	18.5	ND	U	1.79	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.78
	PHENANTHRENE	571	1,830	0.561		0.354	0.294	J	0.352	0.203	J	3.7	0.0472	J	0.358	ND	U	0.347	ND	U	0.355	0.352		0.346	0.354	J	0.355
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
	PYRENE	1,790	1,720	0.791		0.354	0.859		0.352	ND	U	3.7	0.0356	J	0.358	ND	U	0.347	ND	U	0.355	0.589		0.346	1.01	J	0.355
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.352	ND	U	3.7	ND	U	0.358	ND	U	0.347	ND	U	0.355	ND	U	0.346	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	ND	U	1.98
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.35		0.113	0.0354	J	0.0834	12.3		0.463	123		1.74	ND	U	0.00255	ND	U	0.00298	0.0104	J-	0.0021	70.2		1.98
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.646		0.113	0.866		0.0834	21.5		0.463	36.9		1.74	ND	U	0.00255	ND	U	0.00298	0.0053	J-	0.0021	26.7		1.98
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	1-CHLOROHEXANE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	2-BUTANONE	25.5	37,100	ND	U	0.282	ND	U	0.209	ND	U	1.16	ND	U	4.36	ND	U	0.00637	0.00478	J	0.00744	0.00892		0.00524	ND	U	4.94
	2-CHLOROTOLUENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	ND	U	1.98
	2-HEXANONE	NE	NE	ND	U	0.282	ND	U	0.209	ND	U	1.16	ND	U	4.36	ND	U	0.00637	ND	U	0.00744	ND	U	0.00524	ND	U	4.94
	2-PROPENAL	0.000146	0.404	ND	UJ	1.41	ND	UJ	1.04	ND	UJ	5.78	ND	UJ	21.8	ND	U	0.0318	ND	U	0.0372	ND	U	0.0262	ND	UJ	24.7
	2-PROPENENITRILE	0.0016969	4.55	ND	U	1.41	ND	U	1.04	ND	U	5.78	ND	U	21.8	ND	U	0.0318	ND	U	0.0372	ND	U	0.0262	ND	U	24.7
	4-CHLOROTOLUENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	ND	U	1.98
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.282	ND	U	0.209	ND	U	1.16	ND	U	4.36	ND	U	0.00637	ND	U	0.00744	ND	U	0.00524	ND	U	4.94
	ACETONE	77.1	66,600	ND	U	1.41	0.294	J	1.04	0.837	J	5.78	4	J	21.8	0.0236	J	0.0318	0.0299	J	0.0372	0.0441		0.0262	2.05	J	24.7
	BENZENE	0.0345	15.4	**0.0732**	J	0.113	**0.0611**	J	0.0834	**0.0941**	J	0.463	**0.442**	J	1.74	0.00263		0.00255	0.00686		0.00298	0.000774	J	0.0021	ND	U	1.98
	BROMOBENZENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	BROMOFORM	12.1	6,116	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	BROMOMETHANE	0.0385	16.5	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CARBON DISULFIDE	5.65	1,530	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CHLOROBENZENE	0.984	376	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CHLOROETHANE	107	29,800	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CHLOROFORM	0.00918	5.86	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	0.00071	J	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CHLOROMETHANE	0.879	275	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	UJ	0.00298	ND	U	0.0021	ND	U	1.98
	ETHYLBENZENE	0.26	68.4	ND	U	0.113	ND	U	0.0834	ND	U	0.463	**25**		1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	**4.06**		1.98
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	ND	U	1.98
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.113	ND	U	0.0834	0.267	J	0.463	14		1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	2.53		1.98
	M,P-XYLENES	NE	NE	0.0429	J	0.225	0.0276	J	0.167	2.67		0.926	129		3.49	ND	U	0.00509	ND	U	0.00595	0.00168	J-	0.00419	30.4		3.95
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	METHYLENE CHLORIDE	0.824	409	ND	U	0.282	ND	U	0.209	ND	U	1.16	ND	U	4.36	ND	U	0.00637	0.00178	J	0.00744	ND	U	0.00524	ND	U	4.94
	NAPHTHALENE	0.0713	43.0	**0.366**		0.113	ND	U	0.0834	**10.2**		0.463	**30.5**		1.74	ND	U	0.00255	ND	U	0.00298	0.0199		0.0021	**24.9**		1.98
	N-BUTYLBENZENE	NE	NE	0.0561	J	0.113	ND	U	0.0834	ND	U	0.463	26.9		1.74	ND	U	0.00255	ND	U	0.00298	0.00169	J-	0.0021	11.6		1.98
	N-PROPYLBENZENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	24.3		1.74	ND	U	0.00255	ND	U	0.00298	0.000477	J-	0.0021	3.91		1.98
	O-XYLENE	3.13	898	ND	U	0.113	0.0158	J	0.0834	2.77		0.463	**49.9**		1.74	ND	U	0.00255	ND	U	0.00298	0.0021	J-	0.0021	**14.2**		1.98

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP078			DP078			DP078			DP078			DP079			DP079			DP079			DP079		
		SAMPLE NO		FFOR0433			FFOR0434			FFOR0435			FFOR0436			FFOR0437			FFOR0438			FFOR0439			FFOR0440		
		SAMPLE DATE		8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	0.0627	J	0.113	0.0179	J	0.0834	7.69		0.463	14.3		1.74	ND	U	0.00255	ND	U	0.00298	0.00284	J-	0.0021	12		1.98
	SEC-BUTYLBENZENE	NE	NE	0.034	J	0.113	ND	U	0.0834	3.2		0.463	18		1.74	ND	U	0.00255	ND	U	0.00298	0.00113	J	0.0021	9.45		1.98
	STYRENE	27.7	7,280	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	UJ	0.0021	ND	U	1.98
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	TOLUENE	25.3	5,270	ND	U	0.113	0.0214	J	0.0834	ND	U	0.463	14.8		1.74	ND	U	0.00255	0.000999	J	0.00298	ND	U	0.0021	3.25		1.98
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	VINYL ACETATE	1.52	2,560	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	UJ	0.00298	ND	UJ	0.0021	ND	U	1.98
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.113	ND	U	0.0834	ND	U	0.463	ND	U	1.74	ND	U	0.00255	ND	U	0.00298	ND	U	0.0021	ND	U	1.98
	XYLENES	3.13	814	0.0429	J	0.338	0.0434	J	0.25	**5.43**		1.39	**179**		5.23	ND	U	0.00764	ND	U	0.00893	0.00378	J-	0.00629	**44.7**		5.93
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	54.9		0.64	21		0.64	184		0.67	15.6		0.65	28.1		0.64	24.6		0.64	3.67		0.63	8.32		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP079			DP079			DP080			DP080			DP080			DP080			DP080			DP080		
			SAMPLE NO	FFOR0441			FFOR0442			FFOR0443			FFOR0444			FFOR0445			FFOR0446			FFOR0447			FFOR0448		
			SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-10 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	8360		847	6530		843	33.2		4.31	44.7		4.32	8.84		4.27	2850		425	5730		439	11400		863
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	3520		553	3020		714	ND	U	7.58	ND	U	5.44	ND	U	5.65	45.4	J+	5.34	1230		462	2460		436
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.77	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.76	ND	U	1.8	ND	U	35.4
	2,4-DINITROTOLUENE	0.0449	15.7	ND	UJ	0.353	ND	UJ	0.354	ND	UJ	0.355	ND	UJ	0.353	ND	UJ	0.347	ND	UJ	0.352	ND	U	0.36	ND	U	7.08
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2-METHYLNAPHTHALENE	NE	NE	30.8		3.53	35.9		3.54	0.109	J	0.355	0.114	J	0.353	0.0284	J	0.347	0.189	J	0.352	16.4		3.6	54.4		7.08
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.76	ND	U	1.8	ND	U	35.4
	2-NITROPHENOL	NE	NE	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.707	ND	U	0.711	ND	U	0.706	ND	U	0.694	ND	U	0.704	ND	U	0.719	ND	U	14.2
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.76	ND	U	1.8	ND	U	35.4
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.77	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.76	ND	U	1.8	ND	U	35.4
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	4-CHLOROANILINE	NE	NE	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	4-NITROANILINE	NE	NE	ND	UJ	1.76	ND	UJ	1.77	ND	UJ	1.78	ND	UJ	1.76	ND	UJ	1.73	ND	UJ	1.76	ND	U	1.8	ND	U	35.4
	4-NITROPHENOL	NE	NE	ND	UJ	1.76	ND	UJ	1.77	ND	UJ	1.78	ND	UJ	1.76	ND	UJ	1.73	ND	UJ	1.76	ND	U	1.8	ND	U	35.4
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.354	0.0252	J	0.355	0.0202	J	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.354	0.0801	J	0.355	0.0685	J	0.353	0.0139	J	0.347	0.0247	J	0.352	ND	U	0.36	ND	U	7.08
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.334	J	0.352	ND	U	0.36	ND	U	7.08
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	0.031	J	0.347	**0.475**		0.352	ND	U	0.36	ND	U	7.08
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.689		0.352	ND	U	0.36	ND	U	7.08
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.354	0.0462	J	0.355	0.0395	J	0.353	0.157	J	0.347	0.2	J	0.352	ND	U	0.36	ND	U	7.08
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.258	J	0.352	ND	U	0.36	ND	U	7.08
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.354	0.025	J	0.355	0.0242	J	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	CHRYSENE	160	147	0.0183	J	0.353	0.0164	J	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.519		0.352	0.0243	J	0.36	ND	U	7.08
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	0.717	J	0.36	1.61	J	7.08
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	FLUORANTHENE	2,430	2,290	0.0095	J	0.353	0.0103	J	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.533		0.352	ND	U	0.36	ND	U	7.08
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.0471	J	0.352	0.256	J	0.36	ND	U	7.08
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	0.179	J	0.347	0.249	J	0.352	ND	U	0.36	ND	U	7.08
	ISOPHORONE	3.84	5,120	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	NAPHTHALENE	0.0713	43.0	**5.32**		3.53	**6.24**		3.54	0.0326	J	0.355	0.0334	J	0.353	ND	U	0.347	ND	U	0.352	**2.75**	J	3.6	**13.9**		7.08
	NITROBENZENE	0.0125	53.5	ND	U	3.53	ND	U	3.54	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	3.6	ND	U	7.08
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP079			DP079			DP080			DP080			DP080			DP080			DP080			DP080		
			SAMPLE NO	FFOR0441			FFOR0442			FFOR0443			FFOR0444			FFOR0445			FFOR0446			FFOR0447			FFOR0448		
			SAMPLE DATE	8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-10 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.77	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.76	ND	U	1.8	ND	U	35.4
	PHENANTHRENE	571	1,830	0.0254	J	0.353	0.0266	J	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.0367	J	0.352	0.0213	J	0.36	ND	U	7.08
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	0.674		0.352	ND	U	0.36	ND	U	7.08
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.355	ND	U	0.353	ND	U	0.347	ND	U	0.352	ND	U	0.36	ND	U	7.08
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2,4-TRIMETHYLBENZENE	NE	NE	86.7		2.4	89		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	20.4		0.471	95.2		1.65
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,3,5-TRIMETHYLBENZENE	NE	NE	24.9		2.4	26.2		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	0.385		0.0985	12.5		0.471	22.7		1.65
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	1-CHLOROHEXANE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	1.7		0.471	ND	U	1.65
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	2-BUTANONE	25.5	37,100	ND	U	6.01	ND	U	5.22	0.00819		0.0061	0.00747		0.00482	ND	U	0.00503	ND	U	0.246	ND	U	1.18	ND	U	4.12
	2-CHLOROTOLUENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	2-HEXANONE	NE	NE	ND	U	6.01	ND	U	5.22	ND	U	0.0061	ND	U	0.00482	ND	U	0.00503	ND	U	0.246	ND	U	1.18	ND	U	4.12
	2-PROPENAL	0.000146	0.404	ND	UJ	30.1	ND	UJ	26.1	ND	UJ	0.0305	ND	UJ	0.0241	ND	U	0.0251	ND	UJ	1.23	ND	UJ	5.89	ND	UJ	20.6
	2-PROPENENITRILE	0.0016969	4.55	ND	U	30.1	ND	U	26.1	ND	U	0.0305	ND	U	0.0241	ND	U	0.0251	ND	U	1.23	ND	U	5.89	ND	U	20.6
	4-CHLOROTOLUENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	6.01	ND	U	5.22	ND	U	0.0061	ND	U	0.00482	ND	U	0.00503	ND	U	0.246	ND	U	1.18	ND	U	4.12
	ACETONE	77.1	66,600	4.92	J	30.1	3.62	J	26.1	0.0325		0.0305	0.0328		0.0241	0.0131	J	0.0251	ND	U	1.23	ND	U	5.89	ND	U	20.6
	BENZENE	0.0345	15.4	**0.381**	J	2.4	**0.267**	J	2.09	0.00112	J	0.00244	0.000734	J	0.00193	0.00122	J	0.00201	**0.14**		0.0985	**0.184**	J	0.471	**0.255**	J	1.65
	BROMOBENZENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	BROMOFORM	12.1	6,116	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	BROMOMETHANE	0.0385	16.5	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CARBON DISULFIDE	5.65	1,530	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CHLOROBENZENE	0.984	376	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CHLOROETHANE	107	29,800	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CHLOROFORM	0.00918	5.86	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CHLOROMETHANE	0.879	275	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	ETHYLBENZENE	0.26	68.4	**9.75**		2.4	**8.24**		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	**0.41**	J	0.471	**4.08**		1.65
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	ISOPROPYLBENZENE	17.3	2,430	5.13		2.4	4.77		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	0.562		0.471	5.81		1.65
	M,P-XYLENES	NE	NE	59		4.81	54		4.18	ND	U	0.00488	ND	U	0.00386	ND	U	0.00402	ND	U	0.197	5.37		0.942	28.1		3.3
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	METHYLENE CHLORIDE	0.824	409	ND	U	6.01	ND	U	5.22	ND	U	0.0061	ND	U	0.00482	ND	U	0.00503	ND	U	0.246	ND	U	1.18	ND	U	4.12
	NAPHTHALENE	0.0713	43.0	**26.7**		2.4	**25**		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	**10.5**		0.471	**39**		1.65
	N-BUTYLBENZENE	NE	NE	24.9		2.4	24.7		2.09	ND	U	0.00244	0.000216	J	0.00193	ND	U	0.00201	ND	U	0.0985	3.51		0.471	40.4		1.65
	N-PROPYLBENZENE	NE	NE	7.85		2.4	6.74		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	0.893		0.471	9.16		1.65
	O-XYLENE	3.13	898	**24.5**		2.4	**23.1**		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	2.76		0.471	**14.2**		1.65

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		LOCATION CODE		DP079			DP079			DP080			DP080			DP080			DP080			DP080			DP080		
		SAMPLE NO		FFOR0441			FFOR0442			FFOR0443			FFOR0444			FFOR0445			FFOR0446			FFOR0447			FFOR0448		
		SAMPLE DATE		8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11			8-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-10 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	12.7		2.4	13.4		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	0.0272	J	0.0985	6.45		0.471	15.8		1.65
	SEC-BUTYLBENZENE	NE	NE	15.9		2.4	16.1		2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	3.51		0.471	23.6		1.65
	STYRENE	27.7	7,280	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TOLUENE	25.3	5,270	14		2.4	10.2		2.09	ND	U	0.00244	0.00108	J	0.00193	ND	U	0.00201	0.0294	J	0.0985	0.216	J	0.471	1.78		1.65
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	VINYL ACETATE	1.52	2,560	ND	U	2.4	ND	U	2.09	ND	UJ	0.00244	ND	UJ	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.4	ND	U	2.09	ND	U	0.00244	ND	U	0.00193	ND	U	0.00201	ND	U	0.0985	ND	U	0.471	ND	U	1.65
	XYLENES	3.13	814	**83.4**		7.21	**77.2**		6.27	ND	U	0.00731	ND	U	0.00578	ND	U	0.00604	ND	U	0.295	**8.13**		1.41	**42.3**		4.95
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	13		0.64	12		0.64	32.6		0.66	38.7		0.65	31.6	J-	0.64	8.04		0.64	122		0.66	205		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP081			DP081			DP081			DP081			DP081			DP081			DP082			DP082		
			SAMPLE NO	FFOR0449			FFOR0450			FFOR0451			FFOR0452			FFOR0453			FFOR0454			FFOR0455			FFOR0456		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	14.2		4.15	3230		912	4000		891	4240		886	8170		1750	8150		884	25.2		4.21	2.53	J	4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.95	J	6.06	1430		521	1180		568	1980		525	1820		502	2410		277	2.91	J	5.34	1.23	J	4.94
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,4-DINITROPHENOL	1.26	122	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2-CHLOROPHENOL	2.31	391	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.339	29.5		3.74	24.3		3.62	23.4		3.63	24.7		3.56	48.4		3.62	ND	U	0.346	ND	U	0.356
	2-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	2-NITROANILINE	NE	NE	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.678	ND	U	7.47	ND	U	7.23	ND	U	7.26	ND	U	7.12	ND	U	7.25	ND	U	0.693	ND	U	0.712
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	3-NITROANILINE	NE	NE	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	4-CHLOROANILINE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	4-NITROANILINE	NE	NE	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	ACENAPHTHYLENE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	0.054	J	0.346	ND	U	0.356
	ANTHRACENE	5,410	17,200	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	0.18	J	0.346	0.0261	J	0.356
	BENZENAMINE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BENZO(A)PYRENE	0.52	0.148	0.0331	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0381	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BENZO(GHI)PERYLENE	NE	NE	0.0365	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	0.0761	J	0.346	0.0155	J	0.356
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0157	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	0.348		0.346	ND	U	0.356
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	CARBAZOLE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	0.0554	J	0.346	ND	U	0.356
	CHRYSENE	160	147	0.032	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0168	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	DIBENZOFURAN	NE	NE	ND	U	0.339	0.892	J	3.74	ND	U	3.62	0.852	J	3.63	0.866	J	3.56	1.62	J	3.62	ND	U	0.346	ND	U	0.356
	DIETHYL PHTHALATE	193	48,900	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	FLUORANTHENE	2,430	2,290	0.0279	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	FLUORENE	406	2,290	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	0.56	J	3.62	ND	U	0.346	ND	U	0.356
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	UJ	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0326	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	ISOPHORONE	3.84	5,120	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	NAPHTHALENE	0.0713	43.0	ND	U	0.339	**13.9**		3.74	**11.7**		3.62	**12**	J-	3.63	**12.8**		3.56	**24.3**		3.62	ND	U	0.346	ND	U	0.356
	NITROBENZENE	0.0125	53.5	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP081			DP081			DP081			DP081			DP081			DP081			DP082			DP082		
			SAMPLE NO	FFOR0449			FFOR0450			FFOR0451			FFOR0452			FFOR0453			FFOR0454			FFOR0455			FFOR0456		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.7	ND	U	18.7	ND	U	18.1	ND	U	18.1	ND	U	17.8	ND	U	18.1	ND	U	1.73	ND	U	1.78
	PHENANTHRENE	571	1,830	0.016	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	PHENOL	99.5	18,300	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	PYRENE	1,790	1,720	0.0226	J	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
	PYRIDINE	NE	NE	ND	U	0.339	ND	U	3.74	ND	U	3.62	ND	U	3.63	ND	U	3.56	ND	U	3.62	ND	U	0.346	ND	U	0.356
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00226	48.5		1.06	68.9		1.63	72.4	J-	2.08	87.8		1.62	351		4.02	ND	U	0.00183	ND	U	0.00203
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00226	12.9		1.06	18		1.63	19		2.08	21.2		1.62	86.5		4.02	ND	U	0.00183	ND	U	0.00203
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	1-CHLOROHEXANE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	2-BUTANONE	25.5	37,100	0.00596		0.00565	ND	U	2.65	ND	U	4.06	ND	U	5.2	ND	U	4.04	ND	U	10	0.00986		0.00458	0.00363	J	0.00508
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	2-HEXANONE	NE	NE	ND	U	0.00565	ND	U	2.65	ND	U	4.06	ND	U	5.2	ND	U	4.04	ND	U	10	ND	U	0.00458	ND	U	0.00508
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0283	ND	UJ	13.2	ND	UJ	20.3	ND	UJ	26	ND	UJ	20.2	ND	UJ	50.2	ND	U	0.0229	ND	U	0.0254
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0283	ND	U	13.2	ND	U	20.3	ND	U	26	ND	U	20.2	ND	U	50.2	ND	U	0.0229	ND	U	0.0254
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00565	ND	U	2.65	ND	U	4.06	ND	U	5.2	ND	U	4.04	ND	U	10	ND	U	0.00458	ND	U	0.00508
	ACETONE	77.1	66,600	0.0231	J	0.0283	ND	U	13.2	ND	U	20.3	ND	U	26	ND	U	20.2	ND	U	50.2	0.0418		0.0229	0.00555	J	0.0254
	BENZENE	0.0345	15.4	0.000926	J	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	**1.25**	J	4.02	0.00107	J	0.00183	0.000495	J	0.00203
	BROMOBENZENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	BROMOFORM	12.1	6,116	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	BROMOMETHANE	0.0385	16.5	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CHLOROBENZENE	0.984	376	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CHLOROETHANE	107	29,800	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CHLOROFORM	0.00918	5.86	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	0.000717	J	0.00183	ND	U	0.00203
	CHLOROMETHANE	0.879	275	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	ETHYLBENZENE	0.26	68.4	ND	U	0.00226	**2.14**		1.06	**3.17**		1.63	**9.09**		2.08	**14.8**		1.62	**80.9**		4.02	ND	U	0.00183	ND	U	0.00203
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00226	2.41		1.06	3.39		1.63	5.61		2.08	7.29		1.62	**31.1**		4.02	ND	U	0.00183	ND	U	0.00203
	M,P-XYLENES	NE	NE	ND	U	0.00452	8.29		2.12	11.7		3.25	20.1		4.16	23.5		3.23	103		8.04	ND	U	0.00366	ND	U	0.00406
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00565	ND	U	2.65	ND	U	4.06	ND	U	5.2	ND	U	4.04	ND	U	10	ND	U	0.00458	ND	U	0.00508
	NAPHTHALENE	0.0713	43.0	ND	U	0.00226	**23.5**		1.06	**35.4**		1.63	**28.9**		2.08	**29.8**		1.62	**90.6**		4.02	ND	U	0.00183	ND	U	0.00203
	N-BUTYLBENZENE	NE	NE	ND	U	0.00226	23.5		1.06	32.1		1.63	35.9		2.08	36.5		1.62	128		4.02	ND	U	0.00183	ND	U	0.00203
	N-PROPYLBENZENE	NE	NE	ND	U	0.00226	6.81		1.06	9.38		1.63	14.7		2.08	18.9		1.62	81.9		4.02	ND	U	0.00183	ND	U	0.00203
	O-XYLENE	3.13	898	ND	U	0.00226	**4.9**		1.06	**7.01**		1.63	**10.7**		2.08	**12.3**		1.62	**54.4**		4.02	ND	U	0.00183	ND	U	0.00203

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP081			DP081			DP081			DP081			DP081			DP081			DP082			DP082		
		SAMPLE NO		FFOR0449			FFOR0450			FFOR0451			FFOR0452			FFOR0453			FFOR0454			FFOR0455			FFOR0456		
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00226	7.96		1.06	11.1		1.63	11.8		2.08	12.7		1.62	45.7		4.02	ND	U	0.00183	ND	U	0.00203
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00226	11.1		1.06	15.5		1.63	17.8		2.08	20.4		1.62	78.5		4.02	ND	U	0.00183	ND	U	0.00203
	STYRENE	27.7	7,280	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TOLUENE	25.3	5,270	0.000681	J	0.00226	ND	U	1.06	ND	U	1.63	1.37	J	2.08	3.4		1.62	**36.6**		4.02	0.000719	J	0.00183	ND	U	0.00203
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00226	ND	UJ	1.06	ND	UJ	1.63	ND	UJ	2.08	ND	UJ	1.62	ND	UJ	4.02	ND	U	0.00183	ND	UJ	0.00203
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00226	ND	U	1.06	ND	U	1.63	ND	U	2.08	ND	U	1.62	ND	U	4.02	ND	U	0.00183	ND	U	0.00203
	XYLENES	3.13	814	ND	U	0.00678	**13.2**		3.18	**18.7**		4.88	**30.9**		6.24	**35.7**		4.85	**158**		12.1	ND	U	0.00549	ND	U	0.00609
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	63.4		0.62	18.8	J	0.68	40.8	J	0.66	41.2	J-	0.66	32.4		0.66	21		0.66	18.2		0.64	9.56		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP082			DP082			DP082			DP083			DP083			DP083			DP083			DP083		
			SAMPLE NO	FFOR0457			FFOR0458			FFOR0459			FFOR0460			FFOR0461			FFOR0462			FFOR0463			FFOR0464		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.4	2.15	J	4.5	1340		86.6	12.8		4.15	2.03	J	4.39	45.5		4.34	43.1		4.48	2650		229
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.37	J	6.58	ND	U	5.87	103	J+	4.55	7.18		5.99	2.43	J	5.49	2.04	J	6.39	1.32	J	5.17	202	J+	56.7
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.371	5.72	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	7.58	J	0.376
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.743	ND	U	0.707	ND	U	0.685	ND	U	0.721	ND	U	0.724	ND	U	0.729	ND	U	0.753
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	0.0217	J	0.343	ND	U	0.361	0.0328	J	0.362	0.0325	J	0.365	ND	U	0.376
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.371	0.131	J	0.354	0.0701	J	0.343	ND	U	0.361	0.042	J	0.362	0.0259	J	0.365	0.138	J	0.376
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.371	0.249	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	0.348	J	0.376
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.371	**0.181**	J	0.354	ND	U	0.343	ND	U	0.361	**0.244**	J	0.362	**0.222**	J	0.365	**0.343**	J	0.376
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.371	0.391	J	0.354	ND	U	0.343	ND	U	0.361	0.125	J	0.362	0.0814	J	0.365	0.56	J	0.376
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	0.022	J	0.371	0.105	J	0.354	0.0416	J	0.343	ND	U	0.361	1.9		0.362	2.32		0.365	0.215	J	0.376
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.371	0.131	J	0.354	ND	U	0.343	ND	U	0.361	0.0766	J	0.362	0.0517	J	0.365	0.201	J	0.376
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	0.03	J	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.371	0.238	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	0.354	J	0.376
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.371	0.0311	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	0.058	J	0.376
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.371	0.566	J	0.354	0.018	J	0.343	ND	U	0.361	0.00875	J	0.362	ND	U	0.365	0.714	J	0.376
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.371	0.308	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	0.254	J	0.376
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.371	0.0985	J	0.354	ND	U	0.343	ND	U	0.361	**1.8**		0.362	**2.13**		0.365	0.202	J	0.376
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.371	**0.669**	J	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	**2.09**	J	0.376
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP082			DP082			DP082			DP083			DP083			DP083			DP083			DP083		
		SAMPLE NO		FFOR0457			FFOR0458			FFOR0459			FFOR0460			FFOR0461			FFOR0462			FFOR0463			FFOR0464		
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.86	ND	U	1.77	ND	U	1.71	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.88
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.371	0.638	J	0.354	0.0114	J	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	0.506	J	0.376
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
	PYRENE	1,790	1,720	0.0197	J	0.361	ND	U	0.371	0.786	J	0.354	0.0173	J	0.343	ND	U	0.361	0.0325	J	0.362	0.0199	J	0.365	1.17	J	0.376
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.371	ND	U	0.354	ND	U	0.343	ND	U	0.361	ND	U	0.362	ND	U	0.365	ND	U	0.376
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00242	0.000515	J	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	3.6		0.0941
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00242	0.000494	J	0.00237	2.58		0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	2.3		0.0941
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	1-CHLOROHEXANE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	2-BUTANONE	25.5	37,100	0.00637		0.00604	0.00502	J	0.00592	0.13	J	0.232	0.013		0.00616	0.00371	J	0.00564	ND	U	0.00575	0.00471	J	0.00814	ND	U	0.235
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	2-HEXANONE	NE	NE	ND	U	0.00604	ND	U	0.00592	ND	U	0.232	ND	U	0.00616	ND	U	0.00564	ND	U	0.00575	ND	U	0.00814	ND	U	0.235
	2-PROPENAL	0.000146	0.404	ND	U	0.0302	ND	U	0.0296	ND	UJ	1.16	ND	UJ	0.0308	ND	UJ	0.0282	ND	U	0.0287	ND	UJ	0.0407	ND	UJ	1.18
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0302	ND	U	0.0296	ND	U	1.16	ND	U	0.0308	ND	U	0.0282	ND	U	0.0287	ND	U	0.0407	ND	U	1.18
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00604	ND	U	0.00592	ND	U	0.232	ND	U	0.00616	ND	U	0.00564	ND	U	0.00575	ND	U	0.00814	ND	U	0.235
	ACETONE	77.1	66,600	0.0266	J	0.0302	0.00462	J	0.0296	0.34	J	1.16	0.0563		0.0308	0.0068	J	0.0282	0.0113	J	0.0287	0.0136	J	0.0407	ND	U	1.18
	BENZENE	0.0345	15.4	0.000577	J	0.00242	0.00251		0.00237	ND	U	0.093	0.000581	J	0.00246	0.000354	J	0.00226	0.000749	J	0.0023	0.000503	J	0.00326	0.0138	J	0.0941
	BROMOBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	BROMOFORM	12.1	6,116	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	BROMOMETHANE	0.0385	16.5	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CHLOROBENZENE	0.984	376	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CHLOROETHANE	107	29,800	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CHLOROFORM	0.00918	5.86	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CHLOROMETHANE	0.879	275	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	ETHYLBENZENE	0.26	68.4	ND	U	0.00242	0.000307	J	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.0652	J	0.0941
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.0489	J	0.0941
	M,P-XYLENES	NE	NE	ND	U	0.00483	0.00141	J	0.00474	ND	U	0.186	ND	U	0.00493	ND	U	0.00451	ND	U	0.0046	ND	U	0.00651	0.395		0.188
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00604	ND	U	0.00592	ND	U	0.232	ND	U	0.00616	ND	U	0.00564	ND	U	0.00575	ND	U	0.00814	ND	U	0.235
	NAPHTHALENE	0.0713	43.0	ND	U	0.00242	ND	U	0.00237	**1.13**		0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	**3.37**		0.0941
	N-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.629		0.0941
	N-PROPYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.129		0.0941
	O-XYLENE	3.13	898	ND	U	0.00242	0.0013	J	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.163		0.0941

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP082			DP082			DP082			DP083			DP083			DP083			DP083			DP083				
		SAMPLE NO		FFOR0457			FFOR0458			FFOR0459			FFOR0460			FFOR0461			FFOR0462			FFOR0463			FFOR0464				
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG				
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00237	1.13		0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.672		0.0941		
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	0.263		0.0941		
	STYRENE	27.7	7,280	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TOLUENE	25.3	5,270	0.000694	J	0.00242	0.00309		0.00237	ND	U	0.093	0.000873	J	0.00246	ND	U	0.00226	ND	U	0.0023	0.000755	J	0.00326	ND	U	0.0941		
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00242	ND	UJ	0.00237	ND	UJ	0.093	ND	UJ	0.00246	ND	UJ	0.00226	ND	U	0.0023	ND	UJ	0.00326	ND	UJ	0.0941		
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00242	ND	U	0.00237	ND	U	0.093	ND	U	0.00246	ND	U	0.00226	ND	U	0.0023	ND	U	0.00326	ND	U	0.0941		
	XYLENES	3.13	814	ND	U	0.00725	0.00271	J	0.0071	ND	U	0.279	ND	U	0.00739	ND	U	0.00677	ND	U	0.0069	ND	U	0.00977	0.558		0.282		
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.59		0.66	10.4		0.69	23.5		0.64	39.1		0.63	8.28		0.65	16.6	J	0.66	5.91	J	0.67	101		0.69		

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP083			DP084			DP084			DP084			DP084			DP084			DP085			DP085		
			SAMPLE NO	FFOR0465			FFOR0466			FFOR0467			FFOR0468			FFOR0469			FFOR0470			FFOR0471			FFOR0472		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2950		218	3.06	J	4.23	9.61		4.36	3640		455	6880		902	7300		883	6.68		4.28	1.59	J	4.46
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1580		553	1.52	J	7.54	0.755	J	4.95	878		469	1900		446	2260		445	1.58	J	6.06	ND	U	4.92
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2-METHYLNAPHTHALENE	NE	NE	36.2		3.54	0.0126	J	0.345	ND	U	0.36	4.71	J	0.377	26		3.72	43.1		3.7	ND	U	0.353	ND	U	0.368
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.708	ND	U	0.69	ND	U	0.719	ND	U	0.754	ND	U	0.744	ND	U	0.74	ND	U	0.706	ND	U	0.735
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.345	0.0519	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	ANTHRACENE	5,410	17,200	0.081	J	0.354	ND	U	0.345	0.0268	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	0.09	J	0.353	0.0243	J	0.368
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BENZO(A)ANTHRACENE	1.57	1.48	0.142	J	0.354	ND	U	0.345	0.0374	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BENZO(A)PYRENE	0.52	0.148	0.109	J	0.354	0.0245	J	0.345	0.101	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	0.143	J	0.354	ND	U	0.345	0.0878	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BENZO(GHI)PERYLENE	NE	NE	0.0629	J	0.354	0.0354	J	0.345	0.191	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0845	J	0.354	0.0215	J	0.345	0.0268	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	0.0239	J	0.353	ND	U	0.368
	CHRYSENE	160	147	0.135	J	0.354	0.0208	J	0.345	0.177	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0205	J	0.354	ND	U	0.345	0.0375	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	0.48	J	0.377	1.01	J	0.372	1.75	J	0.37	ND	U	0.353	ND	U	0.368
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.345	0.0303	J	0.36	0.0199	J	0.377	ND	U	0.372	0.0166	J	0.37	0.0181	J	0.353	0.0283	J	0.368
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	FLUORANTHENE	2,430	2,290	0.315	J	0.354	0.0202	J	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	FLUORENE	406	2,290	0.292	J	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	0.34	J	0.372	0.449	J	0.37	ND	U	0.353	ND	U	0.368
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0532	J	0.354	ND	U	0.345	0.151	J	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	NAPHTHALENE	0.0713	43.0	**13.8**		3.54	ND	U	0.345	ND	U	0.36	ND	U	0.377	**12.3**		3.72	**21.7**		3.7	ND	U	0.353	ND	U	0.368
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP083			DP084			DP084			DP084			DP084			DP084			DP085			DP085		
			SAMPLE NO	FFOR0465			FFOR0466			FFOR0467			FFOR0468			FFOR0469			FFOR0470			FFOR0471			FFOR0472		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.72	ND	U	1.8	ND	U	1.88	ND	U	1.86	ND	U	1.85	ND	U	1.76	ND	U	1.84
	PHENANTHRENE	571	1,830	0.244	J	0.354	ND	U	0.345	0.0181	J	0.36	0.0137	J	0.377	0.0277	J	0.372	0.0445	J	0.37	ND	U	0.353	ND	U	0.368
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	PYRENE	1,790	1,720	0.3	J	0.354	0.0162	J	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.36	ND	U	0.377	ND	U	0.372	ND	U	0.37	ND	U	0.353	ND	U	0.368
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1-DICHLOROETHENE	2.32	449	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,1-DICHLOROPROPENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	1,2,4-TRIMETHYLBENZENE	NE	NE	68.2		1.25	ND	U	0.00243	ND	U	0.00209	9.7		0.194	158		3.45	214		3.67	ND	U	0.0017	ND	U	0.00204
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,3,5-TRIMETHYLBENZENE	NE	NE	19		1.25	ND	U	0.00243	ND	U	0.00209	4.26		0.194	39.4		3.45	48.1		3.67	ND	U	0.0017	ND	U	0.00204
	1,3-DICHLOROBENZENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	1,3-DICHLOROPROPANE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	1-CHLOROHEXANE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	2,2-DICHLOROPROPANE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	2-BUTANONE	25.5	37,100	ND	U	3.12	0.00437	J	0.00607	0.00583		0.00523	ND	U	0.486	ND	U	8.63	ND	U	9.18	ND	U	0.00426	0.00379	J	0.00511
	2-CHLOROTOLUENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	5.41		3.67	ND	U	0.0017	ND	U	0.00204
	2-HEXANONE	NE	NE	ND	U	3.12	ND	U	0.00607	ND	U	0.00523	ND	U	0.486	ND	U	8.63	ND	U	9.18	ND	U	0.00426	ND	U	0.00511
	2-PROPENAL	0.000146	0.404	ND	UJ	15.6	ND	U	0.0304	ND	U	0.0261	ND	UJ	2.43	ND	UJ	43.1	ND	U	45.9	ND	UJ	0.0213	ND	U	0.0256
	2-PROPENENITRILE	0.0016969	4.55	ND	U	15.6	ND	U	0.0304	ND	U	0.0261	ND	U	2.43	ND	U	43.1	ND	U	45.9	ND	U	0.0213	ND	U	0.0256
	4-CHLOROTOLUENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	3.12	ND	U	0.00607	ND	U	0.00523	ND	U	0.486	ND	U	8.63	ND	U	9.18	ND	U	0.00426	ND	U	0.00511
	ACETONE	77.1	66,600	ND	U	15.6	0.0162	J	0.0304	ND	U	0.0261	ND	U	2.43	ND	U	43.1	ND	U	45.9	ND	UJ	0.0213	0.0118	J	0.0256
	BENZENE	0.0345	15.4	ND	U	1.25	0.00154	J	0.00243	0.000724	J	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	0.000866	J	0.0017	0.000373	J	0.00204
	BROMOBENZENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	BROMOCHLOROMETHANE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	BROMOFORM	12.1	6,116	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	BROMOMETHANE	0.0385	16.5	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CARBON DISULFIDE	5.65	1,530	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CHLOROBENZENE	0.984	376	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	CHLOROETHANE	107	29,800	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CHLOROFORM	0.00918	5.86	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CHLOROMETHANE	0.879	275	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	DIBROMOMETHANE	0.0342	51.6	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	ETHYLBENZENE	0.26	68.4	**8.2**		1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	**26.8**		3.45	**42.7**		3.67	ND	U	0.0017	ND	U	0.00204
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	UJ	0.0017	ND	U	0.00204
	ISOPROPYLBENZENE	17.3	2,430	4.62		1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	12.8		3.45	**17.8**		3.67	ND	UJ	0.0017	ND	U	0.00204
	M,P-XYLENES	NE	NE	22		2.5	ND	U	0.00486	ND	U	0.00418	0.553		0.388	42.2		6.9	57.6		7.34	ND	UJ	0.0034	ND	U	0.00409
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	METHYLENE CHLORIDE	0.824	409	ND	U	3.12	ND	U	0.00607	ND	U	0.00523	ND	U	0.486	ND	U	8.63	ND	U	9.18	ND	U	0.00426	ND	U	0.00511
	NAPHTHALENE	0.0713	43.0	**25**		1.25	ND	U	0.00243	ND	U	0.00209	**5.64**		0.194	**50**		3.45	**65.4**		3.67	ND	U	0.0017	ND	U	0.00204
	N-BUTYLBENZENE	NE	NE	19.8		1.25	ND	U	0.00243	ND	U	0.00209	0.482		0.194	58.1		3.45	81.1		3.67	ND	UJ	0.0017	ND	U	0.00204
	N-PROPYLBENZENE	NE	NE	10.8		1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	36.1		3.45	46		3.67	ND	U	0.0017	ND	U	0.00204
	O-XYLENE	3.13	898	**7.96**		1.25	ND	U	0.00243	ND	U	0.00209	0.119	J	0.194	**20.5**		3.45	**30.2**		3.67	ND	U	0.0017	ND	U	0.00204

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP083			DP084			DP084			DP084			DP084			DP084			DP085			DP085		
		SAMPLE NO		FFOR0465			FFOR0466			FFOR0467			FFOR0468			FFOR0469			FFOR0470			FFOR0471			FFOR0472		
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	9.18		1.25	ND	U	0.00243	ND	U	0.00209	7.85		0.194	22.4		3.45	28.2		3.67	ND	UJ	0.0017	ND	U	0.00204
	SEC-BUTYLBENZENE	NE	NE	11.3		1.25	ND	U	0.00243	ND	U	0.00209	5.15		0.194	35.5		3.45	47.6		3.67	ND	UJ	0.0017	ND	U	0.00204
	STYRENE	27.7	7,280	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TERT-BUTYLBENZENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TETRACHLOROETHENE	0.00861	7.02	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TOLUENE	25.3	5,270	1.53		1.25	ND	U	0.00243	0.000594	J	0.00209	ND	U	0.194	3.17	J	3.45	12.6		3.67	0.000253	J	0.0017	ND	U	0.00204
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TRICHLOROETHENE	0.0211	8.77	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	VINYL ACETATE	1.52	2,560	ND	UJ	1.25	ND	U	0.00243	ND	U	0.00209	ND	UJ	0.194	ND	UJ	3.45	ND	UJ	3.67	ND	U	0.0017	ND	UJ	0.00204
	VINYL CHLORIDE	0.00108	0.728	ND	U	1.25	ND	U	0.00243	ND	U	0.00209	ND	U	0.194	ND	U	3.45	ND	U	3.67	ND	U	0.0017	ND	U	0.00204
	XYLENES	3.13	814	**30**		3.75	ND	U	0.00728	ND	U	0.00628	0.672		0.583	**62.7**		10.4	**87.7**		11	ND	U	0.00511	ND	U	0.00613
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	94.6		0.65	5.42		0.63	17.8		0.65	55.6		0.69	57.9		0.68	38.7		0.67	8.16	J-	0.64	4.55		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP085			DP085			DP085			DP085			DP086			DP086			DP086			DP086		
		SAMPLE NO		FFOR0473			FFOR0474			FFOR0475			FFOR0476			FFOR0477			FFOR0478			FFOR0479			FFOR0480		
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-15 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	387		45.6	737		91.1	717		86.2	6.4		4.23	2.13	J	4.31	ND	U	4.27	5990		449
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.86	1.93	J+	4.35	28.6	J+	6.16	24.8	J+	10.8	1.63	J	4.73	ND	U	6.22	ND	U	5.8	1840		698
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.375	0.916	J	0.376	0.52		0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	30.6		3.74
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.749	ND	U	0.751	ND	U	0.711	ND	U	0.689	ND	U	0.714	ND	U	0.707	ND	U	0.748
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.375	0.0654	J	0.376	0.0485	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	ANTHRACENE	5,410	17,200	0.0126	J	0.36	ND	U	0.375	0.0923	J	0.376	0.0668	J	0.356	0.0448	J	0.344	0.0321	J	0.357	ND	U	0.354	0.083	J	0.374
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.375	0.197	J	0.376	0.162	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.142	J	0.374
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	0.0516	J	0.375	**0.167**	J	0.376	0.109	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.102	J	0.374
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.375	0.191	J	0.376	0.13	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.129	J	0.374
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	0.146	J	0.375	0.0816	J	0.376	0.0581	J	0.356	0.0133	J	0.344	ND	U	0.357	0.0181	J	0.354	0.0341	J	0.374
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.375	0.0963	J	0.376	0.0739	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.0511	J	0.374
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	0.582		0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.375	0.197	J	0.376	0.133	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.128	J	0.374
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	0.0246	J	0.375	0.0242	J	0.376	0.0201	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.0137	J	0.374
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.375	0.0705	J	0.376	0.0483	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.693	J	0.374
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	DI-N-BUTYL PHTHALATE	139	6,110	0.0235	J	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.375	0.461	J	0.376	0.337	J	0.356	0.00877	J	0.344	ND	U	0.357	ND	U	0.354	0.287	J	0.374
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.375	0.084	J	0.376	0.0582	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	0.112	J	0.375	0.0912	J	0.376	0.059	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.0433	J	0.374
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.375	**0.219**	J	0.376	**0.116**	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	**12.1**		3.74
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP085			DP085			DP085			DP085			DP086			DP086			DP086			DP086		
			SAMPLE NO	FFOR0473			FFOR0474			FFOR0475			FFOR0476			FFOR0477			FFOR0478			FFOR0479			FFOR0480		
			SAMPLE DATE	9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-15 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.87	ND	U	1.88	ND	U	1.78	ND	U	1.72	ND	U	1.79	ND	U	1.77	ND	U	1.87
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.375	0.281	J	0.376	0.214	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.245	J	0.374
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
	PYRENE	1,790	1,720	ND	U	0.36	0.024	J	0.375	0.389	J	0.376	0.28	J	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	0.23	J	0.374
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.375	ND	U	0.376	ND	U	0.356	ND	U	0.344	ND	U	0.357	ND	U	0.354	ND	U	0.374
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00199	0.000368	J	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	57.5		1.18
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00199	0.000293	J	0.00171	0.139		0.12	0.16		0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	14.5		1.18
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	1-CHLOROHEXANE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	2-BUTANONE	25.5	37,100	0.00394	J	0.00498	0.00615		0.00427	ND	U	0.3	ND	U	0.271	0.00838	J	0.00516	0.0051	J	0.00534	ND	U	0.0058	ND	U	2.96
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	2-HEXANONE	NE	NE	ND	U	0.00498	ND	U	0.00427	ND	U	0.3	ND	U	0.271	ND	U	0.00516	ND	U	0.00534	ND	U	0.0058	ND	U	2.96
	2-PROPENAL	0.000146	0.404	ND	U	0.0249	ND	U	0.0213	ND	UJ	1.5	ND	UJ	1.35	ND	U	0.0258	ND	U	0.0267	ND	U	0.029	ND	UJ	14.8
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0249	ND	U	0.0213	ND	U	1.5	ND	U	1.35	ND	U	0.0258	ND	U	0.0267	ND	U	0.029	ND	U	14.8
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00498	ND	U	0.00427	ND	U	0.3	ND	U	0.271	ND	U	0.00516	ND	U	0.00534	ND	U	0.0058	ND	U	2.96
	ACETONE	77.1	66,600	0.00805	J	0.0249	0.0158	J	0.0213	ND	U	1.5	ND	U	1.35	0.0448	J	0.0258	0.021	J	0.0267	0.0106	J	0.029	ND	U	14.8
	BENZENE	0.0345	15.4	0.000323	J	0.00199	0.00142	J	0.00171	**0.0544**	J	0.12	**0.0466**	J	0.108	0.00117	J	0.00207	0.000491	J	0.00213	0.000454	J	0.00232	ND	U	1.18
	BROMOBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	BROMOFORM	12.1	6,116	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	BROMOMETHANE	0.0385	16.5	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CHLOROBENZENE	0.984	376	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CHLOROETHANE	107	29,800	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CHLOROFORM	0.00918	5.86	ND	U	0.00199	ND	U	0.00171	**0.16**		0.12	**0.147**		0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CHLOROMETHANE	0.879	275	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	UJ	1.18
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	ETHYLBENZENE	0.26	68.4	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	**5.77**		1.18
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	3.47		1.18
	M,P-XYLENES	NE	NE	ND	U	0.00398	0.000537	J	0.00342	ND	U	0.24	ND	U	0.217	ND	U	0.00413	ND	U	0.00427	ND	U	0.00464	10		2.37
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00498	ND	U	0.00427	0.134	J	0.3	0.12	J	0.271	ND	U	0.00516	ND	U	0.00534	ND	U	0.0058	**2.3**	J	2.96
	NAPHTHALENE	0.0713	43.0	ND	U	0.00199	ND	U	0.00171	**0.63**		0.12	**0.696**		0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	**31.1**		1.18
	N-BUTYLBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	28.6		1.18
	N-PROPYLBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	8.45		1.18
	O-XYLENE	3.13	898	ND	U	0.00199	0.000863	J	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	**4.09**		1.18

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP085			DP085			DP085			DP085			DP086			DP086			DP086			DP086		
		SAMPLE NO		FFOR0473			FFOR0474			FFOR0475			FFOR0476			FFOR0477			FFOR0478			FFOR0479			FFOR0480		
		SAMPLE DATE		9-Jul-11			9-Jul-11			9-Jul-11			9-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-15 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00199	ND	U	0.00171	0.0955	J	0.12	0.0849	J	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	10.8		1.18
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	12.5		1.18
	STYRENE	27.7	7,280	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TOLUENE	25.3	5,270	ND	U	0.00199	0.00173		0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	0.000873	J	0.00232	0.824	J	1.18
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00199	ND	U	0.00171	ND	U	0.12	ND	U	0.108	ND	U	0.00207	ND	U	0.00213	ND	U	0.00232	ND	U	1.18
	XYLENES	3.13	814	ND	U	0.00597	0.0014	J	0.00512	ND	U	0.359	ND	U	0.325	ND	U	0.0062	ND	U	0.0064	ND	U	0.00696	**14.2**		3.55
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.07		0.66	8.98		0.68	4.39		0.69	4.76		0.65	33.6		0.63	9.22		0.65	4.28		0.65	11.1		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP086			DP087			DP087			DP087			DP087			DP087			DP087			DP088		
			SAMPLE NO	FFOR0481			FFOR0482			FFOR0483			FFOR0484			FFOR0485			FFOR0486			FFOR0487			FFOR0488		
			SAMPLE DATE	10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4990		449	6.65		4.3	3.35	J	4.27	10300	J	1820	2100	J	231	4100		444	3660		439	2.47	J	4.1
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1470		552	ND	U	5.43	ND	U	5.02	866		593	869		601	2540		569	2020		608	ND	U	5.33
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2-CHLOROPHENOL	2.31	391	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2-METHYLNAPHTHALENE	NE	NE	14.3		3.67	ND	U	0.355	ND	U	0.353	6.79	J	3.74	1.29	J	0.381	11.9		3.72	16.7		3.61	ND	U	0.343
	2-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	2-NITROPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.733	ND	U	0.71	ND	U	0.707	ND	U	0.748	ND	U	0.762	ND	U	0.743	ND	U	0.722	ND	U	0.686
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	4-CHLOROANILINE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	ACENAPHTHENE	338	3,440	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	ACENAPHTHYLENE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	ANTHRACENE	5,410	17,200	0.0222	J	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZENAMINE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZO(A)ANTHRACENE	1.57	1.48	0.0311	J	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZO(A)PYRENE	0.52	0.148	0.0213	J	0.367	ND	U	0.355	0.0471	J	0.353	0.0249	J	0.374	0.0175	J	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.367	ND	U	0.355	ND	U	0.353	0.0398	J	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.367	0.019	J	0.355	0.273	J	0.353	0.0205	J	0.374	0.0136	J	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	0.0157	J	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	CARBAZOLE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	CHRYSENE	160	147	0.0263	J	0.367	0.0169	J	0.355	0.0201	J	0.353	0.0379	J	0.374	0.035	J	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	DIBENZOFURAN	NE	NE	0.462	J	0.367	ND	U	0.355	ND	U	0.353	0.536	J	0.374	0.286	J	0.381	0.987	J	0.372	1.14	J	0.361	ND	U	0.343
	DIETHYL PHTHALATE	193	48,900	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	0.0286	J	0.381	0.0295	J	0.372	0.0345	J	0.361	0.0241	J	0.343
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	FLUORANTHENE	2,430	2,290	0.0615	J	0.367	0.0197	J	0.355	0.0208	J	0.353	0.0521	J	0.374	0.0373	J	0.381	0.0119	J	0.372	ND	U	0.361	ND	U	0.343
	FLUORENE	406	2,290	0.141	J	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.367	ND	U	0.355	0.146	J	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	ISOPHORONE	3.84	5,120	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	NAPHTHALENE	0.0713	43.0	**6.49**	J	0.367	ND	U	0.355	ND	U	0.353	**4.91**	J	0.374	**0.115**	J	0.381	**2.08**	J	0.372	**3.85**	J	0.361	ND	U	0.343
	NITROBENZENE	0.0125	53.5	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP086			DP087			DP087			DP087			DP087			DP087			DP087			DP088		
		SAMPLE NO		FFOR0481			FFOR0482			FFOR0483			FFOR0484			FFOR0485			FFOR0486			FFOR0487			FFOR0488		
		SAMPLE DATE		10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.78	ND	U	1.77	ND	U	1.87	ND	U	1.9	ND	U	1.86	ND	U	1.8	ND	U	1.71
	PHENANTHRENE	571	1,830	0.0575	J	0.367	0.013	J	0.355	ND	U	0.353	0.0342	J	0.374	0.0263	J	0.381	0.0385	J	0.372	0.0349	J	0.361	ND	U	0.343
	PHENOL	99.5	18,300	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	PYRENE	1,790	1,720	0.0543	J	0.367	0.018	J	0.355	0.0175	J	0.353	0.0462	J	0.374	0.0379	J	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
	PYRIDINE	NE	NE	ND	U	0.367	ND	U	0.355	ND	U	0.353	ND	U	0.374	ND	U	0.381	ND	U	0.372	ND	U	0.361	ND	U	0.343
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2,4-TRIMETHYLBENZENE	NE	NE	54.5		2.07	ND	U	0.00251	ND	U	0.00177	48.6	J	1.29	8.59	J	1.2	100		2.1	93		2.28	ND	U	0.00276
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,3,5-TRIMETHYLBENZENE	NE	NE	13.5		2.07	ND	U	0.00251	ND	U	0.00177	13.1	J	1.29	2.64	J	1.2	25.1		2.1	22.9		2.28	ND	U	0.00276
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	1-CHLOROHEXANE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	2-BUTANONE	25.5	37,100	ND	U	5.17	0.00442	J	0.00628	0.00426	J	0.00442	ND	U	3.22	ND	U	2.99	ND	U	5.24	ND	U	5.69	0.00713		0.00691
	2-CHLOROTOLUENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	2-HEXANONE	NE	NE	ND	U	5.17	ND	U	0.00628	ND	U	0.00442	ND	U	3.22	ND	U	2.99	ND	U	5.24	ND	U	5.69	ND	U	0.00691
	2-PROPENAL	0.000146	0.404	ND	UJ	25.8	ND	U	0.0314	ND	U	0.0221	ND	UJ	16.1	ND	UJ	14.9	ND	UJ	26.2	ND	UJ	28.5	ND	U	0.0345
	2-PROPENENITRILE	0.0016969	4.55	ND	U	25.8	ND	U	0.0314	ND	U	0.0221	ND	U	16.1	ND	U	14.9	ND	U	26.2	ND	U	28.5	ND	U	0.0345
	4-CHLOROTOLUENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	5.17	ND	U	0.00628	ND	U	0.00442	ND	U	3.22	ND	U	2.99	ND	U	5.24	ND	U	5.69	ND	U	0.00691
	ACETONE	77.1	66,600	ND	U	25.8	ND	U	0.0314	0.0116	J	0.0221	ND	U	16.1	ND	U	14.9	ND	U	26.2	ND	U	28.5	0.0158	J	0.0345
	BENZENE	0.0345	15.4	ND	U	2.07	0.00134	J	0.00251	0.000835	J	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	**0.247**	J	2.28	0.00243	J	0.00276
	BROMOBENZENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	BROMOFORM	12.1	6,116	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	BROMOMETHANE	0.0385	16.5	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CARBON DISULFIDE	5.65	1,530	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CHLOROBENZENE	0.984	376	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CHLOROETHANE	107	29,800	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CHLOROFORM	0.00918	5.86	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CHLOROMETHANE	0.879	275	ND	UJ	2.07	ND	U	0.00251	ND	U	0.00177	ND	UJ	1.29	ND	UJ	1.2	ND	UJ	2.1	ND	UJ	2.28	ND	U	0.00276
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	ETHYLBENZENE	0.26	68.4	**9.8**		2.07	ND	U	0.00251	ND	U	0.00177	**3.58**		1.29	**0.558**	J	1.2	**19.6**		2.1	**21.8**		2.28	0.000322	J	0.00276
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	ISOPROPYLBENZENE	17.3	2,430	4.57		2.07	ND	U	0.00251	ND	U	0.00177	2.19		1.29	0.316	J	1.2	8.43		2.1	8.51		2.28	ND	U	0.00276
	M,P-XYLENES	NE	NE	17.8		4.13	ND	U	0.00503	ND	U	0.00354	7.22		2.58	1.2	J	2.39	27.2		4.19	28.4		4.55	ND	U	0.00553
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	METHYLENE CHLORIDE	0.824	409	**2.64**	J	5.17	ND	U	0.00628	ND	U	0.00442	**2.26**	J	3.22	ND	U	2.99	**2.81**	J	5.24	**3.34**	J	5.69	ND	U	0.00691
	NAPHTHALENE	0.0713	43.0	**24.8**		2.07	ND	U	0.00251	ND	U	0.00177	**19.6**	J	1.29	**3.76**	J	1.2	**31.6**		2.1	**27.5**		2.28	ND	U	0.00276
	N-BUTYLBENZENE	NE	NE	23.3		2.07	ND	U	0.00251	ND	U	0.00177	19.4	J	1.29	2.54		1.2	40.8		2.1	37.9		2.28	ND	U	0.00276
	N-PROPYLBENZENE	NE	NE	10.1		2.07	ND	U	0.00251	ND	U	0.00177	5.8		1.29	0.804	J	1.2	22.9		2.1	21.2		2.28	ND	U	0.00276
	O-XYLENE	3.13	898	**6.67**		2.07	ND	U	0.00251	ND	U	0.00177	2.51		1.29	0.427	J	1.2	**13.8**		2.1	**15.2**		2.28	0.00135	J	0.00276

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP086			DP087			DP087			DP087			DP087			DP087			DP087			DP088		
		SAMPLE NO		FFOR0481			FFOR0482			FFOR0483			FFOR0484			FFOR0485			FFOR0486			FFOR0487			FFOR0488		
		SAMPLE DATE		10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	8.46		2.07	ND	U	0.00251	ND	U	0.00177	7.33	J	1.29	1.13	J	1.2	14.1		2.1	12.7		2.28	ND	U	0.00276
	SEC-BUTYLBENZENE	NE	NE	11.8		2.07	ND	U	0.00251	ND	U	0.00177	9.13		1.29	1.17	J	1.2	22.9		2.1	21.3		2.28	ND	U	0.00276
	STYRENE	27.7	7,280	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TOLUENE	25.3	5,270	2.11		2.07	0.000647	J	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	1.85	J	2.1	6.95		2.28	0.00259	J	0.00276
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	VINYL ACETATE	1.52	2,560	ND	U	2.07	ND	U	0.00251	ND	UJ	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	UJ	0.00276
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.07	ND	U	0.00251	ND	U	0.00177	ND	U	1.29	ND	U	1.2	ND	U	2.1	ND	U	2.28	ND	U	0.00276
	XYLENES	3.13	814	**24.5**		6.2	ND	U	0.00754	ND	U	0.00531	**9.73**		3.87	1.63	J	3.59	**41.1**		6.29	**43.7**		6.83	0.00135	J	0.00829
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.51		0.67	5.55		0.65	36.2		0.64	13.3		0.68	15.3	J-	0.69	36.1		0.68	10.1		0.66	6.38		1.25

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP088			DP088			DP088			DP088			DP089			DP089			DP089			DP089		
			SAMPLE NO	FFOR0489			FFOR0490			FFOR0491			FFOR0492			FFOR0493			FFOR0494			FFOR0495			FFOR0496		
			SAMPLE DATE	10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.91	J	4.34	1.47	J	4.22	ND	U	4.34	ND	U	4.31	5.1		4.08	7.43		4.23	ND	U	4.26	252		45.3
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.88	ND	U	5.73	ND	U	5.47	ND	U	5.1	ND	U	4.39	ND	U	5.11	ND	U	4.97	52.7	J+	4.71
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.707	ND	U	0.689	ND	U	0.728	ND	U	0.709	ND	U	0.685	ND	U	0.706	ND	U	0.708	ND	U	0.74
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	0.0145	J	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	ANTHRACENE	5,410	17,200	0.0203	J	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	0.0474	J	0.342	0.0291	J	0.353	ND	U	0.354	ND	U	0.37
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.0627	J	0.37
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.108	J	0.37
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	0.0224	J	0.342	0.0145	J	0.353	ND	U	0.354	0.146	J	0.37
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.0298	J	0.37
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	CHRYSENE	160	147	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.0342	J	0.37
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	FLUORANTHENE	2,430	2,290	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	0.00699	J	0.342	ND	U	0.353	ND	U	0.354	0.00796	J	0.37
	FLUORENE	406	2,290	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.103	J	0.37
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP088			DP088			DP088			DP088			DP089			DP089			DP089			DP089		
			SAMPLE NO	FFOR0489			FFOR0490			FFOR0491			FFOR0492			FFOR0493			FFOR0494			FFOR0495			FFOR0496		
			SAMPLE DATE	10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.71	ND	U	1.76	ND	U	1.77	ND	U	1.85
	PHENANTHRENE	571	1,830	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
	PYRENE	1,790	1,720	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	0.0646	J	0.37
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.345	ND	U	0.364	ND	U	0.354	ND	U	0.342	ND	U	0.353	ND	U	0.354	ND	U	0.37
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	0.00088	J	0.00218	0.000297	J	0.0019	0.000502	J	0.00213	ND	U	0.00196	0.00041	J	0.00202	0.503	J	1.12
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	0.000643	J	0.00218	ND	U	0.0019	0.000267	J	0.00213	ND	U	0.00196	0.000357	J	0.00202	0.557	J	1.12
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	1-CHLOROHEXANE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	UJ	0.00202	ND	U	1.12
	2-BUTANONE	25.5	37,100	0.00483		0.00473	0.00859		0.00552	0.00415	J	0.00545	ND	U	0.00474	0.00396	J	0.00533	ND	U	0.00489	0.00441	J	0.00506	ND	U	2.81
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	2-HEXANONE	NE	NE	ND	U	0.00473	ND	U	0.00552	ND	U	0.00545	ND	U	0.00474	ND	U	0.00533	ND	U	0.00489	ND	U	0.00506	ND	U	2.81
	2-PROPENAL	0.000146	0.404	ND	U	0.0236	ND	U	0.0276	ND	U	0.0273	ND	U	0.0237	ND	U	0.0266	ND	U	0.0245	ND	U	0.0253	ND	UJ	14.1
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0236	ND	U	0.0276	ND	U	0.0273	ND	U	0.0237	ND	U	0.0266	ND	U	0.0245	ND	U	0.0253	ND	U	14.1
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00473	ND	U	0.00552	ND	U	0.00545	ND	U	0.00474	ND	U	0.00533	ND	U	0.00489	ND	U	0.00506	ND	U	2.81
	ACETONE	77.1	66,600	0.011	J	0.0236	ND	U	0.0276	ND	U	0.0273	0.0163	J	0.0237	0.0125	J	0.0266	0.0117	J	0.0245	ND	U	0.0253	ND	U	14.1
	BENZENE	0.0345	15.4	0.000593	J	0.00189	0.00103	J	0.00221	0.00302		0.00218	0.000834	J	0.0019	0.00248		0.00213	0.000884	J	0.00196	0.00248		0.00202	**0.235**	J	1.12
	BROMOBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	BROMOFORM	12.1	6,116	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	BROMOMETHANE	0.0385	16.5	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CHLOROBENZENE	0.984	376	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CHLOROETHANE	107	29,800	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CHLOROFORM	0.00918	5.86	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CHLOROMETHANE	0.879	275	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	UJ	0.00202	ND	UJ	1.12
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	ETHYLBENZENE	0.26	68.4	ND	U	0.00189	ND	U	0.00221	0.000344	J	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	0.000313	J	0.00202	ND	U	1.12
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	M,P-XYLENES	NE	NE	ND	U	0.00378	ND	U	0.00441	0.00188	J	0.00436	0.000534	J	0.00379	0.00116	J	0.00426	ND	U	0.00392	0.00112	J	0.00404	ND	U	2.25
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00473	ND	U	0.00552	ND	U	0.00545	ND	U	0.00474	ND	U	0.00533	ND	U	0.00489	ND	U	0.00506	**2.19**	J	2.81
	NAPHTHALENE	0.0713	43.0	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	N-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	N-PROPYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	0.000163	J	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	0.000155	J	0.00202	ND	U	1.12
	O-XYLENE	3.13	898	ND	U	0.00189	ND	U	0.00221	0.0014	J	0.00218	ND	U	0.0019	0.000367	J	0.00213	ND	U	0.00196	0.00126	J	0.00202	ND	U	1.12

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP088			DP088			DP088			DP088			DP089			DP089			DP089			DP089		
		SAMPLE NO		FFOR0489			FFOR0490			FFOR0491			FFOR0492			FFOR0493			FFOR0494			FFOR0495			FFOR0496		
		SAMPLE DATE		10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	0.679	J	1.12
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	0.238	J	1.12
	STYRENE	27.7	7,280	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TOLUENE	25.3	5,270	0.000395	J	0.00189	0.000789	J	0.00221	0.00365		0.00218	0.0014	J	0.0019	0.00323		0.00213	0.000679	J	0.00196	0.00243		0.00202	ND	U	1.12
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00189	ND	U	0.00221	ND	U	0.00218	ND	U	0.0019	ND	U	0.00213	ND	U	0.00196	ND	U	0.00202	ND	U	1.12
	XYLENES	3.13	814	ND	U	0.00567	ND	U	0.00662	0.00328	J	0.00654	0.000534	J	0.00569	0.00153	J	0.00639	ND	U	0.00587	0.00237	J	0.00607	ND	U	3.37
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5		0.65	4.33		0.64	6.24		0.66	4.19		0.65	5.93		0.62	7.76		0.64	5.65		0.65	7.82		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP089			DP089			DP090			DP090			DP090			DP090			DP090			DP090		
			SAMPLE NO	FFOR0497			FFOR0498			FFOR0499			FFOR0500			FFOR0501			FFOR0502			FFOR0503			FFOR0504		
			SAMPLE DATE	10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	443		43.5	398		42.5	2.55	J	4.2	7.02		4.16	3.87	J	4.57	ND	U	4.26	ND	U	4.39	ND	U	4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	794		664	835		548	ND	U	4.16	ND	U	4.2	ND	U	6.49	ND	U	5.12	ND	U	5.1	ND	U	5.28
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	1.48		0.355	1.44		0.356	ND	U	0.345	0.0193	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.71	ND	U	0.711	ND	U	0.69	ND	U	0.689	ND	U	0.747	ND	U	0.703	ND	U	0.727	ND	U	0.728
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	0.0305	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.356	ND	U	0.345	0.0797	J	0.344	0.0171	J	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	0.028	J	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	0.0223	J	0.355	0.0174	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	0.0155	J	0.355	0.0143	J	0.356	ND	U	0.345	0.0389	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0155	J	0.355	0.0187	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	0.0384	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	CHRYSENE	160	147	0.0336	J	0.355	0.0311	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.355	0.0749	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.356	ND	U	0.345	0.033	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	FLUORANTHENE	2,430	2,290	0.0342	J	0.355	0.0301	J	0.356	ND	U	0.345	0.017	J	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	0.0354	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP089			DP089			DP090			DP090			DP090			DP090			DP090			DP090		
			SAMPLE NO	FFOR0497			FFOR0498			FFOR0499			FFOR0500			FFOR0501			FFOR0502			FFOR0503			FFOR0504		
			SAMPLE DATE	10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.78	ND	U	1.73	ND	U	1.72	ND	U	1.87	ND	U	1.76	ND	U	1.82	ND	U	1.82
	PHENANTHRENE	571	1,830	0.0282	J	0.355	0.0249	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	PYRENE	1,790	1,720	0.0277	J	0.355	0.028	J	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.345	ND	U	0.344	ND	U	0.373	ND	U	0.352	ND	U	0.363	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2,4-TRIMETHYLBENZENE	NE	NE	34		0.669	24.7		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	0.000483	J	0.00221	ND	U	0.00235
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,3,5-TRIMETHYLBENZENE	NE	NE	9.82		0.669	7.06		0.47	ND	U	0.00184	0.000146	J	0.00184	ND	U	0.00255	ND	U	0.0017	0.000481	J	0.00221	ND	U	0.00235
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	1-CHLOROHEXANE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	2-BUTANONE	25.5	37,100	ND	U	1.67	ND	U	1.18	0.00314	J	0.00461	0.00342	J	0.0046	0.00294	J	0.00638	0.00207	J	0.00424	0.00407	J	0.00552	0.00483	J	0.00587
	2-CHLOROTOLUENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	2-HEXANONE	NE	NE	ND	U	1.67	ND	U	1.18	ND	U	0.00461	ND	U	0.0046	ND	U	0.00638	ND	U	0.00424	ND	U	0.00552	ND	U	0.00587
	2-PROPENAL	0.000146	0.404	ND	U	8.36	ND	UJ	5.88	ND	U	0.0231	ND	U	0.023	ND	U	0.0319	ND	U	0.0212	ND	U	0.0276	ND	U	0.0294
	2-PROPENENITRILE	0.0016969	4.55	ND	U	8.36	ND	U	5.88	ND	U	0.0231	ND	U	0.023	ND	U	0.0319	ND	U	0.0212	ND	U	0.0276	ND	U	0.0294
	4-CHLOROTOLUENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	1.67	ND	U	1.18	ND	U	0.00461	ND	U	0.0046	ND	U	0.00638	ND	U	0.00424	ND	U	0.00552	ND	U	0.00587
	ACETONE	77.1	66,600	ND	U	8.36	ND	U	5.88	ND	U	0.0231	ND	U	0.023	ND	U	0.0319	ND	U	0.0212	ND	U	0.0276	ND	U	0.0294
	BENZENE	0.0345	15.4	**0.0967**	J	0.669	**0.0459**	J	0.47	0.000612	J	0.00184	0.00157	J	0.00184	0.000426	J	0.00255	0.000375	J	0.0017	0.00242		0.00221	0.000672	J	0.00235
	BROMOBENZENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	BROMOFORM	12.1	6,116	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	BROMOMETHANE	0.0385	16.5	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CARBON DISULFIDE	5.65	1,530	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CHLOROBENZENE	0.984	376	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CHLOROETHANE	107	29,800	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CHLOROFORM	0.00918	5.86	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CHLOROMETHANE	0.879	275	ND	U	0.669	ND	UJ	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	ETHYLBENZENE	0.26	68.4	**0.97**		0.669	**0.66**		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	0.000281	J	0.00221	ND	U	0.00235
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	ISOPROPYLBENZENE	17.3	2,430	0.859		0.669	0.596		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	M,P-XYLENES	NE	NE	3.98		1.34	2.68		0.94	ND	U	0.00369	ND	U	0.00368	ND	U	0.0051	ND	U	0.00339	0.00128	J	0.00441	ND	U	0.0047
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	METHYLENE CHLORIDE	0.824	409	ND	U	1.67	ND	U	1.18	ND	U	0.00461	ND	U	0.0046	ND	U	0.00638	ND	U	0.00424	ND	U	0.00552	ND	U	0.00587
	NAPHTHALENE	0.0713	43.0	**15.1**		0.669	**10.6**		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	N-BUTYLBENZENE	NE	NE	8.67		0.669	6.32		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	N-PROPYLBENZENE	NE	NE	2.12		0.669	1.54		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	O-XYLENE	3.13	898	1.62		0.669	1.16		0.47	ND	U	0.00184	0.000888	J	0.00184	ND	U	0.00255	ND	U	0.0017	0.00129	J	0.00221	ND	U	0.00235

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP089			DP089			DP090			DP090			DP090			DP090			DP090			DP090		
		SAMPLE NO		FFOR0497			FFOR0498			FFOR0499			FFOR0500			FFOR0501			FFOR0502			FFOR0503			FFOR0504		
		SAMPLE DATE		10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11			10-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	5.46		0.669	4.32		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	SEC-BUTYLBENZENE	NE	NE	4.4		0.669	3.1		0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	STYRENE	27.7	7,280	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TOLUENE	25.3	5,270	ND	U	0.669	0.158	J	0.47	ND	U	0.00184	0.00139	J	0.00184	ND	U	0.00255	ND	U	0.0017	0.00315		0.00221	0.000808	J	0.00235
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	VINYL ACETATE	1.52	2,560	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.669	ND	U	0.47	ND	U	0.00184	ND	U	0.00184	ND	U	0.00255	ND	U	0.0017	ND	U	0.00221	ND	U	0.00235
	XYLENES	3.13	814	**5.6**		2.01	**3.84**		1.41	ND	U	0.00553	0.000888	J	0.00552	ND	U	0.00765	ND	U	0.00509	0.00257	J	0.00662	ND	U	0.00705
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.14		0.65	4.78		0.65	5.36		0.63	7.68		0.63	4.64		1.38	4.86		0.64	7.49		0.66	5.16		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP091			DP091			DP091			DP091			DP091			DP091			DP092			DP092		
				SAMPLE NO	FFOR0505			FFOR0506			FFOR0507			FFOR0508			FFOR0509			FFOR0510			FFOR0511			FFOR0512		
				SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
				SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.58	J	4.22	2.98	J	4.56	4.52		4.41	1.62	J	4.26	27.3		4.56	1500		220	3.6	J	4.19	20		4.17
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.95	ND	U	5.64	ND	U	6.06	ND	U	4.94	ND	U	4.79	1020		96.5	ND	U	3.91	ND	U	4.55
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2-CHLOROPHENOL	2.31	391	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2-METHYLNAPHTHALENE	NE	NE	0.0774	J	0.344	0.0416	J	0.375	0.0475	J	0.365	ND	U	0.352	0.0232	J	0.373	0.901	J	0.36	0.0708	J	0.347	0.13	J	0.348
	2-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.688	ND	U	0.749	ND	U	0.731	ND	U	0.703	ND	U	0.747	ND	U	0.72	ND	U	0.694	ND	U	0.697
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	4-CHLOROANILINE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	ACENAPHTHYLENE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	ANTHRACENE	5,410	17,200	ND	U	0.344	ND	U	0.375	0.0186	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	0.0348	J	0.348
	BENZENAMINE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.344	ND	U	0.375	0.0494	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	0.0738	J	0.348
	BENZO(A)PYRENE	0.52	0.148	0.019	J	0.344	0.0189	J	0.375	0.0523	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	0.0149	J	0.347	0.082	J	0.348
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.344	ND	U	0.375	0.0725	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	0.093	J	0.348
	BENZO(GHI)PERYLENE	NE	NE	0.0274	J	0.344	0.0286	J	0.375	0.0654	J	0.365	ND	U	0.352	0.155	J	0.373	ND	U	0.36	0.0179	J	0.347	0.0576	J	0.348
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0144	J	0.344	ND	U	0.375	0.0306	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	0.0431	J	0.348
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	CARBAZOLE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	CHRYSENE	160	147	0.0281	J	0.344	0.0251	J	0.375	0.0687	J	0.365	ND	U	0.352	ND	U	0.373	0.0162	J	0.36	ND	U	0.347	0.0986	J	0.348
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.344	ND	U	0.375	0.0135	J	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	DIBENZOFURAN	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	0.0491	J	0.36	ND	U	0.347	ND	U	0.348
	DIETHYL PHTHALATE	193	48,900	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	FLUORANTHENE	2,430	2,290	0.0235	J	0.344	0.0396	J	0.375	0.0831	J	0.365	ND	U	0.352	ND	U	0.373	0.0404	J	0.36	0.0251	J	0.347	0.167	J	0.348
	FLUORENE	406	2,290	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	0.0629	J	0.36	ND	U	0.347	ND	U	0.348
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.344	ND	U	0.375	0.0553	J	0.365	ND	U	0.352	0.15	J	0.373	ND	U	0.36	ND	U	0.347	0.0579	J	0.348
	ISOPHORONE	3.84	5,120	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	NAPHTHALENE	0.0713	43.0	0.0205	J	0.344	ND	U	0.375	0.0221	J	0.365	ND	U	0.352	ND	U	0.373	0.0486	J	0.36	0.0217	J	0.347	0.0551	J	0.348
	NITROBENZENE	0.0125	53.5	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP091			DP091			DP091			DP091			DP091			DP091			DP092			DP092		
			SAMPLE NO	FFOR0505			FFOR0506			FFOR0507			FFOR0508			FFOR0509			FFOR0510			FFOR0511			FFOR0512		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	0.328	J	0.348
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.87	ND	U	1.83	ND	U	1.76	ND	U	1.87	ND	U	1.8	ND	U	1.73	ND	U	1.74
	PHENANTHRENE	571	1,830	ND	U	0.344	0.0238	J	0.375	0.059	J	0.365	ND	U	0.352	ND	U	0.373	0.0318	J	0.36	0.0172	J	0.347	0.111	J	0.348
	PHENOL	99.5	18,300	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
	PYRENE	1,790	1,720	0.0182	J	0.344	0.0257	J	0.375	0.0592	J	0.365	ND	U	0.352	ND	U	0.373	0.0327	J	0.36	0.0201	J	0.347	0.107	J	0.348
	PYRIDINE	NE	NE	ND	U	0.344	ND	U	0.375	ND	U	0.365	ND	U	0.352	ND	U	0.373	ND	U	0.36	ND	U	0.347	ND	U	0.348
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	0.000566	J	0.00175	17.9		0.464	ND	U	0.00225	ND	U	0.00206
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	0.00032	J	0.00175	5.6		0.464	ND	U	0.00225	ND	U	0.00206
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	1-CHLOROHEXANE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	2-BUTANONE	25.5	37,100	0.00548	J	0.00615	0.00408	J	0.0056	0.00335	J	0.00546	0.00395	J	0.00505	0.00278	J	0.00437	ND	U	1.16	0.00529	J	0.00563	0.00566		0.00516
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	2-HEXANONE	NE	NE	ND	U	0.00615	ND	U	0.0056	ND	U	0.00546	ND	U	0.00505	ND	U	0.00437	ND	U	1.16	ND	U	0.00563	ND	U	0.00516
	2-PROPENAL	0.000146	0.404	ND	U	0.0307	ND	U	0.028	ND	UJ	0.0273	ND	UJ	0.0253	ND	U	0.0218	ND	UJ	5.8	ND	U	0.0282	ND	U	0.0258
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0307	ND	U	0.028	ND	U	0.0273	ND	U	0.0253	ND	U	0.0218	ND	U	5.8	ND	U	0.0282	ND	U	0.0258
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00615	ND	U	0.0056	ND	U	0.00546	ND	U	0.00505	ND	U	0.00437	ND	U	1.16	ND	U	0.00563	ND	U	0.00516
	ACETONE	77.1	66,600	0.0106	J	0.0307	0.00543	J	0.028	0.00586	J	0.0273	0.0206	J	0.0253	0.011	J	0.0218	ND	U	5.8	0.0125	J	0.0282	0.00988	J	0.0258
	BENZENE	0.0345	15.4	0.000637	J	0.00246	0.000448	J	0.00224	0.000168	J	0.00218	0.00133	J	0.00202	0.00169	J	0.00175	**0.0507**	J	0.464	0.000744	J	0.00225	0.000628	J	0.00206
	BROMOBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	BROMOFORM	12.1	6,116	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	BROMOMETHANE	0.0385	16.5	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CHLOROBENZENE	0.984	376	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CHLOROETHANE	107	29,800	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	UJ	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CHLOROFORM	0.00918	5.86	0.000836	J	0.00246	0.000655	J	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CHLOROMETHANE	0.879	275	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	UJ	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	ETHYLBENZENE	0.26	68.4	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	0.000316	J	0.00175	**0.408**	J	0.464	ND	U	0.00225	ND	U	0.00206
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	0.768		0.464	ND	U	0.00225	ND	U	0.00206
	M,P-XYLENES	NE	NE	ND	U	0.00492	ND	U	0.00448	ND	U	0.00437	ND	U	0.00404	0.00126	J	0.00349	1.89		0.928	ND	U	0.00451	ND	U	0.00413
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00615	ND	U	0.0056	ND	U	0.00546	ND	U	0.00505	ND	U	0.00437	ND	U	1.16	ND	U	0.00563	ND	U	0.00516
	NAPHTHALENE	0.0713	43.0	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	**5.59**		0.464	ND	U	0.00225	ND	U	0.00206
	N-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	4.56		0.464	ND	U	0.00225	ND	U	0.00206
	N-PROPYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	2.15		0.464	ND	U	0.00225	ND	U	0.00206
	O-XYLENE	3.13	898	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	0.00037	J	0.00175	0.183	J	0.464	ND	U	0.00225	ND	U	0.00206

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP091			DP091			DP091			DP091			DP091			DP091			DP092			DP092		
		SAMPLE NO		FFOR0505			FFOR0506			FFOR0507			FFOR0508			FFOR0509			FFOR0510			FFOR0511			FFOR0512		
		SAMPLE DATE		11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	2.98		0.464	ND	U	0.00225	ND	U	0.00206
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	2.85		0.464	ND	U	0.00225	ND	U	0.00206
	STYRENE	27.7	7,280	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TOLUENE	25.3	5,270	0.00046	J	0.00246	ND	U	0.00224	ND	U	0.00218	0.000897	J	0.00202	0.002		0.00175	ND	U	0.464	0.000827	J	0.00225	0.000518	J	0.00206
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00246	ND	UJ	0.00224	ND	UJ	0.00218	ND	UJ	0.00202	ND	UJ	0.00175	ND	U	0.464	ND	UJ	0.00225	ND	UJ	0.00206
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00246	ND	U	0.00224	ND	U	0.00218	ND	U	0.00202	ND	U	0.00175	ND	U	0.464	ND	U	0.00225	ND	U	0.00206
	XYLENES	3.13	814	ND	U	0.00738	ND	U	0.00672	ND	U	0.00655	ND	U	0.00606	0.00163	J	0.00524	2.07		1.39	ND	U	0.00676	ND	U	0.00619
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.05		0.64	16.6		0.68	12		0.67	5.93	J-	0.65	8.2		0.68	4.61		0.67	6.49		0.63	19.1		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP092			DP092			DP092			DP093			DP093			DP093			DP093			DP093		
			SAMPLE NO	FFOR0513			FFOR0514			FFOR0515			FFOR0516			FFOR0517			FFOR0518			FFOR0519			FFOR0520		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	297		43.3	6250		934	5220		877	7.86		4.19	28.6		4.21	8790		907	8630		890	8510		891
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	0.934	J+	5.43	748	J+	65	1670		655	ND	U	3.95	ND	U	6.19	1760		566	1490		566	1910		535
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	0.0708	J	0.358	7.12	J	0.382	13.7		3.57	0.0161	J	0.35	0.0201	J	0.344	21.9		3.71	23		3.71	23.3		3.66
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.763	ND	U	0.714	ND	U	0.7	ND	U	0.688	ND	U	0.741	ND	U	0.742	ND	U	0.732
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.0197	J	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.0642	J	0.344	0.0776	J	0.371	0.0679	J	0.371	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.109	J	0.344	0.158	J	0.371	0.155	J	0.371	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	0.0295	J	0.358	0.0173	J	0.382	ND	U	0.357	0.0179	J	0.35	0.109	J	0.344	0.116	J	0.371	0.0997	J	0.371	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.14	J	0.344	0.162	J	0.371	0.148	J	0.371	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	0.0696	J	0.358	ND	U	0.382	ND	U	0.357	0.0244	J	0.35	0.144	J	0.344	0.0566	J	0.371	0.0476	J	0.371	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.382	ND	U	0.357	0.0144	J	0.35	0.0689	J	0.344	0.0545	J	0.371	0.0494	J	0.371	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.037	J	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.0241	J	0.344	0.033	J	0.371	0.0229	J	0.371	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.358	0.0194	J	0.382	0.0165	J	0.357	0.0215	J	0.35	0.203	J	0.344	0.1	J	0.371	0.0989	J	0.371	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.0248	J	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.358	0.221	J	0.382	0.373	J	0.357	ND	U	0.35	ND	U	0.344	1.16	J	0.371	1.08	J	0.371	1.02	J	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.358	0.0322	J	0.382	0.0353	J	0.357	0.033	J	0.35	0.179	J	0.344	0.379	J	0.371	0.361	J	0.371	0.0321	J	0.366
	FLUORENE	406	2,290	ND	U	0.358	0.108	J	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0748	J	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	0.0939	J	0.344	0.0591	J	0.371	0.0407	J	0.371	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	0.0215	J	0.358	**1.62**	J	0.382	**3.64**	J	0.357	ND	U	0.35	ND	U	0.344	**7.86**		3.71	**8.43**		3.71	**7.9**		3.66
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP092			DP092			DP092			DP093			DP093			DP093			DP093			DP093		
			SAMPLE NO	FFOR0513			FFOR0514			FFOR0515			FFOR0516			FFOR0517			FFOR0518			FFOR0519			FFOR0520		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.91	ND	U	1.78	ND	U	1.75	ND	U	1.72	ND	U	1.85	ND	U	1.85	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.358	0.0273	J	0.382	0.0349	J	0.357	0.0175	J	0.35	0.086	J	0.344	0.195	J	0.371	0.189	J	0.371	0.0499	J	0.366
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.358	0.0431	J	0.382	0.0341	J	0.357	0.0258	J	0.35	0.154	J	0.344	0.322	J	0.371	0.327	J	0.371	0.026	J	0.366
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.382	ND	U	0.357	ND	U	0.35	ND	U	0.344	ND	U	0.371	ND	U	0.371	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0024	0.228	J	0.229	41.4		0.961	ND	U	0.00202	0.000276	J	0.00243	50.3		1.14	64.6		1.13	86.6		2.41
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0024	0.126	J	0.229	11		0.961	ND	U	0.00202	ND	U	0.00243	13.9		1.14	16.9		1.13	21.3		2.41
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	1-CHLOROHEXANE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	2-BUTANONE	25.5	37,100	0.00607		0.00601	ND	U	0.573	ND	U	2.4	ND	U	0.00505	0.00472	J	0.00608	ND	U	2.84	ND	U	2.83	ND	U	6.03
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.229	1.34		0.961	ND	U	0.00202	ND	U	0.00243	1.62		1.14	ND	U	1.13	ND	U	2.41
	2-HEXANONE	NE	NE	ND	U	0.00601	ND	U	0.573	ND	U	2.4	ND	U	0.00505	ND	U	0.00608	ND	U	2.84	ND	U	2.83	ND	U	6.03
	2-PROPENAL	0.000146	0.404	ND	UJ	0.03	ND	UJ	2.86	ND	UJ	12	ND	UJ	0.0252	ND	U	0.0304	ND	UJ	14.2	ND	UJ	14.2	ND	UJ	30.2
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.03	ND	U	2.86	ND	U	12	ND	U	0.0252	ND	U	0.0304	ND	U	14.2	ND	U	14.2	ND	U	30.2
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00601	ND	U	0.573	ND	U	2.4	ND	U	0.00505	ND	U	0.00608	ND	U	2.84	ND	U	2.83	ND	U	6.03
	ACETONE	77.1	66,600	0.0147	J	0.03	ND	U	2.86	ND	U	12	0.0105	J	0.0252	0.0169	J	0.0304	ND	U	14.2	ND	U	14.2	ND	U	30.2
	BENZENE	0.0345	15.4	0.00154	J	0.0024	0.0313	J	0.229	ND	U	0.961	0.000516	J	0.00202	0.000865	J	0.00243	**0.0882**	J	1.14	**0.286**	J	1.13	ND	U	2.41
	BROMOBENZENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	BROMOFORM	12.1	6,116	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	BROMOMETHANE	0.0385	16.5	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CHLOROBENZENE	0.984	376	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CHLOROETHANE	107	29,800	ND	U	0.0024	ND	UJ	0.229	ND	UJ	0.961	ND	U	0.00202	ND	U	0.00243	ND	UJ	1.14	ND	U	1.13	ND	U	2.41
	CHLOROFORM	0.00918	5.86	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	**0.27**	J	1.13	**3.32**		2.41
	CHLOROMETHANE	0.879	275	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	UJ	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	ETHYLBENZENE	0.26	68.4	ND	U	0.0024	ND	U	0.229	**1.39**		0.961	ND	U	0.00202	ND	U	0.00243	**1.62**		1.14	**1.86**		1.13	**13.3**		2.41
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0024	0.207	J	0.229	1.11		0.961	ND	U	0.00202	ND	U	0.00243	1.32		1.14	1.58		1.13	5.94		2.41
	M,P-XYLENES	NE	NE	ND	U	0.00481	ND	U	0.458	4.21		1.92	ND	U	0.00404	ND	U	0.00486	5.01		2.27	6.15		2.27	23.2		4.83
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00601	ND	U	0.573	**1.81**	J	2.4	ND	U	0.00505	ND	U	0.00608	**2.21**	J	2.84	0.29	J	2.83	ND	U	6.03
	NAPHTHALENE	0.0713	43.0	ND	U	0.0024	ND	U	0.229	**17.5**		0.961	ND	U	0.00202	ND	U	0.00243	**20**		1.14	**29.5**		1.13	**32.6**		2.41
	N-BUTYLBENZENE	NE	NE	ND	U	0.0024	1.36		0.229	13.9		0.961	ND	U	0.00202	ND	U	0.00243	17.6	J	1.14	31.2	J	1.13	35.3		2.41
	N-PROPYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.229	3.15		0.961	ND	U	0.00202	ND	U	0.00243	3.98		1.14	4.73		1.13	15		2.41
	O-XYLENE	3.13	898	0.00117	J	0.0024	ND	U	0.229	0.846	J	0.961	ND	U	0.00202	ND	U	0.00243	0.979	J	1.14	1.17		1.13	**10.5**		2.41

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP092			DP092			DP092			DP093			DP093			DP093			DP093			DP093		
		SAMPLE NO		FFOR0513			FFOR0514			FFOR0515			FFOR0516			FFOR0517			FFOR0518			FFOR0519			FFOR0520		
		SAMPLE DATE		11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0024	1.45		0.229	6.71		0.961	ND	U	0.00202	ND	U	0.00243	8.22		1.14	10.2		1.13	14.1		2.41
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0024	2.86		0.229	6.35		0.961	ND	U	0.00202	ND	U	0.00243	7.53		1.14	9.23		1.13	17.8		2.41
	STYRENE	27.7	7,280	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TOLUENE	25.3	5,270	0.00195	J	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	1.01	J	2.41
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	VINYL ACETATE	1.52	2,560	ND	UJ	0.0024	ND	U	0.229	ND	U	0.961	ND	UJ	0.00202	ND	UJ	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0024	ND	U	0.229	ND	U	0.961	ND	U	0.00202	ND	U	0.00243	ND	U	1.14	ND	U	1.13	ND	U	2.41
	XYLENES	3.13	814	0.0016	J	0.00721	ND	U	0.687	**5.06**		2.88	ND	U	0.00606	ND	U	0.00729	**5.99**		3.41	**7.32**		3.4	**33.7**		7.24
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.63		0.66	7.68		0.71	5.34		0.66	6.57		0.64	29.4		0.63	6.76		0.68	6.05		0.68	7.44		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP093			DP094			DP094			DP094			DP094			DP094			DP095			DP095		
			SAMPLE NO	FFOR0521			FFOR0522			FFOR0523			FFOR0524			FFOR0525			FFOR0526			FFOR0527			FFOR0528		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	10800		890	9.82		4.21	ND	U	4.46	ND	U	4.2	1390		87.9	2380		215	ND	U	8.77	9.9		4.21
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2880		750	ND	U	4.41	5.4		5.16	ND	U	5.41	27	J+	5.05	979		442	ND	U	6.7	1.17	J	5.59
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,4-DINITROPHENOL	1.26	122	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	UJ	9.2	ND	U	1.73
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2-CHLOROPHENOL	2.31	391	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2-METHYLNAPHTHALENE	NE	NE	30		3.69	0.0198	J	0.347	ND	U	0.363	ND	U	0.349	0.811		0.366	3.81		0.358	ND	UJ	1.84	ND	U	0.346
	2-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	2-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	U	9.2	ND	U	1.73
	2-NITROPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.739	ND	U	0.695	ND	U	0.727	ND	U	0.698	ND	U	0.733	ND	U	0.716	ND	U	3.68	ND	U	0.692
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	3-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	U	9.2	ND	U	1.73
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	UJ	9.2	ND	U	1.73
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	UJ	1.84	ND	U	0.346
	4-CHLOROANILINE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	4-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	U	9.2	ND	U	1.73
	4-NITROPHENOL	NE	NE	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	U	9.2	ND	U	1.73
	ACENAPHTHENE	338	3,440	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	0.0128	J	0.346
	ACENAPHTHYLENE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	ANTHRACENE	5,410	17,200	ND	U	0.369	0.0149	J	0.347	ND	U	0.363	ND	U	0.349	0.0354	J	0.366	0.0611	J	0.358	ND	U	1.84	0.0639	J	0.346
	BENZENAMINE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	UJ	1.84	ND	U	0.346
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.369	0.035	J	0.347	ND	U	0.363	ND	U	0.349	0.189	J	0.366	0.122	J	0.358	ND	U	1.84	0.0732	J	0.346
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.369	0.0273	J	0.347	ND	U	0.363	ND	U	0.349	0.113	J	0.366	0.07	J	0.358	ND	U	1.84	0.0758	J	0.346
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.369	0.0419	J	0.347	ND	U	0.363	ND	U	0.349	0.245	J	0.366	0.122	J	0.358	ND	U	1.84	0.0819	J	0.346
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.369	0.0318	J	0.347	ND	U	0.363	ND	U	0.349	0.147	J	0.366	0.0503	J	0.358	ND	U	1.84	0.0705	J	0.346
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.369	0.0173	J	0.347	ND	U	0.363	ND	U	0.349	0.0975	J	0.366	0.0521	J	0.358	ND	UJ	1.84	0.0577	J	0.346
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	CARBAZOLE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	0.0215	J	0.346
	CHRYSENE	160	147	ND	U	0.369	0.0386	J	0.347	ND	U	0.363	ND	U	0.349	0.226	J	0.366	0.139	J	0.358	ND	U	1.84	0.0851	J	0.346
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	0.0356	J	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	DIBENZOFURAN	NE	NE	1.3	J	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	DIETHYL PHTHALATE	193	48,900	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	FLUORANTHENE	2,430	2,290	ND	U	0.369	0.0614	J	0.347	ND	U	0.363	ND	U	0.349	0.447		0.366	0.285	J	0.358	ND	UJ	1.84	0.136	J	0.346
	FLUORENE	406	2,290	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	UJ	1.84	ND	U	0.346
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	0.139	J	0.366	0.048	J	0.358	ND	U	1.84	0.057	J	0.346
	ISOPHORONE	3.84	5,120	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	NAPHTHALENE	0.0713	43.0	**11.5**		3.69	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	**0.542**		0.358	ND	U	1.84	ND	U	0.346
	NITROBENZENE	0.0125	53.5	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP093			DP094			DP094			DP094			DP094			DP094			DP095			DP095		
			SAMPLE NO	FFOR0521			FFOR0522			FFOR0523			FFOR0524			FFOR0525			FFOR0526			FFOR0527			FFOR0528		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.85	ND	U	1.74	ND	U	1.82	ND	U	1.74	ND	U	1.83	ND	U	1.79	ND	U	9.2	ND	U	1.73
	PHENANTHRENE	571	1,830	0.0379	J	0.369	0.0329	J	0.347	ND	U	0.363	ND	U	0.349	0.168	J	0.366	0.232	J	0.358	ND	UJ	1.84	0.0865	J	0.346
	PHENOL	99.5	18,300	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
	PYRENE	1,790	1,720	ND	U	0.369	0.0471	J	0.347	ND	U	0.363	ND	U	0.349	0.354	J	0.366	0.208	J	0.358	ND	UJ	1.84	0.104	J	0.346
	PYRIDINE	NE	NE	ND	U	0.369	ND	U	0.347	ND	U	0.363	ND	U	0.349	ND	U	0.366	ND	U	0.358	ND	U	1.84	ND	U	0.346
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1-DICHLOROETHENE	2.32	449	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,1-DICHLOROPROPENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	UJ	0.00272	ND	U	0.00192
	1,2,4-TRIMETHYLBENZENE	NE	NE	84		1.37	ND	U	0.00183	ND	U	0.00224	0.000315	J	0.00214	0.0046		0.00229	34.2		0.901	ND	U	0.00272	ND	U	0.00192
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,3,5-TRIMETHYLBENZENE	NE	NE	19.9		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	0.0579		0.00229	18.6		0.901	ND	U	0.00272	ND	U	0.00192
	1,3-DICHLOROBENZENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,3-DICHLOROPROPANE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	1-CHLOROHEXANE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	2,2-DICHLOROPROPANE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	2-BUTANONE	25.5	37,100	ND	U	3.43	0.00268	J	0.00458	0.00365	J	0.0056	0.0033	J	0.00535	0.00622		0.00572	ND	U	2.25	0.00467	J	0.0068	ND	U	0.00481
	2-CHLOROTOLUENE	NE	NE	2.27		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	2-HEXANONE	NE	NE	ND	U	3.43	ND	U	0.00458	ND	U	0.0056	ND	U	0.00535	ND	U	0.00572	ND	U	2.25	ND	U	0.0068	ND	U	0.00481
	2-PROPENAL	0.000146	0.404	ND	UJ	17.2	ND	UJ	0.0229	ND	UJ	0.028	ND	U	0.0268	ND	U	0.0286	ND	UJ	11.3	ND	U	0.034	ND	U	0.0241
	2-PROPENENITRILE	0.0016969	4.55	ND	U	17.2	ND	U	0.0229	ND	U	0.028	ND	U	0.0268	ND	U	0.0286	ND	U	11.3	ND	U	0.034	ND	U	0.0241
	4-CHLOROTOLUENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	3.43	ND	U	0.00458	ND	U	0.0056	ND	U	0.00535	ND	U	0.00572	ND	U	2.25	ND	U	0.0068	ND	U	0.00481
	ACETONE	77.1	66,600	ND	U	17.2	0.00581	J	0.0229	0.0134	J	0.028	0.0192	J	0.0268	ND	U	0.0286	ND	U	11.3	0.0113	J	0.034	0.00187	J	0.0241
	BENZENE	0.0345	15.4	**0.225**	J	1.37	0.000397	J	0.00183	0.000338	J	0.00224	0.00101	J	0.00214	0.00261		0.00229	ND	U	0.901	0.00143	J	0.00272	ND	U	0.00192
	BROMOBENZENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	BROMOCHLOROMETHANE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	BROMOFORM	12.1	6,116	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	BROMOMETHANE	0.0385	16.5	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CARBON DISULFIDE	5.65	1,530	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CHLOROBENZENE	0.984	376	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CHLOROETHANE	107	29,800	ND	UJ	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	UJ	0.901	ND	U	0.00272	ND	U	0.00192
	CHLOROFORM	0.00918	5.86	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CHLOROMETHANE	0.879	275	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	DIBROMOMETHANE	0.0342	51.6	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	UJ	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	UJ	0.00192
	ETHYLBENZENE	0.26	68.4	**18**		1.37	ND	U	0.00183	ND	U	0.00224	0.000361	J	0.00214	0.000257	J	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	UJ	0.00272	ND	U	0.00192
	ISOPROPYLBENZENE	17.3	2,430	6.93		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	M,P-XYLENES	NE	NE	26.7		2.74	ND	U	0.00367	ND	U	0.00448	0.000678	J	0.00428	0.00182	J	0.00458	2.94		1.8	ND	U	0.00544	ND	U	0.00385
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	METHYLENE CHLORIDE	0.824	409	**2.58**	J	3.43	ND	U	0.00458	ND	U	0.0056	ND	U	0.00535	ND	U	0.00572	**1.68**	J	2.25	ND	U	0.0068	ND	U	0.00481
	NAPHTHALENE	0.0713	43.0	**33.9**		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	**7.13**		0.901	ND	U	0.00272	ND	U	0.00192
	N-BUTYLBENZENE	NE	NE	39.5		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	0.631	J	0.901	ND	UJ	0.00272	ND	U	0.00192
	N-PROPYLBENZENE	NE	NE	17.1		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	O-XYLENE	3.13	898	**13.5**		1.37	ND	U	0.00183	ND	U	0.00224	0.000214	J	0.00214	0.00198	J	0.00229	2.33		0.901	ND	U	0.00272	ND	U	0.00192

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		LOCATION CODE		DP093			DP094			DP094			DP094			DP094			DP094			DP095			DP095		
		SAMPLE NO		FFOR0521			FFOR0522			FFOR0523			FFOR0524			FFOR0525			FFOR0526			FFOR0527			FFOR0528		
		SAMPLE DATE		11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	13.1		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	0.0193		0.00229	5.67		0.901	ND	UJ	0.00272	ND	U	0.00192
	SEC-BUTYLBENZENE	NE	NE	19.3		1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	UJ	0.00272	ND	U	0.00192
	STYRENE	27.7	7,280	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TERT-BUTYLBENZENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TETRACHLOROETHENE	0.00861	7.02	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TOLUENE	25.3	5,270	3.45		1.37	ND	U	0.00183	ND	U	0.00224	0.002	J	0.00214	0.00299		0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TRICHLOROETHENE	0.0211	8.77	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	VINYL ACETATE	1.52	2,560	ND	U	1.37	ND	UJ	0.00183	ND	UJ	0.00224	ND	UJ	0.00214	ND	U	0.00229	ND	U	0.901	ND	UJ	0.00272	ND	UJ	0.00192
	VINYL CHLORIDE	0.00108	0.728	ND	U	1.37	ND	U	0.00183	ND	U	0.00224	ND	U	0.00214	ND	U	0.00229	ND	U	0.901	ND	U	0.00272	ND	U	0.00192
	XYLENES	3.13	814	**40**		4.12	ND	U	0.0055	ND	U	0.00672	0.000893	J	0.00642	0.0038	J	0.00687	**5.28**		2.7	ND	U	0.00816	ND	U	0.00577
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.96		0.68	5.73		0.64	3.46		1.34	4.87		0.64	7.07		0.67	5.54		0.65	12.9	J-	0.67	13.1		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP095			DP095			DP095			DP095			DP096			DP096			DP096			DP096		
			SAMPLE NO	FFOR0529			FFOR0530			FFOR0531			FFOR0532			FFOR0533			FFOR0534			FFOR0535			FFOR0536		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.78	J	4.25	9590		902	9260		866	6350		881	12		4.24	10.4		4.2	3830		452	6280		449
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.05	J	5.31	529	J+	51.9	1420		591	1360		643	ND	U	5.59	ND	U	4.16	547	J+	104	1410		602
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	UJ	0.352	ND	UJ	0.374	ND	UJ	3.66
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	4.74	J	0.367	13.9		3.61	16.2		3.61	0.0515	J	0.35	ND	U	0.352	ND	U	0.374	27.6		3.66
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.694	ND	U	0.734	ND	U	0.721	ND	U	0.722	ND	U	0.7	ND	U	0.704	ND	U	0.748	ND	U	7.31
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	UJ	0.352	ND	UJ	0.374	ND	UJ	3.66
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	ACENAPHTHYLENE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	0.0258	J	0.352	ND	U	0.374	ND	U	3.66
	ANTHRACENE	5,410	17,200	ND	U	0.347	0.183	J	0.367	0.257	J	0.361	0.277	J	0.361	0.0734	J	0.35	0.114	J	0.352	ND	U	0.374	ND	U	3.66
	BENZENAMINE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.347	0.327	J	0.367	0.414	J	0.361	0.431	J	0.361	ND	U	0.35	0.231	J	0.352	ND	U	0.374	ND	U	3.66
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.347	**0.226**	J	3.67	**0.23**	J	3.61	**0.297**	J	0.361	0.0189	J	0.35	**0.226**	J	0.352	ND	U	0.374	ND	U	3.66
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	ND	U	3.67	ND	U	3.61	0.387	J	0.361	ND	U	0.35	0.234	J	0.352	ND	U	0.374	ND	U	3.66
	BENZO(GHI)PERYLENE	NE	NE	0.0594	J	0.347	ND	U	3.67	ND	U	3.61	0.149	J	0.361	0.0177	J	0.35	0.201	J	0.352	ND	U	0.374	ND	U	3.66
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.347	ND	U	3.67	ND	U	3.61	0.156	J	0.361	ND	U	0.35	0.137	J	0.352	ND	U	0.374	ND	U	3.66
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	CARBAZOLE	NE	NE	ND	U	0.347	0.0325	J	0.367	0.101	J	0.361	0.0482	J	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	CHRYSENE	160	147	ND	U	0.347	0.301	J	0.367	0.376	J	0.361	0.4	J	0.361	0.0229	J	0.35	0.233	J	0.352	ND	U	0.374	ND	U	3.66
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	3.67	ND	U	3.61	0.0528	J	0.361	ND	U	0.35	0.0366	J	0.352	ND	U	0.374	ND	U	3.66
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	1.06	J	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	1.19	J	3.66
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	0.0168	J	0.35	0.0229	J	0.352	0.0199	J	0.374	ND	U	3.66
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	FLUORANTHENE	2,430	2,290	ND	U	0.347	0.785	J	0.367	0.918	J	0.361	1.04	J	0.361	0.0332	J	0.35	0.255	J	0.352	ND	U	0.374	ND	U	3.66
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.367	0.389	J	0.361	0.448	J	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	0.327	J	3.66
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0679	J	0.347	ND	U	3.67	ND	U	3.61	0.15	J	0.361	ND	U	0.35	0.147	J	0.352	ND	U	0.374	ND	U	3.66
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.367	ND	U	0.361	**3.8**	J	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	**10.2**		3.66
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP095			DP095			DP095			DP095			DP096			DP096			DP096			DP096		
			SAMPLE NO	FFOR0529			FFOR0530			FFOR0531			FFOR0532			FFOR0533			FFOR0534			FFOR0535			FFOR0536		
			SAMPLE DATE	11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.84	ND	U	1.8	ND	U	1.81	ND	U	1.75	ND	U	1.76	ND	U	1.87	ND	U	18.3
	PHENANTHRENE	571	1,830	ND	U	0.347	0.663	J	0.367	0.797	J	0.361	0.883	J	0.361	0.0184	J	0.35	0.043	J	0.352	ND	U	0.374	ND	U	3.66
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
	PYRENE	1,790	1,720	ND	U	0.347	0.564	J	0.367	0.681	J	0.361	0.793	J	0.361	0.0233	J	0.35	0.25	J	0.352	ND	U	0.374	ND	U	3.66
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.367	ND	U	0.361	ND	U	0.361	ND	U	0.35	ND	U	0.352	ND	U	0.374	ND	U	3.66
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000157	J	0.00209	0.215		0.127	147	J	2.07	81.8	J	2.26	ND	U	0.00236	ND	U	0.00206	0.511	J	0.558	85		1.15
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000246	J	0.00209	0.497		0.127	43.6	J	2.07	22.9	J	2.26	ND	U	0.00236	ND	U	0.00206	0.27	J	0.558	20.1		1.15
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	1-CHLOROHEXANE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	2-BUTANONE	25.5	37,100	0.00533		0.00523	ND	U	0.318	ND	U	5.17	ND	U	5.64	0.00482	J	0.0059	0.00326	J	0.00514	ND	U	1.39	ND	U	2.86
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	2.4		1.15
	2-HEXANONE	NE	NE	ND	U	0.00523	ND	U	0.318	ND	U	5.17	ND	U	5.64	ND	U	0.0059	ND	U	0.00514	ND	U	1.39	ND	U	2.86
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0262	ND	UJ	1.59	ND	UJ	25.8	ND	UJ	28.2	ND	U	0.0295	ND	U	0.0257	ND	UJ	6.97	ND	UJ	14.3
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0262	ND	U	1.59	ND	U	25.8	ND	U	28.2	ND	U	0.0295	ND	U	0.0257	ND	U	6.97	ND	U	14.3
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00523	ND	U	0.318	ND	U	5.17	ND	U	5.64	ND	U	0.0059	ND	U	0.00514	ND	U	1.39	ND	U	2.86
	ACETONE	77.1	66,600	0.0149	J	0.0262	ND	U	1.59	ND	U	25.8	ND	U	28.2	0.0192	J	0.0295	0.0106	J	0.0257	ND	U	6.97	ND	U	14.3
	BENZENE	0.0345	15.4	0.00116	J	0.00209	0.0296	J	0.127	ND	U	2.07	ND	U	2.26	0.000482	J	0.00236	0.00047	J	0.00206	ND	U	0.558	ND	U	1.15
	BROMOBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	BROMOFORM	12.1	6,116	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	BROMOMETHANE	0.0385	16.5	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CHLOROBENZENE	0.984	376	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CHLOROETHANE	107	29,800	ND	U	0.00209	ND	UJ	0.127	ND	UJ	2.07	ND	UJ	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CHLOROFORM	0.00918	5.86	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CHLOROMETHANE	0.879	275	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	ETHYLBENZENE	0.26	68.4	ND	U	0.00209	ND	U	0.127	**5.71**		2.07	**4.51**		2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	**15.7**		1.15
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00209	ND	U	0.127	5.8		2.07	3.85		2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	8.08		1.15
	M,P-XYLENES	NE	NE	0.000622	J	0.00419	0.0597	J	0.255	26.8		4.14	17.4		4.51	ND	U	0.00472	ND	U	0.00411	0.161	J	1.12	23.8		2.29
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00523	ND	U	0.318	**3.79**	J	5.17	**4.6**	J	5.64	ND	U	0.0059	ND	U	0.00514	ND	U	1.39	ND	U	2.86
	NAPHTHALENE	0.0713	43.0	ND	U	0.00209	ND	U	0.127	**5.44**		2.07	**5.25**		2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	**38.7**		1.15
	N-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	49.3		2.07	29.7		2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	49.6		1.15
	N-PROPYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	11.9		2.07	7.8		2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	20.1		1.15
	O-XYLENE	3.13	898	0.00108	J	0.00209	0.0379	J	0.127	**14.5**		2.07	**8.9**		2.26	ND	U	0.00236	ND	U	0.00206	0.125	J	0.558	**12.8**		1.15

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		SAMPLE DATE		11-Jul-11			11-Jul-11			11-Jul-11			11-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00209	0.385		0.127	25.1		2.07	13.6		2.26	ND	U	0.00236	ND	U	0.00206	0.178	J	0.558	14.5		1.15
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	26.9	J	2.07	15	J	2.26	ND	U	0.00236	ND	U	0.00206	0.144	J	0.558	22.8		1.15
	STYRENE	27.7	7,280	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TOLUENE	25.3	5,270	0.00191	J	0.00209	ND	U	0.127	2.01	J	2.07	1.59	J	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	1.52		1.15
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	UJ	0.558	ND	UJ	1.15
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00209	ND	U	0.127	ND	U	2.07	ND	U	2.26	ND	U	0.00236	ND	U	0.00206	ND	U	0.558	ND	U	1.15
	XYLENES	3.13	814	0.00171	J	0.00628	0.0976	J	0.382	**41.5**		6.2	**26.2**		6.77	ND	U	0.00708	ND	U	0.00617	0.286	J	1.67	**36.7**		3.44
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.67		0.64	8.35		0.68	5.72		0.65	6.04		0.66	8.15		0.64	8.02		0.64	6.55		0.68	6.81		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP096			DP097			DP097			DP097			DP097			DP097			DP097			DP098		
			SAMPLE NO	FFOR0537			FFOR0538			FFOR0539			FFOR0540			FFOR0541			FFOR0542			FFOR0543			FFOR0544		
			SAMPLE DATE	12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	5400		433	7.57		4.26	ND	U	4.61	ND	U	4.54	ND	U	4.29	36.3		4.3	507		43.7	7.37		4.27
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1710		575	0.875	J	4.24	1.26	J	6.66	ND	U	4.54	0.827	J	5.23	ND	U	3.92	143	J+	88.8	ND	U	6.9
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.61	ND	UJ	0.349	ND	UJ	0.376	ND	UJ	0.375	ND	UJ	0.353	ND	UJ	0.357	ND	UJ	0.357	ND	UJ	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	42.4		3.61	0.0323	J	0.349	0.0134	J	0.376	ND	U	0.375	ND	U	0.353	0.0193	J	0.357	0.559		0.357	0.0428	J	0.353
	2-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.21	ND	U	0.698	ND	U	0.751	ND	U	0.75	ND	U	0.706	ND	U	0.714	ND	U	0.714	ND	U	0.706
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	3.61	ND	UJ	0.349	ND	UJ	0.376	ND	UJ	0.375	ND	UJ	0.353	ND	UJ	0.357	ND	UJ	0.357	ND	UJ	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	3.61	0.0739	J	0.349	0.076	J	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	0.0747	J	0.353
	BENZENAMINE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	0.143	J	0.357	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.61	0.0286	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.0328	J	0.357	0.0351	J	0.357	0.0324	J	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.61	0.0328	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.083	J	0.357	0.18	J	0.357	0.0499	J	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.61	0.0297	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.0748	J	0.357	0.0353	J	0.357	0.0204	J	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.61	0.0185	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.0348	J	0.357	0.0841	J	0.357	0.0198	J	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.61	ND	U	0.349	0.0272	J	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	CHRYSENE	160	147	ND	U	3.61	0.0305	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.0392	J	0.357	0.175	J	0.357	0.0389	J	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	0.0161	J	0.357	ND	U	0.353
	DIBENZOFURAN	NE	NE	1.72	J	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	0.071	J	0.357	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.61	0.0154	J	0.349	ND	U	0.376	ND	U	0.375	0.0225	J	0.353	ND	U	0.357	0.017	J	0.357	0.0192	J	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	3.61	0.0463	J	0.349	0.0208	J	0.376	ND	U	0.375	ND	U	0.353	0.0936	J	0.357	0.61		0.357	0.0508	J	0.353
	FLUORENE	406	2,290	0.469	J	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.086	J	0.357	0.0426	J	0.357	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	**16.3**		3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP096			DP097			DP097			DP097			DP097			DP097			DP097			DP098		
		SAMPLE NO		FFOR0537			FFOR0538			FFOR0539			FFOR0540			FFOR0541			FFOR0542			FFOR0543			FFOR0544		
		SAMPLE DATE		12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	18	ND	U	1.75	ND	U	1.88	ND	U	1.87	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	3.61	0.0269	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	0.104	J	0.357	0.0301	J	0.353
	PHENOL	99.5	18,300	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	3.61	0.0357	J	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	0.0927	J	0.357	0.39		0.357	0.0315	J	0.353
	PYRIDINE	NE	NE	ND	U	3.61	ND	U	0.349	ND	U	0.376	ND	U	0.375	ND	U	0.353	ND	U	0.357	ND	U	0.357	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1-DICHLOROETHENE	2.32	449	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,1-DICHLOROPROPENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	UJ	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2,4-TRIMETHYLBENZENE	NE	NE	107		2.42	ND	U	0.00177	ND	U	0.00207	0.000409	J	0.00243	0.000344	J	0.0026	ND	U	0.00215	5.22		0.0953	ND	U	0.00418
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	UJ	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,3,5-TRIMETHYLBENZENE	NE	NE	26.1		2.42	ND	U	0.00177	ND	U	0.00207	0.000449	J	0.00243	0.000427	J	0.0026	ND	U	0.00215	3.29		0.0953	ND	U	0.00418
	1,3-DICHLOROBENZENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,3-DICHLOROPROPANE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	1-CHLOROHEXANE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	UJ	0.00215	ND	U	0.0953	ND	U	0.00418
	2,2-DICHLOROPROPANE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	2-BUTANONE	25.5	37,100	ND	U	6.05	0.00253	J	0.00442	0.00251	J	0.00518	0.00449	J	0.00607	0.00423	J	0.0065	ND	UJ	0.00537	0.109	J	0.238	0.00456	J	0.0105
	2-CHLOROTOLUENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	2-HEXANONE	NE	NE	ND	U	6.05	ND	U	0.00442	ND	U	0.00518	ND	U	0.00607	ND	U	0.0065	ND	UJ	0.00537	ND	U	0.238	ND	U	0.0105
	2-PROPENAL	0.000146	0.404	ND	UJ	30.3	ND	U	0.0221	ND	U	0.0259	ND	U	0.0303	ND	U	0.0325	ND	UJ	0.0268	ND	UJ	1.19	ND	U	0.0523
	2-PROPENENITRILE	0.0016969	4.55	ND	U	30.3	ND	U	0.0221	ND	U	0.0259	ND	U	0.0303	ND	U	0.0325	ND	U	0.0268	ND	U	1.19	ND	U	0.0523
	4-CHLOROTOLUENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	4-METHYL-2-PENTANONE	NE	5,820	14.9		6.05	ND	U	0.00442	ND	U	0.00518	ND	U	0.00607	ND	U	0.0065	ND	UJ	0.00537	ND	U	0.238	ND	U	0.0105
	ACETONE	77.1	66,600	ND	U	30.3	0.00539	J	0.0221	0.00503	J	0.0259	0.014	J	0.0303	0.0135	J	0.0325	ND	U	0.0268	0.189	J	1.19	0.0427	J	0.0523
	BENZENE	0.0345	15.4	ND	U	2.42	0.000434	J	0.00177	0.000542	J	0.00207	0.00229	J	0.00243	0.00229	J	0.0026	ND	U	0.00215	0.0217	J	0.0953	0.0113		0.00418
	BROMOBENZENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	BROMOCHLOROMETHANE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	BROMOFORM	12.1	6,116	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	BROMOMETHANE	0.0385	16.5	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CARBON DISULFIDE	5.65	1,530	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CHLOROBENZENE	0.984	376	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CHLOROETHANE	107	29,800	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CHLOROFORM	0.00918	5.86	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	0.00162	J	0.00418
	CHLOROMETHANE	0.879	275	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	UJ	0.00215	ND	U	0.0953	ND	U	0.00418
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	DIBROMOMETHANE	0.0342	51.6	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	ETHYLBENZENE	0.26	68.4	**29.7**		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	0.121		0.0953	ND	U	0.00418
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	ISOPROPYLBENZENE	17.3	2,430	11.2		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	0.33		0.0953	ND	U	0.00418
	M,P-XYLENES	NE	NE	37.3		4.84	ND	U	0.00354	ND	U	0.00414	0.00123	J	0.00485	0.00108	J	0.0052	ND	U	0.00429	1.08		0.191	ND	U	0.00836
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	METHYLENE CHLORIDE	0.824	409	ND	U	6.05	ND	U	0.00442	ND	U	0.00518	ND	U	0.00607	ND	U	0.0065	0.000557	J	0.00537	ND	U	0.238	ND	U	0.0105
	NAPHTHALENE	0.0713	43.0	**49.8**		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	**0.692**		0.0953	ND	U	0.00418
	N-BUTYLBENZENE	NE	NE	62.5		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	N-PROPYLBENZENE	NE	NE	27.2		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	O-XYLENE	3.13	898	**18.4**		2.42	ND	U	0.00177	ND	U	0.00207	0.0014	J	0.00243	0.00139	J	0.0026	ND	U	0.00215	0.784		0.0953	ND	U	0.00418

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP096			DP097			DP097			DP097			DP097			DP097			DP097			DP098		
		SAMPLE NO		FFOR0537			FFOR0538			FFOR0539			FFOR0540			FFOR0541			FFOR0542			FFOR0543			FFOR0544		
		SAMPLE DATE		12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	17.8		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	0.403		0.0953	ND	U	0.00418
	SEC-BUTYLBENZENE	NE	NE	28.7		2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	0.934		0.0953	ND	U	0.00418
	STYRENE	27.7	7,280	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TERT-BUTYLBENZENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TETRACHLOROETHENE	0.00861	7.02	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TOLUENE	25.3	5,270	6.96		2.42	ND	U	0.00177	ND	U	0.00207	0.00349		0.00243	0.00318		0.0026	ND	U	0.00215	0.0387	J	0.0953	ND	U	0.00418
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TRICHLOROETHENE	0.0211	8.77	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	VINYL ACETATE	1.52	2,560	ND	UJ	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	UJ	0.00215	ND	UJ	0.0953	ND	U	0.00418
	VINYL CHLORIDE	0.00108	0.728	ND	U	2.42	ND	U	0.00177	ND	U	0.00207	ND	U	0.00243	ND	U	0.0026	ND	U	0.00215	ND	U	0.0953	ND	U	0.00418
	XYLENES	3.13	814	**55.7**		7.26	ND	U	0.00531	ND	U	0.00621	0.00263	J	0.00728	0.00248	J	0.00779	ND	U	0.00644	1.87		0.286	ND	U	0.0125
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.11		0.65	5.61		0.64	4.82		1.38	5.8		0.68	5.27		0.64	6.35		0.65	5.55		0.65	4.59		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP098			DP098			DP098			DP098			DP099			DP099			DP099			DP099		
			SAMPLE NO	FFOR0545			FFOR0546			FFOR0547			FFOR0548			FFOR0549			FFOR0550			FFOR0551			FFOR0552		
			SAMPLE DATE	12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.49		4.27	ND	U	4.4	4560		442	3460		436	12.4		4.23	18		4.13	1470		219	18000		1780
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.24	ND	U	5.92	925		625	2260		768	ND	U	4.38	0.803	J	5.3	73.2	J+	13.7	1760		693
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.349	ND	U	0.363	ND	U	0.364	ND	UJ	3.6	ND	UJ	0.349	ND	U	0.346	ND	UJ	0.363	ND	U	0.372
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2-METHYLNAPHTHALENE	NE	NE	0.131	J	0.349	ND	U	0.363	11.6	J	1.82	34.1		3.6	0.0565	J	0.349	0.0139	J	0.346	0.171	J	0.363	51.2		3.72
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.698	ND	U	0.726	ND	U	0.729	ND	U	7.2	ND	U	0.698	ND	U	0.693	ND	U	0.727	ND	U	0.744
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	4-CHLOROANILINE	NE	NE	ND	UJ	0.349	ND	U	0.363	ND	U	0.364	ND	UJ	3.6	ND	UJ	0.349	ND	U	0.346	ND	UJ	0.363	ND	U	0.372
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	ANTHRACENE	5,410	17,200	0.0966	J	0.349	ND	U	0.363	0.239	J	0.364	0.848	J	3.6	0.0817	J	0.349	0.0965	J	0.346	ND	U	0.363	0.284	J	0.372
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	BENZO(A)ANTHRACENE	1.57	1.48	0.284	J	0.349	ND	U	0.363	0.313	J	0.364	0.3	J	3.6	0.0547	J	0.349	0.0299	J	0.346	0.072	J	0.363	0.411	J	0.372
	BENZO(A)PYRENE	0.52	0.148	**0.283**	J	0.349	ND	U	0.363	**0.214**	J	0.364	**0.171**	J	3.6	0.0612	J	0.349	0.0347	J	0.346	**0.424**		0.363	**0.289**	J	0.372
	BENZO(B)FLUORANTHENE	5.31	1.48	0.367		0.349	ND	U	0.363	0.32	J	0.364	ND	U	3.6	0.0652	J	0.349	0.0367	J	0.346	0.383		0.363	0.375	J	0.372
	BENZO(GHI)PERYLENE	NE	NE	0.0952	J	0.349	ND	U	0.363	0.0772	J	0.364	ND	U	3.6	0.028	J	0.349	0.0453	J	0.346	0.183	J	0.363	0.093	J	0.372
	BENZO(K)FLUORANTHENE	52.0	14.8	0.148	J	0.349	ND	U	0.363	0.12	J	0.364	ND	U	3.6	0.0419	J	0.349	0.0204	J	0.346	0.132	J	0.363	0.19	J	0.372
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	0.125	J	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	CHRYSENE	160	147	0.377		0.349	ND	U	0.363	0.257	J	0.364	0.236	J	3.6	0.059	J	0.349	0.0632	J	0.346	0.181	J	0.363	0.354	J	0.372
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0324	J	0.349	ND	U	0.363	0.0465	J	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	0.0478	J	0.363	ND	U	0.372
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.363	0.671	J	0.364	0.572	J	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	1.98	J	0.372
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	0.0272	J	0.349	0.0175	J	0.346	ND	U	0.363	ND	U	0.372
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	FLUORANTHENE	2,430	2,290	0.33	J	0.349	ND	U	0.363	0.666	J	0.364	0.66	J	3.6	0.13	J	0.349	0.0435	J	0.346	0.1	J	0.363	1.01	J	0.372
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.363	0.336	J	0.364	0.369	J	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	0.454	J	0.372
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.105	J	0.349	ND	U	0.363	0.084	J	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	0.189	J	0.363	0.0991	J	0.372
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	NAPHTHALENE	0.0713	43.0	0.0282	J	0.349	ND	U	0.363	ND	U	0.364	**5.98**		3.6	ND	U	0.349	ND	U	0.346	0.0552	J	0.363	**15**		3.72
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP098			DP098			DP098			DP098			DP099			DP099			DP099			DP099		
		SAMPLE NO		FFOR0545			FFOR0546			FFOR0547			FFOR0548			FFOR0549			FFOR0550			FFOR0551			FFOR0552		
		SAMPLE DATE		12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.82	ND	U	1.82	ND	U	18	ND	U	1.75	ND	U	1.73	ND	U	1.82	ND	U	1.86
	PHENANTHRENE	571	1,830	0.0581	J	0.349	ND	U	0.363	0.618	J	0.364	0.573	J	3.6	0.0698	J	0.349	0.0176	J	0.346	ND	U	0.363	0.881	J	0.372
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
	PYRENE	1,790	1,720	0.276	J	0.349	ND	U	0.363	0.637	J	0.364	0.371	J	3.6	0.0689	J	0.349	0.0313	J	0.346	0.471		0.363	0.838	J	0.372
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.363	ND	U	0.364	ND	U	3.6	ND	U	0.349	ND	U	0.346	ND	U	0.363	ND	U	0.372
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	UJ	0.00219	ND	UJ	0.00231	ND	U	1.11	ND	U	2.57	ND	UJ	0.0023	ND	UJ	0.00235	ND	U	0.105	ND	U	2.03
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	21.4		1.11	75.1		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	68.4		2.03
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	0.00219	ND	UJ	0.00231	ND	U	1.11	ND	U	2.57	ND	UJ	0.0023	ND	UJ	0.00235	ND	U	0.105	ND	U	2.03
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	24.2		1.11	19.4		2.57	ND	U	0.0023	ND	U	0.00235	0.13		0.105	21.1		2.03
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00219	ND	UJ	0.00231	ND	U	1.11	ND	U	2.57	ND	UJ	0.0023	ND	UJ	0.00235	ND	U	0.105	ND	U	2.03
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	2-BUTANONE	25.5	37,100	ND	UJ	0.00548	ND	UJ	0.00577	ND	U	2.78	ND	UJ	6.42	ND	UJ	0.00575	ND	UJ	0.00588	ND	U	0.263	ND	U	5.07
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	2-HEXANONE	NE	NE	ND	UJ	0.00548	ND	UJ	0.00577	ND	U	2.78	ND	U	6.42	ND	UJ	0.00575	ND	UJ	0.00588	ND	U	0.263	ND	U	5.07
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0274	ND	UJ	0.0288	ND	UJ	13.9	ND	UJ	32.1	ND	UJ	0.0287	ND	UJ	0.0294	ND	UJ	1.32	ND	UJ	25.4
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0274	ND	U	0.0288	ND	U	13.9	ND	U	32.1	ND	U	0.0287	ND	U	0.0294	ND	U	1.32	ND	U	25.4
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	4-METHYL-2-PENTANONE	NE	5,820	ND	UJ	0.00548	ND	UJ	0.00577	ND	U	2.78	ND	U	6.42	ND	UJ	0.00575	ND	UJ	0.00588	ND	U	0.263	ND	U	5.07
	ACETONE	77.1	66,600	ND	U	0.0274	ND	U	0.0288	ND	U	13.9	ND	U	32.1	ND	U	0.0287	ND	U	0.0294	ND	U	1.32	ND	U	25.4
	BENZENE	0.0345	15.4	ND	U	0.00219	0.00282		0.00231	ND	U	1.11	ND	U	2.57	0.000886	J	0.0023	0.000668	J	0.00235	0.0325	J	0.105	ND	U	2.03
	BROMOBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	BROMOFORM	12.1	6,116	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	BROMOMETHANE	0.0385	16.5	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CHLOROBENZENE	0.984	376	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CHLOROETHANE	107	29,800	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CHLOROFORM	0.00918	5.86	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	**3.44**		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CHLOROMETHANE	0.879	275	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	UJ	0.00219	ND	UJ	0.00231	ND	U	1.11	ND	U	2.57	ND	UJ	0.0023	ND	UJ	0.00235	ND	U	0.105	ND	U	2.03
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	ETHYLBENZENE	0.26	68.4	ND	U	0.00219	ND	U	0.00231	**0.315**	J	1.11	**4.49**		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	**6.5**		2.03
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	3.31		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	4.01		2.03
	M,P-XYLENES	NE	NE	ND	U	0.00439	0.00244	J	0.00461	2.27		2.22	17.1		5.13	ND	U	0.0046	ND	U	0.00471	ND	U	0.21	12.8		4.06
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00548	ND	U	0.00577	ND	U	2.78	ND	U	6.42	ND	U	0.00575	ND	U	0.00588	ND	U	0.263	ND	U	5.07
	NAPHTHALENE	0.0713	43.0	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	**18.4**		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	**17.5**		2.03
	N-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	20.3		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	34.3		2.03
	N-PROPYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	7.38		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	8.04		2.03
	O-XYLENE	3.13	898	ND	U	0.00219	0.000705	J	0.00231	**3.88**		1.11	**9.45**		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	**9.71**		2.03

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP098			DP098			DP098			DP098			DP099			DP099			DP099			DP099		
		SAMPLE NO		FFOR0545			FFOR0546			FFOR0547			FFOR0548			FFOR0549			FFOR0550			FFOR0551			FFOR0552		
		SAMPLE DATE		12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00231	17.7		1.11	11.3		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	14.4		2.03
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	1.98		1.11	12		2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	17.4		2.03
	STYRENE	27.7	7,280	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TOLUENE	25.3	5,270	ND	U	0.00219	0.00324		0.00231	ND	U	1.11	1.15	J	2.57	ND	U	0.0023	0.000604	J	0.00235	ND	U	0.105	0.833	J	2.03
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00219	ND	UJ	0.00231	ND	UJ	1.11	ND	UJ	2.57	ND	UJ	0.0023	ND	UJ	0.00235	ND	UJ	0.105	ND	UJ	2.03
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00219	ND	U	0.00231	ND	U	1.11	ND	U	2.57	ND	U	0.0023	ND	U	0.00235	ND	U	0.105	ND	U	2.03
	XYLENES	3.13	814	ND	U	0.00658	0.00314	J	0.00692	**6.15**		3.33	**26.5**		7.7	ND	U	0.0069	0.000574	J	0.00706	ND	U	0.316	**22.5**		6.09
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.9		0.64	5.88		0.67	6.16		0.66	5.07		0.65	7.13		0.63	20.4		0.62	6.15	J-	0.66	7.59		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP099			DP099			DP100			DP100			DP100			DP100			DP100			DP100		
			SAMPLE NO	FFOR0553			FFOR0554			FFOR0555			FFOR0556			FFOR0557			FFOR0558			FFOR0559			FFOR0560		
			SAMPLE DATE	12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	16800		1780	19000		1780	8.38	J	4.24	4.91	J	4.46	1.5	J	4.46	ND	U	4.41	2.72	J	4.38	ND	U	4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	2250		489	2150		506	0.887	J	6.63	ND	U	5.3	ND	U	6.93	ND	U	5.4	ND	U	7.73	ND	U	6.7
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	47.9		3.66	60.9		3.67	0.0141	J	0.353	0.0104	J	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.733	ND	U	0.734	ND	U	0.706	ND	U	0.736	ND	U	0.736	ND	U	0.727	ND	U	0.716	ND	U	0.727
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	ANTHRACENE	5,410	17,200	0.238	J	0.366	0.26	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZENAMINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	0.375	J	0.366	0.39	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZO(A)PYRENE	0.52	0.148	**0.276**	J	0.366	**0.264**	J	0.367	0.0175	J	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	0.364	J	0.366	0.342	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZO(GHI)PERYLENE	NE	NE	0.108	J	0.366	0.0904	J	0.367	0.0387	J	0.353	0.0136	J	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	0.179	J	0.366	0.167	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	CARBAZOLE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	CHRYSENE	160	147	0.322	J	0.366	0.326	J	0.367	0.0321	J	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0456	J	0.366	0.0318	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DIBENZOFURAN	NE	NE	1.89	J	0.366	2.12	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	0.022	J	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	FLUORANTHENE	2,430	2,290	0.858	J	0.366	0.913	J	0.367	0.0205	J	0.353	0.0116	J	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	FLUORENE	406	2,290	0.467	J	0.366	0.559	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.106	J	0.366	0.0855	J	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	**21.1**		3.66	**25.8**		3.67	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP099			DP099			DP100			DP100			DP100			DP100			DP100			DP100		
				SAMPLE NO	FFOR0553			FFOR0554			FFOR0555			FFOR0556			FFOR0557			FFOR0558			FFOR0559			FFOR0560		
				SAMPLE DATE	12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
				SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.82
	PHENANTHRENE	571	1,830	0.747	J	0.366	0.802	J	0.367	0.0155	J	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	PHENOL	99.5	18,300	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	PYRENE	1,790	1,720	0.734	J	0.366	0.786	J	0.367	0.0298	J	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
	PYRIDINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.353	ND	U	0.368	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1-DICHLOROETHENE	2.32	449	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,1-DICHLOROPROPENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	UJ	0.00237	ND	UJ	0.00278	ND	UJ	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2,4-TRIMETHYLBENZENE	NE	NE	72		1.8	115		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	UJ	0.00237	ND	UJ	0.00278	ND	UJ	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,3,5-TRIMETHYLBENZENE	NE	NE	19.3		1.8	30.6		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	0.000783	J	0.00578	ND	U	0.00235
	1,3-DICHLOROBENZENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,3-DICHLOROPROPANE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	1-CHLOROHEXANE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	UJ	0.00237	ND	UJ	0.00278	ND	UJ	0.00239	ND	U	0.00578	ND	U	0.00235
	2,2-DICHLOROPROPANE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	2-BUTANONE	25.5	37,100	ND	U	4.51	ND	U	5.27	ND	U	0.00801	ND	UJ	0.00593	ND	UJ	0.00695	ND	U	0.00598	ND	U	0.0144	ND	U	0.00587
	2-CHLOROTOLUENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	2-HEXANONE	NE	NE	ND	U	4.51	ND	U	5.27	ND	U	0.00801	ND	UJ	0.00593	ND	UJ	0.00695	ND	UJ	0.00598	ND	U	0.0144	ND	U	0.00587
	2-PROPENAL	0.000146	0.404	ND	UJ	22.5	ND	UJ	26.4	ND	U	0.0401	ND	UJ	0.0297	ND	UJ	0.0347	ND	UJ	0.0299	ND	U	0.0722	ND	U	0.0293
	2-PROPENENITRILE	0.0016969	4.55	ND	U	22.5	ND	U	26.4	ND	U	0.0401	ND	U	0.0297	ND	U	0.0347	ND	U	0.0299	ND	U	0.0722	ND	U	0.0293
	4-CHLOROTOLUENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	4.51	ND	U	5.27	ND	U	0.00801	ND	UJ	0.00593	ND	UJ	0.00695	ND	UJ	0.00598	ND	U	0.0144	ND	U	0.00587
	ACETONE	77.1	66,600	ND	U	22.5	ND	U	26.4	0.0327	J	0.0401	ND	U	0.0297	ND	U	0.0347	ND	U	0.0299	0.0505	J	0.0722	0.0243	J	0.0293
	BENZENE	0.0345	15.4	ND	U	1.8	ND	U	2.11	0.00483		0.0032	0.00906		0.00237	ND	U	0.00278	0.00214	J	0.00239	0.00612		0.00578	0.00141	J	0.00235
	BROMOBENZENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	BROMOCHLOROMETHANE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	BROMOFORM	12.1	6,116	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	BROMOMETHANE	0.0385	16.5	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CARBON DISULFIDE	5.65	1,530	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CHLOROBENZENE	0.984	376	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CHLOROETHANE	107	29,800	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CHLOROFORM	0.00918	5.86	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CHLOROMETHANE	0.879	275	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	UJ	0.00237	ND	UJ	0.00278	ND	UJ	0.00239	ND	U	0.00578	ND	U	0.00235
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	DIBROMOMETHANE	0.0342	51.6	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	ETHYLBENZENE	0.26	68.4	**19.2**		1.8	**31.8**		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	ISOPROPYLBENZENE	17.3	2,430	7.34		1.8	11.9		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	M,P-XYLENES	NE	NE	24.1		3.61	39.8		4.22	ND	U	0.00641	0.000467	J	0.00475	ND	U	0.00556	0.00168	J	0.00478	0.00183	J	0.0116	ND	U	0.0047
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	METHYLENE CHLORIDE	0.824	409	ND	U	4.51	ND	U	5.27	0.00141	J	0.00801	0.0037	J	0.00593	ND	U	0.00695	ND	U	0.00598	ND	U	0.0144	ND	U	0.00587
	NAPHTHALENE	0.0713	43.0	**32.3**	J	1.8	**54.1**	J	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	N-BUTYLBENZENE	NE	NE	37.3		1.8	57.7		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	N-PROPYLBENZENE	NE	NE	16		1.8	19.3		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	O-XYLENE	3.13	898	**14.5**		1.8	**22.8**		2.11	0.00126	J	0.0032	0.000205	J	0.00237	ND	U	0.00278	0.000479	J	0.00239	0.00295	J	0.00578	ND	U	0.00235

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP099			DP099			DP100			DP100			DP100			DP100			DP100			DP100		
		SAMPLE NO		FFOR0553			FFOR0554			FFOR0555			FFOR0556			FFOR0557			FFOR0558			FFOR0559			FFOR0560		
		SAMPLE DATE		12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11			12-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	12.7		1.8	19.3		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	SEC-BUTYLBENZENE	NE	NE	18.4		1.8	28.3		2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	STYRENE	27.7	7,280	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TERT-BUTYLBENZENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TETRACHLOROETHENE	0.00861	7.02	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TOLUENE	25.3	5,270	5.75		1.8	8.07		2.11	0.00066	J	0.0032	0.000569	J	0.00237	ND	U	0.00278	0.00224	J	0.00239	0.00773		0.00578	0.000904	J	0.00235
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TRICHLOROETHENE	0.0211	8.77	ND	U	1.8	ND	U	2.11	0.000766	J	0.0032	0.00156	J	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	VINYL ACETATE	1.52	2,560	ND	UJ	1.8	ND	UJ	2.11	ND	U	0.0032	ND	UJ	0.00237	ND	UJ	0.00278	ND	UJ	0.00239	ND	U	0.00578	ND	U	0.00235
	VINYL CHLORIDE	0.00108	0.728	ND	U	1.8	ND	U	2.11	ND	U	0.0032	ND	U	0.00237	ND	U	0.00278	ND	U	0.00239	ND	U	0.00578	ND	U	0.00235
	XYLENES	3.13	814	**38.6**		5.41	**62.6**		6.32	0.00126	J	0.00961	0.000673	J	0.00712	ND	U	0.00834	0.00215	J	0.00717	0.00477	J	0.0173	ND	U	0.00704
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.88		0.67	5.24		0.66	5.41		0.64	4.6		0.66	4.48		1.34	5.56		0.66	7.41		0.66	5.76		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP101			DP101			DP101			DP101			DP101			DP101			DP102			DP102		
			SAMPLE NO	FFOR0561			FFOR0562			FFOR0563			FFOR0564			FFOR0565			FFOR0566			FFOR0567			FFOR0568		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.52	J	4.15	4.46		4.24	5.18	J	5.29	ND	U	4.55	ND	U	4.33	ND	U	4.26	5.52		4.21	14		4.33
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.36	ND	U	4.32	ND	U	5.58	ND	U	5.77	ND	U	3.86	ND	U	4.44	ND	U	4.64	ND	U	5.2
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.344	0.131	J	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.688	ND	U	0.707	ND	U	0.867	ND	U	0.744	ND	U	0.711	ND	U	0.703	ND	U	0.695	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.344	0.321	J	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	0.0484	J	0.353
	ANTHRACENE	5,410	17,200	0.0595	J	0.344	0.408		0.354	0.0713	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.0651	J	0.347	0.185	J	0.353
	BENZENAMINE	NE	NE	ND	UJ	0.344	ND	UJ	0.354	ND	UJ	0.434	ND	UJ	0.372	ND	UJ	0.356	ND	UJ	0.351	ND	UJ	0.347	ND	UJ	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	0.0415	J	0.344	0.595		0.354	0.0462	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.042	J	0.347	0.0277	J	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	1.72	**0.507**		0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	ND	U	1.77
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	1.72	0.544		0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	ND	U	1.77
	BENZO(GHI)PERYLENE	NE	NE	ND	U	1.72	0.423		0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	0.0775	J	1.77
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	1.72	0.231	J	0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	ND	U	1.77
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.344	ND	U	0.354	0.061	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.344	0.175	J	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	0.0367	J	0.353
	CHRYSENE	160	147	0.0433	J	0.344	0.599		0.354	0.0438	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.0524	J	0.347	0.0423	J	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	1.72	ND	U	0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	ND	U	1.77
	DIBENZOFURAN	NE	NE	ND	U	0.344	0.159	J	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	FLUORANTHENE	2,430	2,290	0.0959	J	0.344	1.57		0.354	0.0823	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.103	J	0.347	0.035	J	0.353
	FLUORENE	406	2,290	ND	U	0.344	0.25	J	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	1.72	0.405		0.354	ND	U	2.17	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	3.47	ND	U	1.77
	ISOPHORONE	3.84	5,120	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.344	**0.426**		0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP101			DP101			DP101			DP101			DP101			DP101			DP102			DP102		
				SAMPLE NO	FFOR0561			FFOR0562			FFOR0563			FFOR0564			FFOR0565			FFOR0566			FFOR0567			FFOR0568		
				SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
				SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.77	ND	U	2.17	ND	U	1.86	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.77
	PHENANTHRENE	571	1,830	0.0598	J	0.344	1.67		0.354	0.0415	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.0686	J	0.347	0.0179	J	0.353
	PHENOL	99.5	18,300	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
	PYRENE	1,790	1,720	0.0714	J	0.344	1.28		0.354	0.07	J	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	0.0821	J	0.347	0.0267	J	0.353
	PYRIDINE	NE	NE	ND	U	0.344	ND	U	0.354	ND	U	0.434	ND	U	0.372	ND	U	0.356	ND	U	0.351	ND	U	0.347	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	1-CHLOROHEXANE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	2-BUTANONE	25.5	37,100	ND	U	0.00444	ND	U	0.00507	ND	U	0.00601	ND	UJ	0.00607	ND	U	0.00493	ND	U	0.00534	ND	U	0.00468	ND	U	0.00587
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	2-HEXANONE	NE	NE	ND	U	0.00444	ND	U	0.00507	ND	U	0.00601	ND	UJ	0.00607	ND	U	0.00493	ND	U	0.00534	ND	U	0.00468	ND	U	0.00587
	2-PROPENAL	0.000146	0.404	ND	U	0.0222	ND	U	0.0254	ND	U	0.0301	ND	UJ	0.0303	ND	U	0.0247	ND	U	0.0267	ND	U	0.0234	ND	U	0.0294
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0222	ND	U	0.0254	ND	U	0.0301	ND	U	0.0303	ND	U	0.0247	ND	U	0.0267	ND	U	0.0234	ND	U	0.0294
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00444	ND	U	0.00507	ND	U	0.00601	ND	UJ	0.00607	ND	U	0.00493	ND	U	0.00534	ND	U	0.00468	ND	U	0.00587
	ACETONE	77.1	66,600	0.0134	J	0.0222	0.00726	J	0.0254	0.0124	J	0.0301	ND	UJ	0.0303	0.0117	J	0.0247	0.0412		0.0267	0.0126	J	0.0234	0.0156	J	0.0294
	BENZENE	0.0345	15.4	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	0.00208	J	0.00243	0.00263		0.00197	0.00173	J	0.00214	ND	U	0.00187	ND	U	0.00235
	BROMOBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	BROMOFORM	12.1	6,116	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	BROMOMETHANE	0.0385	16.5	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CHLOROBENZENE	0.984	376	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CHLOROETHANE	107	29,800	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CHLOROFORM	0.00918	5.86	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CHLOROMETHANE	0.879	275	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	ETHYLBENZENE	0.26	68.4	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	UJ	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	M,P-XYLENES	NE	NE	ND	U	0.00356	ND	U	0.00406	ND	U	0.00481	0.00116	J	0.00485	0.000703	J	0.00395	ND	U	0.00427	ND	U	0.00374	ND	U	0.0047
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00444	ND	U	0.00507	ND	U	0.00601	ND	U	0.00607	ND	U	0.00493	ND	U	0.00534	ND	U	0.00468	ND	U	0.00587
	NAPHTHALENE	0.0713	43.0	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	N-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	N-PROPYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	O-XYLENE	3.13	898	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	0.000363	J	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP101			DP101			DP101			DP101			DP101			DP101			DP102			DP102		
			SAMPLE NO	FFOR0561			FFOR0562			FFOR0563			FFOR0564			FFOR0565			FFOR0566			FFOR0567			FFOR0568		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	STYRENE	27.7	7,280	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TOLUENE	25.3	5,270	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	0.00148	J	0.00243	0.00253		0.00197	0.00131	J	0.00214	0.000388	J	0.00187	0.00038	J	0.00235
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	VINYL ACETATE	1.52	2,560	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00178	ND	U	0.00203	ND	U	0.0024	ND	U	0.00243	ND	U	0.00197	ND	U	0.00214	ND	U	0.00187	ND	U	0.00235
	XYLENES	3.13	814	ND	U	0.00533	ND	U	0.00608	ND	U	0.00721	0.00153	J	0.00728	ND	U	0.00592	ND	U	0.00641	ND	U	0.00561	ND	U	0.00705
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.58		0.63	6.24		0.64	8.95		0.79	7.9	J-	0.68	6.5		0.65	5.03		0.64	6.36		0.63	11.8		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP102			DP102			DP102			DP103			DP103			DP103			DP103			DP103		
			SAMPLE NO	FFOR0569			FFOR0570			FFOR0571			FFOR0572			FFOR0573			FFOR0574			FFOR0575			FFOR0576		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	12800		888	193		22.1	ND	U	4.27	18.8	J	21.2	3.07	J	4.22	1.94	J	4.41	1.56	J	4.54	ND	U	4.47
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	370	J+	122	3.84	J+	4.56	ND	U	4.44	ND	U	5.65	ND	U	4.15	ND	U	5.49	ND	U	6.06	ND	U	4.29
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2-CHLOROPHENOL	2.31	391	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2-METHYLNAPHTHALENE	NE	NE	10	J	1.83	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.731	ND	U	0.731	ND	U	0.716	ND	U	14	ND	U	0.694	ND	U	0.731	ND	U	0.747	ND	U	0.74
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	4-CHLOROANILINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	ACENAPHTHYLENE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	ANTHRACENE	5,410	17,200	ND	U	0.365	ND	U	0.365	ND	U	0.358	0.0769	J	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BENZENAMINE	NE	NE	ND	UJ	0.365	ND	UJ	0.365	ND	UJ	0.358	ND	UJ	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BENZO(A)ANTHRACENE	1.57	1.48	0.0422	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BENZO(B)FLUORANTHENE	5.31	1.48	0.134	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BENZO(GHI)PERYLENE	NE	NE	0.0326	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	0.0115	J	0.347	ND	UJ	0.365	ND	UJ	0.374	ND	UJ	0.37
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0335	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	CARBAZOLE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	0.0286	J	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	CHRYSENE	160	147	0.0989	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	UJ	0.347	ND	UJ	0.365	ND	UJ	0.374	ND	UJ	0.37
	DIBENZOFURAN	NE	NE	1.38	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	DIETHYL PHTHALATE	193	48,900	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.365	0.025	J	0.365	ND	U	0.358	0.0163	J	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	FLUORANTHENE	2,430	2,290	0.276	J	0.365	0.027	J	0.365	ND	U	0.358	0.203	J	0.349	0.0158	J	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	FLUORENE	406	2,290	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0387	J	0.365	ND	U	0.365	ND	U	0.358	ND	U	6.99	ND	UJ	0.347	ND	UJ	0.365	ND	UJ	0.374	ND	UJ	0.37
	ISOPHORONE	3.84	5,120	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	NAPHTHALENE	0.0713	43.0	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	NITROBENZENE	0.0125	53.5	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP102			DP102			DP102			DP103			DP103			DP103			DP103			DP103		
			SAMPLE NO	FFOR0569			FFOR0570			FFOR0571			FFOR0572			FFOR0573			FFOR0574			FFOR0575			FFOR0576		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.83	ND	U	1.79	ND	U	1.75	ND	U	1.73	ND	U	1.83	ND	U	1.87	ND	U	1.85
	PHENANTHRENE	571	1,830	0.209	J	0.365	ND	U	0.365	ND	U	0.358	0.0567	J	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	PHENOL	99.5	18,300	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	PYRENE	1,790	1,720	0.131	J	0.365	0.0347	J	0.365	ND	U	0.358	ND	U	6.99	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
	PYRIDINE	NE	NE	ND	U	0.365	ND	U	0.365	ND	U	0.358	ND	U	0.349	ND	U	0.347	ND	U	0.365	ND	U	0.374	ND	U	0.37
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2,4-TRIMETHYLBENZENE	NE	NE	1.42		0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,3,5-TRIMETHYLBENZENE	NE	NE	4.28		0.841	0.112		0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	1-CHLOROHEXANE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	2-BUTANONE	25.5	37,100	ND	U	2.1	ND	U	0.244	ND	U	0.0049	ND	U	0.0266	ND	U	0.00417	ND	U	0.00557	ND	U	0.00567	ND	U	0.00518
	2-CHLOROTOLUENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	2-HEXANONE	NE	NE	ND	U	2.1	ND	U	0.244	ND	U	0.0049	ND	U	0.0266	ND	U	0.00417	ND	U	0.00557	ND	U	0.00567	ND	U	0.00518
	2-PROPENAL	0.000146	0.404	ND	UJ	10.5	ND	UJ	1.22	ND	U	0.0245	ND	U	0.133	ND	U	0.0209	ND	U	0.0278	ND	U	0.0283	ND	U	0.0259
	2-PROPENENITRILE	0.0016969	4.55	ND	U	10.5	ND	U	1.22	ND	U	0.0245	ND	U	0.133	ND	U	0.0209	ND	U	0.0278	ND	U	0.0283	ND	U	0.0259
	4-CHLOROTOLUENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	2.1	ND	U	0.244	ND	U	0.0049	ND	U	0.0266	ND	U	0.00417	ND	U	0.00557	ND	U	0.00567	ND	U	0.00518
	ACETONE	77.1	66,600	ND	U	10.5	ND	U	1.22	0.00847	J	0.0245	ND	U	0.133	0.00651	J	0.0209	0.0101	J	0.0278	0.0139	J	0.0283	0.00928	J	0.0259
	BENZENE	0.0345	15.4	ND	U	0.841	**0.0634**	J	0.0976	ND	U	0.00196	0.00343	J	0.0106	ND	U	0.00167	0.00408		0.00223	0.00443		0.00227	0.0031		0.00207
	BROMOBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	BROMOFORM	12.1	6,116	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	BROMOMETHANE	0.0385	16.5	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CARBON DISULFIDE	5.65	1,530	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CHLOROBENZENE	0.984	376	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CHLOROETHANE	107	29,800	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CHLOROFORM	0.00918	5.86	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CHLOROMETHANE	0.879	275	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	ETHYLBENZENE	0.26	68.4	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	UJ	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	M,P-XYLENES	NE	NE	ND	U	1.68	ND	U	0.195	ND	U	0.00392	ND	U	0.0213	ND	U	0.00334	0.0024	J	0.00445	0.00265	J	0.00454	0.00118	J	0.00415
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	METHYLENE CHLORIDE	0.824	409	ND	U	2.1	ND	U	0.244	ND	U	0.0049	ND	U	0.0266	ND	U	0.00417	ND	U	0.00557	ND	U	0.00567	ND	U	0.00518
	NAPHTHALENE	0.0713	43.0	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	N-BUTYLBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	N-PROPYLBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	O-XYLENE	3.13	898	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207

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		LOCATION CODE		DP102			DP102			DP102			DP103			DP103			DP103			DP103			DP103		
		SAMPLE NO		FFOR0569			FFOR0570			FFOR0571			FFOR0572			FFOR0573			FFOR0574			FFOR0575			FFOR0576		
		SAMPLE DATE		13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	1.88		0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	STYRENE	27.7	7,280	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TOLUENE	25.3	5,270	ND	U	0.841	ND	U	0.0976	0.000797	J	0.00196	ND	U	0.0106	0.000284	J	0.00167	0.00532		0.00223	0.00566		0.00227	0.00356		0.00207
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	VINYL ACETATE	1.52	2,560	ND	UJ	0.841	ND	UJ	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.841	ND	U	0.0976	ND	U	0.00196	ND	U	0.0106	ND	U	0.00167	ND	U	0.00223	ND	U	0.00227	ND	U	0.00207
	XYLENES	3.13	814	ND	U	2.52	ND	U	0.293	ND	U	0.00589	ND	U	0.0319	ND	U	0.00501	ND	U	0.00668	ND	U	0.0068	ND	U	0.00622
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.41		0.68	6.92		0.66	5.15		0.65	7.88		0.63	3.72		0.63	6.92		0.67	7.01		0.68	6.91		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP103			DP104			DP104			DP104			DP104			DP104			DP105			DP105		
			SAMPLE NO	FFOR0577			FFOR0578			FFOR0579			FFOR0580			FFOR0581			FFOR0582			FFOR0583			FFOR0584		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.3	6.93		4.24	5.6		4.43	1.76	J	4.2	1.67	J	4.38	1.7	J	4.27	5.57		4.23	7.49		4.22
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.07	ND	U	5.85	ND	U	4.56	ND	U	4.27	ND	U	5.26	ND	U	5.27	ND	U	5.37	ND	U	5.45
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.704	ND	U	0.731	ND	U	0.702	ND	U	0.718	ND	U	0.717	ND	U	0.71	ND	U	0.696
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0265	J	0.348
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0308	J	0.348
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.352	0.0345	J	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0824	J	0.348
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	0.022	J	0.352	0.0298	J	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	0.0143	J	0.355	0.0784	J	0.348
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0877	J	0.348
	BENZO(GHI)PERYLENE	NE	NE	ND	UJ	0.361	0.0248	J	0.352	0.0305	J	0.366	ND	UJ	0.351	ND	UJ	0.359	ND	UJ	0.358	0.014	J	0.355	0.0821	J	0.348
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	0.016	J	0.352	0.0215	J	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0459	J	0.348
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	CHRYSENE	160	147	ND	U	0.361	0.0227	J	0.352	0.0368	J	0.366	0.0173	J	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.0954	J	0.348
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	UJ	0.361	ND	UJ	0.352	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.359	ND	UJ	0.358	ND	UJ	0.355	0.014	J	0.348
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	FLUORANTHENE	2,430	2,290	ND	U	0.361	0.0321	J	0.352	0.0548	J	0.366	0.00832	J	0.351	ND	U	0.359	ND	U	0.358	0.0256	J	0.355	0.222	J	0.348
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	0.017	J	0.348
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	UJ	0.361	ND	UJ	0.352	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.359	ND	UJ	0.358	ND	UJ	0.355	0.0679	J	0.348
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP103			DP104			DP104			DP104			DP104			DP104			DP105			DP105		
			SAMPLE NO	FFOR0577			FFOR0578			FFOR0579			FFOR0580			FFOR0581			FFOR0582			FFOR0583			FFOR0584		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.76	ND	U	1.83	ND	U	1.75	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.74
	PHENANTHRENE	571	1,830	ND	U	0.361	0.0207	J	0.352	0.037	J	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	0.016	J	0.355	0.169	J	0.348
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
	PYRENE	1,790	1,720	ND	U	0.361	0.0304	J	0.352	0.0505	J	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	0.0171	J	0.355	0.163	J	0.348
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.366	ND	U	0.351	ND	U	0.359	ND	U	0.358	ND	U	0.355	ND	U	0.348
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	0.000506	J	0.00224	0.00129	J	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	0.000421	J	0.00224	0.000938	J	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	1-CHLOROHEXANE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	2-BUTANONE	25.5	37,100	ND	U	0.00433	ND	U	0.00624	ND	U	0.00434	0.00388	J	0.00559	ND	U	0.00476	ND	U	0.00545	ND	U	0.00596	0.00194	J	0.00462
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	2-HEXANONE	NE	NE	ND	U	0.00433	ND	U	0.00624	ND	U	0.00434	ND	U	0.00559	ND	U	0.00476	ND	U	0.00545	ND	U	0.00596	ND	U	0.00462
	2-PROPENAL	0.000146	0.404	ND	U	0.0217	ND	U	0.0312	ND	U	0.0217	ND	UJ	0.028	ND	U	0.0238	ND	U	0.0273	ND	U	0.0298	ND	UJ	0.0231
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0217	ND	U	0.0312	ND	U	0.0217	ND	U	0.028	ND	U	0.0238	ND	U	0.0273	ND	U	0.0298	ND	U	0.0231
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00433	ND	U	0.00624	ND	U	0.00434	ND	U	0.00559	ND	U	0.00476	ND	U	0.00545	ND	U	0.00596	ND	U	0.00462
	ACETONE	77.1	66,600	0.0139	J	0.0217	0.013	J	0.0312	0.0127	J	0.0217	0.0225	J	0.028	0.0128	J	0.0238	0.0166	J	0.0273	0.00406	J	0.0298	0.00206	J	0.0231
	BENZENE	0.0345	15.4	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	0.00234		0.00224	0.00544		0.0019	ND	U	0.00218	0.00196	J	0.00239	0.00042	J	0.00185
	BROMOBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	BROMOFORM	12.1	6,116	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	BROMOMETHANE	0.0385	16.5	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CHLOROBENZENE	0.984	376	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CHLOROETHANE	107	29,800	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CHLOROFORM	0.00918	5.86	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	0.000569	J	0.00185
	CHLOROMETHANE	0.879	275	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	ETHYLBENZENE	0.26	68.4	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	0.000863	J	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	UJ	0.00239	ND	U	0.00185
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	M,P-XYLENES	NE	NE	ND	U	0.00346	ND	U	0.005	ND	U	0.00347	0.00134	J	0.00448	0.00345	J	0.00381	ND	U	0.00436	ND	U	0.00477	ND	U	0.0037
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00433	ND	U	0.00624	ND	U	0.00434	ND	U	0.00559	ND	U	0.00476	ND	U	0.00545	ND	U	0.00596	ND	U	0.00462
	NAPHTHALENE	0.0713	43.0	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	N-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	UJ	0.00239	ND	U	0.00185
	N-PROPYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	O-XYLENE	3.13	898	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	0.00139	J	0.00224	0.00164	J	0.0019	0.000828	J	0.00218	ND	U	0.00239	ND	U	0.00185

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP103			DP104			DP104			DP104			DP104			DP104			DP105			DP105		
			SAMPLE NO	FFOR0577			FFOR0578			FFOR0579			FFOR0580			FFOR0581			FFOR0582			FFOR0583			FFOR0584		
			SAMPLE DATE	13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11			13-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	UJ	0.00239	ND	U	0.00185
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	STYRENE	27.7	7,280	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TOLUENE	25.3	5,270	0.000542	J	0.00173	ND	U	0.0025	0.000359	J	0.00173	0.0032		0.00224	0.00711		0.0019	0.00108	J	0.00218	0.000782	J	0.00239	ND	U	0.00185
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	VINYL ACETATE	1.52	2,560	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	UJ	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	UJ	0.00185
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00173	ND	U	0.0025	ND	U	0.00173	ND	U	0.00224	ND	U	0.0019	ND	U	0.00218	ND	U	0.00239	ND	U	0.00185
	XYLENES	3.13	814	ND	U	0.0052	ND	U	0.00749	ND	U	0.0052	0.00274	J	0.00671	0.00509	J	0.00571	0.000828	J	0.00654	ND	U	0.00716	ND	U	0.00555
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.79		0.65	7.84		0.65	7.97		0.66	4.93		0.64	6.88		0.66	4.82		0.65	6.61	J-	0.65	15.3		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP105			DP105			DP105			DP105			DP106			DP106			DP106			DP106		
		SAMPLE NO		FFOR0585			FFOR0586			FFOR0587			FFOR0588			FFOR0589			FFOR0590			FFOR0591			FFOR0592		
		SAMPLE DATE		12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.59	ND	U	4.59	ND	U	4.35	ND	U	4.32	9.61		4.38	5.96		4.2	6.71		4.18	2.89	J	4.58
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.65	ND	U	6.17	ND	U	7.47	ND	U	7.06	ND	U	4.09	ND	U	6.18	ND	U	4.47	ND	U	4.31
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2-CHLOROPHENOL	2.31	391	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.012	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.746	ND	U	0.762	ND	U	0.725	ND	U	0.713	ND	U	0.723	ND	U	0.7	ND	U	0.694	ND	U	0.755
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	4-CHLOROANILINE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0575	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	ACENAPHTHYLENE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	ANTHRACENE	5,410	17,200	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.12	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BENZENAMINE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.229	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	**0.2**	J	0.361	0.0177	J	0.35	ND	U	0.347	ND	U	0.378
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.222	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.241	J	0.361	0.0166	J	0.35	ND	UJ	0.347	ND	UJ	0.378
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0941	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	CARBAZOLE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0651	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	CHRYSENE	160	147	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.231	J	0.361	0.0229	J	0.35	ND	U	0.347	ND	U	0.378
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0403	J	0.361	ND	UJ	0.35	ND	UJ	0.347	ND	UJ	0.378
	DIBENZOFURAN	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0309	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	DIETHYL PHTHALATE	193	48,900	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	FLUORANTHENE	2,430	2,290	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.521		0.361	0.0337	J	0.35	ND	U	0.347	ND	U	0.378
	FLUORENE	406	2,290	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.0436	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.199	J	0.361	ND	UJ	0.35	ND	UJ	0.347	ND	UJ	0.378
	ISOPHORONE	3.84	5,120	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	NAPHTHALENE	0.0713	43.0	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.028	J	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	NITROBENZENE	0.0125	53.5	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP105			DP105			DP105			DP105			DP106			DP106			DP106			DP106		
			SAMPLE NO	FFOR0585			FFOR0586			FFOR0587			FFOR0588			FFOR0589			FFOR0590			FFOR0591			FFOR0592		
			SAMPLE DATE	12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.9	ND	U	1.81	ND	U	1.78	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.464		0.361	0.0198	J	0.35	ND	U	0.347	ND	U	0.378
	PHENOL	99.5	18,300	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
	PYRENE	1,790	1,720	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	0.457		0.361	0.0224	J	0.35	ND	U	0.347	ND	U	0.378
	PYRIDINE	NE	NE	ND	U	0.373	ND	U	0.381	ND	U	0.362	ND	U	0.357	ND	U	0.361	ND	U	0.35	ND	U	0.347	ND	U	0.378
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000849	J	0.00244	0.000658	J	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000485	J	0.00244	0.000364	J	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	0.000209	J	0.00178
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	1-CHLOROHEXANE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	2-BUTANONE	25.5	37,100	0.00357	J	0.00611	ND	U	0.00525	ND	U	0.00645	ND	U	0.00671	0.0025	J	0.00414	ND	U	0.00531	0.00226	J	0.00447	0.00266	J	0.00446
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	2-HEXANONE	NE	NE	ND	U	0.00611	ND	U	0.00525	ND	U	0.00645	ND	U	0.00671	ND	U	0.00414	ND	U	0.00531	ND	U	0.00447	ND	U	0.00446
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0305	ND	UJ	0.0263	ND	UJ	0.0323	ND	UJ	0.0335	ND	UJ	0.0207	ND	UJ	0.0265	ND	UJ	0.0223	ND	UJ	0.0223
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0305	ND	U	0.0263	ND	U	0.0323	ND	U	0.0335	ND	U	0.0207	ND	U	0.0265	ND	U	0.0223	ND	U	0.0223
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00611	ND	U	0.00525	ND	U	0.00645	ND	U	0.00671	ND	U	0.00414	ND	U	0.00531	ND	U	0.00447	ND	U	0.00446
	ACETONE	77.1	66,600	0.0176	J	0.0305	0.00728	J	0.0263	0.0377		0.0323	0.0261	J	0.0335	0.00723	J	0.0207	ND	U	0.0265	0.00554	J	0.0223	0.00523	J	0.0223
	BENZENE	0.0345	15.4	0.00288		0.00244	0.00205	J	0.0021	0.00111	J	0.00258	0.000931	J	0.00268	0.000345	J	0.00166	0.00104	J	0.00212	0.000763	J	0.00179	0.00142	J	0.00178
	BROMOBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	BROMOFORM	12.1	6,116	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	BROMOMETHANE	0.0385	16.5	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CHLOROBENZENE	0.984	376	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CHLOROETHANE	107	29,800	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CHLOROFORM	0.00918	5.86	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CHLOROMETHANE	0.879	275	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	ETHYLBENZENE	0.26	68.4	0.00058	J	0.00244	0.000404	J	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	M,P-XYLENES	NE	NE	ND	U	0.00489	0.00167	J	0.0042	ND	U	0.00516	ND	U	0.00537	ND	U	0.00331	ND	U	0.00424	ND	U	0.00357	ND	U	0.00356
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00611	ND	U	0.00525	ND	U	0.00645	ND	U	0.00671	ND	U	0.00414	ND	U	0.00531	ND	U	0.00447	ND	U	0.00446
	NAPHTHALENE	0.0713	43.0	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	N-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	N-PROPYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	O-XYLENE	3.13	898	ND	U	0.00244	0.000439	J	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	0.000834	J	0.00178

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP105			DP105			DP105			DP105			DP106			DP106			DP106			DP106		
		SAMPLE NO		FFOR0585			FFOR0586			FFOR0587			FFOR0588			FFOR0589			FFOR0590			FFOR0591			FFOR0592		
		SAMPLE DATE		12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	STYRENE	27.7	7,280	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TOLUENE	25.3	5,270	0.00411		0.00244	0.00262		0.0021	0.00271		0.00258	0.00168	J	0.00268	ND	U	0.00166	ND	U	0.00212	0.000754	J	0.00179	0.00139	J	0.00178
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	VINYL ACETATE	1.52	2,560	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	UJ	0.00166	ND	UJ	0.00212	ND	UJ	0.00179	ND	UJ	0.00178
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00244	ND	U	0.0021	ND	U	0.00258	ND	U	0.00268	ND	U	0.00166	ND	U	0.00212	ND	U	0.00179	ND	U	0.00178
	XYLENES	3.13	814	ND	U	0.00733	0.00211	J	0.00631	ND	U	0.00774	ND	U	0.00805	ND	U	0.00497	ND	U	0.00637	ND	U	0.00536	0.00106	J	0.00535
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.27		0.69	9.5		0.69	5.73		0.66	5.75		0.65	9.5		0.66	3.66		0.63	3.5		0.63	8.15		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP106			DP107			DP107			DP107			DP107			DP107			DP107			DP108		
			SAMPLE NO	FFOR0593			FFOR0594			FFOR0595			FFOR0596			FFOR0597			FFOR0598			FFOR0599			FFOR0600		
			SAMPLE DATE	14-Jul-11			14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			FD			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.89	J	4.28	12.7		4.3	8.47	J	8.58	ND	U	4.17	ND	U	4.23	ND	U	4.52	ND	U	4.25	6.77		4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.11	ND	U	4.63	ND	U	6.14	ND	U	6.12	ND	U	5.8	ND	U	5.32	ND	U	7.39	ND	U	4.08
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.706	ND	U	0.714	ND	U	0.708	ND	U	0.686	ND	U	0.696	ND	U	0.747	ND	U	0.703	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.353	0.0192	J	0.357	0.024	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	0.0548	J	0.357	0.0754	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	0.0536	J	0.357	0.113	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.018	J	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	0.0659	J	0.357	0.188	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	UJ	0.353	0.047	J	0.357	0.0434	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.0145	J	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	0.0318	J	0.357	0.0815	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.357	0.0235	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.353	0.0598	J	0.357	0.0929	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.024	J	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	UJ	0.353	ND	UJ	0.357	0.0137	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.353	0.129	J	0.357	0.163	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.0367	J	0.359
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	UJ	0.353	0.0378	J	0.357	0.0381	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP106			DP107			DP107			DP107			DP107			DP107			DP107			DP108		
		SAMPLE NO		FFOR0593			FFOR0594			FFOR0595			FFOR0596			FFOR0597			FFOR0598			FFOR0599			FFOR0600		
		SAMPLE DATE		14-Jul-11			14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.79	ND	U	1.77	ND	U	1.71	ND	U	1.74	ND	U	1.87	ND	U	1.76	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.353	0.0958	J	0.357	0.0628	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.0192	J	0.359
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.353	0.0928	J	0.357	0.0674	J	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	0.0243	J	0.359
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.357	ND	U	0.354	ND	U	0.343	ND	U	0.348	ND	U	0.373	ND	U	0.352	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	0.00128	J	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	0.000751	J	0.00213	ND	U	0.00231	ND	U	0.00178
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	1-CHLOROHEXANE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	2-BUTANONE	25.5	37,100	0.00277	J	0.00431	0.00317	J	0.00477	0.0055	J	0.00737	0.00337	J	0.00494	0.00281	J	0.00525	0.00419	J	0.00532	0.00344	J	0.00577	0.00206	J	0.00444
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	2-HEXANONE	NE	NE	ND	U	0.00431	ND	U	0.00477	ND	U	0.00737	ND	U	0.00494	ND	U	0.00525	ND	U	0.00532	ND	U	0.00577	ND	U	0.00444
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0215	ND	UJ	0.0239	ND	U	0.0368	ND	UJ	0.0247	ND	UJ	0.0263	ND	UJ	0.0266	ND	UJ	0.0288	ND	UJ	0.0222
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0215	ND	U	0.0239	ND	U	0.0368	ND	U	0.0247	ND	U	0.0263	ND	U	0.0266	ND	U	0.0288	ND	U	0.0222
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00431	ND	U	0.00477	ND	U	0.00737	ND	U	0.00494	ND	U	0.00525	ND	U	0.00532	ND	U	0.00577	ND	U	0.00444
	ACETONE	77.1	66,600	0.00517	J	0.0215	0.00666	J	0.0239	0.042		0.0368	0.0218	J	0.0247	0.0192	J	0.0263	0.015	J	0.0266	0.0146	J	0.0288	0.00439	J	0.0222
	BENZENE	0.0345	15.4	0.000452	J	0.00172	0.000463	J	0.00191	0.00902		0.00295	0.000664	J	0.00197	0.000599	J	0.0021	0.0034		0.00213	0.000385	J	0.00231	0.000361	J	0.00178
	BROMOBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	BROMOFORM	12.1	6,116	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	BROMOMETHANE	0.0385	16.5	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CHLOROBENZENE	0.984	376	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CHLOROETHANE	107	29,800	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CHLOROFORM	0.00918	5.86	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CHLOROMETHANE	0.879	275	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	ETHYLBENZENE	0.26	68.4	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	0.000807	J	0.00213	ND	U	0.00231	ND	U	0.00178
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	M,P-XYLENES	NE	NE	ND	U	0.00345	ND	U	0.00382	ND	U	0.0059	ND	U	0.00395	ND	U	0.0042	ND	U	0.00426	ND	U	0.00461	ND	U	0.00355
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00431	ND	U	0.00477	0.00288	J	0.00737	ND	U	0.00494	ND	U	0.00525	ND	U	0.00532	ND	U	0.00577	ND	U	0.00444
	NAPHTHALENE	0.0713	43.0	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	N-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	N-PROPYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	O-XYLENE	3.13	898	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP106			DP107			DP107			DP107			DP107			DP107			DP107			DP108		
		SAMPLE NO		FFOR0593			FFOR0594			FFOR0595			FFOR0596			FFOR0597			FFOR0598			FFOR0599			FFOR0600		
		SAMPLE DATE		14-Jul-11			14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	STYRENE	27.7	7,280	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TOLUENE	25.3	5,270	0.000507	J	0.00172	ND	U	0.00191	0.00157	J	0.00295	0.0013	J	0.00197	0.00113	J	0.0021	0.00521		0.00213	0.000856	J	0.00231	ND	U	0.00178
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00172	ND	UJ	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	UJ	0.00178
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00172	ND	U	0.00191	ND	U	0.00295	ND	U	0.00197	ND	U	0.0021	ND	U	0.00213	ND	U	0.00231	ND	U	0.00178
	XYLENES	3.13	814	ND	U	0.00517	ND	U	0.00573	ND	U	0.00884	ND	U	0.00592	ND	U	0.0063	ND	U	0.00638	ND	U	0.00692	ND	U	0.00533
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.1		0.65	6.63		0.64	7.69		0.65	3.47		0.62	5.04		0.64	9.14		0.68	3.84		0.64	6.14		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP108			DP108			DP108			DP108			DP109			DP109			DP109			DP109		
			SAMPLE NO	FFOR0601			FFOR0602			FFOR0603			FFOR0604			FFOR0605			FFOR0606			FFOR0607			FFOR0608		
			SAMPLE DATE	14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	16.4		8.74	ND	U	4.4	ND	U	4.44	ND	U	4.22	3.47	J	4.27	12.9		4.52	10.1		4.24	ND	U	4.49
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.22	ND	U	6.62	ND	U	5.87	ND	U	5.87	ND	U	7.12	ND	U	5.48	ND	U	6.23	ND	U	6
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	UJ	1.73	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.71	ND	U	0.724	ND	U	0.742	ND	U	0.7	ND	U	0.704	ND	U	0.738	ND	U	0.691	ND	U	0.747
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZO(A)PYRENE	0.52	0.148	0.024	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	0.0166	J	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZO(B)FLUORANTHENE	5.31	1.48	0.033	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZO(GHI)PERYLENE	NE	NE	0.0153	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0148	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	0.0361	J	0.345	ND	U	0.373
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	CHRYSENE	160	147	0.0291	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	0.025	J	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DIBENZOFURAN	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	FLUORANTHENE	2,430	2,290	0.0501	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	0.0269	J	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP108			DP108			DP108			DP108			DP109			DP109			DP109			DP109		
			SAMPLE NO	FFOR0601			FFOR0602			FFOR0603			FFOR0604			FFOR0605			FFOR0606			FFOR0607			FFOR0608		
			SAMPLE DATE	14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.75	ND	U	1.76	ND	U	1.84	ND	U	1.73	ND	U	1.87
	PHENANTHRENE	571	1,830	0.0238	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	0.0116	J	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	PYRENE	1,790	1,720	0.0287	J	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	0.0176	J	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.371	ND	U	0.35	ND	U	0.352	ND	U	0.369	ND	U	0.345	ND	U	0.373
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	0.00105	J	0.00222	0.00135	J	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	0.000213	J	0.00186
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	0.000591	J	0.00222	0.000783	J	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	0.000232	J	0.00221	0.000335	J	0.00186
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	1-CHLOROHEXANE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	2-BUTANONE	25.5	37,100	0.00585		0.00577	0.00317	J	0.00556	0.00376	J	0.00573	0.00528		0.00507	0.00316	J	0.00588	0.00503	J	0.00826	0.0038	J	0.00552	0.00261	J	0.00466
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	2-HEXANONE	NE	NE	ND	U	0.00577	ND	U	0.00556	ND	U	0.00573	ND	U	0.00507	ND	U	0.00588	ND	U	0.00826	ND	U	0.00552	ND	U	0.00466
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0288	ND	UJ	0.0278	ND	UJ	0.0287	ND	UJ	0.0253	ND	UJ	0.0294	ND	UJ	0.0413	ND	UJ	0.0276	ND	UJ	0.0233
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0288	ND	U	0.0278	ND	U	0.0287	ND	U	0.0253	ND	U	0.0294	ND	U	0.0413	ND	U	0.0276	ND	U	0.0233
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00577	ND	U	0.00556	ND	U	0.00573	ND	U	0.00507	ND	U	0.00588	ND	U	0.00826	ND	U	0.00552	ND	U	0.00466
	ACETONE	77.1	66,600	0.0196	J	0.0288	0.00862	J	0.0278	0.0125	J	0.0287	0.0179	J	0.0253	0.00766	J	0.0294	0.0156	J	0.0413	0.00934	J	0.0276	0.00356	J	0.0233
	BENZENE	0.0345	15.4	0.000426	J	0.00231	0.0029		0.00222	0.00406		0.00229	0.000609	J	0.00203	0.000273	J	0.00235	0.000399	J	0.0033	0.00135	J	0.00221	0.00167	J	0.00186
	BROMOBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	BROMOFORM	12.1	6,116	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	BROMOMETHANE	0.0385	16.5	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CHLOROBENZENE	0.984	376	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CHLOROETHANE	107	29,800	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CHLOROFORM	0.00918	5.86	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CHLOROMETHANE	0.879	275	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	ETHYLBENZENE	0.26	68.4	ND	U	0.00231	0.000712	J	0.00222	0.000855	J	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	M,P-XYLENES	NE	NE	ND	U	0.00461	ND	U	0.00445	ND	U	0.00459	ND	U	0.00405	ND	U	0.00471	ND	U	0.00661	ND	U	0.00441	0.000571	J	0.00373
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00577	ND	U	0.00556	ND	U	0.00573	ND	U	0.00507	ND	U	0.00588	ND	U	0.00826	ND	U	0.00552	ND	U	0.00466
	NAPHTHALENE	0.0713	43.0	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	N-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	N-PROPYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	O-XYLENE	3.13	898	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	0.00104	J	0.00221	0.000932	J	0.00186

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP108			DP108			DP108			DP108			DP109			DP109			DP109			DP109		
		SAMPLE NO		FFOR0601			FFOR0602			FFOR0603			FFOR0604			FFOR0605			FFOR0606			FFOR0607			FFOR0608		
		SAMPLE DATE		14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	STYRENE	27.7	7,280	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TOLUENE	25.3	5,270	0.000999	J	0.00231	0.00456		0.00222	0.0056		0.00229	0.000835	J	0.00203	0.000478	J	0.00235	0.0011	J	0.0033	0.00173	J	0.00221	0.00195		0.00186
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	UJ	0.00235	ND	UJ	0.0033	ND	UJ	0.00221	ND	UJ	0.00186
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00231	ND	U	0.00222	ND	U	0.00229	ND	U	0.00203	ND	U	0.00235	ND	U	0.0033	ND	U	0.00221	ND	U	0.00186
	XYLENES	3.13	814	ND	U	0.00692	ND	U	0.00667	ND	U	0.00688	ND	U	0.00608	ND	U	0.00706	ND	U	0.00991	0.00116	J	0.00662	0.0015	J	0.00559
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	10.2		0.66	6.25		0.66	7.94		0.67	4.18		0.64	5.23		0.65	3.66		1.36	3.98	J-	0.64	8.41		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP109			DP109			DP110			DP110			DP110			DP110			DP110			DP110		
			SAMPLE NO	FFOR0609			FFOR0610			FFOR0611			FFOR0612			FFOR0613			FFOR0614			FFOR0615			FFOR0616		
			SAMPLE DATE	14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.65	J	4.42	1.95	J	4.46	12.4		4.34	3.72	J	4.27	11.1		8.52	1.56	J	4.2	1.9	J	4.35	1.52	J	4.42
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.34	ND	U	5.3	ND	U	5.25	ND	U	4.99	ND	U	4.17	ND	U	4.72	ND	U	5.18	ND	U	5.21
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2-CHLOROPHENOL	2.31	391	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.735	ND	U	0.739	ND	U	0.705	ND	U	0.705	ND	U	0.715	ND	U	0.683	ND	U	0.718	ND	U	0.737
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	4-CHLOROANILINE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	ACENAPHTHYLENE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	ANTHRACENE	5,410	17,200	ND	U	0.367	ND	U	0.37	0.0282	J	0.352	0.031	J	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BENZENAMINE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.367	ND	U	0.37	0.0703	J	0.352	0.0915	J	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.367	ND	U	0.37	0.0712	J	0.352	0.0906	J	0.352	0.0232	J	0.357	0.0213	J	0.342	ND	U	0.359	ND	U	0.369
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.367	ND	U	0.37	0.0933	J	0.352	0.122	J	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.367	ND	U	0.37	0.0281	J	0.352	0.0288	J	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.367	ND	U	0.37	0.048	J	0.352	0.0552	J	0.352	0.0164	J	0.357	0.0142	J	0.342	ND	U	0.359	ND	U	0.369
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.367	ND	U	0.37	0.0301	J	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	0.267	J	0.359	ND	U	0.369
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	CARBAZOLE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	CHRYSENE	160	147	ND	U	0.367	ND	U	0.37	0.0911	J	0.352	0.109	J	0.352	0.0282	J	0.357	0.0257	J	0.342	ND	U	0.359	ND	U	0.369
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	DIBENZOFURAN	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	DIETHYL PHTHALATE	193	48,900	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.367	ND	U	0.37	0.0268	J	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	FLUORANTHENE	2,430	2,290	ND	U	0.367	ND	U	0.37	0.264	J	0.352	0.213	J	0.352	0.0417	J	0.357	0.0526	J	0.342	ND	U	0.359	ND	U	0.369
	FLUORENE	406	2,290	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	ISOPHORONE	3.84	5,120	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	NAPHTHALENE	0.0713	43.0	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	NITROBENZENE	0.0125	53.5	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP109			DP109			DP110			DP110			DP110			DP110			DP110			DP110		
			SAMPLE NO	FFOR0609			FFOR0610			FFOR0611			FFOR0612			FFOR0613			FFOR0614			FFOR0615			FFOR0616		
			SAMPLE DATE	14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.85	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.71	ND	U	1.79	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.367	ND	U	0.37	0.137	J	0.352	0.112	J	0.352	0.0207	J	0.357	0.0327	J	0.342	ND	U	0.359	ND	U	0.369
	PHENOL	99.5	18,300	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
	PYRENE	1,790	1,720	ND	U	0.367	ND	U	0.37	0.124	J	0.352	0.117	J	0.352	0.022	J	0.357	0.0267	J	0.342	ND	U	0.359	ND	U	0.369
	PYRIDINE	NE	NE	ND	U	0.367	ND	U	0.37	ND	U	0.352	ND	U	0.352	ND	U	0.357	ND	U	0.342	ND	U	0.359	ND	U	0.369
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	0.000443	J	0.002	ND	U	0.0022
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	0.000433	J	0.002	ND	U	0.0022
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	2-BUTANONE	25.5	37,100	0.00337	J	0.00506	0.0054	J	0.00632	0.0044	J	0.00525	0.00498	J	0.0063	0.00361	J	0.00571	0.00329	J	0.00538	0.0042	J	0.005	0.00458	J	0.0055
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	2-HEXANONE	NE	NE	ND	U	0.00506	ND	U	0.00632	ND	U	0.00525	ND	U	0.0063	ND	U	0.00571	ND	U	0.00538	ND	U	0.005	ND	U	0.0055
	2-PROPENAL	0.000146	0.404	ND	U	0.0253	ND	U	0.0316	ND	U	0.0262	ND	U	0.0315	ND	U	0.0286	ND	U	0.0269	ND	U	0.025	ND	U	0.0275
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0253	ND	U	0.0316	ND	U	0.0262	ND	U	0.0315	ND	U	0.0286	ND	U	0.0269	ND	U	0.025	ND	U	0.0275
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00506	ND	U	0.00632	ND	U	0.00525	ND	U	0.0063	ND	U	0.00571	ND	U	0.00538	ND	U	0.005	ND	U	0.0055
	ACETONE	77.1	66,600	0.00627	J	0.0253	0.0129	J	0.0316	0.0188	J	0.0262	0.0192	J	0.0315	0.0164	J	0.0286	0.0137	J	0.0269	0.0113	J	0.025	0.0161	J	0.0275
	BENZENE	0.0345	15.4	0.000345	J	0.00202	0.000292	J	0.00253	0.000371	J	0.0021	0.000377	J	0.00252	0.000404	J	0.00229	0.000362	J	0.00215	0.00326		0.002	0.000374	J	0.0022
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	BROMOMETHANE	0.0385	16.5	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CHLOROFORM	0.00918	5.86	0.000722	J	0.00202	0.000922	J	0.00253	0.000769	J	0.0021	0.000962	J	0.00252	0.000792	J	0.00229	0.000737	J	0.00215	0.000919	J	0.002	0.000914	J	0.0022
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	ETHYLBENZENE	0.26	68.4	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	0.000328	J	0.002	ND	U	0.0022
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00202	ND	UJ	0.00253	ND	UJ	0.0021	ND	UJ	0.00252	ND	UJ	0.00229	ND	UJ	0.00215	ND	UJ	0.002	ND	UJ	0.0022
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	M,P-XYLENES	NE	NE	ND	U	0.00405	ND	U	0.00506	ND	U	0.0042	ND	U	0.00504	ND	U	0.00457	ND	U	0.0043	0.00125	J	0.004	ND	U	0.0044
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00506	ND	U	0.00632	ND	U	0.00525	ND	U	0.0063	ND	U	0.00571	ND	U	0.00538	ND	U	0.005	ND	U	0.0055
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	0.000113	J	0.002	ND	U	0.0022
	O-XYLENE	3.13	898	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	0.00118	J	0.002	ND	U	0.0022

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		LOCATION CODE		DP109			DP109			DP110			DP110			DP110			DP110			DP110			DP110		
		SAMPLE NO		FFOR0609			FFOR0610			FFOR0611			FFOR0612			FFOR0613			FFOR0614			FFOR0615			FFOR0616		
		SAMPLE DATE		14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11			14-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TOLUENE	25.3	5,270	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	0.000724	J	0.00215	0.00359		0.002	ND	U	0.0022
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.00253	ND	U	0.0021	ND	U	0.00252	ND	U	0.00229	ND	U	0.00215	ND	U	0.002	ND	U	0.0022
	XYLENES	3.13	814	ND	U	0.00607	ND	U	0.00758	ND	U	0.0063	ND	U	0.00755	ND	U	0.00686	ND	U	0.00646	0.00243	J	0.006	ND	U	0.0066
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.58		0.67	5.25		0.67	9.54		0.65	9.24		0.65	5.61		0.64	2.87		0.63	7.76		0.66	5.14	J-	0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP111			DP111			DP111			DP111			DP111			DP112			DP112			DP112		
			SAMPLE NO	FFOR0617			FFOR0618			FFOR0620			FFOR0621			FFOR0622			FFOR0623			FFOR0624			FFOR0625		
			SAMPLE DATE	14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	17.1		4.29	13.2		8.72	ND	U	4.16	ND	U	4.46	ND	U	4.4	6.56	J	8.67	8.97	J	9.19	5.45		4.09
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.21	ND	U	6.45	ND	U	5.48	ND	U	5.31	ND	U	6.44	ND	U	6.26	ND	U	5.04	ND	U	5.62
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2-METHYLNAPHTHALENE	NE	NE	0.0119	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.699	ND	U	0.71	ND	U	0.691	ND	U	0.733	ND	U	0.738	ND	U	0.715	ND	U	0.758	ND	U	0.675
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	ACENAPHTHENE	338	3,440	0.0284	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	0.0242	J	0.379	ND	U	0.338
	ANTHRACENE	5,410	17,200	0.0604	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0521	J	0.358	0.0612	J	0.379	ND	U	0.338
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BENZO(A)ANTHRACENE	1.57	1.48	0.133	J	0.349	0.0323	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BENZO(A)PYRENE	0.52	0.148	0.136	J	0.349	0.0332	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0259	J	0.358	ND	U	0.379	ND	U	0.338
	BENZO(B)FLUORANTHENE	5.31	1.48	0.183	J	0.349	0.0511	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0358	J	0.358	ND	U	0.379	ND	U	0.338
	BENZO(GHI)PERYLENE	NE	NE	0.0366	J	0.349	0.0136	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0334	J	0.358	ND	U	0.379	ND	U	0.338
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0847	J	0.349	0.0261	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	0.0407	J	0.355	0.103	J	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	CARBAZOLE	NE	NE	0.0306	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	CHRYSENE	160	147	0.146	J	0.349	0.0409	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0314	J	0.358	ND	U	0.379	ND	U	0.338
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.013	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	DIBENZOFURAN	NE	NE	0.0151	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	DI-N-BUTYL PHTHALATE	139	6,110	0.0145	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	FLUORANTHENE	2,430	2,290	0.306	J	0.349	0.082	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0453	J	0.358	0.0112	J	0.379	ND	U	0.338
	FLUORENE	406	2,290	0.0267	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	0.019	J	0.379	ND	U	0.338
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.355	0.00426	J	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0428	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	NAPHTHALENE	0.0713	43.0	0.0349	J	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP111			DP111			DP111			DP111			DP111			DP112			DP112			DP112		
			SAMPLE NO	FFOR0617			FFOR0618			FFOR0620			FFOR0621			FFOR0622			FFOR0623			FFOR0624			FFOR0625		
			SAMPLE DATE	14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.77	ND	U	1.73	ND	U	1.83	ND	U	1.84	ND	U	1.79	ND	U	1.9	ND	U	1.69
	PHENANTHRENE	571	1,830	0.202	J	0.349	0.0407	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0311	J	0.358	0.0505	J	0.379	ND	U	0.338
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
	PYRENE	1,790	1,720	0.156	J	0.349	0.0377	J	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	0.0411	J	0.358	0.0202	J	0.379	ND	U	0.338
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.355	ND	U	0.346	ND	U	0.367	ND	U	0.369	ND	U	0.358	ND	U	0.379	ND	U	0.338
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	0.00132	J	0.00234	0.000578	J	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	0.000812	J	0.00234	0.000327	J	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	0.000152	J	0.00212
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	1-CHLOROHEXANE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	2-BUTANONE	25.5	37,100	0.00285	J	0.00414	0.00791		0.00748	0.00415	J	0.00585	ND	U	0.00351	0.00305	J	0.0067	0.00192	J	0.00742	ND	U	0.00494	ND	U	0.0053
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	2-HEXANONE	NE	NE	ND	U	0.00414	ND	U	0.00748	ND	U	0.00585	ND	U	0.00351	ND	U	0.0067	ND	U	0.00742	ND	U	0.00494	ND	U	0.0053
	2-PROPENAL	0.000146	0.404	ND	U	0.0207	ND	U	0.0374	ND	UJ	0.0293	ND	UJ	0.0176	ND	UJ	0.0335	ND	U	0.0371	ND	UJ	0.0247	ND	UJ	0.0265
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0207	ND	U	0.0374	ND	U	0.0293	ND	U	0.0176	ND	U	0.0335	ND	U	0.0371	ND	U	0.0247	ND	U	0.0265
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00414	ND	U	0.00748	ND	U	0.00585	ND	U	0.00351	ND	U	0.0067	ND	U	0.00742	ND	U	0.00494	ND	U	0.0053
	ACETONE	77.1	66,600	0.00864	J	0.0207	0.0379		0.0374	0.0119	J	0.0293	0.00516	J	0.0176	0.0136	J	0.0335	0.0287	J	0.0371	0.0072	J	0.0247	0.0197	J	0.0265
	BENZENE	0.0345	15.4	0.000283	J	0.00166	0.00166	J	0.00299	0.00409		0.00234	0.00154		0.00141	ND	U	0.00268	0.000896	J	0.00297	ND	U	0.00198	0.00113	J	0.00212
	BROMOBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	BROMOFORM	12.1	6,116	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	BROMOMETHANE	0.0385	16.5	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CHLOROBENZENE	0.984	376	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CHLOROETHANE	107	29,800	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CHLOROFORM	0.00918	5.86	0.000784	J	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CHLOROMETHANE	0.879	275	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	ETHYLBENZENE	0.26	68.4	ND	U	0.00166	ND	U	0.00299	0.000873	J	0.00234	0.000289	J	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	M,P-XYLENES	NE	NE	ND	U	0.00331	ND	U	0.00599	ND	U	0.00468	ND	U	0.00281	ND	U	0.00536	ND	U	0.00594	ND	U	0.00395	ND	U	0.00424
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00414	ND	U	0.00748	ND	U	0.00585	ND	U	0.00351	ND	U	0.0067	ND	U	0.00742	ND	U	0.00494	ND	U	0.0053
	NAPHTHALENE	0.0713	43.0	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	N-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	N-PROPYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	O-XYLENE	3.13	898	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	0.000978	J	0.00212

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP111			DP111			DP111			DP111			DP111			DP112			DP112			DP112		
			SAMPLE NO	FFOR0617			FFOR0618			FFOR0620			FFOR0621			FFOR0622			FFOR0623			FFOR0624			FFOR0625		
			SAMPLE DATE	14-Jul-11			14-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	STYRENE	27.7	7,280	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TOLUENE	25.3	5,270	ND	U	0.00166	0.00157	J	0.00299	0.00547		0.00234	0.00205		0.00141	0.00064	J	0.00268	ND	U	0.00297	ND	U	0.00198	0.00173	J	0.00212
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	VINYL ACETATE	1.52	2,560	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00166	ND	U	0.00299	ND	U	0.00234	ND	U	0.00141	ND	U	0.00268	ND	U	0.00297	ND	U	0.00198	ND	U	0.00212
	XYLENES	3.13	814	ND	U	0.00497	ND	U	0.00898	ND	U	0.00702	ND	U	0.00422	ND	U	0.00804	ND	U	0.00891	ND	U	0.00593	0.00121	J	0.00636
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.85		0.64	7.15		0.65	4.09	J-	0.63	9.42		0.67	4.81		0.67	11.4		0.65	4.67		0.69	3.17		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP112			DP112			DP113			DP113			DP113			DP113			DP113			DP113		
			SAMPLE NO	FFOR0626			FFOR0627			FFOR0628			FFOR0629			FFOR0630			FFOR0631			FFOR0632			FFOR0633		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.74	ND	U	4.41	14.8		8.53	5.53		4.31	2.69	J	4.2	5		4.19	ND	U	4.52	ND	U	4.46
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.5	ND	U	6.12	ND	U	6.5	ND	U	6.85	ND	U	5.94	ND	U	6.94	ND	U	6.93	ND	U	4.11
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,4-DINITROPHENOL	1.26	122	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2-CHLOROPHENOL	2.31	391	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2-METHYLPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	2-NITROANILINE	NE	NE	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.769	ND	U	0.723	ND	U	0.692	ND	U	0.713	ND	U	0.694	ND	U	0.679	ND	U	0.748	ND	U	0.735
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	3-NITROANILINE	NE	NE	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	4-CHLOROANILINE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	4-NITROANILINE	NE	NE	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	ACENAPHTHYLENE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	ANTHRACENE	5,410	17,200	ND	U	0.385	ND	U	0.362	0.0538	J	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZENAMINE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.385	ND	U	0.362	0.0367	J	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	CARBAZOLE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	CHRYSENE	160	147	ND	U	0.385	ND	U	0.362	0.052	J	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DIBENZOFURAN	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DIETHYL PHTHALATE	193	48,900	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	FLUORANTHENE	2,430	2,290	ND	U	0.385	ND	U	0.362	0.0627	J	0.346	0.00815	J	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	FLUORENE	406	2,290	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.385	ND	U	0.362	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	0.34	ND	U	0.374	ND	U	0.368
	ISOPHORONE	3.84	5,120	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	NAPHTHALENE	0.0713	43.0	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	NITROBENZENE	0.0125	53.5	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP112			DP112			DP113			DP113			DP113			DP113			DP113			DP113		
			SAMPLE NO	FFOR0626			FFOR0627			FFOR0628			FFOR0629			FFOR0630			FFOR0631			FFOR0632			FFOR0633		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.92	ND	U	1.81	ND	U	1.73	ND	U	1.78	ND	U	1.73	ND	U	1.7	ND	U	1.87	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.385	ND	U	0.362	0.0326	J	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	PHENOL	99.5	18,300	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	PYRENE	1,790	1,720	ND	U	0.385	ND	U	0.362	0.0465	J	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
	PYRIDINE	NE	NE	ND	U	0.385	ND	U	0.362	ND	U	0.346	ND	U	0.356	ND	U	0.347	ND	U	0.34	ND	U	0.374	ND	U	0.368
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000146	J	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	0.000414	J	0.00196	0.000346	J	0.0023	0.0015	J	0.00231	ND	U	0.00287
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.00032	J	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	0.000354	J	0.00196	0.000395	J	0.0023	0.00107	J	0.00231	ND	U	0.00287
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	1-CHLOROHEXANE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	2-BUTANONE	25.5	37,100	ND	U	0.00578	ND	U	0.00732	ND	U	0.00554	ND	U	0.00414	ND	U	0.00491	ND	U	0.00575	ND	U	0.00579	ND	U	0.00718
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	2-HEXANONE	NE	NE	ND	U	0.00578	ND	U	0.00732	ND	U	0.00554	ND	U	0.00414	ND	U	0.00491	ND	U	0.00575	ND	U	0.00579	ND	U	0.00718
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0289	ND	UJ	0.0366	ND	UJ	0.0277	ND	UJ	0.0207	ND	UJ	0.0246	ND	UJ	0.0288	ND	UJ	0.0289	ND	UJ	0.0359
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0289	ND	U	0.0366	ND	U	0.0277	ND	U	0.0207	ND	U	0.0246	ND	U	0.0288	ND	U	0.0289	ND	U	0.0359
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00578	ND	U	0.00732	ND	U	0.00554	ND	U	0.00414	ND	U	0.00491	ND	U	0.00575	ND	U	0.00579	ND	U	0.00718
	ACETONE	77.1	66,600	0.00626	J	0.0289	0.0128	J	0.0366	0.0126	J	0.0277	0.00635	J	0.0207	0.0268		0.0246	0.0237	J	0.0288	0.0138	J	0.0289	0.0153	J	0.0359
	BENZENE	0.0345	15.4	0.00243		0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	0.00306		0.00196	0.00328		0.0023	0.00646		0.00231	0.000966	J	0.00287
	BROMOBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	BROMOFORM	12.1	6,116	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	BROMOMETHANE	0.0385	16.5	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CHLOROBENZENE	0.984	376	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CHLOROETHANE	107	29,800	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CHLOROFORM	0.00918	5.86	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CHLOROMETHANE	0.879	275	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	ETHYLBENZENE	0.26	68.4	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	M,P-XYLENES	NE	NE	0.000678	J	0.00463	ND	U	0.00585	ND	U	0.00443	ND	U	0.00332	0.00144	J	0.00393	0.0015	J	0.0046	0.00418	J	0.00463	ND	U	0.00574
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00578	ND	U	0.00732	ND	U	0.00554	ND	U	0.00414	ND	U	0.00491	ND	U	0.00575	ND	U	0.00579	ND	U	0.00718
	NAPHTHALENE	0.0713	43.0	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	N-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	N-PROPYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	O-XYLENE	3.13	898	0.0011	J	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	0.00121	J	0.00196	0.00139	J	0.0023	0.00202	J	0.00231	ND	U	0.00287

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP112			DP112			DP113			DP113			DP113			DP113			DP113			DP113		
		SAMPLE NO		FFOR0626			FFOR0627			FFOR0628			FFOR0629			FFOR0630			FFOR0631			FFOR0632			FFOR0633		
		SAMPLE DATE		18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	STYRENE	27.7	7,280	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TOLUENE	25.3	5,270	0.00268		0.00231	0.000579	J	0.00293	0.00096	J	0.00222	ND	U	0.00166	0.00389		0.00196	0.00445		0.0023	0.00848		0.00231	0.000613	J	0.00287
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	VINYL ACETATE	1.52	2,560	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00231	ND	U	0.00293	ND	U	0.00222	ND	U	0.00166	ND	U	0.00196	ND	U	0.0023	ND	U	0.00231	ND	U	0.00287
	XYLENES	3.13	814	0.00178	J	0.00694	ND	U	0.00878	ND	U	0.00665	ND	U	0.00497	0.00265	J	0.00589	0.00289	J	0.0069	0.0062	J	0.00694	ND	U	0.00861
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.62		0.71	5.48		0.66	6.73		0.64	3.62		0.65	3.76		0.63	4.64		0.62	8.34		0.69	5.68		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP114			DP114			DP114			DP114			DP114			DP115			DP115			DP115		
			SAMPLE NO	FFOR0634			FFOR0635			FFOR0636			FFOR0637			FFOR0638			FFOR0639			FFOR0640			FFOR0641		
			SAMPLE DATE	18-Jul-11			18-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.28	J	4.27	8.06		4.36	ND	U	4.17	ND	U	4.48	ND	U	4.32	14.5		4.32	4.38	J	4.44	ND	U	4.32
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.45	ND	U	8.35	ND	U	7.84	ND	U	5.44	ND	U	6.23	ND	U	5.44	ND	U	6.1	ND	U	5.58
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	UJ	8.88	ND	U	1.85	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	U	8.88	ND	U	1.85	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.697	ND	U	0.717	ND	U	0.692	ND	U	0.742	ND	U	0.715	ND	U	3.55	ND	U	0.74	ND	U	0.712
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	U	8.88	ND	U	1.85	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	U	8.88	ND	U	1.85	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	UJ	8.88	ND	U	1.85	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	U	8.88	ND	U	1.85	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	ANTHRACENE	5,410	17,200	0.0149	J	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZO(A)ANTHRACENE	1.57	1.48	0.0569	J	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZO(A)PYRENE	0.52	0.148	0.0595	J	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0731	J	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZO(GHI)PERYLENE	NE	NE	0.0586	J	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0266	J	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	0.0258	J	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	CHRYSENE	160	147	0.0736	J	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	FLUORANTHENE	2,430	2,290	0.101	J	0.349	0.0142	J	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	UJ	1.78	ND	U	0.37	ND	U	0.356
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.053	J	0.349	ND	U	1.79	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP114			DP114			DP114			DP114			DP114			DP115			DP115			DP115		
			SAMPLE NO	FFOR0634			FFOR0635			FFOR0636			FFOR0637			FFOR0638			FFOR0639			FFOR0640			FFOR0641		
			SAMPLE DATE	18-Jul-11			18-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.79	ND	U	1.73	ND	U	1.85	ND	U	1.79	ND	U	8.88	ND	U	1.85	ND	U	1.78
	PHENANTHRENE	571	1,830	0.0574	J	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	PYRENE	1,790	1,720	0.095	J	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.358	ND	U	0.346	ND	U	0.371	ND	U	0.357	ND	U	1.78	ND	U	0.37	ND	U	0.356
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	0.000693	J	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	0.000251	J	0.00238
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	1-CHLOROHEXANE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	2-BUTANONE	25.5	37,100	ND	U	0.00551	ND	U	0.00787	0.00555	J	0.01	ND	U	0.0052	0.0053	J	0.00569	0.00619	J	0.00888	ND	U	0.00796	ND	U	0.00596
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	2-HEXANONE	NE	NE	ND	U	0.00551	ND	U	0.00787	ND	U	0.01	ND	U	0.0052	ND	U	0.00569	ND	U	0.00888	ND	U	0.00796	ND	U	0.00596
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0276	ND	UJ	0.0394	ND	UJ	0.0502	ND	UJ	0.026	ND	UJ	0.0284	ND	U	0.0444	ND	UJ	0.0398	ND	UJ	0.0298
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0276	ND	U	0.0394	ND	U	0.0502	ND	U	0.026	ND	U	0.0284	ND	U	0.0444	ND	U	0.0398	ND	U	0.0298
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00551	ND	U	0.00787	ND	U	0.01	ND	U	0.0052	ND	U	0.00569	ND	U	0.00888	ND	U	0.00796	ND	U	0.00596
	ACETONE	77.1	66,600	0.0114	J	0.0276	0.0159	J	0.0394	0.026	J	0.0502	0.00813	J	0.026	0.023	J	0.0284	0.0198	J	0.0444	0.0121	J	0.0398	0.0291	J	0.0298
	BENZENE	0.0345	15.4	ND	U	0.00221	ND	U	0.00315	0.0019	J	0.00401	0.00159	J	0.00208	ND	U	0.00227	0.00177	J	0.00355	0.0019	J	0.00318	0.00178	J	0.00238
	BROMOBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	BROMOFORM	12.1	6,116	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	BROMOMETHANE	0.0385	16.5	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CHLOROBENZENE	0.984	376	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CHLOROETHANE	107	29,800	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CHLOROFORM	0.00918	5.86	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CHLOROMETHANE	0.879	275	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	ETHYLBENZENE	0.26	68.4	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	M,P-XYLENES	NE	NE	ND	U	0.00441	ND	U	0.0063	ND	U	0.00803	ND	U	0.00416	ND	U	0.00455	ND	U	0.0071	ND	U	0.00637	0.000553	J	0.00477
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00551	ND	U	0.00787	ND	U	0.01	ND	U	0.0052	ND	U	0.00569	ND	U	0.00888	ND	U	0.00796	ND	U	0.00596
	NAPHTHALENE	0.0713	43.0	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	N-BUTYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	N-PROPYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	O-XYLENE	3.13	898	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	0.00116	J	0.00238

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP114			DP114			DP114			DP114			DP114			DP115			DP115			DP115		
			SAMPLE NO	FFOR0634			FFOR0635			FFOR0636			FFOR0637			FFOR0638			FFOR0639			FFOR0640			FFOR0641		
			SAMPLE DATE	18-Jul-11			18-Jul-11			12-Apr-12			12-Apr-12			12-Apr-12			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	STYRENE	27.7	7,280	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TOLUENE	25.3	5,270	0.000602	J	0.00221	0.000431	J	0.00315	0.00413		0.00401	0.00188	J	0.00208	0.000753	J	0.00227	ND	U	0.00355	ND	U	0.00318	0.00237	J	0.00238
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	VINYL ACETATE	1.52	2,560	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00221	ND	U	0.00315	ND	U	0.00401	ND	U	0.00208	ND	U	0.00227	ND	U	0.00355	ND	U	0.00318	ND	U	0.00238
	XYLENES	3.13	814	ND	U	0.00662	ND	U	0.00945	ND	U	0.012	ND	U	0.00624	ND	U	0.00682	ND	U	0.0107	ND	U	0.00955	0.00172	J	0.00715
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.69		0.64	6.05		0.65	3.68		0.64	6.75		0.68	4.94		0.66	10.9		0.65	9.89		0.67	8.13		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP115			DP115			DP115			DP116			DP116			DP116			DP116			DP116		
			SAMPLE NO	FFOR0642			FFOR0643			FFOR0644			FFOR0645			FFOR0646			FFOR0647			FFOR0648			FFOR0649		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.73	ND	U	4.34	3.04	J	4.4	15		8.65	17		4.38	51.2		4.43	2.28	J	4.52	1.63	J	4.32
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.11	ND	U	5.69	ND	U	4.27	ND	U	4.56	ND	U	5.52	ND	U	5.23	ND	U	6.76	ND	U	6.4
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.78	ND	U	0.723	ND	U	0.726	ND	U	0.702	ND	U	0.715	ND	U	0.72	ND	U	0.746	ND	U	0.702
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	0.0467	J	0.36	ND	U	0.373	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	ANTHRACENE	5,410	17,200	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	0.339	J	0.36	ND	U	0.373	ND	U	0.351
	BENZENAMINE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0505	J	0.351	ND	U	0.358	1.46		0.36	ND	U	0.373	ND	U	0.351
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0507	J	0.351	0.0134	J	0.358	**1.34**		0.36	ND	U	0.373	ND	U	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0563	J	0.351	ND	U	0.358	**1.63**		0.36	ND	U	0.373	ND	U	0.351
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0432	J	0.351	0.0155	J	0.358	0.84		0.36	ND	U	0.373	ND	U	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0253	J	0.351	ND	U	0.358	0.583		0.36	ND	U	0.373	ND	U	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.39	ND	U	0.362	0.0248	J	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	CARBAZOLE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	0.0301	J	0.36	ND	U	0.373	ND	U	0.351
	CHRYSENE	160	147	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0552	J	0.351	0.0176	J	0.358	1.85		0.36	ND	U	0.373	ND	U	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	**0.285**	J	0.36	ND	U	0.373	ND	U	0.351
	DIBENZOFURAN	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	FLUORANTHENE	2,430	2,290	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0638	J	0.351	0.0306	J	0.358	2.07		0.36	0.00957	J	0.373	0.00726	J	0.351
	FLUORENE	406	2,290	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	0.0432	J	0.36	ND	U	0.373	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0349	J	0.351	ND	U	0.358	0.821		0.36	ND	U	0.373	ND	U	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP115			DP115			DP115			DP116			DP116			DP116			DP116			DP116		
			SAMPLE NO	FFOR0642			FFOR0643			FFOR0644			FFOR0645			FFOR0646			FFOR0647			FFOR0648			FFOR0649		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.95	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.87	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0274	J	0.351	0.023	J	0.358	0.624		0.36	ND	U	0.373	ND	U	0.351
	PHENOL	99.5	18,300	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
	PYRENE	1,790	1,720	ND	U	0.39	ND	U	0.362	ND	U	0.363	0.0546	J	0.351	0.0234	J	0.358	2.02		0.36	ND	U	0.373	ND	U	0.351
	PYRIDINE	NE	NE	ND	U	0.39	ND	U	0.362	ND	U	0.363	ND	U	0.351	ND	U	0.358	ND	U	0.36	ND	U	0.373	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000623	J	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000541	J	0.00186	0.000167	J	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	0.000254	J	0.00173	ND	U	0.00184	ND	U	0.00243
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	1-CHLOROHEXANE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	2-BUTANONE	25.5	37,100	ND	U	0.00464	ND	U	0.00654	ND	U	0.00523	ND	U	0.00561	ND	U	0.00682	ND	U	0.00434	0.00346	J	0.0046	0.00939		0.00608
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	2-HEXANONE	NE	NE	ND	U	0.00464	ND	U	0.00654	ND	U	0.00523	ND	U	0.00561	ND	U	0.00682	ND	U	0.00434	ND	U	0.0046	ND	U	0.00608
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0232	ND	UJ	0.0327	ND	UJ	0.0261	ND	UJ	0.0281	ND	UJ	0.0341	ND	UJ	0.0217	ND	U	0.023	ND	U	0.0304
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0232	ND	U	0.0327	ND	U	0.0261	ND	U	0.0281	ND	U	0.0341	ND	U	0.0217	ND	U	0.023	ND	U	0.0304
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00464	ND	U	0.00654	ND	U	0.00523	ND	U	0.00561	ND	U	0.00682	ND	U	0.00434	ND	U	0.0046	ND	U	0.00608
	ACETONE	77.1	66,600	0.00982	J	0.0232	0.0165	J	0.0327	0.00987	J	0.0261	0.016	J	0.0281	0.0404		0.0341	0.00477	J	0.0217	0.00525	J	0.023	0.0359		0.0304
	BENZENE	0.0345	15.4	0.00386		0.00186	0.00147	J	0.00261	ND	U	0.00209	ND	U	0.00224	0.0008	J	0.00273	ND	U	0.00173	0.00201		0.00184	0.00147	J	0.00243
	BROMOBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	BROMOFORM	12.1	6,116	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	BROMOMETHANE	0.0385	16.5	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CHLOROBENZENE	0.984	376	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CHLOROETHANE	107	29,800	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CHLOROFORM	0.00918	5.86	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CHLOROMETHANE	0.879	275	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	ETHYLBENZENE	0.26	68.4	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	M,P-XYLENES	NE	NE	0.00197	J	0.00371	ND	U	0.00523	ND	U	0.00418	ND	U	0.00449	ND	U	0.00546	ND	U	0.00347	0.000559	J	0.00368	ND	U	0.00487
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00464	ND	U	0.00654	ND	U	0.00523	ND	U	0.00561	ND	U	0.00682	ND	U	0.00434	ND	U	0.0046	ND	U	0.00608
	NAPHTHALENE	0.0713	43.0	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	N-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	N-PROPYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	O-XYLENE	3.13	898	0.00119	J	0.00186	0.00104	J	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	0.000933	J	0.00184	0.00104	J	0.00243

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP115			DP115			DP115			DP116			DP116			DP116			DP116			DP116		
		SAMPLE NO		FFOR0642			FFOR0643			FFOR0644			FFOR0645			FFOR0646			FFOR0647			FFOR0648			FFOR0649		
		SAMPLE DATE		18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	STYRENE	27.7	7,280	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TOLUENE	25.3	5,270	0.00452		0.00186	0.00182	J	0.00261	0.000629	J	0.00209	0.0006	J	0.00224	0.00371		0.00273	ND	U	0.00173	0.00217		0.00184	0.00159	J	0.00243
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	VINYL ACETATE	1.52	2,560	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00186	ND	U	0.00261	ND	U	0.00209	ND	U	0.00224	ND	U	0.00273	ND	U	0.00173	ND	U	0.00184	ND	U	0.00243
	XYLENES	3.13	814	0.00317	J	0.00557	0.00104	J	0.00784	ND	U	0.00627	ND	U	0.00673	ND	U	0.00819	ND	U	0.0052	0.00149	J	0.00552	0.00104	J	0.0073
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	10.7		0.71	6.86		0.66	6.73		0.65	9.01		0.65	10.1		0.66	7.12		0.67	7.69		0.68	5.14		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP117			DP117			DP117			DP117			DP117			DP117			DP118			DP118		
		SAMPLE NO		FFOR0650			FFOR0651			FFOR0652			FFOR0653			FFOR0654			FFOR0655			FFOR0656			FFOR0657		
		SAMPLE DATE		18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	13.8		8.48	10.6		4.38	1.86	J	4.49	2.9	J	4.39	ND	U	4.59	ND	U	4.43	3.89	J	4.25	8.81		4.21
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.95	ND	U	4.65	ND	U	4.86	ND	U	3.8	ND	U	4.09	ND	U	4.77	ND	U	4.61	ND	U	6.44
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.723	ND	U	0.741	ND	U	0.727	ND	U	0.771	ND	U	0.723	ND	U	0.71	ND	U	0.706
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0124	J	0.355	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	0.029	J	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0355	J	0.355	0.0358	J	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	1.78	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0359	J	0.355	0.0488	J	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	1.78	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0469	J	0.355	0.0794	J	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	1.78	0.0444	J	0.362	0.0458	J	0.37	0.0545	J	0.364	0.188	J	0.385	ND	U	0.362	0.0416	J	0.355	0.0558	J	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	1.78	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0151	J	0.355	0.0342	J	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	0.177	J	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	CHRYSENE	160	147	0.032	J	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0403	J	0.355	0.0664	J	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	1.78	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	FLUORANTHENE	2,430	2,290	0.055	J	0.356	0.00849	J	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0716	J	0.355	0.0687	J	0.353
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	1.78	ND	U	0.362	ND	U	0.37	ND	U	0.364	0.0479	J	0.385	ND	U	0.362	0.0336	J	0.355	0.0533	J	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP117			DP117			DP117			DP117			DP117			DP117			DP118			DP118		
			SAMPLE NO	FFOR0650			FFOR0651			FFOR0652			FFOR0653			FFOR0654			FFOR0655			FFOR0656			FFOR0657		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.81	ND	U	1.85	ND	U	1.82	ND	U	1.93	ND	U	1.81	ND	U	1.77	ND	U	1.77
	PHENANTHRENE	571	1,830	0.0383	J	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0625	J	0.355	0.0396	J	0.353
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
	PYRENE	1,790	1,720	0.0361	J	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	0.0709	J	0.355	0.0735	J	0.353
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.362	ND	U	0.37	ND	U	0.364	ND	U	0.385	ND	U	0.362	ND	U	0.355	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	1-CHLOROHEXANE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	2-BUTANONE	25.5	37,100	0.00458	J	0.0062	0.00459	J	0.00633	0.00333	J	0.00399	0.00265	J	0.00434	0.00418	J	0.00491	0.003	J	0.00435	0.00367	J	0.00533	0.00339	J	0.00508
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	2-HEXANONE	NE	NE	ND	U	0.0062	ND	U	0.00633	ND	U	0.00399	ND	U	0.00434	ND	U	0.00491	ND	U	0.00435	ND	U	0.00533	ND	U	0.00508
	2-PROPENAL	0.000146	0.404	ND	U	0.031	ND	U	0.0316	ND	UJ	0.02	ND	U	0.0217	ND	U	0.0245	ND	U	0.0218	ND	UJ	0.0267	ND	U	0.0254
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.031	ND	U	0.0316	ND	U	0.02	ND	U	0.0217	ND	U	0.0245	ND	U	0.0218	ND	U	0.0267	ND	U	0.0254
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0062	ND	U	0.00633	ND	U	0.00399	ND	U	0.00434	ND	U	0.00491	ND	U	0.00435	ND	U	0.00533	ND	U	0.00508
	ACETONE	77.1	66,600	0.012	J	0.031	0.0141	J	0.0316	0.00293	J	0.02	0.00527	J	0.0217	0.0101	J	0.0245	0.00506	J	0.0218	0.0093	J	0.0267	0.0118	J	0.0254
	BENZENE	0.0345	15.4	0.00048	J	0.00248	0.000612	J	0.00253	ND	U	0.0016	0.000709	J	0.00173	0.0024		0.00196	0.000362	J	0.00174	0.000444	J	0.00213	0.000394	J	0.00203
	BROMOBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	BROMOFORM	12.1	6,116	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	BROMOMETHANE	0.0385	16.5	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CHLOROBENZENE	0.984	376	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CHLOROETHANE	107	29,800	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CHLOROFORM	0.00918	5.86	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CHLOROMETHANE	0.879	275	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	ETHYLBENZENE	0.26	68.4	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	M,P-XYLENES	NE	NE	ND	U	0.00496	ND	U	0.00506	0.000415	J	0.00319	ND	U	0.00347	0.000804	J	0.00392	ND	U	0.00348	ND	U	0.00427	ND	U	0.00407
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0062	ND	U	0.00633	ND	U	0.00399	ND	U	0.00434	ND	U	0.00491	ND	U	0.00435	ND	U	0.00533	ND	U	0.00508
	NAPHTHALENE	0.0713	43.0	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	N-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	N-PROPYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	O-XYLENE	3.13	898	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	0.00105	J	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP117			DP117			DP117			DP117			DP117			DP117			DP118			DP118		
		SAMPLE NO		FFOR0650			FFOR0651			FFOR0652			FFOR0653			FFOR0654			FFOR0655			FFOR0656			FFOR0657		
		SAMPLE DATE		18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	STYRENE	27.7	7,280	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TOLUENE	25.3	5,270	0.000829	J	0.00248	ND	U	0.00253	0.000822	J	0.0016	0.000778	J	0.00173	0.00259		0.00196	0.000436	J	0.00174	0.000333	J	0.00213	0.0006	J	0.00203
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	VINYL ACETATE	1.52	2,560	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00248	ND	U	0.00253	ND	U	0.0016	ND	U	0.00173	ND	U	0.00196	ND	U	0.00174	ND	U	0.00213	ND	U	0.00203
	XYLENES	3.13	814	ND	U	0.00744	ND	U	0.00759	0.000415	J	0.00479	ND	U	0.0052	0.00186	J	0.00589	ND	U	0.00522	ND	U	0.0064	ND	U	0.0061
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.83		0.64	21.7		0.66	3.91		0.67	5.34		0.66	8.11		0.7	4.57		0.66	13.5		0.65	4.47		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP118			DP118			DP118			DP119			DP119			DP119			DP119			DP119		
			SAMPLE NO	FFOR0658			FFOR0659			FFOR0660			FFOR0661			FFOR0662			FFOR0663			FFOR0664			FFOR0665		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.22	1.62	J	4.34	ND	U	4.36	6.14		4.3	4.42		4.27	48.5	J-	4.28	ND	U	4.41	1.72	J	4.41
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.7	ND	U	3.87	ND	U	3.92	ND	U	7.6	ND	U	5.4	ND	U	5.37	ND	U	6.08	ND	U	4.57
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.696	ND	U	0.716	ND	U	0.707	ND	U	0.699	ND	U	0.703	ND	U	3.48	ND	U	0.715	ND	U	0.722
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	UJ	1.79	ND	UJ	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	UJ	0.357	ND	UJ	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	UJ	1.79	ND	UJ	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	0.102	J	1.74	ND	U	0.357	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	UJ	0.357	ND	UJ	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.358	ND	U	0.354	0.0279	J	0.35	ND	U	0.351	**2**		1.74	ND	U	0.357	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	0.0151	J	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	ND	U	0.351	**3.5**		1.74	ND	U	0.357	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	0.0168	J	0.351	0.96	J	1.74	0.037	J	0.357	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	ND	U	0.351	1.24	J	1.74	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.358	ND	U	0.354	0.0358	J	0.35	0.0182	J	0.351	2.52		1.74	ND	U	0.357	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.358	ND	U	0.354	0.0481	J	0.35	0.0259	J	0.351	5.09		1.74	ND	U	0.357	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	1.75	ND	U	0.351	0.979	J	1.74	ND	U	0.357	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP118			DP118			DP118			DP119			DP119			DP119			DP119			DP119		
			SAMPLE NO	FFOR0658			FFOR0659			FFOR0660			FFOR0661			FFOR0662			FFOR0663			FFOR0664			FFOR0665		
			SAMPLE DATE	18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.79	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	8.69	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.358	ND	U	0.354	0.0265	J	0.35	0.0177	J	0.351	0.788	J	1.74	ND	U	0.357	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.358	ND	U	0.354	0.0347	J	0.35	0.0281	J	0.351	7.37		1.74	ND	U	0.357	0.0189	J	0.361
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.358	ND	U	0.354	ND	U	0.35	ND	U	0.351	ND	U	1.74	ND	U	0.357	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	0.000179	J	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	0.000258	J	0.00214	ND	U	0.00207	ND	U	0.0017
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	1-CHLOROHEXANE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	2-BUTANONE	25.5	37,100	0.00509		0.00473	0.00356	J	0.00464	0.0023	J	0.00419	0.00268	J	0.00407	0.00423		0.00423	0.0045	J	0.00536	0.00689		0.00517	0.00492		0.00426
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	2-HEXANONE	NE	NE	ND	U	0.00473	ND	U	0.00464	ND	U	0.00419	ND	U	0.00407	ND	U	0.00423	ND	U	0.00536	ND	U	0.00517	ND	U	0.00426
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0236	ND	UJ	0.0232	ND	UJ	0.021	ND	UJ	0.0203	ND	UJ	0.0211	ND	U	0.0268	ND	UJ	0.0258	ND	UJ	0.0213
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0236	ND	U	0.0232	ND	U	0.021	ND	U	0.0203	ND	U	0.0211	ND	U	0.0268	ND	U	0.0258	ND	U	0.0213
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00473	ND	U	0.00464	ND	U	0.00419	ND	U	0.00407	ND	U	0.00423	ND	U	0.00536	ND	U	0.00517	ND	U	0.00426
	ACETONE	77.1	66,600	0.035		0.0236	0.0092	J	0.0232	0.0038	J	0.021	0.00446	J	0.0203	0.00814	J	0.0211	0.0215	J	0.0268	0.015	J	0.0258	0.00721	J	0.0213
	BENZENE	0.0345	15.4	0.0017	J	0.00189	0.00175	J	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	0.00196	J	0.00214	0.00216		0.00207	ND	U	0.0017
	BROMOBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	BROMOFORM	12.1	6,116	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	BROMOMETHANE	0.0385	16.5	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CHLOROBENZENE	0.984	376	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CHLOROETHANE	107	29,800	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CHLOROFORM	0.00918	5.86	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CHLOROMETHANE	0.879	275	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	ETHYLBENZENE	0.26	68.4	0.000272	J	0.00189	0.000376	J	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	0.000543	J	0.00207	ND	U	0.0017
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	M,P-XYLENES	NE	NE	0.00144	J	0.00378	0.00129	J	0.00371	ND	U	0.00335	ND	U	0.00325	ND	U	0.00338	0.000444	J	0.00428	0.00143	J	0.00413	ND	U	0.00341
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00473	ND	U	0.00464	ND	U	0.00419	ND	U	0.00407	ND	U	0.00423	ND	U	0.00536	ND	U	0.00517	ND	U	0.00426
	NAPHTHALENE	0.0713	43.0	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	N-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	N-PROPYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	O-XYLENE	3.13	898	0.000401	J	0.00189	0.000351	J	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	0.00105	J	0.00214	0.000341	J	0.00207	ND	U	0.0017

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		LOCATION CODE		DP118			DP118			DP118			DP119			DP119			DP119			DP119			DP119		
		SAMPLE NO		FFOR0658			FFOR0659			FFOR0660			FFOR0661			FFOR0662			FFOR0663			FFOR0664			FFOR0665		
		SAMPLE DATE		18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11			18-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	STYRENE	27.7	7,280	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TOLUENE	25.3	5,270	0.00247		0.00189	0.00228		0.00186	0.000443	J	0.00168	0.000745	J	0.00163	0.000429	J	0.00169	0.00222		0.00214	0.0027		0.00207	0.000444	J	0.0017
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	VINYL ACETATE	1.52	2,560	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00189	ND	U	0.00186	ND	U	0.00168	ND	U	0.00163	ND	U	0.00169	ND	U	0.00214	ND	U	0.00207	ND	U	0.0017
	XYLENES	3.13	814	0.00184	J	0.00568	0.00164	J	0.00557	ND	U	0.00503	ND	U	0.00488	ND	U	0.00507	0.00149	J	0.00643	0.00177	J	0.0062	ND	U	0.00511
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.04		0.63	6.59		0.65	4.6		0.65	11.9	J-	0.64	5.13		0.64	6.21	J-	0.64	7.41		0.66	5.02		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP119			DP120			DP120			DP120			DP120			DP120			DP120			DP121		
			SAMPLE NO	FFOR0666			FFOR0667			FFOR0668			FFOR0669			FFOR0670			FFOR0671			FFOR0672			FFOR0673		
			SAMPLE DATE	18-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	FD			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.34	7.58		4.35	6.92		4.26	9.5		4.39	5.58		4.12	2.32	J	4.59	1.54	J	4.46	4.46		4.23
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.38	ND	U	4.52	ND	U	4.69	ND	U	8.22	ND	U	6.34	ND	U	5.64	ND	U	4.06	ND	U	5.25
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	UJ	0.355	ND	UJ	0.357	ND	UJ	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	UJ	0.348
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	1.71	ND	U	1.92	ND	U	1.84	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.139	J	0.348
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	1.71	ND	U	1.92	ND	U	1.84	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.711	ND	U	3.57	ND	U	3.62	ND	U	0.682	ND	U	0.77	ND	U	0.735	ND	U	0.696
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	3-NITROANILINE	NE	NE	ND	UJ	1.79	ND	UJ	1.78	ND	UJ	1.79	ND	UJ	1.81	ND	UJ	1.71	ND	UJ	1.92	ND	UJ	1.84	ND	UJ	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	1.71	ND	U	1.92	ND	U	1.84	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	4-CHLOROANILINE	NE	NE	ND	UJ	0.358	ND	UJ	0.355	ND	UJ	0.357	ND	UJ	0.362	ND	UJ	0.341	ND	UJ	0.385	ND	UJ	0.368	ND	UJ	0.348
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	4-NITROANILINE	NE	NE	ND	UJ	1.79	ND	UJ	1.78	ND	UJ	1.79	ND	UJ	1.81	ND	UJ	1.71	ND	UJ	1.92	ND	UJ	1.84	ND	UJ	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	1.71	ND	U	1.92	ND	U	1.84	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.358	0.0229	J	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.499		0.348
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	ANTHRACENE	5,410	17,200	ND	U	0.358	0.0376	J	0.355	0.0239	J	0.357	0.015	J	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.629		0.348
	BENZENAMINE	NE	NE	ND	UJ	0.358	ND	UJ	0.355	ND	UJ	0.357	ND	UJ	0.362	ND	UJ	0.341	ND	UJ	0.385	ND	UJ	0.368	ND	UJ	0.348
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	0.0834	J	0.355	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	1.08		0.348
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	0.0859	J	1.78	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	**0.904**	J	3.48
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.997	J	3.48
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.358	0.0864	J	1.78	0.0607	J	1.79	0.0897	J	1.81	ND	U	0.341	ND	U	0.385	0.306	J	0.368	0.957	J	3.48
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.438	J	3.48
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.355	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	CARBAZOLE	NE	NE	ND	U	0.358	0.0222	J	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.306	J	0.348
	CHRYSENE	160	147	ND	U	0.358	0.0919	J	0.355	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	1.14		0.348
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	**0.208**	J	3.48
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.214	J	0.348
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	FLUORANTHENE	2,430	2,290	0.0217	J	0.358	0.21	J	0.355	0.122	J	0.357	0.112	J	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	2.96		0.348
	FLUORENE	406	2,290	ND	U	0.358	0.016	J	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	0.356		0.348
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	0.11	J	0.368	0.791	J	3.48
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	**0.37**		0.348
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP119			DP120			DP120			DP120			DP120			DP120			DP120			DP120			DP121		
		SAMPLE NO		FFOR0666			FFOR0667			FFOR0668			FFOR0669			FFOR0670			FFOR0671			FFOR0672			FFOR0673				
		SAMPLE DATE		18-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11				
		SAMPLE PURPOSE		FD			REG			FD			REG			REG			REG			REG			REG				
		SAMPLE DEPTH		20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.81	ND	U	1.71	ND	U	1.92	ND	U	1.84	ND	U	1.74			
	PHENANTHRENE	571	1,830	ND	U	0.358	0.144	J	0.355	0.0718	J	0.357	0.0452	J	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	2.74		0.348			
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
	PYRENE	1,790	1,720	0.0394	J	0.358	0.0896	J	0.355	0.0963	J	1.79	ND	U	1.81	ND	U	0.341	ND	U	0.385	ND	U	0.368	2.07		0.348			
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.355	ND	U	0.357	ND	U	0.362	ND	U	0.341	ND	U	0.385	ND	U	0.368	ND	U	0.348			
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	1-CHLOROHEXANE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	2-BUTANONE	25.5	37,100	0.00516		0.00423	0.00497		0.00487	0.00641		0.00521	0.00628		0.00526	0.00935		0.00495	0.00822		0.00569	0.00811		0.00558	0.0067		0.00441			
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	2-HEXANONE	NE	NE	ND	U	0.00423	ND	U	0.00487	ND	U	0.00521	ND	U	0.00526	ND	U	0.00495	ND	U	0.00569	ND	U	0.00558	ND	U	0.00441			
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0211	ND	UJ	0.0244	ND	UJ	0.0261	ND	UJ	0.0263	ND	UJ	0.0247	ND	UJ	0.0285	ND	UJ	0.0279	ND	UJ	0.0221			
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0211	ND	UJ	0.0244	ND	UJ	0.0261	ND	UJ	0.0263	ND	UJ	0.0247	ND	UJ	0.0285	ND	UJ	0.0279	ND	UJ	0.0221			
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00423	ND	U	0.00487	ND	U	0.00521	ND	U	0.00526	ND	U	0.00495	ND	U	0.00569	ND	U	0.00558	ND	U	0.00441			
	ACETONE	77.1	66,600	0.00924	J	0.0211	0.0125	J	0.0244	0.00634	J	0.0261	0.0102	J	0.0263	0.0333		0.0247	0.0097	J	0.0285	0.00748	J	0.0279	0.00874	J	0.0221			
	BENZENE	0.0345	15.4	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	0.00168	J	0.00228	ND	U	0.00223	ND	U	0.00177			
	BROMOBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	BROMOFORM	12.1	6,116	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	BROMOMETHANE	0.0385	16.5	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CHLOROBENZENE	0.984	376	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CHLOROETHANE	107	29,800	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CHLOROFORM	0.00918	5.86	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CHLOROMETHANE	0.879	275	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	ETHYLBENZENE	0.26	68.4	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	0.000339	J	0.00228	ND	U	0.00223	ND	U	0.00177			
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	M,P-XYLENES	NE	NE	ND	U	0.00338	ND	U	0.0039	ND	U	0.00417	ND	U	0.00421	0.00075	J	0.00396	0.00125	J	0.00455	ND	U	0.00447	ND	U	0.00353			
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00423	ND	U	0.00487	ND	U	0.00521	ND	U	0.00526	ND	U	0.00495	ND	U	0.00569	ND	U	0.00558	ND	U	0.00441			
	NAPHTHALENE	0.0713	43.0	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	N-BUTYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	N-PROPYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177			
	O-XYLENE	3.13	898	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	0.000289	J	0.00198	0.000408	J	0.00228	ND	U	0.00223	ND	U	0.00177			

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP119			DP120			DP120			DP120			DP120			DP120			DP120			DP121		
				SAMPLE NO	FFOR0666			FFOR0667			FFOR0668			FFOR0669			FFOR0670			FFOR0671			FFOR0672			FFOR0673		
				SAMPLE DATE	18-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
				SAMPLE PURPOSE	FD			REG			FD			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	STYRENE	27.7	7,280	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TOLUENE	25.3	5,270	0.000521	J	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	0.00126	J	0.00198	0.00223	J	0.00228	ND	U	0.00223	ND	U	0.00177
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	VINYL ACETATE	1.52	2,560	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00169	ND	U	0.00195	ND	U	0.00209	ND	U	0.0021	ND	U	0.00198	ND	U	0.00228	ND	U	0.00223	ND	U	0.00177
	XYLENES	3.13	814	ND	U	0.00508	ND	U	0.00585	ND	U	0.00626	ND	U	0.00631	0.00104	J	0.00594	0.00166	J	0.00683	ND	U	0.0067	ND	U	0.0053
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.69		0.65	6.93		0.65	9.37		0.65	7.86		0.66	4.13		0.62	7.55		0.7	5.22		0.66	7.42		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP121			DP121			DP121			DP121			DP121			DP122			DP122			DP122		
		SAMPLE NO		FFOR0674			FFOR0675			FFOR0676			FFOR0677			FFOR0678			FFOR0679			FFOR0680			FFOR0681		
		SAMPLE DATE		19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.88	J	4.39	16	J	4.31	7.57		4.39	1.79	J	4.36	1.7	J	4.35	8.68		4.31	12.4		4.4	ND	U	4.44
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.72	ND	U	4.86	ND	U	5.59	ND	U	4.02	ND	U	3.9	ND	U	6.11	ND	U	4.54	ND	U	4.62
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	UJ	0.355	ND	UJ	0.362	ND	UJ	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8	ND	U	1.79	ND	U	1.75	ND	U	1.8	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8	ND	U	1.79	ND	U	1.75	ND	U	1.8	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.711	ND	U	0.725	ND	U	0.719	ND	U	0.717	ND	U	0.7	ND	U	0.719	ND	U	0.732
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	UJ	1.78	ND	UJ	1.78	ND	UJ	1.81	ND	UJ	1.8	ND	UJ	1.79	ND	UJ	1.75	ND	UJ	1.8	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8	ND	U	1.79	ND	U	1.75	ND	U	1.8	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	UJ	0.356	ND	UJ	0.355	ND	UJ	0.362	ND	UJ	0.36	ND	UJ	0.359	ND	UJ	0.35	ND	UJ	0.36	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	UJ	1.78	ND	UJ	1.78	ND	UJ	1.81	ND	UJ	1.8	ND	UJ	1.79	ND	UJ	1.75	ND	UJ	1.8	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8	ND	U	1.79	ND	U	1.75	ND	U	1.8	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.355	ND	U	0.362	0.025	J	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BENZENAMINE	NE	NE	ND	UJ	0.356	ND	UJ	0.355	ND	UJ	0.362	ND	UJ	0.36	ND	UJ	0.359	ND	UJ	0.35	ND	UJ	0.36	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.355	ND	U	0.362	0.0588	J	0.36	ND	U	0.359	ND	U	0.35	0.0394	J	0.36	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	0.0135	J	0.356	ND	U	1.78	ND	U	0.362	ND	U	1.8	ND	U	0.359	ND	U	0.35	0.0352	J	0.36	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	1.78	ND	U	0.362	ND	U	1.8	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	0.0244	J	0.356	ND	U	1.78	0.0132	J	0.362	0.0821	J	1.8	ND	U	0.359	ND	U	0.35	0.0436	J	0.36	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	1.78	ND	U	0.362	ND	U	1.8	ND	U	0.359	ND	U	0.35	0.0218	J	0.36	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.356	0.0192	J	0.355	ND	U	0.362	0.0752	J	0.36	ND	U	0.359	ND	U	0.35	0.037	J	0.36	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	1.78	ND	U	0.362	ND	U	1.8	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	FLUORANTHENE	2,430	2,290	0.0266	J	0.356	0.0281	J	0.355	0.0126	J	0.362	0.13	J	0.36	ND	U	0.359	ND	U	0.35	0.059	J	0.36	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	1.78	ND	U	0.362	ND	U	1.8	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP121			DP121			DP121			DP121			DP121			DP122			DP122			DP122		
			SAMPLE NO	FFOR0674			FFOR0675			FFOR0676			FFOR0677			FFOR0678			FFOR0679			FFOR0680			FFOR0681		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8	ND	U	1.79	ND	U	1.75	ND	U	1.8	ND	U	1.83
	PHENANTHRENE	571	1,830	0.0198	J	0.356	0.0201	J	0.355	ND	U	0.362	0.0975	J	0.36	ND	U	0.359	ND	U	0.35	0.0275	J	0.36	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
	PYRENE	1,790	1,720	0.0216	J	0.356	ND	U	0.355	ND	U	0.362	0.0961	J	0.36	ND	U	0.359	ND	U	0.35	0.05	J	0.36	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.362	ND	U	0.36	ND	U	0.359	ND	U	0.35	ND	U	0.36	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	0.000575	J	0.002
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	0.000252	J	0.002
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	1-CHLOROHEXANE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	2-BUTANONE	25.5	37,100	0.00871		0.00551	0.0115		0.00601	0.00337	J	0.00549	0.00791		0.0048	0.00146	J	0.00451	ND	U	0.00467	0.00353	J	0.00463	0.00222	J	0.005
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	2-HEXANONE	NE	NE	ND	U	0.00551	ND	U	0.00601	ND	U	0.00549	ND	U	0.0048	ND	U	0.00451	ND	U	0.00467	ND	U	0.00463	ND	U	0.005
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0275	ND	UJ	0.0301	ND	UJ	0.0274	ND	UJ	0.024	ND	U	0.0226	ND	U	0.0233	ND	U	0.0231	**0.0132**	J	0.025
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0275	ND	UJ	0.0301	ND	UJ	0.0274	ND	UJ	0.024	ND	U	0.0226	ND	U	0.0233	ND	UJ	0.0231	ND	U	0.025
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00551	ND	U	0.00601	ND	U	0.00549	ND	U	0.0048	ND	U	0.00451	ND	U	0.00467	ND	U	0.00463	ND	U	0.005
	ACETONE	77.1	66,600	0.0151	J	0.0275	0.0168	J	0.0301	0.00721	J	0.0274	0.00827	J	0.024	0.0112	J	0.0226	0.0131	J	0.0233	0.00508	J	0.0231	0.0196	J	0.025
	BENZENE	0.0345	15.4	ND	U	0.0022	ND	U	0.0024	0.00116	J	0.0022	0.0018	J	0.00192	ND	U	0.00181	ND	U	0.00187	0.000631	J	0.00185	0.00158	J	0.002
	BROMOBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	BROMOFORM	12.1	6,116	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	BROMOMETHANE	0.0385	16.5	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CHLOROBENZENE	0.984	376	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CHLOROETHANE	107	29,800	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CHLOROFORM	0.00918	5.86	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CHLOROMETHANE	0.879	275	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	ETHYLBENZENE	0.26	68.4	ND	U	0.0022	ND	U	0.0024	0.000344	J	0.0022	0.000347	J	0.00192	0.000245	J	0.00181	ND	U	0.00187	ND	U	0.00185	0.000471	J	0.002
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	M,P-XYLENES	NE	NE	ND	U	0.00441	ND	U	0.00481	0.000966	J	0.00439	0.00131	J	0.00384	0.00041	J	0.00361	ND	U	0.00374	ND	U	0.0037	0.00124	J	0.004
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00551	ND	U	0.00601	ND	U	0.00549	ND	U	0.0048	ND	U	0.00451	ND	U	0.00467	ND	U	0.00463	ND	U	0.005
	NAPHTHALENE	0.0713	43.0	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	N-BUTYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	N-PROPYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	O-XYLENE	3.13	898	ND	U	0.0022	ND	U	0.0024	0.000351	J	0.0022	0.000327	J	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	0.000293	J	0.002

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP121			DP121			DP121			DP121			DP121			DP122			DP122			DP122		
			SAMPLE NO	FFOR0674			FFOR0675			FFOR0676			FFOR0677			FFOR0678			FFOR0679			FFOR0680			FFOR0681		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	STYRENE	27.7	7,280	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TOLUENE	25.3	5,270	ND	U	0.0022	0.000742	J	0.0024	0.00179	J	0.0022	0.0026		0.00192	0.000964	J	0.00181	0.000704	J	0.00187	ND	U	0.00185	0.00273		0.002
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	VINYL ACETATE	1.52	2,560	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0022	ND	U	0.0024	ND	U	0.0022	ND	U	0.00192	ND	U	0.00181	ND	U	0.00187	ND	U	0.00185	ND	U	0.002
	XYLENES	3.13	814	ND	U	0.00661	ND	U	0.00721	0.00132	J	0.00659	0.00163	J	0.00577	0.00041	J	0.00542	ND	U	0.0056	ND	U	0.00555	0.00154	J	0.006
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.79		0.66	3.52		0.65	6.79	J-	0.66	5.68		0.65	4.57		0.65	11		0.65	9.54		0.66	6.53		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP122			DP122			DP123			DP123			DP123			DP123			DP123			DP123		
			SAMPLE NO	FFOR0682			FFOR0683			FFOR0684			FFOR0685			FFOR0686			FFOR0687			FFOR0688			FFOR0689		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.35	2.35	J	4.21	7.61	J	8.59	9.23		4.4	2.54	J	4.36	ND	U	4.27	ND	U	4.43	ND	U	4.37
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.51	ND	U	4.33	ND	U	4.3	ND	U	5.7	ND	U	4.66	ND	U	5.55	ND	U	4.74	ND	U	5.55
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	UJ	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.706	ND	U	0.699	ND	U	0.709	ND	U	0.723	ND	U	0.719	ND	U	0.702	ND	U	0.731	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.35	0.0172	J	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.35	0.0515	J	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.35	0.067	J	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.35	0.0878	J	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	0.0114	J	0.35	0.032	J	0.354	0.0187	J	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.35	0.0401	J	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.35	0.067	J	0.354	0.0175	J	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.353	0.0157	J	0.35	0.0843	J	0.354	0.0184	J	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP122			DP122			DP123			DP123			DP123			DP123			DP123			DP123		
			SAMPLE NO	FFOR0682			FFOR0683			FFOR0684			FFOR0685			FFOR0686			FFOR0687			FFOR0688			FFOR0689		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.81	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.353	0.0126	J	0.35	0.0456	J	0.354	0.0144	J	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.353	0.0171	J	0.35	0.0622	J	0.354	0.0223	J	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.35	ND	U	0.354	ND	U	0.362	ND	U	0.36	ND	U	0.351	ND	U	0.365	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00117	J	0.00193	0.000203	J	0.00199	ND	U	0.00199	ND	U	0.00423	0.000554	J	0.00199	0.000241	J	0.00203	0.00065	J	0.00177	ND	U	0.0025
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000693	J	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	0.000355	J	0.00199	0.000156	J	0.00203	0.000403	J	0.00177	ND	U	0.0025
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	1-CHLOROHEXANE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	2-BUTANONE	25.5	37,100	0.00238	J	0.00482	0.00268	J	0.00497	0.00176	J	0.00497	0.00885	J	0.0106	0.00159	J	0.00496	0.000818	J	0.00507	0.00125	J	0.00444	0.00313	J	0.00625
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	2-HEXANONE	NE	NE	ND	U	0.00482	ND	U	0.00497	ND	U	0.00497	ND	U	0.0106	ND	U	0.00496	ND	U	0.00507	ND	U	0.00444	ND	U	0.00625
	2-PROPENAL	0.000146	0.404	ND	U	0.0241	ND	U	0.0248	ND	U	0.0249	ND	U	0.0529	ND	U	0.0248	ND	U	0.0254	ND	U	0.0222	ND	U	0.0312
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0241	ND	U	0.0248	ND	U	0.0249	ND	UJ	0.0529	ND	U	0.0248	ND	U	0.0254	ND	U	0.0222	ND	U	0.0312
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00482	ND	U	0.00497	ND	U	0.00497	ND	U	0.0106	ND	U	0.00496	ND	U	0.00507	ND	U	0.00444	ND	U	0.00625
	ACETONE	77.1	66,600	0.0126	J	0.0241	0.0169	J	0.0248	0.0192	J	0.0249	0.022	J	0.0529	0.0123	J	0.0248	0.00856	J	0.0254	0.00434	J	0.0222	0.0207	J	0.0312
	BENZENE	0.0345	15.4	0.00318		0.00193	ND	U	0.00199	ND	U	0.00199	0.000729	J	0.00423	0.00177	J	0.00199	0.000967	J	0.00203	0.0022		0.00177	0.00103	J	0.0025
	BROMOBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	BROMOFORM	12.1	6,116	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	BROMOMETHANE	0.0385	16.5	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CHLOROBENZENE	0.984	376	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CHLOROETHANE	107	29,800	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CHLOROFORM	0.00918	5.86	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	0.0013	J	0.0025
	CHLOROMETHANE	0.879	275	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	ETHYLBENZENE	0.26	68.4	0.000719	J	0.00193	0.000251	J	0.00199	ND	U	0.00199	ND	U	0.00423	0.000555	J	0.00199	ND	U	0.00203	0.000527	J	0.00177	0.000374	J	0.0025
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	M,P-XYLENES	NE	NE	0.00309	J	0.00385	0.000429	J	0.00397	ND	U	0.00398	ND	U	0.00846	0.00165	J	0.00397	0.00069	J	0.00406	0.00167	J	0.00355	0.000523	J	0.005
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00482	ND	U	0.00497	ND	U	0.00497	ND	U	0.0106	ND	U	0.00496	ND	U	0.00507	ND	U	0.00444	ND	U	0.00625
	NAPHTHALENE	0.0713	43.0	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	N-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	N-PROPYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	O-XYLENE	3.13	898	0.000703	J	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	0.000367	J	0.00199	0.00017	J	0.00203	0.00042	J	0.00177	ND	U	0.0025

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP122			DP122			DP123			DP123			DP123			DP123			DP123			DP123		
		SAMPLE NO		FFOR0682			FFOR0683			FFOR0684			FFOR0685			FFOR0686			FFOR0687			FFOR0688			FFOR0689		
		SAMPLE DATE		19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	STYRENE	27.7	7,280	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TOLUENE	25.3	5,270	0.00447		0.00193	0.00113	J	0.00199	ND	U	0.00199	ND	U	0.00423	0.00279		0.00199	0.00132	J	0.00203	0.00286		0.00177	0.0012	J	0.0025
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	VINYL ACETATE	1.52	2,560	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00193	ND	U	0.00199	ND	U	0.00199	ND	U	0.00423	ND	U	0.00199	ND	U	0.00203	ND	U	0.00177	ND	U	0.0025
	XYLENES	3.13	814	0.00378	J	0.00578	0.000429	J	0.00596	ND	U	0.00597	ND	U	0.0127	0.00201	J	0.00596	0.00086	J	0.00609	0.00209	J	0.00532	ND	U	0.00749
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.8		0.65	5.07		0.64	7.88		0.64	4.76		0.66	4.78		0.65	4.98		0.64	6.99		0.66	4.21		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP124			DP124			DP124			DP124			DP124			DP125			DP125			DP125		
			SAMPLE NO	FFOR0690			FFOR0691			FFOR0692			FFOR0693			FFOR0694			FFOR0695			FFOR0696			FFOR0697		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.3		4.23	3.8	J	4.26	18.2		8.35	1.57	J	4.41	ND	U	4.38	6.1		4.22	12.4		8.59	3.54	J	4.3
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.69	ND	U	6.31	ND	U	6.42	ND	U	3.88	ND	U	4.53	ND	U	5.87	ND	U	5.26	ND	U	5.08
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0266	J	0.354	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.708	ND	U	0.715	ND	U	0.682	ND	U	0.727	ND	U	0.725	ND	U	0.696	ND	U	0.709	ND	U	0.71
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0794	J	0.354	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	ANTHRACENE	5,410	17,200	0.0166	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	0.0196	J	0.348	0.111	J	0.354	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	0.065	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	0.0633	J	0.348	0.258	J	0.354	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	0.0595	J	0.354	0.0164	J	0.357	0.0178	J	0.341	ND	U	0.364	ND	U	0.363	0.057	J	0.348	**0.263**	J	0.354	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0704	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	0.0692	J	0.348	0.29	J	0.354	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	0.0655	J	0.354	0.0173	J	0.357	0.0182	J	0.341	ND	U	0.364	ND	U	0.363	0.043	J	0.348	0.133	J	0.354	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0355	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	0.0298	J	0.348	0.151	J	0.354	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0607	J	0.354	ND	U	0.355
	CHRYSENE	160	147	0.077	J	0.354	0.0188	J	0.357	0.0256	J	0.341	ND	U	0.364	ND	U	0.363	0.06	J	0.348	0.282	J	0.354	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.0138	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0377	J	0.354	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0295	J	0.354	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	FLUORANTHENE	2,430	2,290	0.119	J	0.354	0.0343	J	0.357	0.0377	J	0.341	ND	U	0.364	ND	U	0.363	0.119	J	0.348	0.566		0.354	0.0135	J	0.355
	FLUORENE	406	2,290	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.045	J	0.354	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0487	J	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	0.0394	J	0.348	0.13	J	0.354	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	0.0325	J	0.354	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP124			DP124			DP124			DP124			DP124			DP125			DP125			DP125		
		SAMPLE NO		FFOR0690			FFOR0691			FFOR0692			FFOR0693			FFOR0694			FFOR0695			FFOR0696			FFOR0697		
		SAMPLE DATE		19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.79	ND	U	1.71	ND	U	1.82	ND	U	1.81	ND	U	1.74	ND	U	1.77	ND	U	1.77
	PHENANTHRENE	571	1,830	0.078	J	0.354	0.0213	J	0.357	0.0303	J	0.341	ND	U	0.364	ND	U	0.363	0.0819	J	0.348	0.524		0.354	0.0115	J	0.355
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
	PYRENE	1,790	1,720	0.144	J	0.354	0.0342	J	0.357	0.0377	J	0.341	ND	U	0.364	ND	U	0.363	0.114	J	0.348	0.474		0.354	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.357	ND	U	0.341	ND	U	0.364	ND	U	0.363	ND	U	0.348	ND	U	0.354	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	1-CHLOROHEXANE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	2-BUTANONE	25.5	37,100	ND	U	0.0058	ND	U	0.00515	ND	U	0.00442	ND	U	0.00482	ND	U	0.0044	ND	U	0.00669	ND	U	0.00464	ND	U	0.0045
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	2-HEXANONE	NE	NE	ND	U	0.0058	ND	U	0.00515	ND	U	0.00442	ND	U	0.00482	ND	U	0.0044	ND	U	0.00669	ND	U	0.00464	ND	U	0.0045
	2-PROPENAL	0.000146	0.404	ND	UJ	0.029	ND	U	0.0257	ND	UJ	0.0221	ND	UJ	0.0241	ND	UJ	0.022	ND	UJ	0.0335	ND	UJ	0.0232	ND	UJ	0.0225
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.029	ND	U	0.0257	ND	UJ	0.0221	ND	UJ	0.0241	ND	UJ	0.022	ND	UJ	0.0335	ND	UJ	0.0232	ND	UJ	0.0225
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0058	ND	U	0.00515	ND	U	0.00442	ND	U	0.00482	ND	U	0.0044	ND	U	0.00669	ND	U	0.00464	ND	U	0.0045
	ACETONE	77.1	66,600	0.0162	J	0.029	ND	U	0.0257	0.0192	J	0.0221	0.0123	J	0.0241	0.00842	J	0.022	0.0152	J	0.0335	0.0148	J	0.0232	0.00104	J	0.0225
	BENZENE	0.0345	15.4	0.000933	J	0.00232	0.000242	J	0.00206	0.000902	J	0.00177	0.00167	J	0.00193	0.000469	J	0.00176	ND	U	0.00268	ND	U	0.00185	0.000572	J	0.0018
	BROMOBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	BROMOFORM	12.1	6,116	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	BROMOMETHANE	0.0385	16.5	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CHLOROBENZENE	0.984	376	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CHLOROETHANE	107	29,800	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CHLOROFORM	0.00918	5.86	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CHLOROMETHANE	0.879	275	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	ETHYLBENZENE	0.26	68.4	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	M,P-XYLENES	NE	NE	ND	U	0.00464	ND	U	0.00412	0.000512	J	0.00353	0.00109	J	0.00386	ND	U	0.00352	ND	U	0.00535	ND	U	0.00371	ND	U	0.0036
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0058	ND	U	0.00515	ND	U	0.00442	ND	U	0.00482	ND	U	0.0044	ND	U	0.00669	ND	U	0.00464	ND	U	0.0045
	NAPHTHALENE	0.0713	43.0	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	N-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	N-PROPYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	O-XYLENE	3.13	898	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	0.000313	J	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP124			DP124			DP124			DP124			DP124			DP125			DP125			DP125		
		SAMPLE NO		FFOR0690			FFOR0691			FFOR0692			FFOR0693			FFOR0694			FFOR0695			FFOR0696			FFOR0697		
		SAMPLE DATE		19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	STYRENE	27.7	7,280	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TOLUENE	25.3	5,270	ND	U	0.00232	ND	U	0.00206	0.00165	J	0.00177	0.00196		0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	VINYL ACETATE	1.52	2,560	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00232	ND	U	0.00206	ND	U	0.00177	ND	U	0.00193	ND	U	0.00176	ND	U	0.00268	ND	U	0.00185	ND	U	0.0018
	XYLENES	3.13	814	ND	U	0.00696	ND	U	0.00618	0.000512	J	0.0053	0.00141	J	0.00579	ND	U	0.00528	ND	U	0.00803	ND	U	0.00556	ND	U	0.0054
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.96		0.65	6.13		0.65	5.36		0.63	6.4		0.66	4.6		0.66	6.45	J	0.63	8.45		0.64	7.34		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP125			DP125			DP125			DP126			DP126			DP126			DP126			DP126		
			SAMPLE NO	FFOR0698			FFOR0699			FFOR0700			FFOR0701			FFOR0702			FFOR0703			FFOR0704			FFOR0705		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.95	J	4.33	ND	U	4.26	ND	U	4.28	7.53	J	8.78	7.57		4.24	ND	U	4.42	ND	U	4.34	ND	U	4.24
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.27	ND	U	4.27	ND	U	3.96	ND	U	4.41	ND	U	4.45	ND	U	4.36	ND	U	4.12	ND	U	6.05
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	UJ	0.353	ND	UJ	0.347	ND	UJ	0.361	ND	UJ	0.35	ND	UJ	0.365	ND	UJ	0.358	ND	UJ	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.706	ND	U	0.695	ND	U	0.722	ND	U	0.699	ND	U	0.729	ND	U	0.717	ND	U	0.704
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.353	ND	U	0.347	0.0282	J	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	FLUORANTHENE	2,430	2,290	ND	U	0.356	ND	U	0.353	ND	U	0.347	0.0407	J	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	1.8	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352

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			LOCATION CODE	DP125			DP125			DP125			DP126			DP126			DP126			DP126			DP126		
			SAMPLE NO	FFOR0698			FFOR0699			FFOR0700			FFOR0701			FFOR0702			FFOR0703			FFOR0704			FFOR0705		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.8	ND	U	1.75	ND	U	1.82	ND	U	1.79	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.356	ND	U	0.353	ND	U	0.347	0.019	J	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.356	ND	U	0.353	ND	U	0.347	0.0283	J	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.353	ND	U	0.347	ND	U	0.361	ND	U	0.35	ND	U	0.365	ND	U	0.358	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	1-CHLOROHEXANE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	2-BUTANONE	25.5	37,100	0.00281	J	0.00487	ND	U	0.0267	ND	U	0.00438	ND	U	0.00456	ND	U	0.0047	ND	U	0.00515	0.00248	J	0.00425	ND	U	0.00407
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	2-HEXANONE	NE	NE	ND	U	0.00487	ND	U	0.0267	ND	U	0.00438	ND	U	0.00456	ND	U	0.0047	ND	U	0.00515	ND	U	0.00425	ND	U	0.00407
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0244	ND	U	0.134	ND	UJ	0.0219	ND	UJ	0.0228	ND	UJ	0.0235	ND	UJ	0.0258	ND	UJ	0.0213	ND	UJ	0.0204
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0244	ND	U	0.134	ND	UJ	0.0219	ND	UJ	0.0228	ND	UJ	0.0235	ND	UJ	0.0258	ND	UJ	0.0213	ND	UJ	0.0204
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00487	ND	U	0.0267	ND	U	0.00438	ND	U	0.00456	ND	U	0.0047	ND	U	0.00515	ND	U	0.00425	ND	U	0.00407
	ACETONE	77.1	66,600	0.00327	J	0.0244	ND	U	0.134	0.00517	J	0.0219	0.00948	J	0.0228	0.00934	J	0.0235	0.0029	J	0.0258	0.00545	J	0.0213	0.00458	J	0.0204
	BENZENE	0.0345	15.4	0.0015	J	0.00195	0.00638	J	0.0107	ND	U	0.00175	ND	U	0.00183	0.000262	J	0.00188	0.00133	J	0.00206	0.00089	J	0.0017	ND	U	0.00163
	BROMOBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	BROMOFORM	12.1	6,116	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	BROMOMETHANE	0.0385	16.5	ND	U	0.00195	ND	UJ	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CHLOROBENZENE	0.984	376	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CHLOROETHANE	107	29,800	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CHLOROFORM	0.00918	5.86	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CHLOROMETHANE	0.879	275	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	ETHYLBENZENE	0.26	68.4	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	M,P-XYLENES	NE	NE	0.000945	J	0.0039	ND	U	0.0214	ND	U	0.0035	ND	U	0.00365	ND	U	0.00376	0.00113	J	0.00412	0.000721	J	0.0034	ND	U	0.00326
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00487	ND	U	0.0267	ND	U	0.00438	ND	U	0.00456	ND	U	0.0047	ND	U	0.00515	ND	U	0.00425	ND	U	0.00407
	NAPHTHALENE	0.0713	43.0	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	N-BUTYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	N-PROPYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	O-XYLENE	3.13	898	0.000215	J	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	0.000295	J	0.00206	ND	U	0.0017	ND	U	0.00163

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP125			DP125			DP125			DP126			DP126			DP126			DP126			DP126		
		SAMPLE NO		FFOR0698			FFOR0699			FFOR0700			FFOR0701			FFOR0702			FFOR0703			FFOR0704			FFOR0705		
		SAMPLE DATE		19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	STYRENE	27.7	7,280	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TOLUENE	25.3	5,270	0.00192	J	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	0.00197	J	0.00206	0.00131	J	0.0017	ND	U	0.00163
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	VINYL ACETATE	1.52	2,560	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00195	ND	U	0.0107	ND	U	0.00175	ND	U	0.00183	ND	U	0.00188	ND	U	0.00206	ND	U	0.0017	ND	U	0.00163
	XYLENES	3.13	814	0.00116	J	0.00585	ND	U	0.0321	ND	U	0.00525	ND	U	0.00548	ND	U	0.00564	0.00141	J	0.00618	0.000721	J	0.00511	ND	U	0.00489
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.94		0.66	3.86		0.64	4.15		0.64	6.86		0.66	4.59		0.63	8.08	J-	0.66	6.29		0.65	4.48		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP127			DP127			DP127			DP127			DP127			DP127			DP128			DP128		
			SAMPLE NO	FFOR0706			FFOR0707			FFOR0708			FFOR0709			FFOR0710			FFOR0711			FFOR0712			FFOR0713		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	11.8		8.6	11.8		8.52	ND	U	4.38	1.77	J	4.07	1.42	J	4.34	ND	U	4.38	6.05		4.25	5.86		4.42
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.44	ND	U	4.68	ND	U	5	ND	U	4.42	ND	U	4.33	ND	U	4.08	1.43	J	6.94	ND	U	5.25
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.358	ND	UJ	0.348	ND	U	0.359	ND	UJ	0.341	ND	UJ	0.359	ND	UJ	0.36	ND	U	0.353	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.696	ND	U	0.717	ND	U	0.682	ND	U	0.718	ND	U	0.72	ND	U	0.705	ND	U	0.723
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	ACENAPHTHENE	338	3,440	0.0197	J	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	ANTHRACENE	5,410	17,200	0.0326	J	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	0.0419	J	0.353	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	0.0768	J	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	0.0342	J	0.359	ND	U	0.36	0.124	J	0.353	0.0337	J	0.361
	BENZO(A)PYRENE	0.52	0.148	0.0735	J	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	0.0337	J	0.359	ND	U	0.36	0.126	J	0.353	0.0334	J	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	0.0362	J	0.359	ND	U	0.36	0.118	J	0.353	0.0421	J	0.361
	BENZO(GHI)PERYLENE	NE	NE	0.0604	J	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	0.0436	J	0.359	ND	U	0.36	0.13	J	0.353	0.0321	J	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	0.0172	J	0.359	ND	U	0.36	0.107	J	0.353	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	0.0252	J	0.353	ND	U	0.361
	CHRYSENE	160	147	0.0785	J	0.358	0.022	J	0.348	ND	U	0.359	ND	U	0.341	0.0344	J	0.359	ND	U	0.36	0.155	J	0.353	0.0405	J	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	0.0141	J	0.359	ND	U	0.36	0.0236	J	0.353	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	0.0899	J	0.353	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	FLUORANTHENE	2,430	2,290	0.198	J	0.358	0.0318	J	0.348	ND	U	0.359	ND	U	0.341	0.0618	J	0.359	ND	U	0.36	0.241	J	0.353	0.0641	J	0.361
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	1.79	ND	U	1.74	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	0.109	J	0.353	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP127			DP127			DP127			DP127			DP127			DP127			DP128			DP128		
			SAMPLE NO	FFOR0706			FFOR0707			FFOR0708			FFOR0709			FFOR0710			FFOR0711			FFOR0712			FFOR0713		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.74	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.8	ND	U	1.76	ND	U	1.81
	PHENANTHRENE	571	1,830	0.139	J	0.358	0.0165	J	0.348	ND	U	0.359	ND	U	0.341	0.0394	J	0.359	ND	U	0.36	0.139	J	0.353	0.0341	J	0.361
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
	PYRENE	1,790	1,720	0.126	J	0.358	0.0191	J	0.348	ND	U	0.359	ND	U	0.341	0.0559	J	0.359	ND	U	0.36	0.169	J	0.353	0.0481	J	0.361
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.348	ND	U	0.359	ND	U	0.341	ND	U	0.359	ND	U	0.36	ND	U	0.353	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	0.000813	J	0.00178	0.000778	J	0.00231	0.000579	J	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	0.000484	J	0.00178	0.000411	J	0.00231	0.000336	J	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	1-CHLOROHEXANE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	2-BUTANONE	25.5	37,100	ND	U	0.00418	ND	U	0.00424	0.00335	J	0.00444	0.00375	J	0.00577	0.00336	J	0.00419	0.000677	J	0.0038	0.00294	J	0.0054	0.00726	J	0.00915
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	2-HEXANONE	NE	NE	ND	U	0.00418	ND	U	0.00424	ND	U	0.00444	ND	U	0.00577	ND	U	0.00419	ND	U	0.0038	ND	U	0.0054	ND	U	0.00915
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0209	ND	UJ	0.0212	ND	U	0.0222	ND	U	0.0288	ND	U	0.0209	ND	U	0.019	ND	UJ	0.027	ND	UJ	0.0458
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0209	ND	UJ	0.0212	ND	U	0.0222	ND	U	0.0288	ND	U	0.0209	ND	U	0.019	ND	UJ	0.027	ND	UJ	0.0458
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00418	ND	U	0.00424	ND	U	0.00444	ND	U	0.00577	ND	U	0.00419	ND	U	0.0038	ND	U	0.0054	ND	U	0.00915
	ACETONE	77.1	66,600	0.00544	J	0.0209	0.00599	J	0.0212	0.0127	J	0.0222	0.033		0.0288	0.0164	J	0.0209	0.00357	J	0.019	0.00908	J	0.027	0.039	J	0.0458
	BENZENE	0.0345	15.4	ND	U	0.00167	ND	U	0.0017	0.00268		0.00178	0.00255		0.00231	0.00192		0.00167	ND	U	0.00152	ND	U	0.00216	0.000807	J	0.00366
	BROMOBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	BROMOFORM	12.1	6,116	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	BROMOMETHANE	0.0385	16.5	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CHLOROBENZENE	0.984	376	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CHLOROETHANE	107	29,800	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CHLOROFORM	0.00918	5.86	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CHLOROMETHANE	0.879	275	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	ETHYLBENZENE	0.26	68.4	ND	U	0.00167	ND	U	0.0017	0.000698	J	0.00178	0.000571	J	0.00231	0.000584	J	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	M,P-XYLENES	NE	NE	ND	U	0.00335	ND	U	0.00339	0.00232	J	0.00355	0.00222	J	0.00461	0.00163	J	0.00335	ND	U	0.00304	ND	U	0.00432	ND	U	0.00732
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00418	ND	U	0.00424	ND	U	0.00444	ND	U	0.00577	ND	U	0.00419	ND	U	0.0038	ND	U	0.0054	ND	U	0.00915
	NAPHTHALENE	0.0713	43.0	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	N-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	N-PROPYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	O-XYLENE	3.13	898	ND	U	0.00167	ND	U	0.0017	0.000633	J	0.00178	0.000661	J	0.00231	0.000394	J	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366

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			LOCATION CODE	DP127			DP127			DP127			DP127			DP127			DP127			DP128			DP128		
			SAMPLE NO	FFOR0706			FFOR0707			FFOR0708			FFOR0709			FFOR0710			FFOR0711			FFOR0712			FFOR0713		
			SAMPLE DATE	19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			19-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	STYRENE	27.7	7,280	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TOLUENE	25.3	5,270	ND	U	0.00167	0.000611	J	0.0017	0.00372		0.00178	0.00363		0.00231	0.00285		0.00167	ND	U	0.00152	ND	U	0.00216	0.00146	J	0.00366
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	VINYL ACETATE	1.52	2,560	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	UJ	0.00216	ND	UJ	0.00366
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00167	ND	U	0.0017	ND	U	0.00178	ND	U	0.00231	ND	U	0.00167	ND	U	0.00152	ND	U	0.00216	ND	U	0.00366
	XYLENES	3.13	814	ND	U	0.00502	ND	U	0.00509	0.00295	J	0.00533	0.00288	J	0.00692	0.00202	J	0.00502	ND	U	0.00457	ND	U	0.00648	ND	U	0.011
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.86		0.65	6.12		0.64	5.83		0.66	5.77		0.62	6.15		0.65	4.74		0.66	6.55		0.64	7.88		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP128			DP128			DP128			DP129			DP129			DP129			DP129			DP129		
			SAMPLE NO	FFOR0714			FFOR0715			FFOR0716			FFOR0717			FFOR0718			FFOR0719			FFOR0720			FFOR0721		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.18	2.09	J	4.32	ND	U	4.35	7.32	J	8.72	12.3		4.26	ND	U	4.48	ND	U	4.52	ND	U	4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.39	ND	U	6.02	ND	U	9.35	ND	U	5.8	ND	U	4.97	ND	U	4.72	0.949	J	5.98	ND	U	6.79
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.69	ND	U	0.715	ND	U	0.718	ND	U	0.713	ND	U	0.705	ND	U	0.732	ND	U	0.739	ND	U	0.706
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	0.0138	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	0.0409	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	0.114	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	0.0962	J	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	ND	U	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	0.0896	J	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	ND	U	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	0.0287	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	CHRYSENE	160	147	ND	U	0.345	ND	U	0.357	ND	U	0.359	0.0171	J	0.356	0.104	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	ND	U	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	0.345	ND	U	0.357	0.0186	J	0.359	0.0264	J	0.356	0.216	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	FLUORENE	406	2,290	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	3.56	ND	U	1.76	ND	U	0.366	ND	U	0.37	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP128			DP128			DP128			DP129			DP129			DP129			DP129			DP129		
		SAMPLE NO		FFOR0714			FFOR0715			FFOR0716			FFOR0717			FFOR0718			FFOR0719			FFOR0720			FFOR0721		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.76	ND	U	1.83	ND	U	1.85	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.345	ND	U	0.357	0.0151	J	0.359	0.0138	J	0.356	0.115	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	0.345	ND	U	0.357	ND	U	0.359	0.0204	J	0.356	0.151	J	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
	PYRIDINE	NE	NE	ND	U	0.345	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.352	ND	U	0.366	ND	U	0.37	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	0.00483		0.0037	ND	U	0.00228	ND	U	0.00266
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	0.00439		0.0037	ND	U	0.00228	ND	U	0.00266
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	1-CHLOROHEXANE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	2-BUTANONE	25.5	37,100	0.00604	J	0.00734	0.011		0.00569	0.00474	J	0.00578	0.00438	J	0.00555	0.00206	J	0.00433	0.00944		0.00924	0.00413	J	0.0057	0.00655	J	0.00664
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	2-HEXANONE	NE	NE	ND	U	0.00734	ND	U	0.00569	ND	U	0.00578	ND	U	0.00555	ND	U	0.00433	ND	U	0.00924	ND	U	0.0057	ND	U	0.00664
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0367	ND	UJ	0.0284	ND	UJ	0.0289	ND	UJ	0.0278	ND	UJ	0.0217	ND	UJ	0.0462	ND	UJ	0.0285	ND	UJ	0.0332
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0367	ND	UJ	0.0284	ND	UJ	0.0289	ND	UJ	0.0278	ND	UJ	0.0217	ND	UJ	0.0462	ND	UJ	0.0285	ND	UJ	0.0332
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00734	ND	U	0.00569	ND	U	0.00578	ND	U	0.00555	ND	U	0.00433	ND	U	0.00924	ND	U	0.0057	ND	U	0.00664
	ACETONE	77.1	66,600	0.0223	J	0.0367	0.0343		0.0284	0.0121	J	0.0289	0.0184	J	0.0278	0.0112	J	0.0217	0.038	J	0.0462	0.0204	J	0.0285	0.0191	J	0.0332
	BENZENE	0.0345	15.4	0.00182	J	0.00294	0.000363	J	0.00228	0.00376		0.00231	0.000656	J	0.00222	0.000423	J	0.00173	0.00497		0.0037	0.00284		0.00228	0.000586	J	0.00266
	BROMOBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	BROMOFORM	12.1	6,116	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	BROMOMETHANE	0.0385	16.5	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CHLOROBENZENE	0.984	376	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CHLOROETHANE	107	29,800	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CHLOROFORM	0.00918	5.86	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CHLOROMETHANE	0.879	275	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	ETHYLBENZENE	0.26	68.4	0.000372	J	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	0.000785	J	0.0037	0.000468	J	0.00228	ND	U	0.00266
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	M,P-XYLENES	NE	NE	0.00148	J	0.00587	ND	U	0.00455	ND	U	0.00462	ND	U	0.00444	ND	U	0.00347	0.00397	J	0.00739	0.0023	J	0.00456	ND	U	0.00531
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00734	ND	U	0.00569	ND	U	0.00578	ND	U	0.00555	ND	U	0.00433	ND	U	0.00924	ND	U	0.0057	ND	U	0.00664
	NAPHTHALENE	0.0713	43.0	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	N-BUTYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	N-PROPYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	O-XYLENE	3.13	898	0.000561	J	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	0.00124	J	0.0037	0.000607	J	0.00228	ND	U	0.00266

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP128			DP128			DP128			DP129			DP129			DP129			DP129			DP129		
		SAMPLE NO		FFOR0714			FFOR0715			FFOR0716			FFOR0717			FFOR0718			FFOR0719			FFOR0720			FFOR0721		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	STYRENE	27.7	7,280	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TOLUENE	25.3	5,270	0.00257	J	0.00294	0.00075	J	0.00228	0.00118	J	0.00231	ND	U	0.00222	ND	U	0.00173	0.00636		0.0037	0.00407		0.00228	0.000997	J	0.00266
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00294	ND	UJ	0.00228	ND	UJ	0.00231	ND	UJ	0.00222	ND	UJ	0.00173	ND	UJ	0.0037	ND	UJ	0.00228	ND	UJ	0.00266
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00294	ND	U	0.00228	ND	U	0.00231	ND	U	0.00222	ND	U	0.00173	ND	U	0.0037	ND	U	0.00228	ND	U	0.00266
	XYLENES	3.13	814	0.00205	J	0.00881	ND	U	0.00683	ND	U	0.00693	ND	U	0.00666	ND	U	0.0052	0.00522	J	0.0111	0.00291	J	0.00684	ND	U	0.00797
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.48		0.63	5.92		0.65	4.73		0.65	7.5		0.65	5.08		0.64	8.22	J-	0.67	7.26		0.68	4.31		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP129			DP130			DP130			DP130			DP130			DP130			DP130			DP131		
			SAMPLE NO	FFOR0722			FFOR0723			FFOR0724			FFOR0725			FFOR0726			FFOR0727			FFOR0728			FFOR0729		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	FD			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.35	10.4	J	8.61	26.6	J	21.4	23.2		8.67	5.66		4.33	1.65	J	4.26	ND	U	4.25	6.92	J	8.9
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.26	ND	U	6.69	ND	U	5.17	ND	U	10.2	ND	U	8.18	ND	U	5.16	ND	U	5.75	ND	U	6.03
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	UJ	0.352	ND	UJ	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.707	ND	U	0.699	ND	U	7.06	ND	U	7.04	ND	U	7.15	ND	U	7.12	ND	U	0.692	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.353	0.0167	J	0.349	0.067	J	0.353	0.0339	J	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	0.0624	J	0.349	ND	U	3.53	ND	U	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	3.49	**0.193**	J	3.53	**0.162**	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	0.0228	J	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	3.49	ND	U	3.53	0.216	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	3.49	0.223	J	3.53	0.0928	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	0.0304	J	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	3.49	ND	U	3.53	0.0882	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.349	ND	U	3.53	ND	U	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	3.53	ND	U	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.349	0.044	J	0.353	0.027	J	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.353	0.0737	J	0.349	0.211	J	3.53	0.203	J	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	0.0251	J	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	3.49	ND	U	3.53	0.0194	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	3.53	ND	U	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.353	0.127	J	0.349	0.513		0.353	0.425		0.352	0.0433	J	0.358	0.0104	J	0.356	ND	U	0.346	0.0389	J	0.366
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	3.49	ND	U	3.53	0.0554	J	0.352	ND	U	3.58	ND	U	3.56	ND	U	0.346	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP129			DP130			DP130			DP130			DP130			DP130			DP130			DP131		
			SAMPLE NO	FFOR0722			FFOR0723			FFOR0724			FFOR0725			FFOR0726			FFOR0727			FFOR0728			FFOR0729		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	FD			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.75	ND	U	1.76	ND	U	1.76	ND	U	1.79	ND	U	1.78	ND	U	1.73	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.353	0.0383	J	0.349	0.103	J	0.353	0.0815	J	0.352	0.0129	J	0.358	ND	U	0.356	ND	U	0.346	0.0189	J	0.366
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.353	0.0822	J	0.349	0.229	J	3.53	0.243	J	3.52	ND	U	3.58	ND	U	3.56	ND	U	0.346	0.0287	J	0.366
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.353	ND	U	0.352	ND	U	0.358	ND	U	0.356	ND	U	0.346	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	1-CHLOROHEXANE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	2-BUTANONE	25.5	37,100	0.00905		0.00796	0.00898	J	0.00922	0.0123	J	0.0157	0.0143		0.0109	0.00877		0.0055	0.0087		0.00526	0.0119		0.00595	0.0165		0.0112
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	2-HEXANONE	NE	NE	ND	U	0.00796	ND	U	0.00922	ND	U	0.0157	ND	U	0.0109	ND	U	0.0055	ND	U	0.00526	ND	U	0.00595	ND	U	0.0112
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0398	ND	UJ	0.0461	ND	U	0.0786	ND	UJ	0.0544	ND	UJ	0.0275	ND	UJ	0.0263	ND	UJ	0.0297	ND	UJ	0.0558
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0398	ND	UJ	0.0461	ND	UJ	0.0786	ND	UJ	0.0544	ND	UJ	0.0275	ND	UJ	0.0263	ND	UJ	0.0297	ND	UJ	0.0558
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00796	ND	U	0.00922	ND	U	0.0157	ND	U	0.0109	ND	U	0.0055	ND	U	0.00526	ND	U	0.00595	ND	U	0.0112
	ACETONE	77.1	66,600	0.0341	J	0.0398	0.0211	J	0.0461	0.0902		0.0786	0.0363	J	0.0544	0.0206	J	0.0275	0.0257	J	0.0263	0.0243	J	0.0297	0.0415	J	0.0558
	BENZENE	0.0345	15.4	0.000671	J	0.00318	0.000494	J	0.00369	0.00213	J	0.00629	0.000719	J	0.00435	0.00119	J	0.0022	0.0031		0.0021	0.000619	J	0.00238	0.00163	J	0.00447
	BROMOBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	BROMOFORM	12.1	6,116	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	BROMOMETHANE	0.0385	16.5	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CHLOROBENZENE	0.984	376	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CHLOROETHANE	107	29,800	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CHLOROFORM	0.00918	5.86	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CHLOROMETHANE	0.879	275	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	ETHYLBENZENE	0.26	68.4	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	M,P-XYLENES	NE	NE	ND	U	0.00637	ND	U	0.00737	ND	U	0.0126	ND	U	0.00871	0.001	J	0.0044	ND	U	0.00421	ND	U	0.00476	ND	U	0.00893
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00796	ND	U	0.00922	ND	U	0.0157	ND	U	0.0109	ND	U	0.0055	ND	U	0.00526	ND	U	0.00595	ND	U	0.0112
	NAPHTHALENE	0.0713	43.0	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	N-BUTYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	N-PROPYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	O-XYLENE	3.13	898	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP129			DP130			DP130			DP130			DP130			DP130			DP130			DP130			DP131		
		SAMPLE NO		FFOR0722			FFOR0723			FFOR0724			FFOR0725			FFOR0726			FFOR0727			FFOR0728			FFOR0729		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
		SAMPLE PURPOSE		FD			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	STYRENE	27.7	7,280	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TOLUENE	25.3	5,270	0.00126	J	0.00318	ND	U	0.00369	ND	U	0.00629	0.00229	J	0.00435	0.00223		0.0022	ND	U	0.0021	0.00128	J	0.00238	0.00248	J	0.00447
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00318	ND	UJ	0.00369	ND	U	0.00629	ND	UJ	0.00435	ND	UJ	0.0022	ND	UJ	0.0021	ND	UJ	0.00238	ND	UJ	0.00447
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00318	ND	U	0.00369	ND	U	0.00629	ND	U	0.00435	ND	U	0.0022	ND	U	0.0021	ND	U	0.00238	ND	U	0.00447
	XYLENES	3.13	814	ND	U	0.00955	ND	U	0.0111	ND	U	0.0189	ND	U	0.0131	0.001	J	0.00659	ND	U	0.00631	ND	U	0.00714	ND	U	0.0134
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.14		0.65	7.87		0.64	6.8		0.64	6.15		0.65	5.88		0.65	5.7		0.65	3.62		0.64	8.87		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP131			DP131			DP131			DP131			DP131			DP132			DP132			DP132		
			SAMPLE NO	FFOR0730			FFOR0731			FFOR0732			FFOR0733			FFOR0734			FFOR0735			FFOR0736			FFOR0737		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	10.9		4.32	12.8		4.23	2.65	J	4.26	2.94	J	4.38	2.48	J	4.23	12.1		4.19	1.67	J	4.42	ND	U	4.34
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.71	ND	U	12	ND	U	8.92	ND	U	5.55	ND	U	6.11	ND	U	5.78	ND	U	5.29	ND	U	5.15
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	UJ	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.71	ND	U	0.702	ND	U	0.711	ND	U	0.698	ND	U	0.696	ND	U	0.717	ND	U	0.725
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	UJ	0.348	ND	UJ	0.359	ND	UJ	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.038	J	0.348	ND	U	0.359	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.0472	J	0.348	ND	U	0.359	ND	U	0.363
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.153	J	0.348	ND	U	0.359	ND	U	0.363
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.132	J	0.348	ND	U	0.359	ND	U	0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.171	J	0.348	ND	U	0.359	ND	U	0.363
	BENZO(GHI)PERYLENE	NE	NE	0.0145	J	0.356	0.0115	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.114	J	0.348	ND	U	0.359	ND	U	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.0942	J	0.348	ND	U	0.359	ND	U	0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	0.0226	J	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.0214	J	0.348	ND	U	0.359	ND	U	0.363
	CHRYSENE	160	147	0.0169	J	0.356	0.0188	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.191	J	0.348	ND	U	0.359	ND	U	0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	0.0202	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	FLUORANTHENE	2,430	2,290	0.0236	J	0.356	0.0237	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.334	J	0.348	ND	U	0.359	ND	U	0.363
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.022	J	0.348	ND	U	0.359	ND	U	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.0929	J	0.348	ND	U	0.359	ND	U	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP131			DP131			DP131			DP131			DP131			DP132			DP132			DP132		
			SAMPLE NO	FFOR0730			FFOR0731			FFOR0732			FFOR0733			FFOR0734			FFOR0735			FFOR0736			FFOR0737		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.78	ND	U	1.76	ND	U	1.78	ND	U	1.75	ND	U	1.74	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	0.0204	J	0.356	0.0204	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.212	J	0.348	ND	U	0.359	ND	U	0.363
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
	PYRENE	1,790	1,720	0.024	J	0.356	0.0174	J	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	0.293	J	0.348	ND	U	0.359	ND	U	0.363
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.355	ND	U	0.351	ND	U	0.355	ND	U	0.349	ND	U	0.348	ND	U	0.359	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	0.000849	J	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	0.000481	J	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	1-CHLOROHEXANE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	2-BUTANONE	25.5	37,100	0.0118		0.00828	0.0156		0.0103	0.00255	J	0.00626	0.0161		0.00798	0.00764		0.00477	0.00571	J	0.00574	ND	U	0.00485	ND	U	0.00508
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	2-HEXANONE	NE	NE	ND	U	0.00828	ND	U	0.0103	ND	U	0.00626	ND	U	0.00798	ND	U	0.00477	ND	U	0.00574	ND	U	0.00485	ND	U	0.00508
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0414	ND	UJ	0.0517	ND	U	0.0313	ND	U	0.0399	ND	U	0.0238	ND	UJ	0.0287	ND	UJ	0.0242	ND	UJ	0.0254
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0414	ND	UJ	0.0517	ND	U	0.0313	ND	U	0.0399	ND	U	0.0238	ND	U	0.0287	ND	U	0.0242	ND	U	0.0254
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00828	ND	U	0.0103	ND	U	0.00626	ND	U	0.00798	ND	U	0.00477	ND	U	0.00574	ND	U	0.00485	ND	U	0.00508
	ACETONE	77.1	66,600	0.0184	J	0.0414	0.0319	J	0.0517	0.0267	J	0.0313	0.0437		0.0399	0.0255		0.0238	0.0265	J	0.0287	0.00647	J	0.0242	0.00951	J	0.0254
	BENZENE	0.0345	15.4	0.0002	J	0.00331	0.000648	J	0.00414	0.00311		0.0025	0.000943	J	0.00319	0.000915	J	0.00191	0.000389	J	0.0023	ND	U	0.00194	0.000402	J	0.00203
	BROMOBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	BROMOFORM	12.1	6,116	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	BROMOMETHANE	0.0385	16.5	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	UJ	0.00319	ND	UJ	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CHLOROBENZENE	0.984	376	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CHLOROETHANE	107	29,800	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CHLOROFORM	0.00918	5.86	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CHLOROMETHANE	0.879	275	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	ETHYLBENZENE	0.26	68.4	ND	U	0.00331	ND	U	0.00414	0.000633	J	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	M,P-XYLENES	NE	NE	ND	U	0.00662	ND	U	0.00828	0.00221	J	0.00501	ND	U	0.00639	ND	U	0.00381	ND	U	0.0046	ND	U	0.00388	ND	U	0.00407
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00828	ND	U	0.0103	ND	U	0.00626	ND	U	0.00798	ND	U	0.00477	ND	U	0.00574	ND	U	0.00485	ND	U	0.00508
	NAPHTHALENE	0.0713	43.0	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	N-BUTYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	N-PROPYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	O-XYLENE	3.13	898	ND	U	0.00331	ND	U	0.00414	0.000573	J	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP131			DP131			DP131			DP131			DP131			DP132			DP132			DP132		
		SAMPLE NO		FFOR0730			FFOR0731			FFOR0732			FFOR0733			FFOR0734			FFOR0735			FFOR0736			FFOR0737		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			9-Apr-12			9-Apr-12			9-Apr-12		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	STYRENE	27.7	7,280	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TOLUENE	25.3	5,270	ND	U	0.00331	ND	U	0.00414	0.00381		0.0025	0.00134	J	0.00319	0.00148	J	0.00191	0.000722	J	0.0023	ND	U	0.00194	0.000767	J	0.00203
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00331	ND	UJ	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00331	ND	U	0.00414	ND	U	0.0025	ND	U	0.00319	ND	U	0.00191	ND	U	0.0023	ND	U	0.00194	ND	U	0.00203
	XYLENES	3.13	814	ND	U	0.00993	ND	U	0.0124	0.00279	J	0.00751	ND	U	0.00958	ND	U	0.00572	ND	U	0.00689	ND	U	0.00582	ND	U	0.0061
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.86		0.65	4.42		0.64	5.01	J-	0.64	6.03		0.66	4.07		0.63	8.95		0.63	3.76		0.66	6.12		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP132			DP132			DP133			DP133			DP133			DP133			DP133			DP133		
				SAMPLE NO	FFOR0738			FFOR0739			FFOR0740			FFOR0741			FFOR0742			FFOR0743			FFOR0744			FFOR0745		
				SAMPLE DATE	9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.56	ND	U	4.22	4.28	J	4.43	ND	U	4.56	1.84	J	4.74	ND	U	4.6	ND	U	4.44	ND	U	4.3
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.88	ND	U	5.67	ND	U	8.03	ND	U	6.07	ND	U	7.17	ND	U	5.48	ND	U	5.33	ND	U	8.29
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.757	ND	U	0.701	ND	U	0.731	ND	U	0.754	ND	U	0.781	ND	U	0.76	ND	U	0.735	ND	U	0.705
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	UJ	0.379	ND	UJ	0.35	ND	UJ	0.366	ND	UJ	0.377	ND	UJ	0.391	ND	UJ	0.38	ND	UJ	0.367	ND	UJ	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	ANTHRACENE	5,410	17,200	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.379	ND	U	0.35	0.0268	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.379	ND	U	0.35	0.0378	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.379	ND	U	0.35	0.0153	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	CARBAZOLE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	CHRYSENE	160	147	ND	U	0.379	ND	U	0.35	0.0285	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	FLUORANTHENE	2,430	2,290	ND	U	0.379	ND	U	0.35	0.0433	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	FLUORENE	406	2,290	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP132			DP132			DP133			DP133			DP133			DP133			DP133			DP133		
			SAMPLE NO	FFOR0738			FFOR0739			FFOR0740			FFOR0741			FFOR0742			FFOR0743			FFOR0744			FFOR0745		
			SAMPLE DATE	9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.89	ND	U	1.75	ND	U	1.83	ND	U	1.89	ND	U	1.95	ND	U	1.9	ND	U	1.84	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.379	ND	U	0.35	0.0236	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.379	ND	U	0.35	0.039	J	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.379	ND	U	0.35	ND	U	0.366	ND	U	0.377	ND	U	0.391	ND	U	0.38	ND	U	0.367	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00124	J	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	0.00109	J	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000722	J	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	0.000584	J	0.00234	ND	U	0.00193	ND	U	0.0025
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	1-CHLOROHEXANE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	2-BUTANONE	25.5	37,100	0.00311	J	0.00535	ND	U	0.00503	0.00336	J	0.00632	ND	U	0.00597	0.00413	J	0.00717	ND	U	0.00585	0.00406	J	0.00481	ND	U	0.00625
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	2-HEXANONE	NE	NE	ND	U	0.00535	ND	U	0.00503	ND	U	0.00632	ND	U	0.00597	ND	U	0.00717	ND	U	0.00585	ND	U	0.00481	ND	U	0.00625
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0267	ND	UJ	0.0252	ND	UJ	0.0316	ND	UJ	0.0298	ND	UJ	0.0358	ND	UJ	0.0293	ND	UJ	0.0241	ND	UJ	0.0312
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0267	ND	U	0.0252	ND	U	0.0316	ND	U	0.0298	ND	U	0.0358	ND	U	0.0293	ND	U	0.0241	ND	U	0.0312
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00535	ND	U	0.00503	ND	U	0.00632	ND	U	0.00597	ND	U	0.00717	ND	U	0.00585	ND	U	0.00481	ND	U	0.00625
	ACETONE	77.1	66,600	0.00705	J	0.0267	0.00913	J	0.0252	0.0223	J	0.0316	0.0137	J	0.0298	0.0237	J	0.0358	0.016	J	0.0293	0.0125	J	0.0241	0.0106	J	0.0312
	BENZENE	0.0345	15.4	0.003		0.00214	0.00038	J	0.00201	ND	U	0.00253	ND	U	0.00239	0.00162	J	0.00287	0.00231	J	0.00234	ND	U	0.00193	ND	U	0.0025
	BROMOBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	BROMOFORM	12.1	6,116	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	BROMOMETHANE	0.0385	16.5	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	0.000634	J	0.00234	ND	U	0.00193	ND	U	0.0025
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CHLOROBENZENE	0.984	376	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CHLOROETHANE	107	29,800	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CHLOROFORM	0.00918	5.86	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CHLOROMETHANE	0.879	275	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	ETHYLBENZENE	0.26	68.4	0.000644	J	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	M,P-XYLENES	NE	NE	0.0027	J	0.00428	ND	U	0.00402	ND	U	0.00506	ND	U	0.00477	0.00153	J	0.00573	0.00256	J	0.00468	ND	U	0.00385	ND	U	0.005
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00535	ND	U	0.00503	ND	U	0.00632	ND	U	0.00597	ND	U	0.00717	ND	U	0.00585	ND	U	0.00481	ND	U	0.00625
	NAPHTHALENE	0.0713	43.0	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	N-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	N-PROPYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	O-XYLENE	3.13	898	0.000666	J	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	0.000465	J	0.00287	0.000684	J	0.00234	ND	U	0.00193	ND	U	0.0025

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP132			DP132			DP133			DP133			DP133			DP133			DP133			DP133		
		SAMPLE NO		FFOR0738			FFOR0739			FFOR0740			FFOR0741			FFOR0742			FFOR0743			FFOR0744			FFOR0745		
		SAMPLE DATE		9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	STYRENE	27.7	7,280	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00214	0.000458	J	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TOLUENE	25.3	5,270	0.00394		0.00214	0.00116	J	0.00201	ND	U	0.00253	ND	U	0.00239	0.00265	J	0.00287	0.0037		0.00234	ND	U	0.00193	ND	U	0.0025
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	VINYL ACETATE	1.52	2,560	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00214	ND	U	0.00201	ND	U	0.00253	ND	U	0.00239	ND	U	0.00287	ND	U	0.00234	ND	U	0.00193	ND	U	0.0025
	XYLENES	3.13	814	0.00337	J	0.00641	ND	U	0.00604	ND	U	0.00759	ND	U	0.00716	0.002	J	0.0086	0.00325	J	0.00702	ND	U	0.00578	ND	U	0.0075
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.21		0.69	4.78		0.64	7.7		0.66	4.7		0.68	8.48		0.71	8.15		0.7	9.15		0.67	4.57		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP134			DP134			DP134			DP134			DP134			DP135			DP135			DP135		
			SAMPLE NO	FFOR0746			FFOR0747			FFOR0748			FFOR0749			FFOR0750			FFOR0751			FFOR0752			FFOR0753		
			SAMPLE DATE	9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	5.14		4.44	4.22	J	4.29	1.87	J	4.43	2.19	J	4.35	ND	U	4.31	2.63	J	4.33	2.8	J	4.2	ND	U	4.33
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.29	ND	U	6	ND	U	5.47	ND	U	6.48	ND	U	6.81	ND	U	5.15	0.861	J	5.15	ND	U	5.84
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2-CHLOROPHENOL	2.31	391	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.728	ND	U	0.717	ND	U	0.736	ND	U	0.705	ND	U	0.721	ND	U	0.717	ND	U	0.697	ND	U	0.72
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	4-CHLOROANILINE	NE	NE	ND	UJ	0.364	ND	UJ	0.358	ND	UJ	0.368	ND	UJ	0.353	ND	UJ	0.36	ND	UJ	0.359	ND	UJ	0.349	ND	UJ	0.36
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	ACENAPHTHYLENE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	ANTHRACENE	5,410	17,200	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BENZENAMINE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	0.0243	J	0.349	ND	U	0.36
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	0.034	J	0.349	ND	U	0.36
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	0.0221	J	0.349	ND	U	0.36
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	CARBAZOLE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	CHRYSENE	160	147	0.0356	J	0.364	0.0337	J	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	0.016	J	0.359	0.0331	J	0.349	ND	U	0.36
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	DIBENZOFURAN	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	DIETHYL PHTHALATE	193	48,900	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	FLUORANTHENE	2,430	2,290	0.0363	J	0.364	0.035	J	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	0.0245	J	0.359	0.042	J	0.349	ND	U	0.36
	FLUORENE	406	2,290	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	ISOPHORONE	3.84	5,120	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	NAPHTHALENE	0.0713	43.0	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	NITROBENZENE	0.0125	53.5	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP134			DP134			DP134			DP134			DP134			DP135			DP135			DP135		
			SAMPLE NO	FFOR0746			FFOR0747			FFOR0748			FFOR0749			FFOR0750			FFOR0751			FFOR0752			FFOR0753		
			SAMPLE DATE	9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.8	ND	U	1.79	ND	U	1.74	ND	U	1.8
	PHENANTHRENE	571	1,830	0.023	J	0.364	0.0164	J	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	0.0118	J	0.359	0.0186	J	0.349	ND	U	0.36
	PHENOL	99.5	18,300	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
	PYRENE	1,790	1,720	0.0352	J	0.364	0.0345	J	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	0.0209	J	0.359	0.0337	J	0.349	ND	U	0.36
	PYRIDINE	NE	NE	ND	U	0.364	ND	U	0.358	ND	U	0.368	ND	U	0.353	ND	U	0.36	ND	U	0.359	ND	U	0.349	ND	U	0.36
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	0.000954	J	0.0022	0.000364	J	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	0.00109	J	0.0023
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	0.000506	J	0.0022	0.000197	J	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	0.000641	J	0.0023
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	1-CHLOROHEXANE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	2-BUTANONE	25.5	37,100	0.0018	J	0.00569	ND	U	0.00478	0.00249	J	0.00551	0.00378	J	0.0053	0.00211	J	0.0055	0.00381	J	0.00454	0.00674	J	0.00738	0.00294	J	0.00576
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	2-HEXANONE	NE	NE	ND	U	0.00569	ND	U	0.00478	ND	U	0.00551	ND	U	0.0053	ND	U	0.0055	ND	U	0.00454	ND	U	0.00738	ND	U	0.00576
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0284	ND	UJ	0.0239	ND	UJ	0.0276	ND	UJ	0.0265	ND	UJ	0.0275	ND	UJ	0.0227	ND	UJ	0.0369	ND	UJ	0.0288
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0284	ND	U	0.0239	ND	U	0.0276	ND	U	0.0265	ND	U	0.0275	ND	U	0.0227	ND	U	0.0369	ND	U	0.0288
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00569	ND	U	0.00478	ND	U	0.00551	ND	U	0.0053	ND	U	0.0055	ND	U	0.00454	ND	U	0.00738	ND	U	0.00576
	ACETONE	77.1	66,600	0.00947	J	0.0284	0.0119	J	0.0239	0.00605	J	0.0276	0.0121	J	0.0265	0.00787	J	0.0275	0.0119	J	0.0227	0.0324	J	0.0369	0.0101	J	0.0288
	BENZENE	0.0345	15.4	ND	U	0.00228	ND	U	0.00191	0.0023		0.0022	0.00112	J	0.00212	0.000226	J	0.0022	ND	U	0.00181	0.000479	J	0.00295	0.00291		0.0023
	BROMOBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	BROMOFORM	12.1	6,116	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	BROMOMETHANE	0.0385	16.5	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CHLOROBENZENE	0.984	376	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CHLOROETHANE	107	29,800	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CHLOROFORM	0.00918	5.86	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CHLOROMETHANE	0.879	275	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	ETHYLBENZENE	0.26	68.4	ND	U	0.00228	ND	U	0.00191	0.000465	J	0.0022	0.000506	J	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	M,P-XYLENES	NE	NE	ND	U	0.00455	ND	U	0.00382	0.00217	J	0.00441	0.000955	J	0.00424	ND	U	0.0044	ND	U	0.00363	ND	U	0.0059	0.00254	J	0.00461
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00569	ND	U	0.00478	ND	U	0.00551	ND	U	0.0053	ND	U	0.0055	ND	U	0.00454	ND	U	0.00738	ND	U	0.00576
	NAPHTHALENE	0.0713	43.0	ND	U	0.00228	ND	U	0.00191	0.000287	J	0.0022	0.000236	J	0.00212	ND	U	0.0022	ND	U	0.00181	0.000298	J	0.00295	ND	U	0.0023
	N-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	N-PROPYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	O-XYLENE	3.13	898	ND	U	0.00228	ND	U	0.00191	0.00056	J	0.0022	0.000296	J	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	0.000631	J	0.0023

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		LOCATION CODE		DP134			DP134			DP134			DP134			DP134			DP135			DP135			DP135		
		SAMPLE NO		FFOR0746			FFOR0747			FFOR0748			FFOR0749			FFOR0750			FFOR0751			FFOR0752			FFOR0753		
		SAMPLE DATE		9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	STYRENE	27.7	7,280	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TOLUENE	25.3	5,270	ND	U	0.00228	0.000369	J	0.00191	0.00331		0.0022	0.00205	J	0.00212	ND	U	0.0022	ND	U	0.00181	0.00146	J	0.00295	0.00373		0.0023
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	VINYL ACETATE	1.52	2,560	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00228	ND	U	0.00191	ND	U	0.0022	ND	U	0.00212	ND	U	0.0022	ND	U	0.00181	ND	U	0.00295	ND	U	0.0023
	XYLENES	3.13	814	ND	U	0.00683	ND	U	0.00573	0.00273	J	0.00661	0.00125	J	0.00637	ND	U	0.0066	ND	U	0.00544	ND	U	0.00885	0.00317	J	0.00691
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.23		0.66	5.52		0.65	8.73		0.67	6.73		0.65	4.38		0.66	5.25		0.65	4.6		0.64	8.31		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP135			DP135			DP135			DP136			DP136			DP136			DP136			DP136		
			SAMPLE NO	FFOR0754			FFOR0755			FFOR0756			FFOR0757			FFOR0758			FFOR0759			FFOR0760			FFOR0761		
			SAMPLE DATE	9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.23	ND	U	4.25	ND	U	4.17	3.73	J	4.36	ND	U	4.38	1.67	J	4.42	ND	U	4.28	ND	U	4.17
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.36	ND	U	6.05	ND	U	5.95	ND	U	5.98	ND	U	5.87	ND	U	5.81	ND	U	5.08	ND	U	6.02
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.706	ND	U	0.694	ND	U	0.697	ND	U	0.715	ND	U	0.73	ND	U	0.725	ND	U	0.711	ND	U	0.69
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	4-CHLOROANILINE	NE	NE	ND	UJ	0.353	ND	UJ	0.347	ND	UJ	0.349	ND	UJ	0.358	ND	UJ	0.365	ND	UJ	0.363	ND	UJ	0.356	ND	UJ	0.345
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.347	ND	U	0.349	0.654		0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.347	ND	U	0.349	0.0168	J	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP135			DP135			DP135			DP136			DP136			DP136			DP136			DP136		
		SAMPLE NO		FFOR0754			FFOR0755			FFOR0756			FFOR0757			FFOR0758			FFOR0759			FFOR0760			FFOR0761		
		SAMPLE DATE		9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.74	ND	U	1.74	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.73
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.347	ND	U	0.349	0.0151	J	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.347	ND	U	0.349	0.0171	J	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.347	ND	U	0.349	ND	U	0.358	ND	U	0.365	ND	U	0.363	ND	U	0.356	ND	U	0.345
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	0.00122	J	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	0.000657	J	0.00288	ND	U	0.00262	ND	U	0.00216
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	1-CHLOROHEXANE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	2-BUTANONE	25.5	37,100	0.00673		0.00656	0.0023	J	0.00512	0.00584		0.00553	ND	U	0.00456	ND	U	0.00574	ND	U	0.0072	0.00855		0.00655	0.00601		0.0054
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	2-HEXANONE	NE	NE	ND	U	0.00656	ND	U	0.00512	ND	U	0.00553	ND	U	0.00456	ND	U	0.00574	ND	U	0.0072	ND	U	0.00655	ND	U	0.0054
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0328	ND	UJ	0.0256	ND	UJ	0.0276	ND	UJ	0.0228	ND	UJ	0.0287	ND	UJ	0.036	ND	UJ	0.0328	ND	UJ	0.027
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0328	ND	U	0.0256	ND	U	0.0276	ND	U	0.0228	ND	U	0.0287	ND	U	0.036	ND	U	0.0328	ND	U	0.027
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00656	ND	U	0.00512	ND	U	0.00553	ND	U	0.00456	ND	U	0.00574	ND	U	0.0072	ND	U	0.00655	ND	U	0.0054
	ACETONE	77.1	66,600	0.0239	J	0.0328	0.00818	J	0.0256	0.0217	J	0.0276	0.00525	J	0.0228	0.00964	J	0.0287	0.0204	J	0.036	0.0337		0.0328	0.0252	J	0.027
	BENZENE	0.0345	15.4	ND	U	0.00263	0.000248	J	0.00205	0.000736	J	0.00221	0.000339	J	0.00182	ND	U	0.0023	0.00305		0.00288	ND	U	0.00262	0.00116	J	0.00216
	BROMOBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	BROMOFORM	12.1	6,116	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	BROMOMETHANE	0.0385	16.5	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CHLOROBENZENE	0.984	376	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CHLOROETHANE	107	29,800	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CHLOROFORM	0.00918	5.86	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CHLOROMETHANE	0.879	275	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	ETHYLBENZENE	0.26	68.4	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	0.000624	J	0.00288	ND	U	0.00262	0.000414	J	0.00216
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	M,P-XYLENES	NE	NE	ND	U	0.00525	ND	U	0.0041	ND	U	0.00442	ND	U	0.00365	ND	U	0.00459	0.00276	J	0.00576	ND	U	0.00524	0.00117	J	0.00432
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00656	ND	U	0.00512	ND	U	0.00553	ND	U	0.00456	ND	U	0.00574	ND	U	0.0072	ND	U	0.00655	ND	U	0.0054
	NAPHTHALENE	0.0713	43.0	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	N-BUTYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	N-PROPYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	O-XYLENE	3.13	898	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	0.00066	J	0.00288	ND	U	0.00262	0.00032	J	0.00216

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		LOCATION CODE		DP135			DP135			DP135			DP136			DP136			DP136			DP136			DP136		
		SAMPLE NO		FFOR0754			FFOR0755			FFOR0756			FFOR0757			FFOR0758			FFOR0759			FFOR0760			FFOR0761		
		SAMPLE DATE		9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12			9-Apr-12		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	STYRENE	27.7	7,280	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TOLUENE	25.3	5,270	0.000986	J	0.00263	0.000575	J	0.00205	0.00157	J	0.00221	0.000867	J	0.00182	ND	U	0.0023	0.00437		0.00288	0.000974	J	0.00262	0.00264		0.00216
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	VINYL ACETATE	1.52	2,560	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00263	ND	U	0.00205	ND	U	0.00221	ND	U	0.00182	ND	U	0.0023	ND	U	0.00288	ND	U	0.00262	ND	U	0.00216
	XYLENES	3.13	814	ND	U	0.00788	ND	U	0.00614	ND	U	0.00663	ND	U	0.00547	ND	U	0.00689	0.00342	J	0.00864	ND	U	0.00786	0.0015	J	0.00648
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.62		0.64	3.97		0.64	5.09		0.63	5.4		0.65	3.87		0.66	8.63		0.66	6.84		0.65	4.18		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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			LOCATION CODE	DP137			DP137			DP137			DP137			DP137			DP137			DP138			DP138		
			SAMPLE NO	FFOR0762			FFOR0763			FFOR0764			FFOR0765			FFOR0766			FFOR0767			FFOR0768			FFOR0769		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.07	J	4.5	ND	U	4.47	ND	U	4.24	ND	U	4.36	ND	U	4.45	ND	U	4.27	18.6		4.4	ND	U	4.33
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.72	ND	U	7.8	ND	U	5.46	ND	U	5.12	ND	U	5.56	ND	U	5.77	ND	U	5.37	ND	U	5.79
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.733	ND	U	0.743	ND	U	0.694	ND	U	0.726	ND	U	0.74	ND	U	0.712	ND	U	0.718	ND	U	0.727
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	UJ	0.366	ND	UJ	0.371	ND	UJ	0.347	ND	UJ	0.363	ND	UJ	0.37	ND	UJ	0.356	ND	UJ	0.359	ND	UJ	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0185	J	0.359	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0389	J	0.359	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0345	J	0.359	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0453	J	0.359	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.035	J	0.359	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0208	J	0.359	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	CHRYSENE	160	147	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.0538	J	0.359	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.112	J	0.359	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP137			DP137			DP137			DP137			DP137			DP137			DP138			DP138		
			SAMPLE NO	FFOR0762			FFOR0763			FFOR0764			FFOR0765			FFOR0766			FFOR0767			FFOR0768			FFOR0769		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			FD			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.86	ND	U	1.74	ND	U	1.81	ND	U	1.85	ND	U	1.78	ND	U	1.8	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.102	J	0.359	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	0.11	J	0.359	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	0.366	ND	U	0.371	ND	U	0.347	ND	U	0.363	ND	U	0.37	ND	U	0.356	ND	U	0.359	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	0.000347	J	0.00197	ND	U	0.00184	0.00066	J	0.00209	0.00015	J	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	0.000377	J	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	1-CHLOROHEXANE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	2-BUTANONE	25.5	37,100	ND	U	0.00509	0.00314	J	0.0059	ND	U	0.00493	0.00196	J	0.00461	0.00347	J	0.00524	0.00237	J	0.00517	0.00176	J	0.00573	0.000952	J	0.00419
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	2-HEXANONE	NE	NE	ND	U	0.00509	ND	U	0.0059	ND	U	0.00493	ND	U	0.00461	ND	U	0.00524	ND	U	0.00517	ND	U	0.00573	ND	U	0.00419
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0255	ND	UJ	0.0295	ND	UJ	0.0247	ND	UJ	0.023	ND	UJ	0.0262	ND	UJ	0.0258	ND	UJ	0.0286	ND	UJ	0.0209
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0255	ND	U	0.0295	ND	U	0.0247	ND	U	0.023	ND	U	0.0262	ND	U	0.0258	ND	U	0.0286	ND	U	0.0209
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00509	ND	U	0.0059	ND	U	0.00493	ND	U	0.00461	ND	U	0.00524	ND	U	0.00517	ND	U	0.00573	ND	U	0.00419
	ACETONE	77.1	66,600	0.0105	J	0.0255	0.0166	J	0.0295	0.0108	J	0.0247	0.00939	J	0.023	0.0128	J	0.0262	0.00683	J	0.0258	0.00849	J	0.0286	0.00746	J	0.0209
	BENZENE	0.0345	15.4	ND	U	0.00204	ND	U	0.00236	0.000884	J	0.00197	0.000407	J	0.00184	0.00189	J	0.00209	0.000327	J	0.00207	ND	U	0.00229	ND	U	0.00167
	BROMOBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	BROMOFORM	12.1	6,116	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	BROMOMETHANE	0.0385	16.5	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CHLOROBENZENE	0.984	376	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CHLOROETHANE	107	29,800	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CHLOROFORM	0.00918	5.86	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CHLOROMETHANE	0.879	275	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	ETHYLBENZENE	0.26	68.4	ND	U	0.00204	ND	U	0.00236	0.0003	J	0.00197	ND	U	0.00184	0.000452	J	0.00209	0.000268	J	0.00207	ND	U	0.00229	ND	U	0.00167
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	M,P-XYLENES	NE	NE	ND	U	0.00408	ND	U	0.00472	0.000763	J	0.00395	ND	U	0.00368	0.0017	J	0.00419	ND	U	0.00414	ND	U	0.00458	ND	U	0.00335
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00509	ND	U	0.0059	ND	U	0.00493	ND	U	0.00461	ND	U	0.00524	ND	U	0.00517	ND	U	0.00573	ND	U	0.00419
	NAPHTHALENE	0.0713	43.0	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	N-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	N-PROPYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	O-XYLENE	3.13	898	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	0.00044	J	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP137			DP137			DP137			DP137			DP137			DP137			DP138			DP138		
		SAMPLE NO		FFOR0762			FFOR0763			FFOR0764			FFOR0765			FFOR0766			FFOR0767			FFOR0768			FFOR0769		
		SAMPLE DATE		10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			FD			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	STYRENE	27.7	7,280	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	0.000369	J	0.00229	0.000218	J	0.00167
	TOLUENE	25.3	5,270	0.000638	J	0.00204	0.000745	J	0.00236	0.00141	J	0.00197	ND	U	0.00184	0.00278		0.00209	0.000711	J	0.00207	ND	U	0.00229	ND	U	0.00167
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	VINYL ACETATE	1.52	2,560	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00204	ND	U	0.00236	ND	U	0.00197	ND	U	0.00184	ND	U	0.00209	ND	U	0.00207	ND	U	0.00229	ND	U	0.00167
	XYLENES	3.13	814	ND	U	0.00611	ND	U	0.00709	0.000763	J	0.00592	ND	U	0.00553	0.00214	J	0.00628	ND	U	0.0062	ND	U	0.00687	ND	U	0.00502
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.98		0.67	3.51		0.67	4.41		0.64	4.24		0.66	7.94		0.67	3.96		0.65	12		0.66	2.74		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP138			DP138			DP138			DP139			DP139			DP139			DP139			DP139		
			SAMPLE NO	FFOR0770			FFOR0771			FFOR0772			FFOR0773			FFOR0774			FFOR0775			FFOR0776			FFOR0777		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.41	ND	U	4.39	ND	U	4.23	ND	U	4.48	ND	U	4.23	1.62	J	4.46	ND	U	4.31	ND	U	4.33
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.84	ND	U	6.3	ND	U	5.74	ND	U	5.05	ND	U	5.35	ND	U	6.77	ND	U	6.57	ND	U	6.29
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.736	ND	U	0.727	ND	U	0.7	ND	U	0.736	ND	U	0.705	ND	U	0.744	ND	U	0.718	ND	U	0.71
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	UJ	0.368	ND	UJ	0.363	ND	UJ	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	ANTHRACENE	5,410	17,200	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	CHRYSENE	160	147	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	FLUORANTHENE	2,430	2,290	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	FLUORENE	406	2,290	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP138			DP138			DP138			DP139			DP139			DP139			DP139			DP139		
		SAMPLE NO		FFOR0770			FFOR0771			FFOR0772			FFOR0773			FFOR0774			FFOR0775			FFOR0776			FFOR0777		
		SAMPLE DATE		10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.82	ND	U	1.75	ND	U	1.84	ND	U	1.76	ND	U	1.86	ND	U	1.79	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	PHENOL	99.5	18,300	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	PYRENE	1,790	1,720	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.35	ND	U	0.368	ND	U	0.353	ND	U	0.372	ND	U	0.359	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000374	J	0.0024	ND	U	0.0022	0.000255	J	0.00218	ND	U	0.0019	ND	U	0.00198	0.00152	J	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000186	J	0.0024	ND	U	0.0022	0.000128	J	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	1-CHLOROHEXANE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	2-BUTANONE	25.5	37,100	0.00189	J	0.00599	0.00738		0.00551	0.00466	J	0.00545	0.00442	J	0.00476	ND	U	0.00494	ND	U	0.0053	0.00455	J	0.00567	0.0047	J	0.00545
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	2-HEXANONE	NE	NE	ND	U	0.00599	ND	U	0.00551	ND	U	0.00545	ND	U	0.00476	ND	U	0.00494	ND	U	0.0053	ND	U	0.00567	ND	U	0.00545
	2-PROPENAL	0.000146	0.404	ND	UJ	0.03	ND	UJ	0.0276	ND	UJ	0.0272	ND	UJ	0.0238	ND	UJ	0.0247	ND	UJ	0.0265	ND	UJ	0.0284	ND	UJ	0.0272
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.03	ND	U	0.0276	ND	U	0.0272	ND	U	0.0238	ND	U	0.0247	ND	U	0.0265	ND	U	0.0284	ND	U	0.0272
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00599	ND	U	0.00551	ND	U	0.00545	ND	U	0.00476	ND	U	0.00494	ND	U	0.0053	ND	U	0.00567	ND	U	0.00545
	ACETONE	77.1	66,600	0.00873	J	0.03	0.0282		0.0276	0.0172	J	0.0272	0.023	J	0.0238	0.0179	J	0.0247	0.0142	J	0.0265	0.02	J	0.0284	0.0187	J	0.0272
	BENZENE	0.0345	15.4	0.000924	J	0.0024	0.000243	J	0.0022	0.000821	J	0.00218	ND	U	0.0019	ND	U	0.00198	0.00368		0.00212	ND	U	0.00227	ND	U	0.00218
	BROMOBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	BROMOFORM	12.1	6,116	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	BROMOMETHANE	0.0385	16.5	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CHLOROBENZENE	0.984	376	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CHLOROETHANE	107	29,800	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CHLOROFORM	0.00918	5.86	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CHLOROMETHANE	0.879	275	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	ETHYLBENZENE	0.26	68.4	0.000272	J	0.0024	0.000289	J	0.0022	0.000542	J	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	M,P-XYLENES	NE	NE	0.000918	J	0.00479	ND	U	0.00441	0.000616	J	0.00436	ND	U	0.00381	ND	U	0.00396	0.00375	J	0.00424	ND	U	0.00454	ND	U	0.00436
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00599	ND	U	0.00551	ND	U	0.00545	ND	U	0.00476	ND	U	0.00494	ND	U	0.0053	ND	U	0.00567	ND	U	0.00545
	NAPHTHALENE	0.0713	43.0	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	N-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	N-PROPYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	O-XYLENE	3.13	898	ND	U	0.0024	ND	U	0.0022	0.000186	J	0.00218	ND	U	0.0019	ND	U	0.00198	0.000972	J	0.00212	ND	U	0.00227	ND	U	0.00218

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP138			DP138			DP138			DP139			DP139			DP139			DP139			DP139		
		SAMPLE NO		FFOR0770			FFOR0771			FFOR0772			FFOR0773			FFOR0774			FFOR0775			FFOR0776			FFOR0777		
		SAMPLE DATE		10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	STYRENE	27.7	7,280	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	UJ	0.00212	ND	U	0.00227	ND	U	0.00218
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	TETRACHLOROETHENE	0.00861	7.02	0.000253	J	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	TOLUENE	25.3	5,270	0.0017	J	0.0024	0.000906	J	0.0022	0.00171	J	0.00218	ND	U	0.0019	0.00119	J	0.00198	0.00586		0.00212	ND	U	0.00227	0.00143	J	0.00218
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	VINYL ACETATE	1.52	2,560	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	UJ	0.00212	ND	U	0.00227	ND	U	0.00218
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0024	ND	U	0.0022	ND	U	0.00218	ND	U	0.0019	ND	U	0.00198	ND	U	0.00212	ND	U	0.00227	ND	U	0.00218
	XYLENES	3.13	814	0.000918	J	0.00719	ND	U	0.00661	0.000801	J	0.00654	ND	U	0.00571	ND	U	0.00593	0.00472	J	0.00637	ND	U	0.0068	ND	U	0.00653
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.81		0.67	7.45		0.66	4.39		0.64	5.01		0.68	3.99		0.64	9.13	J-	0.68	5.4		0.65	4.47		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP139			DP140			DP140			DP140			DP140			DP140			DP140			DP141		
			SAMPLE NO	FFOR0778			FFOR0779			FFOR0780			FFOR0781			FFOR0782			FFOR0783			FFOR0784			FFOR0785		
			SAMPLE DATE	11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12		
			SAMPLE PURPOSE	FD			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	25.9		4.3	195		21.5	9.4		4.38	3.46	J	4.41	3.02	J	4.3	ND	U	4.2	ND	U	4.5
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.17	ND	U	5.55	ND	U	5.93	ND	U	5.32	ND	U	5.87	ND	U	5.16	ND	U	6.17	ND	U	6.44
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.708	ND	U	0.711	ND	U	0.723	ND	U	0.717	ND	U	0.721	ND	U	0.697	ND	U	0.742
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	FLUORANTHENE	2,430	2,290	ND	U	0.356	0.0211	J	0.354	0.00936	J	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP139			DP140			DP140			DP140			DP140			DP140			DP140			DP141		
		SAMPLE NO		FFOR0778			FFOR0779			FFOR0780			FFOR0781			FFOR0782			FFOR0783			FFOR0784			FFOR0785		
		SAMPLE DATE		11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12		
		SAMPLE PURPOSE		FD			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.77	ND	U	1.78	ND	U	1.81	ND	U	1.79	ND	U	1.8	ND	U	1.74	ND	U	1.86
	PHENANTHRENE	571	1,830	ND	U	0.356	0.0148	J	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	PYRENE	1,790	1,720	ND	U	0.356	0.0262	J	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.354	ND	U	0.355	ND	U	0.361	ND	U	0.358	ND	U	0.36	ND	U	0.349	ND	U	0.371
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	0.000301	J	0.00225	ND	U	0.00265	ND	U	0.00212	0.000645	J	0.00224	ND	U	0.00232	0.000165	J	0.00224	ND	U	0.00184
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	0.000224	J	0.00225	ND	U	0.00265	0.00236		0.00212	0.000391	J	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	1-CHLOROHEXANE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	2-BUTANONE	25.5	37,100	0.00415	J	0.00485	ND	U	0.00562	0.00492	J	0.00664	ND	U	0.00529	0.00274	J	0.0056	0.00471	J	0.0058	0.0043	J	0.0056	ND	U	0.00459
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	2-HEXANONE	NE	NE	ND	U	0.00485	ND	U	0.00562	ND	U	0.00664	ND	U	0.00529	ND	U	0.0056	ND	U	0.0058	ND	U	0.0056	ND	U	0.00459
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0242	ND	UJ	0.0281	ND	UJ	0.0332	ND	UJ	0.0265	ND	UJ	0.028	ND	UJ	0.029	ND	UJ	0.028	ND	UJ	0.0229
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0242	ND	U	0.0281	ND	U	0.0332	ND	U	0.0265	ND	U	0.028	ND	U	0.029	ND	U	0.028	ND	U	0.0229
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00485	ND	U	0.00562	ND	U	0.00664	ND	U	0.00529	ND	U	0.0056	ND	U	0.0058	ND	U	0.0056	ND	U	0.00459
	ACETONE	77.1	66,600	0.0141	J	0.0242	0.0186	J	0.0281	0.0215	J	0.0332	0.0116	J	0.0265	0.0102	J	0.028	0.0222	J	0.029	0.0211	J	0.028	0.00406	J	0.0229
	BENZENE	0.0345	15.4	ND	U	0.00194	0.000545	J	0.00225	ND	U	0.00265	ND	U	0.00212	0.00202	J	0.00224	0.00022	J	0.00232	0.00067	J	0.00224	ND	U	0.00184
	BROMOBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	BROMOFORM	12.1	6,116	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	BROMOMETHANE	0.0385	16.5	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CHLOROBENZENE	0.984	376	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CHLOROETHANE	107	29,800	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CHLOROFORM	0.00918	5.86	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CHLOROMETHANE	0.879	275	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	ETHYLBENZENE	0.26	68.4	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	0.000381	J	0.00224	ND	U	0.00232	0.00032	J	0.00224	ND	U	0.00184
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	M,P-XYLENES	NE	NE	ND	U	0.00388	0.000426	J	0.0045	ND	U	0.00531	ND	U	0.00423	0.00149	J	0.00448	ND	U	0.00464	0.000443	J	0.00448	ND	U	0.00367
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00485	ND	U	0.00562	ND	U	0.00664	ND	U	0.00529	ND	U	0.0056	ND	U	0.0058	ND	U	0.0056	ND	U	0.00459
	NAPHTHALENE	0.0713	43.0	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	N-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	N-PROPYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184
	O-XYLENE	3.13	898	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP139			DP140			DP140			DP140			DP140			DP140			DP140			DP140			DP141		
		SAMPLE NO		FFOR0778			FFOR0779			FFOR0780			FFOR0781			FFOR0782			FFOR0783			FFOR0784			FFOR0785				
		SAMPLE DATE		11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			11-Apr-12				
		SAMPLE PURPOSE		FD			REG			FD			REG			REG			REG			REG			REG				
		SAMPLE DEPTH		20-21 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	0.00061	J	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	STYRENE	27.7	7,280	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	0.000246	J	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TOLUENE	25.3	5,270	0.00148	J	0.00194	0.00133	J	0.00225	ND	U	0.00265	0.000597	J	0.00212	0.0024		0.00224	0.001	J	0.00232	0.00128	J	0.00224	ND	U	0.00184		
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	VINYL ACETATE	1.52	2,560	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00194	ND	U	0.00225	ND	U	0.00265	ND	U	0.00212	ND	U	0.00224	ND	U	0.00232	ND	U	0.00224	ND	U	0.00184		
	XYLENES	3.13	814	ND	U	0.00582	0.000518	J	0.00675	ND	U	0.00796	ND	U	0.00635	0.00149	J	0.00672	ND	U	0.00696	0.000558	J	0.00672	ND	U	0.00551		
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.72		0.65	7.81		0.65	5.45		0.65	3.93		0.66	7.3		0.66	6.73		0.66	4.38		0.63	3.38		0.67		

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP141			DP141			DP141			DP141			DP141			DP142			DP142			DP142		
			SAMPLE NO	FFOR0786			FFOR0787			FFOR0788			FFOR0789			FFOR0790			FFOR0791			FFOR0792			FFOR0793		
			SAMPLE DATE	11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.26	ND	U	4.34	ND	U	4.51	ND	U	4.43	ND	U	4.28	ND	U	4.39	ND	U	4.3	ND	U	4.44
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.77	ND	U	5.82	ND	U	5.98	ND	U	6.11	ND	U	6.62	ND	U	5.27	ND	U	5.9	ND	U	5.71
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.708	ND	U	0.723	ND	U	0.742	ND	U	0.73	ND	U	0.71	ND	U	0.731	ND	U	0.709	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	CHRYSENE	160	147	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	FLUORANTHENE	2,430	2,290	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	FLUORENE	406	2,290	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP141			DP141			DP141			DP141			DP141			DP142			DP142			DP142		
			SAMPLE NO	FFOR0786			FFOR0787			FFOR0788			FFOR0789			FFOR0790			FFOR0791			FFOR0792			FFOR0793		
			SAMPLE DATE	11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
			SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.81	ND	U	1.86	ND	U	1.83	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	PYRENE	1,790	1,720	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
	PYRIDINE	NE	NE	ND	U	0.354	ND	U	0.361	ND	U	0.371	ND	U	0.365	ND	U	0.355	ND	U	0.365	ND	U	0.355	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	0.00111	J	0.00201	ND	U	0.00245	ND	U	0.00218	0.000203	J	0.00285	ND	U	0.00226	0.0011	J	0.00202
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	0.000663	J	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	0.000606	J	0.00202
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	1-CHLOROHEXANE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	2-BUTANONE	25.5	37,100	ND	U	0.00539	ND	U	0.00517	ND	U	0.00502	ND	U	0.00613	0.00515	J	0.00544	0.00398	J	0.00713	0.00211	J	0.00565	0.00258	J	0.00504
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	2-HEXANONE	NE	NE	ND	U	0.00539	ND	U	0.00517	ND	U	0.00502	ND	U	0.00613	ND	U	0.00544	ND	U	0.00713	ND	U	0.00565	ND	U	0.00504
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0269	ND	UJ	0.0259	ND	UJ	0.0251	ND	UJ	0.0307	ND	UJ	0.0272	ND	UJ	0.0356	ND	UJ	0.0283	ND	UJ	0.0252
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0269	ND	U	0.0259	ND	U	0.0251	ND	U	0.0307	ND	U	0.0272	ND	U	0.0356	ND	U	0.0283	ND	U	0.0252
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00539	ND	U	0.00517	ND	U	0.00502	ND	U	0.00613	ND	U	0.00544	ND	U	0.00713	ND	U	0.00565	ND	U	0.00504
	ACETONE	77.1	66,600	0.0133	J	0.0269	0.011	J	0.0259	0.00602	J	0.0251	0.0153	J	0.0307	0.0174	J	0.0272	0.0167	J	0.0356	0.00707	J	0.0283	0.00598	J	0.0252
	BENZENE	0.0345	15.4	ND	U	0.00216	ND	U	0.00207	0.00334		0.00201	ND	U	0.00245	0.00106	J	0.00218	0.000553	J	0.00285	0.000381	J	0.00226	0.00267		0.00202
	BROMOBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	BROMOFORM	12.1	6,116	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	BROMOMETHANE	0.0385	16.5	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CHLOROBENZENE	0.984	376	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CHLOROETHANE	107	29,800	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CHLOROFORM	0.00918	5.86	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CHLOROMETHANE	0.879	275	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	ETHYLBENZENE	0.26	68.4	ND	U	0.00216	ND	U	0.00207	0.000604	J	0.00201	ND	U	0.00245	0.000522	J	0.00218	ND	U	0.00285	ND	U	0.00226	0.000644	J	0.00202
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	M,P-XYLENES	NE	NE	ND	U	0.00431	ND	U	0.00414	0.00277	J	0.00401	ND	U	0.00491	0.000754	J	0.00435	0.000534	J	0.0057	ND	U	0.00452	0.00267	J	0.00404
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00539	ND	U	0.00517	ND	U	0.00502	ND	U	0.00613	ND	U	0.00544	ND	U	0.00713	ND	U	0.00565	ND	U	0.00504
	NAPHTHALENE	0.0713	43.0	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	N-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	N-PROPYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	O-XYLENE	3.13	898	ND	U	0.00216	ND	U	0.00207	0.000702	J	0.00201	ND	U	0.00245	0.000211	J	0.00218	ND	U	0.00285	ND	U	0.00226	0.000705	J	0.00202

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP141			DP141			DP141			DP141			DP141			DP142			DP142			DP142		
		SAMPLE NO		FFOR0786			FFOR0787			FFOR0788			FFOR0789			FFOR0790			FFOR0791			FFOR0792			FFOR0793		
		SAMPLE DATE		11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	STYRENE	27.7	7,280	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TOLUENE	25.3	5,270	0.00109	J	0.00216	0.000971	J	0.00207	0.00455		0.00201	0.000884	J	0.00245	0.00175	J	0.00218	0.00106	J	0.00285	0.000714	J	0.00226	0.00402		0.00202
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	VINYL ACETATE	1.52	2,560	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00216	ND	U	0.00207	ND	U	0.00201	ND	U	0.00245	ND	U	0.00218	ND	U	0.00285	ND	U	0.00226	ND	U	0.00202
	XYLENES	3.13	814	ND	U	0.00647	ND	U	0.00621	0.00348	J	0.00602	ND	U	0.00736	0.000966	J	0.00653	0.000654	J	0.00855	ND	U	0.00678	0.00338	J	0.00605
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.74	J	0.65	6.89	J	0.65	8.22	J-	0.68	5.6		0.66	4.73		0.65	6.78		0.67	4.65		0.65	8.64		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP142			DP142			DP143			DP143			DP143			DP143			DP143			DP143			DP143		
		SAMPLE NO		FFOR0794			FFOR0795			FFOR0796			FFOR0797			FFOR0798			FFOR0799			FFOR0800			FFOR0801				
		SAMPLE DATE		10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG				
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.35	ND	U	4.2	ND	U	4.38	ND	U	4.39	ND	U	4.61	ND	U	4.47	ND	U	4.4	ND	U	4.29		
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.68	ND	U	5.57	ND	U	5.82	ND	U	6.68	ND	U	5.53	ND	U	5.82	ND	U	6.27	ND	U	4.95		
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2-CHLOROPHENOL	2.31	391	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	2-NITROPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.723	ND	U	0.698	ND	U	0.722	ND	U	0.713	ND	U	0.772	ND	U	0.734	ND	U	0.733	ND	U	0.707		
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	4-CHLOROANILINE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77		
	ACENAPHTHENE	338	3,440	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	ACENAPHTHYLENE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	ANTHRACENE	5,410	17,200	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZENAMINE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	CARBAZOLE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	CHRYSENE	160	147	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DIBENZOFURAN	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DIETHYL PHTHALATE	193	48,900	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	FLUORANTHENE	2,430	2,290	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	FLUORENE	406	2,290	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	ISOPHORONE	3.84	5,120	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	NAPHTHALENE	0.0713	43.0	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	NITROBENZENE	0.0125	53.5	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354		

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP142			DP142			DP143			DP143			DP143			DP143			DP143			DP143		
		SAMPLE NO		FFOR0794			FFOR0795			FFOR0796			FFOR0797			FFOR0798			FFOR0799			FFOR0800			FFOR0801		
		SAMPLE DATE		10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.75	ND	U	1.81	ND	U	1.78	ND	U	1.93	ND	U	1.83	ND	U	1.83	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.362	ND	U	0.349	ND	U	0.361	ND	U	0.356	ND	U	0.386	ND	U	0.367	ND	U	0.367	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00214	0.000177	J	0.00247	ND	U	0.00238	ND	U	0.00207	0.00101	J	0.00224	0.00113	J	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	0.000556	J	0.00224	0.000655	J	0.00214	ND	U	0.00199	ND	U	0.00199
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	1-CHLOROHEXANE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	2-BUTANONE	25.5	37,100	0.00563		0.00535	0.0051	J	0.00618	ND	U	0.00594	ND	U	0.00517	ND	U	0.00561	ND	U	0.00536	ND	U	0.00497	ND	U	0.00498
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	2-HEXANONE	NE	NE	ND	U	0.00535	ND	U	0.00618	ND	U	0.00594	ND	U	0.00517	ND	U	0.00561	ND	U	0.00536	ND	U	0.00497	ND	U	0.00498
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0267	ND	UJ	0.0309	ND	UJ	0.0297	ND	UJ	0.0258	ND	UJ	0.028	ND	UJ	0.0268	ND	UJ	0.0248	ND	UJ	0.0249
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0267	ND	U	0.0309	ND	U	0.0297	ND	U	0.0258	ND	U	0.028	ND	U	0.0268	ND	U	0.0248	ND	U	0.0249
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00535	ND	U	0.00618	ND	U	0.00594	ND	U	0.00517	ND	U	0.00561	ND	U	0.00536	ND	U	0.00497	ND	U	0.00498
	ACETONE	77.1	66,600	0.0196	J	0.0267	0.0207	J	0.0309	0.0146	J	0.0297	0.0103	J	0.0258	0.0127	J	0.028	0.00981	J	0.0268	0.00884	J	0.0248	0.0168	J	0.0249
	BENZENE	0.0345	15.4	0.000265	J	0.00214	0.000529	J	0.00247	ND	U	0.00238	ND	U	0.00207	0.00331		0.00224	0.00339		0.00214	ND	U	0.00199	0.000441	J	0.00199
	BROMOBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	BROMOFORM	12.1	6,116	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	BROMOMETHANE	0.0385	16.5	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CHLOROBENZENE	0.984	376	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CHLOROETHANE	107	29,800	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CHLOROFORM	0.00918	5.86	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CHLOROMETHANE	0.879	275	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	ETHYLBENZENE	0.26	68.4	0.000391	J	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	0.000692	J	0.00224	0.000838	J	0.00214	ND	U	0.00199	ND	U	0.00199
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	M,P-XYLENES	NE	NE	ND	U	0.00428	ND	U	0.00494	ND	U	0.00475	ND	U	0.00414	0.00276	J	0.00449	0.00289	J	0.00429	ND	U	0.00397	ND	U	0.00398
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00535	ND	U	0.00618	ND	U	0.00594	ND	U	0.00517	ND	U	0.00561	ND	U	0.00536	ND	U	0.00497	ND	U	0.00498
	NAPHTHALENE	0.0713	43.0	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	N-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	N-PROPYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	O-XYLENE	3.13	898	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	0.000697	J	0.00224	0.000791	J	0.00214	ND	U	0.00199	ND	U	0.00199

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		LOCATION CODE		DP142			DP142			DP143			DP143			DP143			DP143			DP143			DP143		
		SAMPLE NO		FFOR0794			FFOR0795			FFOR0796			FFOR0797			FFOR0798			FFOR0799			FFOR0800			FFOR0801		
		SAMPLE DATE		10-Apr-12			10-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12			11-Apr-12		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	STYRENE	27.7	7,280	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TOLUENE	25.3	5,270	0.00112	J	0.00214	0.00142	J	0.00247	ND	U	0.00238	ND	U	0.00207	0.00448		0.00224	0.00466		0.00214	ND	U	0.00199	0.000834	J	0.00199
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	VINYL ACETATE	1.52	2,560	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00214	ND	U	0.00247	ND	U	0.00238	ND	U	0.00207	ND	U	0.00224	ND	U	0.00214	ND	U	0.00199	ND	U	0.00199
	XYLENES	3.13	814	ND	U	0.00642	ND	U	0.00741	ND	U	0.00713	ND	U	0.0062	0.00345	J	0.00673	0.00368	J	0.00643	ND	U	0.00596	ND	U	0.00597
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.2		0.66	4.33		0.63	3.65		0.66	4.72		0.65	8.42		0.7	8.21		0.67	4.98		0.67	4.2		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP144			DP144			DP144			DP144			DP144			DP157			DP157			DP157		
			SAMPLE NO	FFOR0802			FFOR0803			FFOR0804			FFOR0805			FFOR0806			FFOR0874			FFOR0875			FFOR0876		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 RD			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	9.31		4.34	1.56	J	4.36	7.41		4.47	ND	U	4.36	ND	U	4.2	68.8		8.27	1.46	J	4.3	2.38	J	4.74
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.37	ND	U	5.79	ND	U	6.43	ND	U	6.49	ND	U	5.84	ND	U	6.04	ND	U	5	ND	U	5.76
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	UJ	0.345	ND	U	0.36	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.0519	J	0.345	ND	U	0.36	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.717	ND	U	0.733	ND	U	0.714	ND	U	0.688	ND	U	0.689	ND	U	0.721	ND	U	0.772
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.158	J	0.345	ND	U	0.36	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	ANTHRACENE	5,410	17,200	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.189	J	0.345	ND	U	0.36	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.433		0.345	ND	U	0.36	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	**0.443**		0.345	ND	U	0.36	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.508		0.345	ND	U	0.36	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.596		0.345	ND	U	0.36	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.241	J	0.345	ND	U	0.36	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.0874	J	0.345	ND	U	0.36	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.125	J	0.345	ND	U	0.36	ND	U	0.386
	CHRYSENE	160	147	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.522		0.345	ND	U	0.36	ND	U	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.118	J	0.345	ND	U	0.36	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.0798	J	0.345	ND	U	0.36	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	FLUORANTHENE	2,430	2,290	0.0294	J	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	1.2		0.345	ND	U	0.36	ND	U	0.386
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.111	J	0.345	ND	U	0.36	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.428		0.345	ND	U	0.36	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	**0.15**	J	0.345	ND	U	0.36	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP144			DP144			DP144			DP144			DP144			DP157			DP157			DP157		
			SAMPLE NO	FFOR0802			FFOR0803			FFOR0804			FFOR0805			FFOR0806			FFOR0874			FFOR0875			FFOR0876		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 RD			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.79	ND	U	1.72	ND	U	1.72	ND	U	1.8	ND	U	1.93
	PHENANTHRENE	571	1,830	0.0192	J	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	0.981		0.345	ND	U	0.36	ND	U	0.386
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
	PYRENE	1,790	1,720	0.0356	J	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	1		0.345	ND	U	0.36	ND	U	0.386
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.359	ND	U	0.366	ND	U	0.357	ND	U	0.344	ND	U	0.345	ND	U	0.36	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000193	J	0.0024	0.000193	J	0.00228	0.000523	J	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	0.00142	J	0.00204
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	0.000267	J	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	0.000945	J	0.00204
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	1-CHLOROHEXANE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	2-BUTANONE	25.5	37,100	0.00578	J	0.00601	0.00308	J	0.00569	0.00308	J	0.0063	0.00553	J	0.00598	0.00454	J	0.00511	ND	U	0.00659	ND	U	0.00472	ND	U	0.00511
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	2-HEXANONE	NE	NE	ND	U	0.00601	ND	U	0.00569	ND	U	0.0063	ND	U	0.00598	ND	U	0.00511	ND	U	0.00659	ND	U	0.00472	ND	U	0.00511
	2-PROPENAL	0.000146	0.404	ND	UJ	0.03	ND	UJ	0.0285	ND	UJ	0.0315	ND	UJ	0.0299	ND	UJ	0.0255	ND	UJ	0.0329	ND	UJ	0.0236	ND	UJ	0.0255
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.03	ND	U	0.0285	ND	U	0.0315	ND	U	0.0299	ND	U	0.0255	ND	U	0.0329	ND	U	0.0236	ND	U	0.0255
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00601	ND	U	0.00569	ND	U	0.0063	ND	U	0.00598	ND	U	0.00511	ND	U	0.00659	ND	U	0.00472	ND	U	0.00511
	ACETONE	77.1	66,600	0.0277	J	0.03	0.0217	J	0.0285	0.0124	J	0.0315	0.024	J	0.0299	0.0175	J	0.0255	ND	U	0.0329	ND	U	0.0236	ND	U	0.0255
	BENZENE	0.0345	15.4	0.000531	J	0.0024	0.000387	J	0.00228	0.00141	J	0.00252	ND	U	0.00239	ND	U	0.00204	0.000752	J	0.00263	0.000544	J	0.00189	0.00378		0.00204
	BROMOBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	BROMOFORM	12.1	6,116	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	BROMOMETHANE	0.0385	16.5	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CHLOROBENZENE	0.984	376	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CHLOROETHANE	107	29,800	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CHLOROFORM	0.00918	5.86	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CHLOROMETHANE	0.879	275	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	ETHYLBENZENE	0.26	68.4	ND	U	0.0024	ND	U	0.00228	0.000444	J	0.00252	ND	U	0.00239	ND	U	0.00204	0.000297	J	0.00263	0.000459	J	0.00189	0.000871	J	0.00204
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	M,P-XYLENES	NE	NE	0.000483	J	0.0048	ND	U	0.00455	0.00142	J	0.00504	ND	U	0.00478	ND	U	0.00409	0.000489	J	0.00527	0.000373	J	0.00378	0.00332	J	0.00409
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00601	ND	U	0.00569	ND	U	0.0063	ND	U	0.00598	ND	U	0.00511	ND	UJ	0.00659	ND	UJ	0.00472	ND	UJ	0.00511
	NAPHTHALENE	0.0713	43.0	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	0.00638		0.00263	ND	U	0.00189	ND	U	0.00204
	N-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	N-PROPYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	O-XYLENE	3.13	898	ND	U	0.0024	ND	U	0.00228	0.000397	J	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	0.00086	J	0.00204

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP144			DP144			DP144			DP144			DP144			DP157			DP157			DP157		
			SAMPLE NO	FFOR0802			FFOR0803			FFOR0804			FFOR0805			FFOR0806			FFOR0874			FFOR0875			FFOR0876		
			SAMPLE DATE	10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			10-Apr-12			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 RD			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	STYRENE	27.7	7,280	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TOLUENE	25.3	5,270	0.00106	J	0.0024	0.000792	J	0.00228	0.00239	J	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	0.0052		0.00204
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	VINYL ACETATE	1.52	2,560	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0024	ND	U	0.00228	ND	U	0.00252	ND	U	0.00239	ND	U	0.00204	ND	U	0.00263	ND	U	0.00189	ND	U	0.00204
	XYLENES	3.13	814	ND	U	0.00721	ND	U	0.00683	0.00183	J	0.00756	ND	U	0.00717	ND	U	0.00613	ND	U	0.0079	ND	U	0.00567	0.00418	J	0.00613
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	11		0.66	5.48		0.66	6.26		0.67	6.45		0.66	4.51		0.63	17.2		0.63	3.54		0.65	6.07		0.71

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP157			DP157			DP157			DP158			DP158			DP158			DP158			DP158		
			SAMPLE NO	FFOR0877			FFOR0878			FFOR0879			FFOR0880			FFOR0881			FFOR0882			FFOR0883			FFOR0884		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.66	1.71	J	4.44	ND	U	4.42	2.61	J	4.1	ND	U	4.26	ND	U	4.45	ND	U	4.36	ND	U	4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.44	ND	U	4.73	ND	U	5.35	ND	U	5.2	ND	U	6.13	ND	U	6.11	ND	U	4.73	ND	U	5.33
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.756	ND	U	0.738	ND	U	0.729	ND	U	0.683	ND	U	0.709	ND	U	0.732	ND	U	0.721	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.378	ND	U	0.369	ND	U	0.365	0.587		0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	0.0886	J	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	FLUORANTHENE	2,430	2,290	0.0128	J	0.378	0.0116	J	0.369	0.013	J	0.365	0.013	J	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP157			DP157			DP157			DP158			DP158			DP158			DP158			DP158		
			SAMPLE NO	FFOR0877			FFOR0878			FFOR0879			FFOR0880			FFOR0881			FFOR0882			FFOR0883			FFOR0884		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.89	ND	U	1.84	ND	U	1.82	ND	U	1.71	ND	U	1.77	ND	U	1.83	ND	U	1.8	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.378	0.0142	J	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.378	ND	U	0.369	ND	U	0.365	ND	U	0.341	ND	U	0.355	ND	U	0.366	ND	U	0.361	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00072	J	0.00235	0.000816	J	0.00205	0.000524	J	0.0019	ND	U	0.002	0.000127	J	0.00199	0.000767	J	0.00218	ND	U	0.00238	0.000701	J	0.00202
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000401	J	0.00235	0.000505	J	0.00205	0.000279	J	0.0019	ND	U	0.002	ND	U	0.00199	0.000453	J	0.00218	ND	U	0.00238	0.00043	J	0.00202
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	1-CHLOROHEXANE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	2-BUTANONE	25.5	37,100	ND	U	0.00587	ND	U	0.00512	ND	U	0.00476	ND	U	0.005	ND	U	0.00497	ND	U	0.00546	ND	U	0.00594	ND	U	0.00504
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	2-HEXANONE	NE	NE	ND	U	0.00587	ND	U	0.00512	ND	U	0.00476	ND	U	0.005	ND	U	0.00497	ND	U	0.00546	ND	U	0.00594	ND	U	0.00504
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0293	ND	UJ	0.0256	ND	UJ	0.0238	ND	UJ	0.025	ND	UJ	0.0248	ND	UJ	0.0273	ND	UJ	0.0297	ND	UJ	0.0252
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0293	ND	U	0.0256	ND	U	0.0238	ND	U	0.025	ND	U	0.0248	ND	U	0.0273	ND	U	0.0297	ND	U	0.0252
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00587	ND	U	0.00512	ND	U	0.00476	ND	U	0.005	ND	U	0.00497	ND	U	0.00546	ND	U	0.00594	ND	U	0.00504
	ACETONE	77.1	66,600	ND	U	0.0293	ND	U	0.0256	ND	U	0.0238	ND	U	0.025	ND	U	0.0248	ND	U	0.0273	ND	U	0.0297	ND	U	0.0252
	BENZENE	0.0345	15.4	0.00229	J	0.00235	0.00316		0.00205	0.00141	J	0.0019	0.000399	J	0.002	0.000475	J	0.00199	0.00245		0.00218	0.00028	J	0.00238	0.00219		0.00202
	BROMOBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	BROMOFORM	12.1	6,116	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	BROMOMETHANE	0.0385	16.5	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CHLOROBENZENE	0.984	376	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CHLOROETHANE	107	29,800	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CHLOROFORM	0.00918	5.86	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CHLOROMETHANE	0.879	275	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	ETHYLBENZENE	0.26	68.4	0.000447	J	0.00235	0.000813	J	0.00205	0.000418	J	0.0019	ND	U	0.002	0.000381	J	0.00199	0.000797	J	0.00218	0.000308	J	0.00238	0.000547	J	0.00202
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	M,P-XYLENES	NE	NE	0.00176	J	0.0047	0.00239	J	0.00409	0.00119	J	0.0038	ND	U	0.004	0.000406	J	0.00397	0.00199	J	0.00437	ND	U	0.00475	0.00181	J	0.00404
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00587	ND	UJ	0.00512	ND	UJ	0.00476	ND	UJ	0.005	ND	UJ	0.00497	ND	UJ	0.00546	ND	UJ	0.00594	ND	UJ	0.00504
	NAPHTHALENE	0.0713	43.0	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	N-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	N-PROPYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	O-XYLENE	3.13	898	0.000396	J	0.00235	0.000617	J	0.00205	0.000345	J	0.0019	ND	U	0.002	ND	U	0.00199	0.000542	J	0.00218	ND	U	0.00238	0.000469	J	0.00202

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP157			DP157			DP157			DP158			DP158			DP158			DP158			DP158		
		SAMPLE NO		FFOR0877			FFOR0878			FFOR0879			FFOR0880			FFOR0881			FFOR0882			FFOR0883			FFOR0884		
		SAMPLE DATE		17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	STYRENE	27.7	7,280	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TOLUENE	25.3	5,270	0.00275		0.00235	0.0042		0.00205	0.00212		0.0019	ND	U	0.002	ND	U	0.00199	0.00359		0.00218	ND	U	0.00238	0.00308		0.00202
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	VINYL ACETATE	1.52	2,560	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00235	ND	U	0.00205	ND	U	0.0019	ND	U	0.002	ND	U	0.00199	ND	U	0.00218	ND	U	0.00238	ND	U	0.00202
	XYLENES	3.13	814	0.00215	J	0.00704	0.00301	J	0.00614	0.00154	J	0.00571	ND	U	0.006	ND	U	0.00596	0.00253	J	0.00655	ND	U	0.00713	0.00227	J	0.00605
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.1		0.7	6.15		0.67	5.94		0.66	5.01		0.62	3.9		0.64	8.18		0.67	5.18		0.65	5.16		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP159			DP159			DP159			DP159			DP159			DP159			DP160			DP160		
			SAMPLE NO	FFOR0885			FFOR0886			FFOR0887			FFOR0888			FFOR0889			FFOR0890			FFOR0891			FFOR0892		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.25	ND	U	4.2	ND	U	4.39	ND	U	4.28	ND	U	4.21	ND	U	4.19	ND	U	4.37	ND	U	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.54	ND	U	5.29	ND	U	5.66	ND	U	6.05	ND	U	5.41	ND	U	5.57	ND	U	6.18	ND	U	5.41
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	UJ	0.345	ND	UJ	0.357	ND	UJ	0.356
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.702	ND	U	0.701	ND	U	0.729	ND	U	0.704	ND	U	0.693	ND	U	0.69	ND	U	0.714	ND	U	0.711
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.35	ND	UJ	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	0.0148	J	0.356
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP159			DP159			DP159			DP159			DP159			DP159			DP160			DP160		
			SAMPLE NO	FFOR0885			FFOR0886			FFOR0887			FFOR0888			FFOR0889			FFOR0890			FFOR0891			FFOR0892		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.75	ND	U	1.82	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.79	ND	U	1.78
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.35	ND	U	0.365	ND	U	0.352	ND	U	0.346	ND	U	0.345	ND	U	0.357	ND	U	0.356
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000191	J	0.00197	ND	U	0.00292	0.00147	J	0.00227	0.000362	J	0.00252	0.000336	J	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000163	J	0.00197	ND	U	0.00292	0.000946	J	0.00227	0.000228	J	0.00252	0.000201	J	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	1-CHLOROHEXANE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	2-BUTANONE	25.5	37,100	ND	U	0.00491	ND	U	0.00731	ND	U	0.00568	ND	U	0.00631	ND	U	0.00698	ND	U	0.00535	ND	U	0.0064	ND	U	0.00575
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	2-HEXANONE	NE	NE	ND	U	0.00491	ND	U	0.00731	ND	U	0.00568	ND	U	0.00631	ND	U	0.00698	ND	U	0.00535	ND	U	0.0064	ND	U	0.00575
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0246	ND	UJ	0.0366	ND	UJ	0.0284	ND	UJ	0.0315	ND	UJ	0.0349	ND	UJ	0.0267	ND	UJ	0.032	ND	UJ	0.0288
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0246	ND	U	0.0366	ND	U	0.0284	ND	U	0.0315	ND	U	0.0349	ND	U	0.0267	ND	U	0.032	ND	U	0.0288
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00491	ND	U	0.00731	ND	U	0.00568	ND	U	0.00631	ND	U	0.00698	ND	U	0.00535	ND	U	0.0064	ND	U	0.00575
	ACETONE	77.1	66,600	ND	U	0.0246	ND	U	0.0366	ND	U	0.0284	ND	U	0.0315	ND	U	0.0349	ND	U	0.0267	ND	U	0.032	ND	U	0.0288
	BENZENE	0.0345	15.4	ND	U	0.00197	ND	U	0.00292	0.00404		0.00227	0.00137	J	0.00252	0.00116	J	0.00279	0.00056	J	0.00214	ND	U	0.00256	ND	U	0.0023
	BROMOBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	BROMOFORM	12.1	6,116	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	BROMOMETHANE	0.0385	16.5	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CHLOROBENZENE	0.984	376	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CHLOROETHANE	107	29,800	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CHLOROFORM	0.00918	5.86	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CHLOROMETHANE	0.879	275	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	ETHYLBENZENE	0.26	68.4	ND	U	0.00197	ND	U	0.00292	0.00137	J	0.00227	0.000568	J	0.00252	0.000396	J	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	M,P-XYLENES	NE	NE	ND	U	0.00393	ND	U	0.00585	0.00405	J	0.00454	0.00108	J	0.00505	0.000922	J	0.00559	ND	U	0.00428	ND	U	0.00512	ND	U	0.0046
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00491	ND	UJ	0.00731	ND	U	0.00568	ND	U	0.00631	ND	U	0.00698	ND	U	0.00535	ND	U	0.0064	ND	U	0.00575
	NAPHTHALENE	0.0713	43.0	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	N-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	UJ	0.00227	ND	UJ	0.00252	ND	UJ	0.00279	ND	UJ	0.00214	ND	UJ	0.00256	ND	UJ	0.0023
	N-PROPYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	O-XYLENE	3.13	898	ND	U	0.00197	ND	U	0.00292	0.00107	J	0.00227	0.000349	J	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP159			DP159			DP159			DP159			DP159			DP159			DP160			DP160		
			SAMPLE NO	FFOR0885			FFOR0886			FFOR0887			FFOR0888			FFOR0889			FFOR0890			FFOR0891			FFOR0892		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	UJ	0.00227	ND	UJ	0.00252	ND	UJ	0.00279	ND	UJ	0.00214	ND	UJ	0.00256	ND	UJ	0.0023
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	STYRENE	27.7	7,280	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TOLUENE	25.3	5,270	ND	U	0.00197	ND	U	0.00292	0.00603	J-	0.00227	0.0021	J	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	VINYL ACETATE	1.52	2,560	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00197	ND	U	0.00292	ND	U	0.00227	ND	U	0.00252	ND	U	0.00279	ND	U	0.00214	ND	U	0.00256	ND	U	0.0023
	XYLENES	3.13	814	ND	U	0.0059	ND	U	0.00877	0.00511	J	0.00682	0.00143	J	0.00757	0.000922	J	0.00838	ND	U	0.00641	ND	U	0.00768	ND	U	0.0069
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.41		0.64	3.84		0.64	7.07	J-	0.67	5.1		0.65	4.27		0.63	4.48		0.63	4.02		0.66	3.31		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP160			DP160			DP160			DP160			DP161			DP161			DP161			DP161		
				SAMPLE NO	FFOR0893			FFOR0894			FFOR0895			FFOR0896			FFOR0897			FFOR0898			FFOR0899			FFOR0900		
				SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
				SAMPLE DEPTH	5-5 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-5 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.24	ND	U	4.47	ND	U	4.4	ND	U	4.23	1.63	J	4.27	ND	U	4.23	ND	U	4.27	ND	U	4.41
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.59	ND	U	5.28	ND	U	5.66	ND	U	4.95	ND	U	5.47	ND	U	4.35	ND	U	4.86	ND	U	5
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.346	ND	UJ	0.37	ND	UJ	0.362	ND	UJ	0.347	ND	UJ	0.348	ND	UJ	0.349	ND	UJ	0.352	ND	UJ	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.691	ND	U	0.74	ND	U	0.723	ND	U	0.694	ND	U	0.695	ND	U	0.697	ND	U	0.704	ND	U	0.728
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	0.0119	J	0.352	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	CHRYSENE	160	147	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	0.0261	J	0.352	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	0.0511	J	0.352	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP160			DP160			DP160			DP160			DP161			DP161			DP161			DP161		
			SAMPLE NO	FFOR0893			FFOR0894			FFOR0895			FFOR0896			FFOR0897			FFOR0898			FFOR0899			FFOR0900		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-5 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-5 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.85	ND	U	1.81	ND	U	1.73	ND	U	1.74	ND	U	1.74	ND	U	1.76	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	0.0452	J	0.352	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	0.0443	J	0.352	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.37	ND	U	0.362	ND	U	0.347	ND	U	0.348	ND	U	0.349	ND	U	0.352	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000153	J	0.00209	0.00133	J	0.00211	0.000138	J	0.00222	0.00032	J	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	0.0013	J	0.00215
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00209	0.000795	J	0.00211	ND	U	0.00222	0.000172	J	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	0.000777	J	0.00215
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	1-CHLOROHEXANE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	2-BUTANONE	25.5	37,100	ND	U	0.00523	ND	U	0.00529	ND	U	0.00556	ND	U	0.00566	ND	U	0.00539	ND	U	0.00476	ND	U	0.00488	ND	U	0.00536
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	2-HEXANONE	NE	NE	ND	U	0.00523	ND	U	0.00529	ND	U	0.00556	ND	U	0.00566	ND	U	0.00539	ND	U	0.00476	ND	U	0.00488	ND	U	0.00536
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0261	ND	UJ	0.0264	ND	UJ	0.0278	ND	UJ	0.0283	ND	UJ	0.027	ND	UJ	0.0238	ND	UJ	0.0244	ND	UJ	0.0268
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0261	ND	U	0.0264	ND	U	0.0278	ND	U	0.0283	ND	U	0.027	ND	U	0.0238	ND	U	0.0244	ND	U	0.0268
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00523	ND	U	0.00529	ND	U	0.00556	ND	U	0.00566	ND	U	0.00539	ND	U	0.00476	ND	U	0.00488	ND	U	0.00536
	ACETONE	77.1	66,600	ND	U	0.0261	ND	U	0.0264	ND	U	0.0278	ND	U	0.0283	ND	U	0.027	ND	U	0.0238	ND	U	0.0244	ND	U	0.0268
	BENZENE	0.0345	15.4	0.000404	J	0.00209	0.00377		0.00211	0.000642	J	0.00222	0.00166	J	0.00226	0.000135	J	0.00216	0.000164	J	0.00191	0.000249	J	0.00195	0.00369		0.00215
	BROMOBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	BROMOFORM	12.1	6,116	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	BROMOMETHANE	0.0385	16.5	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CHLOROBENZENE	0.984	376	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CHLOROETHANE	107	29,800	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CHLOROFORM	0.00918	5.86	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CHLOROMETHANE	0.879	275	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	ETHYLBENZENE	0.26	68.4	0.000429	J	0.00209	0.000945	J	0.00211	0.000537	J	0.00222	0.000556	J	0.00226	ND	U	0.00216	ND	U	0.00191	0.000284	J	0.00195	0.000944	J	0.00215
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	M,P-XYLENES	NE	NE	ND	U	0.00418	0.0036	J	0.00423	ND	U	0.00445	0.00111	J	0.00453	ND	U	0.00431	ND	U	0.00381	ND	U	0.00391	0.0038	J	0.00429
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00523	ND	U	0.00529	ND	U	0.00556	ND	U	0.00566	ND	U	0.00539	ND	U	0.00476	ND	U	0.00488	ND	U	0.00536
	NAPHTHALENE	0.0713	43.0	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	N-BUTYLBENZENE	NE	NE	ND	UJ	0.00209	ND	UJ	0.00211	ND	UJ	0.00222	ND	UJ	0.00226	ND	UJ	0.00216	ND	UJ	0.00191	ND	UJ	0.00195	ND	UJ	0.00215
	N-PROPYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	O-XYLENE	3.13	898	ND	U	0.00209	0.00094	J	0.00211	ND	U	0.00222	0.000304	J	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	0.000998	J	0.00215

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP160			DP160			DP160			DP160			DP161			DP161			DP161			DP161		
			SAMPLE NO	FFOR0893			FFOR0894			FFOR0895			FFOR0896			FFOR0897			FFOR0898			FFOR0899			FFOR0900		
			SAMPLE DATE	17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11			17-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-5 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-5 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	UJ	0.00209	ND	UJ	0.00211	ND	UJ	0.00222	ND	UJ	0.00226	ND	UJ	0.00216	ND	UJ	0.00191	ND	UJ	0.00195	ND	UJ	0.00215
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	STYRENE	27.7	7,280	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TOLUENE	25.3	5,270	ND	U	0.00209	0.00532		0.00211	ND	U	0.00222	0.00244		0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	0.00556		0.00215
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	VINYL ACETATE	1.52	2,560	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00209	ND	U	0.00211	ND	U	0.00222	ND	U	0.00226	ND	U	0.00216	ND	U	0.00191	ND	U	0.00195	ND	U	0.00215
	XYLENES	3.13	814	ND	U	0.00628	0.00454	J	0.00634	ND	U	0.00667	0.00142	J	0.00679	ND	U	0.00647	ND	U	0.00572	ND	U	0.00586	0.00479	J	0.00644
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.89		0.64	6.97		0.67	5.3		0.66	4.6		0.64	4.36		0.64	3.87		0.64	3.53		0.64	7.22	J-	0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP161			DP161			DP162			DP162			DP162			DP162			DP162			DP167		
			SAMPLE NO	FFOR0901			FFOR0902			FFOR0903			FFOR0904			FFOR0905			FFOR0906			FFOR0907			FFOR0930		
			SAMPLE DATE	17-Aug-11			17-Aug-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.23	ND	U	4.15	3.22	J	4.54	ND	U	4.65	1.74	J	4.26	2.69	J	4.41	ND	U	4.49	3.1	J	4.25
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.82	ND	U	5.23	ND	U	6.44	ND	U	6.87	ND	U	6.66	ND	U	5.75	ND	U	6.54	ND	U	5.58
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.349	ND	UJ	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.698	ND	U	0.687	ND	U	0.737	ND	U	0.759	ND	U	0.703	ND	U	0.739	ND	U	0.741	ND	U	0.701
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	ANTHRACENE	5,410	17,200	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	CHRYSENE	160	147	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	FLUORANTHENE	2,430	2,290	ND	U	0.349	ND	U	0.343	ND	U	0.369	0.0304	J	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP161			DP161			DP162			DP162			DP162			DP162			DP162			DP167		
			SAMPLE NO	FFOR0901			FFOR0902			FFOR0903			FFOR0904			FFOR0905			FFOR0906			FFOR0907			FFOR0930		
			SAMPLE DATE	17-Aug-11			17-Aug-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.72	ND	U	1.84	ND	U	1.9	ND	U	1.76	ND	U	1.85	ND	U	1.85	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.349	ND	U	0.343	ND	U	0.369	0.0167	J	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	PYRENE	1,790	1,720	ND	U	0.349	ND	U	0.343	ND	U	0.369	0.0218	J	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.343	ND	U	0.369	ND	U	0.38	ND	U	0.352	ND	U	0.37	ND	U	0.37	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000417	J	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	0.000342	J	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000235	J	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	0.000168	J	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	2-BUTANONE	25.5	37,100	ND	U	0.00504	ND	U	0.00482	ND	U	0.00581	ND	U	0.00583	0.0028	J	0.00732	ND	U	0.00597	0.00108	J	0.00703	ND	U	0.00499
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	2-HEXANONE	NE	NE	ND	U	0.00504	ND	U	0.00482	ND	U	0.00581	ND	U	0.00583	ND	U	0.00732	ND	U	0.00597	ND	U	0.00703	ND	U	0.00499
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0252	ND	UJ	0.0241	ND	U	0.029	ND	U	0.0292	ND	U	0.0366	ND	U	0.0299	ND	U	0.0352	ND	UJ	0.025
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0252	ND	U	0.0241	ND	U	0.029	ND	U	0.0292	ND	U	0.0366	ND	U	0.0299	ND	U	0.0352	ND	U	0.025
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00504	ND	U	0.00482	ND	U	0.00581	ND	U	0.00583	ND	U	0.00732	ND	U	0.00597	ND	U	0.00703	ND	U	0.00499
	ACETONE	77.1	66,600	ND	U	0.0252	ND	U	0.0241	0.0264	J	0.029	0.015	J	0.0292	0.0451		0.0366	0.0121	J	0.0299	0.0168	J	0.0352	0.00844	J	0.025
	BENZENE	0.0345	15.4	0.00159	J	0.00202	0.000326	J	0.00193	ND	U	0.00232	ND	U	0.00233	0.00106	J	0.00293	ND	U	0.00239	0.00137	J	0.00281	ND	U	0.002
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	BROMOMETHANE	0.0385	16.5	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CHLOROFORM	0.00918	5.86	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	ETHYLBENZENE	0.26	68.4	0.000717	J	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	M,P-XYLENES	NE	NE	0.0014	J	0.00403	ND	U	0.00386	ND	U	0.00465	ND	U	0.00467	ND	U	0.00586	ND	U	0.00478	ND	U	0.00562	ND	U	0.00399
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00504	ND	UJ	0.00482	ND	U	0.00581	ND	U	0.00583	ND	U	0.00732	ND	U	0.00597	ND	U	0.00703	ND	U	0.00499
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	0.00731		0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	O-XYLENE	3.13	898	0.000354	J	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002

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		LOCATION CODE		DP161			DP161			DP162			DP162			DP162			DP162			DP162			DP167		
		SAMPLE NO		FFOR0901			FFOR0902			FFOR0903			FFOR0904			FFOR0905			FFOR0906			FFOR0907			FFOR0930		
		SAMPLE DATE		17-Aug-11			17-Aug-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			16-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TOLUENE	25.3	5,270	0.00257		0.00202	ND	U	0.00193	ND	U	0.00232	0.000645	J	0.00233	0.00173	J	0.00293	ND	U	0.00239	0.00132	J	0.00281	ND	U	0.002
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	U	0.00193	ND	UJ	0.00232	ND	UJ	0.00233	ND	UJ	0.00293	ND	UJ	0.00239	ND	UJ	0.00281	ND	U	0.002
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.00193	ND	U	0.00232	ND	U	0.00233	ND	U	0.00293	ND	U	0.00239	ND	U	0.00281	ND	U	0.002
	XYLENES	3.13	814	0.00175	J	0.00605	ND	U	0.00579	ND	U	0.00697	ND	U	0.007	ND	U	0.00878	ND	U	0.00716	ND	U	0.00844	ND	U	0.00599
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.79		0.64	4.69		0.62	10.4		0.68	3.71		0.7	4.56		0.64	4.2		0.67	5.44		0.67	3.63		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP167			DP167			DP167			DP167			DP167			DP164			DP164			DP164		
			SAMPLE NO	FFOR0931			FFOR0932			FFOR0933			FFOR0934			FFOR0935			FFOR0914			FFOR0915			FFOR0916		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.29	ND	U	4.43	ND	U	4.36	7.61		4.17	ND	U	4.31	ND	U	4.5	ND	U	4.26	ND	U	4.48
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.36	ND	U	5.35	ND	U	6.14	ND	U	4.81	ND	U	5.24	ND	U	6.08	ND	U	4.95	ND	U	4.83
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	UJ	0.371	ND	U	0.353	ND	U	0.37
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.733	ND	U	0.727	ND	U	0.686	ND	U	0.711	ND	U	0.743	ND	U	0.706	ND	U	0.741
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	0.17	J	0.37
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	FLUORANTHENE	2,430	2,290	0.0214	J	0.351	0.0174	J	0.366	0.0124	J	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP167			DP167			DP167			DP167			DP167			DP164			DP164			DP164		
			SAMPLE NO	FFOR0931			FFOR0932			FFOR0933			FFOR0934			FFOR0935			FFOR0914			FFOR0915			FFOR0916		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.83	ND	U	1.82	ND	U	1.72	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.85
	PHENANTHRENE	571	1,830	0.0157	J	0.351	0.0124	J	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	PYRENE	1,790	1,720	0.0184	J	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.363	ND	U	0.343	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.37
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000223	J	0.00206	0.000434	J	0.00196	0.000734	J	0.00284	0.00062	J	0.00175	0.000149	J	0.002	ND	U	0.00209	0.000666	J	0.00209	0.00113	J	0.00183
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000131	J	0.00206	0.000244	J	0.00196	0.00044	J	0.00284	0.000329	J	0.00175	ND	U	0.002	ND	U	0.00209	0.000407	J	0.00209	0.000581	J	0.00183
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	1-CHLOROHEXANE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	2-BUTANONE	25.5	37,100	ND	U	0.00516	ND	U	0.0049	ND	U	0.00709	ND	U	0.00437	ND	U	0.00499	ND	U	0.00522	ND	U	0.00522	ND	U	0.00458
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	2-HEXANONE	NE	NE	ND	U	0.00516	ND	U	0.0049	ND	U	0.00709	ND	U	0.00437	ND	U	0.00499	ND	U	0.00522	ND	U	0.00522	ND	U	0.00458
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0258	ND	UJ	0.0245	ND	UJ	0.0355	ND	UJ	0.0218	ND	UJ	0.0249	ND	UJ	0.0261	ND	UJ	0.0261	ND	UJ	0.0229
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0258	ND	U	0.0245	ND	U	0.0355	ND	U	0.0218	ND	U	0.0249	ND	U	0.0261	ND	U	0.0261	ND	U	0.0229
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00516	ND	U	0.0049	ND	U	0.00709	ND	U	0.00437	ND	U	0.00499	ND	U	0.00522	ND	U	0.00522	ND	U	0.00458
	ACETONE	77.1	66,600	ND	U	0.0258	ND	U	0.0245	ND	U	0.0355	ND	U	0.0218	ND	U	0.0249	ND	U	0.0261	ND	U	0.0261	ND	U	0.0229
	BENZENE	0.0345	15.4	0.00075	J	0.00206	0.00163	J	0.00196	0.0024	J	0.00284	0.00224		0.00175	0.000517	J	0.002	0.000122	J	0.00209	0.00158	J	0.00209	0.0024		0.00183
	BROMOBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	BROMOFORM	12.1	6,116	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	BROMOMETHANE	0.0385	16.5	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	UJ	0.00209	ND	U	0.00209	ND	UJ	0.00183
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CHLOROBENZENE	0.984	376	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CHLOROETHANE	107	29,800	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CHLOROFORM	0.00918	5.86	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CHLOROMETHANE	0.879	275	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	ETHYLBENZENE	0.26	68.4	0.000375	J	0.00206	0.000639	J	0.00196	0.00083	J	0.00284	0.000617	J	0.00175	0.000501	J	0.002	ND	U	0.00209	0.000335	J	0.00209	0.000607	J	0.00183
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	UJ	0.00209	ND	UJ	0.00209	ND	UJ	0.00183
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	M,P-XYLENES	NE	NE	0.000492	J	0.00413	0.00116	J	0.00392	0.00194	J	0.00568	0.00163	J	0.00349	0.000479	J	0.00399	ND	U	0.00417	0.00228	J	0.00418	0.0027	J	0.00366
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00516	ND	UJ	0.0049	ND	UJ	0.00709	ND	UJ	0.00437	ND	UJ	0.00499	ND	U	0.00522	ND	U	0.00522	ND	U	0.00458
	NAPHTHALENE	0.0713	43.0	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	N-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	N-PROPYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	O-XYLENE	3.13	898	ND	U	0.00206	0.000394	J	0.00196	0.000444	J	0.00284	0.000481	J	0.00175	ND	U	0.002	ND	U	0.00209	0.000603	J	0.00209	0.000719	J	0.00183

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP167			DP167			DP167			DP167			DP167			DP164			DP164			DP164		
			SAMPLE NO	FFOR0931			FFOR0932			FFOR0933			FFOR0934			FFOR0935			FFOR0914			FFOR0915			FFOR0916		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	STYRENE	27.7	7,280	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TOLUENE	25.3	5,270	ND	U	0.00206	0.00256		0.00196	0.00342		0.00284	0.00296		0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	VINYL ACETATE	1.52	2,560	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00206	ND	U	0.00196	ND	U	0.00284	ND	U	0.00175	ND	U	0.002	ND	U	0.00209	ND	U	0.00209	ND	U	0.00183
	XYLENES	3.13	814	0.000492	J	0.00619	0.00155	J	0.00588	0.00238	J	0.00851	0.00212	J	0.00524	0.000479	J	0.00599	ND	U	0.00626	0.00288	J	0.00626	0.00342	J	0.00549
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.12		0.65	6.64		0.66	6.6		0.66	5		0.63	2.93		0.65	2.12		1.34	2.92		0.64	6.28		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP164			DP164			DP165			DP165			DP165			DP165			DP165			DP165		
			SAMPLE NO	FFOR0917			FFOR0918			FFOR0919			FFOR0920			FFOR0921			FFOR0922			FFOR0923			FFOR0924		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.22	ND	U	4.39	3.48	J	4.33	ND	U	4.24	ND	U	4.56	ND	U	4.34	ND	U	4.49	ND	U	4.36
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.97	ND	U	6.86	ND	U	6.46	ND	U	5.32	ND	U	4.69	ND	U	5.21	ND	U	5.34	ND	U	4.72
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.701	ND	U	0.713	ND	U	0.721	ND	U	0.692	ND	U	0.75	ND	U	0.72	ND	U	0.745	ND	U	0.71
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.356	0.014	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.356	0.0535	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.356	0.0339	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.356	0.0378	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.356	0.0212	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.356	0.0286	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.356	0.083	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.356	0.0881	J	0.361	0.0187	J	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP164			DP164			DP165			DP165			DP165			DP165			DP165			DP165		
			SAMPLE NO	FFOR0917			FFOR0918			FFOR0919			FFOR0920			FFOR0921			FFOR0922			FFOR0923			FFOR0924		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.73	ND	U	1.87	ND	U	1.8	ND	U	1.86	ND	U	1.78
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.356	0.0473	J	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.356	0.109	J	0.361	0.0191	J	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.361	ND	U	0.346	ND	U	0.375	ND	U	0.36	ND	U	0.373	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000129	J	0.00168	0.000147	J	0.00183	ND	U	0.002	0.000173	J	0.00187	0.00122	J	0.00202	ND	U	0.00197	ND	U	0.00243	0.000242	J	0.00201
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	0.000653	J	0.00202	ND	U	0.00197	ND	U	0.00243	0.000131	J	0.00201
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	1-CHLOROHEXANE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	2-BUTANONE	25.5	37,100	ND	U	0.0042	ND	U	0.00458	ND	U	0.005	ND	U	0.00469	ND	U	0.00504	ND	U	0.00493	ND	U	0.00608	ND	U	0.00503
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	2-HEXANONE	NE	NE	ND	U	0.0042	ND	U	0.00458	ND	U	0.005	ND	U	0.00469	ND	U	0.00504	ND	U	0.00493	ND	U	0.00608	ND	U	0.00503
	2-PROPENAL	0.000146	0.404	ND	UJ	0.021	ND	UJ	0.0229	ND	UJ	0.025	ND	UJ	0.0234	ND	UJ	0.0252	ND	UJ	0.0246	ND	UJ	0.0304	ND	UJ	0.0251
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.021	ND	U	0.0229	ND	U	0.025	ND	U	0.0234	ND	U	0.0252	ND	U	0.0246	ND	U	0.0304	ND	U	0.0251
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0042	ND	U	0.00458	ND	U	0.005	ND	U	0.00469	ND	U	0.00504	ND	U	0.00493	ND	U	0.00608	ND	U	0.00503
	ACETONE	77.1	66,600	ND	U	0.021	ND	U	0.0229	ND	U	0.025	0.0168	J	0.0234	0.0111	J	0.0252	0.0287		0.0246	0.0218	J	0.0304	0.00897	J	0.0251
	BENZENE	0.0345	15.4	0.000242	J	0.00168	0.000653	J	0.00183	0.000125	J	0.002	0.000444	J	0.00187	0.00309		0.00202	0.000289	J	0.00197	0.00029	J	0.00243	0.000814	J	0.00201
	BROMOBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	BROMOFORM	12.1	6,116	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00168	ND	UJ	0.00183	ND	UJ	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CHLOROBENZENE	0.984	376	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CHLOROETHANE	107	29,800	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CHLOROFORM	0.00918	5.86	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CHLOROMETHANE	0.879	275	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	ETHYLBENZENE	0.26	68.4	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	0.000384	J	0.00187	0.000776	J	0.00202	0.000252	J	0.00197	ND	U	0.00243	0.000299	J	0.00201
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00168	ND	UJ	0.00183	ND	UJ	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	M,P-XYLENES	NE	NE	ND	U	0.00336	0.000477	J	0.00367	ND	U	0.004	0.000496	J	0.00375	0.00293	J	0.00403	ND	U	0.00394	ND	U	0.00487	0.00066	J	0.00402
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0042	ND	U	0.00458	ND	U	0.005	ND	U	0.00469	ND	U	0.00504	ND	U	0.00493	ND	U	0.00608	ND	U	0.00503
	NAPHTHALENE	0.0713	43.0	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	N-BUTYLBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	N-PROPYLBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	O-XYLENE	3.13	898	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	0.00089	J	0.00202	ND	U	0.00197	ND	U	0.00243	0.000149	J	0.00201

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP164			DP164			DP165			DP165			DP165			DP165			DP165			DP165		
			SAMPLE NO	FFOR0917			FFOR0918			FFOR0919			FFOR0920			FFOR0921			FFOR0922			FFOR0923			FFOR0924		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	STYRENE	27.7	7,280	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TOLUENE	25.3	5,270	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	0.00444		0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	VINYL ACETATE	1.52	2,560	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00168	ND	U	0.00183	ND	U	0.002	ND	U	0.00187	ND	U	0.00202	ND	U	0.00197	ND	U	0.00243	ND	U	0.00201
	XYLENES	3.13	814	ND	U	0.00504	0.000606	J	0.0055	ND	U	0.006	0.000557	J	0.00562	0.00382	J	0.00605	ND	U	0.00591	ND	U	0.0073	0.000807	J	0.00603
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.05		0.64	3.87		0.66	3.75	J-	0.66	2.89		0.64	5.78		0.68	4.69		0.65	4.82		0.68	5.02		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP166			DP166			DP166			DP166			DP166			DP163			DP163			DP163		
		SAMPLE NO		FFOR0925			FFOR0926			FFOR0927			FFOR0928			FFOR0929			FFOR0908			FFOR0909			FFOR0910		
		SAMPLE DATE		16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.43	ND	U	4.34	ND	U	4.54	ND	U	4.38	ND	U	4.32	1.84	J	4.45	ND	U	4.31	ND	U	4.59
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.42	ND	U	4.82	ND	U	4.96	ND	U	4.32	ND	U	5.27	ND	U	7.42	ND	U	5.51	ND	U	6.6
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2-CHLOROPHENOL	2.31	391	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.735	ND	U	0.714	ND	U	0.75	ND	U	0.715	ND	U	0.715	ND	U	0.734	ND	U	0.704	ND	U	0.747
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	4-CHLOROANILINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	ACENAPHTHYLENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	ANTHRACENE	5,410	17,200	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.0342	J	0.367	ND	U	0.352	ND	U	0.374
	BENZENAMINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.396		0.367	ND	U	0.352	ND	U	0.374
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	**0.475**		0.367	ND	U	0.352	ND	U	0.374
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.58		0.367	ND	U	0.352	ND	U	0.374
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.523		0.367	ND	U	0.352	ND	U	0.374
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.254	J	0.367	ND	U	0.352	ND	U	0.374
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.368	ND	U	0.357	ND	U	0.375	0.0869	J	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	CARBAZOLE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	CHRYSENE	160	147	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.436		0.367	ND	U	0.352	ND	U	0.374
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.115	J	0.367	ND	U	0.352	ND	U	0.374
	DIBENZOFURAN	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	DIETHYL PHTHALATE	193	48,900	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	FLUORANTHENE	2,430	2,290	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.438		0.367	0.0229	J	0.352	ND	U	0.374
	FLUORENE	406	2,290	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.409		0.367	ND	U	0.352	ND	U	0.374
	ISOPHORONE	3.84	5,120	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	NAPHTHALENE	0.0713	43.0	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	NITROBENZENE	0.0125	53.5	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP166			DP166			DP166			DP166			DP166			DP163			DP163			DP163		
			SAMPLE NO	FFOR0925			FFOR0926			FFOR0927			FFOR0928			FFOR0929			FFOR0908			FFOR0909			FFOR0910		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.78	ND	U	1.87	ND	U	1.79	ND	U	1.79	ND	U	1.84	ND	U	1.76	ND	U	1.87
	PHENANTHRENE	571	1,830	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.115	J	0.367	0.0124	J	0.352	ND	U	0.374
	PHENOL	99.5	18,300	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
	PYRENE	1,790	1,720	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	0.441		0.367	0.0213	J	0.352	ND	U	0.374
	PYRIDINE	NE	NE	ND	U	0.368	ND	U	0.357	ND	U	0.375	ND	U	0.357	ND	U	0.358	ND	U	0.367	ND	U	0.352	ND	U	0.374
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	0.000811	J	0.00183	0.000995	J	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	0.00101	J	0.00213
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	0.000488	J	0.00183	0.000542	J	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	0.00055	J	0.00213
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	1-CHLOROHEXANE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	2-BUTANONE	25.5	37,100	ND	U	0.00538	ND	U	0.00457	ND	U	0.0056	ND	U	0.00484	ND	U	0.00839	ND	U	0.00553	ND	U	0.00503	ND	U	0.00532
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	2-HEXANONE	NE	NE	ND	U	0.00538	ND	U	0.00457	ND	U	0.0056	ND	U	0.00484	ND	U	0.00839	ND	U	0.00553	ND	U	0.00503	ND	U	0.00532
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0269	ND	UJ	0.0228	ND	UJ	0.028	ND	UJ	0.0242	ND	UJ	0.0419	ND	UJ	0.0276	ND	UJ	0.0251	ND	UJ	0.0266
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0269	ND	U	0.0228	ND	U	0.028	ND	U	0.0242	ND	U	0.0419	ND	U	0.0276	ND	U	0.0251	ND	U	0.0266
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00538	ND	U	0.00457	ND	U	0.0056	ND	U	0.00484	ND	U	0.00839	ND	U	0.00553	ND	U	0.00503	ND	U	0.00532
	ACETONE	77.1	66,600	0.00741	J	0.0269	0.00966	J	0.0228	0.00988	J	0.028	0.0109	J	0.0242	0.0221	J	0.0419	ND	U	0.0276	ND	U	0.0251	ND	U	0.0266
	BENZENE	0.0345	15.4	ND	U	0.00215	0.00225		0.00183	0.00245		0.00224	ND	U	0.00194	0.000632	J	0.00335	ND	U	0.00221	0.000159	J	0.00201	0.00274		0.00213
	BROMOBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	BROMOFORM	12.1	6,116	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	BROMOMETHANE	0.0385	16.5	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	UJ	0.00221	ND	UJ	0.00201	ND	UJ	0.00213
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CHLOROBENZENE	0.984	376	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CHLOROETHANE	107	29,800	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CHLOROFORM	0.00918	5.86	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CHLOROMETHANE	0.879	275	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	ETHYLBENZENE	0.26	68.4	ND	U	0.00215	0.000572	J	0.00183	0.000534	J	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	0.000632	J	0.00213
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	UJ	0.00221	ND	UJ	0.00201	ND	UJ	0.00213
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	M,P-XYLENES	NE	NE	ND	U	0.0043	0.00217	J	0.00365	0.00256	J	0.00448	ND	U	0.00387	ND	U	0.00671	ND	U	0.00442	ND	U	0.00402	0.00255	J	0.00426
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00538	ND	U	0.00457	ND	U	0.0056	ND	U	0.00484	ND	U	0.00839	ND	U	0.00553	ND	U	0.00503	ND	U	0.00532
	NAPHTHALENE	0.0713	43.0	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	N-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	N-PROPYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	0.000138	J	0.00213
	O-XYLENE	3.13	898	ND	U	0.00215	0.00052	J	0.00183	0.000662	J	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	0.000614	J	0.00213

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP166			DP166			DP166			DP166			DP166			DP163			DP163			DP163		
			SAMPLE NO	FFOR0925			FFOR0926			FFOR0927			FFOR0928			FFOR0929			FFOR0908			FFOR0909			FFOR0910		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11			16-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	STYRENE	27.7	7,280	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TOLUENE	25.3	5,270	ND	U	0.00215	0.00327		0.00183	0.00373		0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	VINYL ACETATE	1.52	2,560	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00215	ND	U	0.00183	ND	U	0.00224	ND	U	0.00194	ND	U	0.00335	ND	U	0.00221	ND	U	0.00201	ND	U	0.00213
	XYLENES	3.13	814	ND	U	0.00645	0.00268	J	0.00548	0.00323	J	0.00672	ND	U	0.00581	ND	U	0.0101	ND	U	0.00664	ND	U	0.00603	0.00317	J	0.00639
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	2.18		0.67	4.01		0.65	7.39		0.68	4.85		0.66	4.57	J-	0.65	2.54		0.67	2.9		0.65	6.2		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP163			DP163			DP163			DP168			DP168			DP168			DP168			DP168		
			SAMPLE NO	FFOR0911			FFOR0912			FFOR0913			FFOR0936			FFOR0937			FFOR0938			FFOR0939			FFOR0940		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.55	ND	U	4.42	ND	U	4.41	ND	U	4.31	1.63	J	4.31	ND	U	4.49	ND	U	4.17	ND	U	4.43
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.32	ND	U	7.68	ND	U	5.74	ND	U	5.5	ND	U	5.7	ND	U	4.95	ND	U	5.47	ND	U	5.22
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.751	ND	U	0.727	ND	U	0.733	ND	U	0.699	ND	U	0.711	ND	U	0.736	ND	U	0.689	ND	U	0.721
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	0.375		0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.376	ND	U	0.364	ND	U	0.366	0.0333	J	0.349	0.0222	J	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.376	ND	U	0.364	ND	U	0.366	0.021	J	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP163			DP163			DP163			DP168			DP168			DP168			DP168			DP168		
			SAMPLE NO	FFOR0911			FFOR0912			FFOR0913			FFOR0936			FFOR0937			FFOR0938			FFOR0939			FFOR0940		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.72	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.376	ND	U	0.364	ND	U	0.366	0.0113	J	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	U	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.376	ND	U	0.364	ND	U	0.366	0.022	J	0.349	ND	U	0.356	ND	U	0.368	ND	U	0.344	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.376	ND	U	0.364	ND	U	0.366	ND	UJ	0.349	ND	UJ	0.356	ND	UJ	0.368	ND	UJ	0.344	ND	UJ	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000877	J	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	0.000926	J	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000492	J	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	0.00047	J	0.00191	ND	U	0.00192	ND	U	0.00182
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.00222	0.000804	J	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	2-BUTANONE	25.5	37,100	ND	U	0.00505	ND	U	0.00554	ND	U	0.00542	ND	U	0.00857	ND	U	0.0052	ND	U	0.00478	ND	U	0.00481	ND	U	0.00456
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	2-HEXANONE	NE	NE	ND	U	0.00505	ND	U	0.00554	ND	U	0.00542	ND	U	0.00857	ND	U	0.0052	ND	U	0.00478	ND	U	0.00481	ND	U	0.00456
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0253	ND	UJ	0.0277	ND	UJ	0.0271	ND	UJ	0.0428	ND	UJ	0.026	ND	UJ	0.0239	ND	UJ	0.0241	ND	UJ	0.0228
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0253	ND	U	0.0277	ND	U	0.0271	ND	U	0.0428	ND	U	0.026	ND	U	0.0239	ND	U	0.0241	ND	U	0.0228
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00505	ND	U	0.00554	ND	U	0.00542	ND	U	0.00857	ND	U	0.0052	ND	U	0.00478	ND	U	0.00481	ND	U	0.00456
	ACETONE	77.1	66,600	ND	U	0.0253	ND	U	0.0277	ND	U	0.0271	0.00565	J	0.0428	0.00729	J	0.026	0.00288	J	0.0239	ND	U	0.0241	ND	U	0.0228
	BENZENE	0.0345	15.4	0.00219		0.00202	0.000263	J	0.00222	0.000142	J	0.00217	ND	U	0.00343	ND	U	0.00208	0.00211		0.00191	0.000274	J	0.00192	0.000132	J	0.00182
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00202	ND	UJ	0.00222	ND	UJ	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	UJ	0.00192	ND	UJ	0.00182
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CHLOROFORM	0.00918	5.86	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	ETHYLBENZENE	0.26	68.4	0.000511	J	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	0.000515	J	0.00191	ND	U	0.00192	ND	U	0.00182
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00202	ND	UJ	0.00222	ND	UJ	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	UJ	0.00192	ND	UJ	0.00182
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	M,P-XYLENES	NE	NE	0.0021	J	0.00404	ND	U	0.00443	ND	U	0.00434	ND	U	0.00686	ND	U	0.00416	0.00222	J	0.00382	ND	U	0.00385	ND	U	0.00365
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00505	ND	U	0.00554	ND	U	0.00542	ND	U	0.00857	ND	U	0.0052	ND	U	0.00478	ND	U	0.00481	ND	U	0.00456
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	O-XYLENE	3.13	898	0.000544	J	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	0.000609	J	0.00191	ND	U	0.00192	ND	U	0.00182

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP163			DP163			DP163			DP168			DP168			DP168			DP168			DP168		
			SAMPLE NO	FFOR0911			FFOR0912			FFOR0913			FFOR0936			FFOR0937			FFOR0938			FFOR0939			FFOR0940		
			SAMPLE DATE	16-Aug-11			16-Aug-11			16-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TOLUENE	25.3	5,270	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	0.000465	J	0.00343	0.000316	J	0.00208	0.00312		0.00191	ND	U	0.00192	ND	U	0.00182
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.00222	ND	U	0.00217	ND	U	0.00343	ND	U	0.00208	ND	U	0.00191	ND	U	0.00192	ND	U	0.00182
	XYLENES	3.13	814	0.00265	J	0.00606	ND	U	0.00665	ND	U	0.00651	ND	U	0.0103	ND	U	0.00624	0.00283	J	0.00573	ND	U	0.00577	ND	U	0.00547
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.87		0.68	3.48		0.66	4.04		0.67	2.56		0.65	2.96		0.65	6.86		0.67	3.1		0.63	4.12		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP169			DP169			DP169			DP169			DP169			DP169			DP170			DP170		
			SAMPLE NO	FFOR0941			FFOR0942			FFOR0943			FFOR0944			FFOR0945			FFOR0946			FFOR0947			FFOR0948		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	13		4.25	2.75	J	4.27	ND	U	4.46	ND	U	4.28	ND	U	4.34	ND	U	4.26	3.94	J	4.38	6.36		4.34
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.16	ND	U	6.63	ND	U	6.09	ND	U	6.28	ND	U	5.54	ND	U	6.34	ND	U	6.76	ND	U	5.51
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.708	ND	U	0.707	ND	U	0.732	ND	U	0.701	ND	U	0.709	ND	U	0.703	ND	U	0.716	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	0.0225	J	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	0.0491	J	0.354
	BENZENAMINE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	0.0449	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0424	J	0.358	0.148	J	0.354
	BENZO(A)PYRENE	0.52	0.148	0.044	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0342	J	0.358	0.103	J	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0519	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0413	J	0.358	0.143	J	0.354
	BENZO(GHI)PERYLENE	NE	NE	0.029	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0196	J	0.358	0.0538	J	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0258	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0236	J	0.358	0.062	J	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	0.0441	J	0.354
	CHRYSENE	160	147	0.0513	J	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.046	J	0.358	0.147	J	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	0.0368	J	0.354	0.0539	J	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	FLUORANTHENE	2,430	2,290	0.0783	J	0.354	0.0152	J	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.075	J	0.358	0.283	J	0.354
	FLUORENE	406	2,290	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	0.0206	J	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	0.0404	J	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP169			DP169			DP169			DP169			DP169			DP169			DP170			DP170		
			SAMPLE NO	FFOR0941			FFOR0942			FFOR0943			FFOR0944			FFOR0945			FFOR0946			FFOR0947			FFOR0948		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.77	ND	U	1.83	ND	U	1.75	ND	U	1.77	ND	U	1.76	ND	U	1.79	ND	U	1.77
	PHENANTHRENE	571	1,830	0.0572	J	0.354	0.014	J	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0475	J	0.358	0.215	J	0.354
	PHENOL	99.5	18,300	ND	U	0.354	ND	U	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	ND	U	0.358	ND	U	0.354
	PYRENE	1,790	1,720	0.0994	J	0.354	0.018	J	0.354	ND	U	0.366	ND	U	0.351	ND	U	0.355	ND	U	0.351	0.0794	J	0.358	0.3	J	0.354
	PYRIDINE	NE	NE	ND	UJ	0.354	ND	UJ	0.354	ND	UJ	0.366	ND	UJ	0.351	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.358	ND	UJ	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	0.00071	J	0.00201	0.000267	J	0.00309	0.000211	J	0.00196	0.000249	J	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	0.000404	J	0.00201	ND	U	0.00309	ND	U	0.00196	0.000136	J	0.00204	ND	U	0.00193	ND	U	0.00233
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	1-CHLOROHEXANE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	2-BUTANONE	25.5	37,100	0.00532		0.00516	0.0044	J	0.00478	ND	U	0.00502	0.00895		0.00773	0.00424	J	0.00489	0.00436	J	0.0051	0.00165	J	0.00483	0.00227	J	0.00583
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	2-HEXANONE	NE	NE	ND	U	0.00516	ND	U	0.00478	ND	U	0.00502	ND	U	0.00773	ND	U	0.00489	ND	U	0.0051	ND	U	0.00483	ND	U	0.00583
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0258	ND	UJ	0.0239	ND	UJ	0.0251	ND	UJ	0.0386	ND	UJ	0.0244	ND	UJ	0.0255	ND	UJ	0.0242	ND	UJ	0.0292
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0258	ND	U	0.0239	ND	U	0.0251	ND	U	0.0386	ND	U	0.0244	ND	U	0.0255	ND	U	0.0242	ND	U	0.0292
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00516	ND	U	0.00478	ND	U	0.00502	ND	U	0.00773	ND	U	0.00489	ND	U	0.0051	ND	U	0.00483	ND	U	0.00583
	ACETONE	77.1	66,600	0.0253	J	0.0258	0.0229	J	0.0239	0.00122	J	0.0251	0.0368	J	0.0386	ND	UJ	0.0244	ND	UJ	0.0255	ND	UJ	0.0242	ND	UJ	0.0292
	BENZENE	0.0345	15.4	0.00022	J	0.00206	0.000204	J	0.00191	0.00169	J	0.00201	0.000829	J	0.00309	0.000673	J	0.00196	0.000847	J	0.00204	ND	U	0.00193	ND	U	0.00233
	BROMOBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	BROMOFORM	12.1	6,116	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	BROMOMETHANE	0.0385	16.5	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CHLOROBENZENE	0.984	376	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CHLOROETHANE	107	29,800	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CHLOROFORM	0.00918	5.86	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CHLOROMETHANE	0.879	275	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	ETHYLBENZENE	0.26	68.4	ND	U	0.00206	ND	U	0.00191	0.000451	J	0.00201	0.000498	J	0.00309	0.000376	J	0.00196	0.000482	J	0.00204	ND	U	0.00193	ND	U	0.00233
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	M,P-XYLENES	NE	NE	ND	U	0.00413	ND	U	0.00382	0.00173	J	0.00401	0.000582	J	0.00618	0.000438	J	0.00391	0.000721	J	0.00408	ND	U	0.00387	ND	U	0.00466
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00516	ND	U	0.00478	ND	U	0.00502	ND	U	0.00773	ND	U	0.00489	ND	U	0.0051	ND	U	0.00483	ND	U	0.00583
	NAPHTHALENE	0.0713	43.0	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	N-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	N-PROPYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	O-XYLENE	3.13	898	ND	U	0.00206	ND	U	0.00191	0.000456	J	0.00201	ND	U	0.00309	ND	U	0.00196	0.000176	J	0.00204	ND	U	0.00193	ND	U	0.00233

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP169			DP169			DP169			DP169			DP169			DP169			DP170			DP170		
			SAMPLE NO	FFOR0941			FFOR0942			FFOR0943			FFOR0944			FFOR0945			FFOR0946			FFOR0947			FFOR0948		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	STYRENE	27.7	7,280	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TOLUENE	25.3	5,270	ND	U	0.00206	ND	U	0.00191	0.00247		0.00201	0.000905	J	0.00309	0.000927	J	0.00196	0.00126	J	0.00204	ND	U	0.00193	ND	U	0.00233
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	VINYL ACETATE	1.52	2,560	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00206	ND	U	0.00191	ND	U	0.00201	ND	U	0.00309	ND	U	0.00196	ND	U	0.00204	ND	U	0.00193	ND	U	0.00233
	XYLENES	3.13	814	ND	U	0.00619	ND	U	0.00573	0.00219	J	0.00602	ND	U	0.00927	0.000438	J	0.00587	0.000897	J	0.00611	ND	U	0.0058	ND	U	0.007
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.83		0.65	2.42		0.64	5.8	J-	0.67	3.64		0.64	4.23		0.65	5.3		0.64	3.41		0.66	3.03		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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			LOCATION CODE	DP170			DP170			DP170			DP170			DP171			DP171			DP171			DP171		
			SAMPLE NO	FFOR0949			FFOR0950			FFOR0951			FFOR0952			FFOR0953			FFOR0954			FFOR0955			FFOR0956		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.19	ND	U	4.75	ND	U	4.19	ND	U	4.34	ND	U	4.41	ND	U	4.34	ND	U	4.26	ND	U	4.63
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.08	ND	U	9.9	ND	U	4.56	ND	U	4.47	ND	U	5.1	ND	U	6.21	ND	U	5.6	ND	U	5.69
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	UJ	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2-CHLOROPHENOL	2.31	391	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.7	ND	U	0.784	ND	U	0.692	ND	U	0.717	ND	U	0.721	ND	U	0.706	ND	U	0.7	ND	U	0.756
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	4-CHLOROANILINE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	ACENAPHTHYLENE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	ANTHRACENE	5,410	17,200	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZENAMINE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	CARBAZOLE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	CHRYSENE	160	147	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DIBENZOFURAN	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DIETHYL PHTHALATE	193	48,900	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	FLUORANTHENE	2,430	2,290	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	FLUORENE	406	2,290	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	ISOPHORONE	3.84	5,120	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	NAPHTHALENE	0.0713	43.0	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	NITROBENZENE	0.0125	53.5	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP170			DP170			DP170			DP170			DP171			DP171			DP171			DP171		
			SAMPLE NO	FFOR0949			FFOR0950			FFOR0951			FFOR0952			FFOR0953			FFOR0954			FFOR0955			FFOR0956		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.96	ND	U	1.73	ND	U	1.79	ND	U	1.8	ND	U	1.77	ND	U	1.75	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	PHENOL	99.5	18,300	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	PYRENE	1,790	1,720	ND	U	0.35	ND	U	0.392	ND	U	0.346	ND	U	0.358	ND	U	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
	PYRIDINE	NE	NE	ND	UJ	0.35	ND	UJ	0.392	ND	UJ	0.346	ND	UJ	0.358	ND	UJ	0.36	ND	U	0.353	ND	U	0.35	ND	U	0.378
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	0.00113	J	0.0019	0.000142	J	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	0.000907	J	0.00218
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	0.000645	J	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	0.000507	J	0.00218
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	1-CHLOROHEXANE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	2-BUTANONE	25.5	37,100	0.00331	J	0.00509	0.00403	J	0.00475	0.0035	J	0.00469	0.00322	J	0.00524	0.00976		0.00533	0.00508	J	0.00766	0.00286	J	0.00539	ND	U	0.00545
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	2-HEXANONE	NE	NE	ND	U	0.00509	ND	U	0.00475	ND	U	0.00469	ND	U	0.00524	ND	U	0.00533	ND	U	0.00766	ND	U	0.00539	ND	U	0.00545
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0254	ND	UJ	0.0238	ND	UJ	0.0234	ND	UJ	0.0262	ND	UJ	0.0267	ND	UJ	0.0383	ND	UJ	0.0269	ND	UJ	0.0272
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0254	ND	U	0.0238	ND	U	0.0234	ND	U	0.0262	ND	U	0.0267	ND	U	0.0383	ND	U	0.0269	ND	U	0.0272
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00509	ND	U	0.00475	ND	U	0.00469	ND	U	0.00524	ND	U	0.00533	ND	U	0.00766	ND	U	0.00539	ND	U	0.00545
	ACETONE	77.1	66,600	ND	UJ	0.0254	ND	UJ	0.0238	ND	UJ	0.0234	ND	UJ	0.0262	0.0596	J	0.0267	0.033	J	0.0383	ND	UJ	0.0269	0.00124	J	0.0272
	BENZENE	0.0345	15.4	0.000191	J	0.00204	0.00335		0.0019	0.000754	J	0.00187	0.000171	J	0.00209	0.00042	J	0.00213	0.000186	J	0.00306	0.000127	J	0.00215	0.00202	J	0.00218
	BROMOBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	BROMOFORM	12.1	6,116	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	BROMOMETHANE	0.0385	16.5	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CHLOROBENZENE	0.984	376	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CHLOROETHANE	107	29,800	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CHLOROFORM	0.00918	5.86	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CHLOROMETHANE	0.879	275	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	ETHYLBENZENE	0.26	68.4	0.000401	J	0.00204	0.000783	J	0.0019	0.000217	J	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	0.000594	J	0.00218
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	M,P-XYLENES	NE	NE	ND	U	0.00407	0.00298	J	0.0038	0.000521	J	0.00375	ND	U	0.00419	ND	U	0.00427	ND	U	0.00613	ND	U	0.00431	0.00214	J	0.00436
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00509	ND	U	0.00475	ND	U	0.00469	ND	U	0.00524	ND	U	0.00533	ND	U	0.00766	ND	U	0.00539	ND	U	0.00545
	NAPHTHALENE	0.0713	43.0	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	N-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	N-PROPYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	O-XYLENE	3.13	898	ND	U	0.00204	0.00067	J	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	0.000567	J	0.00218

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			LOCATION CODE	DP170			DP170			DP170			DP170			DP171			DP171			DP171			DP171		
			SAMPLE NO	FFOR0949			FFOR0950			FFOR0951			FFOR0952			FFOR0953			FFOR0954			FFOR0955			FFOR0956		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	STYRENE	27.7	7,280	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TOLUENE	25.3	5,270	0.000275	J	0.00204	0.0046		0.0019	0.000748	J	0.00187	ND	U	0.00209	0.000324	J	0.00213	0.000479	J	0.00306	ND	U	0.00215	0.00312		0.00218
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	VINYL ACETATE	1.52	2,560	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00204	ND	U	0.0019	ND	U	0.00187	ND	U	0.00209	ND	U	0.00213	ND	U	0.00306	ND	U	0.00215	ND	U	0.00218
	XYLENES	3.13	814	ND	U	0.00611	0.00365	J	0.0057	0.000521	J	0.00562	ND	U	0.00628	ND	U	0.0064	ND	U	0.00919	ND	U	0.00646	0.00271	J	0.00653
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.37		0.63	7.52		0.71	4.29		0.63	4.24		0.66	2.89		0.66	2.94		0.65	3.63		0.64	6.9	J-	0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP171			DP171			DP172			DP172			DP172			DP172			DP172			DP173		
				SAMPLE NO	FFOR0957			FFOR0958			FFOR0959			FFOR0960			FFOR0961			FFOR0962			FFOR0963			FFOR0964		
				SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			12-Aug-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.25	ND	U	4.5	2.23	J	4.6	ND	U	4.34	ND	U	4.54	ND	U	4.29	ND	U	4.37	1.53	J	4.42
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.09	ND	U	6.39	ND	U	5.59	ND	U	5.79	ND	U	4.97	ND	U	4.96	ND	U	5.01	2.21	J	5.39
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	UJ	0.368
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.698	ND	U	0.743	ND	U	0.755	ND	U	0.714	ND	U	0.757	ND	U	0.697	ND	U	0.718	ND	U	0.736
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	ANTHRACENE	5,410	17,200	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0131	J	0.368
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0583	J	0.368
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0517	J	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0474	J	0.368
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0408	J	0.368
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0349	J	0.368
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	CHRYSENE	160	147	ND	U	0.349	ND	U	0.371	0.018	J	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0679	J	0.368
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	FLUORANTHENE	2,430	2,290	ND	U	0.349	ND	U	0.371	0.0246	J	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.127	J	0.368
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP171			DP171			DP172			DP172			DP172			DP172			DP172			DP173		
			SAMPLE NO	FFOR0957			FFOR0958			FFOR0959			FFOR0960			FFOR0961			FFOR0962			FFOR0963			FFOR0964		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.86	ND	U	1.89	ND	U	1.78	ND	U	1.89	ND	U	1.74	ND	U	1.8	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.349	ND	U	0.371	0.0165	J	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.0755	J	0.368
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
	PYRENE	1,790	1,720	ND	U	0.349	ND	U	0.371	0.0272	J	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	0.122	J	0.368
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.371	ND	U	0.377	ND	U	0.357	ND	U	0.379	ND	U	0.348	ND	U	0.359	ND	U	0.368
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000255	J	0.00256	0.000162	J	0.00201	ND	U	0.00285	ND	U	0.00203	0.00098	J	0.00194	ND	U	0.00179	0.000129	J	0.00179	0.000627	J	0.00223
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	0.000571	J	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	1-CHLOROHEXANE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	2-BUTANONE	25.5	37,100	ND	U	0.00641	0.00354	J	0.00501	ND	U	0.00712	0.00237	J	0.00507	0.00594		0.00485	ND	U	0.00448	ND	U	0.00447	ND	U	0.00558
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	2-HEXANONE	NE	NE	ND	U	0.00641	ND	U	0.00501	ND	U	0.00712	ND	U	0.00507	ND	U	0.00485	ND	U	0.00448	ND	U	0.00447	ND	U	0.00558
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0321	ND	UJ	0.0251	ND	UJ	0.0356	ND	UJ	0.0254	ND	UJ	0.0242	ND	UJ	0.0224	ND	UJ	0.0224	ND	UJ	0.0279
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0321	ND	U	0.0251	ND	U	0.0356	ND	U	0.0254	ND	U	0.0242	ND	U	0.0224	ND	U	0.0224	ND	U	0.0279
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00641	ND	U	0.00501	ND	U	0.00712	ND	U	0.00507	ND	U	0.00485	ND	U	0.00448	ND	U	0.00447	ND	U	0.00558
	ACETONE	77.1	66,600	ND	U	0.0321	ND	UJ	0.0251	ND	U	0.0356	ND	UJ	0.0254	ND	UJ	0.0242	ND	U	0.0224	ND	U	0.0224	0.0409		0.0279
	BENZENE	0.0345	15.4	0.000741	J	0.00256	0.000743	J	0.00201	0.000188	J	0.00285	ND	U	0.00203	0.00298		0.00194	0.000336	J	0.00179	0.000353	J	0.00179	0.000515	J	0.00223
	BROMOBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	BROMOFORM	12.1	6,116	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00256	ND	U	0.00201	ND	UJ	0.00285	ND	U	0.00203	ND	U	0.00194	ND	UJ	0.00179	ND	UJ	0.00179	ND	U	0.00223
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CHLOROBENZENE	0.984	376	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CHLOROETHANE	107	29,800	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CHLOROFORM	0.00918	5.86	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CHLOROMETHANE	0.879	275	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	ETHYLBENZENE	0.26	68.4	0.000359	J	0.00256	0.000429	J	0.00201	ND	U	0.00285	ND	U	0.00203	0.000764	J	0.00194	ND	U	0.00179	0.000202	J	0.00179	ND	U	0.00223
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00256	ND	U	0.00201	ND	UJ	0.00285	ND	U	0.00203	ND	U	0.00194	ND	UJ	0.00179	ND	UJ	0.00179	ND	U	0.00223
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	M,P-XYLENES	NE	NE	0.000569	J	0.00513	0.000479	J	0.00401	ND	U	0.00569	ND	U	0.00406	0.00253	J	0.00388	ND	U	0.00358	ND	U	0.00358	ND	U	0.00447
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00641	ND	U	0.00501	ND	U	0.00712	ND	U	0.00507	ND	U	0.00485	ND	U	0.00448	ND	U	0.00447	ND	U	0.00558
	NAPHTHALENE	0.0713	43.0	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	N-BUTYLBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	N-PROPYLBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	O-XYLENE	3.13	898	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	0.000637	J	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP171			DP171			DP172			DP172			DP172			DP172			DP172			DP173		
			SAMPLE NO	FFOR0957			FFOR0958			FFOR0959			FFOR0960			FFOR0961			FFOR0962			FFOR0963			FFOR0964		
			SAMPLE DATE	15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			15-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	STYRENE	27.7	7,280	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	TOLUENE	25.3	5,270	ND	U	0.00256	0.00115	J	0.00201	ND	U	0.00285	ND	U	0.00203	0.00402		0.00194	ND	U	0.00179	ND	U	0.00179	0.00137	J	0.00223
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	UJ	0.00223
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	VINYL ACETATE	1.52	2,560	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	UJ	0.00223
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00256	ND	U	0.00201	ND	U	0.00285	ND	U	0.00203	ND	U	0.00194	ND	U	0.00179	ND	U	0.00179	ND	U	0.00223
	XYLENES	3.13	814	0.000569	J	0.00769	0.000479	J	0.00602	ND	U	0.00854	ND	U	0.00609	0.00318	J	0.00581	ND	U	0.00538	ND	U	0.00537	ND	U	0.0067
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.36		0.63	3.86		0.68	3.41		0.7	3.05		0.65	6.81		0.69	3.37		0.64	4.31		0.65	5.2		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP173			DP173			DP173			DP173			DP173			DP174			DP174			DP174		
			SAMPLE NO	FFOR0965			FFOR0966			FFOR0967			FFOR0968			FFOR0969			FFOR0970			FFOR0971			FFOR0972		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.31	ND	U	4.53	ND	U	4.48	ND	U	4.25	ND	U	4.55	2.47	J	4.37	ND	U	4.18	ND	U	4.66
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.87	J	6.45	1.24	J	5.16	1.14	J	5.45	0.802	J	4.49	0.954	J	6.71	ND	U	8.07	ND	U	5.4	ND	U	5.8
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.359	ND	UJ	0.375	ND	UJ	0.372	ND	UJ	0.355	ND	UJ	0.381	ND	UJ	0.367	ND	UJ	0.351	ND	UJ	0.384
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.75	ND	U	0.745	ND	U	0.711	ND	U	0.761	ND	U	0.733	ND	U	0.702	ND	U	0.769
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.0432	J	0.367	ND	U	0.351	ND	U	0.384
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.118	J	0.367	ND	U	0.351	ND	U	0.384
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.375	0.0429	J	0.372	ND	U	0.355	ND	U	0.381	0.289	J	0.367	ND	U	0.351	ND	U	0.384
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.375	0.0273	J	0.372	ND	U	0.355	ND	U	0.381	**0.181**	J	0.367	ND	U	0.351	ND	U	0.384
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.16	J	0.367	ND	U	0.351	ND	U	0.384
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.375	0.0148	J	0.372	ND	U	0.355	ND	U	0.381	0.148	J	0.367	ND	U	0.351	ND	U	0.384
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.375	0.0245	J	0.372	ND	U	0.355	ND	U	0.381	0.169	J	0.367	ND	U	0.351	ND	U	0.384
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.108	J	0.367	ND	U	0.351	ND	U	0.384
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.375	0.0366	J	0.372	ND	U	0.355	ND	U	0.381	0.273	J	0.367	ND	U	0.351	ND	U	0.384
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.0271	J	0.367	ND	U	0.351	ND	U	0.384
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.0332	J	0.367	ND	U	0.351	ND	U	0.384
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.375	0.0466	J	0.372	ND	U	0.355	ND	U	0.381	0.696		0.367	ND	U	0.351	ND	U	0.384
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.0501	J	0.367	ND	U	0.351	ND	U	0.384
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.127	J	0.367	ND	U	0.351	ND	U	0.384
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.0232	J	0.367	ND	U	0.351	ND	U	0.384
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP173			DP173			DP173			DP173			DP173			DP174			DP174			DP174		
			SAMPLE NO	FFOR0965			FFOR0966			FFOR0967			FFOR0968			FFOR0969			FFOR0970			FFOR0971			FFOR0972		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.87	ND	U	1.86	ND	U	1.78	ND	U	1.9	ND	U	1.83	ND	U	1.75	ND	U	1.92
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	0.52		0.367	ND	U	0.351	ND	U	0.384
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.375	0.0564	J	0.372	ND	U	0.355	ND	U	0.381	0.47		0.367	ND	U	0.351	ND	U	0.384
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.375	ND	U	0.372	ND	U	0.355	ND	U	0.381	ND	U	0.367	ND	U	0.351	ND	U	0.384
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000248	J	0.00241	0.000528	J	0.00191	0.000729	J	0.00222	0.000153	J	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	0.000722	J	0.00199
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	UJ	0.00251	ND	UJ	0.00189	ND	UJ	0.00192	ND	UJ	0.00199
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000179	J	0.00241	0.000291	J	0.00191	0.000363	J	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	0.000421	J	0.00199
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	1-CHLOROHEXANE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	2-BUTANONE	25.5	37,100	ND	U	0.00602	ND	U	0.00478	ND	U	0.00555	ND	U	0.00508	ND	U	0.00628	ND	U	0.00472	ND	U	0.0048	ND	U	0.00498
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	2-HEXANONE	NE	NE	ND	U	0.00602	ND	U	0.00478	ND	U	0.00555	ND	U	0.00508	ND	U	0.00628	ND	U	0.00472	ND	U	0.0048	ND	U	0.00498
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0301	ND	UJ	0.0239	ND	UJ	0.0278	ND	UJ	0.0254	ND	UJ	0.0314	ND	UJ	0.0236	ND	UJ	0.024	ND	UJ	0.0249
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0301	ND	U	0.0239	ND	U	0.0278	ND	U	0.0254	ND	U	0.0314	ND	U	0.0236	ND	U	0.024	ND	U	0.0249
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00602	ND	U	0.00478	ND	U	0.00555	ND	U	0.00508	ND	U	0.00628	ND	U	0.00472	ND	U	0.0048	ND	U	0.00498
	ACETONE	77.1	66,600	0.0122	J	0.0301	0.00475	J	0.0239	0.00467	J	0.0278	0.0196	J	0.0254	0.0106	J	0.0314	0.00925	J	0.0236	0.0075	J	0.024	0.0143	J	0.0249
	BENZENE	0.0345	15.4	0.000174	J	0.00241	0.00104	J	0.00191	0.0017	J	0.00222	0.000557	J	0.00203	0.00016	J	0.00251	ND	U	0.00189	0.000131	J	0.00192	0.0022		0.00199
	BROMOBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	BROMOFORM	12.1	6,116	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	BROMOMETHANE	0.0385	16.5	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	UJ	0.00251	ND	UJ	0.00189	ND	UJ	0.00192	ND	UJ	0.00199
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CHLOROBENZENE	0.984	376	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CHLOROETHANE	107	29,800	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CHLOROFORM	0.00918	5.86	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CHLOROMETHANE	0.879	275	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	UJ	0.00251	ND	UJ	0.00189	ND	UJ	0.00192	ND	UJ	0.00199
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	ETHYLBENZENE	0.26	68.4	0.000294	J	0.00241	0.000315	J	0.00191	0.000371	J	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	0.00021	J	0.00192	0.000485	J	0.00199
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	M,P-XYLENES	NE	NE	ND	U	0.00482	0.00102	J	0.00382	0.00163	J	0.00444	ND	U	0.00406	ND	U	0.00502	ND	U	0.00378	ND	U	0.00384	0.00186	J	0.00398
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00602	ND	U	0.00478	ND	U	0.00555	ND	U	0.00508	ND	U	0.00628	ND	U	0.00472	ND	U	0.0048	ND	U	0.00498
	NAPHTHALENE	0.0713	43.0	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	N-BUTYLBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	N-PROPYLBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	O-XYLENE	3.13	898	ND	U	0.00241	0.000292	J	0.00191	0.000416	J	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	0.000488	J	0.00199

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP173			DP173			DP173			DP173			DP173			DP174			DP174			DP174		
		SAMPLE NO		FFOR0965			FFOR0966			FFOR0967			FFOR0968			FFOR0969			FFOR0970			FFOR0971			FFOR0972		
		SAMPLE DATE		12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	STYRENE	27.7	7,280	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TOLUENE	25.3	5,270	0.00065	J	0.00241	0.00156	J	0.00191	0.00246		0.00222	0.000954	J	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	0.00276		0.00199
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00241	ND	UJ	0.00191	ND	U	0.00222	ND	U	0.00203	ND	UJ	0.00251	ND	UJ	0.00189	ND	UJ	0.00192	ND	UJ	0.00199
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00241	ND	U	0.00191	ND	U	0.00222	ND	U	0.00203	ND	U	0.00251	ND	U	0.00189	ND	U	0.00192	ND	U	0.00199
	XYLENES	3.13	814	ND	U	0.00723	0.00131	J	0.00574	0.00204	J	0.00666	ND	U	0.0061	ND	U	0.00753	ND	U	0.00567	ND	U	0.00576	0.00234	J	0.00597
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.05		0.65	7.12		0.68	7.08		0.68	4.28		0.65	5.96		0.69	4.66		0.66	3.93		0.64	8.11		0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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			LOCATION CODE	DP174			DP174			DP175			DP175			DP175			DP175			DP175			DP175		
			SAMPLE NO	FFOR0973			FFOR0974			FFOR0975			FFOR0976			FFOR0977			FFOR0978			FFOR0979			FFOR0980		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.38	ND	U	4.4	13.2		4.35	3.04	J	4.37	ND	U	4.71	ND	U	4.3	ND	U	4.41	ND	U	4.33
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.01	ND	U	5.74	ND	U	5.49	ND	U	5.55	ND	U	5.46	ND	U	5.31	ND	U	5.62	ND	U	5.61
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.36	ND	UJ	0.365	ND	UJ	3.62	ND	UJ	0.358	ND	UJ	0.388	ND	UJ	0.352	ND	UJ	0.36	ND	UJ	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.73	ND	U	7.23	ND	U	0.717	ND	U	0.777	ND	U	0.704	ND	U	0.721	ND	U	0.708
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.365	0.159	J+	3.62	0.025	J	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.365	0.34	J+	3.62	0.0484	J	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP174			DP174			DP175			DP175			DP175			DP175			DP175			DP175		
			SAMPLE NO	FFOR0973			FFOR0974			FFOR0975			FFOR0976			FFOR0977			FFOR0978			FFOR0979			FFOR0980		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.83	ND	U	18.1	ND	U	1.79	ND	U	1.94	ND	U	1.76	ND	U	1.8	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.365	0.227	J+	3.62	0.0317	J	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.365	0.266	J+	3.62	0.0459	J	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.365	ND	U	3.62	ND	U	0.358	ND	U	0.388	ND	U	0.352	ND	U	0.36	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00247	0.000325	J	0.0025	ND	U	0.00206	ND	U	0.00224	0.000673	J	0.00219	ND	U	0.00213	0.00017	J	0.00182	0.000219	J	0.00189
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	UJ	0.00224	ND	UJ	0.00219	ND	UJ	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00247	0.000153	J	0.0025	ND	U	0.00206	ND	U	0.00224	0.000366	J	0.00219	ND	U	0.00213	ND	U	0.00182	0.000116	J	0.00189
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	1-CHLOROHEXANE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	2-BUTANONE	25.5	37,100	ND	U	0.00618	ND	U	0.00625	ND	U	0.00515	ND	U	0.00561	ND	U	0.00547	ND	U	0.00532	ND	U	0.00456	ND	U	0.00472
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	2-HEXANONE	NE	NE	ND	U	0.00618	ND	U	0.00625	ND	U	0.00515	ND	U	0.00561	ND	U	0.00547	ND	U	0.00532	ND	U	0.00456	ND	U	0.00472
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0309	ND	UJ	0.0312	ND	UJ	0.0257	ND	UJ	0.0281	ND	UJ	0.0273	ND	UJ	0.0266	ND	UJ	0.0228	ND	UJ	0.0236
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0309	ND	U	0.0312	ND	U	0.0257	ND	U	0.0281	ND	U	0.0273	ND	U	0.0266	ND	U	0.0228	ND	U	0.0236
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00618	ND	U	0.00625	ND	U	0.00515	ND	U	0.00561	ND	U	0.00547	ND	U	0.00532	ND	U	0.00456	ND	U	0.00472
	ACETONE	77.1	66,600	0.023	J	0.0309	0.00351	J	0.0312	0.00819	J	0.0257	0.0162	J	0.0281	0.0179	J	0.0273	0.0175	J	0.0266	0.00483	J	0.0228	0.00735	J	0.0236
	BENZENE	0.0345	15.4	0.00022	J	0.00247	0.00106	J	0.0025	0.00013	J	0.00206	ND	U	0.00224	0.00179	J	0.00219	0.000426	J	0.00213	0.000452	J	0.00182	0.000878	J	0.00189
	BROMOBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	BROMOFORM	12.1	6,116	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	UJ	0.00224	ND	UJ	0.00219	ND	UJ	0.00213	ND	U	0.00182	ND	U	0.00189
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CHLOROBENZENE	0.984	376	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CHLOROETHANE	107	29,800	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CHLOROFORM	0.00918	5.86	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CHLOROMETHANE	0.879	275	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	UJ	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	UJ	0.00224	ND	UJ	0.00219	ND	UJ	0.00213	ND	U	0.00182	ND	U	0.00189
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	ETHYLBENZENE	0.26	68.4	ND	U	0.00247	0.000533	J	0.0025	ND	U	0.00206	ND	U	0.00224	0.00052	J	0.00219	ND	U	0.00213	0.000365	J	0.00182	0.000375	J	0.00189
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	M,P-XYLENES	NE	NE	ND	U	0.00495	0.000739	J	0.005	ND	U	0.00412	ND	U	0.00449	0.00179	J	0.00438	ND	U	0.00425	ND	U	0.00365	0.000564	J	0.00377
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00618	ND	U	0.00625	ND	U	0.00515	ND	U	0.00561	ND	U	0.00547	ND	U	0.00532	ND	U	0.00456	ND	U	0.00472
	NAPHTHALENE	0.0713	43.0	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	N-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	N-PROPYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	O-XYLENE	3.13	898	ND	U	0.00247	0.000212	J	0.0025	ND	U	0.00206	ND	U	0.00224	0.000433	J	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP174			DP174			DP175			DP175			DP175			DP175			DP175			DP175		
			SAMPLE NO	FFOR0973			FFOR0974			FFOR0975			FFOR0976			FFOR0977			FFOR0978			FFOR0979			FFOR0980		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	STYRENE	27.7	7,280	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TOLUENE	25.3	5,270	ND	U	0.00247	0.00168	J	0.0025	ND	U	0.00206	ND	U	0.00224	0.00273		0.00219	ND	U	0.00213	0.000931	J	0.00182	0.00146	J	0.00189
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00247	ND	U	0.0025	ND	UJ	0.00206	ND	UJ	0.00224	ND	UJ	0.00219	ND	UJ	0.00213	ND	U	0.00182	ND	U	0.00189
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00247	ND	U	0.0025	ND	U	0.00206	ND	U	0.00224	ND	U	0.00219	ND	U	0.00213	ND	U	0.00182	ND	U	0.00189
	XYLENES	3.13	814	ND	U	0.00742	0.000953	J	0.00749	ND	U	0.00618	ND	U	0.00673	0.00221	J	0.00656	ND	U	0.00638	0.000428	J	0.00547	0.000697	J	0.00566
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.96		0.66	6.25		0.66	5.07		0.66	4.71		0.66	8.04		0.7	4.84		0.64	6.26		0.67	5.09		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP176			DP176			DP176			DP176			DP176			DP177			DP177			DP177		
			SAMPLE NO	FFOR0981			FFOR0982			FFOR0983			FFOR0984			FFOR0985			FFOR0986			FFOR0987			FFOR0988		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.08	J	4.35	ND	U	4.28	1.43	J	4.37	ND	U	4.36	1.98	J	4.35	8.02	J	8.69	5.18	J	8.67	ND	U	4.52
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.98	ND	U	4.97	ND	U	5.02	ND	U	5.63	ND	U	4.95	ND	U	5.6	ND	U	4.55	ND	U	5.53
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.357	ND	UJ	0.354	ND	UJ	0.361	ND	UJ	0.358	ND	UJ	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2-CHLOROPHENOL	2.31	391	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	2-NITROPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.715	ND	U	0.708	ND	U	0.723	ND	U	0.715	ND	U	0.725	ND	U	0.729	ND	U	3.59	ND	U	0.747
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	4-CHLOROANILINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	ACENAPHTHENE	338	3,440	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.0248	J	0.364	0.62	J	1.79	ND	U	0.373
	ACENAPHTHYLENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	0.513	J	1.79	ND	U	0.373
	ANTHRACENE	5,410	17,200	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.0752	J	0.364	1.96		1.79	ND	U	0.373
	BENZENAMINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	BENZO(A)ANTHRACENE	1.57	1.48	0.0292	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.188	J	0.364	**9**		1.79	ND	U	0.373
	BENZO(A)PYRENE	0.52	0.148	0.022	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.112	J	1.82	**9.04**		1.79	ND	U	0.373
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	1.82	**9.85**		1.79	ND	U	0.373
	BENZO(GHI)PERYLENE	NE	NE	0.0212	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.121	J	1.82	7.77		1.79	ND	U	0.373
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0204	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.117	J	1.82	6.24		1.79	ND	U	0.373
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	CARBAZOLE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.0724	J	0.364	1.62	J	1.79	ND	U	0.373
	CHRYSENE	160	147	0.0298	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.205	J	0.364	9.38		1.79	ND	U	0.373
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	1.82	**0.768**	J	1.79	ND	U	0.373
	DIBENZOFURAN	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.0165	J	0.364	0.238	J	1.79	ND	U	0.373
	DIETHYL PHTHALATE	193	48,900	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	FLUORANTHENE	2,430	2,290	0.0523	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.559		0.364	18.2		1.79	ND	U	0.373
	FLUORENE	406	2,290	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.0311	J	0.364	0.47	J	1.79	ND	U	0.373
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	1.82	**6.71**		1.79	ND	U	0.373
	ISOPHORONE	3.84	5,120	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	NAPHTHALENE	0.0713	43.0	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	**0.189**	J	1.79	ND	U	0.373
	NITROBENZENE	0.0125	53.5	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP176			DP176			DP176			DP176			DP176			DP177			DP177			DP177		
			SAMPLE NO	FFOR0981			FFOR0982			FFOR0983			FFOR0984			FFOR0985			FFOR0986			FFOR0987			FFOR0988		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.77	ND	U	1.81	ND	U	1.79	ND	U	1.81	ND	U	1.82	ND	U	8.97	ND	U	1.87
	PHENANTHRENE	571	1,830	0.0345	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.309	J	0.364	7.73		1.79	ND	U	0.373
	PHENOL	99.5	18,300	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
	PYRENE	1,790	1,720	0.0401	J	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	0.209	J	0.364	11.9		1.79	ND	U	0.373
	PYRIDINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.361	ND	U	0.358	ND	U	0.362	ND	U	0.364	ND	U	1.79	ND	U	0.373
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	0.000648	J	0.00199	0.000349	J	0.00205	0.000264	J	0.0019	ND	U	0.00258	ND	U	0.00214	0.001	J	0.00197
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	0.000349	J	0.00199	0.000172	J	0.00205	0.000147	J	0.0019	ND	U	0.00258	ND	U	0.00214	0.000531	J	0.00197
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	1-CHLOROHEXANE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	UJ	0.00258	ND	UJ	0.00214	ND	UJ	0.00197
	2-BUTANONE	25.5	37,100	ND	U	0.00514	ND	U	0.00525	ND	U	0.00497	ND	U	0.00513	0.00476		0.00474	0.0116		0.00645	0.00996		0.00535	0.0111		0.00494
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	2-HEXANONE	NE	NE	ND	U	0.00514	ND	U	0.00525	ND	U	0.00497	ND	U	0.00513	ND	U	0.00474	ND	U	0.00645	ND	U	0.00535	ND	U	0.00494
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0257	ND	UJ	0.0262	ND	UJ	0.0248	ND	UJ	0.0257	ND	UJ	0.0237	ND	UJ	0.0323	ND	UJ	0.0267	ND	UJ	0.0247
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0257	ND	U	0.0262	ND	U	0.0248	ND	U	0.0257	ND	U	0.0237	ND	U	0.0323	ND	U	0.0267	ND	U	0.0247
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00514	ND	U	0.00525	ND	U	0.00497	ND	U	0.00513	ND	U	0.00474	ND	U	0.00645	ND	U	0.00535	ND	U	0.00494
	ACETONE	77.1	66,600	0.00181	J	0.0257	0.00192	J	0.0262	ND	U	0.0248	0.00984	J	0.0257	0.00524	J	0.0237	0.0468		0.0323	0.045		0.0267	0.036		0.0247
	BENZENE	0.0345	15.4	0.000436	J	0.00205	0.000192	J	0.0021	0.00141	J	0.00199	0.00082	J	0.00205	0.000732	J	0.0019	0.000485	J	0.00258	0.000619	J	0.00214	0.00313		0.00197
	BROMOBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	BROMOFORM	12.1	6,116	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	BROMOMETHANE	0.0385	16.5	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	UJ	0.00258	ND	UJ	0.00214	ND	UJ	0.00197
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CHLOROBENZENE	0.984	376	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CHLOROETHANE	107	29,800	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CHLOROFORM	0.00918	5.86	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CHLOROMETHANE	0.879	275	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	ETHYLBENZENE	0.26	68.4	ND	U	0.00205	ND	U	0.0021	0.0004	J	0.00199	0.000433	J	0.00205	0.000368	J	0.0019	ND	U	0.00258	ND	U	0.00214	0.000968	J	0.00197
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	M,P-XYLENES	NE	NE	ND	U	0.00411	ND	U	0.0042	0.00147	J	0.00398	0.000718	J	0.00411	0.000518	J	0.00379	ND	U	0.00516	0.000408	J	0.00428	0.00297	J	0.00395
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00514	ND	U	0.00525	ND	U	0.00497	ND	U	0.00513	ND	U	0.00474	ND	U	0.00645	ND	U	0.00535	ND	U	0.00494
	NAPHTHALENE	0.0713	43.0	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	0.000798	J	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	N-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	N-PROPYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	0.000198	J	0.00197
	O-XYLENE	3.13	898	ND	U	0.00205	ND	U	0.0021	0.000343	J	0.00199	0.000222	J	0.00205	0.000172	J	0.0019	ND	U	0.00258	ND	U	0.00214	0.000748	J	0.00197

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP176			DP176			DP176			DP176			DP176			DP177			DP177			DP177		
		SAMPLE NO		FFOR0981			FFOR0982			FFOR0983			FFOR0984			FFOR0985			FFOR0986			FFOR0987			FFOR0988		
		SAMPLE DATE		12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	STYRENE	27.7	7,280	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TOLUENE	25.3	5,270	0.000511	J	0.00205	0.00041	J	0.0021	0.00207		0.00199	0.00139	J	0.00205	0.00107	J	0.0019	0.000587	J	0.00258	0.000604	J	0.00214	0.00434		0.00197
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	VINYL ACETATE	1.52	2,560	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00205	ND	U	0.0021	ND	U	0.00199	ND	U	0.00205	ND	U	0.0019	ND	U	0.00258	ND	U	0.00214	ND	U	0.00197
	XYLENES	3.13	814	ND	U	0.00616	ND	U	0.0063	0.00182	J	0.00596	0.00094	J	0.00616	0.000691	J	0.00569	ND	U	0.00774	ND	U	0.00642	0.00372	J	0.00592
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.3		0.66	3.37	J	0.65	5.13		0.66	2.52		0.65	5.23		0.66	4.49		0.66	4.55		0.66	6.85		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP177			DP177			DP177			DP178			DP178			DP178			DP178			DP178		
			SAMPLE NO	FFOR0989			FFOR0990			FFOR0991			FFOR0992			FFOR0993			FFOR0994			FFOR0995			FFOR0996		
			SAMPLE DATE	11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.39	ND	U	4.41	ND	U	4.37	ND	U	4.46	1.52	J	4.49	ND	U	4.53	ND	U	4.33	ND	U	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.92	ND	U	5.22	ND	U	5.08	ND	U	6.18	ND	U	5.57	ND	U	5.18	ND	U	5.22	ND	U	5.11
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.725	ND	U	0.729	ND	U	0.748	ND	U	0.736	ND	U	0.736	ND	U	0.714	ND	U	0.722
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP177			DP177			DP177			DP178			DP178			DP178			DP178			DP178		
			SAMPLE NO	FFOR0989			FFOR0990			FFOR0991			FFOR0992			FFOR0993			FFOR0994			FFOR0995			FFOR0996		
			SAMPLE DATE	11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.84	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.362	ND	U	0.362	ND	U	0.364	ND	U	0.374	ND	U	0.368	ND	U	0.368	ND	U	0.357	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00106	J	0.00215	0.000117	J	0.00182	0.000201	J	0.00186	ND	U	0.00222	ND	U	0.00233	0.000994	J	0.00202	0.00015	J	0.00206	0.000374	J	0.00229
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000574	J	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	0.000613	J	0.00202	ND	U	0.00206	0.000193	J	0.00229
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	1-CHLOROHEXANE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00215	ND	UJ	0.00182	ND	UJ	0.00186	ND	UJ	0.00222	ND	UJ	0.00233	ND	UJ	0.00202	ND	UJ	0.00206	ND	UJ	0.00229
	2-BUTANONE	25.5	37,100	0.0115		0.00538	0.00942		0.00456	0.00899		0.00464	0.00865		0.00555	0.00888		0.00582	0.0119		0.00506	0.0108		0.00514	0.0152		0.00574
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	2-HEXANONE	NE	NE	ND	U	0.00538	ND	U	0.00456	ND	U	0.00464	ND	U	0.00555	ND	U	0.00582	ND	U	0.00506	ND	U	0.00514	ND	U	0.00574
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0269	ND	UJ	0.0228	ND	UJ	0.0232	ND	UJ	0.0277	ND	UJ	0.0291	ND	UJ	0.0253	ND	UJ	0.0257	ND	UJ	0.0287
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0269	ND	U	0.0228	ND	U	0.0232	ND	U	0.0277	ND	U	0.0291	ND	U	0.0253	ND	U	0.0257	ND	U	0.0287
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00538	ND	U	0.00456	ND	U	0.00464	ND	U	0.00555	ND	U	0.00582	ND	U	0.00506	ND	U	0.00514	ND	U	0.00574
	ACETONE	77.1	66,600	0.0425		0.0269	0.0462		0.0228	0.0347		0.0232	0.0391		0.0277	0.041		0.0291	0.0442		0.0253	0.0418		0.0257	0.0628		0.0287
	BENZENE	0.0345	15.4	0.00337		0.00215	0.000775	J	0.00182	0.000974	J	0.00186	0.000472	J	0.00222	0.000355	J	0.00233	0.00355		0.00202	0.000688	J	0.00206	0.002	J	0.00229
	BROMOBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	BROMOFORM	12.1	6,116	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00215	ND	UJ	0.00182	ND	UJ	0.00186	ND	UJ	0.00222	ND	UJ	0.00233	ND	UJ	0.00202	ND	UJ	0.00206	ND	UJ	0.00229
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CHLOROBENZENE	0.984	376	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CHLOROETHANE	107	29,800	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CHLOROFORM	0.00918	5.86	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CHLOROMETHANE	0.879	275	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	ETHYLBENZENE	0.26	68.4	0.00116	J	0.00215	0.000398	J	0.00182	0.000465	J	0.00186	ND	U	0.00222	ND	U	0.00233	0.00105	J	0.00202	0.000351	J	0.00206	0.00079	J	0.00229
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	M,P-XYLENES	NE	NE	0.00315	J	0.00431	0.000501	J	0.00365	0.000642	J	0.00371	0.000415	J	0.00444	0.000461	J	0.00466	0.00295	J	0.00405	0.000612	J	0.00411	0.00135	J	0.00459
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00538	ND	U	0.00456	ND	U	0.00464	ND	U	0.00555	ND	U	0.00582	ND	U	0.00506	ND	U	0.00514	ND	U	0.00574
	NAPHTHALENE	0.0713	43.0	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	N-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	N-PROPYLBENZENE	NE	NE	0.000195	J	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	O-XYLENE	3.13	898	0.000788	J	0.00215	ND	U	0.00182	0.000174	J	0.00186	ND	U	0.00222	ND	U	0.00233	0.000757	J	0.00202	0.000162	J	0.00206	0.000332	J	0.00229

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		LOCATION CODE		DP177			DP177			DP177			DP178			DP178			DP178			DP178			DP178		
		SAMPLE NO		FFOR0989			FFOR0990			FFOR0991			FFOR0992			FFOR0993			FFOR0994			FFOR0995			FFOR0996		
		SAMPLE DATE		11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	STYRENE	27.7	7,280	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TOLUENE	25.3	5,270	0.00458		0.00215	0.000925	J	0.00182	0.0014	J	0.00186	0.000468	J	0.00222	0.000648	J	0.00233	0.00477		0.00202	0.00122	J	0.00206	0.00235		0.00229
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	VINYL ACETATE	1.52	2,560	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00215	ND	U	0.00182	ND	U	0.00186	ND	U	0.00222	ND	U	0.00233	ND	U	0.00202	ND	U	0.00206	ND	U	0.00229
	XYLENES	3.13	814	0.00393	J	0.00646	0.000501	J	0.00547	0.000817	J	0.00557	ND	U	0.00666	ND	U	0.00698	0.00371	J	0.00607	0.000773	J	0.00617	0.00167	J	0.00688
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.71		0.65	4.74		0.66	5.27		0.66	4.91		0.68	3.79		0.67	7.46		0.68	4.82		0.66	4.19		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP179			DP179			DP179			DP179			DP179			DP179			DP180			DP180		
			SAMPLE NO	FFOR0997			FFOR0998			FFOR0999			FFOR1000			FFOR1001			FFOR1002			FFOR1003			FFOR1004		
			SAMPLE DATE	11-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-5 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	13.3		4.39	ND	U	4.47	ND	U	4.41	ND	U	4.37	ND	U	4.25	ND	U	4.24	ND	U	4.42	ND	U	4.42
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.56	ND	U	6.43	ND	U	5	ND	U	5.16	ND	U	4.67	ND	U	4.91	ND	U	4.59	ND	U	4.77
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	UJ	0.367	ND	UJ	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.732	ND	U	0.728	ND	U	0.731	ND	U	0.704	ND	U	0.7	ND	U	0.734	ND	U	0.726
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	ANTHRACENE	5,410	17,200	0.0164	J	0.363	0.0146	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	0.041	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZO(A)PYRENE	0.52	0.148	0.0138	J	0.363	0.031	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	0.0373	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZO(GHI)PERYLENE	NE	NE	0.0135	J	0.363	0.027	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	0.027	J	0.366	ND	UJ	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	CHRYSENE	160	147	ND	U	0.363	0.0428	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	0.0143	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	FLUORANTHENE	2,430	2,290	0.0367	J	0.363	0.1	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP179			DP179			DP179			DP179			DP179			DP179			DP180			DP180		
			SAMPLE NO	FFOR0997			FFOR0998			FFOR0999			FFOR1000			FFOR1001			FFOR1002			FFOR1003			FFOR1004		
			SAMPLE DATE	11-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-5 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.83	ND	U	1.82	ND	U	1.83	ND	U	1.76	ND	U	1.75	ND	U	1.83	ND	U	1.82
	PHENANTHRENE	571	1,830	0.031	J	0.363	0.0673	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	PYRENE	1,790	1,720	0.0255	J	0.363	0.0608	J	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.366	ND	U	0.364	ND	U	0.366	ND	U	0.352	ND	U	0.35	ND	U	0.367	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	0.000983	J	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	0.000191	J	0.00255	ND	U	0.00183
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00183	ND	U	0.00231	ND	UJ	0.00223	ND	U	0.00197	ND	U	0.00195	ND	UJ	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	0.000579	J	0.00223	ND	U	0.00197	ND	U	0.00195	0.000139	J	0.00189	ND	U	0.00255	ND	U	0.00183
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	1-CHLOROHEXANE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	2-BUTANONE	25.5	37,100	0.00448	J	0.00456	0.00472	J	0.00578	ND	U	0.00558	0.00433	J	0.00492	0.00493		0.00487	ND	U	0.00474	ND	U	0.00636	ND	U	0.00459
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	2-HEXANONE	NE	NE	ND	U	0.00456	ND	U	0.00578	ND	U	0.00558	ND	U	0.00492	ND	U	0.00487	ND	U	0.00474	ND	U	0.00636	ND	U	0.00459
	2-PROPENAL	0.000146	0.404	ND	U	0.0228	ND	U	0.0289	ND	U	0.0279	ND	U	0.0246	ND	U	0.0243	ND	U	0.0237	ND	UJ	0.0318	ND	UJ	0.0229
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0228	ND	U	0.0289	ND	U	0.0279	ND	U	0.0246	ND	U	0.0243	ND	U	0.0237	ND	U	0.0318	ND	U	0.0229
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00456	ND	U	0.00578	ND	U	0.00558	ND	U	0.00492	ND	U	0.00487	ND	U	0.00474	ND	U	0.00636	ND	U	0.00459
	ACETONE	77.1	66,600	0.00464	J	0.0228	0.00232	J	0.0289	0.012	J	0.0279	0.00315	J	0.0246	0.00489	J	0.0243	0.00437	J	0.0237	ND	U	0.0318	0.0378		0.0229
	BENZENE	0.0345	15.4	ND	U	0.00183	ND	U	0.00231	0.00246		0.00223	ND	U	0.00197	ND	U	0.00195	0.000546	J	0.00189	0.0013	J	0.00255	0.000338	J	0.00183
	BROMOBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	BROMOFORM	12.1	6,116	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	BROMOMETHANE	0.0385	16.5	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CHLOROBENZENE	0.984	376	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CHLOROETHANE	107	29,800	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CHLOROFORM	0.00918	5.86	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CHLOROMETHANE	0.879	275	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	ETHYLBENZENE	0.26	68.4	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	M,P-XYLENES	NE	NE	ND	U	0.00365	ND	U	0.00462	ND	U	0.00447	ND	U	0.00394	ND	U	0.00389	ND	U	0.00379	0.000467	J	0.00509	ND	U	0.00367
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00456	ND	U	0.00578	ND	U	0.00558	ND	U	0.00492	ND	U	0.00487	ND	U	0.00474	ND	U	0.00636	ND	U	0.00459
	NAPHTHALENE	0.0713	43.0	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	N-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	N-PROPYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	O-XYLENE	3.13	898	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183

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			LOCATION CODE	DP179			DP179			DP179			DP179			DP179			DP179			DP180			DP180		
			SAMPLE NO	FFOR0997			FFOR0998			FFOR0999			FFOR1000			FFOR1001			FFOR1002			FFOR1003			FFOR1004		
			SAMPLE DATE	11-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			12-Aug-11			12-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-5 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	STYRENE	27.7	7,280	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TOLUENE	25.3	5,270	ND	U	0.00183	ND	U	0.00231	0.0038		0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	0.00109	J	0.00255	0.000244	J	0.00183
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	VINYL ACETATE	1.52	2,560	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00183	ND	U	0.00231	ND	U	0.00223	ND	U	0.00197	ND	U	0.00195	ND	U	0.00189	ND	U	0.00255	ND	U	0.00183
	XYLENES	3.13	814	ND	U	0.00548	ND	U	0.00693	ND	U	0.0067	ND	U	0.0059	ND	U	0.00584	ND	U	0.00568	0.000567	J	0.00764	ND	U	0.0055
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.75		0.66	2.87		0.66	6.42	J	3.31	4.87		0.66	4.73		0.64	4.32		0.64	3.57		0.67	4.09		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP180			DP180			DP180			DP180			DP181			DP181			DP181			DP181		
		SAMPLE NO		FFOR1005			FFOR1006			FFOR1007			FFOR1008			FFOR1009			FFOR1010			FFOR1011			FFOR1012		
		SAMPLE DATE		12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.56	ND	U	4.41	ND	U	4.51	4.1	J	4.37	5.71		4.51	4.19	J	4.44	3.15	J	4.45
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.79	ND	U	5.27	ND	U	6.15	ND	U	4.92	ND	U	6.95	ND	U	5.79	ND	U	5.81	ND	U	5.94
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.358	ND	UJ	0.373	ND	UJ	0.368	ND	UJ	0.375	ND	U	0.36	ND	U	0.368	ND	UJ	0.366	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.716	ND	U	0.747	ND	U	0.735	ND	U	0.749	ND	U	0.721	ND	U	0.736	ND	U	0.732	ND	U	0.722
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	0.588		0.366	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP180			DP180			DP180			DP180			DP181			DP181			DP181			DP181		
			SAMPLE NO	FFOR1005			FFOR1006			FFOR1007			FFOR1008			FFOR1009			FFOR1010			FFOR1011			FFOR1012		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.87	ND	U	1.84	ND	U	1.87	ND	U	1.8	ND	U	1.84	ND	U	1.83	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.373	ND	U	0.368	ND	U	0.375	ND	U	0.36	ND	U	0.368	ND	U	0.366	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00277	0.000209	J	0.00201	ND	U	0.00206	0.000133	J	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	1-CHLOROHEXANE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	2-BUTANONE	25.5	37,100	ND	U	0.00691	ND	U	0.00503	ND	U	0.00515	ND	U	0.00448	0.00597		0.00441	ND	U	0.00995	ND	U	0.00574	0.00553	J	0.00683
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	2-HEXANONE	NE	NE	ND	U	0.00691	ND	U	0.00503	ND	U	0.00515	ND	U	0.00448	ND	U	0.00441	ND	U	0.00995	ND	U	0.00574	ND	U	0.00683
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0346	ND	UJ	0.0251	ND	UJ	0.0257	ND	UJ	0.0224	ND	U	0.022	ND	U	0.0498	ND	U	0.0287	ND	U	0.0342
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0346	ND	U	0.0251	ND	U	0.0257	ND	U	0.0224	ND	U	0.022	ND	U	0.0498	ND	U	0.0287	ND	UJ	0.0342
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00691	ND	U	0.00503	ND	U	0.00515	ND	U	0.00448	ND	U	0.00441	ND	U	0.00995	ND	U	0.00574	ND	U	0.00683
	ACETONE	77.1	66,600	0.00736	J	0.0346	0.00247	J	0.0251	0.0054	J	0.0257	0.00104	J	0.0224	0.0253		0.022	0.0332	J	0.0498	0.015	J	0.0287	0.0388		0.0342
	BENZENE	0.0345	15.4	0.00178	J	0.00277	0.000534	J	0.00201	0.000227	J	0.00206	0.000399	J	0.00179	0.000703	J	0.00176	0.00912		0.00398	0.00139	J	0.0023	0.00179	J	0.00273
	BROMOBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	BROMOFORM	12.1	6,116	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	BROMOMETHANE	0.0385	16.5	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	UJ	0.00176	ND	U	0.00398	ND	UJ	0.0023	ND	U	0.00273
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CHLOROBENZENE	0.984	376	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CHLOROETHANE	107	29,800	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CHLOROFORM	0.00918	5.86	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CHLOROMETHANE	0.879	275	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	ETHYLBENZENE	0.26	68.4	ND	U	0.00277	0.000267	J	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	0.000465	J	0.00273
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	M,P-XYLENES	NE	NE	ND	U	0.00553	0.000476	J	0.00402	ND	U	0.00412	ND	U	0.00358	ND	U	0.00353	ND	U	0.00796	ND	U	0.00459	0.00102	J	0.00547
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00691	ND	U	0.00503	ND	U	0.00515	ND	U	0.00448	ND	U	0.00441	0.00767	J	0.00995	ND	U	0.00574	ND	U	0.00683
	NAPHTHALENE	0.0713	43.0	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	N-BUTYLBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	N-PROPYLBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	O-XYLENE	3.13	898	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	0.00045	J	0.00273

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP180			DP180			DP180			DP180			DP181			DP181			DP181			DP181		
			SAMPLE NO	FFOR1005			FFOR1006			FFOR1007			FFOR1008			FFOR1009			FFOR1010			FFOR1011			FFOR1012		
			SAMPLE DATE	12-Aug-11			12-Aug-11			12-Aug-11			12-Aug-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	STYRENE	27.7	7,280	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TOLUENE	25.3	5,270	0.00109	J	0.00277	0.000829	J	0.00201	0.00038	J	0.00206	0.000603	J	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	VINYL ACETATE	1.52	2,560	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00277	ND	U	0.00201	ND	U	0.00206	ND	U	0.00179	ND	U	0.00176	ND	U	0.00398	ND	U	0.0023	ND	U	0.00273
	XYLENES	3.13	814	ND	U	0.0083	0.000588	J	0.00604	ND	U	0.00618	ND	U	0.00537	ND	U	0.00529	ND	U	0.0119	ND	U	0.00689	0.00147	J	0.0082
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.51		0.66	5.88		0.69	4.56		0.67	5.49		0.69	4.16		0.66	3.61		0.68	3.5		0.66	6.21	J-	0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP181			DP181			DP182			DP182			DP182			DP182			DP182			DP183		
			SAMPLE NO	FFOR1013			FFOR1014			FFOR1015			FFOR1016			FFOR1017			FFOR1018			FFOR1019			FFOR1020		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.65	J	4.47	2.61	J	4.38	5.17		4.25	4.78		4.58	2.54	J	4.34	2.7	J	4.36	3.92	J	4.27	12.3		4.43
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.8	ND	U	3.76	ND	U	7.27	ND	U	7.26	ND	U	6.91	ND	U	4.04	ND	U	6.32	ND	U	6.87
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	UJ	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.738	ND	U	0.722	ND	U	0.712	ND	U	0.743	ND	U	0.705	ND	U	0.728	ND	U	0.716	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP181			DP181			DP182			DP182			DP182			DP182			DP182			DP183		
			SAMPLE NO	FFOR1013			FFOR1014			FFOR1015			FFOR1016			FFOR1017			FFOR1018			FFOR1019			FFOR1020		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.81	ND	U	1.78	ND	U	1.86	ND	U	1.76	ND	U	1.82	ND	U	1.79	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.369	ND	U	0.361	ND	U	0.356	ND	U	0.371	ND	U	0.353	ND	U	0.364	ND	U	0.358	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	0.000308	J	0.00195	0.00079	J	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	0.000427	J	0.00209	ND	U	0.00265	ND	U	0.0027
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	1-CHLOROHEXANE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	UJ	0.00209	ND	UJ	0.00265	ND	UJ	0.0027
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	2-BUTANONE	25.5	37,100	0.00606	J	0.00783	0.00465	J	0.00535	0.00525	J	0.00915	0.0037	J	0.00634	0.00495		0.00487	0.00265	J	0.00521	0.00411	J	0.00661	0.00646	J	0.00674
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	2-HEXANONE	NE	NE	ND	U	0.00783	ND	U	0.00535	ND	U	0.00915	ND	U	0.00634	ND	U	0.00487	ND	U	0.00521	ND	U	0.00661	ND	U	0.00674
	2-PROPENAL	0.000146	0.404	ND	U	0.0391	ND	U	0.0268	ND	U	0.0457	ND	U	0.0317	ND	U	0.0243	ND	UJ	0.0261	ND	UJ	0.0331	ND	UJ	0.0337
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0391	ND	UJ	0.0268	ND	UJ	0.0457	ND	UJ	0.0317	ND	UJ	0.0243	ND	UJ	0.0261	ND	UJ	0.0331	ND	UJ	0.0337
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00783	ND	U	0.00535	ND	U	0.00915	ND	U	0.00634	ND	U	0.00487	ND	U	0.00521	ND	U	0.00661	ND	U	0.00674
	ACETONE	77.1	66,600	0.0292	J	0.0391	0.0213	J	0.0268	0.0438	J	0.0457	0.0196	J	0.0317	0.0106	J	0.0243	0.0194	J	0.0261	0.0164	J	0.0331	0.075	J	0.0337
	BENZENE	0.0345	15.4	0.00068	J	0.00313	0.00251		0.00214	0.00219	J	0.00366	ND	U	0.00254	0.000998	J	0.00195	0.00279		0.00209	ND	U	0.00265	ND	U	0.0027
	BROMOBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	BROMOFORM	12.1	6,116	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	BROMOMETHANE	0.0385	16.5	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CHLOROBENZENE	0.984	376	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CHLOROETHANE	107	29,800	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CHLOROFORM	0.00918	5.86	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CHLOROMETHANE	0.879	275	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	ETHYLBENZENE	0.26	68.4	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	0.000341	J	0.00195	0.000688	J	0.00209	ND	U	0.00265	ND	U	0.0027
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	M,P-XYLENES	NE	NE	ND	U	0.00626	ND	U	0.00428	ND	U	0.00732	ND	U	0.00507	0.000821	J	0.00389	0.00208	J	0.00417	ND	U	0.00529	ND	U	0.00539
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00783	ND	U	0.00535	ND	U	0.00915	ND	U	0.00634	ND	U	0.00487	ND	U	0.00521	ND	U	0.00661	ND	U	0.00674
	NAPHTHALENE	0.0713	43.0	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	N-BUTYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	N-PROPYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	O-XYLENE	3.13	898	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	0.000668	J	0.00209	ND	U	0.00265	ND	U	0.0027

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP181			DP181			DP182			DP182			DP182			DP182			DP182			DP183		
		SAMPLE NO		FFOR1013			FFOR1014			FFOR1015			FFOR1016			FFOR1017			FFOR1018			FFOR1019			FFOR1020		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	STYRENE	27.7	7,280	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TOLUENE	25.3	5,270	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	0.000666	J	0.00195	0.0034		0.00209	ND	U	0.00265	ND	U	0.0027
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	VINYL ACETATE	1.52	2,560	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	UJ	0.00209	ND	UJ	0.00265	ND	UJ	0.0027
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00313	ND	U	0.00214	ND	U	0.00366	ND	U	0.00254	ND	U	0.00195	ND	U	0.00209	ND	U	0.00265	ND	U	0.0027
	XYLENES	3.13	814	ND	U	0.00939	ND	U	0.00642	ND	U	0.011	ND	U	0.00761	0.000821	J	0.00584	0.00275	J	0.00626	ND	U	0.00794	ND	U	0.00809
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.43		0.67	5.14		0.65	4.37		0.65	3.76		0.69	5.01		0.65	4.41		0.66	5.35		0.65	4.2		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP183			DP183			DP183			DP183			DP183			DP184			DP184			DP184		
		SAMPLE NO		FFOR1021			FFOR1022			FFOR1023			FFOR1024			FFOR1025			FFOR1026			FFOR1027			FFOR1028		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			18-Jun-11			18-Jun-11			18-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.99		4.52	1.53	J	4.35	ND	U	4.34	ND	U	4.32	2.1	J	4.27	44.6		8.54	66.2		46	35.2		8.76
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.45	ND	U	7.1	ND	U	5.12	ND	U	5.38	1.27	J	4.91	ND	U	5.2	ND	U	5.34	ND	U	5.45
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2-CHLOROPHENOL	2.31	391	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	2-NITROPHENOL	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.745	ND	U	0.729	ND	U	0.716	ND	U	0.701	ND	U	0.705	ND	U	7	ND	U	7.62	ND	U	7.28
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	4-CHLOROANILINE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	ACENAPHTHENE	338	3,440	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	ACENAPHTHYLENE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	ANTHRACENE	5,410	17,200	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BENZENAMINE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	CARBAZOLE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	CHRYSENE	160	147	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	0.199	J	3.81	ND	U	3.64
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	DIBENZOFURAN	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	DIETHYL PHTHALATE	193	48,900	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	FLUORANTHENE	2,430	2,290	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	0.473	J	3.81	ND	U	3.64
	FLUORENE	406	2,290	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	7	ND	U	7.62	ND	U	7.28
	ISOPHORONE	3.84	5,120	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	NAPHTHALENE	0.0713	43.0	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	NITROBENZENE	0.0125	53.5	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP183			DP183			DP183			DP183			DP183			DP184			DP184			DP184		
			SAMPLE NO	FFOR1021			FFOR1022			FFOR1023			FFOR1024			FFOR1025			FFOR1026			FFOR1027			FFOR1028		
			SAMPLE DATE	20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			18-Jun-11			18-Jun-11			18-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.82	ND	U	1.79	ND	U	1.75	ND	U	1.76	ND	U	17.5	ND	U	19.1	ND	U	18.2
	PHENANTHRENE	571	1,830	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	0.257	J	3.81	ND	U	3.64
	PHENOL	99.5	18,300	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
	PYRENE	1,790	1,720	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	0.277	J	3.81	ND	U	3.64
	PYRIDINE	NE	NE	ND	U	0.373	ND	U	0.365	ND	U	0.358	ND	U	0.35	ND	U	0.352	ND	U	3.5	ND	U	3.81	ND	U	3.64
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	0.000278	J	0.00356	ND	U	0.00634	ND	U	0.00225	0.000151	J	0.00245
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00223	ND	UJ	0.00242	ND	UJ	0.00265	ND	UJ	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	2-BUTANONE	25.5	37,100	0.00499	J	0.00557	0.00659	J	0.00606	0.00433	J	0.00662	ND	UJ	0.00489	0.00446	J	0.0089	0.00491	J	0.0159	0.00235	J	0.00561	0.00297	J	0.00613
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	2-HEXANONE	NE	NE	ND	U	0.00557	ND	U	0.00606	ND	U	0.00662	ND	U	0.00489	ND	U	0.0089	ND	U	0.0159	ND	U	0.00561	ND	U	0.00613
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0278	ND	UJ	0.0303	ND	UJ	0.0331	ND	UJ	0.0244	ND	U	0.0445	ND	UJ	0.0793	ND	UJ	0.0281	ND	UJ	0.0306
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0278	ND	UJ	0.0303	ND	UJ	0.0331	ND	UJ	0.0244	ND	U	0.0445	ND	UJ	0.0793	ND	UJ	0.0281	ND	UJ	0.0306
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00557	ND	U	0.00606	ND	U	0.00662	ND	U	0.00489	ND	U	0.0089	ND	U	0.0159	ND	U	0.00561	ND	U	0.00613
	ACETONE	77.1	66,600	0.0313	J	0.0278	0.031	J	0.0303	0.0242	J	0.0331	0.0141	J	0.0244	0.0421	J	0.0445	0.0793	J	0.0793	0.0175	J	0.0281	0.0159	J	0.0306
	BENZENE	0.0345	15.4	ND	U	0.00223	0.00112	J	0.00242	0.00059	J	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	0.000782	J	0.00245
	BROMOBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	BROMOFORM	12.1	6,116	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	BROMOMETHANE	0.0385	16.5	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CHLOROBENZENE	0.984	376	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CHLOROETHANE	107	29,800	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	UJ	0.00634	ND	UJ	0.00225	ND	UJ	0.00245
	CHLOROFORM	0.00918	5.86	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CHLOROMETHANE	0.879	275	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	ETHYLBENZENE	0.26	68.4	ND	U	0.00223	0.000435	J	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	M,P-XYLENES	NE	NE	ND	U	0.00445	0.000736	J	0.00485	ND	U	0.0053	ND	U	0.00391	ND	U	0.00712	ND	U	0.0127	ND	U	0.00449	0.000439	J	0.0049
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00557	ND	U	0.00606	ND	U	0.00662	ND	U	0.00489	ND	U	0.0089	ND	U	0.0159	ND	U	0.00561	ND	U	0.00613
	NAPHTHALENE	0.0713	43.0	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	0.00426	J	0.00634	0.00276		0.00225	0.00193	J	0.00245
	N-BUTYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	N-PROPYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	O-XYLENE	3.13	898	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP183			DP183			DP183			DP183			DP183			DP184			DP184			DP184		
		SAMPLE NO		FFOR1021			FFOR1022			FFOR1023			FFOR1024			FFOR1025			FFOR1026			FFOR1027			FFOR1028		
		SAMPLE DATE		20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			20-Jul-11			18-Jun-11			18-Jun-11			18-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	STYRENE	27.7	7,280	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TOLUENE	25.3	5,270	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	0.00169	J	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00223	ND	UJ	0.00242	ND	UJ	0.00265	ND	UJ	0.00196	ND	UJ	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00223	ND	U	0.00242	ND	U	0.00265	ND	U	0.00196	ND	U	0.00356	ND	U	0.00634	ND	U	0.00225	ND	U	0.00245
	XYLENES	3.13	814	ND	U	0.00668	0.000736	J	0.00727	ND	U	0.00795	ND	U	0.00587	ND	U	0.0107	ND	U	0.019	ND	U	0.00674	ND	U	0.00735
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.76		0.67	4.85		0.66	4.68		0.65	4.83		0.65	5.16	J-	0.65	6.73		0.65	6.25		0.7	5.15		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP184			DP184			DP185			DP185			DP185			DP185			DP185			DP185		
			SAMPLE NO	FFOR1030			FFOR1029-R			FFOR1031			FFOR1032			FFOR1033			FFOR1035			FFOR1036			FFOR1034-R		
			SAMPLE DATE	18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	20-21 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT			20-21 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	17.7		8.62	2.13	J	4.2	12.2	J-	8.85	1.79	J	4.76	ND	U	4.38	ND	U	4.89	ND	U	4.37	ND	U	4.46
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.3	0.738	J	5.4	ND	U	7.07	ND	U	7.82	ND	U	6.07	ND	U	9.02	ND	U	7.48	ND	U	7.2
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	18.1	ND	U	1.73	ND	UJ	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	18.1	ND	U	1.73	ND	U	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.23	ND	U	0.691	ND	U	7.35	ND	U	0.789	ND	U	0.728	ND	U	0.807	ND	U	0.724	ND	U	0.728
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	18.1	ND	U	1.73	ND	U	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	18.1	ND	U	1.73	ND	UJ	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	18.1	ND	U	1.73	ND	U	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	18.1	ND	U	1.73	ND	U	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	7.23	0.0164	J	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	7.23	ND	U	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	7.23	0.02	J	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	7.23	ND	U	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.61	ND	U	0.346	ND	U	3.67	0.0347	J	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	CHRYSENE	160	147	ND	U	3.61	0.0205	J	0.346	ND	U	3.67	0.0188	J	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	7.23	ND	U	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	3.61	0.0361	J	0.346	ND	U	3.67	0.0304	J	0.394	0.00834	J	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	FLUORENE	406	2,290	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	7.23	ND	U	0.346	ND	U	7.35	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP184			DP184			DP185			DP185			DP185			DP185			DP185			DP185		
			SAMPLE NO	FFOR1030			FFOR1029-R			FFOR1031			FFOR1032			FFOR1033			FFOR1035			FFOR1036			FFOR1034-R		
			SAMPLE DATE	18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	20-21 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT			20-21 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	18.1	ND	U	1.73	ND	U	18.4	ND	U	1.97	ND	U	1.82	ND	U	2.02	ND	U	1.81	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	3.61	0.0207	J	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	3.61	0.0326	J	0.346	ND	U	3.67	0.0251	J	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	3.61	ND	U	0.346	ND	U	3.67	ND	U	0.394	ND	U	0.364	ND	U	0.404	ND	U	0.362	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	0.000868	J	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000181	J	0.00239	ND	U	0.00237	0.000955	J	0.004	0.00036	J	0.00456	0.000294	J	0.00236	0.000186	J	0.00246	0.000133	J	0.00204	ND	U	0.0018
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	0.000515	J	0.004	ND	U	0.00456	0.00014	J	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	1-CHLOROHEXANE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	2-BUTANONE	25.5	37,100	0.00368	J	0.00597	0.00502	J	0.00594	0.00853	J	0.01	0.006	J	0.0114	0.00326	J	0.0059	0.00388	J	0.00615	0.00214	J	0.0051	ND	U	0.00449
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	2-HEXANONE	NE	NE	ND	U	0.00597	ND	U	0.00594	ND	U	0.01	ND	U	0.0114	ND	U	0.0059	ND	U	0.00615	ND	U	0.0051	ND	U	0.00449
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0298	ND	U	0.0297	ND	UJ	0.05	ND	UJ	0.057	ND	UJ	0.0295	ND	UJ	0.0308	ND	UJ	0.0255	ND	U	0.0225
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0298	ND	U	0.0297	ND	UJ	0.05	ND	UJ	0.057	ND	UJ	0.0295	ND	UJ	0.0308	ND	UJ	0.0255	ND	U	0.0225
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00597	ND	U	0.00594	ND	U	0.01	ND	U	0.0114	ND	U	0.0059	ND	U	0.00615	ND	U	0.0051	ND	U	0.00449
	ACETONE	77.1	66,600	0.0176	J	0.0298	0.0302		0.0297	0.0381	J	0.05	0.0287	J	0.057	0.0148	J	0.0295	0.0203	J	0.0308	0.0108	J	0.0255	0.00725	J	0.0225
	BENZENE	0.0345	15.4	0.000555	J	0.00239	0.00032	J	0.00237	0.00216	J	0.004	0.000594	J	0.00456	0.000715	J	0.00236	0.000328	J	0.00246	0.000345	J	0.00204	0.000336	J	0.0018
	BROMOBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	BROMOFORM	12.1	6,116	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	BROMOMETHANE	0.0385	16.5	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CHLOROBENZENE	0.984	376	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CHLOROETHANE	107	29,800	ND	UJ	0.00239	ND	U	0.00237	ND	UJ	0.004	ND	UJ	0.00456	ND	UJ	0.00236	ND	UJ	0.00246	ND	UJ	0.00204	ND	U	0.0018
	CHLOROFORM	0.00918	5.86	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CHLOROMETHANE	0.879	275	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	ETHYLBENZENE	0.26	68.4	ND	U	0.00239	ND	U	0.00237	0.000757	J	0.004	ND	U	0.00456	0.000401	J	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00239	ND	U	0.00237	ND	UJ	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	M,P-XYLENES	NE	NE	ND	U	0.00477	ND	U	0.00475	0.00236	J	0.00801	ND	U	0.00912	0.000705	J	0.00472	ND	U	0.00492	ND	U	0.00408	ND	U	0.00359
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00597	ND	U	0.00594	ND	U	0.01	ND	U	0.0114	ND	U	0.0059	ND	U	0.00615	ND	U	0.0051	ND	U	0.00449
	NAPHTHALENE	0.0713	43.0	0.00191	J	0.00239	ND	U	0.00237	0.00337	J	0.004	0.0032	J	0.00456	0.00164	J	0.00236	0.00165	J	0.00246	ND	U	0.00204	ND	U	0.0018
	N-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	N-PROPYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	O-XYLENE	3.13	898	ND	U	0.00239	ND	U	0.00237	0.000664	J	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP184			DP184			DP185			DP185			DP185			DP185			DP185			DP185		
			SAMPLE NO	FFOR1030			FFOR1029-R			FFOR1031			FFOR1032			FFOR1033			FFOR1035			FFOR1036			FFOR1034-R		
			SAMPLE DATE	18-Jun-11			26-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			18-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	20-21 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			20-21 FT			20-21 FT			15-16 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	STYRENE	27.7	7,280	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TOLUENE	25.3	5,270	ND	U	0.00239	0.000914	J	0.00237	0.0039	J	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	VINYL ACETATE	1.52	2,560	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00239	ND	U	0.00237	ND	U	0.004	ND	U	0.00456	ND	U	0.00236	ND	U	0.00246	ND	U	0.00204	ND	U	0.0018
	XYLENES	3.13	814	ND	U	0.00716	ND	U	0.00712	0.00302	J	0.012	ND	U	0.0137	0.000705	J	0.00708	ND	U	0.00739	ND	U	0.00611	ND	U	0.00539
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.63		0.65	9.26		0.63	5.34	J-	0.67	3.68		1.43	4.41		0.66	4.88		0.73	5.18		0.66	6.65		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP186			DP186			DP186			DP186			DP186			DP187			DP187			DP187		
			SAMPLE NO	FFOR1037			FFOR1038			FFOR1039			FFOR1040			FFOR1041			FFOR1042			FFOR1043			FFOR1044		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.82	J	4.09	3.23	J	4.23	1.86	J	4.56	ND	U	4.78	ND	U	4.79	9.84		8.16	3.16	J	4.47	1.77	J	4.68
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.42	ND	U	5.11	ND	U	5.46	ND	U	6.92	ND	U	6.57	ND	U	5.15	ND	U	6.21	ND	U	6.88
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.684	ND	U	0.695	ND	U	0.752	ND	U	0.791	ND	U	0.796	ND	U	3.39	ND	U	0.733	ND	U	0.772
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	ANTHRACENE	5,410	17,200	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	0.025	J	0.342	0.015	J	0.347	0.0415	J	0.376	ND	U	0.396	ND	U	0.398	0.0865	J	1.69	ND	U	0.366	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.342	ND	U	0.347	0.0443	J	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	0.0286	J	0.342	ND	U	0.347	0.0472	J	0.376	ND	U	0.396	ND	U	0.398	0.0832	J	1.69	ND	U	0.366	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.342	ND	U	0.347	0.0427	J	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	0.025	J	0.366	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	CARBAZOLE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	CHRYSENE	160	147	0.0205	J	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	0.145	J	1.69	ND	U	0.366	ND	U	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	FLUORANTHENE	2,430	2,290	0.0306	J	0.342	0.0177	J	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	0.223	J	1.69	0.0108	J	0.366	ND	U	0.386
	FLUORENE	406	2,290	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP186			DP186			DP186			DP186			DP186			DP187			DP187			DP187		
			SAMPLE NO	FFOR1037			FFOR1038			FFOR1039			FFOR1040			FFOR1041			FFOR1042			FFOR1043			FFOR1044		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.71	ND	U	1.74	ND	U	1.88	ND	U	1.98	ND	U	1.99	ND	U	8.47	ND	U	1.83	ND	U	1.93
	PHENANTHRENE	571	1,830	0.0228	J	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	0.146	J	1.69	ND	U	0.366	ND	U	0.386
	PHENOL	99.5	18,300	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
	PYRENE	1,790	1,720	0.0275	J	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	0.172	J	1.69	ND	U	0.366	ND	U	0.386
	PYRIDINE	NE	NE	ND	U	0.342	ND	U	0.347	ND	U	0.376	ND	U	0.396	ND	U	0.398	ND	U	1.69	ND	U	0.366	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000778	J	0.00237	ND	U	0.00242	0.000932	J	0.00282	ND	U	0.00218	ND	U	0.00238	0.000478	J	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	1-CHLOROHEXANE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	2-BUTANONE	25.5	37,100	ND	U	0.00592	ND	U	0.00606	ND	U	0.00705	ND	U	0.00545	ND	U	0.00594	ND	U	0.00541	ND	U	0.00544	ND	U	0.00817
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	2-HEXANONE	NE	NE	ND	U	0.00592	ND	U	0.00606	ND	U	0.00705	ND	U	0.00545	ND	U	0.00594	ND	U	0.00541	ND	U	0.00544	ND	U	0.00817
	2-PROPENAL	0.000146	0.404	ND	U	0.0296	ND	U	0.0303	ND	U	0.0353	ND	U	0.0273	ND	U	0.0297	ND	U	0.027	ND	UJ	0.0272	ND	UJ	0.0408
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0296	ND	U	0.0303	ND	U	0.0353	ND	U	0.0273	ND	U	0.0297	ND	U	0.027	ND	U	0.0272	ND	U	0.0408
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00592	ND	U	0.00606	ND	U	0.00705	ND	U	0.00545	ND	U	0.00594	ND	U	0.00541	ND	U	0.00544	ND	U	0.00817
	ACETONE	77.1	66,600	0.0387		0.0296	0.0218	J	0.0303	0.0231	J	0.0353	0.0163	J	0.0273	0.0129	J	0.0297	0.0362		0.027	0.0132	J	0.0272	0.0253	J	0.0408
	BENZENE	0.0345	15.4	0.00158	J	0.00237	ND	U	0.00242	0.00202	J	0.00282	ND	U	0.00218	ND	U	0.00238	0.00161	J	0.00216	ND	U	0.00218	0.00398		0.00327
	BROMOBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	BROMOFORM	12.1	6,116	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	BROMOMETHANE	0.0385	16.5	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CHLOROBENZENE	0.984	376	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CHLOROETHANE	107	29,800	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CHLOROFORM	0.00918	5.86	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CHLOROMETHANE	0.879	275	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	ETHYLBENZENE	0.26	68.4	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	M,P-XYLENES	NE	NE	0.00185	J	0.00474	ND	U	0.00485	0.00198	J	0.00564	ND	U	0.00436	ND	U	0.00475	0.0012	J	0.00433	ND	U	0.00435	0.0029	J	0.00654
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00592	ND	U	0.00606	ND	U	0.00705	ND	U	0.00545	ND	U	0.00594	ND	U	0.00541	ND	U	0.00544	ND	U	0.00817
	NAPHTHALENE	0.0713	43.0	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	N-BUTYLBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	N-PROPYLBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	O-XYLENE	3.13	898	0.000531	J	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	0.000369	J	0.00216	ND	U	0.00218	ND	U	0.00327

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		LOCATION CODE		DP186			DP186			DP186			DP186			DP186			DP187			DP187			DP187		
		SAMPLE NO		FFOR1037			FFOR1038			FFOR1039			FFOR1040			FFOR1041			FFOR1042			FFOR1043			FFOR1044		
		SAMPLE DATE		17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	STYRENE	27.7	7,280	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TOLUENE	25.3	5,270	0.00249		0.00237	0.00101	J	0.00242	0.00295		0.00282	0.000604	J	0.00218	ND	U	0.00238	0.00246		0.00216	ND	U	0.00218	0.00573		0.00327
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	VINYL ACETATE	1.52	2,560	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00237	ND	U	0.00242	ND	U	0.00282	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00218	ND	U	0.00327
	XYLENES	3.13	814	0.00238	J	0.00711	ND	U	0.00727	0.00198	J	0.00846	ND	U	0.00654	ND	U	0.00713	0.00157	J	0.00649	ND	U	0.00653	0.0029	J	0.0098
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.69		0.62	7.72		0.64	8.06		0.68	4.68		0.71	4.9		0.73	9.12		0.62	5.28		0.67	7.67		0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP187			DP187			DP187			DP188			DP188			DP188			DP188			DP188		
			SAMPLE NO	FFOR1045			FFOR1046			FFOR1047			FFOR1050			FFOR1051			FFOR1048-R			FFOR1049-R			FFOR1052-R		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			10-11 FT			15-16 FT			0-1 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.49	ND	U	4.4	ND	U	4.6	ND	U	4.6	ND	U	4.29	ND	U	8.36	ND	U	4.43	2.71	J	4.36
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.41	ND	U	5.93	ND	U	7.93	ND	U	5.86	ND	U	4.61	ND	U	4.48	ND	U	6.05	ND	U	5.37
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,4-DINITROPHENOL	1.26	122	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2-CHLOROPHENOL	2.31	391	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2-METHYLPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	2-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.754	ND	U	0.728	ND	U	0.748	ND	U	0.746	ND	U	0.708	ND	U	0.699	ND	U	0.726	ND	U	0.717
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	3-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	4-CHLOROANILINE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	4-NITROANILINE	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	ACENAPHTHYLENE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	ANTHRACENE	5,410	17,200	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZENAMINE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.377	0.43		0.364	0.148	J	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	CARBAZOLE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	CHRYSENE	160	147	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DIBENZOFURAN	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DIETHYL PHTHALATE	193	48,900	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	FLUORANTHENE	2,430	2,290	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	0.00812	J	0.349	ND	U	0.363	ND	U	0.358
	FLUORENE	406	2,290	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	ISOPHORONE	3.84	5,120	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	NAPHTHALENE	0.0713	43.0	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	NITROBENZENE	0.0125	53.5	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP187			DP187			DP187			DP188			DP188			DP188			DP188			DP188		
			SAMPLE NO	FFOR1045			FFOR1046			FFOR1047			FFOR1050			FFOR1051			FFOR1048-R			FFOR1049-R			FFOR1052-R		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			10-11 FT			15-16 FT			0-1 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.88	ND	U	1.82	ND	U	1.87	ND	U	1.86	ND	U	1.77	ND	U	1.75	ND	U	1.81	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	PHENOL	99.5	18,300	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	PYRENE	1,790	1,720	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
	PYRIDINE	NE	NE	ND	U	0.377	ND	U	0.364	ND	U	0.374	ND	U	0.373	ND	U	0.354	ND	U	0.349	ND	U	0.363	ND	U	0.358
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	0.000726	J	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	0.000495	J	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	0.000144	J	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	0.000389	J	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	1-CHLOROHEXANE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	2-BUTANONE	25.5	37,100	ND	U	0.00597	ND	U	0.00519	ND	U	0.00727	ND	U	0.00572	0.00328	J	0.00666	0.00124	J	0.00461	ND	U	0.0065	0.00486	J	0.00637
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	2-HEXANONE	NE	NE	ND	U	0.00597	ND	U	0.00519	ND	U	0.00727	ND	U	0.00572	ND	U	0.00666	ND	U	0.00461	ND	U	0.0065	ND	U	0.00637
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0299	ND	U	0.0259	ND	U	0.0364	ND	U	0.0286	ND	UJ	0.0333	ND	U	0.0231	ND	U	0.0325	ND	U	0.0318
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0299	ND	U	0.0259	ND	U	0.0364	ND	U	0.0286	ND	UJ	0.0333	ND	U	0.0231	ND	U	0.0325	ND	U	0.0318
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00597	ND	U	0.00519	ND	U	0.00727	ND	U	0.00572	ND	U	0.00666	ND	U	0.00461	ND	U	0.0065	ND	U	0.00637
	ACETONE	77.1	66,600	0.00931	J	0.0299	0.0181	J	0.0259	0.0208	J	0.0364	0.0153	J	0.0286	0.0153	J	0.0333	0.0066	J-	0.0231	ND	U	0.0325	0.0192	J	0.0318
	BENZENE	0.0345	15.4	0.00244		0.00239	ND	U	0.00208	ND	U	0.00291	0.00172	J	0.00229	0.000143	J	0.00266	0.000667	J	0.00184	ND	U	0.0026	0.00113	J	0.00255
	BROMOBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	BROMOFORM	12.1	6,116	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	BROMOMETHANE	0.0385	16.5	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	0.00215	J	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CHLOROBENZENE	0.984	376	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CHLOROETHANE	107	29,800	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CHLOROFORM	0.00918	5.86	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CHLOROMETHANE	0.879	275	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	UJ	0.00184	ND	U	0.0026	ND	U	0.00255
	ETHYLBENZENE	0.26	68.4	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	0.000474	J	0.00229	ND	U	0.00266	ND	U	0.00184	0.000314	J	0.0026	0.000471	J	0.00255
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	M,P-XYLENES	NE	NE	0.00171	J	0.00478	ND	U	0.00415	ND	U	0.00582	0.00159	J	0.00458	ND	U	0.00532	0.000405	J	0.00369	ND	U	0.0052	0.000794	J	0.00509
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00597	ND	U	0.00519	ND	U	0.00727	ND	U	0.00572	ND	U	0.00666	ND	U	0.00461	ND	U	0.0065	ND	U	0.00637
	NAPHTHALENE	0.0713	43.0	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	0.00261	J	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	N-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	N-PROPYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	O-XYLENE	3.13	898	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	0.000453	J	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP187			DP187			DP187			DP188			DP188			DP188			DP188			DP188		
			SAMPLE NO	FFOR1045			FFOR1046			FFOR1047			FFOR1050			FFOR1051			FFOR1048-R			FFOR1049-R			FFOR1052-R		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			26-Jun-11			26-Jun-11			26-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			10-11 FT			15-16 FT			0-1 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	STYRENE	27.7	7,280	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TOLUENE	25.3	5,270	0.00385		0.00239	0.000729	J	0.00208	0.000961	J	0.00291	0.00236		0.00229	0.000681	J	0.00266	0.001	J	0.00184	ND	U	0.0026	0.00199	J	0.00255
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	VINYL ACETATE	1.52	2,560	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00239	ND	U	0.00208	ND	U	0.00291	ND	U	0.00229	ND	U	0.00266	ND	U	0.00184	ND	U	0.0026	ND	U	0.00255
	XYLENES	3.13	814	0.00171	J	0.00717	ND	U	0.00623	ND	U	0.00873	0.00204	J	0.00687	ND	U	0.00799	0.000504	J	0.00553	ND	U	0.0078	0.000794	J	0.00764
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.3		0.69	4.73		0.66	4.6		0.68	7.41		0.69	3.89		0.65	7.62		0.64	4.24		0.67	4.64		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP189			DP189			DP189			DP189			DP189			DP189			DP190			DP190		
			SAMPLE NO	FFOR1053			FFOR1054			FFOR1055			FFOR1056			FFOR1057			FFOR1058			FFOR1059			FFOR1060		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.32		4.23	ND	U	5.13	1.98	J	4.47	ND	U	4.5	ND	U	4.78	ND	U	4.94	6.58		4.39	7.4		4.2
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.06	ND	U	6.85	ND	U	7.77	ND	U	6.08	ND	U	9.06	ND	U	7.79	ND	U	5.93	ND	U	4.8
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2-CHLOROPHENOL	2.31	391	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.701	ND	U	0.838	ND	U	0.734	ND	U	0.745	ND	U	0.786	ND	U	0.801	ND	U	0.73	ND	U	0.7
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	4-CHLOROANILINE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	ACENAPHTHENE	338	3,440	0.0168	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	ACENAPHTHYLENE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	ANTHRACENE	5,410	17,200	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BENZENAMINE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BENZO(A)ANTHRACENE	1.57	1.48	0.111	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BENZO(A)PYRENE	0.52	0.148	0.0898	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	BENZO(B)FLUORANTHENE	5.31	1.48	0.113	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	BENZO(GHI)PERYLENE	NE	NE	0.0953	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0527	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	CARBAZOLE	NE	NE	0.0327	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	CHRYSENE	160	147	0.122	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	0.019	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	DIBENZOFURAN	NE	NE	0.0121	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	DIETHYL PHTHALATE	193	48,900	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	FLUORANTHENE	2,430	2,290	0.259	J	0.35	0.0125	J	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	0.0153	J	0.365	0.0177	J	0.35
	FLUORENE	406	2,290	0.0175	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0753	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	1.82	ND	U	3.5
	ISOPHORONE	3.84	5,120	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	NAPHTHALENE	0.0713	43.0	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	NITROBENZENE	0.0125	53.5	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP189			DP189			DP189			DP189			DP189			DP189			DP190			DP190		
			SAMPLE NO	FFOR1053			FFOR1054			FFOR1055			FFOR1056			FFOR1057			FFOR1058			FFOR1059			FFOR1060		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	2.1	ND	U	1.84	ND	U	1.86	ND	U	1.96	ND	U	2	ND	U	1.82	ND	U	1.75
	PHENANTHRENE	571	1,830	0.175	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	PHENOL	99.5	18,300	ND	U	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	PYRENE	1,790	1,720	0.178	J	0.35	ND	U	0.419	ND	U	0.367	ND	U	0.373	ND	U	0.393	ND	U	0.401	ND	U	0.365	ND	U	0.35
	PYRIDINE	NE	NE	ND	UJ	0.35	ND	UJ	0.419	ND	UJ	0.367	ND	UJ	0.373	ND	UJ	0.393	ND	UJ	0.401	ND	UJ	0.365	ND	UJ	0.35
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	0.000622	J	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	1-CHLOROHEXANE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	2-BUTANONE	25.5	37,100	ND	U	0.00523	ND	U	0.00664	ND	U	0.00603	ND	U	0.00674	ND	U	0.00617	ND	U	0.00742	ND	U	0.00897	ND	U	0.00483
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	2-HEXANONE	NE	NE	ND	U	0.00523	ND	U	0.00664	ND	U	0.00603	ND	U	0.00674	ND	U	0.00617	ND	U	0.00742	ND	U	0.00897	ND	U	0.00483
	2-PROPENAL	0.000146	0.404	ND	U	0.0262	ND	UJ	0.0332	ND	U	0.0301	ND	UJ	0.0337	ND	UJ	0.0308	ND	UJ	0.0371	ND	UJ	0.0449	ND	UJ	0.0242
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0262	ND	U	0.0332	ND	U	0.0301	ND	U	0.0337	ND	UJ	0.0308	ND	UJ	0.0371	ND	UJ	0.0449	ND	UJ	0.0242
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00523	ND	U	0.00664	ND	U	0.00603	ND	U	0.00674	ND	U	0.00617	ND	U	0.00742	ND	U	0.00897	ND	U	0.00483
	ACETONE	77.1	66,600	0.00252	J	0.0262	0.0255	J	0.0332	0.0116	J	0.0301	0.0219	J	0.0337	0.00922	J	0.0308	0.0186	J	0.0371	0.0419	J	0.0449	0.0258		0.0242
	BENZENE	0.0345	15.4	ND	U	0.00209	ND	U	0.00266	0.00154	J	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	BROMOBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	BROMOFORM	12.1	6,116	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	BROMOMETHANE	0.0385	16.5	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CHLOROBENZENE	0.984	376	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CHLOROETHANE	107	29,800	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CHLOROFORM	0.00918	5.86	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CHLOROMETHANE	0.879	275	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	ETHYLBENZENE	0.26	68.4	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	M,P-XYLENES	NE	NE	ND	U	0.00419	ND	U	0.00531	0.00154	J	0.00482	ND	U	0.00539	ND	U	0.00493	ND	U	0.00594	ND	U	0.00718	ND	U	0.00387
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	METHYLENE CHLORIDE	0.824	409	0.0014	J	0.00523	ND	U	0.00664	ND	U	0.00603	ND	U	0.00674	ND	U	0.00617	ND	U	0.00742	ND	U	0.00897	ND	U	0.00483
	NAPHTHALENE	0.0713	43.0	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	N-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	N-PROPYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	O-XYLENE	3.13	898	ND	U	0.00209	ND	U	0.00266	0.00042	J	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP189			DP189			DP189			DP189			DP189			DP189			DP190			DP190		
		SAMPLE NO		FFOR1053			FFOR1054			FFOR1055			FFOR1056			FFOR1057			FFOR1058			FFOR1059			FFOR1060		
		SAMPLE DATE		17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	STYRENE	27.7	7,280	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TOLUENE	25.3	5,270	ND	U	0.00209	ND	U	0.00266	0.00233	J	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	0.00181	J	0.00359	0.000864	J	0.00193
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	VINYL ACETATE	1.52	2,560	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00209	ND	U	0.00266	ND	U	0.00241	ND	U	0.0027	ND	U	0.00247	ND	U	0.00297	ND	U	0.00359	ND	U	0.00193
	XYLENES	3.13	814	ND	U	0.00628	ND	U	0.00797	0.00196	J	0.00723	ND	U	0.00809	ND	U	0.0074	ND	U	0.0089	ND	U	0.0108	ND	U	0.0058
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.58		0.64	5.65		0.76	6.63	J-	0.67	4.73		0.68	4.59		0.72	4.79		0.73	6.38		0.66	8.36		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP190			DP190			DP190			DP190			DP191			DP191			DP191			DP191		
		SAMPLE NO		FFOR1061			FFOR1062			FFOR1063			FFOR1064			FFOR1065			FFOR1066			FFOR1067			FFOR1068		
		SAMPLE DATE		17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.32	ND	U	4.62	ND	U	4.32	ND	U	4.39	7.08		4.12	11.4		4.43	7.11		4.33	ND	U	4.72
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.55	ND	U	6.19	ND	U	5.15	ND	U	5.95	0.776	J	4.77	ND	U	6.2	ND	U	5.36	ND	U	5.75
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.7	ND	U	0.763	ND	U	0.71	ND	U	0.716	ND	U	3.4	ND	U	0.733	ND	U	0.726	ND	U	0.771
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	ANTHRACENE	5,410	17,200	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	0.0117	J	0.363	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	CARBAZOLE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	CHRYSENE	160	147	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	0.121	J	1.7	ND	U	0.367	0.0176	J	0.363	ND	U	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	ND	U	0.363	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	FLUORANTHENE	2,430	2,290	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	0.248	J	1.7	0.021	J	0.367	0.0362	J	0.363	0.00813	J	0.386
	FLUORENE	406	2,290	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	17	ND	U	0.367	ND	U	0.363	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP190			DP190			DP190			DP190			DP191			DP191			DP191			DP191		
			SAMPLE NO	FFOR1061			FFOR1062			FFOR1063			FFOR1064			FFOR1065			FFOR1066			FFOR1067			FFOR1068		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.91	ND	U	1.78	ND	U	1.79	ND	U	8.49	ND	U	1.83	ND	U	1.81	ND	U	1.93
	PHENANTHRENE	571	1,830	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	0.178	J	1.7	0.0152	J	0.367	0.0265	J	0.363	ND	U	0.386
	PHENOL	99.5	18,300	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	ND	U	1.7	ND	U	0.367	ND	U	0.363	ND	U	0.386
	PYRENE	1,790	1,720	ND	U	0.35	ND	U	0.381	ND	U	0.355	ND	U	0.358	0.138	J	1.7	ND	U	0.367	0.0225	J	0.363	ND	U	0.386
	PYRIDINE	NE	NE	ND	UJ	0.35	ND	UJ	0.381	ND	UJ	0.355	ND	UJ	0.358	ND	UJ	1.7	ND	UJ	0.367	ND	UJ	0.363	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	UJ	0.0027
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	0.000661	J	0.0027
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	1-CHLOROHEXANE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	2-BUTANONE	25.5	37,100	ND	U	0.00605	ND	U	0.00591	ND	U	0.00572	ND	U	0.00731	ND	U	0.00559	ND	U	0.0062	ND	U	0.00562	ND	U	0.00674
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	2-HEXANONE	NE	NE	ND	U	0.00605	ND	U	0.00591	ND	U	0.00572	ND	U	0.00731	ND	U	0.00559	ND	U	0.0062	ND	U	0.00562	ND	U	0.00674
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0302	ND	UJ	0.0295	ND	UJ	0.0286	ND	UJ	0.0365	ND	UJ	0.028	ND	UJ	0.031	ND	UJ	0.0281	ND	UJ	0.0337
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0302	ND	UJ	0.0295	ND	UJ	0.0286	ND	UJ	0.0365	ND	UJ	0.028	ND	UJ	0.031	ND	UJ	0.0281	ND	UJ	0.0337
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00605	ND	U	0.00591	ND	U	0.00572	ND	U	0.00731	ND	U	0.00559	ND	U	0.0062	ND	U	0.00562	ND	U	0.00674
	ACETONE	77.1	66,600	0.0221	J	0.0302	0.0129	J	0.0295	0.0226	J	0.0286	0.0235	J	0.0365	0.0465		0.028	0.0145	J	0.031	0.0136	J	0.0281	0.0178	J	0.0337
	BENZENE	0.0345	15.4	ND	U	0.00242	0.00201	J	0.00236	ND	U	0.00229	ND	U	0.00292	0.000801	J	0.00224	ND	U	0.00248	ND	U	0.00225	0.00165	J	0.0027
	BROMOBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	BROMOFORM	12.1	6,116	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	BROMOMETHANE	0.0385	16.5	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	UJ	0.0027
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CHLOROBENZENE	0.984	376	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CHLOROETHANE	107	29,800	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CHLOROFORM	0.00918	5.86	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CHLOROMETHANE	0.879	275	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	ETHYLBENZENE	0.26	68.4	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	0.000654	J	0.0027
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	M,P-XYLENES	NE	NE	ND	U	0.00484	ND	U	0.00473	ND	U	0.00457	ND	U	0.00585	ND	U	0.00448	ND	U	0.00496	ND	U	0.0045	0.00166	J	0.00539
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00605	ND	U	0.00591	ND	U	0.00572	ND	U	0.00731	ND	U	0.00559	ND	U	0.0062	ND	U	0.00562	ND	U	0.00674
	NAPHTHALENE	0.0713	43.0	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	N-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	N-PROPYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	O-XYLENE	3.13	898	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	0.000509	J	0.0027

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP190			DP190			DP190			DP190			DP191			DP191			DP191			DP191		
			SAMPLE NO	FFOR1061			FFOR1062			FFOR1063			FFOR1064			FFOR1065			FFOR1066			FFOR1067			FFOR1068		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	STYRENE	27.7	7,280	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TOLUENE	25.3	5,270	ND	U	0.00242	0.00279		0.00236	ND	U	0.00229	ND	U	0.00292	0.00143	J	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	VINYL ACETATE	1.52	2,560	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00242	ND	U	0.00236	ND	U	0.00229	ND	U	0.00292	ND	U	0.00224	ND	U	0.00248	ND	U	0.00225	ND	U	0.0027
	XYLENES	3.13	814	ND	U	0.00726	ND	U	0.00709	ND	U	0.00686	ND	U	0.00877	ND	U	0.00671	ND	U	0.00744	ND	U	0.00675	0.00217	J	0.00809
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.59		0.65	8.16		0.69	3.85		0.65	4.63		0.66	11.3		0.62	5.79		0.67	6.2		0.66	7.17	J-	0.71

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP191			DP191			DP192			DP192			DP192			DP192			DP192			DP193		
			SAMPLE NO	FFOR1069			FFOR1070			FFOR1071			FFOR1072			FFOR1073			FFOR1074			FFOR1075			FFOR1076		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	8.78		4.43	ND	U	4.27	12.5		8.56	ND	U	4.4	ND	U	4.61	ND	U	4.28	ND	U	4.31	17.1		4.05
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.99	ND	U	4.95	ND	U	6.43	ND	U	5.04	ND	U	5.66	ND	U	5.92	ND	U	6.04	ND	U	4.95
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2-CHLOROPHENOL	2.31	391	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0105	J	0.34
	2-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.735	ND	U	0.705	ND	U	0.706	ND	U	0.725	ND	U	0.761	ND	U	0.708	ND	U	0.709	ND	U	6.8
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	4-CHLOROANILINE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0525	J	0.34
	ACENAPHTHYLENE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	ANTHRACENE	5,410	17,200	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.165	J	0.34
	BENZENAMINE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.29	J	3.4
	BENZO(A)PYRENE	0.52	0.148	0.0151	J	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.174	J	3.4
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0222	J	0.368	ND	U	0.352	0.0227	J	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	CARBAZOLE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.147	J	0.34
	CHRYSENE	160	147	0.0231	J	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.39	J	3.4
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	DIBENZOFURAN	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0425	J	0.34
	DIETHYL PHTHALATE	193	48,900	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0742	J	0.34
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	FLUORANTHENE	2,430	2,290	0.0496	J	0.368	0.0129	J	0.352	0.00891	J	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	1.25		0.34
	FLUORENE	406	2,290	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0752	J	0.34
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.368	ND	U	0.352	ND	U	3.53	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	3.4
	ISOPHORONE	3.84	5,120	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	NAPHTHALENE	0.0713	43.0	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.0231	J	0.34
	NITROBENZENE	0.0125	53.5	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP191			DP191			DP192			DP192			DP192			DP192			DP192			DP193		
			SAMPLE NO	FFOR1069			FFOR1070			FFOR1071			FFOR1072			FFOR1073			FFOR1074			FFOR1075			FFOR1076		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.76	ND	U	1.77	ND	U	1.81	ND	U	1.9	ND	U	1.77	ND	U	1.77	ND	U	1.7
	PHENANTHRENE	571	1,830	0.0372	J	0.368	0.0125	J	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.602		0.34
	PHENOL	99.5	18,300	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
	PYRENE	1,790	1,720	0.035	J	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	0.599	J	3.4
	PYRIDINE	NE	NE	ND	U	0.368	ND	U	0.352	ND	U	0.353	ND	U	0.363	ND	U	0.381	ND	U	0.354	ND	U	0.355	ND	U	0.34
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	1-CHLOROHEXANE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	2-BUTANONE	25.5	37,100	ND	U	0.0059	ND	U	0.00578	ND	U	0.00508	ND	U	0.00677	ND	U	0.00553	ND	U	0.00564	ND	U	0.00594	ND	U	0.00526
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	2-HEXANONE	NE	NE	ND	U	0.0059	ND	U	0.00578	ND	U	0.00508	ND	U	0.00677	ND	U	0.00553	ND	U	0.00564	ND	U	0.00594	ND	U	0.00526
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0295	ND	UJ	0.0289	ND	UJ	0.0254	ND	UJ	0.0339	ND	UJ	0.0277	ND	UJ	0.0282	ND	UJ	0.0297	ND	UJ	0.0263
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0295	ND	UJ	0.0289	ND	UJ	0.0254	ND	UJ	0.0339	ND	UJ	0.0277	ND	UJ	0.0282	ND	UJ	0.0297	ND	UJ	0.0263
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0059	ND	U	0.00578	ND	U	0.00508	ND	U	0.00677	ND	U	0.00553	ND	U	0.00564	ND	U	0.00594	ND	U	0.00526
	ACETONE	77.1	66,600	0.0147	J	0.0295	0.0358		0.0289	0.019	J	0.0254	0.0246	J	0.0339	0.00661	J	0.0277	0.0207	J	0.0282	0.0315		0.0297	0.0342		0.0263
	BENZENE	0.0345	15.4	ND	U	0.00236	0.000975	J	0.00231	ND	U	0.00203	ND	U	0.00271	0.00146	J	0.00221	ND	U	0.00226	0.000913	J	0.00237	0.000578	J	0.0021
	BROMOBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	BROMOFORM	12.1	6,116	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	BROMOMETHANE	0.0385	16.5	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CHLOROBENZENE	0.984	376	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CHLOROETHANE	107	29,800	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CHLOROFORM	0.00918	5.86	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CHLOROMETHANE	0.879	275	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	ETHYLBENZENE	0.26	68.4	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	M,P-XYLENES	NE	NE	ND	U	0.00472	ND	U	0.00462	ND	U	0.00406	ND	U	0.00542	ND	U	0.00443	ND	U	0.00451	ND	U	0.00475	0.000471	J	0.00421
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0059	ND	U	0.00578	ND	U	0.00508	ND	U	0.00677	ND	U	0.00553	ND	U	0.00564	ND	U	0.00594	ND	U	0.00526
	NAPHTHALENE	0.0713	43.0	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	N-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	N-PROPYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	O-XYLENE	3.13	898	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP191			DP191			DP192			DP192			DP192			DP192			DP192			DP193		
			SAMPLE NO	FFOR1069			FFOR1070			FFOR1071			FFOR1072			FFOR1073			FFOR1074			FFOR1075			FFOR1076		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	STYRENE	27.7	7,280	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TOLUENE	25.3	5,270	ND	U	0.00236	0.00141	J	0.00231	ND	U	0.00203	ND	U	0.00271	0.00211	J	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	VINYL ACETATE	1.52	2,560	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00236	ND	U	0.00231	ND	U	0.00203	ND	U	0.00271	ND	U	0.00221	ND	U	0.00226	ND	U	0.00237	ND	U	0.0021
	XYLENES	3.13	814	ND	U	0.00708	ND	U	0.00693	ND	U	0.00609	ND	U	0.00813	ND	U	0.00664	ND	U	0.00677	ND	U	0.00712	0.000471	J	0.00631
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.87		0.67	4.36		0.64	6.35		0.64	4.84		0.66	7.97		0.69	4.22		0.65	4.85		0.65	15.7		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP193			DP193			DP193			DP193			DP193			DP194			DP194			DP194		
			SAMPLE NO	FFOR1077			FFOR1078			FFOR1079			FFOR1080			FFOR1081			FFOR1082			FFOR1083			FFOR1084		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.66	ND	U	4.64	ND	U	4.61	ND	U	4.39	ND	U	4.48	ND	U	4.19	ND	U	4.57	1.53	J	4.44
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.5	ND	U	9.42	ND	U	8.14	ND	U	5.29	ND	U	6.62	ND	U	4.3	ND	U	5.04	ND	U	3.76
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	0.0453	J	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.59	ND	U	0.766	ND	U	0.761	ND	U	0.726	ND	U	0.734	ND	U	0.685	ND	U	0.754	ND	U	0.73
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	ACENAPHTHENE	338	3,440	0.178	J	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	ANTHRACENE	5,410	17,200	0.522		0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	0.719	J	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	**0.506**	J	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	0.524	J	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	0.432	J	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	CARBAZOLE	NE	NE	0.43		0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	CHRYSENE	160	147	0.779	J	3.8	0.0171	J	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	DIBENZOFURAN	NE	NE	0.145	J	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	FLUORANTHENE	2,430	2,290	3.2		0.38	0.0354	J	0.383	0.0148	J	0.38	ND	U	0.363	ND	U	0.367	0.0144	J	0.343	ND	U	0.377	ND	U	0.365
	FLUORENE	406	2,290	0.26	J	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.8	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	3.43	ND	U	0.377	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	**0.191**	J	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP193			DP193			DP193			DP193			DP193			DP194			DP194			DP194		
			SAMPLE NO	FFOR1077			FFOR1078			FFOR1079			FFOR1080			FFOR1081			FFOR1082			FFOR1083			FFOR1084		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.9	ND	U	1.92	ND	U	1.9	ND	U	1.82	ND	U	1.84	ND	U	1.71	ND	U	1.89	ND	U	1.82
	PHENANTHRENE	571	1,830	1.82		0.38	0.0309	J	0.383	0.0143	J	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	PYRENE	1,790	1,720	1.4	J	3.8	0.0283	J	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
	PYRIDINE	NE	NE	ND	U	0.38	ND	U	0.383	ND	U	0.38	ND	U	0.363	ND	U	0.367	ND	U	0.343	ND	U	0.377	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00272	0.00143	J	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	1-CHLOROHEXANE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	2-BUTANONE	25.5	37,100	ND	U	0.0068	ND	U	0.008	0.00456	J	0.00729	ND	U	0.00771	0.00271	J	0.00621	ND	U	0.00504	ND	U	0.00578	ND	U	0.00456
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	2-HEXANONE	NE	NE	ND	U	0.0068	ND	U	0.008	ND	U	0.00729	ND	U	0.00771	ND	U	0.00621	ND	U	0.00504	ND	U	0.00578	ND	U	0.00456
	2-PROPENAL	0.000146	0.404	ND	UJ	0.034	ND	UJ	0.04	ND	UJ	0.0365	ND	UJ	0.0386	ND	UJ	0.031	ND	UJ	0.0252	ND	UJ	0.0289	ND	UJ	0.0228
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.034	ND	UJ	0.04	ND	U	0.0365	ND	UJ	0.0386	ND	U	0.031	ND	U	0.0252	ND	U	0.0289	ND	U	0.0228
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0068	ND	U	0.008	ND	U	0.00729	ND	U	0.00771	ND	U	0.00621	ND	U	0.00504	ND	U	0.00578	ND	U	0.00456
	ACETONE	77.1	66,600	0.0313	J	0.034	0.0367	J	0.04	0.0211	J	0.0365	0.0261	J	0.0386	0.0141	J	0.031	0.0126	J	0.0252	0.0112	J	0.0289	0.00977	J	0.0228
	BENZENE	0.0345	15.4	ND	U	0.00272	0.00397		0.0032	ND	U	0.00292	ND	U	0.00308	ND	UJ	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	BROMOBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	BROMOFORM	12.1	6,116	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	BROMOMETHANE	0.0385	16.5	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CHLOROBENZENE	0.984	376	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CHLOROETHANE	107	29,800	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CHLOROFORM	0.00918	5.86	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CHLOROMETHANE	0.879	275	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	ETHYLBENZENE	0.26	68.4	ND	U	0.00272	0.00103	J	0.0032	0.00082	J	0.00292	ND	U	0.00308	0.000285	J	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	M,P-XYLENES	NE	NE	ND	U	0.00544	0.00345	J	0.0064	0.00263	J	0.00584	ND	U	0.00617	ND	U	0.00497	ND	U	0.00403	ND	U	0.00463	ND	U	0.00365
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0068	ND	U	0.008	ND	U	0.00729	ND	U	0.00771	ND	U	0.00621	ND	U	0.00504	ND	U	0.00578	ND	U	0.00456
	NAPHTHALENE	0.0713	43.0	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	N-BUTYLBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	N-PROPYLBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	O-XYLENE	3.13	898	ND	U	0.00272	0.000961	J	0.0032	0.000607	J	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182

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			LOCATION CODE	DP193			DP193			DP193			DP193			DP193			DP194			DP194			DP194		
			SAMPLE NO	FFOR1077			FFOR1078			FFOR1079			FFOR1080			FFOR1081			FFOR1082			FFOR1083			FFOR1084		
			SAMPLE DATE	17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			17-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	STYRENE	27.7	7,280	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TOLUENE	25.3	5,270	ND	U	0.00272	0.00132	J	0.0032	0.00493		0.00292	ND	U	0.00308	ND	UJ	0.00248	ND	U	0.00202	ND	U	0.00231	0.00137	J	0.00182
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00272	ND	U	0.0032	ND	UJ	0.00292	ND	U	0.00308	ND	UJ	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	VINYL ACETATE	1.52	2,560	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00272	ND	U	0.0032	ND	U	0.00292	ND	U	0.00308	ND	U	0.00248	ND	U	0.00202	ND	U	0.00231	ND	U	0.00182
	XYLENES	3.13	814	ND	U	0.00816	0.00441	J	0.00961	0.00324	J	0.00875	ND	U	0.00925	ND	U	0.00745	ND	U	0.00605	ND	U	0.00694	ND	U	0.00547
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.94		0.7	8.73		0.7	8.4		0.69	4.5		0.66	4.76		0.68	9.49		0.63	6.03		0.69	5.65		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP194			DP194			DP195			DP195			DP195			DP195			DP195			DP195		
			SAMPLE NO	FFOR1085			FFOR1086			FFOR1087			FFOR1088			FFOR1089			FFOR1090			FFOR1091			FFOR1092		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.41	ND	U	5.07	6.07		5.48	4.93		4.2	ND	U	4.59	1.5	J	4.37	ND	U	5.27	ND	U	4.44
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.65	ND	U	6.35	ND	U	10.5	ND	U	5.4	ND	U	6.28	ND	U	4.99	ND	U	4.92	ND	U	3.81
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.831	ND	U	0.896	ND	U	0.7	ND	U	0.758	ND	U	0.718	ND	U	0.864	ND	U	0.737
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0228	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.416	0.0195	J	0.448	0.0449	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.416	0.0498	J	0.448	0.0989	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.416	0.0487	J	0.448	0.0911	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	UJ	0.416	0.0623	J	0.448	0.106	J	0.35	ND	UJ	0.379	ND	UJ	0.359	ND	UJ	0.432	ND	UJ	0.368
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.416	0.0428	J	0.448	0.0435	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.416	0.0209	J	0.448	0.0542	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	0.049	J	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.416	0.0579	J	0.448	0.101	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0159	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0261	J	0.35	0.0292	J	0.379	0.0323	J	0.359	0.0596	J	0.432	ND	U	0.368
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.416	0.108	J	0.448	0.204	J	0.35	0.0112	J	0.379	0.00915	J	0.359	ND	U	0.432	ND	U	0.368
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0209	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	UJ	0.416	ND	U	0.448	ND	U	0.35	ND	UJ	0.379	ND	UJ	0.359	ND	UJ	0.432	ND	UJ	0.368
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0423	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.416	ND	U	0.448	0.0195	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP194			DP194			DP195			DP195			DP195			DP195			DP195			DP195		
				SAMPLE NO	FFOR1085			FFOR1086			FFOR1087			FFOR1088			FFOR1089			FFOR1090			FFOR1091			FFOR1092		
				SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	2.08	ND	U	2.24	ND	U	1.75	ND	U	1.9	ND	U	1.8	ND	U	2.16	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.416	0.0898	J	0.448	0.187	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.416	0.112	J	0.448	0.144	J	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.416	ND	U	0.448	ND	U	0.35	ND	U	0.379	ND	U	0.359	ND	U	0.432	ND	U	0.368
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00215	ND	U	0.00194	ND	UJ	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	0.000622	J	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	1-CHLOROHEXANE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	UJ	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	2-BUTANONE	25.5	37,100	ND	U	0.00537	ND	U	0.00485	ND	U	0.0128	0.00204	J	0.00528	ND	U	0.00609	0.00293	J	0.00542	ND	U	0.00476	ND	U	0.0042
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	2-HEXANONE	NE	NE	ND	U	0.00537	ND	U	0.00485	ND	U	0.0128	ND	U	0.00528	ND	U	0.00609	ND	U	0.00542	ND	U	0.00476	ND	U	0.0042
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0268	ND	UJ	0.0243	ND	UJ	0.0639	ND	UJ	0.0264	ND	UJ	0.0305	ND	UJ	0.0271	ND	UJ	0.0238	ND	UJ	0.021
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0268	ND	U	0.0243	ND	U	0.0639	ND	U	0.0264	ND	U	0.0305	ND	U	0.0271	ND	U	0.0238	ND	U	0.021
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00537	ND	U	0.00485	ND	U	0.0128	ND	U	0.00528	ND	U	0.00609	ND	U	0.00542	ND	U	0.00476	ND	U	0.0042
	ACETONE	77.1	66,600	0.018	J	0.0268	0.0146	J	0.0243	0.0528	J	0.0639	0.00863	J	0.0264	0.0209	J	0.0305	0.0113	J	0.0271	0.00748	J	0.0238	0.00457	J	0.021
	BENZENE	0.0345	15.4	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	0.00234	J	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	BROMOBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	BROMOFORM	12.1	6,116	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	BROMOMETHANE	0.0385	16.5	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CHLOROBENZENE	0.984	376	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CHLOROETHANE	107	29,800	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CHLOROFORM	0.00918	5.86	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CHLOROMETHANE	0.879	275	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	ETHYLBENZENE	0.26	68.4	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	0.000719	J	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00215	ND	U	0.00194	ND	UJ	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	M,P-XYLENES	NE	NE	ND	U	0.00429	ND	U	0.00388	ND	U	0.0102	ND	U	0.00423	0.00162	J	0.00487	ND	U	0.00433	ND	U	0.00381	ND	U	0.00336
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00537	ND	U	0.00485	ND	U	0.0128	ND	U	0.00528	ND	U	0.00609	ND	U	0.00542	ND	U	0.00476	ND	U	0.0042
	NAPHTHALENE	0.0713	43.0	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	N-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	UJ	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	N-PROPYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	O-XYLENE	3.13	898	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP194			DP194			DP195			DP195			DP195			DP195			DP195			DP195		
			SAMPLE NO	FFOR1085			FFOR1086			FFOR1087			FFOR1088			FFOR1089			FFOR1090			FFOR1091			FFOR1092		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	UJ	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	STYRENE	27.7	7,280	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TOLUENE	25.3	5,270	ND	U	0.00215	0.00111	J	0.00194	0.00195	J	0.00511	0.000563	J	0.00211	0.00362		0.00244	0.000781	J	0.00217	0.000615	J	0.0019	0.000372	J	0.00168
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	VINYL ACETATE	1.52	2,560	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00215	ND	U	0.00194	ND	U	0.00511	ND	U	0.00211	ND	U	0.00244	ND	U	0.00217	ND	U	0.0019	ND	U	0.00168
	XYLENES	3.13	814	ND	U	0.00644	ND	U	0.00583	ND	U	0.0153	ND	U	0.00634	0.00162	J	0.00731	ND	U	0.0065	ND	U	0.00571	ND	U	0.00504
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.25		0.66	4.77		0.75	10.7	J-	0.83	9.91		0.63	6.02		0.7	5.4		0.66	4.46		0.8	4.59		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP196			DP196			DP196			DP196			DP196			DP197			DP197			DP197		
			SAMPLE NO	FFOR1093			FFOR1094			FFOR1095			FFOR1096			FFOR1097			FFOR1098			FFOR1099			FFOR1101		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.06	J	4.4	ND	U	4.4	ND	U	4.37	ND	U	4.3	ND	U	5.21	2.12	J	4.29	ND	U	4.49	ND	U	4.46
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.79	ND	U	4.95	ND	U	4.68	ND	U	4.11	ND	U	5.12	ND	U	6.42	ND	U	5.68	ND	U	5.74
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.736	ND	U	0.723	ND	U	0.703	ND	U	0.859	ND	U	0.715	ND	U	0.738	ND	U	0.734
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	0.0171	J	0.358	ND	U	0.369	ND	U	0.367
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	UJ	0.361	ND	UJ	0.368	ND	UJ	0.362	ND	UJ	0.351	ND	UJ	0.43	ND	UJ	0.358	ND	UJ	0.369	ND	UJ	0.367
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	0.0279	J	0.358	ND	U	0.369	ND	U	0.367
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	0.248	J	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	0.0209	J	0.358	ND	U	0.369	ND	U	0.367
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	0.0195	J	0.358	ND	U	0.369	ND	U	0.367
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	UJ	0.361	ND	UJ	0.368	ND	UJ	0.362	ND	UJ	0.351	ND	UJ	0.43	ND	UJ	0.358	ND	UJ	0.369	ND	UJ	0.367
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367

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		LOCATION CODE		DP196			DP196			DP196			DP196			DP196			DP197			DP197			DP197		
		SAMPLE NO		FFOR1093			FFOR1094			FFOR1095			FFOR1096			FFOR1097			FFOR1098			FFOR1099			FFOR1101		
		SAMPLE DATE		16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.84	ND	U	1.81	ND	U	1.76	ND	U	2.15	ND	U	1.79	ND	U	1.84	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	0.0204	J	0.358	ND	U	0.369	ND	U	0.367
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.362	ND	U	0.351	ND	U	0.43	ND	U	0.358	ND	U	0.369	ND	U	0.367
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	1-CHLOROHEXANE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	2-BUTANONE	25.5	37,100	ND	U	0.00512	ND	U	0.00492	ND	U	0.00382	ND	U	0.00569	0.00259	J	0.00484	ND	U	0.00509	0.00237	J	0.00484	ND	U	0.00655
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	2-HEXANONE	NE	NE	ND	U	0.00512	ND	U	0.00492	ND	U	0.00382	ND	U	0.00569	ND	U	0.00484	ND	U	0.00509	ND	U	0.00484	ND	U	0.00655
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0256	ND	UJ	0.0246	ND	UJ	0.0191	ND	UJ	0.0284	ND	UJ	0.0242	ND	UJ	0.0255	ND	UJ	0.0242	ND	UJ	0.0328
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0256	ND	U	0.0246	ND	U	0.0191	ND	U	0.0284	ND	U	0.0242	ND	U	0.0255	ND	U	0.0242	ND	U	0.0328
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00512	ND	U	0.00492	ND	U	0.00382	ND	U	0.00569	ND	U	0.00484	ND	U	0.00509	ND	U	0.00484	ND	U	0.00655
	ACETONE	77.1	66,600	0.0229	J	0.0256	0.0119	J	0.0246	0.024	J	0.0191	0.0178	J	0.0284	0.00937	J	0.0242	0.012	J	0.0255	0.0113	J	0.0242	0.0106	J	0.0328
	BENZENE	0.0345	15.4	ND	U	0.00205	ND	U	0.00197	0.000587	J	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	0.00081	J	0.00262
	BROMOBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	BROMOFORM	12.1	6,116	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	BROMOMETHANE	0.0385	16.5	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CHLOROBENZENE	0.984	376	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CHLOROETHANE	107	29,800	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CHLOROFORM	0.00918	5.86	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CHLOROMETHANE	0.879	275	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	ETHYLBENZENE	0.26	68.4	ND	U	0.00205	ND	U	0.00197	0.000266	J	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	M,P-XYLENES	NE	NE	ND	U	0.00409	ND	U	0.00394	0.000445	J	0.00306	ND	U	0.00455	ND	U	0.00387	ND	U	0.00407	ND	U	0.00387	ND	U	0.00524
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00512	ND	U	0.00492	ND	U	0.00382	ND	U	0.00569	ND	U	0.00484	ND	U	0.00509	ND	U	0.00484	ND	U	0.00655
	NAPHTHALENE	0.0713	43.0	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	N-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	N-PROPYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	O-XYLENE	3.13	898	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP196			DP196			DP196			DP196			DP196			DP197			DP197			DP197		
			SAMPLE NO	FFOR1093			FFOR1094			FFOR1095			FFOR1096			FFOR1097			FFOR1098			FFOR1099			FFOR1101		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	STYRENE	27.7	7,280	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TOLUENE	25.3	5,270	0.000517	J	0.00205	ND	U	0.00197	0.0011	J	0.00153	ND	U	0.00227	0.000597	J	0.00194	ND	U	0.00204	0.000727	J	0.00194	ND	U	0.00262
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	VINYL ACETATE	1.52	2,560	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00205	ND	U	0.00197	ND	U	0.00153	ND	U	0.00227	ND	U	0.00194	ND	U	0.00204	ND	U	0.00194	ND	U	0.00262
	XYLENES	3.13	814	ND	U	0.00614	ND	U	0.00591	0.000445	J	0.00459	ND	U	0.00682	ND	U	0.00581	ND	U	0.00611	ND	U	0.00581	ND	U	0.00787
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.36		0.67	6.02		0.67	5.12		0.66	4.28		0.65	5.27		0.79	12.5		0.65	4.29		0.67	6.27		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP197			DP197			DP197			DP198			DP198			DP198			DP198			DP198		
			SAMPLE NO	FFOR1102			FFOR1103			FFOR1100-R			FFOR1104			FFOR1105			FFOR1106			FFOR1107			FFOR1108		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.96	ND	U	4.43	ND	U	4.55	ND	U	4.42	ND	U	4.94	ND	U	4.55	ND	U	4.67	ND	U	4.38
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.72	ND	U	6.71	ND	U	5.39	ND	U	4.88	ND	U	5.36	ND	U	6.03	ND	U	5.04	ND	U	4.26
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.826	ND	U	0.723	ND	U	0.749	ND	U	0.735	ND	U	0.818	ND	U	0.756	ND	U	0.773	ND	U	0.71
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	ANTHRACENE	5,410	17,200	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	UJ	0.413	ND	UJ	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	0.0337	J	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	CHRYSENE	160	147	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	0.0176	J	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	0.362	J	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	FLUORANTHENE	2,430	2,290	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	FLUORENE	406	2,290	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	UJ	0.413	ND	UJ	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP197			DP197			DP197			DP198			DP198			DP198			DP198			DP198		
			SAMPLE NO	FFOR1102			FFOR1103			FFOR1100-R			FFOR1104			FFOR1105			FFOR1106			FFOR1107			FFOR1108		
			SAMPLE DATE	16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	2.07	ND	U	1.81	ND	U	1.87	ND	U	1.84	ND	U	2.05	ND	U	1.89	ND	U	1.93	ND	U	1.78
	PHENANTHRENE	571	1,830	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	PHENOL	99.5	18,300	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	PYRENE	1,790	1,720	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.413	ND	U	0.362	ND	U	0.374	ND	U	0.367	ND	U	0.409	ND	U	0.378	ND	U	0.386	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	0.000636	J	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	0.000685	J	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	1-CHLOROHEXANE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	2-BUTANONE	25.5	37,100	0.00765		0.00638	0.0031	J	0.00566	0.00336	J	0.00565	0.00155	J	0.00553	0.00217	J	0.00547	ND	U	0.00569	ND	U	0.00478	ND	U	0.00445
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	2-HEXANONE	NE	NE	ND	U	0.00638	ND	U	0.00566	ND	U	0.00565	ND	U	0.00553	ND	U	0.00547	ND	U	0.00569	ND	U	0.00478	ND	U	0.00445
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0319	ND	UJ	0.0283	ND	UJ	0.0282	ND	UJ	0.0277	ND	UJ	0.0274	ND	UJ	0.0285	ND	UJ	0.0239	ND	UJ	0.0223
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0319	ND	U	0.0283	ND	UJ	0.0282	ND	U	0.0277	ND	U	0.0274	ND	U	0.0285	ND	U	0.0239	ND	U	0.0223
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00638	ND	U	0.00566	ND	U	0.00565	ND	U	0.00553	ND	U	0.00547	ND	U	0.00569	ND	U	0.00478	ND	U	0.00445
	ACETONE	77.1	66,600	0.0248	J	0.0319	0.00994	J	0.0283	ND	U	0.0282	0.00581	J	0.0277	0.00946	J	0.0274	0.0157	J	0.0285	0.0183	J	0.0239	0.00572	J	0.0223
	BENZENE	0.0345	15.4	ND	U	0.00255	ND	U	0.00226	0.0017	J	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	BROMOBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	BROMOFORM	12.1	6,116	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	BROMOMETHANE	0.0385	16.5	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CHLOROBENZENE	0.984	376	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CHLOROETHANE	107	29,800	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CHLOROFORM	0.00918	5.86	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CHLOROMETHANE	0.879	275	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	ETHYLBENZENE	0.26	68.4	0.000532	J	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	M,P-XYLENES	NE	NE	0.001	J	0.0051	ND	U	0.00453	ND	U	0.00452	ND	U	0.00443	ND	U	0.00438	ND	U	0.00455	ND	U	0.00383	ND	U	0.00356
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00638	ND	U	0.00566	ND	U	0.00565	ND	U	0.00553	ND	U	0.00547	ND	U	0.00569	ND	U	0.00478	ND	U	0.00445
	NAPHTHALENE	0.0713	43.0	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	0.00142	J	0.00228	ND	U	0.00191	ND	U	0.00178
	N-BUTYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	N-PROPYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	O-XYLENE	3.13	898	0.000311	J	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP197			DP197			DP197			DP198			DP198			DP198			DP198			DP198		
		SAMPLE NO		FFOR1102			FFOR1103			FFOR1100-R			FFOR1104			FFOR1105			FFOR1106			FFOR1107			FFOR1108		
		SAMPLE DATE		16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11			16-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	STYRENE	27.7	7,280	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TOLUENE	25.3	5,270	0.00259		0.00255	ND	U	0.00226	0.00264		0.00226	ND	U	0.00221	ND	U	0.00219	0.00118	J	0.00228	0.000716	J	0.00191	0.000524	J	0.00178
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	0.00255	ND	UJ	0.00226	ND	U	0.00226	ND	UJ	0.00221	ND	UJ	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	VINYL ACETATE	1.52	2,560	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00255	ND	U	0.00226	ND	U	0.00226	ND	U	0.00221	ND	U	0.00219	ND	U	0.00228	ND	U	0.00191	ND	U	0.00178
	XYLENES	3.13	814	0.00131	J	0.00765	ND	U	0.00679	ND	U	0.00678	ND	U	0.00664	ND	U	0.00657	ND	U	0.00683	ND	U	0.00574	ND	U	0.00534
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.35		0.75	3.98		0.67	6.68		0.68	3.84		0.67	3.92		0.75	4.36		0.69	4.55	J-	0.7	4.77		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP199			DP199			DP199			DP199			DP199			DP199			DP200			DP200		
			SAMPLE NO	FFOR1109			FFOR1110			FFOR1111			FFOR1112			FFOR1113			FFOR1114			FFOR1115			FFOR1116		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.61		4.26	6.06		4.31	3.11	J	4.47	2.02	J	4.42	1.96	J	4.51	1.89	J	4.46	2.16	J	4.3	1.95	J	4.38
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	3.93	ND	U	4.75	ND	U	5.4	ND	U	5.61	ND	U	5.53	ND	U	5.37	ND	U	4.83	ND	U	6.05
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.702	ND	U	0.704	ND	U	0.735	ND	U	0.717	ND	U	0.732	ND	U	0.726	ND	U	0.714	ND	U	0.719
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	ANTHRACENE	5,410	17,200	0.023	J	0.351	0.031	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	0.0626	J	0.351	0.0603	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	0.0431	J	0.351	0.0405	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	0.0558	J	0.351	0.048	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	0.0349	J	0.351	0.028	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0361	J	0.351	0.03	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	CHRYSENE	160	147	0.0726	J	0.351	0.0575	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	FLUORANTHENE	2,430	2,290	0.16	J	0.351	0.147	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.351	0.0148	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP199			DP199			DP199			DP199			DP199			DP199			DP200			DP200		
			SAMPLE NO	FFOR1109			FFOR1110			FFOR1111			FFOR1112			FFOR1113			FFOR1114			FFOR1115			FFOR1116		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.76	ND	U	1.84	ND	U	1.79	ND	U	1.83	ND	U	1.81	ND	U	1.78	ND	U	1.8
	PHENANTHRENE	571	1,830	0.109	J	0.351	0.102	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	PYRENE	1,790	1,720	0.119	J	0.351	0.104	J	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.367	ND	U	0.359	ND	U	0.366	ND	U	0.363	ND	U	0.357	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	0.000723	J	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	1-CHLOROHEXANE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	2-BUTANONE	25.5	37,100	0.00201	J	0.00459	0.00404	J	0.00536	0.00444	J	0.00513	0.00621		0.00619	0.00394	J	0.00535	0.00466	J	0.00587	0.00265	J	0.00501	0.00493	J	0.00683
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	2-HEXANONE	NE	NE	ND	U	0.00459	ND	U	0.00536	ND	U	0.00513	ND	U	0.00619	ND	U	0.00535	ND	U	0.00587	ND	U	0.00501	ND	U	0.00683
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0229	ND	UJ	0.0268	ND	UJ	0.0256	ND	UJ	0.031	ND	UJ	0.0268	ND	UJ	0.0293	ND	UJ	0.0251	ND	UJ	0.0342
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0229	ND	UJ	0.0268	ND	UJ	0.0256	ND	UJ	0.031	ND	UJ	0.0268	ND	UJ	0.0293	ND	UJ	0.0251	ND	UJ	0.0342
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00459	ND	U	0.00536	ND	U	0.00513	ND	U	0.00619	ND	U	0.00535	ND	U	0.00587	ND	U	0.00501	ND	U	0.00683
	ACETONE	77.1	66,600	0.008	J	0.0229	0.0176	J	0.0268	0.0206	J	0.0256	0.0212	J	0.031	0.014	J	0.0268	0.0158	J	0.0293	0.0117	J	0.0251	0.0241	J	0.0342
	BENZENE	0.0345	15.4	ND	U	0.00183	0.000489	J	0.00214	0.00184	J	0.00205	ND	U	0.00248	0.000456	J	0.00214	0.000462	J	0.00235	ND	U	0.002	ND	U	0.00273
	BROMOBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	BROMOFORM	12.1	6,116	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	BROMOMETHANE	0.0385	16.5	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CHLOROBENZENE	0.984	376	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CHLOROETHANE	107	29,800	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CHLOROFORM	0.00918	5.86	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CHLOROMETHANE	0.879	275	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	ETHYLBENZENE	0.26	68.4	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	M,P-XYLENES	NE	NE	ND	U	0.00367	ND	U	0.00429	0.00173	J	0.0041	ND	U	0.00495	ND	U	0.00428	ND	U	0.00469	ND	U	0.00401	ND	U	0.00547
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00459	ND	U	0.00536	ND	U	0.00513	ND	U	0.00619	ND	U	0.00535	ND	U	0.00587	ND	U	0.00501	ND	U	0.00683
	NAPHTHALENE	0.0713	43.0	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	N-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	N-PROPYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	O-XYLENE	3.13	898	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP199			DP199			DP199			DP199			DP199			DP199			DP200			DP200		
			SAMPLE NO	FFOR1109			FFOR1110			FFOR1111			FFOR1112			FFOR1113			FFOR1114			FFOR1115			FFOR1116		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	STYRENE	27.7	7,280	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TOLUENE	25.3	5,270	ND	U	0.00183	ND	U	0.00214	0.00298		0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	0.000465	J	0.002	0.000733	J	0.00273
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00183	ND	UJ	0.00214	ND	UJ	0.00205	ND	UJ	0.00248	ND	UJ	0.00214	ND	UJ	0.00235	ND	UJ	0.002	ND	UJ	0.00273
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00183	ND	U	0.00214	ND	U	0.00205	ND	U	0.00248	ND	U	0.00214	ND	U	0.00235	ND	U	0.002	ND	U	0.00273
	XYLENES	3.13	814	ND	U	0.0055	ND	U	0.00643	0.00173	J	0.00615	ND	U	0.00743	ND	U	0.00642	ND	U	0.00704	ND	U	0.00601	ND	U	0.0082
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.68		0.64	4.12		0.65	5.98	J-	0.67	4.66		0.66	4.67		0.68	4.15		0.67	3.47		0.66	4.18		1.3

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP200			DP200			DP200			DP200			DP201			DP201			DP201			DP201		
			SAMPLE NO	FFOR1117			FFOR1118			FFOR1119			FFOR1120			FFOR1121			FFOR1122			FFOR1123			FFOR1124		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.74	J	4.43	ND	U	4.4	1.52	J	4.45	1.98	J	4.33	14.5		4.3	2.07	J	4.37	2.77	J	4.35	1.95	J	4.6
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.65	ND	U	3.53	0.903	J	5.72	ND	U	5.93	ND	U	4.73	ND	U	5.52	ND	U	6.58	ND	U	5.22
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.738	ND	U	0.741	ND	U	0.712	ND	U	0.712	ND	U	0.724	ND	U	0.722	ND	U	0.759
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	UJ	0.379
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.053	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.123	J	0.356	0.0183	J	0.362	ND	U	0.361	ND	U	0.379
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.254	J	0.356	0.0425	J	0.362	ND	U	0.361	ND	U	0.379
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	**0.2**	J	0.356	0.0298	J	0.362	ND	U	0.361	ND	U	0.379
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.22	J	0.356	0.0351	J	0.362	ND	U	0.361	ND	U	0.379
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.171	J	0.356	0.0271	J	0.362	ND	U	0.361	ND	U	0.379
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.145	J	0.356	0.0172	J	0.362	ND	U	0.361	ND	U	0.379
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.0964	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.253	J	0.356	0.0415	J	0.362	ND	U	0.361	ND	U	0.379
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.0285	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.617		0.356	0.098	J	0.362	0.0294	J	0.361	0.00993	J	0.379
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.0551	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.128	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.0404	J	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP200			DP200			DP200			DP200			DP201			DP201			DP201			DP201		
			SAMPLE NO	FFOR1117			FFOR1118			FFOR1119			FFOR1120			FFOR1121			FFOR1122			FFOR1123			FFOR1124		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.85	ND	U	1.85	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.81	ND	U	1.9
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.471		0.356	0.072	J	0.362	0.0218	J	0.361	ND	U	0.379
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	U	0.379
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	0.516		0.356	0.0732	J	0.362	0.0248	J	0.361	ND	U	0.379
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.369	ND	U	0.371	ND	U	0.356	ND	U	0.356	ND	U	0.362	ND	U	0.361	ND	UJ	0.379
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	0.000323	J	0.00207
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	0.000196	J	0.00207
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	1-CHLOROHEXANE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	2-BUTANONE	25.5	37,100	0.00392	J	0.00578	0.00483	J	0.00579	0.00553	J	0.0063	0.00536	J	0.00588	0.00264	J	0.0048	ND	U	0.00549	ND	U	0.00598	ND	U	0.00518
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	2-HEXANONE	NE	NE	ND	U	0.00578	ND	U	0.00579	ND	U	0.0063	ND	U	0.00588	ND	U	0.0048	ND	U	0.00549	ND	U	0.00598	ND	U	0.00518
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0289	ND	UJ	0.029	ND	UJ	0.0315	ND	UJ	0.0294	ND	UJ	0.024	ND	UJ	0.0275	ND	UJ	0.0299	ND	UJ	0.0259
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0289	ND	UJ	0.029	ND	UJ	0.0315	ND	UJ	0.0294	ND	UJ	0.024	ND	UJ	0.0275	ND	UJ	0.0299	ND	UJ	0.0259
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00578	ND	U	0.00579	ND	U	0.0063	ND	U	0.00588	ND	U	0.0048	ND	U	0.00549	ND	U	0.00598	ND	U	0.00518
	ACETONE	77.1	66,600	0.0182	J	0.0289	0.0153	J	0.029	0.0205	J	0.0315	0.0168	J	0.0294	0.0094	J	0.024	0.0122	J	0.0275	0.0233	J	0.0299	0.0165	J	0.0259
	BENZENE	0.0345	15.4	ND	U	0.00231	0.00112	J	0.00232	0.000491	J	0.00252	0.000568	J	0.00235	ND	U	0.00192	ND	U	0.0022	0.000374	J	0.00239	0.00133	J	0.00207
	BROMOBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	BROMOFORM	12.1	6,116	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	BROMOMETHANE	0.0385	16.5	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	UJ	0.0022	ND	UJ	0.00239	ND	UJ	0.00207
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CHLOROBENZENE	0.984	376	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CHLOROETHANE	107	29,800	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CHLOROFORM	0.00918	5.86	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CHLOROMETHANE	0.879	275	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	ETHYLBENZENE	0.26	68.4	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	0.000539	J	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	M,P-XYLENES	NE	NE	ND	U	0.00462	0.00103	J	0.00463	ND	U	0.00504	ND	U	0.00471	ND	U	0.00384	ND	U	0.0044	ND	U	0.00478	0.00076	J	0.00414
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00578	ND	U	0.00579	ND	U	0.0063	ND	U	0.00588	ND	U	0.0048	ND	UJ	0.00549	ND	UJ	0.00598	ND	UJ	0.00518
	NAPHTHALENE	0.0713	43.0	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	N-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	N-PROPYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	O-XYLENE	3.13	898	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP200			DP200			DP200			DP200			DP201			DP201			DP201			DP201		
			SAMPLE NO	FFOR1117			FFOR1118			FFOR1119			FFOR1120			FFOR1121			FFOR1122			FFOR1123			FFOR1124		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	STYRENE	27.7	7,280	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TOLUENE	25.3	5,270	ND	U	0.00231	0.00189	J	0.00232	0.00108	J	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	0.00158	J	0.00207
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00231	ND	UJ	0.00232	ND	UJ	0.00252	ND	UJ	0.00235	ND	UJ	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00231	ND	U	0.00232	ND	U	0.00252	ND	U	0.00235	ND	U	0.00192	ND	U	0.0022	ND	U	0.00239	ND	U	0.00207
	XYLENES	3.13	814	ND	U	0.00694	0.00103	J	0.00695	ND	U	0.00755	ND	U	0.00706	ND	U	0.00576	ND	U	0.00659	ND	U	0.00717	0.00076	J	0.00621
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.02		0.66	5.41		0.67	4.37		0.68	4.8		0.65	6.46		0.64	4.67		0.66	4.23		0.66	6.16	J-	0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP201			DP201			DP202			DP202			DP202			DP202			DP202			DP203		
			SAMPLE NO	FFOR1125			FFOR1126			FFOR1127			FFOR1128			FFOR1129			FFOR1130			FFOR1131			FFOR1132		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.55	J	4.36	ND	U	4.42	3.85	J	4.34	1.92	J	4.4	ND	U	4.17	ND	U	4.46	ND	U	4.33	ND	U	4.38
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.85	ND	U	5.86	ND	U	6.11	ND	U	4.19	ND	U	5.1	ND	U	5.82	ND	U	4.94	ND	U	4.88
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.728	ND	U	0.729	ND	U	0.718	ND	U	0.7	ND	U	0.746	ND	U	0.712	ND	U	0.711
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	UJ	0.373	ND	UJ	0.356	ND	UJ	0.356
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.364	0.0129	J	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.364	0.0321	J	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	UJ	0.35	ND	UJ	0.373	ND	UJ	0.356	ND	UJ	0.356
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP201			DP201			DP202			DP202			DP202			DP202			DP202			DP203		
			SAMPLE NO	FFOR1125			FFOR1126			FFOR1127			FFOR1128			FFOR1129			FFOR1130			FFOR1131			FFOR1132		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.82	ND	U	1.82	ND	U	1.8	ND	U	1.75	ND	U	1.86	ND	U	1.78	ND	U	1.78
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.364	0.0273	J	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.364	0.0286	J	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.364	ND	U	0.364	ND	U	0.359	ND	U	0.35	ND	U	0.373	ND	U	0.356	ND	U	0.356
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	1-CHLOROHEXANE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	2-BUTANONE	25.5	37,100	ND	U	0.00566	ND	U	0.00637	ND	U	0.00643	ND	U	0.0043	ND	U	0.00563	ND	U	0.00608	0.00459	J	0.00477	0.00124	J	0.00474
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	2-HEXANONE	NE	NE	ND	U	0.00566	ND	U	0.00637	ND	U	0.00643	ND	U	0.0043	ND	U	0.00563	ND	U	0.00608	ND	U	0.00477	ND	U	0.00474
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0283	ND	UJ	0.0318	ND	UJ	0.0322	ND	UJ	0.0215	ND	UJ	0.0282	ND	UJ	0.0304	ND	UJ	0.0239	ND	UJ	0.0237
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0283	ND	UJ	0.0318	ND	UJ	0.0322	ND	UJ	0.0215	ND	UJ	0.0282	ND	UJ	0.0304	ND	UJ	0.0239	ND	UJ	0.0237
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00566	ND	U	0.00637	ND	U	0.00643	ND	U	0.0043	ND	U	0.00563	ND	U	0.00608	ND	U	0.00477	ND	U	0.00474
	ACETONE	77.1	66,600	0.0254	J	0.0283	0.0238	J	0.0318	0.0158	J	0.0322	0.0182	J	0.0215	0.0185	J	0.0282	0.0244	J	0.0304	0.0285		0.0239	0.0109	J	0.0237
	BENZENE	0.0345	15.4	0.000308	J	0.00226	0.000495	J	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	BROMOBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	BROMOFORM	12.1	6,116	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00226	ND	UJ	0.00255	ND	UJ	0.00257	ND	UJ	0.00172	ND	UJ	0.00225	ND	UJ	0.00243	ND	UJ	0.00191	ND	UJ	0.0019
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CHLOROBENZENE	0.984	376	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CHLOROETHANE	107	29,800	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CHLOROFORM	0.00918	5.86	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CHLOROMETHANE	0.879	275	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	ETHYLBENZENE	0.26	68.4	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	M,P-XYLENES	NE	NE	ND	U	0.00453	ND	U	0.0051	ND	U	0.00515	ND	U	0.00344	ND	U	0.0045	ND	U	0.00487	ND	U	0.00382	ND	U	0.00379
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00566	ND	UJ	0.00637	ND	UJ	0.00643	ND	UJ	0.0043	ND	UJ	0.00563	ND	UJ	0.00608	ND	UJ	0.00477	ND	UJ	0.00474
	NAPHTHALENE	0.0713	43.0	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	N-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	N-PROPYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	O-XYLENE	3.13	898	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019

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			LOCATION CODE	DP201			DP201			DP202			DP202			DP202			DP202			DP202			DP203		
			SAMPLE NO	FFOR1125			FFOR1126			FFOR1127			FFOR1128			FFOR1129			FFOR1130			FFOR1131			FFOR1132		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	STYRENE	27.7	7,280	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TOLUENE	25.3	5,270	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	VINYL ACETATE	1.52	2,560	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00226	ND	U	0.00255	ND	U	0.00257	ND	U	0.00172	ND	U	0.00225	ND	U	0.00243	ND	U	0.00191	ND	U	0.0019
	XYLENES	3.13	814	ND	U	0.00679	ND	U	0.00764	ND	U	0.00772	ND	U	0.00516	ND	U	0.00676	ND	U	0.0073	ND	U	0.00573	ND	U	0.00569
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.79		0.66	3.88	J-	0.67	5.04		0.66	3.93		0.66	3.53		0.64	5.69		0.68	4.19		0.65	3.55		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP203			DP203			DP203			DP203			DP203			DP204			DP204			DP204		
				SAMPLE NO	FFOR1133			FFOR1134			FFOR1135			FFOR1136			FFOR1137			FFOR1138			FFOR1139			FFOR1140		
				SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
				SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.44	ND	U	4.38	ND	U	4.37	ND	U	4.53	ND	U	4.37	15.4		4.25	5.56		4.53	2.71	J	4.5
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.59	ND	U	5.79	ND	U	5.66	ND	U	5.35	ND	U	4.42	ND	U	8.25	ND	U	5.53	ND	U	6.2
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2-CHLOROPHENOL	2.31	391	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.732	ND	U	0.725	ND	U	0.718	ND	U	0.74	ND	U	0.714	ND	U	0.703	ND	U	0.735	ND	U	0.745
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	4-CHLOROANILINE	NE	NE	ND	UJ	0.366	ND	UJ	0.363	ND	UJ	0.359	ND	UJ	0.37	ND	UJ	0.357	ND	UJ	0.352	ND	UJ	0.367	ND	UJ	0.372
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	ACENAPHTHYLENE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	ANTHRACENE	5,410	17,200	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BENZENAMINE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	0.0189	J	0.352	0.0137	J	0.367	ND	U	0.372
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	0.0394	J	0.367	ND	U	0.372
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	CARBAZOLE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	CHRYSENE	160	147	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	0.0261	J	0.352	0.0213	J	0.367	ND	U	0.372
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	DIBENZOFURAN	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	DIETHYL PHTHALATE	193	48,900	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	FLUORANTHENE	2,430	2,290	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	0.0446	J	0.352	0.0315	J	0.367	ND	U	0.372
	FLUORENE	406	2,290	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	UJ	0.366	ND	UJ	0.363	ND	UJ	0.359	ND	UJ	0.37	ND	UJ	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	ISOPHORONE	3.84	5,120	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	NAPHTHALENE	0.0713	43.0	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	NITROBENZENE	0.0125	53.5	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP203			DP203			DP203			DP203			DP203			DP204			DP204			DP204		
			SAMPLE NO	FFOR1133			FFOR1134			FFOR1135			FFOR1136			FFOR1137			FFOR1138			FFOR1139			FFOR1140		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.85	ND	U	1.79	ND	U	1.76	ND	U	1.84	ND	U	1.86
	PHENANTHRENE	571	1,830	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	0.0379	J	0.352	0.0267	J	0.367	ND	U	0.372
	PHENOL	99.5	18,300	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
	PYRENE	1,790	1,720	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	0.0379	J	0.352	0.0341	J	0.367	ND	U	0.372
	PYRIDINE	NE	NE	ND	U	0.366	ND	U	0.363	ND	U	0.359	ND	U	0.37	ND	U	0.357	ND	U	0.352	ND	U	0.367	ND	U	0.372
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	0.000601	J	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	0.000429	J	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	1-CHLOROHEXANE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	2-BUTANONE	25.5	37,100	ND	U	0.00537	0.00567	J	0.00588	ND	U	0.00607	ND	U	0.0052	0.00571		0.00479	0.00746		0.00611	ND	U	0.00611	0.0113		0.00565
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	2-HEXANONE	NE	NE	ND	U	0.00537	ND	U	0.00588	ND	U	0.00607	ND	U	0.0052	ND	U	0.00479	ND	U	0.00611	ND	U	0.00611	ND	U	0.00565
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0269	ND	UJ	0.0294	ND	UJ	0.0304	ND	UJ	0.026	ND	UJ	0.024	ND	UJ	0.0306	ND	UJ	0.0306	ND	UJ	0.0283
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0269	ND	UJ	0.0294	ND	UJ	0.0304	ND	UJ	0.026	ND	UJ	0.024	ND	UJ	0.0306	ND	UJ	0.0306	ND	UJ	0.0283
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00537	ND	U	0.00588	ND	U	0.00607	ND	U	0.0052	ND	U	0.00479	ND	U	0.00611	ND	U	0.00611	ND	U	0.00565
	ACETONE	77.1	66,600	0.0166	J	0.0269	ND	UJ	0.0294	ND	UJ	0.0304	ND	UJ	0.026	ND	UJ	0.024	0.038	J	0.0306	ND	U	0.0306	0.0537	J	0.0283
	BENZENE	0.0345	15.4	ND	U	0.00215	0.00132	J	0.00235	0.00133	J	0.00243	0.000391	J	0.00208	0.000943	J	0.00192	0.000847	J	0.00245	ND	U	0.00245	0.000996	J	0.00226
	BROMOBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	BROMOFORM	12.1	6,116	ND	U	0.00215	ND	UJ	0.00235	ND	UJ	0.00243	ND	UJ	0.00208	ND	UJ	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CHLOROBENZENE	0.984	376	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	0.000794	J	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CHLOROETHANE	107	29,800	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CHLOROFORM	0.00918	5.86	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CHLOROMETHANE	0.879	275	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	ETHYLBENZENE	0.26	68.4	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	M,P-XYLENES	NE	NE	ND	U	0.0043	0.00135	J	0.0047	ND	U	0.00486	ND	U	0.00416	ND	U	0.00383	ND	U	0.00489	ND	U	0.00489	ND	U	0.00452
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00537	ND	U	0.00588	ND	U	0.00607	ND	U	0.0052	ND	U	0.00479	ND	U	0.00611	ND	U	0.00611	ND	U	0.00565
	NAPHTHALENE	0.0713	43.0	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	N-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	N-PROPYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	O-XYLENE	3.13	898	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP203			DP203			DP203			DP203			DP203			DP204			DP204			DP204		
			SAMPLE NO	FFOR1133			FFOR1134			FFOR1135			FFOR1136			FFOR1137			FFOR1138			FFOR1139			FFOR1140		
			SAMPLE DATE	9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			9-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	STYRENE	27.7	7,280	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TOLUENE	25.3	5,270	ND	U	0.00215	0.00281		0.00235	0.00207	J	0.00243	0.00101	J	0.00208	0.00173	J	0.00192	ND	U	0.00245	ND	U	0.00245	0.00174	J	0.00226
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	VINYL ACETATE	1.52	2,560	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00215	ND	U	0.00235	ND	U	0.00243	ND	U	0.00208	ND	U	0.00192	ND	U	0.00245	ND	U	0.00245	ND	U	0.00226
	XYLENES	3.13	814	ND	U	0.00645	0.00135	J	0.00705	ND	U	0.00729	ND	U	0.00624	ND	U	0.00575	ND	U	0.00734	ND	U	0.00734	ND	U	0.00678
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.21		0.66	4.74		0.66	5.05		0.66	5.42		0.68	4.89		0.66	3.48		0.64	2.56		0.68	4.71		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP204			DP204			DP205			DP205			DP205			DP205			DP205			DP205		
			SAMPLE NO	FFOR1141			FFOR1142			FFOR1143			FFOR1144			FFOR1145			FFOR1146			FFOR1147			FFOR1148		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.63	J	4.39	ND	U	4.21	2.88	J	4.39	2.29	J	4.41	ND	U	4.54	ND	U	4.55	ND	U	4.19	ND	U	4.31
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.33	ND	U	5.64	ND	U	5.06	ND	U	5.75	ND	U	5.71	ND	U	6.82	ND	U	5.14	ND	U	4.9
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.729	ND	U	0.683	ND	U	0.725	ND	U	0.728	ND	U	0.747	ND	U	0.738	ND	U	0.688	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	UJ	0.364	ND	UJ	0.342	ND	UJ	0.363	ND	UJ	0.364	ND	UJ	0.373	ND	UJ	0.369	ND	UJ	0.344	ND	UJ	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	CHRYSENE	160	147	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	FLUORENE	406	2,290	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP204			DP204			DP205			DP205			DP205			DP205			DP205			DP205		
			SAMPLE NO	FFOR1141			FFOR1142			FFOR1143			FFOR1144			FFOR1145			FFOR1146			FFOR1147			FFOR1148		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.71	ND	U	1.81	ND	U	1.82	ND	U	1.87	ND	U	1.84	ND	U	1.72	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
	PYRIDINE	NE	NE	ND	U	0.364	ND	U	0.342	ND	U	0.363	ND	U	0.364	ND	U	0.373	ND	U	0.369	ND	U	0.344	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00265	ND	U	0.00227	ND	UJ	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	1-CHLOROHEXANE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	2-BUTANONE	25.5	37,100	0.0123		0.00662	0.00811		0.00568	ND	U	0.00508	ND	U	0.00625	ND	U	0.00536	0.00759		0.00682	ND	U	0.00508	ND	U	0.00547
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	2-HEXANONE	NE	NE	ND	U	0.00662	ND	U	0.00568	ND	U	0.00508	ND	U	0.00625	ND	U	0.00536	ND	U	0.00682	ND	U	0.00508	ND	U	0.00547
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0331	ND	UJ	0.0284	ND	UJ	0.0254	ND	UJ	0.0313	ND	UJ	0.0268	ND	UJ	0.0341	ND	UJ	0.0254	ND	UJ	0.0274
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0331	ND	UJ	0.0284	ND	UJ	0.0254	ND	UJ	0.0313	ND	UJ	0.0268	ND	UJ	0.0341	ND	UJ	0.0254	ND	UJ	0.0274
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00662	ND	U	0.00568	ND	U	0.00508	ND	U	0.00625	ND	U	0.00536	ND	U	0.00682	ND	U	0.00508	ND	U	0.00547
	ACETONE	77.1	66,600	0.0483	J	0.0331	0.0283	J	0.0284	ND	U	0.0254	0.0285	J	0.0313	ND	U	0.0268	ND	U	0.0341	ND	U	0.0254	ND	U	0.0274
	BENZENE	0.0345	15.4	0.000549	J	0.00265	0.000776	J	0.00227	0.000282	J	0.00203	ND	U	0.0025	0.00243		0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	BROMOBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	BROMOFORM	12.1	6,116	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	BROMOMETHANE	0.0385	16.5	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CHLOROBENZENE	0.984	376	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CHLOROETHANE	107	29,800	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CHLOROFORM	0.00918	5.86	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CHLOROMETHANE	0.879	275	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	ETHYLBENZENE	0.26	68.4	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00265	ND	U	0.00227	ND	UJ	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	M,P-XYLENES	NE	NE	0.000508	J	0.0053	ND	U	0.00455	ND	U	0.00406	ND	U	0.005	ND	U	0.00428	ND	U	0.00545	ND	U	0.00406	ND	U	0.00438
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00662	ND	U	0.00568	ND	U	0.00508	ND	U	0.00625	ND	U	0.00536	ND	U	0.00682	ND	U	0.00508	ND	U	0.00547
	NAPHTHALENE	0.0713	43.0	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	N-BUTYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	N-PROPYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	O-XYLENE	3.13	898	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP204			DP204			DP205			DP205			DP205			DP205			DP205			DP205		
			SAMPLE NO	FFOR1141			FFOR1142			FFOR1143			FFOR1144			FFOR1145			FFOR1146			FFOR1147			FFOR1148		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	UJ	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	STYRENE	27.7	7,280	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TOLUENE	25.3	5,270	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	0.00358		0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	VINYL ACETATE	1.52	2,560	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00265	ND	U	0.00227	ND	U	0.00203	ND	U	0.0025	ND	U	0.00214	ND	U	0.00273	ND	U	0.00203	ND	U	0.00219
	XYLENES	3.13	814	ND	U	0.00794	ND	U	0.00682	ND	U	0.0061	ND	U	0.0075	ND	U	0.00643	ND	U	0.00818	ND	U	0.00609	ND	U	0.00657
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.58		0.66	3.56		0.63	4.35	J-	0.67	2.34		0.66	6.62		0.68	6.45		0.68	3.95		0.63	3.78		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP206			DP206			DP206			DP206			DP206			DP207			DP207			DP207		
			SAMPLE NO	FFOR1149			FFOR1150			FFOR1151			FFOR1152			FFOR1153			FFOR1154			FFOR1155			FFOR1156		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.75		4.34	5.03		4.5	6.16		4.37	2.97	J	4.25	2.24	J	4.44	8.24		4.81	5.39		4.41	1.95	J	4.47
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.22	ND	U	6.15	ND	U	5.33	4.2	J	7.88	ND	U	5.31	ND	U	5.97	ND	U	5.85	ND	U	6.64
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2-CHLOROPHENOL	2.31	391	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.723	ND	U	0.75	ND	U	0.718	ND	U	0.7	ND	U	0.732	ND	U	0.791	ND	U	0.723	ND	U	0.738
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	4-CHLOROANILINE	NE	NE	ND	UJ	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	ACENAPHTHYLENE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	ANTHRACENE	5,410	17,200	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZENAMINE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	CARBAZOLE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	CHRYSENE	160	147	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DIBENZOFURAN	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DIETHYL PHTHALATE	193	48,900	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.362	ND	UJ	0.375	ND	UJ	0.359	ND	UJ	0.35	ND	UJ	0.366	ND	UJ	0.396	ND	UJ	0.361	ND	UJ	0.369
	FLUORANTHENE	2,430	2,290	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	FLUORENE	406	2,290	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	ISOPHORONE	3.84	5,120	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	NAPHTHALENE	0.0713	43.0	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	NITROBENZENE	0.0125	53.5	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP206			DP206			DP206			DP206			DP206			DP207			DP207			DP207		
			SAMPLE NO	FFOR1149			FFOR1150			FFOR1151			FFOR1152			FFOR1153			FFOR1154			FFOR1155			FFOR1156		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.87	ND	U	1.8	ND	U	1.75	ND	U	1.83	ND	U	1.98	ND	U	1.81	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	PHENOL	99.5	18,300	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	PYRENE	1,790	1,720	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
	PYRIDINE	NE	NE	ND	U	0.362	ND	U	0.375	ND	U	0.359	ND	U	0.35	ND	U	0.366	ND	U	0.396	ND	U	0.361	ND	U	0.369
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	0.000198	J	0.00259
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	0.000181	J	0.002	0.000173	J	0.00241	ND	U	0.00281	ND	U	0.00228	0.000303	J	0.00259
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	1-CHLOROHEXANE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	2-BUTANONE	25.5	37,100	ND	U	0.00567	ND	U	0.00687	ND	U	0.00645	0.00232	J	0.00501	0.00426	J	0.00603	0.00474	J	0.00703	0.00151	J	0.00571	0.00406	J	0.00648
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	2-HEXANONE	NE	NE	ND	U	0.00567	ND	U	0.00687	ND	U	0.00645	ND	U	0.00501	ND	U	0.00603	ND	U	0.00703	ND	U	0.00571	ND	U	0.00648
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0284	ND	UJ	0.0344	ND	UJ	0.0323	ND	UJ	0.025	ND	UJ	0.0301	ND	UJ	0.0352	ND	UJ	0.0285	ND	UJ	0.0324
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0284	ND	UJ	0.0344	ND	UJ	0.0323	ND	U	0.025	ND	U	0.0301	ND	U	0.0352	ND	U	0.0285	ND	U	0.0324
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00567	ND	U	0.00687	ND	U	0.00645	ND	U	0.00501	ND	U	0.00603	ND	U	0.00703	ND	U	0.00571	ND	U	0.00648
	ACETONE	77.1	66,600	ND	U	0.0284	ND	U	0.0344	0.0309	J	0.0323	ND	U	0.025	0.017	J	0.0301	0.0333	J	0.0352	ND	U	0.0285	0.0212	J	0.0324
	BENZENE	0.0345	15.4	ND	U	0.00227	ND	U	0.00275	0.00192	J	0.00258	0.000787	J	0.002	0.000531	J	0.00241	0.000684	J	0.00281	0.000197	J	0.00228	0.00162	J	0.00259
	BROMOBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	BROMOFORM	12.1	6,116	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	BROMOMETHANE	0.0385	16.5	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CHLOROBENZENE	0.984	376	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CHLOROETHANE	107	29,800	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CHLOROFORM	0.00918	5.86	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CHLOROMETHANE	0.879	275	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	ETHYLBENZENE	0.26	68.4	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	0.000286	J	0.002	0.000313	J	0.00241	ND	U	0.00281	ND	U	0.00228	0.000602	J	0.00259
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	M,P-XYLENES	NE	NE	ND	U	0.00454	ND	U	0.0055	ND	U	0.00516	0.000696	J	0.00401	0.000497	J	0.00482	ND	U	0.00563	ND	U	0.00456	0.00145	J	0.00519
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00567	ND	U	0.00687	ND	U	0.00645	ND	U	0.00501	ND	U	0.00603	ND	U	0.00703	ND	U	0.00571	ND	U	0.00648
	NAPHTHALENE	0.0713	43.0	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	N-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	0.000221	J	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	N-PROPYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	O-XYLENE	3.13	898	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	0.000173	J	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	0.000351	J	0.00259

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP206			DP206			DP206			DP206			DP206			DP207			DP207			DP207		
		SAMPLE NO		FFOR1149			FFOR1150			FFOR1151			FFOR1152			FFOR1153			FFOR1154			FFOR1155			FFOR1156		
		SAMPLE DATE		8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	STYRENE	27.7	7,280	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TOLUENE	25.3	5,270	ND	U	0.00227	ND	U	0.00275	0.00247	J	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	0.00257	J	0.00259
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	VINYL ACETATE	1.52	2,560	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00227	ND	U	0.00275	ND	U	0.00258	ND	U	0.002	ND	U	0.00241	ND	U	0.00281	ND	U	0.00228	ND	U	0.00259
	XYLENES	3.13	814	ND	U	0.00681	ND	U	0.00825	ND	U	0.00774	0.000868	J	0.00601	0.000653	J	0.00723	0.000647	J	0.00844	ND	U	0.00685	0.0018	J	0.00778
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.76		0.66	3.18		0.68	4.53		0.65	5.63		0.64	4.54		0.67	4.01		0.72	2.94		0.66	6.49		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP207			DP207			DP207			DP208			DP208			DP208			DP208			DP208		
			SAMPLE NO	FFOR1157			FFOR1158			FFOR1159			FFOR1160			FFOR1161			FFOR1162			FFOR1163			FFOR1164		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.74	J	4.37	ND	U	4.5	ND	U	4.24	2.06	J	4.24	4.12	J	4.64	ND	U	4.38	ND	U	4.3	ND	U	4.68
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.55	ND	U	5.35	ND	U	5.39	ND	U	5.69	ND	U	6.08	ND	U	5.25	ND	U	5.07	ND	U	6.45
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2-CHLOROPHENOL	2.31	391	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	2-NITROPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.731	ND	U	0.747	ND	U	0.694	ND	U	0.701	ND	U	0.766	ND	U	0.72	ND	U	0.718	ND	U	0.773
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	4-CHLOROANILINE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	ACENAPHTHENE	338	3,440	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	ACENAPHTHYLENE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	ANTHRACENE	5,410	17,200	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZENAMINE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	CARBAZOLE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	CHRYSENE	160	147	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DIBENZOFURAN	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DIETHYL PHTHALATE	193	48,900	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	DI-N-OCTYL PHTHALATE	NE	NE	ND	UJ	0.365	ND	UJ	0.374	ND	UJ	0.347	ND	UJ	0.351	ND	UJ	0.383	ND	UJ	0.36	ND	UJ	0.359	ND	UJ	0.386
	FLUORANTHENE	2,430	2,290	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	FLUORENE	406	2,290	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	ISOPHORONE	3.84	5,120	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	NAPHTHALENE	0.0713	43.0	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	NITROBENZENE	0.0125	53.5	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP207			DP207			DP207			DP208			DP208			DP208			DP208			DP208		
			SAMPLE NO	FFOR1157			FFOR1158			FFOR1159			FFOR1160			FFOR1161			FFOR1162			FFOR1163			FFOR1164		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.87	ND	U	1.74	ND	U	1.75	ND	U	1.92	ND	U	1.8	ND	U	1.8	ND	U	1.93
	PHENANTHRENE	571	1,830	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	PHENOL	99.5	18,300	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	PYRENE	1,790	1,720	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
	PYRIDINE	NE	NE	ND	U	0.365	ND	U	0.374	ND	U	0.347	ND	U	0.351	ND	U	0.383	ND	U	0.36	ND	U	0.359	ND	U	0.386
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000195	J	0.00219	ND	U	0.0028	0.000146	J	0.00223	ND	U	0.00267	ND	U	0.0025	0.000253	J	0.00217	ND	U	0.00203	0.000234	J	0.00303
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	1-CHLOROHEXANE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	2-BUTANONE	25.5	37,100	0.0031	J	0.00547	0.00362	J	0.007	0.00532	J	0.00557	0.00433	J	0.00667	0.00105	J	0.00624	0.00273	J	0.00543	0.00343	J	0.00508	0.00438	J	0.00756
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	2-HEXANONE	NE	NE	ND	U	0.00547	ND	U	0.007	ND	U	0.00557	ND	U	0.00667	ND	U	0.00624	ND	U	0.00543	ND	U	0.00508	ND	U	0.00756
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0274	ND	UJ	0.035	ND	UJ	0.0279	ND	UJ	0.0333	ND	UJ	0.0312	ND	UJ	0.0271	ND	UJ	0.0254	ND	UJ	0.0378
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0274	ND	U	0.035	ND	U	0.0279	ND	U	0.0333	ND	U	0.0312	ND	U	0.0271	ND	U	0.0254	ND	U	0.0378
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00547	ND	U	0.007	ND	U	0.00557	ND	U	0.00667	ND	U	0.00624	ND	U	0.00543	ND	U	0.00508	ND	U	0.00756
	ACETONE	77.1	66,600	0.0117	J	0.0274	0.0166	J	0.035	0.027	J	0.0279	0.046		0.0333	0.0113	J	0.0312	0.015	J	0.0271	0.0181	J	0.0254	0.0163	J	0.0378
	BENZENE	0.0345	15.4	0.00107	J	0.00219	0.000807	J	0.0028	0.00097	J	0.00223	0.000802	J	0.00267	0.000166	J	0.0025	0.00136	J	0.00217	0.000746	J	0.00203	0.00114	J	0.00303
	BROMOBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	BROMOFORM	12.1	6,116	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	BROMOMETHANE	0.0385	16.5	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CHLOROBENZENE	0.984	376	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CHLOROETHANE	107	29,800	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CHLOROFORM	0.00918	5.86	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CHLOROMETHANE	0.879	275	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	ETHYLBENZENE	0.26	68.4	0.000437	J	0.00219	0.000424	J	0.0028	0.000498	J	0.00223	ND	U	0.00267	ND	U	0.0025	0.000418	J	0.00217	0.00042	J	0.00203	0.000488	J	0.00303
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	M,P-XYLENES	NE	NE	0.001	J	0.00438	0.000711	J	0.0056	0.000775	J	0.00446	ND	U	0.00534	ND	U	0.00499	0.00114	J	0.00434	0.000526	J	0.00406	0.000915	J	0.00605
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00547	ND	U	0.007	ND	U	0.00557	ND	U	0.00667	ND	U	0.00624	ND	U	0.00543	ND	U	0.00508	ND	U	0.00756
	NAPHTHALENE	0.0713	43.0	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	N-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	0.000245	J	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	N-PROPYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	O-XYLENE	3.13	898	0.000268	J	0.00219	ND	U	0.0028	0.000195	J	0.00223	ND	U	0.00267	ND	U	0.0025	0.000316	J	0.00217	0.000147	J	0.00203	0.000294	J	0.00303

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP207			DP207			DP207			DP208			DP208			DP208			DP208			DP208		
			SAMPLE NO	FFOR1157			FFOR1158			FFOR1159			FFOR1160			FFOR1161			FFOR1162			FFOR1163			FFOR1164		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	STYRENE	27.7	7,280	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TOLUENE	25.3	5,270	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	0.00209	J	0.00217	ND	U	0.00203	0.002	J	0.00303
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	VINYL ACETATE	1.52	2,560	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00219	ND	U	0.0028	ND	U	0.00223	ND	U	0.00267	ND	U	0.0025	ND	U	0.00217	ND	U	0.00203	ND	U	0.00303
	XYLENES	3.13	814	0.00127	J	0.00656	0.000867	J	0.00841	0.000971	J	0.00669	0.000653	J	0.008	ND	U	0.00749	0.00144	J	0.00651	0.000673	J	0.00609	0.00121	J	0.00908
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.04		0.66	6.2		0.67	4.64		0.64	4.27		0.64	4.12		1.38	4.85		0.66	5.78		0.65	5.57		0.7

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP209			DP209			DP209			DP209			DP209			DP209			DP210			DP210		
			SAMPLE NO	FFOR1165			FFOR1166			FFOR1167			FFOR1168			FFOR1169			FFOR1170			FFOR1171			FFOR1172		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.44	J	4.24	ND	U	4.2	2.31	J	4.43	ND	U	4.46	ND	U	4.29	ND	U	4.26	1.7	J	4.42	ND	U	4.69
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.73	ND	U	4.66	ND	U	5.05	ND	U	5.7	ND	U	6.58	ND	U	5.32	ND	U	6.89	ND	U	6.16
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.697	ND	U	0.7	ND	U	0.738	ND	U	0.73	ND	U	0.71	ND	U	0.708	ND	U	0.727	ND	U	0.782
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.35	ND	UJ	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	UJ	0.363	ND	UJ	0.391
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	UJ	0.354	ND	U	0.363	ND	U	0.391
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	DI-N-OCTYL PHTHALATE	NE	NE	ND	UJ	0.348	ND	UJ	0.35	ND	UJ	0.369	ND	UJ	0.365	ND	UJ	0.355	ND	UJ	0.354	ND	U	0.363	ND	U	0.391
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP209			DP209			DP209			DP209			DP209			DP209			DP210			DP210		
			SAMPLE NO	FFOR1165			FFOR1166			FFOR1167			FFOR1168			FFOR1169			FFOR1170			FFOR1171			FFOR1172		
			SAMPLE DATE	8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.75	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.77	ND	U	1.82	ND	U	1.95
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	U	0.354	ND	U	0.363	ND	U	0.391
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.35	ND	U	0.369	ND	U	0.365	ND	U	0.355	ND	UJ	0.354	ND	U	0.363	ND	U	0.391
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	0.00039	J	0.002	ND	U	0.00245	0.000138	J	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	1-CHLOROHEXANE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	2-BUTANONE	25.5	37,100	0.00274	J	0.00569	ND	U	0.00533	0.00367	J	0.00501	0.00342	J	0.00611	0.00433	J	0.00568	0.00388	J	0.0054	0.0044	J	0.00748	0.002	J	0.00499
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	2-HEXANONE	NE	NE	ND	U	0.00569	ND	U	0.00533	ND	U	0.00501	ND	U	0.00611	ND	U	0.00568	ND	U	0.0054	ND	U	0.00748	ND	U	0.00499
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0284	ND	UJ	0.0267	ND	UJ	0.025	ND	UJ	0.0306	ND	UJ	0.0284	ND	UJ	0.027	ND	UJ	0.0374	ND	UJ	0.025
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0284	ND	U	0.0267	ND	U	0.025	ND	U	0.0306	ND	U	0.0284	ND	U	0.027	ND	UJ	0.0374	ND	UJ	0.025
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00569	ND	U	0.00533	ND	U	0.00501	ND	U	0.00611	ND	U	0.00568	ND	U	0.0054	ND	U	0.00748	ND	U	0.00499
	ACETONE	77.1	66,600	0.0236	J	0.0284	0.00478	J	0.0267	0.0107	J	0.025	0.0276	J	0.0306	0.0266	J	0.0284	0.0206	J	0.027	0.0531		0.0374	0.0144	J	0.025
	BENZENE	0.0345	15.4	0.000281	J	0.00228	0.000181	J	0.00213	0.00191	J	0.002	0.000502	J	0.00245	0.000963	J	0.00227	0.000911	J	0.00216	0.000909	J	0.00299	0.00023	J	0.002
	BROMOBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	BROMOFORM	12.1	6,116	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	BROMOMETHANE	0.0385	16.5	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CHLOROBENZENE	0.984	376	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CHLOROETHANE	107	29,800	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CHLOROFORM	0.00918	5.86	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CHLOROMETHANE	0.879	275	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	ETHYLBENZENE	0.26	68.4	ND	U	0.00228	ND	U	0.00213	0.000656	J	0.002	0.000419	J	0.00245	0.000537	J	0.00227	0.00041	J	0.00216	ND	U	0.00299	ND	U	0.002
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	M,P-XYLENES	NE	NE	ND	U	0.00455	ND	U	0.00427	0.00171	J	0.00401	ND	U	0.00489	0.00077	J	0.00454	0.000558	J	0.00432	ND	U	0.00599	ND	U	0.00399
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00569	ND	U	0.00533	ND	U	0.00501	ND	U	0.00611	ND	U	0.00568	ND	U	0.0054	ND	U	0.00748	ND	U	0.00499
	NAPHTHALENE	0.0713	43.0	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	N-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	N-PROPYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	O-XYLENE	3.13	898	ND	U	0.00228	ND	U	0.00213	0.000465	J	0.002	ND	U	0.00245	0.000204	J	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002

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		LOCATION CODE		DP209			DP209			DP209			DP209			DP209			DP209			DP210			DP210		
		SAMPLE NO		FFOR1165			FFOR1166			FFOR1167			FFOR1168			FFOR1169			FFOR1170			FFOR1171			FFOR1172		
		SAMPLE DATE		8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			8-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	STYRENE	27.7	7,280	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TOLUENE	25.3	5,270	ND	U	0.00228	ND	U	0.00213	0.00292		0.002	ND	U	0.00245	ND	U	0.00227	0.00182	J	0.00216	ND	U	0.00299	ND	U	0.002
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	VINYL ACETATE	1.52	2,560	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	UJ	0.00216	ND	U	0.00299	ND	U	0.002
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00228	ND	U	0.00213	ND	U	0.002	ND	U	0.00245	ND	U	0.00227	ND	U	0.00216	ND	U	0.00299	ND	U	0.002
	XYLENES	3.13	814	ND	U	0.00683	ND	U	0.0064	0.00217	J	0.00601	ND	U	0.00734	0.000974	J	0.00681	0.000558	J	0.00647	ND	U	0.00898	ND	U	0.00599
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.23		0.64	3.19		0.64	6.3	J-	0.67	6.51		0.67	4.8		0.64	5.15		0.65	3.66		0.66	3.79		0.72

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP210			DP210			DP210			DP210			DP211			DP211			DP211			DP211		
			SAMPLE NO	FFOR1173			FFOR1174			FFOR1175			FFOR1176			FFOR1177			FFOR1178			FFOR1179			FFOR1182		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.88	J	4.34	4.74		4.23	2.01	J	4.74	1.68	J	4.26	3.22	J	4.23	1.73	J	4.33	6.56		4.35	1.7	J	4.32
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.21	ND	U	4.4	ND	U	5.14	ND	U	5.48	ND	U	5.59	ND	U	5.49	ND	U	5.42	ND	U	6.22
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.699	ND	U	0.787	ND	U	0.708	ND	U	0.695	ND	U	0.724	ND	U	0.718	ND	U	0.703
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	UJ	0.359	ND	UJ	0.349	ND	UJ	0.393	ND	UJ	0.354	ND	UJ	0.348	ND	UJ	0.362	ND	UJ	0.359	ND	UJ	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	0.0263	J	0.359	ND	U	0.351
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	0.0606	J	0.359	ND	U	0.351
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	0.0134	J	0.348	ND	U	0.362	0.0418	J	0.359	ND	U	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	0.0474	J	0.359	ND	U	0.351
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	0.0117	J	0.348	ND	U	0.362	0.0237	J	0.359	ND	U	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	0.0331	J	0.359	ND	U	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	0.0197	J	0.348	ND	U	0.362	0.0538	J	0.359	ND	U	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	FLUORANTHENE	2,430	2,290	ND	U	0.359	0.0252	J	0.349	0.0088	J	0.393	ND	U	0.354	0.0389	J	0.348	0.0107	J	0.362	0.123	J	0.359	0.016	J	0.351
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP210			DP210			DP210			DP210			DP211			DP211			DP211			DP211		
			SAMPLE NO	FFOR1173			FFOR1174			FFOR1175			FFOR1176			FFOR1177			FFOR1178			FFOR1179			FFOR1182		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.74	ND	U	1.81	ND	U	1.79	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.359	0.0177	J	0.349	ND	U	0.393	ND	U	0.354	0.0222	J	0.348	ND	U	0.362	0.0915	J	0.359	0.0168	J	0.351
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	0.0273	J	0.348	ND	U	0.362	0.096	J	0.359	ND	U	0.351
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.349	ND	U	0.393	ND	U	0.354	ND	U	0.348	ND	U	0.362	ND	U	0.359	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	0.000921	J	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	0.000432	J	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	1-CHLOROHEXANE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	2-BUTANONE	25.5	37,100	0.00253	J	0.00585	0.012		0.0101	0.00682		0.00613	0.00734		0.00674	ND	U	0.00487	0.0028	J	0.00541	ND	U	0.00465	ND	U	0.00531
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	2-HEXANONE	NE	NE	ND	U	0.00585	ND	U	0.0101	ND	U	0.00613	ND	U	0.00674	ND	U	0.00487	ND	U	0.00541	ND	U	0.00465	ND	U	0.00531
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0292	ND	UJ	0.0507	ND	UJ	0.0307	ND	UJ	0.0337	ND	UJ	0.0244	ND	UJ	0.027	ND	UJ	0.0232	ND	U	0.0265
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0292	ND	UJ	0.0507	ND	UJ	0.0307	ND	UJ	0.0337	ND	UJ	0.0244	ND	UJ	0.027	ND	UJ	0.0232	ND	U	0.0265
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00585	ND	U	0.0101	ND	U	0.00613	ND	U	0.00674	ND	U	0.00487	ND	U	0.00541	ND	U	0.00465	ND	U	0.00531
	ACETONE	77.1	66,600	0.0217	J	0.0292	0.0529		0.0507	0.0303	J	0.0307	0.049		0.0337	0.00382	J	0.0244	0.0128	J	0.027	0.00836	J	0.0232	0.0167	J	0.0265
	BENZENE	0.0345	15.4	ND	U	0.00234	0.00222	J	0.00406	0.00355		0.00245	0.000535	J	0.0027	0.000145	J	0.00195	0.00149	J	0.00216	0.000918	J	0.00186	0.00102	J	0.00212
	BROMOBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	BROMOFORM	12.1	6,116	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	BROMOMETHANE	0.0385	16.5	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CHLOROBENZENE	0.984	376	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CHLOROETHANE	107	29,800	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CHLOROFORM	0.00918	5.86	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CHLOROMETHANE	0.879	275	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	ETHYLBENZENE	0.26	68.4	ND	U	0.00234	0.001	J	0.00406	0.000423	J	0.00245	ND	U	0.0027	ND	U	0.00195	0.000341	J	0.00216	ND	U	0.00186	ND	U	0.00212
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	M,P-XYLENES	NE	NE	ND	U	0.00468	0.00261	J	0.00811	0.00187	J	0.00491	ND	U	0.00539	ND	U	0.0039	0.000915	J	0.00433	0.000631	J	0.00372	ND	U	0.00424
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00585	ND	U	0.0101	ND	U	0.00613	ND	U	0.00674	ND	U	0.00487	ND	U	0.00541	ND	U	0.00465	ND	U	0.00531
	NAPHTHALENE	0.0713	43.0	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	0.00755		0.00186	ND	U	0.00212
	N-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	N-PROPYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	O-XYLENE	3.13	898	ND	U	0.00234	0.000825	J	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP210			DP210			DP210			DP210			DP211			DP211			DP211			DP211		
		SAMPLE NO		FFOR1173			FFOR1174			FFOR1175			FFOR1176			FFOR1177			FFOR1178			FFOR1179			FFOR1182		
		SAMPLE DATE		7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	STYRENE	27.7	7,280	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TOLUENE	25.3	5,270	ND	U	0.00234	0.00349	J	0.00406	0.00413		0.00245	ND	U	0.0027	ND	U	0.00195	0.00154	J	0.00216	ND	U	0.00186	ND	U	0.00212
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	VINYL ACETATE	1.52	2,560	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	UJ	0.00212
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00234	ND	U	0.00406	ND	U	0.00245	ND	U	0.0027	ND	U	0.00195	ND	U	0.00216	ND	U	0.00186	ND	U	0.00212
	XYLENES	3.13	814	ND	U	0.00702	0.00344	J	0.0122	0.00187	J	0.00736	ND	U	0.00809	ND	U	0.00585	0.000915	J	0.00649	0.000631	J	0.00558	ND	U	0.00637
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.64		0.66	3.75		0.64	7.39		0.72	4.07		0.64	5.11		0.64	5.7		0.66	6.05		0.65	4.47		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP211			DP211			DP212			DP212			DP212			DP212			DP212			DP213		
			SAMPLE NO	FFOR1180-R			FFOR1181-R			FFOR1183			FFOR1184			FFOR1185			FFOR1186			FFOR1187			FFOR1188		
			SAMPLE DATE	16-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.83	ND	U	4.52	3.62	J	4.17	ND	U	4.43	ND	U	4.47	ND	U	4.51	ND	U	4.32	3.09	J	4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.2	ND	U	6.1	ND	U	4.64	ND	U	6.02	ND	U	5.79	ND	U	4.84	ND	U	4.89	ND	U	4.56
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,4-DINITROPHENOL	1.26	122	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2-CHLOROPHENOL	2.31	391	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	2-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.794	ND	U	0.747	ND	U	0.698	ND	U	0.733	ND	U	0.73	ND	U	0.749	ND	U	0.715	ND	U	0.702
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	3-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	4-CHLOROANILINE	NE	NE	ND	U	0.397	ND	U	0.373	ND	UJ	0.349	ND	UJ	0.367	ND	UJ	0.365	ND	UJ	0.374	ND	UJ	0.357	ND	UJ	0.351
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	4-NITROANILINE	NE	NE	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	ACENAPHTHYLENE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	ANTHRACENE	5,410	17,200	ND	U	0.397	ND	U	0.373	0.0172	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BENZENAMINE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.397	ND	U	0.373	0.0504	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0391	J	0.351
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.397	ND	U	0.373	0.0389	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0263	J	0.351
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.397	ND	U	0.373	0.0542	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.036	J	0.351
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.397	ND	U	0.373	0.0303	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0249	J	0.351
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.397	ND	U	0.373	0.0219	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0255	J	0.351
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	CARBAZOLE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	CHRYSENE	160	147	ND	U	0.397	ND	U	0.373	0.0499	J	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.039	J	0.351
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	DIBENZOFURAN	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	DIETHYL PHTHALATE	193	48,900	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	FLUORANTHENE	2,430	2,290	ND	U	0.397	ND	U	0.373	0.119	J	0.349	0.023	J	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0756	J	0.351
	FLUORENE	406	2,290	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	ISOPHORONE	3.84	5,120	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	NAPHTHALENE	0.0713	43.0	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	NITROBENZENE	0.0125	53.5	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP211			DP211			DP212			DP212			DP212			DP212			DP212			DP213		
			SAMPLE NO	FFOR1180-R			FFOR1181-R			FFOR1183			FFOR1184			FFOR1185			FFOR1186			FFOR1187			FFOR1188		
			SAMPLE DATE	16-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.99	ND	U	1.87	ND	U	1.74	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.79	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.397	ND	U	0.373	0.072	J	0.349	0.0188	J	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0453	J	0.351
	PHENOL	99.5	18,300	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
	PYRENE	1,790	1,720	ND	U	0.397	ND	U	0.373	0.0826	J	0.349	0.0203	J	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	0.0713	J	0.351
	PYRIDINE	NE	NE	ND	U	0.397	ND	U	0.373	ND	U	0.349	ND	U	0.367	ND	U	0.365	ND	U	0.374	ND	U	0.357	ND	U	0.351
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000294	J	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.00019	J	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	1-CHLOROHEXANE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	2-BUTANONE	25.5	37,100	ND	U	0.00425	ND	U	0.00365	ND	U	0.00557	ND	U	0.00664	ND	U	0.00653	ND	U	0.00524	ND	U	0.00348	ND	U	0.00314
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	2-HEXANONE	NE	NE	ND	U	0.00425	ND	U	0.00365	ND	U	0.00557	ND	U	0.00664	ND	U	0.00653	ND	U	0.00524	ND	U	0.00348	ND	U	0.00314
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0212	ND	UJ	0.0183	ND	U	0.0279	ND	U	0.0332	ND	U	0.0327	ND	U	0.0262	ND	U	0.0174	ND	U	0.0157
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0212	ND	U	0.0183	ND	U	0.0279	ND	U	0.0332	ND	U	0.0327	ND	U	0.0262	ND	U	0.0174	ND	U	0.0157
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00425	ND	U	0.00365	ND	U	0.00557	ND	U	0.00664	ND	U	0.00653	ND	U	0.00524	ND	U	0.00348	ND	U	0.00314
	ACETONE	77.1	66,600	0.00962	J	0.0212	0.00313	J	0.0183	0.00646	J	0.0279	0.00306	J	0.0332	0.00236	J	0.0327	0.002	J	0.0262	ND	U	0.0174	0.00319	J	0.0157
	BENZENE	0.0345	15.4	0.00102	J	0.0017	ND	U	0.00146	0.000377	J	0.00223	0.000245	J	0.00266	0.00066	J	0.00261	0.00198	J	0.0021	0.000662	J	0.00139	0.000106	J	0.00126
	BROMOBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	BROMOFORM	12.1	6,116	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	BROMOMETHANE	0.0385	16.5	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CHLOROBENZENE	0.984	376	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CHLOROETHANE	107	29,800	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CHLOROFORM	0.00918	5.86	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CHLOROMETHANE	0.879	275	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	ETHYLBENZENE	0.26	68.4	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	M,P-XYLENES	NE	NE	ND	U	0.0034	ND	U	0.00292	ND	U	0.00446	ND	U	0.00531	ND	U	0.00522	ND	U	0.00419	ND	U	0.00278	ND	U	0.00251
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00425	ND	U	0.00365	ND	U	0.00557	ND	U	0.00664	ND	U	0.00653	ND	U	0.00524	ND	U	0.00348	ND	U	0.00314
	NAPHTHALENE	0.0713	43.0	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	N-BUTYLBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	N-PROPYLBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	O-XYLENE	3.13	898	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP211			DP211			DP212			DP212			DP212			DP212			DP212			DP212			DP213		
		SAMPLE NO		FFOR1180-R			FFOR1181-R			FFOR1183			FFOR1184			FFOR1185			FFOR1186			FFOR1187			FFOR1188			
		SAMPLE DATE		16-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG			
		SAMPLE DEPTH		10-11 FT			15-16 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	STYRENE	27.7	7,280	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TOLUENE	25.3	5,270	0.00159	J	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	0.00353		0.0021	ND	U	0.00139	ND	U	0.00126
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	VINYL ACETATE	1.52	2,560	ND	U	0.0017	ND	U	0.00146	ND	UJ	0.00223	ND	UJ	0.00266	ND	UJ	0.00261	ND	UJ	0.0021	ND	UJ	0.00139	ND	UJ	0.00126
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0017	ND	U	0.00146	ND	U	0.00223	ND	U	0.00266	ND	U	0.00261	ND	U	0.0021	ND	U	0.00139	ND	U	0.00126
	XYLENES	3.13	814	ND	U	0.0051	ND	U	0.00438	ND	U	0.00669	ND	U	0.00797	ND	U	0.00784	ND	U	0.00629	ND	U	0.00418	ND	U	0.00377
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.34		0.73	4.42		0.68	6.92		0.63	5.03		0.68	6.44		0.67	7.52		0.68	4.47		0.65	5.41		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP213			DP213			DP213			DP213			DP213			DP214			DP214			DP214		
			SAMPLE NO	FFOR1189			FFOR1190			FFOR1191			FFOR1192			FFOR1193			FFOR1194			FFOR1195			FFOR1196		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.98		4.29	ND	U	4.41	2.45	J	4.52	1.46	J	4.39	ND	U	4.4	2.41	J	4.3	ND	U	4.2	1.57	J	4.43
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.23	ND	U	3.92	ND	U	4.13	ND	U	5.49	ND	U	6.11	ND	U	15.2	ND	U	8.12	ND	U	5.5
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.71	ND	U	0.724	ND	U	0.741	ND	U	0.725	ND	U	0.724	ND	U	0.702	ND	U	0.689	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	UJ	0.355	ND	UJ	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	ACENAPHTHENE	338	3,440	0.0249	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	ANTHRACENE	5,410	17,200	0.0607	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	0.2	J	0.355	0.106	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	**0.18**	J	0.355	**0.268**	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	0.225	J	0.355	0.292	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	0.155	J	0.355	0.258	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0977	J	0.355	0.11	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	CARBAZOLE	NE	NE	0.0465	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	CHRYSENE	160	147	0.212	J	0.355	0.123	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DIBENZOFURAN	NE	NE	0.0153	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	FLUORANTHENE	2,430	2,290	0.377		0.355	0.0692	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	FLUORENE	406	2,290	0.0269	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.113	J	0.355	0.207	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	0.0308	J	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP213			DP213			DP213			DP213			DP213			DP214			DP214			DP214		
		SAMPLE NO		FFOR1189			FFOR1190			FFOR1191			FFOR1192			FFOR1193			FFOR1194			FFOR1195			FFOR1196		
		SAMPLE DATE		7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.81	ND	U	1.85	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.72	ND	U	1.83
	PHENANTHRENE	571	1,830	0.235	J	0.355	0.013	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	PYRENE	1,790	1,720	0.317	J	0.355	0.129	J	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.362	ND	U	0.37	ND	U	0.363	ND	U	0.362	ND	U	0.351	ND	U	0.345	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	1-CHLOROHEXANE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	2-BUTANONE	25.5	37,100	ND	U	0.00403	ND	U	0.00546	ND	U	0.00508	ND	U	0.005	ND	U	0.00579	ND	U	0.00409	ND	U	0.00536	ND	U	0.00547
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	2-HEXANONE	NE	NE	ND	U	0.00403	ND	U	0.00546	ND	U	0.00508	ND	U	0.005	ND	U	0.00579	ND	U	0.00409	ND	U	0.00536	ND	U	0.00547
	2-PROPENAL	0.000146	0.404	ND	U	0.0201	ND	U	0.0273	ND	U	0.0254	ND	U	0.025	ND	U	0.029	ND	U	0.0204	ND	UJ	0.0268	ND	U	0.0274
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0201	ND	U	0.0273	ND	U	0.0254	ND	U	0.025	ND	U	0.029	ND	U	0.0204	ND	UJ	0.0268	ND	U	0.0274
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00403	ND	U	0.00546	ND	U	0.00508	ND	U	0.005	ND	U	0.00579	ND	U	0.00409	ND	U	0.00536	ND	U	0.00547
	ACETONE	77.1	66,600	0.00892	J	0.0201	ND	U	0.0273	0.0111	J	0.0254	0.00687	J	0.025	0.00278	J	0.029	0.00162	J	0.0204	0.0186	J	0.0268	0.00619	J	0.0274
	BENZENE	0.0345	15.4	0.000185	J	0.00161	0.000601	J	0.00219	0.00146	J	0.00203	0.000337	J	0.002	0.000501	J	0.00232	0.00013	J	0.00164	0.000242	J	0.00214	0.00103	J	0.00219
	BROMOBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	BROMOFORM	12.1	6,116	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	BROMOMETHANE	0.0385	16.5	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	UJ	0.00214	ND	U	0.00219
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CHLOROBENZENE	0.984	376	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CHLOROETHANE	107	29,800	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CHLOROFORM	0.00918	5.86	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CHLOROMETHANE	0.879	275	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	ETHYLBENZENE	0.26	68.4	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	M,P-XYLENES	NE	NE	ND	U	0.00322	ND	U	0.00437	ND	U	0.00406	ND	U	0.004	ND	U	0.00463	ND	U	0.00327	ND	U	0.00429	ND	U	0.00438
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00403	ND	U	0.00546	ND	U	0.00508	ND	U	0.005	ND	U	0.00579	ND	U	0.00409	ND	U	0.00536	ND	U	0.00547
	NAPHTHALENE	0.0713	43.0	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	N-BUTYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	N-PROPYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	O-XYLENE	3.13	898	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP213			DP213			DP213			DP213			DP213			DP214			DP214			DP214		
		SAMPLE NO		FFOR1189			FFOR1190			FFOR1191			FFOR1192			FFOR1193			FFOR1194			FFOR1195			FFOR1196		
		SAMPLE DATE		7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	STYRENE	27.7	7,280	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TOLUENE	25.3	5,270	ND	U	0.00161	ND	U	0.00219	0.00271		0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	0.00226		0.00219
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00161	ND	UJ	0.00219	ND	UJ	0.00203	ND	UJ	0.002	ND	UJ	0.00232	ND	UJ	0.00164	ND	U	0.00214	ND	UJ	0.00219
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00161	ND	U	0.00219	ND	U	0.00203	ND	U	0.002	ND	U	0.00232	ND	U	0.00164	ND	U	0.00214	ND	U	0.00219
	XYLENES	3.13	814	ND	U	0.00483	ND	U	0.00656	ND	U	0.0061	ND	U	0.006	ND	U	0.00695	ND	U	0.00491	ND	U	0.00643	ND	U	0.00657
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.09		0.65	6.04		0.66	5.48		0.67	4.57		0.66	3.91		0.66	5.13		0.64	4.12		0.64	6.26		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP214			DP214			DP215			DP215			DP215			DP215			DP215			DP215		
			SAMPLE NO	FFOR1197			FFOR1198-R			FFOR1199			FFOR1200			FFOR1201			FFOR1202			FFOR1203			FFOR1204		
			SAMPLE DATE	7-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.31	ND	U	4.7	3.52	J	4.56	ND	U	4.25	2.03	J	4.48	1.72	J	4.31	ND	U	4.33	ND	U	4.37
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.19	ND	U	4.75	ND	U	6.05	ND	U	5.48	ND	U	4.82	ND	U	5.02	ND	U	3.85	ND	U	4.84
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.718	ND	U	0.775	ND	U	0.757	ND	U	0.714	ND	U	0.728	ND	U	0.709	ND	U	0.727	ND	U	0.726
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.162	J	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP214			DP214			DP215			DP215			DP215			DP215			DP215			DP215			DP215		
		SAMPLE NO		FFOR1197			FFOR1198-R			FFOR1199			FFOR1200			FFOR1201			FFOR1202			FFOR1203			FFOR1204		
		SAMPLE DATE		7-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.94	ND	U	1.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.82	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.388	ND	U	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.388	ND	UJ	0.379	ND	U	0.357	ND	U	0.364	ND	U	0.355	ND	U	0.363	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	1-CHLOROHEXANE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	2-BUTANONE	25.5	37,100	ND	U	0.00586	ND	U	0.00479	ND	U	0.0105	ND	U	0.00564	ND	U	0.00479	0.0075	J	0.00779	0.00359	J	0.00546	0.00703		0.00669
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	2-HEXANONE	NE	NE	ND	U	0.00586	ND	U	0.00479	ND	U	0.0105	ND	U	0.00564	ND	U	0.00479	ND	U	0.00779	ND	U	0.00546	ND	U	0.00669
	2-PROPENAL	0.000146	0.404	ND	U	0.0293	ND	UJ	0.024	ND	U	0.0527	ND	U	0.0282	ND	U	0.024	ND	UJ	0.0389	ND	UJ	0.0273	ND	UJ	0.0335
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0293	ND	U	0.024	ND	U	0.0527	ND	U	0.0282	ND	U	0.024	ND	UJ	0.0389	ND	UJ	0.0273	ND	UJ	0.0335
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00586	ND	U	0.00479	ND	U	0.0105	ND	U	0.00564	ND	U	0.00479	ND	U	0.00779	ND	U	0.00546	ND	U	0.00669
	ACETONE	77.1	66,600	0.0142	J	0.0293	0.0125	J	0.024	0.0165	J	0.0527	0.00515	J	0.0282	0.00259	J	0.024	0.0383	J	0.0389	0.0166	J	0.0273	0.044		0.0335
	BENZENE	0.0345	15.4	0.00119	J	0.00234	0.00068	J	0.00192	0.000435	J	0.00422	0.000515	J	0.00226	0.00135	J	0.00192	0.00195	J	0.00312	0.000585	J	0.00219	0.00102	J	0.00268
	BROMOBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	BROMOFORM	12.1	6,116	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	BROMOMETHANE	0.0385	16.5	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CHLOROBENZENE	0.984	376	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CHLOROETHANE	107	29,800	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CHLOROFORM	0.00918	5.86	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CHLOROMETHANE	0.879	275	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	ETHYLBENZENE	0.26	68.4	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	0.000481	J	0.00312	0.000293	J	0.00219	0.000395	J	0.00268
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	M,P-XYLENES	NE	NE	ND	U	0.00469	ND	U	0.00383	ND	UJ	0.00844	ND	U	0.00451	ND	U	0.00383	0.00128	J	0.00623	ND	U	0.00437	ND	U	0.00535
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00586	ND	U	0.00479	ND	UJ	0.0105	ND	U	0.00564	ND	U	0.00479	ND	U	0.00779	ND	U	0.00546	ND	U	0.00669
	NAPHTHALENE	0.0713	43.0	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	N-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	N-PROPYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	O-XYLENE	3.13	898	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP214			DP214			DP215			DP215			DP215			DP215			DP215			DP215			DP215		
		SAMPLE NO		FFOR1197			FFOR1198-R			FFOR1199			FFOR1200			FFOR1201			FFOR1202			FFOR1203			FFOR1204		
		SAMPLE DATE		7-Jun-11			16-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	STYRENE	27.7	7,280	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TOLUENE	25.3	5,270	0.00219	J	0.00234	0.00102	J	0.00192	ND	UJ	0.00422	ND	U	0.00226	0.0028		0.00192	0.00194	J	0.00312	ND	U	0.00219	0.000636	J	0.00268
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00234	ND	U	0.00192	ND	U	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	UJ	0.00226	ND	UJ	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00234	ND	U	0.00192	ND	UJ	0.00422	ND	U	0.00226	ND	U	0.00192	ND	U	0.00312	ND	U	0.00219	ND	U	0.00268
	XYLENES	3.13	814	ND	U	0.00703	ND	U	0.00575	ND	UJ	0.0127	ND	U	0.00677	ND	U	0.00575	0.00128	J	0.00935	ND	U	0.00656	ND	U	0.00803
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.13		0.65	5		0.7	3.78	J-	1.38	4.39		0.64	6.31		0.67	6.73		0.65	4.48		0.66	4.75		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP216			DP216			DP216			DP216			DP216			DP217			DP217			DP217		
			SAMPLE NO	FFOR1205			FFOR1206			FFOR1207			FFOR1208			FFOR1209			FFOR1210			FFOR1211			FFOR1212		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.11	J	4.33	2.19	J	4.28	ND	U	4.42	ND	U	4.41	ND	U	4.2	6.04		4.38	1.53	J	4.22	1.47	J	4.53
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.47	ND	U	5.43	0.788	J	5.33	ND	U	7.41	ND	U	5.46	ND	U	5.89	ND	U	3.87	ND	U	5.75
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2-CHLOROPHENOL	2.31	391	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.724	ND	U	0.707	ND	U	0.726	ND	U	0.718	ND	U	0.692	ND	U	0.73	ND	U	0.699	ND	U	0.755
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	4-CHLOROANILINE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	ACENAPHTHYLENE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	ANTHRACENE	5,410	17,200	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BENZENAMINE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0398	J	0.365	ND	U	0.349	ND	U	0.378
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0352	J	0.365	ND	U	0.349	ND	U	0.378
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0296	J	0.365	ND	U	0.349	ND	U	0.378
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0304	J	0.365	ND	U	0.349	ND	U	0.378
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	CARBAZOLE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	CHRYSENE	160	147	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.029	J	0.365	ND	U	0.349	ND	U	0.378
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	DIBENZOFURAN	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	DIETHYL PHTHALATE	193	48,900	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	FLUORANTHENE	2,430	2,290	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0738	J	0.365	ND	U	0.349	ND	U	0.378
	FLUORENE	406	2,290	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	ISOPHORONE	3.84	5,120	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	NAPHTHALENE	0.0713	43.0	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	NITROBENZENE	0.0125	53.5	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378

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			LOCATION CODE	DP216			DP216			DP216			DP216			DP216			DP217			DP217			DP217		
			SAMPLE NO	FFOR1205			FFOR1206			FFOR1207			FFOR1208			FFOR1209			FFOR1210			FFOR1211			FFOR1212		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.77	ND	U	1.82	ND	U	1.79	ND	U	1.73	ND	U	1.83	ND	U	1.75	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0526	J	0.365	ND	U	0.349	ND	U	0.378
	PHENOL	99.5	18,300	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
	PYRENE	1,790	1,720	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	0.0539	J	0.365	ND	U	0.349	ND	U	0.378
	PYRIDINE	NE	NE	ND	U	0.362	ND	U	0.353	ND	U	0.363	ND	U	0.359	ND	U	0.346	ND	U	0.365	ND	U	0.349	ND	U	0.378
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	0.000719	J	0.00231
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	0.00042	J	0.00231
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	1-CHLOROHEXANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	2-BUTANONE	25.5	37,100	0.00168	J	0.00597	0.00215	J	0.00538	0.00433	J	0.00552	0.000505	J	0.00305	0.0036	J	0.0051	0.00101	J	0.00702	ND	U	0.00538	0.00496	J	0.00578
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	2-HEXANONE	NE	NE	ND	U	0.00597	ND	U	0.00538	ND	U	0.00552	ND	U	0.00305	ND	U	0.0051	ND	U	0.00702	ND	U	0.00538	ND	U	0.00578
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0299	ND	UJ	0.0269	ND	UJ	0.0276	ND	UJ	0.0152	ND	UJ	0.0255	ND	UJ	0.0351	ND	UJ	0.0269	ND	UJ	0.0289
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0299	ND	UJ	0.0269	ND	UJ	0.0276	ND	UJ	0.0152	ND	UJ	0.0255	ND	UJ	0.0351	ND	UJ	0.0269	ND	UJ	0.0289
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00597	ND	U	0.00538	ND	U	0.00552	ND	U	0.00305	ND	U	0.0051	ND	U	0.00702	ND	U	0.00538	ND	U	0.00578
	ACETONE	77.1	66,600	0.0173	J	0.0299	0.0145	J	0.0269	0.024	J	0.0276	0.00326	J	0.0152	0.0277		0.0255	0.0185	J	0.0351	0.0226	J	0.0269	0.0189		0.00578
	BENZENE	0.0345	15.4	ND	U	0.00239	0.000405	J	0.00215	0.00134	J	0.00221	ND	U	0.00122	0.000798	J	0.00204	ND	U	0.00281	ND	U	0.00215	0.00161	J	0.00231
	BROMOBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	BROMOFORM	12.1	6,116	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	BROMOMETHANE	0.0385	16.5	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CHLOROBENZENE	0.984	376	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CHLOROETHANE	107	29,800	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CHLOROFORM	0.00918	5.86	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CHLOROMETHANE	0.879	275	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	ETHYLBENZENE	0.26	68.4	ND	U	0.00239	0.000284	J	0.00215	0.00037	J	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	M,P-XYLENES	NE	NE	ND	U	0.00478	ND	U	0.0043	0.000953	J	0.00442	ND	U	0.00244	ND	U	0.00408	ND	U	0.00562	ND	U	0.0043	0.00152	J	0.00463
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00597	ND	U	0.00538	ND	U	0.00552	ND	U	0.00305	ND	U	0.0051	ND	U	0.00702	ND	U	0.00538	ND	U	0.00578
	NAPHTHALENE	0.0713	43.0	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	N-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	N-PROPYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	O-XYLENE	3.13	898	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231

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			LOCATION CODE	DP216			DP216			DP216			DP216			DP216			DP217			DP217			DP217		
			SAMPLE NO	FFOR1205			FFOR1206			FFOR1207			FFOR1208			FFOR1209			FFOR1210			FFOR1211			FFOR1212		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11			7-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	STYRENE	27.7	7,280	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TOLUENE	25.3	5,270	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	VINYL ACETATE	1.52	2,560	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	UJ	0.00215	ND	UJ	0.00231
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00239	ND	U	0.00215	ND	U	0.00221	ND	U	0.00122	ND	U	0.00204	ND	U	0.00281	ND	U	0.00215	ND	U	0.00231
	XYLENES	3.13	814	ND	U	0.00716	ND	U	0.00645	0.000953	J	0.00662	ND	U	0.00366	ND	U	0.00612	ND	U	0.00843	ND	U	0.00646	0.00152	J	0.00694
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.5		0.66	3.56		0.64	6.74	J	0.67	6.97		0.66	4.87		0.64	4.2		1.33	4.33		0.64	7.7		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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		LOCATION CODE		DP217			DP217			DP217			DP218			DP218			DP218			DP218			DP218				
		SAMPLE NO		FFOR1213			FFOR1214			FFOR1215			FFOR1216			FFOR1217			FFOR1218			FFOR1219			FFOR1220				
		SAMPLE DATE		7-Jun-11			7-Jun-11			7-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11				
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG				
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ		
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.48	ND	U	4.39	ND	U	4.33	2.3	J	4.43	ND	U	4.31	ND	U	4.42	ND	U	4.46	ND	U	4.26		
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.43	ND	U	5.77	ND	U	4.66	ND	U	5.38	ND	U	8.92	ND	U	4.2	ND	U	4.52	ND	U	5.96		
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2-CHLOROPHENOL	2.31	391	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	2-NITROPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.729	ND	U	0.724	ND	U	0.717	ND	U	0.731	ND	U	0.711	ND	U	0.73	ND	U	0.736	ND	U	0.703		
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	4-CHLOROANILINE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76		
	ACENAPHTHENE	338	3,440	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	ACENAPHTHYLENE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	ANTHRACENE	5,410	17,200	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZENAMINE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	CARBAZOLE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	CHRYSENE	160	147	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DIBENZOFURAN	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DIETHYL PHTHALATE	193	48,900	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	FLUORANTHENE	2,430	2,290	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	FLUORENE	406	2,290	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	ISOPHORONE	3.84	5,120	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	NAPHTHALENE	0.0713	43.0	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	NITROBENZENE	0.0125	53.5	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352		

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			LOCATION CODE	DP217			DP217			DP217			DP218			DP218			DP218			DP218			DP218		
			SAMPLE NO	FFOR1213			FFOR1214			FFOR1215			FFOR1216			FFOR1217			FFOR1218			FFOR1219			FFOR1220		
			SAMPLE DATE	7-Jun-11			7-Jun-11			7-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.81	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.82	ND	U	1.84	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.364	ND	U	0.362	ND	U	0.358	ND	U	0.366	ND	U	0.355	ND	U	0.365	ND	U	0.368	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000411	J	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	0.000387	J	0.00192	ND	U	0.00166	0.000146	J	0.00186
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	0.000188	J	0.00192	ND	U	0.00166	ND	U	0.00186
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	1-CHLOROHEXANE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	2-BUTANONE	25.5	37,100	0.00496	J	0.00523	0.00682		0.00602	0.00708		0.00651	0.00779		0.00468	0.00487	J	0.00501	0.00413	J	0.00481	0.0038	J	0.00414	0.00541		0.00465
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	2-HEXANONE	NE	NE	ND	U	0.00523	ND	U	0.00602	ND	U	0.00651	ND	U	0.00468	ND	U	0.00501	ND	U	0.00481	ND	U	0.00414	ND	U	0.00465
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0261	ND	UJ	0.0301	ND	UJ	0.0326	ND	UJ	0.0234	ND	UJ	0.025	ND	UJ	0.024	ND	UJ	0.0207	ND	UJ	0.0232
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0261	ND	UJ	0.0301	ND	UJ	0.0326	ND	UJ	0.0234	ND	UJ	0.025	ND	UJ	0.024	ND	UJ	0.0207	ND	UJ	0.0232
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00523	ND	U	0.00602	ND	U	0.00651	ND	U	0.00468	ND	U	0.00501	ND	U	0.00481	ND	U	0.00414	ND	U	0.00465
	ACETONE	77.1	66,600	0.0181	J	0.0261	0.0271	J	0.0301	0.0302	J	0.0326	ND	U	0.0234	ND	U	0.025	ND	U	0.024	ND	U	0.0207	ND	U	0.0232
	BENZENE	0.0345	15.4	0.000978	J	0.00209	ND	U	0.00241	0.00097	J	0.00261	0.000343	J	0.00187	ND	U	0.002	0.00102	J	0.00192	0.000125	J	0.00166	0.000538	J	0.00186
	BROMOBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	BROMOFORM	12.1	6,116	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	BROMOMETHANE	0.0385	16.5	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CHLOROBENZENE	0.984	376	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CHLOROETHANE	107	29,800	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CHLOROFORM	0.00918	5.86	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CHLOROMETHANE	0.879	275	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	ETHYLBENZENE	0.26	68.4	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	0.000425	J	0.00192	ND	U	0.00166	0.000315	J	0.00186
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	M,P-XYLENES	NE	NE	0.000919	J	0.00418	ND	U	0.00482	ND	U	0.00521	ND	U	0.00374	ND	U	0.004	0.00103	J	0.00385	ND	U	0.00331	0.00033	J	0.00372
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00523	ND	U	0.00602	ND	U	0.00651	ND	U	0.00468	ND	U	0.00501	ND	U	0.00481	ND	U	0.00414	ND	U	0.00465
	NAPHTHALENE	0.0713	43.0	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	N-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	N-PROPYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	O-XYLENE	3.13	898	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	0.000207	J	0.00192	ND	U	0.00166	ND	U	0.00186

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		LOCATION CODE		DP217			DP217			DP217			DP218			DP218			DP218			DP218			DP218		
		SAMPLE NO		FFOR1213			FFOR1214			FFOR1215			FFOR1216			FFOR1217			FFOR1218			FFOR1219			FFOR1220		
		SAMPLE DATE		7-Jun-11			7-Jun-11			7-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	STYRENE	27.7	7,280	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TOLUENE	25.3	5,270	0.00176	J	0.00209	ND	U	0.00241	0.00151	J	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00209	ND	UJ	0.00241	ND	UJ	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00209	ND	U	0.00241	ND	U	0.00261	ND	U	0.00187	ND	U	0.002	ND	U	0.00192	ND	U	0.00166	ND	U	0.00186
	XYLENES	3.13	814	0.000919	J	0.00628	ND	U	0.00723	ND	U	0.00782	ND	U	0.00561	ND	U	0.00601	0.00124	J	0.00577	ND	U	0.00497	ND	U	0.00558
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.52		0.67	4.92		0.66	5.03		0.66	3.53		0.66	3.55		0.64	5.32		0.66	5.17		0.67	4.25		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP219			DP219			DP219			DP219			DP219			DP219			DP220			DP220		
			SAMPLE NO	FFOR1221			FFOR1222			FFOR1223			FFOR1224			FFOR1225			FFOR1226			FFOR1227			FFOR1228		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.79	J	4.42	ND	U	4.33	ND	U	4.32	ND	U	4.54	ND	U	4.42	ND	U	4.51	ND	U	4.46	1.76	J	4.38
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.86	ND	U	4.6	ND	U	5.64	ND	U	5.76	ND	U	4.16	ND	U	5.96	ND	U	5.12
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.73	ND	U	0.714	ND	U	0.712	ND	U	0.748	ND	U	0.73	ND	U	0.744	ND	U	0.735	ND	U	0.723
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP219			DP219			DP219			DP219			DP219			DP219			DP220			DP220		
			SAMPLE NO	FFOR1221			FFOR1222			FFOR1223			FFOR1224			FFOR1225			FFOR1226			FFOR1227			FFOR1228		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.79	ND	U	1.78	ND	U	1.87	ND	U	1.82	ND	U	1.86	ND	U	1.84	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.365	ND	U	0.357	ND	U	0.356	ND	U	0.374	ND	U	0.365	ND	U	0.372	ND	U	0.368	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	0.00155	J	0.00237	ND	U	0.00216	0.000991	J	0.00211	0.00101	J	0.00219	0.000778	J	0.00199	0.000759	J	0.00197
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	0.000879	J	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	1-CHLOROHEXANE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	2-BUTANONE	25.5	37,100	0.00399	J	0.00512	0.00231	J	0.00422	0.0067		0.00592	0.00482	J	0.00541	0.00537		0.00529	0.00613		0.00548	0.003	J	0.00496	0.00275	J	0.00491
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	2-HEXANONE	NE	NE	ND	U	0.00512	ND	U	0.00422	ND	U	0.00592	ND	U	0.00541	ND	U	0.00529	ND	U	0.00548	ND	U	0.00496	ND	U	0.00491
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0256	ND	UJ	0.0211	ND	UJ	0.0296	ND	UJ	0.027	ND	U	0.0264	ND	U	0.0274	ND	U	0.0248	ND	U	0.0246
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0256	ND	UJ	0.0211	ND	UJ	0.0296	ND	UJ	0.027	ND	U	0.0264	ND	U	0.0274	ND	U	0.0248	ND	U	0.0246
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00512	ND	U	0.00422	ND	U	0.00592	ND	U	0.00541	ND	U	0.00529	ND	U	0.00548	ND	U	0.00496	ND	U	0.00491
	ACETONE	77.1	66,600	ND	U	0.0256	ND	U	0.0211	ND	UJ	0.0296	ND	U	0.027	0.0152	J	0.0264	0.0171	J	0.0274	0.00449	J	0.0248	0.00361	J	0.0246
	BENZENE	0.0345	15.4	ND	U	0.00205	0.000092	J	0.00169	0.00464		0.00237	0.000293	J	0.00216	0.000998	J	0.00211	0.000951	J	0.00219	ND	U	0.00199	ND	U	0.00197
	BROMOBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	BROMOFORM	12.1	6,116	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	BROMOMETHANE	0.0385	16.5	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CHLOROBENZENE	0.984	376	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CHLOROETHANE	107	29,800	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CHLOROFORM	0.00918	5.86	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CHLOROMETHANE	0.879	275	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	ETHYLBENZENE	0.26	68.4	ND	U	0.00205	ND	U	0.00169	0.00126	J	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	M,P-XYLENES	NE	NE	ND	U	0.0041	ND	U	0.00337	0.00385	J	0.00473	ND	U	0.00433	ND	U	0.00423	ND	U	0.00439	ND	U	0.00397	ND	U	0.00393
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00512	ND	U	0.00422	ND	U	0.00592	ND	U	0.00541	ND	U	0.00529	ND	U	0.00548	ND	U	0.00496	ND	U	0.00491
	NAPHTHALENE	0.0713	43.0	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	N-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	N-PROPYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	O-XYLENE	3.13	898	ND	U	0.00205	ND	U	0.00169	0.000989	J	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP219			DP219			DP219			DP219			DP219			DP219			DP220			DP220		
			SAMPLE NO	FFOR1221			FFOR1222			FFOR1223			FFOR1224			FFOR1225			FFOR1226			FFOR1227			FFOR1228		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	STYRENE	27.7	7,280	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TOLUENE	25.3	5,270	ND	U	0.00205	ND	U	0.00169	0.00625		0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	VINYL ACETATE	1.52	2,560	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00205	ND	U	0.00169	ND	U	0.00237	ND	U	0.00216	ND	U	0.00211	ND	U	0.00219	ND	U	0.00199	ND	U	0.00197
	XYLENES	3.13	814	ND	U	0.00614	ND	U	0.00506	0.00484	J	0.0071	ND	U	0.00649	ND	U	0.00634	ND	U	0.00658	ND	U	0.00596	ND	U	0.0059
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.17		0.66	3.42		0.65	5.32	J-	0.65	4.68		0.68	4.52		0.66	5.26		0.68	3.37		0.67	3.88		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP220			DP220			DP220			DP220			DP221			DP221			DP221			DP221		
			SAMPLE NO	FFOR1229			FFOR1231			FFOR1232			FFOR1230-R			FFOR1233			FFOR1234			FFOR1235			FFOR1236		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			16-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.94		4.33	5.72		4.5	5.17		4.31	ND	U	5.4	6.91		4.39	3.24	J	4.24	4.98		4.22	ND	U	4.52
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.58	ND	U	4.59	ND	U	4.07	ND	U	5.09	ND	U	4.54	ND	U	4.1	ND	U	4.48	ND	U	5.67
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2-CHLOROPHENOL	2.31	391	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.714	ND	U	0.742	ND	U	0.711	ND	U	0.877	ND	U	0.724	ND	U	0.7	ND	U	0.696	ND	U	0.74
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	4-CHLOROANILINE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	ACENAPHTHYLENE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	ANTHRACENE	5,410	17,200	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZENAMINE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	CARBAZOLE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	CHRYSENE	160	147	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DIBENZOFURAN	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DIETHYL PHTHALATE	193	48,900	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	FLUORANTHENE	2,430	2,290	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	FLUORENE	406	2,290	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	ISOPHORONE	3.84	5,120	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	NAPHTHALENE	0.0713	43.0	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	NITROBENZENE	0.0125	53.5	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP220			DP220			DP220			DP220			DP221			DP221			DP221			DP221		
			SAMPLE NO	FFOR1229			FFOR1231			FFOR1232			FFOR1230-R			FFOR1233			FFOR1234			FFOR1235			FFOR1236		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			16-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.86	ND	U	1.78	ND	U	2.19	ND	U	1.81	ND	U	1.75	ND	U	1.74	ND	U	1.85
	PHENANTHRENE	571	1,830	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	PHENOL	99.5	18,300	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	PYRENE	1,790	1,720	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
	PYRIDINE	NE	NE	ND	U	0.357	ND	U	0.371	ND	U	0.356	ND	U	0.439	ND	U	0.362	ND	U	0.35	ND	U	0.348	ND	U	0.37
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000691	J	0.00183	0.000928	J	0.00218	0.000819	J	0.0021	ND	U	0.00236	0.000677	J	0.00181	0.000604	J	0.00145	0.0007	J	0.0017	0.00166	J	0.00231
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	1-CHLOROHEXANE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	2-BUTANONE	25.5	37,100	0.00309	J	0.00457	0.00554		0.00546	0.00427	J	0.00524	ND	U	0.00591	0.00278	J	0.00453	0.00224	J	0.00362	0.00303	J	0.00426	0.00497	J	0.00577
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	2-HEXANONE	NE	NE	ND	U	0.00457	ND	U	0.00546	ND	U	0.00524	ND	U	0.00591	ND	U	0.00453	ND	U	0.00362	ND	U	0.00426	ND	U	0.00577
	2-PROPENAL	0.000146	0.404	ND	U	0.0229	ND	U	0.0273	ND	U	0.0262	ND	UJ	0.0295	ND	U	0.0227	ND	U	0.0181	ND	U	0.0213	ND	U	0.0289
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0229	ND	U	0.0273	ND	U	0.0262	ND	U	0.0295	ND	U	0.0227	ND	U	0.0181	ND	U	0.0213	ND	U	0.0289
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00457	ND	U	0.00546	ND	U	0.00524	ND	U	0.00591	ND	U	0.00453	ND	U	0.00362	ND	U	0.00426	ND	U	0.00577
	ACETONE	77.1	66,600	0.00797	J	0.0229	0.0165	J	0.0273	0.0101	J	0.0262	0.0141	J	0.0295	0.00609	J	0.0227	0.00389	J	0.0181	0.00597	J	0.0213	0.00606	J	0.0289
	BENZENE	0.0345	15.4	ND	U	0.00183	0.000711	J	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	0.00274		0.00231
	BROMOBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	BROMOFORM	12.1	6,116	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	BROMOMETHANE	0.0385	16.5	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CHLOROBENZENE	0.984	376	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CHLOROETHANE	107	29,800	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CHLOROFORM	0.00918	5.86	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CHLOROMETHANE	0.879	275	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	ETHYLBENZENE	0.26	68.4	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	M,P-XYLENES	NE	NE	ND	U	0.00366	ND	U	0.00437	ND	U	0.00419	0.00147	J	0.00472	ND	U	0.00363	ND	U	0.00289	ND	U	0.00341	ND	U	0.00462
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00457	ND	U	0.00546	ND	U	0.00524	ND	U	0.00591	ND	U	0.00453	ND	U	0.00362	ND	U	0.00426	ND	U	0.00577
	NAPHTHALENE	0.0713	43.0	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	N-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	N-PROPYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	O-XYLENE	3.13	898	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP220			DP220			DP220			DP220			DP221			DP221			DP221			DP221		
			SAMPLE NO	FFOR1229			FFOR1231			FFOR1232			FFOR1230-R			FFOR1233			FFOR1234			FFOR1235			FFOR1236		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			16-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			15-16 FT			20-21 FT			10-11 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	STYRENE	27.7	7,280	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TOLUENE	25.3	5,270	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	0.00281		0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	0.00414		0.00231
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	UJ	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	VINYL ACETATE	1.52	2,560	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00183	ND	U	0.00218	ND	U	0.0021	ND	U	0.00236	ND	U	0.00181	ND	U	0.00145	ND	U	0.0017	ND	U	0.00231
	XYLENES	3.13	814	ND	U	0.00549	ND	U	0.00655	ND	U	0.00629	0.00147	J	0.00709	ND	U	0.00544	ND	U	0.00434	ND	U	0.00511	ND	U	0.00693
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.27		0.64	6.46		0.67	3.87		0.65	7.29		0.81	5.7		0.66	4.01		0.64	3.93		0.63	6.65	J-	0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP221			DP221			DP222			DP222			DP222			DP222			DP222			DP223		
				SAMPLE NO	FFOR1237			FFOR1238			FFOR1239			FFOR1240			FFOR1241			FFOR1242			FFOR1243			FFOR1244		
				SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			5-Jun-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.42	ND	U	4.29	1.49	J	4.21	1.58	J	4.44	ND	U	4.38	ND	U	4.34	ND	U	4.36	2.07	J	4.46
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.29	ND	U	8.65	ND	U	4.52	ND	U	5.31	ND	U	5.03	ND	U	5.7	ND	U	5.72	ND	U	6.42
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.726	ND	U	0.705	ND	U	0.688	ND	U	0.737	ND	U	0.728	ND	U	0.714	ND	U	0.711	ND	UJ	0.743
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	UJ	0.372
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	ANTHRACENE	5,410	17,200	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	UJ	0.372
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0261	J	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	CHRYSENE	160	147	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	FLUORANTHENE	2,430	2,290	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP221			DP221			DP222			DP222			DP222			DP222			DP222			DP223		
		SAMPLE NO		FFOR1237			FFOR1238			FFOR1239			FFOR1240			FFOR1241			FFOR1242			FFOR1243			FFOR1244		
		SAMPLE DATE		6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			5-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.76	ND	U	1.72	ND	U	1.84	ND	U	1.82	ND	U	1.78	ND	U	1.78	ND	U	1.86
	PHENANTHRENE	571	1,830	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	PYRENE	1,790	1,720	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.352	ND	U	0.344	ND	U	0.368	ND	U	0.364	ND	U	0.357	ND	U	0.356	ND	U	0.372
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000903	J	0.00226	0.000694	J	0.00188	0.000619	J	0.00168	0.000746	J	0.00202	0.00102	J	0.00236	0.00105	J	0.00276	0.000822	J	0.00193	0.000227	J	0.00229
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	1-CHLOROHEXANE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	2-BUTANONE	25.5	37,100	0.00483	J	0.00565	0.00314	J	0.00469	0.0031	J	0.0042	0.00355	J	0.00505	0.00456	J	0.0059	0.00759		0.00689	0.00442	J	0.00483	0.00247	J	0.00572
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	2-HEXANONE	NE	NE	ND	U	0.00565	ND	U	0.00469	ND	U	0.0042	ND	U	0.00505	ND	U	0.0059	ND	U	0.00689	ND	U	0.00483	ND	U	0.00572
	2-PROPENAL	0.000146	0.404	ND	U	0.0283	ND	U	0.0234	ND	U	0.021	ND	U	0.0252	ND	U	0.0295	ND	U	0.0344	ND	U	0.0242	ND	UJ	0.0286
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0283	ND	U	0.0234	ND	U	0.021	ND	U	0.0252	ND	U	0.0295	ND	U	0.0344	ND	U	0.0242	ND	U	0.0286
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00565	ND	U	0.00469	ND	U	0.0042	ND	U	0.00505	ND	U	0.0059	ND	U	0.00689	ND	U	0.00483	ND	U	0.00572
	ACETONE	77.1	66,600	0.0122	J	0.0283	0.00434	J	0.0234	0.0103	J	0.021	0.00854	J	0.0252	0.00915	J	0.0295	0.0291	J	0.0344	0.0106	J	0.0242	0.00977	J	0.0286
	BENZENE	0.0345	15.4	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	0.000704	J	0.00236	ND	U	0.00276	0.000696	J	0.00193	0.000129	J	0.00229
	BROMOBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	BROMOFORM	12.1	6,116	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	BROMOMETHANE	0.0385	16.5	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CHLOROBENZENE	0.984	376	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CHLOROETHANE	107	29,800	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CHLOROFORM	0.00918	5.86	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CHLOROMETHANE	0.879	275	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	ETHYLBENZENE	0.26	68.4	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	0.000201	J	0.00229
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	M,P-XYLENES	NE	NE	ND	U	0.00452	ND	U	0.00375	ND	U	0.00336	ND	U	0.00404	ND	U	0.00472	ND	U	0.00551	ND	U	0.00387	ND	U	0.00457
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00565	ND	U	0.00469	ND	U	0.0042	ND	U	0.00505	ND	U	0.0059	ND	U	0.00689	ND	U	0.00483	ND	U	0.00572
	NAPHTHALENE	0.0713	43.0	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	N-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	N-PROPYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	O-XYLENE	3.13	898	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP221			DP221			DP222			DP222			DP222			DP222			DP222			DP223		
			SAMPLE NO	FFOR1237			FFOR1238			FFOR1239			FFOR1240			FFOR1241			FFOR1242			FFOR1243			FFOR1244		
			SAMPLE DATE	6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			6-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	STYRENE	27.7	7,280	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TOLUENE	25.3	5,270	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	VINYL ACETATE	1.52	2,560	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00226	ND	U	0.00188	ND	U	0.00168	ND	U	0.00202	ND	U	0.00236	ND	U	0.00276	ND	U	0.00193	ND	U	0.00229
	XYLENES	3.13	814	ND	U	0.00679	ND	U	0.00563	ND	U	0.00504	ND	U	0.00606	ND	U	0.00708	ND	U	0.00827	ND	U	0.0058	ND	U	0.00686
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.43		0.67	4.05		0.65	3.8		0.63	3.56		0.66	6.07		0.66	6.02		0.66	4.58		0.65	4.1		1.36

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP223			DP223			DP223			DP223			DP223			DP224			DP224			DP224		
		SAMPLE NO		FFOR1245			FFOR1246			FFOR1247			FFOR1248			FFOR1249			FFOR1250			FFOR1251			FFOR1252		
		SAMPLE DATE		5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	ND	U	4.59	ND	U	4.63	ND	U	4.5	ND	U	4.4	ND	U	4.3	ND	U	4.58	ND	U	4.23
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.76	ND	U	5.55	ND	U	6.24	ND	U	5.39	ND	U	4.63	ND	U	6.07	ND	U	6.3	ND	U	6.02
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	UJ	0.706	ND	UJ	0.758	ND	UJ	0.769	ND	U	0.739	ND	U	0.727	ND	U	0.709	ND	U	0.758	ND	U	0.697
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	4-CHLOROANILINE	NE	NE	ND	UJ	0.353	ND	UJ	0.379	ND	UJ	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZENAMINE	NE	NE	ND	UJ	0.353	ND	UJ	0.379	ND	UJ	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP223			DP223			DP223			DP223			DP223			DP224			DP224			DP224		
			SAMPLE NO	FFOR1245			FFOR1246			FFOR1247			FFOR1248			FFOR1249			FFOR1250			FFOR1251			FFOR1252		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.89	ND	U	1.92	ND	U	1.85	ND	U	1.82	ND	U	1.77	ND	U	1.9	ND	U	1.74
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.379	ND	U	0.384	ND	U	0.37	ND	U	0.363	ND	U	0.355	ND	U	0.379	ND	U	0.349
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000296	J	0.002	0.00139	J	0.00236	0.00118	J	0.00195	0.000214	J	0.00234	0.000177	J	0.00151	ND	U	0.0025	ND	U	0.00222	0.000463	J	0.00239
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.002	0.000747	J	0.00236	0.000661	J	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	1-CHLOROHEXANE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	2-BUTANONE	25.5	37,100	0.00488	J	0.005	0.00494	J	0.00589	0.004	J	0.00487	0.00488	J	0.00584	0.00236	J	0.00378	0.0046	J	0.00625	ND	U	0.00556	0.00312	J	0.00598
	2-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	2-HEXANONE	NE	NE	ND	U	0.005	ND	U	0.00589	ND	U	0.00487	ND	U	0.00584	ND	U	0.00378	ND	U	0.00625	ND	U	0.00556	ND	U	0.00598
	2-PROPENAL	0.000146	0.404	ND	UJ	0.025	ND	UJ	0.0295	ND	UJ	0.0243	ND	UJ	0.0292	ND	UJ	0.0189	ND	UJ	0.0312	ND	UJ	0.0278	ND	UJ	0.0299
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.025	ND	U	0.0295	ND	U	0.0243	ND	U	0.0292	ND	U	0.0189	ND	U	0.0312	ND	UJ	0.0278	ND	U	0.0299
	4-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.005	ND	U	0.00589	ND	U	0.00487	ND	U	0.00584	ND	U	0.00378	ND	U	0.00625	ND	U	0.00556	ND	U	0.00598
	ACETONE	77.1	66,600	0.0244	J	0.025	0.0182	J	0.0295	0.0138	J	0.0243	0.0189	J	0.0292	0.0072	J	0.0189	0.0428	J	0.0312	ND	U	0.0278	0.0197	J	0.0299
	BENZENE	0.0345	15.4	0.000914	J	0.002	0.00348		0.00236	0.00315		0.00195	0.000372	J	0.00234	0.000405	J	0.00151	0.000314	J	0.0025	ND	U	0.00222	0.00126	J	0.00239
	BROMOBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	BROMOFORM	12.1	6,116	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	BROMOMETHANE	0.0385	16.5	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CARBON DISULFIDE	5.65	1,530	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	UJ	0.00222	ND	U	0.00239
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CHLOROBENZENE	0.984	376	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CHLOROETHANE	107	29,800	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CHLOROFORM	0.00918	5.86	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CHLOROMETHANE	0.879	275	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	UJ	0.00222	ND	U	0.00239
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	ETHYLBENZENE	0.26	68.4	0.00037	J	0.002	0.00083	J	0.00236	0.0007	J	0.00195	0.000333	J	0.00234	0.000311	J	0.00151	ND	U	0.0025	ND	U	0.00222	0.000444	J	0.00239
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	M,P-XYLENES	NE	NE	ND	U	0.004	0.00319	J	0.00471	0.00279	J	0.0039	ND	U	0.00467	ND	U	0.00302	ND	U	0.005	ND	U	0.00444	ND	U	0.00478
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	METHYLENE CHLORIDE	0.824	409	ND	U	0.005	ND	U	0.00589	ND	U	0.00487	ND	U	0.00584	ND	U	0.00378	ND	U	0.00625	ND	U	0.00556	ND	U	0.00598
	NAPHTHALENE	0.0713	43.0	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	N-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	N-PROPYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	O-XYLENE	3.13	898	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP223			DP223			DP223			DP223			DP223			DP224			DP224			DP224		
		SAMPLE NO		FFOR1245			FFOR1246			FFOR1247			FFOR1248			FFOR1249			FFOR1250			FFOR1251			FFOR1252		
		SAMPLE DATE		5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	STYRENE	27.7	7,280	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TOLUENE	25.3	5,270	ND	U	0.002	0.0046		0.00236	0.00408		0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	VINYL ACETATE	1.52	2,560	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	UJ	0.00222	ND	U	0.00239
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.002	ND	U	0.00236	ND	U	0.00195	ND	U	0.00234	ND	U	0.00151	ND	U	0.0025	ND	U	0.00222	ND	U	0.00239
	XYLENES	3.13	814	ND	U	0.006	0.00408	J	0.00707	0.00347	J	0.00584	ND	U	0.00701	ND	U	0.00454	ND	U	0.0075	ND	U	0.00667	ND	U	0.00717
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.92		0.64	7.55		0.69	7.71		0.7	6.32		0.67	4.56		0.67	3.39		0.64	2.87		1.38	3.76		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP224			DP224			DP225			DP225			DP225			DP225			DP225			DP225		
			SAMPLE NO	FFOR1253			FFOR1254			FFOR1255			FFOR1256			FFOR1257			FFOR1258			FFOR1259			FFOR1260		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.33	3.84	J	4.37	ND	U	4.22	ND	U	4.46	ND	U	4.46	ND	U	4.29	ND	U	4.22
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.19	ND	U	5.55	ND	U	4.96	ND	U	6.28	ND	U	6.64	ND	U	6.09	ND	U	6.63	ND	U	5.98
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.723	ND	U	0.703	ND	U	0.719	ND	U	0.693	ND	U	0.741	ND	U	0.73	ND	U	0.703	ND	U	0.697
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP224			DP224			DP225			DP225			DP225			DP225			DP225			DP225		
			SAMPLE NO	FFOR1253			FFOR1254			FFOR1255			FFOR1256			FFOR1257			FFOR1258			FFOR1259			FFOR1260		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.76	ND	U	1.8	ND	U	1.73	ND	U	1.85	ND	U	1.83	ND	U	1.76	ND	U	1.74
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.352	ND	U	0.359	ND	U	0.347	ND	U	0.37	ND	U	0.365	ND	U	0.352	ND	U	0.348
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000148	J	0.00245	0.000396	J	0.00249	0.000159	J	0.00138	0.000239	J	0.00235	0.00192	J	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	1-CHLOROHEXANE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	2-BUTANONE	25.5	37,100	0.00427	J	0.00612	0.00493	J	0.00622	0.00206	J	0.00345	0.00472	J	0.00588	0.00359	J	0.00627	0.00645	J	0.00658	0.00826		0.00718	0.00598		0.00588
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	2-HEXANONE	NE	NE	ND	U	0.00612	ND	U	0.00622	ND	U	0.00345	ND	U	0.00588	ND	U	0.00627	ND	U	0.00658	ND	U	0.00718	ND	U	0.00588
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0306	ND	UJ	0.0311	ND	UJ	0.0173	ND	UJ	0.0294	ND	U	0.0313	ND	U	0.0329	ND	U	0.0359	ND	U	0.0294
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0306	ND	U	0.0311	ND	U	0.0173	ND	U	0.0294	ND	UJ	0.0313	ND	U	0.0329	ND	U	0.0359	ND	U	0.0294
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00612	ND	U	0.00622	ND	U	0.00345	ND	U	0.00588	ND	U	0.00627	ND	U	0.00658	ND	U	0.00718	ND	U	0.00588
	ACETONE	77.1	66,600	0.0204	J	0.0306	0.0187	J	0.0311	0.00988	J	0.0173	0.0358	J	0.0294	0.0283	J	0.0313	0.0246	J	0.0329	0.038		0.0359	0.0265	J	0.0294
	BENZENE	0.0345	15.4	0.00033	J	0.00245	0.00122	J	0.00249	ND	U	0.00138	0.00068	J	0.00235	0.00235	J	0.00251	0.000341	J	0.00263	0.000946	J	0.00287	0.00085	J	0.00235
	BROMOBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	BROMOFORM	12.1	6,116	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	BROMOMETHANE	0.0385	16.5	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CHLOROBENZENE	0.984	376	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CHLOROETHANE	107	29,800	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CHLOROFORM	0.00918	5.86	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CHLOROMETHANE	0.879	275	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	ETHYLBENZENE	0.26	68.4	ND	U	0.00245	0.00047	J	0.00249	ND	U	0.00138	0.000332	J	0.00235	0.000468	J	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	M,P-XYLENES	NE	NE	ND	U	0.0049	ND	U	0.00498	ND	U	0.00276	ND	U	0.00471	ND	U	0.00502	ND	U	0.00527	ND	U	0.00574	ND	U	0.0047
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00612	ND	U	0.00622	ND	U	0.00345	ND	U	0.00588	ND	UJ	0.00627	ND	U	0.00658	ND	U	0.00718	ND	U	0.00588
	NAPHTHALENE	0.0713	43.0	ND	U	0.00245	ND	U	0.00249	0.00019	J	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	N-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	N-PROPYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	O-XYLENE	3.13	898	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235

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		LOCATION CODE		DP224			DP224			DP225			DP225			DP225			DP225			DP225			DP225			DP225		
		SAMPLE NO		FFOR1253			FFOR1254			FFOR1255			FFOR1256			FFOR1257			FFOR1258			FFOR1259			FFOR1260		
		SAMPLE DATE		5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	STYRENE	27.7	7,280	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TOLUENE	25.3	5,270	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	0.00364		0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	VINYL ACETATE	1.52	2,560	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00245	ND	U	0.00249	ND	U	0.00138	ND	U	0.00235	ND	U	0.00251	ND	U	0.00263	ND	U	0.00287	ND	U	0.00235
	XYLENES	3.13	814	ND	U	0.00735	ND	U	0.00747	ND	U	0.00414	ND	U	0.00706	ND	U	0.00752	ND	U	0.0079	ND	U	0.00862	ND	U	0.00705
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.43		0.67	4.8		0.65	3.95	J	0.66	4.9		0.63	6.77		0.67	5.03		0.67	4.77		0.65	4.45		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP226			DP226			DP226			DP226			DP226			DP227			DP227			DP227		
			SAMPLE NO	FFOR1261			FFOR1262			FFOR1263			FFOR1264			FFOR1265			FFOR1266			FFOR1267			FFOR1268		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.23	ND	U	4.16	1.68	J	4.47	1.58	J	4.38	ND	U	4.34	1.66	J	4.3	ND	U	4.26	1.53	J	4.43
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.39	ND	U	5.17	ND	U	6.53	ND	U	5.96	ND	U	5.86	ND	U	4.73	ND	U	5.32	ND	U	5.62
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.696	ND	U	0.682	ND	U	0.733	ND	U	0.724	ND	U	0.719	ND	U	0.705	ND	U	0.693	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP226			DP226			DP226			DP226			DP226			DP227			DP227			DP227		
			SAMPLE NO	FFOR1261			FFOR1262			FFOR1263			FFOR1264			FFOR1265			FFOR1266			FFOR1267			FFOR1268		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.7	ND	U	1.83	ND	U	1.81	ND	U	1.8	ND	U	1.76	ND	U	1.73	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.341	ND	U	0.366	ND	U	0.362	ND	U	0.359	ND	U	0.352	ND	U	0.346	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	1-CHLOROHEXANE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	2-BUTANONE	25.5	37,100	0.00314	J	0.00584	0.00337	J	0.00528	0.00444	J	0.00625	0.00714	J	0.0073	0.0111		0.00702	ND	U	0.00413	ND	U	0.00524	ND	U	0.00453
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	2-HEXANONE	NE	NE	ND	U	0.00584	ND	U	0.00528	ND	U	0.00625	ND	U	0.0073	ND	U	0.00702	ND	U	0.00413	ND	U	0.00524	ND	U	0.00453
	2-PROPENAL	0.000146	0.404	ND	U	0.0292	ND	U	0.0264	ND	U	0.0312	ND	U	0.0365	ND	U	0.0351	ND	U	0.0207	ND	U	0.0262	ND	U	0.0226
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0292	ND	U	0.0264	ND	U	0.0312	ND	U	0.0365	ND	U	0.0351	ND	UJ	0.0207	ND	UJ	0.0262	ND	UJ	0.0226
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00584	ND	U	0.00528	ND	U	0.00625	ND	U	0.0073	ND	U	0.00702	ND	U	0.00413	ND	U	0.00524	ND	U	0.00453
	ACETONE	77.1	66,600	0.0143	J	0.0292	0.0149	J	0.0264	0.017	J	0.0312	0.0266	J	0.0365	0.037		0.0351	0.0104	J	0.0207	0.0181	J	0.0262	0.00796	J	0.0226
	BENZENE	0.0345	15.4	ND	U	0.00233	0.000142	J	0.00211	0.00163	J	0.0025	0.000519	J	0.00292	0.0011	J	0.00281	ND	U	0.00165	ND	U	0.00209	0.000591	J	0.00181
	BROMOBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	BROMOFORM	12.1	6,116	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	BROMOMETHANE	0.0385	16.5	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CHLOROBENZENE	0.984	376	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CHLOROETHANE	107	29,800	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CHLOROFORM	0.00918	5.86	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CHLOROMETHANE	0.879	275	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	ETHYLBENZENE	0.26	68.4	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	M,P-XYLENES	NE	NE	ND	U	0.00467	ND	U	0.00422	ND	U	0.005	ND	U	0.00584	ND	U	0.00561	ND	U	0.00331	ND	U	0.00419	ND	U	0.00362
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00584	ND	U	0.00528	ND	U	0.00625	ND	U	0.0073	ND	U	0.00702	ND	UJ	0.00413	ND	UJ	0.00524	ND	UJ	0.00453
	NAPHTHALENE	0.0713	43.0	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	N-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	N-PROPYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	O-XYLENE	3.13	898	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP226			DP226			DP226			DP226			DP226			DP227			DP227			DP227		
			SAMPLE NO	FFOR1261			FFOR1262			FFOR1263			FFOR1264			FFOR1265			FFOR1266			FFOR1267			FFOR1268		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	STYRENE	27.7	7,280	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TOLUENE	25.3	5,270	ND	U	0.00233	ND	U	0.00211	0.00272		0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	VINYL ACETATE	1.52	2,560	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00233	ND	U	0.00211	ND	U	0.0025	ND	U	0.00292	ND	U	0.00281	ND	U	0.00165	ND	U	0.00209	ND	U	0.00181
	XYLENES	3.13	814	ND	U	0.007	ND	U	0.00634	ND	U	0.0075	ND	U	0.00876	ND	U	0.00842	ND	U	0.00496	ND	U	0.00628	ND	U	0.00544
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.05		0.63	3.07		0.63	6.13		0.67	5.94		0.65	5.12		0.66	2.91		0.65	2.76		0.64	6		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP227			DP227			DP227			DP228			DP228			DP228			DP228			DP228		
			SAMPLE NO	FFOR1269			FFOR1270			FFOR1271			FFOR1272			FFOR1273			FFOR1274			FFOR1275			FFOR1276		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.48	ND	U	4.37	ND	U	4.37	ND	U	4.33	ND	U	4.34	ND	U	4.81	ND	U	4.43	ND	U	4.31
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.57	ND	U	5.22	ND	U	4.84	ND	U	5.53	ND	U	5.63	ND	U	4.97	ND	U	5.43	ND	U	5.31
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.737	ND	U	0.726	ND	U	0.724	ND	U	0.713	ND	U	0.718	ND	U	0.796	ND	U	0.733	ND	U	0.704
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	ANTHRACENE	5,410	17,200	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	CARBAZOLE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	CHRYSENE	160	147	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	FLUORANTHENE	2,430	2,290	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	FLUORENE	406	2,290	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP227			DP227			DP227			DP228			DP228			DP228			DP228			DP228		
			SAMPLE NO	FFOR1269			FFOR1270			FFOR1271			FFOR1272			FFOR1273			FFOR1274			FFOR1275			FFOR1276		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.78	ND	U	1.79	ND	U	1.99	ND	U	1.83	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.368	ND	U	0.363	ND	U	0.362	ND	U	0.356	ND	U	0.359	ND	U	0.398	ND	U	0.367	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	1-CHLOROHEXANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	2-BUTANONE	25.5	37,100	0.00183	J	0.00598	ND	U	0.00538	0.00204	J	0.00528	ND	U	0.00448	ND	U	0.00532	0.00242	J	0.00532	0.00294	J	0.00522	0.00177	J	0.00436
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	2-HEXANONE	NE	NE	ND	U	0.00598	ND	U	0.00538	ND	U	0.00528	ND	U	0.00448	ND	U	0.00532	ND	U	0.00532	ND	U	0.00522	ND	U	0.00436
	2-PROPENAL	0.000146	0.404	ND	U	0.0299	ND	UJ	0.0269	ND	U	0.0264	ND	U	0.0224	ND	U	0.0266	ND	U	0.0266	ND	U	0.0261	ND	U	0.0218
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0299	ND	UJ	0.0269	ND	UJ	0.0264	ND	UJ	0.0224	ND	UJ	0.0266	ND	UJ	0.0266	ND	UJ	0.0261	ND	UJ	0.0218
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00598	ND	U	0.00538	ND	U	0.00528	ND	U	0.00448	ND	U	0.00532	ND	U	0.00532	ND	U	0.00522	ND	U	0.00436
	ACETONE	77.1	66,600	0.0242	J	0.0299	ND	U	0.0269	0.0176	J	0.0264	0.0133	J	0.0224	0.0183	J	0.0266	0.0227	J	0.0266	0.0211	J	0.0261	0.0191	J	0.0218
	BENZENE	0.0345	15.4	0.000497	J	0.00239	ND	U	0.00215	0.000197	J	0.00211	ND	U	0.00179	ND	U	0.00213	0.00149	J	0.00213	0.0002	J	0.00209	0.000329	J	0.00175
	BROMOBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	BROMOFORM	12.1	6,116	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	BROMOMETHANE	0.0385	16.5	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00239	ND	UJ	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CHLOROBENZENE	0.984	376	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CHLOROETHANE	107	29,800	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CHLOROFORM	0.00918	5.86	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CHLOROMETHANE	0.879	275	ND	U	0.00239	ND	UJ	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	ETHYLBENZENE	0.26	68.4	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	0.000292	J	0.00213	ND	U	0.00209	ND	U	0.00175
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	M,P-XYLENES	NE	NE	ND	U	0.00479	ND	U	0.0043	ND	U	0.00422	ND	U	0.00358	ND	U	0.00426	ND	U	0.00425	ND	U	0.00418	ND	U	0.00349
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00598	ND	U	0.00538	ND	UJ	0.00528	ND	UJ	0.00448	ND	UJ	0.00532	ND	UJ	0.00532	ND	UJ	0.00522	ND	UJ	0.00436
	NAPHTHALENE	0.0713	43.0	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	N-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	N-PROPYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	O-XYLENE	3.13	898	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP227			DP227			DP227			DP228			DP228			DP228			DP228			DP228		
			SAMPLE NO	FFOR1269			FFOR1270			FFOR1271			FFOR1272			FFOR1273			FFOR1274			FFOR1275			FFOR1276		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	STYRENE	27.7	7,280	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TOLUENE	25.3	5,270	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	0.00214		0.00213	ND	U	0.00209	ND	U	0.00175
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	VINYL ACETATE	1.52	2,560	ND	U	0.00239	ND	UJ	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00239	ND	U	0.00215	ND	U	0.00211	ND	U	0.00179	ND	U	0.00213	ND	U	0.00213	ND	U	0.00209	ND	U	0.00175
	XYLENES	3.13	814	ND	U	0.00718	ND	U	0.00645	ND	U	0.00634	ND	U	0.00537	ND	U	0.00639	ND	U	0.00638	ND	U	0.00627	ND	U	0.00524
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.5		0.67	4.71		0.66	4.11		0.67	2.9		0.65	3.49		0.65	8.16		0.72	5.9		0.68	4.28		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP229			DP229			DP229			DP229			DP229			DP229			DP230			DP230		
			SAMPLE NO	FFOR1277			FFOR1278			FFOR1279			FFOR1280			FFOR1281			FFOR1282			FFOR1283			FFOR1284		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.48	ND	U	4.38	2.35	J	4.37	2.03	J	4.4	ND	U	4.28	2.2	J	4.46	2.87	J	4.28	2.36	J	4.29
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.79	ND	U	6.96	ND	U	3.94	ND	U	5.21	ND	U	4.26	ND	U	3.79	ND	U	4.65	ND	U	5.28
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.747	ND	U	0.718	ND	U	0.721	ND	U	0.727	ND	U	0.708	ND	U	0.731	ND	U	0.709	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	0.0756	J	0.365	ND	U	0.354	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP229			DP229			DP229			DP229			DP229			DP229			DP230			DP230		
			SAMPLE NO	FFOR1277			FFOR1278			FFOR1279			FFOR1280			FFOR1281			FFOR1282			FFOR1283			FFOR1284		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.87	ND	U	1.8	ND	U	1.8	ND	U	1.82	ND	U	1.77	ND	U	1.83	ND	U	1.77	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.373	ND	U	0.359	ND	U	0.36	ND	U	0.363	ND	U	0.354	ND	U	0.365	ND	U	0.354	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	0.00059	J	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	1-CHLOROHEXANE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	2-BUTANONE	25.5	37,100	0.00321	J	0.00576	ND	U	0.00482	ND	U	0.00219	ND	U	0.0055	ND	U	0.00534	ND	U	0.00538	ND	U	0.00541	ND	U	0.00556
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	2-HEXANONE	NE	NE	ND	U	0.00576	ND	U	0.00482	ND	U	0.00219	ND	U	0.0055	ND	U	0.00534	ND	U	0.00538	ND	U	0.00541	ND	U	0.00556
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0288	ND	UJ	0.0241	ND	UJ	0.0109	ND	UJ	0.0275	ND	UJ	0.0267	ND	UJ	0.0269	ND	UJ	0.027	ND	UJ	0.0278
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0288	ND	UJ	0.0241	ND	UJ	0.0109	ND	UJ	0.0275	ND	UJ	0.0267	ND	UJ	0.0269	ND	UJ	0.027	ND	UJ	0.0278
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00576	ND	U	0.00482	ND	U	0.00219	ND	U	0.0055	ND	U	0.00534	ND	U	0.00538	ND	U	0.00541	ND	U	0.00556
	ACETONE	77.1	66,600	0.0261	J	0.0288	0.0422		0.0241	0.00258	J	0.0109	ND	U	0.0275	ND	U	0.0267	ND	U	0.0269	ND	U	0.027	ND	U	0.0278
	BENZENE	0.0345	15.4	ND	U	0.00231	0.00121	J	0.00193	0.000154	J	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	BROMOBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	BROMOFORM	12.1	6,116	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	BROMOMETHANE	0.0385	16.5	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CARBON DISULFIDE	5.65	1,530	ND	UJ	0.00231	ND	UJ	0.00193	ND	UJ	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CHLOROBENZENE	0.984	376	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CHLOROETHANE	107	29,800	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CHLOROFORM	0.00918	5.86	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	0.000454	J	0.0022	0.000428	J	0.00213	0.000773	J	0.00215	ND	U	0.00216	ND	U	0.00222
	CHLOROMETHANE	0.879	275	ND	UJ	0.00231	ND	UJ	0.00193	ND	UJ	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	ETHYLBENZENE	0.26	68.4	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	M,P-XYLENES	NE	NE	ND	U	0.00461	0.00116	J	0.00386	ND	U	0.00175	ND	U	0.0044	ND	U	0.00427	ND	U	0.0043	ND	U	0.00433	ND	U	0.00444
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00576	ND	U	0.00482	ND	U	0.00219	ND	U	0.0055	ND	U	0.00534	ND	U	0.00538	ND	U	0.00541	ND	U	0.00556
	NAPHTHALENE	0.0713	43.0	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	N-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	N-PROPYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	O-XYLENE	3.13	898	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP229			DP229			DP229			DP229			DP229			DP229			DP230			DP230		
			SAMPLE NO	FFOR1277			FFOR1278			FFOR1279			FFOR1280			FFOR1281			FFOR1282			FFOR1283			FFOR1284		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	STYRENE	27.7	7,280	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TOLUENE	25.3	5,270	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00231	ND	UJ	0.00193	ND	UJ	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00231	ND	U	0.00193	ND	U	0.000875	ND	U	0.0022	ND	U	0.00213	ND	U	0.00215	ND	U	0.00216	ND	U	0.00222
	XYLENES	3.13	814	ND	U	0.00692	0.00116	J	0.00578	ND	U	0.00263	ND	U	0.0066	ND	U	0.0064	ND	U	0.00645	ND	U	0.00649	ND	U	0.00667
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.76		1.36	5.06		0.66	6.42	J-	0.66	5.78	J-	0.66	4.27		0.65	5.03		0.66	3.57		0.65	3.35		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP230			DP230			DP230			DP230			DP231			DP231			DP231			DP231		
			SAMPLE NO	FFOR1285			FFOR1286			FFOR1287			FFOR1288			FFOR1289			FFOR1290			FFOR1291			FFOR1292		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.85	J	4.24	ND	U	4.46	ND	U	4.37	ND	U	4.31	1.56	J	4.44	ND	U	4.38	ND	U	4.39	ND	U	4.52
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.65	ND	U	4.71	ND	U	4.85	ND	U	4.57	ND	U	5.58	ND	U	5.98	ND	U	5.64	ND	U	6.07
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.693	ND	U	0.736	ND	U	0.733	ND	U	0.707	ND	U	0.733	ND	U	0.723	ND	U	0.73	ND	U	0.746
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	ACENAPHTHYLENE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	ANTHRACENE	5,410	17,200	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZENAMINE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	CARBAZOLE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	CHRYSENE	160	147	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	FLUORANTHENE	2,430	2,290	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP230			DP230			DP230			DP230			DP231			DP231			DP231			DP231		
			SAMPLE NO	FFOR1285			FFOR1286			FFOR1287			FFOR1288			FFOR1289			FFOR1290			FFOR1291			FFOR1292		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.84	ND	U	1.83	ND	U	1.77	ND	U	1.83	ND	U	1.81	ND	U	1.82	ND	U	1.86
	PHENANTHRENE	571	1,830	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	PYRENE	1,790	1,720	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.365	ND	U	0.373
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.368	ND	U	0.366	ND	U	0.353	ND	UJ	0.367	ND	UJ	0.362	ND	UJ	0.365	ND	U	0.373
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	UJ	0.00219
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	0.000885	J	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	0.000347	J	0.00219
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00219	0.00052	J	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	0.000223	J	0.00219
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	1-CHLOROHEXANE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	UJ	0.00219
	2-BUTANONE	25.5	37,100	0.00289	J	0.00547	0.00797		0.00614	0.00451	J	0.00511	0.00543		0.0046	0.0012	J	0.00492	ND	U	0.00611	0.00103	J	0.00504	0.00279	J	0.00546
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	2-HEXANONE	NE	NE	ND	U	0.00547	ND	U	0.00614	ND	U	0.00511	ND	U	0.0046	ND	U	0.00492	ND	U	0.00611	ND	U	0.00504	ND	U	0.00546
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0273	ND	UJ	0.0307	ND	UJ	0.0256	ND	UJ	0.023	ND	UJ	0.0246	ND	UJ	0.0305	ND	UJ	0.0252	ND	UJ	0.0273
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0273	ND	UJ	0.0307	ND	UJ	0.0256	ND	UJ	0.023	ND	UJ	0.0246	ND	UJ	0.0305	ND	UJ	0.0252	ND	U	0.0273
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00547	ND	U	0.00614	ND	U	0.00511	ND	U	0.0046	ND	U	0.00492	ND	U	0.00611	ND	U	0.00504	ND	U	0.00546
	ACETONE	77.1	66,600	0.0255	J	0.0273	0.0364		0.0307	ND	U	0.0256	ND	U	0.023	0.0108		0.00492	0.00997		0.00611	0.00973		0.00504	0.0106	J	0.00546
	BENZENE	0.0345	15.4	0.000223	J	0.00219	0.00371		0.00246	0.000525	J	0.00204	0.000348	J	0.00184	ND	U	0.00197	0.000307	J	0.00244	0.000368	J	0.00201	0.00104	J	0.00219
	BROMOBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	BROMOFORM	12.1	6,116	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	BROMOMETHANE	0.0385	16.5	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CHLOROBENZENE	0.984	376	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CHLOROETHANE	107	29,800	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CHLOROFORM	0.00918	5.86	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CHLOROMETHANE	0.879	275	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	ETHYLBENZENE	0.26	68.4	ND	U	0.00219	0.000531	J	0.00246	0.00028	J	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	0.000403	J	0.00219
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	UJ	0.00219
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	M,P-XYLENES	NE	NE	ND	U	0.00438	0.00252	J	0.00491	ND	U	0.00409	ND	U	0.00368	ND	U	0.00394	ND	U	0.00489	ND	U	0.00403	0.000791	J-	0.00437
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00547	ND	U	0.00614	ND	U	0.00511	ND	U	0.0046	ND	U	0.00492	ND	U	0.00611	ND	U	0.00504	ND	U	0.00546
	NAPHTHALENE	0.0713	43.0	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	N-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	N-PROPYLBENZENE	NE	NE	ND	U	0.00219	0.000173	J	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	O-XYLENE	3.13	898	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	0.000203	J	0.00219

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP230			DP230			DP230			DP230			DP231			DP231			DP231			DP231		
			SAMPLE NO	FFOR1285			FFOR1286			FFOR1287			FFOR1288			FFOR1289			FFOR1290			FFOR1291			FFOR1292		
			SAMPLE DATE	5-Jun-11			5-Jun-11			5-Jun-11			5-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	STYRENE	27.7	7,280	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TOLUENE	25.3	5,270	ND	U	0.00219	0.00429		0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	VINYL ACETATE	1.52	2,560	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00219	ND	U	0.00246	ND	U	0.00204	ND	U	0.00184	ND	U	0.00197	ND	U	0.00244	ND	U	0.00201	ND	U	0.00219
	XYLENES	3.13	814	ND	U	0.00656	0.00252	J	0.00737	ND	U	0.00613	ND	U	0.00552	ND	U	0.00591	ND	U	0.00733	ND	U	0.00604	0.000994	J	0.00656
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.17		0.64	6.53		0.67	5.34		0.67	4.62		0.65	3.38		1.33	4.11		0.66	4.82		0.66	7.87	J	0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP231			DP231			DP232			DP232			DP232			DP232			DP232			DP233		
			SAMPLE NO	FFOR1293			FFOR1294			FFOR1295			FFOR1296			FFOR1297			FFOR1298			FFOR1299			FFOR1300		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.44	ND	U	4.45	ND	U	4.28	ND	U	4.2	ND	U	4.87	1.57	J	4.32	ND	U	4.35	1.95	J	4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.61	ND	U	5.72	ND	U	4.41	ND	U	5.05	0.838	J	5.83	ND	U	4.45	ND	U	5.72	ND	U	4.43
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.732	ND	U	0.734	ND	U	0.712	ND	U	0.702	ND	U	0.79	ND	U	0.708	ND	U	0.718	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	0.0125	J	0.354
	FLUORENE	406	2,290	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP231			DP231			DP232			DP232			DP232			DP232			DP232			DP233		
			SAMPLE NO	FFOR1293			FFOR1294			FFOR1295			FFOR1296			FFOR1297			FFOR1298			FFOR1299			FFOR1300		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.84	ND	U	1.78	ND	U	1.75	ND	U	1.97	ND	U	1.77	ND	U	1.79	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.366	ND	U	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
	PYRIDINE	NE	NE	ND	UJ	0.366	ND	UJ	0.367	ND	U	0.356	ND	U	0.351	ND	U	0.395	ND	U	0.354	ND	U	0.359	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	0.000194	J	0.00191	ND	U	0.00193	ND	U	0.00174
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	1-CHLOROHEXANE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	2-BUTANONE	25.5	37,100	0.0032	J	0.00484	0.0026	J	0.00574	0.00172	J	0.00428	0.00305	J	0.00495	0.00489	J	0.00568	0.00825		0.00477	ND	U	0.00482	ND	U	0.00434
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	2-HEXANONE	NE	NE	ND	U	0.00484	ND	U	0.00574	ND	U	0.00428	ND	U	0.00495	ND	U	0.00568	ND	U	0.00477	ND	U	0.00482	ND	U	0.00434
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0242	ND	UJ	0.0287	ND	UJ	0.0214	ND	UJ	0.0247	ND	UJ	0.0284	ND	UJ	0.0239	ND	UJ	0.0241	ND	UJ	0.0217
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0242	ND	UJ	0.0287	ND	U	0.0214	ND	U	0.0247	ND	U	0.0284	ND	UJ	0.0239	ND	U	0.0241	ND	U	0.0217
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00484	ND	U	0.00574	ND	U	0.00428	ND	U	0.00495	ND	U	0.00568	ND	U	0.00477	ND	U	0.00482	ND	U	0.00434
	ACETONE	77.1	66,600	0.0147		0.00484	0.0129		0.00574	0.00805	J	0.0214	0.0258		0.0247	0.0207	J	0.0284	ND	U	0.0239	ND	U	0.0241	ND	U	0.0217
	BENZENE	0.0345	15.4	0.000349	J	0.00194	0.000326	J	0.0023	0.000223	J	0.00171	0.000404	J	0.00198	0.00246		0.00227	0.00131	J	0.00191	ND	U	0.00193	ND	U	0.00174
	BROMOBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	BROMOFORM	12.1	6,116	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	BROMOMETHANE	0.0385	16.5	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CHLOROBENZENE	0.984	376	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CHLOROETHANE	107	29,800	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CHLOROFORM	0.00918	5.86	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CHLOROMETHANE	0.879	275	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00194	ND	U	0.0023	ND	UJ	0.00171	ND	UJ	0.00198	ND	UJ	0.00227	ND	U	0.00191	ND	UJ	0.00193	ND	UJ	0.00174
	ETHYLBENZENE	0.26	68.4	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	0.000289	J	0.00198	0.000753	J	0.00227	0.000618	J	0.00191	ND	U	0.00193	ND	U	0.00174
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	M,P-XYLENES	NE	NE	ND	U	0.00388	ND	U	0.00459	ND	U	0.00343	ND	U	0.00396	0.00196	J	0.00455	0.0011	J	0.00382	ND	U	0.00386	ND	U	0.00347
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00484	ND	U	0.00574	ND	U	0.00428	ND	U	0.00495	ND	U	0.00568	ND	U	0.00477	ND	U	0.00482	ND	U	0.00434
	NAPHTHALENE	0.0713	43.0	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	N-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	N-PROPYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	O-XYLENE	3.13	898	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	0.000521	J	0.00227	0.000359	J	0.00191	ND	U	0.00193	ND	U	0.00174

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			LOCATION CODE	DP231			DP231			DP232			DP232			DP232			DP232			DP232			DP233		
			SAMPLE NO	FFOR1293			FFOR1294			FFOR1295			FFOR1296			FFOR1297			FFOR1298			FFOR1299			FFOR1300		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	STYRENE	27.7	7,280	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TOLUENE	25.3	5,270	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	0.0035		0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	VINYL ACETATE	1.52	2,560	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00194	ND	U	0.0023	ND	U	0.00171	ND	U	0.00198	ND	U	0.00227	ND	U	0.00191	ND	U	0.00193	ND	U	0.00174
	XYLENES	3.13	814	ND	U	0.00581	ND	U	0.00689	ND	U	0.00514	0.000426	J	0.00594	0.00248	J	0.00682	0.00146	J	0.00573	ND	U	0.00578	ND	U	0.00521
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.11		0.67	5		0.67	4.13		0.64	4.05		0.64	6.41		0.73	5.37		0.65	4.75		0.65	4.21		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP233			DP233			DP233			DP233			DP233			DP234			DP234			DP234		
			SAMPLE NO	FFOR1301			FFOR1302			FFOR1303			FFOR1304			FFOR1305			FFOR1306			FFOR1307			FFOR1308		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.39	J	4.05	ND	U	4.38	ND	U	4.4	ND	U	4.34	ND	U	4.4	4520		423	27.5		4.28	ND	U	4.53
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.66	ND	U	4.73	ND	U	4.94	ND	U	5.55	ND	U	4.23	1750	J	94	24.3	J	4.65	ND	U	5.51
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,4-DINITROPHENOL	1.26	122	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2-CHLOROPHENOL	2.31	391	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	23.2		3.5	0.0395	J	0.354	ND	U	0.37
	2-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	2-NITROANILINE	NE	NE	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	2-NITROPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.678	ND	U	0.72	ND	U	0.727	ND	U	0.717	ND	U	0.723	ND	U	6.99	ND	U	0.709	ND	U	0.741
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	3-NITROANILINE	NE	NE	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	4-CHLOROANILINE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	4-NITROANILINE	NE	NE	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	4-NITROPHENOL	NE	NE	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	ACENAPHTHENE	338	3,440	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	ACENAPHTHYLENE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	ANTHRACENE	5,410	17,200	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZENAMINE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZO(A)ANTHRACENE	1.57	1.48	0.0276	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BENZO(K)FLUORANTHENE	52.0	14.8	0.0246	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	0.209	J	0.354	ND	U	0.37
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	CARBAZOLE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	CHRYSENE	160	147	0.0329	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	DIBENZOFURAN	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	1.16	J	3.5	ND	U	0.354	ND	U	0.37
	DIETHYL PHTHALATE	193	48,900	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	FLUORANTHENE	2,430	2,290	0.0354	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	FLUORENE	406	2,290	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	ISOPHORONE	3.84	5,120	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	NAPHTHALENE	0.0713	43.0	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	**11.1**		3.5	ND	U	0.354	ND	U	0.37
	NITROBENZENE	0.0125	53.5	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP233			DP233			DP233			DP233			DP233			DP234			DP234			DP234		
			SAMPLE NO	FFOR1301			FFOR1302			FFOR1303			FFOR1304			FFOR1305			FFOR1306			FFOR1307			FFOR1308		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.69	ND	U	1.8	ND	U	1.82	ND	U	1.79	ND	U	1.81	ND	U	17.5	ND	U	1.77	ND	U	1.85
	PHENANTHRENE	571	1,830	0.0173	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	PHENOL	99.5	18,300	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	PYRENE	1,790	1,720	0.0268	J	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
	PYRIDINE	NE	NE	ND	U	0.339	ND	U	0.36	ND	U	0.363	ND	U	0.358	ND	U	0.361	ND	U	3.5	ND	U	0.354	ND	U	0.37
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.14		0.00188	0.00821		0.00193	ND	U	0.00222
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0442		0.00188	0.00302		0.00193	ND	U	0.00222
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	1-CHLOROHEXANE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	2-BUTANONE	25.5	37,100	0.00282	J	0.00452	ND	U	0.00561	ND	U	0.00521	ND	U	0.00466	ND	U	0.00511	ND	U	0.00469	ND	U	0.00482	ND	U	0.00554
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	2-HEXANONE	NE	NE	ND	U	0.00452	ND	U	0.00561	ND	U	0.00521	ND	U	0.00466	ND	U	0.00511	ND	U	0.00469	ND	U	0.00482	ND	U	0.00554
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0226	ND	UJ	0.028	ND	UJ	0.0261	ND	UJ	0.0233	ND	UJ	0.0255	ND	UJ	0.0235	ND	UJ	0.0241	ND	UJ	0.0277
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0226	ND	U	0.028	ND	U	0.0261	ND	U	0.0233	ND	U	0.0255	ND	U	0.0235	ND	U	0.0241	ND	U	0.0277
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00452	ND	U	0.00561	ND	U	0.00521	ND	U	0.00466	ND	U	0.00511	ND	U	0.00469	ND	U	0.00482	ND	U	0.00554
	ACETONE	77.1	66,600	0.01	J	0.0226	ND	U	0.028	ND	U	0.0261	ND	U	0.0233	ND	U	0.0255	ND	U	0.0235	ND	U	0.0241	ND	U	0.0277
	BENZENE	0.0345	15.4	0.00154	J	0.00181	0.000406	J	0.00224	0.000266	J	0.00208	ND	U	0.00187	ND	U	0.00204	0.0021		0.00188	ND	U	0.00193	0.000456	J	0.00222
	BROMOBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	BROMOFORM	12.1	6,116	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	BROMOMETHANE	0.0385	16.5	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CHLOROBENZENE	0.984	376	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CHLOROETHANE	107	29,800	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CHLOROFORM	0.00918	5.86	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CHLOROMETHANE	0.879	275	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00181	ND	UJ	0.00224	ND	UJ	0.00208	ND	UJ	0.00187	ND	UJ	0.00204	ND	UJ	0.00188	ND	UJ	0.00193	ND	UJ	0.00222
	ETHYLBENZENE	0.26	68.4	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.187		0.00188	0.00272		0.00193	0.000362	J	0.00222
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0469		0.00188	0.00161	J	0.00193	ND	U	0.00222
	M,P-XYLENES	NE	NE	ND	U	0.00362	ND	U	0.00449	ND	U	0.00417	ND	U	0.00373	ND	U	0.00409	0.192		0.00375	0.00303	J	0.00385	0.000682	J	0.00443
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00452	ND	U	0.00561	ND	U	0.00521	ND	U	0.00466	ND	U	0.00511	ND	U	0.00469	ND	U	0.00482	ND	U	0.00554
	NAPHTHALENE	0.0713	43.0	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	N-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0158		0.00188	0.00223		0.00193	ND	U	0.00222
	N-PROPYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0863		0.00188	0.00403		0.00193	ND	U	0.00222
	O-XYLENE	3.13	898	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0898		0.00188	0.00185	J	0.00193	0.000199	J	0.00222

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP233			DP233			DP233			DP233			DP233			DP234			DP234			DP234		
			SAMPLE NO	FFOR1301			FFOR1302			FFOR1303			FFOR1304			FFOR1305			FFOR1306			FFOR1307			FFOR1308		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0193		0.00188	0.0021		0.00193	ND	U	0.00222
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0344		0.00188	0.00338		0.00193	ND	U	0.00222
	STYRENE	27.7	7,280	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TOLUENE	25.3	5,270	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	0.0898		0.00188	ND	U	0.00193	ND	U	0.00222
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	VINYL ACETATE	1.52	2,560	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00181	ND	U	0.00224	ND	U	0.00208	ND	U	0.00187	ND	U	0.00204	ND	U	0.00188	ND	U	0.00193	ND	U	0.00222
	XYLENES	3.13	814	ND	U	0.00542	ND	U	0.00673	ND	U	0.00625	ND	U	0.0056	ND	U	0.00613	0.282		0.00563	0.00486	J	0.00578	0.000881	J	0.00665
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.96		0.62	6.54		0.66	5.99		0.67	5.1		0.66	4.18		0.67	2.73		0.64	2.87		0.64	6.93		0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP234			DP234			DP235			DP235			DP235			DP235			DP235			DP235		
			SAMPLE NO	FFOR1309			FFOR1310			FFOR1311			FFOR1312			FFOR1313			FFOR1314			FFOR1315			FFOR1316		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.15	ND	U	4.51	1.49	J	4.16	ND	U	4.29	ND	U	4.47	ND	U	4.44	2.11	J	4.27	ND	U	4.31
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	0.732	J	4.97	ND	U	4.97	ND	U	5.26	ND	U	5.25	ND	U	4.98	ND	U	5.34	ND	U	6.12	ND	U	4.3
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,4-DINITROPHENOL	1.26	122	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2-CHLOROPHENOL	2.31	391	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	2-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.684	ND	U	0.741	ND	U	0.682	ND	U	0.705	ND	U	0.733	ND	U	0.723	ND	U	0.698	ND	U	0.716
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	3-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	4-CHLOROANILINE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	4-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	ACENAPHTHYLENE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	ANTHRACENE	5,410	17,200	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZENAMINE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	CARBAZOLE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	CHRYSENE	160	147	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DIBENZOFURAN	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DIETHYL PHTHALATE	193	48,900	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	FLUORANTHENE	2,430	2,290	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	FLUORENE	406	2,290	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	ISOPHORONE	3.84	5,120	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	NAPHTHALENE	0.0713	43.0	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	NITROBENZENE	0.0125	53.5	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP234			DP234			DP235			DP235			DP235			DP235			DP235			DP235		
		SAMPLE NO		FFOR1309			FFOR1310			FFOR1311			FFOR1312			FFOR1313			FFOR1314			FFOR1315			FFOR1316		
		SAMPLE DATE		4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.71	ND	U	1.85	ND	U	1.7	ND	U	1.76	ND	U	1.83	ND	U	1.81	ND	U	1.75	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	PHENOL	99.5	18,300	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	PYRENE	1,790	1,720	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
	PYRIDINE	NE	NE	ND	U	0.342	ND	U	0.37	ND	U	0.341	ND	U	0.353	ND	U	0.367	ND	U	0.362	ND	U	0.349	ND	U	0.358
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00151	0.000202	J	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	1-CHLOROHEXANE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	2-BUTANONE	25.5	37,100	ND	U	0.00378	0.00489		0.0047	ND	U	0.00575	ND	U	0.00519	ND	U	0.00441	0.00157	J	0.0046	ND	U	0.00519	ND	U	0.00509
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	2-HEXANONE	NE	NE	ND	U	0.00378	ND	U	0.0047	ND	U	0.00575	ND	U	0.00519	ND	U	0.00441	ND	U	0.0046	ND	U	0.00519	ND	U	0.00509
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0189	ND	UJ	0.0235	ND	UJ	0.0288	ND	UJ	0.0259	ND	UJ	0.0221	ND	UJ	0.023	ND	UJ	0.026	ND	UJ	0.0255
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0189	ND	UJ	0.0235	ND	UJ	0.0288	ND	UJ	0.0259	ND	UJ	0.0221	ND	UJ	0.023	ND	UJ	0.026	ND	UJ	0.0255
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00378	ND	U	0.0047	ND	U	0.00575	ND	U	0.00519	ND	U	0.00441	ND	U	0.0046	ND	U	0.00519	ND	U	0.00509
	ACETONE	77.1	66,600	ND	U	0.0189	ND	U	0.0235	0.0316		0.0288	0.0134	J	0.0259	0.00826	J	0.0221	0.00401	J	0.023	0.022	J	0.026	0.0151	J	0.0255
	BENZENE	0.0345	15.4	ND	U	0.00151	0.000249	J	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	0.00137	J	0.00184	0.00106	J	0.00208	0.000822	J	0.00204
	BROMOBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	BROMOFORM	12.1	6,116	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	BROMOMETHANE	0.0385	16.5	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CHLOROBENZENE	0.984	376	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CHLOROETHANE	107	29,800	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CHLOROFORM	0.00918	5.86	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CHLOROMETHANE	0.879	275	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	ETHYLBENZENE	0.26	68.4	ND	U	0.00151	0.000667	J	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	M,P-XYLENES	NE	NE	ND	U	0.00302	0.000421	J	0.00376	ND	U	0.0046	ND	U	0.00415	ND	U	0.00353	ND	U	0.00368	ND	U	0.00415	ND	U	0.00407
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00378	ND	U	0.0047	ND	U	0.00575	ND	U	0.00519	ND	U	0.00441	ND	U	0.0046	ND	U	0.00519	ND	U	0.00509
	NAPHTHALENE	0.0713	43.0	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	N-BUTYLBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	N-PROPYLBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	O-XYLENE	3.13	898	ND	U	0.00151	0.000232	J	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP234			DP234			DP235			DP235			DP235			DP235			DP235			DP235		
		SAMPLE NO		FFOR1309			FFOR1310			FFOR1311			FFOR1312			FFOR1313			FFOR1314			FFOR1315			FFOR1316		
		SAMPLE DATE		4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	STYRENE	27.7	7,280	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TOLUENE	25.3	5,270	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	VINYL ACETATE	1.52	2,560	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00151	ND	U	0.00188	ND	U	0.0023	ND	U	0.00208	ND	U	0.00176	ND	U	0.00184	ND	U	0.00208	ND	U	0.00204
	XYLENES	3.13	814	ND	U	0.00453	0.000653	J	0.00564	ND	U	0.0069	ND	U	0.00623	ND	U	0.00529	ND	U	0.00552	ND	U	0.00623	ND	U	0.00611
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.22		0.63	3.64		0.68	3.07	J-	0.63	2.99		0.65	5.93	J-	0.67	6.85		0.67	5.4		0.65	4.83		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP236			DP236			DP236			DP236			DP236			DP237			DP237			DP237		
			SAMPLE NO	FFOR1317			FFOR1318			FFOR1319			FFOR1320			FFOR1321			FFOR1322			FFOR1323			FFOR1324		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.52	J	4.34	ND	U	4.47	ND	U	4.34	ND	U	4.5	ND	U	4.3	1.79	J	4.29	ND	U	4.37	2.07	J	4.76
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	3.84	ND	U	4.6	ND	U	5.95	ND	U	6.13	ND	U	5.28	ND	U	4.54	ND	U	5.4	ND	U	5.55
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2-CHLOROPHENOL	2.31	391	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	2-NITROPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.714	ND	U	0.733	ND	U	0.709	ND	U	0.736	ND	U	0.704	ND	U	0.701	ND	U	0.709	ND	U	0.782
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	4-CHLOROANILINE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	ACENAPHTHENE	338	3,440	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	ACENAPHTHYLENE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	ANTHRACENE	5,410	17,200	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZENAMINE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.00954	J	0.391
	CARBAZOLE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	CHRYSENE	160	147	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	DIBENZOFURAN	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	DIETHYL PHTHALATE	193	48,900	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.0162	J	0.391
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	FLUORANTHENE	2,430	2,290	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.0144	J	0.391
	FLUORENE	406	2,290	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	ISOPHORONE	3.84	5,120	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	NAPHTHALENE	0.0713	43.0	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	NITROBENZENE	0.0125	53.5	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP236			DP236			DP236			DP236			DP236			DP237			DP237			DP237		
			SAMPLE NO	FFOR1317			FFOR1318			FFOR1319			FFOR1320			FFOR1321			FFOR1322			FFOR1323			FFOR1324		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.0127	J	0.391
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.83	ND	U	1.77	ND	U	1.84	ND	U	1.76	ND	U	1.75	ND	U	1.77	ND	U	1.96
	PHENANTHRENE	571	1,830	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.0137	J	0.391
	PHENOL	99.5	18,300	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
	PYRENE	1,790	1,720	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	0.0218	J	0.391
	PYRIDINE	NE	NE	ND	U	0.357	ND	U	0.366	ND	U	0.355	ND	U	0.368	ND	U	0.352	ND	U	0.351	ND	U	0.355	ND	U	0.391
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	1-CHLOROHEXANE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	2-BUTANONE	25.5	37,100	ND	U	0.00384	0.00125	J	0.00423	0.00274	J	0.00454	0.00451	J	0.0063	0.00519	J	0.00551	0.00333	J	0.00557	0.00157	J	0.00547	0.00348	J	0.00538
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	2-HEXANONE	NE	NE	ND	U	0.00384	ND	U	0.00423	ND	U	0.00454	ND	U	0.0063	ND	U	0.00551	ND	U	0.00557	ND	U	0.00547	ND	U	0.00538
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0192	ND	UJ	0.0212	ND	UJ	0.0227	ND	UJ	0.0315	ND	UJ	0.0275	ND	UJ	0.0278	ND	UJ	0.0274	ND	UJ	0.0269
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0192	ND	UJ	0.0212	ND	UJ	0.0227	ND	UJ	0.0315	ND	UJ	0.0275	ND	UJ	0.0278	ND	UJ	0.0274	ND	UJ	0.0269
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00384	ND	U	0.00423	ND	U	0.00454	ND	U	0.0063	ND	U	0.00551	ND	U	0.00557	ND	U	0.00547	ND	U	0.00538
	ACETONE	77.1	66,600	0.0178	J	0.0192	0.00514	J	0.0212	0.0229		0.0227	0.0238	J	0.0315	0.0227	J	0.0275	0.0212	J	0.0278	0.00776	J	0.0274	0.0134	J	0.0269
	BENZENE	0.0345	15.4	ND	U	0.00154	0.00017	J	0.00169	0.00041	J	0.00182	0.00107	J	0.00252	0.00053	J	0.0022	ND	U	0.00223	ND	U	0.00219	0.00234		0.00215
	BROMOBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	BROMOFORM	12.1	6,116	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	BROMOMETHANE	0.0385	16.5	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CHLOROBENZENE	0.984	376	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CHLOROETHANE	107	29,800	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CHLOROFORM	0.00918	5.86	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CHLOROMETHANE	0.879	275	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	ETHYLBENZENE	0.26	68.4	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	M,P-XYLENES	NE	NE	ND	U	0.00307	ND	U	0.00338	ND	U	0.00363	ND	U	0.00504	ND	U	0.00441	ND	U	0.00446	ND	U	0.00438	ND	U	0.0043
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00384	ND	U	0.00423	ND	U	0.00454	ND	U	0.0063	ND	U	0.00551	ND	U	0.00557	ND	U	0.00547	ND	U	0.00538
	NAPHTHALENE	0.0713	43.0	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	N-BUTYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	N-PROPYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	O-XYLENE	3.13	898	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP236			DP236			DP236			DP236			DP236			DP237			DP237			DP237		
			SAMPLE NO	FFOR1317			FFOR1318			FFOR1319			FFOR1320			FFOR1321			FFOR1322			FFOR1323			FFOR1324		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	STYRENE	27.7	7,280	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TOLUENE	25.3	5,270	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	0.00257		0.00215
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	VINYL ACETATE	1.52	2,560	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00154	ND	U	0.00169	ND	U	0.00182	ND	U	0.00252	ND	U	0.0022	ND	U	0.00223	ND	U	0.00219	ND	U	0.00215
	XYLENES	3.13	814	ND	U	0.00461	ND	U	0.00508	ND	U	0.00545	ND	U	0.00756	ND	U	0.00661	ND	U	0.00668	ND	U	0.00657	ND	U	0.00645
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.59		0.65	3.16		1.35	4.75		0.65	5.83		0.68	5.04		0.64	4.6		0.65	3.45		0.66	7.67		0.71

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP237			DP237			DP237			DP238			DP238			DP238			DP238			DP238		
			SAMPLE NO	FFOR1325			FFOR1326			FFOR1327			FFOR1328			FFOR1329			FFOR1330			FFOR1331			FFOR1332		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.08	J	4.52	ND	U	4.34	ND	U	4.21	1.51	J	4.29	ND	U	4.59	ND	U	4.33	ND	U	4.41	ND	U	4.28
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.25	ND	U	5.4	ND	U	4.91	ND	U	5	ND	U	5.17	ND	U	5.56	ND	U	3.93	ND	U	4.23
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2-CHLOROPHENOL	2.31	391	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	2-NITROPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.745	ND	U	0.711	ND	U	0.683	ND	U	0.702	ND	U	0.752	ND	U	0.726	ND	U	0.718	ND	U	0.697
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	4-CHLOROANILINE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	ACENAPHTHENE	338	3,440	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	ACENAPHTHYLENE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	ANTHRACENE	5,410	17,200	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZENAMINE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	CARBAZOLE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	CHRYSENE	160	147	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DIBENZOFURAN	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DIETHYL PHTHALATE	193	48,900	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	FLUORANTHENE	2,430	2,290	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	FLUORENE	406	2,290	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	ISOPHORONE	3.84	5,120	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	NAPHTHALENE	0.0713	43.0	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	NITROBENZENE	0.0125	53.5	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP237			DP237			DP237			DP238			DP238			DP238			DP238			DP238		
			SAMPLE NO	FFOR1325			FFOR1326			FFOR1327			FFOR1328			FFOR1329			FFOR1330			FFOR1331			FFOR1332		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.78	ND	U	1.71	ND	U	1.76	ND	U	1.88	ND	U	1.82	ND	U	1.8	ND	U	1.74
	PHENANTHRENE	571	1,830	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	PHENOL	99.5	18,300	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	PYRENE	1,790	1,720	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
	PYRIDINE	NE	NE	ND	U	0.373	ND	U	0.355	ND	U	0.341	ND	U	0.351	ND	U	0.376	ND	U	0.363	ND	U	0.359	ND	U	0.349
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	0.00047	J	0.0025	ND	U	0.00162	ND	U	0.00175
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	1-CHLOROHEXANE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	2-BUTANONE	25.5	37,100	0.00707		0.00617	0.00216	J	0.00428	0.00277	J	0.00425	0.00506		0.00497	0.00353	J	0.00549	ND	U	0.00624	0.00366	J	0.00405	0.00447		0.00437
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	2-HEXANONE	NE	NE	ND	U	0.00617	ND	U	0.00428	ND	U	0.00425	ND	U	0.00497	ND	U	0.00549	ND	U	0.00624	ND	U	0.00405	ND	U	0.00437
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0309	ND	UJ	0.0214	ND	UJ	0.0212	ND	UJ	0.0249	ND	UJ	0.0275	ND	UJ	0.0312	ND	UJ	0.0202	ND	UJ	0.0219
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0309	ND	UJ	0.0214	ND	UJ	0.0212	ND	UJ	0.0249	ND	UJ	0.0275	ND	UJ	0.0312	ND	UJ	0.0202	ND	UJ	0.0219
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00617	ND	U	0.00428	ND	U	0.00425	ND	U	0.00497	ND	U	0.00549	ND	U	0.00624	ND	U	0.00405	ND	U	0.00437
	ACETONE	77.1	66,600	0.0317		0.0309	0.00702	J	0.0214	0.0102	J	0.0212	ND	U	0.0249	ND	U	0.0275	ND	U	0.0312	ND	U	0.0202	ND	U	0.0219
	BENZENE	0.0345	15.4	0.00276		0.00247	0.000291	J	0.00171	0.000471	J	0.0017	0.00036	J	0.00199	0.000154	J	0.0022	0.00188	J	0.0025	0.000285	J	0.00162	0.000391	J	0.00175
	BROMOBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	BROMOFORM	12.1	6,116	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	BROMOMETHANE	0.0385	16.5	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CHLOROBENZENE	0.984	376	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CHLOROETHANE	107	29,800	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CHLOROFORM	0.00918	5.86	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CHLOROMETHANE	0.879	275	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	ETHYLBENZENE	0.26	68.4	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	0.000476	J	0.0025	0.000346	J	0.00162	ND	U	0.00175
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	M,P-XYLENES	NE	NE	ND	U	0.00494	ND	U	0.00343	ND	U	0.0034	0.000459	J	0.00398	ND	U	0.00439	0.00131	J	0.00499	ND	U	0.00324	ND	U	0.0035
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00617	ND	U	0.00428	ND	U	0.00425	ND	U	0.00497	ND	U	0.00549	ND	U	0.00624	ND	U	0.00405	ND	U	0.00437
	NAPHTHALENE	0.0713	43.0	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	N-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	N-PROPYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	O-XYLENE	3.13	898	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	0.000439	J	0.0025	ND	U	0.00162	ND	U	0.00175

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP237			DP237			DP237			DP238			DP238			DP238			DP238			DP238		
			SAMPLE NO	FFOR1325			FFOR1326			FFOR1327			FFOR1328			FFOR1329			FFOR1330			FFOR1331			FFOR1332		
			SAMPLE DATE	4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11			4-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	STYRENE	27.7	7,280	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TOLUENE	25.3	5,270	0.00354		0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	0.00274		0.0025	ND	U	0.00162	ND	U	0.00175
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	VINYL ACETATE	1.52	2,560	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00247	ND	U	0.00171	ND	U	0.0017	ND	U	0.00199	ND	U	0.0022	ND	U	0.0025	ND	U	0.00162	ND	U	0.00175
	XYLENES	3.13	814	ND	U	0.00741	ND	U	0.00514	ND	U	0.0051	0.000459	J	0.00597	ND	U	0.00659	0.00175	J	0.00749	ND	U	0.00486	ND	U	0.00525
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.67		0.67	5.9		0.65	3.89		0.63	3.8		0.65	5.14		0.69	6.97		0.66	7.08		0.66	4.17		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP239			DP239			DP239			DP239			DP239			DP239			DP240			DP240		
		SAMPLE NO		FFOR1333			FFOR1334			FFOR1335			FFOR1336			FFOR1337			FFOR1338			FFOR1339			FFOR1340		
		SAMPLE DATE		3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.36	ND	U	4.36	ND	U	4.36	ND	U	4.43	ND	U	4.31	ND	U	4.31	ND	U	4.34	ND	U	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.28	ND	U	5.99	ND	U	7.03	ND	U	7.03	ND	U	6.9	ND	U	5.71	ND	U	4.65	ND	U	5.66
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	7.19	ND	U	0.72	ND	U	0.715	ND	U	0.731	ND	U	0.711	ND	U	0.711	ND	U	0.723	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	CHRYSENE	160	147	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	FLUORENE	406	2,290	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP239			DP239			DP239			DP239			DP239			DP239			DP240			DP240		
			SAMPLE NO	FFOR1333			FFOR1334			FFOR1335			FFOR1336			FFOR1337			FFOR1338			FFOR1339			FFOR1340		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	18	ND	U	1.8	ND	U	1.79	ND	U	1.83	ND	U	1.78	ND	U	1.78	ND	U	1.81	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	3.6	ND	U	0.36	ND	U	0.358	ND	U	0.365	ND	U	0.355	ND	U	0.356	ND	U	0.361	ND	U	0.359
	PYRIDINE	NE	NE	ND	UJ	3.6	ND	UJ	0.36	ND	U	0.358	ND	UJ	0.365	ND	UJ	0.355	ND	UJ	0.356	ND	UJ	0.361	ND	UJ	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	UJ	0.00327	ND	UJ	0.00225	0.000382	J	0.00228	0.00019	J	0.00212
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	0.000289	J	0.00327	0.000205	J	0.00225	0.000152	J	0.00228	ND	U	0.00212
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	1-CHLOROHEXANE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	UJ	0.00327	ND	UJ	0.00225	ND	UJ	0.00228	ND	UJ	0.00212
	2-BUTANONE	25.5	37,100	0.00103	J	0.00797	0.00454	J	0.00698	0.00369	J	0.00598	0.00601		0.00571	0.00738	J	0.00818	0.00482	J	0.00562	0.00346	J	0.00571	0.00301	J	0.0053
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	2-HEXANONE	NE	NE	ND	U	0.00797	ND	U	0.00698	ND	U	0.00598	ND	U	0.00571	ND	U	0.00818	ND	U	0.00562	ND	U	0.00571	ND	U	0.0053
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0398	ND	UJ	0.0349	ND	U	0.0299	ND	UJ	0.0285	ND	UJ	0.0409	ND	UJ	0.0281	ND	UJ	0.0285	ND	UJ	0.0265
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0398	ND	UJ	0.0349	ND	UJ	0.0299	ND	UJ	0.0285	ND	U	0.0409	ND	U	0.0281	ND	U	0.0285	ND	U	0.0265
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00797	ND	U	0.00698	ND	U	0.00598	ND	U	0.00571	ND	U	0.00818	ND	U	0.00562	ND	U	0.00571	ND	U	0.0053
	ACETONE	77.1	66,600	0.0229		0.00797	0.0301		0.00698	0.027		0.00598	0.0317		0.00571	0.0423	J	0.00818	0.0236	J	0.00562	0.0174	J	0.00571	0.0208	J	0.0053
	BENZENE	0.0345	15.4	ND	U	0.00319	0.00035	J	0.00279	0.00109	J	0.00239	0.00122	J	0.00228	0.00113	J	0.00327	0.000857	J	0.00225	0.000225	J	0.00228	0.000321	J	0.00212
	BROMOBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	BROMOFORM	12.1	6,116	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	BROMOMETHANE	0.0385	16.5	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CHLOROBENZENE	0.984	376	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CHLOROETHANE	107	29,800	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CHLOROFORM	0.00918	5.86	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CHLOROMETHANE	0.879	275	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	ETHYLBENZENE	0.26	68.4	ND	U	0.00319	ND	U	0.00279	0.000336	J	0.00239	ND	U	0.00228	0.000649	J	0.00327	0.000485	J	0.00225	ND	U	0.00228	ND	U	0.00212
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	UJ	0.00327	ND	UJ	0.00225	ND	UJ	0.00228	ND	UJ	0.00212
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	M,P-XYLENES	NE	NE	ND	U	0.00637	ND	U	0.00558	ND	U	0.00479	ND	U	0.00457	0.000671	J	0.00655	ND	U	0.0045	ND	U	0.00457	ND	U	0.00424
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00797	ND	U	0.00698	ND	UJ	0.00598	ND	U	0.00571	ND	U	0.00818	ND	U	0.00562	ND	U	0.00571	ND	U	0.0053
	NAPHTHALENE	0.0713	43.0	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	N-BUTYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	N-PROPYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	O-XYLENE	3.13	898	ND	U	0.00319	ND	U	0.00279	0.00289		0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212

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			LOCATION CODE	DP239			DP239			DP239			DP239			DP239			DP239			DP240			DP240		
			SAMPLE NO	FFOR1333			FFOR1334			FFOR1335			FFOR1336			FFOR1337			FFOR1338			FFOR1339			FFOR1340		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	STYRENE	27.7	7,280	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TOLUENE	25.3	5,270	ND	U	0.00319	ND	U	0.00279	0.00191	J	0.00239	0.00183	J	0.00228	0.00214	J	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	VINYL ACETATE	1.52	2,560	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00319	ND	U	0.00279	ND	U	0.00239	ND	U	0.00228	ND	U	0.00327	ND	U	0.00225	ND	U	0.00228	ND	U	0.00212
	XYLENES	3.13	814	ND	U	0.00956	ND	U	0.00837	ND	U	0.00718	ND	U	0.00685	ND	U	0.00982	ND	U	0.00675	ND	U	0.00685	ND	U	0.00636
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.2		0.65	4.12		0.65	6.82	J	0.65	6.89		0.66	4.5		0.65	4.45		0.65	4.9		0.66	4.81		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP240			DP240			DP240			DP240			DP241			DP241			DP241			DP241		
			SAMPLE NO	FFOR1341			FFOR1342			FFOR1343			FFOR1344			FFOR1345			FFOR1346			FFOR1347			FFOR1348		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	ND	U	4.29	ND	U	4.49	ND	U	4.26	1.56	J	4.32	ND	U	4.59	ND	U	4.34	ND	U	4.43
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.35	ND	U	5.52	ND	U	6.2	ND	U	6.15	ND	U	5.39	ND	U	6.28	ND	U	5.78	ND	U	6.22
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.706	ND	U	0.708	ND	UJ	0.747	ND	UJ	0.702	ND	UJ	0.708	ND	UJ	0.748	ND	UJ	0.72	ND	UJ	0.723
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	UJ	0.373	ND	UJ	0.351	ND	UJ	0.354	ND	UJ	0.374	ND	UJ	0.36	ND	UJ	0.362
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	UJ	0.373	ND	UJ	0.351	ND	UJ	0.354	ND	UJ	0.374	ND	UJ	0.36	ND	UJ	0.362
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP240			DP240			DP240			DP240			DP241			DP241			DP241			DP241		
			SAMPLE NO	FFOR1341			FFOR1342			FFOR1343			FFOR1344			FFOR1345			FFOR1346			FFOR1347			FFOR1348		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.76	ND	U	1.77	ND	U	1.87	ND	U	1.8	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
	PYRIDINE	NE	NE	ND	UJ	0.353	ND	UJ	0.354	ND	U	0.373	ND	U	0.351	ND	U	0.354	ND	U	0.374	ND	U	0.36	ND	U	0.362
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	UJ	0.00231	ND	UJ	0.00236	ND	UJ	0.00254	ND	UJ	0.00272	ND	U	0.00208	ND	U	0.00267	ND	UJ	0.00244	ND	U	0.00266
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	0.000204	J	0.00236	0.000698	J	0.00254	0.000205	J	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	0.000456	J	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	1-CHLOROHEXANE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00231	ND	UJ	0.00236	ND	UJ	0.00254	ND	UJ	0.00272	ND	UJ	0.00208	ND	U	0.00267	ND	UJ	0.00244	ND	U	0.00266
	2-BUTANONE	25.5	37,100	ND	U	0.00579	0.00324	J	0.00591	0.00548	J	0.00636	0.00686		0.00681	0.00282	J	0.0052	0.00322	J	0.00666	0.00214	J	0.00609	0.00446	J	0.00665
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	2-HEXANONE	NE	NE	ND	U	0.00579	ND	U	0.00591	ND	U	0.00636	ND	U	0.00681	ND	U	0.0052	ND	U	0.00666	ND	U	0.00609	ND	U	0.00665
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0289	ND	UJ	0.0295	ND	UJ	0.0318	ND	UJ	0.0341	ND	UJ	0.026	ND	UJ	0.0333	ND	UJ	0.0304	ND	U	0.0332
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0289	ND	U	0.0295	ND	U	0.0318	ND	U	0.0341	ND	U	0.026	ND	UJ	0.0333	ND	U	0.0304	ND	UJ	0.0332
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00579	ND	U	0.00591	ND	U	0.00636	ND	U	0.00681	ND	U	0.0052	ND	U	0.00666	ND	U	0.00609	ND	U	0.00665
	ACETONE	77.1	66,600	0.0253	J	0.00579	0.0162	J	0.00591	0.0244	J	0.00636	0.0369	J	0.00681	0.0169	J	0.0052	ND	U	0.00666	0.0104	J	0.00609	0.0315		0.00665
	BENZENE	0.0345	15.4	0.000321	J	0.00231	0.000638	J	0.00236	0.00346		0.00254	0.00088	J	0.00272	0.000155	J	0.00208	0.000157	J	0.00267	0.000211	J	0.00244	0.00202	J	0.00266
	BROMOBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	BROMOFORM	12.1	6,116	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	BROMOMETHANE	0.0385	16.5	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	UJ	0.00267	ND	U	0.00244	ND	U	0.00266
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CHLOROBENZENE	0.984	376	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CHLOROETHANE	107	29,800	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	UJ	0.00267	ND	U	0.00244	ND	U	0.00266
	CHLOROFORM	0.00918	5.86	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CHLOROMETHANE	0.879	275	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	ETHYLBENZENE	0.26	68.4	ND	U	0.00231	0.000339	J	0.00236	0.000725	J	0.00254	0.000362	J	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	0.000481	J	0.00266
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.00231	ND	UJ	0.00236	ND	UJ	0.00254	ND	UJ	0.00272	ND	U	0.00208	ND	U	0.00267	ND	UJ	0.00244	ND	U	0.00266
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	M,P-XYLENES	NE	NE	ND	U	0.00463	ND	U	0.00473	0.00206	J	0.00509	0.000523	J	0.00545	ND	U	0.00416	ND	U	0.00533	ND	U	0.00487	0.00268	J	0.00532
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00579	ND	U	0.00591	ND	U	0.00636	ND	U	0.00681	ND	U	0.0052	ND	U	0.00666	ND	U	0.00609	ND	UJ	0.00665
	NAPHTHALENE	0.0713	43.0	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	N-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	N-PROPYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	O-XYLENE	3.13	898	ND	U	0.00231	ND	U	0.00236	0.000478	J	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP240			DP240			DP240			DP240			DP241			DP241			DP241			DP241		
			SAMPLE NO	FFOR1341			FFOR1342			FFOR1343			FFOR1344			FFOR1345			FFOR1346			FFOR1347			FFOR1348		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	STYRENE	27.7	7,280	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TOLUENE	25.3	5,270	ND	U	0.00231	ND	U	0.00236	0.00384		0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	0.00321		0.00266
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	VINYL ACETATE	1.52	2,560	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	UJ	0.00267	ND	U	0.00244	ND	U	0.00266
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00231	ND	U	0.00236	ND	U	0.00254	ND	U	0.00272	ND	U	0.00208	ND	U	0.00267	ND	U	0.00244	ND	U	0.00266
	XYLENES	3.13	814	ND	U	0.00694	ND	U	0.00709	0.00252	J	0.00763	0.000691	J	0.00817	ND	U	0.00624	ND	U	0.008	ND	U	0.00731	ND	U	0.00798
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.99		0.64	4.92		0.64	6.69		0.69	8.15		0.64	3.8	J	0.65	5.28	J	0.69	3	J	0.65	6.43		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP241			DP241			DP242			DP242			DP242			DP242			DP242			DP243		
			SAMPLE NO	FFOR1349			FFOR1350			FFOR1351			FFOR1352			FFOR1353			FFOR1354			FFOR1355			FFOR1356		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.44	J	4.38	ND	U	4.22	1.66	J	4.22	ND	U	4.31	ND	U	4.46	ND	U	4.24	ND	U	4.23	2.12	J	4.3
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.22	ND	U	4.72	ND	U	4.92	ND	U	6.01	ND	U	4.57	ND	U	5.93	ND	U	5.35	ND	U	5.73
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	UJ	0.722	ND	UJ	0.688	ND	UJ	0.696	ND	UJ	0.724	ND	UJ	0.723	ND	UJ	0.699	ND	UJ	0.694	ND	U	0.722
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	UJ	0.361	ND	UJ	0.344	ND	UJ	0.348	ND	UJ	0.362	ND	UJ	0.362	ND	UJ	0.35	ND	UJ	0.347	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BENZENAMINE	NE	NE	ND	UJ	0.361	ND	UJ	0.344	ND	UJ	0.348	ND	UJ	0.362	ND	UJ	0.362	ND	UJ	0.35	ND	UJ	0.347	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	0.0241	J	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP241			DP241			DP242			DP242			DP242			DP242			DP242			DP243		
			SAMPLE NO	FFOR1349			FFOR1350			FFOR1351			FFOR1352			FFOR1353			FFOR1354			FFOR1355			FFOR1356		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.72	ND	U	1.74	ND	U	1.81	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.344	ND	U	0.348	ND	U	0.362	ND	U	0.362	ND	U	0.35	ND	U	0.347	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	UJ	0.0028	ND	UJ	0.00217	ND	U	0.00165	ND	U	0.00216	ND	UJ	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000434	J	0.0028	0.000306	J	0.00217	ND	U	0.00165	ND	U	0.00216	0.00127	J	0.00346	0.00099	J	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000321	J	0.0028	0.000171	J	0.00217	ND	U	0.00165	ND	U	0.00216	0.00083	J	0.00346	0.000692	J	0.00211	ND	U	0.00203	ND	U	0.00181
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	1-CHLOROHEXANE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.0028	ND	UJ	0.00217	ND	UJ	0.00165	ND	U	0.00216	ND	UJ	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	2-BUTANONE	25.5	37,100	0.00576	J	0.00701	0.00656		0.00542	0.00221	J	0.00412	0.00318	J	0.00541	0.0078	J	0.00865	0.00988	J	0.00526	0.00293	J	0.00507	0.00413	J	0.00452
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	2-HEXANONE	NE	NE	ND	U	0.00701	ND	U	0.00542	ND	U	0.00412	ND	U	0.00541	ND	U	0.00865	ND	U	0.00526	ND	U	0.00507	ND	U	0.00452
	2-PROPENAL	0.000146	0.404	ND	UJ	0.035	ND	UJ	0.0271	ND	UJ	0.0206	ND	UJ	0.027	ND	UJ	0.0432	ND	UJ	0.0263	ND	U	0.0253	ND	UJ	0.0226
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.035	ND	U	0.0271	ND	U	0.0206	ND	UJ	0.027	ND	U	0.0432	ND	UJ	0.0263	ND	UJ	0.0253	ND	UJ	0.0226
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00701	ND	U	0.00542	ND	U	0.00412	ND	U	0.00541	ND	U	0.00865	ND	U	0.00526	ND	U	0.00507	ND	U	0.00452
	ACETONE	77.1	66,600	0.0429	J	0.00701	0.0378	J	0.00542	0.0145	J	0.00412	ND	U	0.00541	0.0313	J	0.00865	ND	U	0.00526	0.0212		0.00507	0.0227		0.00452
	BENZENE	0.0345	15.4	0.00225	J	0.0028	0.00131	J	0.00217	0.000141	J	0.00165	0.000149	J	0.00216	0.0047		0.00346	0.00358		0.00211	0.000286	J	0.00203	0.000336	J	0.00181
	BROMOBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	BROMOFORM	12.1	6,116	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	BROMOMETHANE	0.0385	16.5	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	UJ	0.00181
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	UJ	0.00216	ND	U	0.00346	ND	UJ	0.00211	ND	U	0.00203	ND	U	0.00181
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	CHLOROBENZENE	0.984	376	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	CHLOROETHANE	107	29,800	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	UJ	0.00216	ND	U	0.00346	ND	UJ	0.00211	ND	U	0.00203	ND	U	0.00181
	CHLOROFORM	0.00918	5.86	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	CHLOROMETHANE	0.879	275	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	ETHYLBENZENE	0.26	68.4	0.000609	J	0.0028	0.000539	J	0.00217	ND	U	0.00165	ND	U	0.00216	0.0015	J	0.00346	0.000756	J	0.00211	ND	U	0.00203	ND	U	0.00181
	HEXACHLOROBUTADIENE	0.257	61.1	ND	UJ	0.0028	ND	UJ	0.00217	ND	U	0.00165	ND	U	0.00216	ND	UJ	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	M,P-XYLENES	NE	NE	0.00121	J	0.00561	0.000812	J	0.00433	ND	U	0.00329	ND	U	0.00433	0.00358	J	0.00692	0.00217	J	0.00421	ND	U	0.00405	ND	U	0.00362
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00701	ND	U	0.00542	ND	U	0.00412	ND	U	0.00541	ND	U	0.00865	ND	U	0.00526	ND	UJ	0.00507	ND	U	0.00452
	NAPHTHALENE	0.0713	43.0	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	0.000307	J	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	N-BUTYLBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	N-PROPYLBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	O-XYLENE	3.13	898	0.000314	J	0.0028	0.000197	J	0.00217	ND	U	0.00165	ND	U	0.00216	0.0009	J	0.00346	0.00257		0.00211	ND	U	0.00203	ND	U	0.00181

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP241			DP241			DP242			DP242			DP242			DP242			DP242			DP243		
		SAMPLE NO		FFOR1349			FFOR1350			FFOR1351			FFOR1352			FFOR1353			FFOR1354			FFOR1355			FFOR1356		
		SAMPLE DATE		3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	STYRENE	27.7	7,280	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TOLUENE	25.3	5,270	0.00286		0.0028	0.00205	J	0.00217	ND	U	0.00165	ND	U	0.00216	0.00689		0.00346	0.0044		0.00211	ND	U	0.00203	ND	U	0.00181
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	VINYL ACETATE	1.52	2,560	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	UJ	0.00216	ND	U	0.00346	ND	UJ	0.00211	ND	U	0.00203	ND	U	0.00181
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0028	ND	U	0.00217	ND	U	0.00165	ND	U	0.00216	ND	U	0.00346	ND	U	0.00211	ND	U	0.00203	ND	U	0.00181
	XYLENES	3.13	814	0.00153	J	0.00841	0.00101	J	0.0065	ND	U	0.00494	ND	U	0.00649	0.00448	J	0.0104	0.00474	J	0.00632	ND	U	0.00608	ND	U	0.00542
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.25		0.66	3.73		0.64	4.17		0.64	3.23		0.66	6.16		0.67	5.38		0.64	4.59		0.63	4.41		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP243			DP243			DP243			DP243			DP243			DP244			DP244			DP244		
			SAMPLE NO	FFOR1357			FFOR1358			FFOR1359			FFOR1360			FFOR1361			FFOR1362			FFOR1363			FFOR1364		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.48	J	4.42	ND	U	4.37	1.5	J	4.61	ND	U	4.87	ND	U	4.32	4.26	J	4.36	1.62	J	4.45	ND	U	4.43
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.38	ND	U	4.05	ND	U	4.49	ND	U	5.05	ND	U	4.19	ND	U	4.63	ND	U	4.86	ND	U	5.06
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.366	0.0224	J	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.731	ND	U	0.723	ND	U	0.761	ND	U	0.811	ND	U	0.712	ND	U	0.724	ND	U	0.734	ND	U	0.732
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.366	ND	U	0.362	0.031	J	0.381	0.0297	J	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP243			DP243			DP243			DP243			DP243			DP244			DP244			DP244		
			SAMPLE NO	FFOR1357			FFOR1358			FFOR1359			FFOR1360			FFOR1361			FFOR1362			FFOR1363			FFOR1364		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.81	ND	U	1.9	ND	U	2.03	ND	U	1.78	ND	U	1.81	ND	U	1.83	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.366	ND	U	0.362	ND	U	0.381	ND	U	0.406	ND	U	0.356	ND	U	0.362	ND	U	0.367	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00178	0.000771	J	0.00201	0.000272	J	0.00178	0.00237		0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	0.001	J	0.00173
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00178	0.000429	J	0.00201	0.000178	J	0.00178	0.00146	J	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	0.000662	J	0.00173
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	1-CHLOROHEXANE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	2-BUTANONE	25.5	37,100	0.0064		0.00446	0.00338	J	0.00503	ND	U	0.00446	0.00567		0.00552	0.00324	J	0.00427	ND	U	0.00516	ND	U	0.00474	0.00277	J	0.00432
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	2-HEXANONE	NE	NE	ND	U	0.00446	ND	U	0.00503	ND	U	0.00446	ND	U	0.00552	ND	U	0.00427	ND	U	0.00516	ND	U	0.00474	ND	U	0.00432
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0223	ND	UJ	0.0252	ND	UJ	0.0223	ND	UJ	0.0276	ND	UJ	0.0213	ND	UJ	0.0258	ND	UJ	0.0237	ND	UJ	0.0216
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0223	ND	UJ	0.0252	ND	UJ	0.0223	ND	UJ	0.0276	ND	U	0.0213	ND	UJ	0.0258	ND	UJ	0.0237	ND	UJ	0.0216
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00446	ND	U	0.00503	ND	U	0.00446	ND	U	0.00552	ND	U	0.00427	ND	U	0.00516	ND	U	0.00474	ND	U	0.00432
	ACETONE	77.1	66,600	0.0386		0.00446	0.0129	J	0.00503	0.00659	J	0.00446	0.0159		0.00552	0.0107	J	0.0213	0.0165		0.00516	0.00467	J	0.00474	0.0104		0.00432
	BENZENE	0.0345	15.4	0.000112	J	0.00178	0.0018	J	0.00201	0.000743	J	0.00178	0.00567		0.00221	0.000387	J	0.00171	0.000218	J	0.00206	ND	U	0.0019	0.00259		0.00173
	BROMOBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	BROMOFORM	12.1	6,116	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00178	ND	UJ	0.00201	ND	UJ	0.00178	ND	UJ	0.00221	ND	U	0.00171	ND	UJ	0.00206	ND	UJ	0.0019	ND	UJ	0.00173
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CHLOROBENZENE	0.984	376	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CHLOROETHANE	107	29,800	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CHLOROFORM	0.00918	5.86	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CHLOROMETHANE	0.879	275	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	ETHYLBENZENE	0.26	68.4	ND	U	0.00178	0.000753	J	0.00201	0.000429	J	0.00178	0.00118	J	0.00221	0.000304	J	0.00171	ND	U	0.00206	ND	U	0.0019	0.000724	J	0.00173
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	M,P-XYLENES	NE	NE	ND	U	0.00357	0.00174	J	0.00403	0.000649	J	0.00357	0.00597		0.00441	ND	U	0.00341	ND	U	0.00412	ND	U	0.00379	0.00277	J	0.00345
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00446	ND	U	0.00503	ND	U	0.00446	ND	U	0.00552	ND	U	0.00427	ND	U	0.00516	ND	U	0.00474	ND	U	0.00432
	NAPHTHALENE	0.0713	43.0	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	N-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	N-PROPYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	O-XYLENE	3.13	898	ND	U	0.00178	0.000384	J	0.00201	0.000138	J	0.00178	0.00129	J	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	0.000684	J	0.00173

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP243			DP243			DP243			DP243			DP243			DP244			DP244			DP244		
			SAMPLE NO	FFOR1357			FFOR1358			FFOR1359			FFOR1360			FFOR1361			FFOR1362			FFOR1363			FFOR1364		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	STYRENE	27.7	7,280	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TOLUENE	25.3	5,270	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	0.00721		0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	VINYL ACETATE	1.52	2,560	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00178	ND	U	0.00201	ND	U	0.00178	ND	U	0.00221	ND	U	0.00171	ND	U	0.00206	ND	U	0.0019	ND	U	0.00173
	XYLENES	3.13	814	ND	U	0.00535	0.00212	J	0.00604	0.000788	J	0.00535	0.00726		0.00662	ND	U	0.00512	ND	U	0.00619	ND	U	0.00569	0.00345	J	0.00518
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.14		0.66	4.47		0.65	5.01		0.69	7.43		0.74	3.98		0.64	3.91		0.66	3.89		0.67	6.02		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP244			DP244			DP245			DP245			DP245			DP245			DP245			DP245		
			SAMPLE NO	FFOR1365			FFOR1366			FFOR1367			FFOR1368			FFOR1369			FFOR1370			FFOR1371			FFOR1372		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.59	J	4.42	1.51	J	4.29	2.57	J	4.44	1.79	J	4.42	2.06	J	4.46	ND	U	4.31	ND	U	4.37	ND	U	4.3
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.25	ND	U	4.36	ND	U	6.32	ND	U	5.99	ND	U	5.08	ND	U	5.52	ND	U	5.75	ND	U	5.24
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.84	ND	U	1.77	ND	UJ	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.734	ND	U	0.707	ND	U	0.744	ND	U	0.726	ND	U	0.737	ND	U	0.721	ND	U	0.721	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.367	0.0273	J	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP244			DP244			DP245			DP245			DP245			DP245			DP245			DP245		
			SAMPLE NO	FFOR1365			FFOR1366			FFOR1367			FFOR1368			FFOR1369			FFOR1370			FFOR1371			FFOR1372		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.84	ND	U	1.77	ND	U	1.86	ND	U	1.82	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.367	ND	U	0.354	ND	U	0.372	ND	U	0.363	ND	U	0.368	ND	U	0.36	ND	U	0.361	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000413	J	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	0.00113	J	0.00217	0.000294	J	0.00207	ND	U	0.00232	0.000242	J	0.00202
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	0.000633	J	0.00217	0.000144	J	0.00207	ND	U	0.00232	ND	U	0.00202
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	1-CHLOROHEXANE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	2-BUTANONE	25.5	37,100	ND	U	0.00466	0.00513		0.00482	ND	U	0.00563	0.00173	J	0.00369	0.00433	J	0.00543	0.0044	J	0.00517	0.00371	J	0.00581	0.00405	J	0.00506
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	2-HEXANONE	NE	NE	ND	U	0.00466	ND	U	0.00482	ND	U	0.00563	ND	U	0.00369	ND	U	0.00543	ND	U	0.00517	ND	U	0.00581	ND	U	0.00506
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0233	ND	UJ	0.0241	ND	UJ	0.0281	ND	UJ	0.0184	ND	UJ	0.0271	ND	UJ	0.0259	ND	UJ	0.0291	ND	UJ	0.0253
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0233	ND	UJ	0.0241	ND	U	0.0281	ND	U	0.0184	ND	U	0.0271	ND	U	0.0259	ND	U	0.0291	ND	U	0.0253
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00466	ND	U	0.00482	ND	U	0.00563	ND	U	0.00369	ND	U	0.00543	ND	U	0.00517	ND	U	0.00581	ND	U	0.00506
	ACETONE	77.1	66,600	0.00935		0.00466	0.0197	J	0.0241	ND	U	0.00563	0.0102		0.00369	0.0212		0.00543	0.0174		0.00517	0.0139		0.00581	0.0158		0.00506
	BENZENE	0.0345	15.4	0.00112	J	0.00186	0.000542	J	0.00193	0.00017	J	0.00225	0.0002	J	0.00147	0.00278		0.00217	0.000725	J	0.00207	0.000901	J	0.00232	0.000639	J	0.00202
	BROMOBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	BROMOFORM	12.1	6,116	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00186	ND	UJ	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CHLOROBENZENE	0.984	376	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CHLOROETHANE	107	29,800	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CHLOROFORM	0.00918	5.86	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CHLOROMETHANE	0.879	275	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	ETHYLBENZENE	0.26	68.4	0.00058	J	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	0.000837	J	0.00217	0.000501	J	0.00207	0.00054	J	0.00232	0.000491	J	0.00202
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	M,P-XYLENES	NE	NE	0.000892	J	0.00373	ND	U	0.00385	ND	U	0.0045	ND	U	0.00295	0.0027	J	0.00434	0.000636	J	0.00414	ND	U	0.00465	0.000548	J	0.00405
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00466	ND	U	0.00482	ND	U	0.00563	ND	U	0.00369	ND	U	0.00543	ND	U	0.00517	ND	U	0.00581	ND	U	0.00506
	NAPHTHALENE	0.0713	43.0	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	0.000212	J	0.00202
	N-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	N-PROPYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	O-XYLENE	3.13	898	0.000245	J	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	0.000663	J	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP244			DP244			DP245			DP245			DP245			DP245			DP245			DP245			DP245		
		SAMPLE NO		FFOR1365			FFOR1366			FFOR1367			FFOR1368			FFOR1369			FFOR1370			FFOR1371			FFOR1372		
		SAMPLE DATE		3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	STYRENE	27.7	7,280	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TOLUENE	25.3	5,270	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	VINYL ACETATE	1.52	2,560	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00186	ND	U	0.00193	ND	U	0.00225	ND	U	0.00147	ND	U	0.00217	ND	U	0.00207	ND	U	0.00232	ND	U	0.00202
	XYLENES	3.13	814	ND	U	0.00559	ND	U	0.00578	ND	U	0.00675	ND	U	0.00442	0.00336	J	0.00651	0.000803	J	0.0062	ND	U	0.00697	0.000548	J	0.00607
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.43		0.66	3.79		0.64	3.39	J-	0.68	3.62		0.66	5.45		0.66	5.63		0.66	4.1		0.66	4.06		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP246			DP246			DP246			DP246			DP246			DP247			DP247			DP247		
			SAMPLE NO	FFOR1373			FFOR1374			FFOR1375			FFOR1376			FFOR1377			FFOR1378			FFOR1379			FFOR1380		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	58.4		4.32	3.44	J	4.37	2.2	J	4.32	ND	U	4.46	ND	U	4.22	2.11	J	4.35	ND	U	4.42	1.38	J	4.24
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.8	ND	U	4.62	ND	U	4.87	ND	U	4.52	ND	U	5.32	ND	U	5.24	ND	U	4.69	ND	U	4.94
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.713	ND	U	0.727	ND	U	0.71	ND	U	0.739	ND	U	0.706	ND	U	0.718	ND	U	0.739	ND	U	0.705
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	FLUORANTHENE	2,430	2,290	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP246			DP246			DP246			DP246			DP246			DP247			DP247			DP247		
			SAMPLE NO	FFOR1373			FFOR1374			FFOR1375			FFOR1376			FFOR1377			FFOR1378			FFOR1379			FFOR1380		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.82	ND	U	1.77	ND	U	1.85	ND	U	1.77	ND	U	1.8	ND	U	1.85	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.364	ND	U	0.355	ND	U	0.369	ND	U	0.353	ND	U	0.359	ND	U	0.37	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	0.000823	J	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	0.000764	J	0.00223
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	0.000456	J	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	1-CHLOROHEXANE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	2-BUTANONE	25.5	37,100	0.00264	J	0.00494	0.00184	J	0.00491	0.00306	J	0.00446	0.00478	J	0.00588	0.00536		0.00535	0.00206	J	0.00492	ND	U	0.00434	ND	U	0.00557
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	2-HEXANONE	NE	NE	ND	U	0.00494	ND	U	0.00491	ND	U	0.00446	ND	U	0.00588	ND	U	0.00535	ND	U	0.00492	ND	U	0.00434	ND	U	0.00557
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0247	ND	UJ	0.0245	ND	UJ	0.0223	ND	UJ	0.0294	ND	UJ	0.0267	ND	UJ	0.0246	ND	UJ	0.0217	ND	UJ	0.0279
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0247	ND	U	0.0245	ND	U	0.0223	ND	U	0.0294	ND	U	0.0267	ND	U	0.0246	ND	UJ	0.0217	ND	UJ	0.0279
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00494	ND	U	0.00491	ND	U	0.00446	ND	U	0.00588	ND	U	0.00535	ND	U	0.00492	ND	U	0.00434	ND	U	0.00557
	ACETONE	77.1	66,600	0.0186		0.00494	0.01		0.00491	0.0124		0.00446	0.0135		0.00588	0.0292		0.00535	0.012		0.00492	0.00934		0.00434	0.0238		0.00557
	BENZENE	0.0345	15.4	0.000231	J	0.00197	0.00023	J	0.00196	0.000338	J	0.00178	0.00264		0.00235	0.00117	J	0.00214	0.000221	J	0.00197	ND	U	0.00173	0.00188	J	0.00223
	BROMOBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	BROMOFORM	12.1	6,116	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	BROMOMETHANE	0.0385	16.5	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	UJ	0.00173	ND	UJ	0.00223
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CHLOROBENZENE	0.984	376	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CHLOROETHANE	107	29,800	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CHLOROFORM	0.00918	5.86	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CHLOROMETHANE	0.879	275	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	ETHYLBENZENE	0.26	68.4	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	0.000856	J	0.00235	0.000524	J	0.00214	ND	U	0.00197	ND	U	0.00173	0.000737	J	0.00223
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	M,P-XYLENES	NE	NE	ND	U	0.00395	ND	U	0.00393	ND	U	0.00357	0.00207	J	0.0047	0.000913	J	0.00428	ND	U	0.00394	ND	U	0.00347	0.00201	J	0.00446
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00494	ND	U	0.00491	ND	U	0.00446	ND	U	0.00588	ND	U	0.00535	ND	U	0.00492	ND	U	0.00434	ND	U	0.00557
	NAPHTHALENE	0.0713	43.0	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	N-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	N-PROPYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	O-XYLENE	3.13	898	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	0.000512	J	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	0.000429	J	0.00223

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP246			DP246			DP246			DP246			DP246			DP247			DP247			DP247		
			SAMPLE NO	FFOR1373			FFOR1374			FFOR1375			FFOR1376			FFOR1377			FFOR1378			FFOR1379			FFOR1380		
			SAMPLE DATE	3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			3-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	STYRENE	27.7	7,280	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TOLUENE	25.3	5,270	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	VINYL ACETATE	1.52	2,560	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00197	ND	U	0.00196	ND	U	0.00178	ND	U	0.00235	ND	U	0.00214	ND	U	0.00197	ND	U	0.00173	ND	U	0.00223
	XYLENES	3.13	814	ND	U	0.00592	ND	U	0.00589	ND	U	0.00535	0.00259	J	0.00706	0.000913	J	0.00642	ND	U	0.00591	ND	U	0.0052	0.00243	J	0.00669
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.84		0.65	3.96		0.66	3.69		0.65	6.21		0.67	3.48		0.64	3.38		0.65	3.7		0.67	4.45		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP247			DP247			DP247			DP248			DP248			DP248			DP248			DP248		
			SAMPLE NO	FFOR1381			FFOR1382			FFOR1383			FFOR1384			FFOR1385			FFOR1386			FFOR1387			FFOR1388		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.57	J	4.21	1.5	J	4.45	ND	U	4.39	1.89	J	4.35	ND	U	4.25	1.51	J	4.22	2.34	J	4.75	1.81	J	4.29
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.85	ND	U	6.65	ND	U	4.63	ND	U	5.22	ND	U	5.41	ND	U	4.87	ND	U	5.65	ND	U	5.3
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	UJ	1.81	ND	UJ	1.78	ND	UJ	1.74	ND	UJ	1.98	ND	UJ	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.698	ND	U	0.746	ND	U	0.724	ND	U	0.724	ND	U	0.711	ND	U	0.696	ND	U	0.791	ND	U	0.717
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	ANTHRACENE	5,410	17,200	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	CHRYSENE	160	147	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	FLUORANTHENE	2,430	2,290	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE			DP247			DP247			DP247			DP248			DP248			DP248			DP248			DP248		
			SAMPLE NO			FFOR1381			FFOR1382			FFOR1383			FFOR1384			FFOR1385			FFOR1386			FFOR1387			FFOR1388		
			SAMPLE DATE			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE			FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.86	ND	U	1.81	ND	U	1.81	ND	U	1.78	ND	U	1.74	ND	U	1.98	ND	U	1.79		
	PHENANTHRENE	571	1,830	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	PYRENE	1,790	1,720	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.373	ND	U	0.362	ND	U	0.362	ND	U	0.355	ND	U	0.348	ND	U	0.395	ND	U	0.358		
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000917	J	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	0.00101	J	0.0017	ND	U	0.00227		
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	1-CHLOROHEXANE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	2-BUTANONE	25.5	37,100	ND	U	0.00613	ND	U	0.00641	ND	U	0.00552	0.00293	J	0.00484	ND	U	0.027	0.0044	J	0.00516	ND	U	0.00424	ND	U	0.00568		
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	2-HEXANONE	NE	NE	ND	U	0.00613	ND	U	0.00641	ND	U	0.00552	ND	U	0.00484	ND	U	0.027	ND	U	0.00516	ND	U	0.00424	ND	U	0.00568		
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0306	ND	UJ	0.032	ND	UJ	0.0276	ND	UJ	0.0242	ND	UJ	0.135	ND	UJ	0.0258	ND	UJ	0.0212	ND	UJ	0.0284		
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0306	ND	UJ	0.032	ND	UJ	0.0276	ND	U	0.0242	ND	UJ	0.135	ND	U	0.0258	ND	UJ	0.0212	ND	UJ	0.0284		
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00613	ND	U	0.00641	ND	U	0.00552	ND	U	0.00484	ND	U	0.027	ND	U	0.00516	ND	U	0.00424	ND	U	0.00568		
	ACETONE	77.1	66,600	0.0302	J	0.00613	0.0361	J	0.00641	0.0241	J	0.00552	0.0212		0.00484	ND	U	0.027	0.017		0.00516	0.0189	J	0.00424	0.0329	J	0.00568		
	BENZENE	0.0345	15.4	0.00266		0.00245	0.00294		0.00256	0.000963	J	0.00221	ND	U	0.00194	ND	U	0.0108	0.000465	J	0.00207	0.00302		0.0017	0.00078	J	0.00227		
	BROMOBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	BROMOFORM	12.1	6,116	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00245	ND	UJ	0.00256	ND	UJ	0.00221	ND	UJ	0.00194	ND	U	0.0108	ND	U	0.00207	ND	UJ	0.0017	ND	UJ	0.00227		
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CHLOROBENZENE	0.984	376	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CHLOROETHANE	107	29,800	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CHLOROFORM	0.00918	5.86	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	0.00345	J	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CHLOROMETHANE	0.879	275	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00245	ND	UJ	0.00256	ND	UJ	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	UJ	0.0017	ND	UJ	0.00227		
	ETHYLBENZENE	0.26	68.4	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	M,P-XYLENES	NE	NE	0.0028	J	0.0049	0.00259	J	0.00513	ND	U	0.00442	ND	U	0.00387	ND	U	0.0216	ND	U	0.00413	0.00268	J	0.00339	ND	U	0.00454		
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00613	ND	U	0.00641	ND	U	0.00552	ND	U	0.00484	ND	U	0.027	ND	U	0.00516	ND	U	0.00424	ND	U	0.00568		
	NAPHTHALENE	0.0713	43.0	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	N-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	N-PROPYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		
	O-XYLENE	3.13	898	0.00072	J	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227		

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			LOCATION CODE	DP247			DP247			DP247			DP248			DP248			DP248			DP248			DP248		
			SAMPLE NO	FFOR1381			FFOR1382			FFOR1383			FFOR1384			FFOR1385			FFOR1386			FFOR1387			FFOR1388		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	STYRENE	27.7	7,280	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TOLUENE	25.3	5,270	0.00371		0.00245	0.00424		0.00256	0.00155	J	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	0.00387		0.0017	ND	U	0.00227
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	VINYL ACETATE	1.52	2,560	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00245	ND	U	0.00256	ND	U	0.00221	ND	U	0.00194	ND	U	0.0108	ND	U	0.00207	ND	U	0.0017	ND	U	0.00227
	XYLENES	3.13	814	0.00353	J	0.00735	0.00259	J	0.00769	ND	U	0.00662	ND	U	0.00581	ND	U	0.0324	ND	U	0.0062	0.00268	J	0.00509	ND	U	0.00681
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.46		0.64	5.6		0.68	4.65		0.66	2.77		0.66	5.26		0.65	3.88		0.63	9.7		0.72	5.45		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP249			DP249			DP249			DP249			DP249			DP249			DP250			DP250		
			SAMPLE NO	FFOR1389			FFOR1390			FFOR1391			FFOR1392			FFOR1393			FFOR1394			FFOR1395			FFOR1396		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.19	J	4.27	ND	U	4.34	1.6	J	4.31	ND	U	4.54	ND	U	4.34	ND	U	4.37	1.8	J	4.18	1.47	J	4.21
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.9	ND	U	6.04	ND	U	5.28	ND	U	4.92	ND	U	5.28	ND	U	5.53	ND	U	5.56	ND	U	6.08
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.76	ND	UJ	1.78	ND	UJ	1.77	ND	UJ	1.88	ND	UJ	1.79	ND	UJ	1.82	ND	UJ	1.72	ND	UJ	1.71
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.713	ND	U	0.709	ND	U	0.752	ND	U	0.715	ND	U	0.726	ND	U	0.69	ND	U	0.683
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.218	J	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP249			DP249			DP249			DP249			DP249			DP249			DP250			DP250		
		SAMPLE NO		FFOR1389			FFOR1390			FFOR1391			FFOR1392			FFOR1393			FFOR1394			FFOR1395			FFOR1396		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.78	ND	U	1.77	ND	U	1.88	ND	U	1.79	ND	U	1.82	ND	U	1.72	ND	U	1.71
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.354	ND	U	0.376	ND	U	0.357	ND	U	0.363	ND	U	0.345	ND	U	0.342
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	1-CHLOROHEXANE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	2-BUTANONE	25.5	37,100	ND	U	0.0051	ND	U	0.00569	ND	U	0.00602	ND	U	0.00485	ND	U	0.00706	ND	U	0.00666	ND	U	0.00579	ND	U	0.00645
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	2-HEXANONE	NE	NE	ND	U	0.0051	ND	U	0.00569	ND	U	0.00602	ND	U	0.00485	ND	U	0.00706	ND	U	0.00666	ND	U	0.00579	ND	U	0.00645
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0255	ND	UJ	0.0285	ND	UJ	0.0301	ND	UJ	0.0242	ND	UJ	0.0353	ND	UJ	0.0333	ND	UJ	0.029	ND	UJ	0.0323
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0255	ND	UJ	0.0285	ND	UJ	0.0301	ND	UJ	0.0242	ND	UJ	0.0353	ND	UJ	0.0333	ND	UJ	0.029	ND	UJ	0.0323
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0051	ND	U	0.00569	ND	U	0.00602	ND	U	0.00485	ND	U	0.00706	ND	U	0.00666	ND	U	0.00579	ND	U	0.00645
	ACETONE	77.1	66,600	0.0104	J	0.0051	0.0227	J	0.00569	0.0254		0.00602	0.0192	J	0.00485	0.0355	J	0.00706	0.0259	J	0.00666	0.0243	J	0.00579	0.0235	J	0.00645
	BENZENE	0.0345	15.4	ND	U	0.00204	ND	U	0.00228	0.00225	J	0.00241	0.00285		0.00194	0.0014	J	0.00282	0.0018	J	0.00266	ND	U	0.00232	ND	U	0.00258
	BROMOBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	BROMOFORM	12.1	6,116	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00204	ND	UJ	0.00228	ND	UJ	0.00241	ND	UJ	0.00194	ND	UJ	0.00282	ND	UJ	0.00266	ND	UJ	0.00232	ND	UJ	0.00258
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CHLOROBENZENE	0.984	376	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CHLOROETHANE	107	29,800	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CHLOROFORM	0.00918	5.86	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CHLOROMETHANE	0.879	275	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00204	ND	UJ	0.00228	ND	UJ	0.00241	ND	UJ	0.00194	ND	UJ	0.00282	ND	UJ	0.00266	ND	UJ	0.00232	ND	UJ	0.00258
	ETHYLBENZENE	0.26	68.4	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	M,P-XYLENES	NE	NE	ND	U	0.00408	ND	U	0.00456	0.00191	J	0.00481	0.00221	J	0.00388	0.000868	J	0.00565	0.00169	J	0.00533	ND	U	0.00464	ND	U	0.00516
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0051	ND	U	0.00569	ND	U	0.00602	ND	U	0.00485	ND	U	0.00706	ND	U	0.00666	ND	U	0.00579	ND	U	0.00645
	NAPHTHALENE	0.0713	43.0	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	N-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	N-PROPYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	O-XYLENE	3.13	898	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP249			DP249			DP249			DP249			DP249			DP249			DP250			DP250		
		SAMPLE NO		FFOR1389			FFOR1390			FFOR1391			FFOR1392			FFOR1393			FFOR1394			FFOR1395			FFOR1396		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	STYRENE	27.7	7,280	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TOLUENE	25.3	5,270	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	0.00358		0.00194	0.00163	J	0.00282	0.00309		0.00266	ND	U	0.00232	ND	U	0.00258
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	VINYL ACETATE	1.52	2,560	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00204	ND	U	0.00228	ND	U	0.00241	ND	U	0.00194	ND	U	0.00282	ND	U	0.00266	ND	U	0.00232	ND	U	0.00258
	XYLENES	3.13	814	ND	U	0.00612	ND	U	0.00683	0.00191	J	0.00722	0.00221	J	0.00581	0.000868	J	0.00847	0.00169	J	0.00799	ND	U	0.00695	ND	U	0.00774
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.15		0.64	3.96		0.65	4.97	J-	0.65	7.94		0.69	5.34		0.65	5.39		0.66	4.43		0.64	4.4		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP250			DP250			DP250			DP250			DP251			DP251			DP251			DP251		
			SAMPLE NO	FFOR1397			FFOR1398			FFOR1399			FFOR1400			FFOR1401			FFOR1402			FFOR1403			FFOR1404		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.31	ND	U	4.17	ND	U	4.68	ND	U	4.36	2	J	4.3	ND	U	4.3	ND	U	4.33	ND	U	4.4
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.36	ND	U	4.81	ND	U	5	ND	U	5.4	ND	U	5.21	ND	U	5.08	ND	U	5.42	ND	U	6.09
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,4-DINITROPHENOL	1.26	122	ND	UJ	1.78	ND	UJ	1.75	ND	UJ	1.94	ND	UJ	1.79	ND	UJ	1.77	ND	UJ	1.78	ND	UJ	1.78	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.711	ND	U	0.699	ND	U	0.775	ND	U	0.715	ND	U	0.709	ND	U	0.71	ND	U	0.712	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	FLUORANTHENE	2,430	2,290	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP250			DP250			DP250			DP250			DP251			DP251			DP251			DP251		
			SAMPLE NO	FFOR1397			FFOR1398			FFOR1399			FFOR1400			FFOR1401			FFOR1402			FFOR1403			FFOR1404		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.75	ND	U	1.94	ND	U	1.79	ND	U	1.77	ND	U	1.78	ND	U	1.78	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	PYRENE	1,790	1,720	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.35	ND	U	0.388	ND	U	0.358	ND	U	0.354	ND	U	0.355	ND	U	0.356	ND	U	0.366
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00227	0.000461	J	0.00182	0.00183	J	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	0.00177	J	0.00216
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	0.00109	J	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	0.00107	J	0.00216
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	1-CHLOROHEXANE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	2-BUTANONE	25.5	37,100	ND	U	0.00567	ND	U	0.00454	ND	U	0.00633	ND	U	0.00439	ND	U	0.00591	ND	U	0.00468	ND	U	0.00591	ND	U	0.00539
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	2-HEXANONE	NE	NE	ND	U	0.00567	ND	U	0.00454	ND	U	0.00633	ND	U	0.00439	ND	U	0.00591	ND	U	0.00468	ND	U	0.00591	ND	U	0.00539
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0283	ND	UJ	0.0227	ND	UJ	0.0316	ND	UJ	0.022	ND	UJ	0.0296	ND	UJ	0.0234	ND	UJ	0.0296	ND	UJ	0.027
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0283	ND	U	0.0227	ND	U	0.0316	ND	U	0.022	ND	U	0.0296	ND	U	0.0234	ND	U	0.0296	ND	U	0.027
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00567	ND	U	0.00454	ND	U	0.00633	ND	U	0.00439	ND	U	0.00591	ND	U	0.00468	ND	U	0.00591	ND	U	0.00539
	ACETONE	77.1	66,600	0.0497	J	0.00567	0.00887		0.00454	0.0149		0.00633	0.00435	J	0.00439	0.0321		0.00591	0.00804		0.00468	0.0113		0.00591	0.0186		0.00539
	BENZENE	0.0345	15.4	ND	U	0.00227	0.00141	J	0.00182	0.0056		0.00253	0.000356	J	0.00176	0.000465	J	0.00237	0.000429	J	0.00187	0.000446	J	0.00236	0.00491		0.00216
	BROMOBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	BROMOFORM	12.1	6,116	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00227	ND	U	0.00182	0.00162	J	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	0.00171	J	0.00216
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CHLOROBENZENE	0.984	376	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CHLOROETHANE	107	29,800	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CHLOROFORM	0.00918	5.86	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CHLOROMETHANE	0.879	275	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00227	ND	UJ	0.00182	ND	UJ	0.00253	ND	UJ	0.00176	ND	UJ	0.00237	ND	UJ	0.00187	ND	UJ	0.00236	ND	UJ	0.00216
	ETHYLBENZENE	0.26	68.4	ND	U	0.00227	ND	U	0.00182	0.00126	J	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	0.00128	J	0.00216
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	M,P-XYLENES	NE	NE	ND	U	0.00453	0.00117	J	0.00364	0.00443	J	0.00506	ND	U	0.00351	ND	U	0.00473	ND	U	0.00374	ND	U	0.00473	0.00447		0.00431
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00567	ND	U	0.00454	ND	U	0.00633	ND	U	0.00439	ND	U	0.00591	ND	U	0.00468	ND	U	0.00591	ND	U	0.00539
	NAPHTHALENE	0.0713	43.0	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	N-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	N-PROPYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	O-XYLENE	3.13	898	ND	U	0.00227	0.000273	J	0.00182	0.00112	J	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	0.00116	J	0.00216

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP250			DP250			DP250			DP250			DP251			DP251			DP251			DP251		
		SAMPLE NO		FFOR1397			FFOR1398			FFOR1399			FFOR1400			FFOR1401			FFOR1402			FFOR1403			FFOR1404		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	STYRENE	27.7	7,280	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TOLUENE	25.3	5,270	ND	U	0.00227	0.0021		0.00182	0.00732		0.00253	0.000793	J	0.00176	0.000899	J	0.00237	0.00104	J	0.00187	0.00116	J	0.00236	0.00694		0.00216
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	VINYL ACETATE	1.52	2,560	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00227	ND	U	0.00182	ND	U	0.00253	ND	U	0.00176	ND	U	0.00237	ND	U	0.00187	ND	U	0.00236	ND	U	0.00216
	XYLENES	3.13	814	ND	U	0.0068	0.00144	J	0.00545	0.00556	J	0.00759	ND	U	0.00527	ND	U	0.0071	ND	U	0.00561	ND	U	0.00709	0.00563	J	0.00647
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.96		0.64	3.91		0.64	9.05		0.7	4.84		0.65	4.79		0.64	4.64		0.65	4.79		0.65	7.78	J-	0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP251			DP251			DP252			DP252			DP252			DP252			DP252			DP253		
		SAMPLE NO		FFOR1405			FFOR1406			FFOR1407			FFOR1408			FFOR1409			FFOR1410			FFOR1411			FFOR1412		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.57	ND	U	4.35	3.18	J	4.1	ND	U	4.26	ND	U	4.41	ND	U	4.47	ND	U	4.23	2.12	J	4.14
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.31	ND	U	5.7	ND	U	5	ND	U	5.82	ND	U	5.49	ND	U	5.43	ND	U	5.43	ND	U	4.82
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,4-DINITROPHENOL	1.26	122	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2-CHLOROPHENOL	2.31	391	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	0.625		0.353	ND	U	0.342
	2-METHYLPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	0.0138	J	0.353	ND	U	0.342
	2-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	2-NITROPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.749	ND	U	0.718	ND	U	0.672	ND	U	0.696	ND	U	0.728	ND	U	0.75	ND	U	0.707	ND	U	0.683
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	3-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	4-CHLOROANILINE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	4-NITROANILINE	NE	NE	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	4-NITROPHENOL	NE	NE	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	ACENAPHTHENE	338	3,440	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	ACENAPHTHYLENE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	ANTHRACENE	5,410	17,200	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZENAMINE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	CARBAZOLE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	CHRYSENE	160	147	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	DIBENZOFURAN	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	DIETHYL PHTHALATE	193	48,900	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	0.0176	J	0.375	ND	U	0.353	ND	U	0.342
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	FLUORANTHENE	2,430	2,290	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	FLUORENE	406	2,290	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	ISOPHORONE	3.84	5,120	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	NAPHTHALENE	0.0713	43.0	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	**0.535**		0.353	ND	U	0.342
	NITROBENZENE	0.0125	53.5	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP251			DP251			DP252			DP252			DP252			DP252			DP252			DP253		
			SAMPLE NO	FFOR1405			FFOR1406			FFOR1407			FFOR1408			FFOR1409			FFOR1410			FFOR1411			FFOR1412		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.87	ND	U	1.79	ND	U	1.68	ND	U	1.74	ND	U	1.82	ND	U	1.87	ND	U	1.77	ND	U	1.71
	PHENANTHRENE	571	1,830	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	PHENOL	99.5	18,300	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	PYRENE	1,790	1,720	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
	PYRIDINE	NE	NE	ND	U	0.375	ND	U	0.359	ND	U	0.336	ND	U	0.348	ND	U	0.364	ND	U	0.375	ND	U	0.353	ND	U	0.342
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00165	J	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	0.00142	J	0.00219	0.00128	J	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.00101	J	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	0.000833	J	0.00219	0.000771	J	0.00285	ND	U	0.00263	ND	U	0.00196
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	1-CHLOROHEXANE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	2-BUTANONE	25.5	37,100	ND	U	0.00595	0.00361	J	0.00622	0.00453	J	0.00513	0.00359	J	0.00606	ND	U	0.00547	ND	U	0.00712	0.00473	J	0.00657	0.00537		0.00489
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	2-HEXANONE	NE	NE	ND	U	0.00595	ND	U	0.00622	ND	U	0.00513	ND	U	0.00606	ND	U	0.00547	ND	U	0.00712	ND	U	0.00657	ND	U	0.00489
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0297	ND	UJ	0.0311	ND	UJ	0.0257	ND	UJ	0.0303	ND	UJ	0.0273	ND	UJ	0.0356	ND	UJ	0.0328	ND	UJ	0.0245
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0297	ND	U	0.0311	ND	U	0.0257	ND	U	0.0303	ND	U	0.0273	ND	U	0.0356	ND	U	0.0328	ND	U	0.0245
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00595	ND	U	0.00622	ND	U	0.00513	ND	U	0.00606	ND	U	0.00547	ND	U	0.00712	ND	U	0.00657	ND	U	0.00489
	ACETONE	77.1	66,600	0.0205		0.00595	0.0116		0.00622	0.028		0.00513	0.0312		0.00606	0.0163		0.00547	0.032		0.00712	0.0221		0.00657	0.0364		0.00489
	BENZENE	0.0345	15.4	0.00514		0.00238	0.00045	J	0.00249	0.000461	J	0.00205	0.000425	J	0.00242	0.00429		0.00219	0.00503		0.00285	0.000765	J	0.00263	0.000406	J	0.00196
	BROMOBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	BROMOFORM	12.1	6,116	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	BROMOMETHANE	0.0385	16.5	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CARBON DISULFIDE	5.65	1,530	0.00206	J	0.00238	ND	U	0.00249	0.000538	J	0.00205	ND	U	0.00242	0.00137	J	0.00219	0.00159	J	0.00285	ND	U	0.00263	ND	U	0.00196
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CHLOROBENZENE	0.984	376	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CHLOROETHANE	107	29,800	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CHLOROFORM	0.00918	5.86	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CHLOROMETHANE	0.879	275	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00238	ND	UJ	0.00249	ND	UJ	0.00205	ND	UJ	0.00242	ND	UJ	0.00219	ND	UJ	0.00285	ND	UJ	0.00263	ND	UJ	0.00196
	ETHYLBENZENE	0.26	68.4	0.00122	J	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	0.00103	J	0.00219	0.00109	J	0.00285	ND	U	0.00263	ND	U	0.00196
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	M,P-XYLENES	NE	NE	0.00422	J	0.00476	ND	U	0.00498	ND	U	0.0041	ND	U	0.00484	0.00407	J	0.00437	0.00348	J	0.00569	ND	U	0.00525	ND	U	0.00391
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00595	ND	U	0.00622	ND	U	0.00513	ND	U	0.00606	ND	U	0.00547	ND	U	0.00712	ND	U	0.00657	ND	U	0.00489
	NAPHTHALENE	0.0713	43.0	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	N-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	N-PROPYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	O-XYLENE	3.13	898	0.000996	J	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	0.00109	J	0.00219	0.000852	J	0.00285	ND	U	0.00263	ND	U	0.00196

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP251			DP251			DP252			DP252			DP252			DP252			DP252			DP253		
		SAMPLE NO		FFOR1405			FFOR1406			FFOR1407			FFOR1408			FFOR1409			FFOR1410			FFOR1411			FFOR1412		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	STYRENE	27.7	7,280	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TOLUENE	25.3	5,270	0.00683		0.00238	0.000998	J	0.00249	0.000851	J	0.00205	0.000997	J	0.00242	0.0062		0.00219	0.00607		0.00285	0.00154	J	0.00263	0.000573	J	0.00196
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	VINYL ACETATE	1.52	2,560	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00238	ND	U	0.00249	ND	U	0.00205	ND	U	0.00242	ND	U	0.00219	ND	U	0.00285	ND	U	0.00263	ND	U	0.00196
	XYLENES	3.13	814	0.00522	J	0.00714	ND	U	0.00747	ND	U	0.00616	ND	U	0.00727	0.00517	J	0.00656	0.00433	J	0.00854	ND	U	0.00788	ND	U	0.00587
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.1		0.69	4.38		0.65	5.12		0.61	4.14		0.64	5.26		0.66	7.83	J-	0.68	4.02		0.64	4.77		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP253			DP253			DP253			DP253			DP253			DP254			DP254			DP254		
			SAMPLE NO	FFOR1413			FFOR1414			FFOR1415			FFOR1416			FFOR1417			FFOR1418			FFOR1419			FFOR1420		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.2	ND	U	4.24	ND	U	4.25	ND	U	4.45	ND	U	4.35	4.07	J	4.15	ND	U	4.39	ND	U	4.33
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.29	ND	U	5.14	ND	U	5.73	ND	U	4.96	ND	U	5.9	ND	U	4.77	ND	U	5.45	ND	U	5.48
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,4-DINITROPHENOL	1.26	122	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2-CHLOROPHENOL	2.31	391	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	2-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	2-NITROPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.684	ND	U	0.7	ND	U	0.699	ND	U	0.742	ND	U	0.717	ND	U	0.685	ND	U	0.72	ND	U	0.712
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	3-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	4-CHLOROANILINE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	4-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	4-NITROPHENOL	NE	NE	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	ACENAPHTHENE	338	3,440	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	ACENAPHTHYLENE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	ANTHRACENE	5,410	17,200	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZENAMINE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	0.0467	J	0.343	ND	U	0.36	ND	U	0.356
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	CARBAZOLE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	CHRYSENE	160	147	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DIBENZOFURAN	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DIETHYL PHTHALATE	193	48,900	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	FLUORANTHENE	2,430	2,290	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	FLUORENE	406	2,290	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	ISOPHORONE	3.84	5,120	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	NAPHTHALENE	0.0713	43.0	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	NITROBENZENE	0.0125	53.5	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP253			DP253			DP253			DP253			DP253			DP254			DP254			DP254		
			SAMPLE NO	FFOR1413			FFOR1414			FFOR1415			FFOR1416			FFOR1417			FFOR1418			FFOR1419			FFOR1420		
			SAMPLE DATE	2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.71	ND	U	1.75	ND	U	1.75	ND	U	1.86	ND	U	1.79	ND	U	1.71	ND	U	1.8	ND	U	1.78
	PHENANTHRENE	571	1,830	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	PHENOL	99.5	18,300	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	PYRENE	1,790	1,720	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
	PYRIDINE	NE	NE	ND	U	0.342	ND	U	0.35	ND	U	0.349	ND	U	0.371	ND	U	0.358	ND	U	0.343	ND	U	0.36	ND	U	0.356
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00216	0.000485	J	0.0019	0.000365	J	0.00231	0.00174	J	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	1-CHLOROHEXANE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	2-BUTANONE	25.5	37,100	0.0032	J	0.00539	0.00331	J	0.00475	0.00462	J	0.00577	ND	U	0.00591	ND	U	0.00602	ND	U	0.00469	0.00247	J	0.00576	0.00303	J	0.00577
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	2-HEXANONE	NE	NE	ND	U	0.00539	ND	U	0.00475	ND	U	0.00577	ND	U	0.00591	ND	U	0.00602	ND	U	0.00469	ND	U	0.00576	ND	U	0.00577
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0269	ND	UJ	0.0237	ND	UJ	0.0288	ND	UJ	0.0296	ND	UJ	0.0301	ND	UJ	0.0234	ND	UJ	0.0288	ND	UJ	0.0288
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0269	ND	U	0.0237	ND	U	0.0288	ND	UJ	0.0296	ND	UJ	0.0301	ND	UJ	0.0234	ND	U	0.0288	ND	U	0.0288
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00539	ND	U	0.00475	ND	U	0.00577	ND	U	0.00591	ND	U	0.00602	ND	U	0.00469	ND	U	0.00576	ND	U	0.00577
	ACETONE	77.1	66,600	0.0136		0.00539	0.0154		0.00475	0.021		0.00577	0.0206	J	0.00591	0.0206	J	0.00602	0.0334	J	0.00469	0.0131		0.00576	0.0131		0.00577
	BENZENE	0.0345	15.4	0.000886	J	0.00216	0.00142	J	0.0019	0.00132	J	0.00231	0.00497		0.00236	0.000951	J	0.00241	ND	U	0.00187	0.000371	J	0.0023	0.000391	J	0.00231
	BROMOBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	BROMOFORM	12.1	6,116	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	BROMOMETHANE	0.0385	16.5	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	UJ	0.00236	ND	UJ	0.00241	ND	UJ	0.00187	ND	U	0.0023	ND	U	0.00231
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CHLOROBENZENE	0.984	376	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CHLOROETHANE	107	29,800	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CHLOROFORM	0.00918	5.86	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CHLOROMETHANE	0.879	275	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00216	ND	UJ	0.0019	ND	UJ	0.00231	ND	UJ	0.00236	ND	UJ	0.00241	ND	UJ	0.00187	ND	U	0.0023	ND	U	0.00231
	ETHYLBENZENE	0.26	68.4	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	0.000272	J	0.0023	0.000389	J	0.00231
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	M,P-XYLENES	NE	NE	0.000996	J	0.00431	0.00135	J	0.0038	0.00103	J	0.00461	0.00416	J	0.00473	ND	U	0.00482	ND	U	0.00375	ND	U	0.00461	ND	U	0.00461
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00539	ND	U	0.00475	ND	U	0.00577	ND	U	0.00591	ND	U	0.00602	ND	U	0.00469	ND	U	0.00576	ND	U	0.00577
	NAPHTHALENE	0.0713	43.0	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	N-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	N-PROPYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	O-XYLENE	3.13	898	0.000273	J	0.00216	0.000356	J	0.0019	0.000272	J	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP253			DP253			DP253			DP253			DP253			DP254			DP254			DP254		
		SAMPLE NO		FFOR1413			FFOR1414			FFOR1415			FFOR1416			FFOR1417			FFOR1418			FFOR1419			FFOR1420		
		SAMPLE DATE		2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11			2-Jun-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	STYRENE	27.7	7,280	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TOLUENE	25.3	5,270	0.0018	J	0.00216	0.00229		0.0019	0.00209	J	0.00231	0.00625		0.00236	ND	U	0.00241	0.000548	J	0.00187	ND	U	0.0023	ND	U	0.00231
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	VINYL ACETATE	1.52	2,560	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00216	ND	U	0.0019	ND	U	0.00231	ND	U	0.00236	ND	U	0.00241	ND	U	0.00187	ND	U	0.0023	ND	U	0.00231
	XYLENES	3.13	814	0.00127	J	0.00647	0.0017	J	0.0057	0.0013	J	0.00692	0.00416	J	0.00709	ND	U	0.00723	ND	U	0.00562	ND	U	0.00691	ND	U	0.00692
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.61		0.63	4.99		0.64	6.38		0.63	8.05		0.68	5.36		0.65	5.53		0.62	3.92		0.66	3.78		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP254			DP254			DP255			DP255			DP255			DP255			DP255			DP255		
				SAMPLE NO	FFOR1421			FFOR1422			FFOR1423			FFOR1424			FFOR1425			FFOR1426			FFOR1427			FFOR1428		
				SAMPLE DATE	2-Jun-11			2-Jun-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.72	ND	U	4.28	ND	U	4.56	ND	U	4.43	ND	U	4.45	ND	U	4.34	ND	U	4.39	ND	U	4.36
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.9	ND	U	6.09	ND	U	7.27	ND	U	5.08	ND	U	4.21	ND	U	4.34	ND	U	7.09	ND	U	6.28
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	2-NITROPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.781	ND	U	0.706	ND	U	0.753	ND	U	0.742	ND	U	0.734	ND	U	0.727	ND	U	0.725	ND	U	0.731
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	4-NITROPHENOL	NE	NE	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	ACENAPHTHENE	338	3,440	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	CHRYSENE	160	147	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	FLUORANTHENE	2,430	2,290	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	FLUORENE	406	2,290	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365

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			LOCATION CODE	DP254			DP254			DP255			DP255			DP255			DP255			DP255			DP255		
			SAMPLE NO	FFOR1421			FFOR1422			FFOR1423			FFOR1424			FFOR1425			FFOR1426			FFOR1427			FFOR1428		
			SAMPLE DATE	2-Jun-11			2-Jun-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.95	ND	U	1.76	ND	U	1.88	ND	U	1.86	ND	U	1.84	ND	U	1.82	ND	U	1.81	ND	U	1.83
	PHENANTHRENE	571	1,830	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	PYRENE	1,790	1,720	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
	PYRIDINE	NE	NE	ND	U	0.39	ND	U	0.353	ND	U	0.376	ND	U	0.371	ND	U	0.367	ND	U	0.364	ND	U	0.362	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000698	J	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	0.00157	J	0.00238	0.000683	J	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000422	J	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	0.000942	J	0.00238	0.000472	J	0.00216	ND	U	0.00231	ND	U	0.00193
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	1-CHLOROHEXANE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	UJ	0.00365	ND	UJ	0.00218	ND	UJ	0.00238	ND	UJ	0.00216	ND	UJ	0.00231	ND	UJ	0.00193
	2-BUTANONE	25.5	37,100	0.00344	J	0.00465	0.00357	J	0.00547	ND	U	0.00914	ND	U	0.00546	ND	U	0.00594	ND	U	0.0054	ND	U	0.00577	ND	U	0.00483
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	2-HEXANONE	NE	NE	ND	U	0.00465	ND	U	0.00547	ND	U	0.00914	ND	U	0.00546	ND	U	0.00594	ND	U	0.0054	ND	U	0.00577	ND	U	0.00483
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0232	ND	UJ	0.0273	ND	UJ	0.0457	ND	UJ	0.0273	ND	UJ	0.0297	ND	UJ	0.027	ND	UJ	0.0288	ND	UJ	0.0242
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0232	ND	U	0.0273	ND	U	0.0457	ND	U	0.0273	ND	U	0.0297	ND	U	0.027	ND	U	0.0288	ND	U	0.0242
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00465	ND	U	0.00547	ND	U	0.00914	ND	U	0.00546	ND	U	0.00594	ND	U	0.0054	ND	U	0.00577	ND	U	0.00483
	ACETONE	77.1	66,600	0.0134		0.00465	0.016		0.00547	0.0101	J	0.0457	0.0133	J	0.0273	0.0149	J	0.0297	0.0111	J	0.027	0.0121	J	0.0288	0.00927	J	0.0242
	BENZENE	0.0345	15.4	0.00273		0.00186	0.000374	J	0.00219	0.000965	J	0.00365	0.00066	J	0.00218	0.00546		0.00238	0.00303		0.00216	0.000451	J	0.00231	0.000445	J	0.00193
	BROMOBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	BROMOFORM	12.1	6,116	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	BROMOMETHANE	0.0385	16.5	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CHLOROBENZENE	0.984	376	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CHLOROETHANE	107	29,800	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CHLOROFORM	0.00918	5.86	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CHLOROMETHANE	0.879	275	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	ETHYLBENZENE	0.26	68.4	0.00063	J	0.00186	0.00029	J	0.00219	ND	U	0.00365	0.000391	J	0.00218	0.00122	J	0.00238	0.000647	J	0.00216	ND	U	0.00231	0.000264	J	0.00193
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	M,P-XYLENES	NE	NE	0.00188	J	0.00372	ND	U	0.00437	ND	U	0.00731	ND	U	0.00437	0.00474	J	0.00475	0.00206	J	0.00432	ND	U	0.00461	ND	U	0.00387
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00186	ND	U	0.00219	ND	UJ	0.00365	ND	UJ	0.00218	ND	UJ	0.00238	ND	UJ	0.00216	ND	UJ	0.00231	ND	UJ	0.00193
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00465	ND	U	0.00547	ND	U	0.00914	ND	U	0.00546	ND	U	0.00594	ND	U	0.0054	ND	U	0.00577	ND	U	0.00483
	NAPHTHALENE	0.0713	43.0	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	N-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	N-PROPYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	O-XYLENE	3.13	898	0.000465	J	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	0.00124	J	0.00238	0.000505	J	0.00216	ND	U	0.00231	ND	U	0.00193

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP254			DP254			DP255			DP255			DP255			DP255			DP255			DP255		
		SAMPLE NO		FFOR1421			FFOR1422			FFOR1423			FFOR1424			FFOR1425			FFOR1426			FFOR1427			FFOR1428		
		SAMPLE DATE		2-Jun-11			2-Jun-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	UJ	0.00365	ND	UJ	0.00218	ND	UJ	0.00238	ND	UJ	0.00216	ND	UJ	0.00231	ND	UJ	0.00193
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	STYRENE	27.7	7,280	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TOLUENE	25.3	5,270	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	0.00745		0.00238	0.0038		0.00216	ND	U	0.00231	ND	U	0.00193
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00186	ND	U	0.00219	ND	UJ	0.00365	ND	UJ	0.00218	ND	UJ	0.00238	ND	UJ	0.00216	ND	UJ	0.00231	ND	UJ	0.00193
	VINYL ACETATE	1.52	2,560	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00186	ND	U	0.00219	ND	U	0.00365	ND	U	0.00218	ND	U	0.00238	ND	U	0.00216	ND	U	0.00231	ND	U	0.00193
	XYLENES	3.13	814	ND	U	0.00558	ND	U	0.00656	ND	U	0.011	ND	U	0.00655	0.00598	J	0.00713	0.00257	J	0.00648	ND	U	0.00692	ND	U	0.0058
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.23		0.7	4.68		0.64	3.76	J	1.37	4.19		0.67	7.73		0.68	5.94		0.66	5.34		0.66	5.28		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP256			DP256			DP256			DP256			DP256			DP257			DP257			DP257		
			SAMPLE NO	FFOR1429			FFOR1430			FFOR1431			FFOR1432			FFOR1433			FFOR1434			FFOR1435			FFOR1436		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.32	J	4.39	ND	U	4.28	ND	U	4.46	ND	U	4.45	ND	U	4.34	ND	U	4.27	ND	U	4.39	1.96	J	4.17
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.07	ND	U	4.23	0.778	J	4.81	ND	U	4.45	ND	U	5.11	ND	U	5.28	ND	U	5.78	1.08	J	5.09
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.713	ND	U	0.736	ND	U	0.735	ND	U	0.712	ND	U	0.695	ND	U	0.725	ND	U	0.688
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	ANTHRACENE	5,410	17,200	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	0.0112	J	0.348	ND	U	0.363	ND	U	0.344
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.121	J	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	CHRYSENE	160	147	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	0.02	J	0.348	ND	U	0.363	ND	U	0.344
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	FLUORANTHENE	2,430	2,290	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP256			DP256			DP256			DP256			DP256			DP257			DP257			DP257		
			SAMPLE NO	FFOR1429			FFOR1430			FFOR1431			FFOR1432			FFOR1433			FFOR1434			FFOR1435			FFOR1436		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.78	ND	U	1.84	ND	U	1.84	ND	U	1.78	ND	U	1.74	ND	U	1.81	ND	U	1.72
	PHENANTHRENE	571	1,830	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	PYRENE	1,790	1,720	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.356	ND	U	0.368	ND	U	0.367	ND	U	0.356	ND	U	0.348	ND	U	0.363	ND	U	0.344
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	0.00091	J	0.00198	ND	U	0.00172	0.000136	J	0.00192	ND	U	0.00241	ND	U	0.00202	0.0014	J	0.00258
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	0.000535	J	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	0.000726	J	0.00258
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	1-CHLOROHEXANE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	2-BUTANONE	25.5	37,100	ND	U	0.00572	ND	U	0.0056	ND	U	0.00496	ND	U	0.00431	ND	U	0.00479	ND	U	0.00603	ND	U	0.00505	ND	U	0.00645
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	2-HEXANONE	NE	NE	ND	U	0.00572	ND	U	0.0056	ND	U	0.00496	ND	U	0.00431	ND	U	0.00479	ND	U	0.00603	ND	U	0.00505	ND	U	0.00645
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0286	ND	UJ	0.028	ND	UJ	0.0248	ND	UJ	0.0215	ND	UJ	0.024	ND	UJ	0.0301	ND	UJ	0.0252	ND	UJ	0.0323
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0286	ND	U	0.028	ND	U	0.0248	ND	U	0.0215	ND	U	0.024	ND	U	0.0301	ND	U	0.0252	ND	U	0.0323
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00572	ND	U	0.0056	ND	U	0.00496	ND	U	0.00431	ND	U	0.00479	ND	U	0.00603	ND	U	0.00505	ND	U	0.00645
	ACETONE	77.1	66,600	0.00647	J	0.0286	0.00657	J	0.028	0.00882	J	0.0248	0.00515	J	0.0215	0.00903	J	0.024	0.0075	J	0.0301	0.00368	J	0.0252	0.0122	J	0.0323
	BENZENE	0.0345	15.4	ND	U	0.00229	ND	U	0.00224	0.00244		0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	0.00396		0.00258
	BROMOBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	BROMOFORM	12.1	6,116	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	BROMOMETHANE	0.0385	16.5	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CHLOROBENZENE	0.984	376	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CHLOROETHANE	107	29,800	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CHLOROFORM	0.00918	5.86	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CHLOROMETHANE	0.879	275	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	ETHYLBENZENE	0.26	68.4	ND	U	0.00229	0.000283	J	0.00224	0.000503	J	0.00198	0.000266	J	0.00172	0.00037	J	0.00192	ND	U	0.00241	ND	U	0.00202	0.000989	J	0.00258
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	M,P-XYLENES	NE	NE	ND	U	0.00458	ND	U	0.00448	0.00224	J	0.00397	ND	U	0.00345	0.00042	J	0.00383	ND	U	0.00482	ND	U	0.00404	0.00408	J	0.00516
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00572	ND	U	0.0056	ND	U	0.00496	ND	U	0.00431	ND	U	0.00479	ND	U	0.00603	ND	U	0.00505	ND	U	0.00645
	NAPHTHALENE	0.0713	43.0	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	N-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	N-PROPYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	O-XYLENE	3.13	898	ND	U	0.00229	ND	U	0.00224	0.000567	J	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	0.00101	J	0.00258

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			LOCATION CODE	DP256			DP256			DP256			DP256			DP256			DP257			DP257			DP257		
			SAMPLE NO	FFOR1429			FFOR1430			FFOR1431			FFOR1432			FFOR1433			FFOR1434			FFOR1435			FFOR1436		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	STYRENE	27.7	7,280	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TOLUENE	25.3	5,270	ND	U	0.00229	ND	U	0.00224	0.00346		0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	0.00615		0.00258
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	VINYL ACETATE	1.52	2,560	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00229	ND	U	0.00224	ND	U	0.00198	ND	U	0.00172	ND	U	0.00192	ND	U	0.00241	ND	U	0.00202	ND	U	0.00258
	XYLENES	3.13	814	ND	U	0.00687	ND	U	0.00672	0.0028	J	0.00595	ND	U	0.00517	0.00042	J	0.00575	ND	U	0.00723	ND	U	0.00606	0.00508	J	0.00774
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.12		0.66	3.61	J	0.64	6.96		0.66	6.78		0.66	5.25		0.65	5.58		0.64	4.68		0.66	4.47		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP257			DP257			DP257			DP258			DP258			DP258			DP258			DP258		
			SAMPLE NO	FFOR1437			FFOR1438			FFOR1439			FFOR1440			FFOR1441			FFOR1442			FFOR1443			FFOR1444		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.25	ND	U	4.32	ND	U	4.29	1.99	J	4.25	ND	U	4.53	ND	U	4.31	ND	U	4.31	ND	U	4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	1.17	J	5.71	0.798	J	5.24	ND	U	5.05	ND	U	5.55	ND	U	6.74	ND	U	5.34	ND	U	5.04	ND	U	6.85
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.695	ND	U	0.713	ND	U	0.708	ND	U	0.702	ND	U	0.747	ND	U	0.723	ND	U	0.699	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP257			DP257			DP257			DP258			DP258			DP258			DP258			DP258		
			SAMPLE NO	FFOR1437			FFOR1438			FFOR1439			FFOR1440			FFOR1441			FFOR1442			FFOR1443			FFOR1444		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.78	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.81	ND	U	1.75	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.356	ND	U	0.354	ND	U	0.351	ND	U	0.374	ND	U	0.362	ND	U	0.35	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000806	J	0.00206	0.000939	J	0.00203	0.000201	J	0.00226	ND	U	0.00256	ND	U	0.0026	0.00107	J	0.00213	0.000533	J	0.00208	ND	U	0.0024
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000457	J	0.00206	0.000639	J	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	1-CHLOROHEXANE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	2-BUTANONE	25.5	37,100	ND	U	0.00514	ND	U	0.00506	ND	U	0.00566	0.0051	J	0.0064	0.00193	J	0.00649	0.00419	J	0.00533	0.0033	J	0.00521	0.00581	J	0.006
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	2-HEXANONE	NE	NE	ND	U	0.00514	ND	U	0.00506	ND	U	0.00566	ND	U	0.0064	ND	U	0.00649	ND	U	0.00533	ND	U	0.00521	ND	U	0.006
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0257	ND	UJ	0.0253	ND	UJ	0.0283	ND	UJ	0.032	ND	UJ	0.0325	ND	UJ	0.0266	ND	UJ	0.0261	ND	UJ	0.03
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0257	ND	U	0.0253	ND	U	0.0283	ND	U	0.032	ND	U	0.0325	ND	U	0.0266	ND	U	0.0261	ND	U	0.03
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00514	ND	U	0.00506	ND	U	0.00566	ND	U	0.0064	ND	U	0.00649	ND	U	0.00533	ND	U	0.00521	ND	U	0.006
	ACETONE	77.1	66,600	0.00497	J	0.0257	0.00698	J	0.0253	0.0214	J	0.0283	0.0345	J	0.032	0.00404	J	0.0325	0.00754	J	0.0266	0.00837	J	0.0261	0.0136	J	0.03
	BENZENE	0.0345	15.4	0.00252		0.00206	0.004		0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	0.00334		0.00213	0.00235		0.00208	ND	U	0.0024
	BROMOBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	BROMOFORM	12.1	6,116	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	BROMOMETHANE	0.0385	16.5	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	UJ	0.00256	ND	UJ	0.0026	ND	UJ	0.00213	ND	UJ	0.00208	ND	UJ	0.0024
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CHLOROBENZENE	0.984	376	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CHLOROETHANE	107	29,800	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CHLOROFORM	0.00918	5.86	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CHLOROMETHANE	0.879	275	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	ETHYLBENZENE	0.26	68.4	0.00074	J	0.00206	0.000742	J	0.00203	0.000387	J	0.00226	ND	U	0.00256	ND	U	0.0026	0.000725	J	0.00213	0.00051	J	0.00208	0.000334	J	0.0024
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	M,P-XYLENES	NE	NE	0.00208	J	0.00411	0.00251	J	0.00405	0.000598	J	0.00453	ND	U	0.00512	ND	U	0.00519	0.00274	J	0.00426	0.00122	J	0.00417	ND	U	0.0048
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00514	ND	U	0.00506	ND	U	0.00566	ND	U	0.0064	ND	U	0.00649	ND	U	0.00533	ND	U	0.00521	ND	U	0.006
	NAPHTHALENE	0.0713	43.0	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	N-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	N-PROPYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	O-XYLENE	3.13	898	0.000508	J	0.00206	0.000607	J	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	0.000671	J	0.00213	0.000236	J	0.00208	ND	U	0.0024

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP257			DP257			DP257			DP258			DP258			DP258			DP258			DP258		
		SAMPLE NO		FFOR1437			FFOR1438			FFOR1439			FFOR1440			FFOR1441			FFOR1442			FFOR1443			FFOR1444		
		SAMPLE DATE		2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	STYRENE	27.7	7,280	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TOLUENE	25.3	5,270	0.00375		0.00206	0.00461		0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	0.00474		0.00213	0.00277		0.00208	0.00103	J	0.0024
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	VINYL ACETATE	1.52	2,560	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00206	ND	U	0.00203	ND	U	0.00226	ND	U	0.00256	ND	U	0.0026	ND	U	0.00213	ND	U	0.00208	ND	U	0.0024
	XYLENES	3.13	814	0.00258	J	0.00617	0.00311	J	0.00608	0.000598	J	0.00679	ND	U	0.00768	ND	U	0.00779	0.00341	J	0.0064	0.00145	J	0.00625	ND	U	0.00721
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.08		0.64	6.92		0.64	5.11		0.64	7.89		0.64	4.63		0.68	7.03		0.65	8.17		0.64	4.78		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP259			DP259			DP259			DP259			DP259			DP259			DP260			DP260		
			SAMPLE NO	FFOR1445			FFOR1446			FFOR1447			FFOR1448			FFOR1449			FFOR1450			FFOR1451			FFOR1452		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	24.8		8.18	17.5		4.4	5.89	J+	4.23	ND	U	4.46	1.43	J	4.23	ND	U	4.31	3.36	J	4.32	8.63		4.27
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	0.915	J	4.83	2.02	J	5.34	ND	U	4.81	ND	U	4.9	ND	U	4.92	ND	U	4.97	ND	U	4.32	ND	U	4.49
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	6.82	ND	U	7.27	ND	U	7.1	ND	U	0.726	ND	U	0.71	ND	U	0.711	ND	U	0.712	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	ANTHRACENE	5,410	17,200	0.0418	J	0.341	0.073	J	0.363	0.13	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	0.35	J	3.41	0.369	J	3.63	1.05	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	0.0291	J	0.354
	BENZO(A)PYRENE	0.52	0.148	**0.273**	J	3.41	**0.259**	J	3.63	**0.61**	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	0.0153	J	0.356	0.0223	J	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	0.352	J	3.41	0.449	J	3.63	0.952	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	0.0362	J	0.354
	BENZO(GHI)PERYLENE	NE	NE	0.38	J	3.41	0.257	J	3.63	0.272	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	0.0151	J	0.356	0.0156	J	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	0.326	J	3.41	0.225	J	3.63	0.478	J	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.445	J	3.41	ND	U	3.63	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	0.159	J	3.41	ND	U	3.63	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	CARBAZOLE	NE	NE	0.0248	J	0.341	0.0551	J	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	CHRYSENE	160	147	0.271	J	3.41	0.44	J	3.63	1.09	J	3.55	ND	U	0.363	0.017	J	0.355	ND	U	0.355	0.0206	J	0.356	0.032	J	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	**0.247**	J	3.41	0.141	J	3.63	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	3.41	ND	U	3.63	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	FLUORANTHENE	2,430	2,290	0.373		0.341	0.796		0.363	1.38	J	3.55	ND	U	0.363	0.0292	J	0.355	0.00771	J	0.355	0.0418	J	0.356	0.0433	J	0.354
	FLUORENE	406	2,290	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.322	J	3.41	ND	U	3.63	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP259			DP259			DP259			DP259			DP259			DP259			DP260			DP260		
			SAMPLE NO	FFOR1445			FFOR1446			FFOR1447			FFOR1448			FFOR1449			FFOR1450			FFOR1451			FFOR1452		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.7	ND	U	1.82	ND	U	17.7	ND	U	1.81	ND	U	1.78	ND	U	1.78	ND	U	1.78	ND	U	1.77
	PHENANTHRENE	571	1,830	0.096	J	0.341	0.187	J	0.363	0.308	J	3.55	ND	U	0.363	0.0124	J	0.355	ND	U	0.355	0.0219	J	0.356	0.014	J	0.354
	PHENOL	99.5	18,300	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
	PYRENE	1,790	1,720	0.304	J	3.41	0.496	J	3.63	1.04	J	3.55	ND	U	0.363	0.0277	J	0.355	ND	U	0.355	0.0331	J	0.356	0.0323	J	0.354
	PYRIDINE	NE	NE	ND	U	0.341	ND	U	0.363	ND	U	3.55	ND	U	0.363	ND	U	0.355	ND	U	0.355	ND	U	0.356	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.00226		0.00193	0.003		0.00217	0.000629	J	0.00186	ND	U	0.00213	0.000227	J	0.00189	0.000287	J	0.00203	ND	U	0.00209	0.000152	J	0.00159
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	1-CHLOROHEXANE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	2-BUTANONE	25.5	37,100	0.00488		0.00482	0.00537	J	0.00543	0.0046	J	0.00465	0.00567		0.00534	0.00389	J	0.00473	0.00573		0.00507	0.0103		0.00523	0.00805		0.00398
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	2-HEXANONE	NE	NE	ND	U	0.00482	ND	U	0.00543	ND	U	0.00465	ND	U	0.00534	ND	U	0.00473	ND	U	0.00507	ND	U	0.00523	ND	U	0.00398
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0241	ND	UJ	0.0271	ND	UJ	0.0233	ND	UJ	0.0267	ND	UJ	0.0236	ND	UJ	0.0254	ND	UJ	0.0261	ND	UJ	0.0199
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0241	ND	U	0.0271	ND	U	0.0233	ND	U	0.0267	ND	U	0.0236	ND	U	0.0254	ND	U	0.0261	ND	U	0.0199
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00482	ND	U	0.00543	ND	U	0.00465	ND	U	0.00534	ND	U	0.00473	ND	U	0.00507	ND	U	0.00523	ND	U	0.00398
	ACETONE	77.1	66,600	0.0195	J	0.0241	0.0189	J	0.0271	0.00707	J	0.0233	0.0179	J	0.0267	0.0126	J	0.0236	0.0209	J	0.0254	0.0484	J	0.0261	0.039	J	0.0199
	BENZENE	0.0345	15.4	ND	U	0.00193	ND	U	0.00217	0.00233		0.00186	ND	U	0.00213	0.00114	J	0.00189	0.00151	J	0.00203	ND	U	0.00209	ND	U	0.00159
	BROMOBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	BROMOFORM	12.1	6,116	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	BROMOMETHANE	0.0385	16.5	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CARBON DISULFIDE	5.65	1,530	ND	UJ	0.00193	ND	UJ	0.00217	ND	UJ	0.00186	ND	UJ	0.00213	ND	UJ	0.00189	ND	UJ	0.00203	ND	UJ	0.00209	ND	UJ	0.00159
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CHLOROBENZENE	0.984	376	ND	U	0.00193	ND	U	0.00217	ND	UJ	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CHLOROETHANE	107	29,800	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CHLOROFORM	0.00918	5.86	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CHLOROMETHANE	0.879	275	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	ETHYLBENZENE	0.26	68.4	0.000561	J	0.00193	0.000704	J	0.00217	0.000504	J	0.00186	0.000507	J	0.00213	0.000668	J	0.00189	0.00059	J	0.00203	ND	U	0.00209	ND	U	0.00159
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	M,P-XYLENES	NE	NE	0.00368	J	0.00385	0.00565		0.00434	0.00162	J	0.00372	ND	U	0.00427	0.000763	J	0.00378	0.00105	J	0.00406	0.000379	J	0.00418	0.000366	J	0.00318
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00482	ND	U	0.00543	ND	U	0.00465	ND	U	0.00534	ND	U	0.00473	ND	U	0.00507	ND	U	0.00523	ND	U	0.00398
	NAPHTHALENE	0.0713	43.0	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	N-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	N-PROPYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	O-XYLENE	3.13	898	0.00199		0.00193	0.00352		0.00217	0.000407	J	0.00186	ND	U	0.00213	0.000146	J	0.00189	0.000245	J	0.00203	ND	U	0.00209	0.000127	J	0.00159

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP259			DP259			DP259			DP259			DP259			DP259			DP260			DP260		
			SAMPLE NO	FFOR1445			FFOR1446			FFOR1447			FFOR1448			FFOR1449			FFOR1450			FFOR1451			FFOR1452		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	STYRENE	27.7	7,280	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TOLUENE	25.3	5,270	0.000962	J	0.00193	0.0012	J	0.00217	0.00314	J-	0.00186	0.00127	J	0.00213	0.00199		0.00189	0.00255		0.00203	0.00144	J	0.00209	ND	U	0.00159
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	VINYL ACETATE	1.52	2,560	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00193	ND	U	0.00217	ND	U	0.00186	ND	U	0.00213	ND	U	0.00189	ND	U	0.00203	ND	U	0.00209	ND	U	0.00159
	XYLENES	3.13	814	0.00567	J	0.00578	0.00917		0.00652	0.00203	J	0.00558	ND	U	0.0064	0.000909	J	0.00567	0.00129	J	0.00609	ND	U	0.00628	0.000493	J	0.00477
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	117		0.62	28.7		0.66	11.9	J-	1.29	6.99		0.66	5.12		0.65	6.01		0.65	21.8		0.64	20.1		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP260			DP260			DP260			DP260			DP261			DP261			DP261			DP261		
			SAMPLE NO	FFOR1453			FFOR1454			FFOR1455			FFOR1456			FFOR1457			FFOR1458			FFOR1459			FFOR1460		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.33	J	4.52	ND	U	4.53	ND	U	4.4	ND	U	4.34	4.4		4.15	ND	U	4.38	ND	U	4.24	1.41	J	4.34
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.53	ND	U	5.21	ND	U	6.26	ND	U	5.27	ND	U	6.01	ND	U	5.38	ND	U	5.02	ND	U	5.14
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2-CHLOROPHENOL	2.31	391	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.746	ND	U	0.741	ND	U	0.739	ND	U	0.704	ND	U	0.695	ND	U	0.723	ND	U	0.709	ND	U	0.715
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	4-CHLOROANILINE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	ACENAPHTHYLENE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	ANTHRACENE	5,410	17,200	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZENAMINE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.0372	J	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.023	J	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.0341	J	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	0.0348	J	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	CARBAZOLE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	CHRYSENE	160	147	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.0378	J	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DIBENZOFURAN	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DIETHYL PHTHALATE	193	48,900	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	FLUORANTHENE	2,430	2,290	0.0111	J	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.0252	J	0.348	0.00787	J	0.362	ND	U	0.355	ND	U	0.358
	FLUORENE	406	2,290	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	ISOPHORONE	3.84	5,120	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	NAPHTHALENE	0.0713	43.0	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	NITROBENZENE	0.0125	53.5	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP260			DP260			DP260			DP260			DP261			DP261			DP261			DP261		
			SAMPLE NO	FFOR1453			FFOR1454			FFOR1455			FFOR1456			FFOR1457			FFOR1458			FFOR1459			FFOR1460		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.85	ND	U	1.85	ND	U	1.76	ND	U	1.74	ND	U	1.81	ND	U	1.77	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	PHENOL	99.5	18,300	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	PYRENE	1,790	1,720	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	0.038	J	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
	PYRIDINE	NE	NE	ND	U	0.373	ND	U	0.37	ND	U	0.369	ND	U	0.352	ND	U	0.348	ND	U	0.362	ND	U	0.355	ND	U	0.358
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	0.000678	J	0.00216	ND	U	0.00233	0.000504	J	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	0.000594	J	0.00206
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	0.000256	J	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	0.000286	J	0.00206
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	1-CHLOROHEXANE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	2-BUTANONE	25.5	37,100	0.00294	J	0.0059	0.0054		0.00539	0.00587		0.00583	0.00452	J	0.00533	ND	U	0.00582	ND	U	0.00468	ND	U	0.00482	ND	U	0.00514
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	2-HEXANONE	NE	NE	ND	U	0.0059	ND	U	0.00539	ND	U	0.00583	ND	U	0.00533	ND	U	0.00582	ND	U	0.00468	ND	U	0.00482	ND	U	0.00514
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0295	ND	UJ	0.0269	ND	UJ	0.0291	ND	UJ	0.0266	ND	UJ	0.0291	ND	UJ	0.0234	ND	UJ	0.0241	ND	UJ	0.0257
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0295	ND	U	0.0269	ND	U	0.0291	ND	U	0.0266	ND	U	0.0291	ND	U	0.0234	ND	U	0.0241	ND	U	0.0257
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0059	ND	U	0.00539	ND	U	0.00583	ND	U	0.00533	ND	U	0.00582	ND	U	0.00468	ND	U	0.00482	ND	U	0.00514
	ACETONE	77.1	66,600	0.0117	J	0.0295	0.0203	J	0.0269	0.0235	J	0.0291	0.0215	J	0.0266	ND	UJ	0.0291	ND	UJ	0.0234	ND	UJ	0.0241	ND	UJ	0.0257
	BENZENE	0.0345	15.4	ND	U	0.00236	0.00271		0.00216	ND	U	0.00233	0.00285		0.00213	0.000711	J	0.00233	0.00065	J	0.00187	0.000361	J	0.00193	0.00183	J	0.00206
	BROMOBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	BROMOFORM	12.1	6,116	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	BROMOMETHANE	0.0385	16.5	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CARBON DISULFIDE	5.65	1,530	ND	UJ	0.00236	ND	UJ	0.00216	ND	UJ	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CHLOROBENZENE	0.984	376	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CHLOROETHANE	107	29,800	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CHLOROFORM	0.00918	5.86	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CHLOROMETHANE	0.879	275	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	UJ	0.00233	ND	UJ	0.00187	ND	UJ	0.00193	ND	UJ	0.00206
	ETHYLBENZENE	0.26	68.4	ND	U	0.00236	0.000618	J	0.00216	0.000316	J	0.00233	0.000905	J	0.00213	0.000343	J	0.00233	0.000244	J	0.00187	ND	U	0.00193	0.000413	J	0.00206
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	M,P-XYLENES	NE	NE	ND	U	0.00472	0.0021	J	0.00431	ND	U	0.00466	0.00151	J	0.00426	0.000581	J	0.00465	0.000425	J	0.00375	0.00043	J	0.00386	0.00162	J	0.00411
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0059	ND	U	0.00539	ND	U	0.00583	ND	U	0.00533	ND	U	0.00582	ND	U	0.00468	ND	U	0.00482	ND	U	0.00514
	NAPHTHALENE	0.0713	43.0	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	N-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	N-PROPYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	O-XYLENE	3.13	898	ND	U	0.00236	0.000499	J	0.00216	ND	U	0.00233	0.000468	J	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	0.000386	J	0.00206

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP260			DP260			DP260			DP260			DP261			DP261			DP261			DP261		
			SAMPLE NO	FFOR1453			FFOR1454			FFOR1455			FFOR1456			FFOR1457			FFOR1458			FFOR1459			FFOR1460		
			SAMPLE DATE	2-Aug-11			2-Aug-11			2-Aug-11			2-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	STYRENE	27.7	7,280	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	UJ	0.00206
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TOLUENE	25.3	5,270	ND	U	0.00236	0.00349		0.00216	0.00134	J	0.00233	0.0032		0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	VINYL ACETATE	1.52	2,560	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	UJ	0.00206
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00236	ND	U	0.00216	ND	U	0.00233	ND	U	0.00213	ND	U	0.00233	ND	U	0.00187	ND	U	0.00193	ND	U	0.00206
	XYLENES	3.13	814	ND	U	0.00707	0.0026	J	0.00647	ND	U	0.00699	0.00197	J	0.00639	ND	U	0.00698	ND	U	0.00562	ND	U	0.00579	0.00201	J	0.00617
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	16.9		0.67	8.16		0.68	6.83		0.67	5.59		0.65	9.84		0.63	4.86		0.66	4.55		0.64	5.97	J-	0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP261			DP261			DP262			DP262			DP262			DP262			DP262			DP263		
			SAMPLE NO	FFOR1461			FFOR1462			FFOR1463			FFOR1464			FFOR1465			FFOR1466			FFOR1467			FFOR1468		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.31	ND	U	4.31	2.38	J	4.16	ND	U	4.39	ND	U	4.43	ND	U	4.19	ND	U	4.38	4.66		4.2
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5	ND	U	5.26	ND	U	5.66	ND	U	5.97	ND	U	5.6	ND	U	4.97	ND	U	5.28	ND	U	6.06
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.711	ND	U	0.712	ND	U	0.698	ND	U	0.725	ND	U	0.725	ND	U	0.702	ND	U	0.733	ND	U	0.698
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	0.0222	J	0.349
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	CHRYSENE	160	147	ND	U	0.355	ND	U	0.356	ND	U	0.349	0.0171	J	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	DIBENZOFURAN	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	FLUORANTHENE	2,430	2,290	ND	U	0.355	ND	U	0.356	ND	U	0.349	0.0254	J	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	0.0257	J	0.349
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	3.49
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP261			DP261			DP262			DP262			DP262			DP262			DP262			DP263		
			SAMPLE NO	FFOR1461			FFOR1462			FFOR1463			FFOR1464			FFOR1465			FFOR1466			FFOR1467			FFOR1468		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.78	ND	U	1.75	ND	U	1.81	ND	U	1.81	ND	U	1.76	ND	U	1.83	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	0.0181	J	0.349
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
	PYRENE	1,790	1,720	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	0.0235	J	0.349
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.356	ND	U	0.349	ND	U	0.362	ND	U	0.362	ND	U	0.351	ND	U	0.366	ND	U	0.349
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000126	J	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	0.000279	J	0.00179	0.000679	J	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000127	J	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	0.000137	J	0.00179	0.000369	J	0.00172	ND	U	0.00202	ND	U	0.00224
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	1-CHLOROHEXANE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	UJ	0.00202	ND	U	0.00224
	2-BUTANONE	25.5	37,100	ND	U	0.00475	ND	U	0.00478	ND	U	0.0054	ND	U	0.00507	ND	U	0.00447	ND	U	0.00429	ND	U	0.00506	ND	U	0.00559
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	2-HEXANONE	NE	NE	ND	U	0.00475	ND	U	0.00478	ND	U	0.0054	ND	U	0.00507	ND	U	0.00447	ND	U	0.00429	ND	U	0.00506	ND	U	0.00559
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0237	ND	UJ	0.0239	ND	UJ	0.027	ND	UJ	0.0254	ND	UJ	0.0224	ND	UJ	0.0214	ND	UJ	0.0253	ND	UJ	0.028
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0237	ND	U	0.0239	ND	U	0.027	ND	U	0.0254	ND	U	0.0224	ND	U	0.0214	ND	U	0.0253	ND	U	0.028
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00475	ND	U	0.00478	ND	U	0.0054	ND	U	0.00507	ND	U	0.00447	ND	U	0.00429	ND	U	0.00506	ND	U	0.00559
	ACETONE	77.1	66,600	ND	UJ	0.0237	ND	UJ	0.0239	ND	UJ	0.027	ND	UJ	0.0254	ND	UJ	0.0224	ND	UJ	0.0214	0.0241	J	0.0253	ND	UJ	0.028
	BENZENE	0.0345	15.4	0.000651	J	0.0019	0.000424	J	0.00191	0.000365	J	0.00216	0.000372	J	0.00203	0.000911	J	0.00179	0.00265		0.00172	0.000753	J	0.00202	0.000234	J	0.00224
	BROMOBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	BROMOFORM	12.1	6,116	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	BROMOMETHANE	0.0385	16.5	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CHLOROBENZENE	0.984	376	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CHLOROETHANE	107	29,800	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CHLOROFORM	0.00918	5.86	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CHLOROMETHANE	0.879	275	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.0019	ND	UJ	0.00191	ND	UJ	0.00216	ND	UJ	0.00203	ND	UJ	0.00179	ND	UJ	0.00172	ND	UJ	0.00202	ND	UJ	0.00224
	ETHYLBENZENE	0.26	68.4	0.000368	J	0.0019	ND	U	0.00191	ND	U	0.00216	0.000281	J	0.00203	0.000231	J	0.00179	0.000567	J	0.00172	ND	U	0.00202	ND	U	0.00224
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	M,P-XYLENES	NE	NE	0.000849	J	0.0038	0.00036	J	0.00383	0.000393	J	0.00432	0.000392	J	0.00406	0.000797	J	0.00358	0.00181	J	0.00343	0.000524	J	0.00404	ND	U	0.00447
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	UJ	0.00202	ND	U	0.00224
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00475	ND	U	0.00478	ND	U	0.0054	ND	U	0.00507	ND	U	0.00447	ND	U	0.00429	ND	U	0.00506	ND	U	0.00559
	NAPHTHALENE	0.0713	43.0	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	N-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	N-PROPYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	O-XYLENE	3.13	898	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP261			DP261			DP262			DP262			DP262			DP262			DP262			DP263		
			SAMPLE NO	FFOR1461			FFOR1462			FFOR1463			FFOR1464			FFOR1465			FFOR1466			FFOR1467			FFOR1468		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	STYRENE	27.7	7,280	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TOLUENE	25.3	5,270	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	0.000968	J	0.00202	ND	U	0.00224
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	VINYL ACETATE	1.52	2,560	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0019	ND	U	0.00191	ND	U	0.00216	ND	U	0.00203	ND	U	0.00179	ND	U	0.00172	ND	U	0.00202	ND	U	0.00224
	XYLENES	3.13	814	ND	U	0.0057	ND	U	0.00574	ND	U	0.00648	ND	U	0.00609	ND	U	0.00537	ND	U	0.00515	0.000524	J	0.00607	ND	U	0.00671
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.94		0.64	5.03		0.66	7.62		0.63	4.37		0.66	5.97		0.66	6		0.64	4.26		0.67	69.6		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP263			DP263			DP263			DP263			DP263			DP264			DP264			DP264		
		SAMPLE NO		FFOR1469			FFOR1470			FFOR1471			FFOR1472			FFOR1473			FFOR1474			FFOR1475			FFOR1476		
		SAMPLE DATE		9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.39	ND	U	4.52	ND	U	4.47	ND	U	4.31	1.76	J	4.2	ND	U	4.32	ND	U	4.48
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.52	ND	U	5.78	ND	U	5.51	ND	U	4.76	ND	U	5.2	ND	U	5.46	ND	U	5.08	ND	U	5.05
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.737	ND	U	0.745	ND	U	0.738	ND	U	0.722	ND	U	0.699	ND	U	0.713	ND	U	0.737
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.368	ND	U	0.373	0.394		0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	0.0116	J	0.35	ND	U	0.357	ND	U	0.368
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP263			DP263			DP263			DP263			DP263			DP264			DP264			DP264		
			SAMPLE NO	FFOR1469			FFOR1470			FFOR1471			FFOR1472			FFOR1473			FFOR1474			FFOR1475			FFOR1476		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.84	ND	U	1.86	ND	U	1.85	ND	U	1.81	ND	U	1.75	ND	U	1.78	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.368	ND	U	0.373	ND	U	0.369	ND	U	0.361	ND	U	0.35	ND	U	0.357	ND	U	0.368
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	0.000777	J	0.0021	0.000692	J	0.00209	ND	U	0.00202	0.000267	J	0.00183	ND	U	0.00241	ND	U	0.00202	0.000446	J	0.00189
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	0.000422	J	0.0021	0.000347	J	0.00209	ND	U	0.00202	0.000132	J	0.00183	ND	U	0.00241	ND	U	0.00202	0.000265	J	0.00189
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	1-CHLOROHEXANE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	2-BUTANONE	25.5	37,100	ND	U	0.00528	ND	U	0.00524	ND	U	0.00524	ND	U	0.00505	ND	U	0.00458	ND	U	0.00603	ND	U	0.00504	ND	U	0.00474
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	2-HEXANONE	NE	NE	ND	U	0.00528	ND	U	0.00524	ND	U	0.00524	ND	U	0.00505	ND	U	0.00458	ND	U	0.00603	ND	U	0.00504	ND	U	0.00474
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0264	ND	UJ	0.0262	ND	UJ	0.0262	ND	UJ	0.0252	ND	UJ	0.0229	ND	UJ	0.0302	ND	UJ	0.0252	ND	UJ	0.0237
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0264	ND	U	0.0262	ND	U	0.0262	ND	U	0.0252	ND	U	0.0229	ND	U	0.0302	ND	U	0.0252	ND	U	0.0237
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00528	ND	U	0.00524	ND	U	0.00524	ND	U	0.00505	ND	U	0.00458	ND	U	0.00603	ND	U	0.00504	ND	U	0.00474
	ACETONE	77.1	66,600	ND	UJ	0.0264	ND	UJ	0.0262	ND	UJ	0.0262	ND	UJ	0.0252	ND	UJ	0.0229	ND	UJ	0.0302	ND	UJ	0.0252	ND	UJ	0.0237
	BENZENE	0.0345	15.4	0.000145	J	0.00211	0.00242		0.0021	0.00192	J	0.00209	0.000274	J	0.00202	0.000975	J	0.00183	0.000266	J	0.00241	0.000109	J	0.00202	0.00122	J	0.00189
	BROMOBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	BROMOFORM	12.1	6,116	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	BROMOMETHANE	0.0385	16.5	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CHLOROBENZENE	0.984	376	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CHLOROETHANE	107	29,800	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CHLOROFORM	0.00918	5.86	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CHLOROMETHANE	0.879	275	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00211	ND	UJ	0.0021	ND	UJ	0.00209	ND	UJ	0.00202	ND	UJ	0.00183	ND	UJ	0.00241	ND	UJ	0.00202	ND	UJ	0.00189
	ETHYLBENZENE	0.26	68.4	ND	U	0.00211	0.00062	J	0.0021	0.000523	J	0.00209	0.000272	J	0.00202	0.000405	J	0.00183	ND	U	0.00241	ND	U	0.00202	0.000502	J	0.00189
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	M,P-XYLENES	NE	NE	ND	U	0.00423	0.00223	J	0.0042	0.00181	J	0.00419	ND	U	0.00404	0.000776	J	0.00366	ND	U	0.00483	ND	U	0.00403	0.00119	J	0.00379
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00528	ND	U	0.00524	ND	U	0.00524	ND	U	0.00505	ND	U	0.00458	ND	U	0.00603	ND	U	0.00504	ND	U	0.00474
	NAPHTHALENE	0.0713	43.0	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	N-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	N-PROPYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	O-XYLENE	3.13	898	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189

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			LOCATION CODE	DP263			DP263			DP263			DP263			DP263			DP264			DP264			DP264		
			SAMPLE NO	FFOR1469			FFOR1470			FFOR1471			FFOR1472			FFOR1473			FFOR1474			FFOR1475			FFOR1476		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	STYRENE	27.7	7,280	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TOLUENE	25.3	5,270	ND	U	0.00211	ND	U	0.0021	0.00283		0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	VINYL ACETATE	1.52	2,560	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00211	ND	U	0.0021	ND	U	0.00209	ND	U	0.00202	ND	U	0.00183	ND	U	0.00241	ND	U	0.00202	ND	U	0.00189
	XYLENES	3.13	814	ND	U	0.00634	ND	U	0.00629	ND	U	0.00628	ND	U	0.00606	ND	U	0.00549	ND	U	0.00724	ND	U	0.00605	ND	U	0.00568
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.87		0.66	7.03		0.67	7.74		0.67	6.36		0.67	5.09		0.66	8.36		0.63	5.08		0.65	7.25		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP264			DP264			DP265			DP265			DP265			DP265			DP265			DP265		
			SAMPLE NO	FFOR1477			FFOR1478			FFOR1479			FFOR1480			FFOR1481			FFOR1482			FFOR1483			FFOR1484		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.58	ND	U	4.38	2.45	J	4.44	ND	U	4.47	ND	U	4.47	ND	U	4.4	ND	U	4.29	ND	U	4.26
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.61	ND	U	4.86	ND	U	5.57	ND	U	5.87	ND	U	4.88	ND	U	5.07	ND	U	5.16	ND	U	4.69
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.372	ND	UJ	0.365	ND	UJ	0.366	ND	UJ	0.364	ND	UJ	0.375	ND	UJ	0.363	ND	UJ	0.35	ND	UJ	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.744	ND	U	0.73	ND	U	0.732	ND	U	0.728	ND	U	0.75	ND	U	0.727	ND	U	0.7	ND	U	0.708
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.372	ND	U	0.365	0.0589	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.372	ND	U	0.365	0.0324	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.372	ND	U	0.365	0.0498	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.372	ND	U	0.365	0.0145	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.372	ND	U	0.365	0.0246	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.372	ND	U	0.365	0.0478	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.372	ND	U	0.365	0.047	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP264			DP264			DP265			DP265			DP265			DP265			DP265			DP265		
			SAMPLE NO	FFOR1477			FFOR1478			FFOR1479			FFOR1480			FFOR1481			FFOR1482			FFOR1483			FFOR1484		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.86	ND	U	1.82	ND	U	1.83	ND	U	1.82	ND	U	1.87	ND	U	1.82	ND	U	1.75	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.372	ND	U	0.365	0.0186	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.372	ND	U	0.365	0.0593	J	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.372	ND	U	0.365	ND	U	0.366	ND	U	0.364	ND	U	0.375	ND	U	0.363	ND	U	0.35	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000265	J	0.00198	0.000161	J	0.00181	ND	U	0.00238	ND	U	0.00206	0.000426	J	0.0018	0.000285	J	0.00232	0.000245	J	0.00195	0.000183	J	0.00177
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000135	J	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	0.000245	J	0.0018	0.000192	J	0.00232	0.000145	J	0.00195	ND	U	0.00177
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	1-CHLOROHEXANE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00198	ND	UJ	0.00181	ND	UJ	0.00238	ND	UJ	0.00206	ND	UJ	0.0018	ND	UJ	0.00232	ND	UJ	0.00195	ND	UJ	0.00177
	2-BUTANONE	25.5	37,100	ND	U	0.00494	ND	U	0.00452	ND	U	0.00594	ND	U	0.00514	ND	U	0.00451	ND	U	0.00581	ND	U	0.00486	ND	U	0.00443
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	2-HEXANONE	NE	NE	ND	U	0.00494	ND	U	0.00452	ND	U	0.00594	ND	U	0.00514	ND	U	0.00451	ND	U	0.00581	ND	U	0.00486	ND	U	0.00443
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0247	ND	UJ	0.0226	ND	UJ	0.0297	ND	UJ	0.0257	ND	UJ	0.0225	ND	UJ	0.029	ND	UJ	0.0243	ND	UJ	0.0222
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0247	ND	U	0.0226	ND	U	0.0297	ND	U	0.0257	ND	U	0.0225	ND	U	0.029	ND	U	0.0243	ND	U	0.0222
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00494	ND	U	0.00452	ND	U	0.00594	ND	U	0.00514	ND	U	0.00451	ND	U	0.00581	ND	U	0.00486	ND	U	0.00443
	ACETONE	77.1	66,600	0.0325		0.0247	0.0314		0.0226	ND	UJ	0.0297	0.0371		0.0257	0.0305		0.0225	0.0406		0.029	0.0372		0.0243	0.0398		0.0222
	BENZENE	0.0345	15.4	0.0012	J	0.00198	0.0011	J	0.00181	0.000626	J	0.00238	0.000682	J	0.00206	0.00145	J	0.0018	0.00271		0.00232	0.00219		0.00195	0.0016	J	0.00177
	BROMOBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	BROMOFORM	12.1	6,116	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	BROMOMETHANE	0.0385	16.5	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	UJ	0.00232	ND	UJ	0.00195	ND	UJ	0.00177
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CHLOROBENZENE	0.984	376	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CHLOROETHANE	107	29,800	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CHLOROFORM	0.00918	5.86	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CHLOROMETHANE	0.879	275	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00198	ND	UJ	0.00181	ND	UJ	0.00238	ND	UJ	0.00206	ND	UJ	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	ETHYLBENZENE	0.26	68.4	0.000512	J	0.00198	0.000372	J	0.00181	ND	U	0.00238	0.000261	J	0.00206	0.000367	J	0.0018	0.00074	J	0.00232	0.000484	J	0.00195	0.000394	J	0.00177
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	M,P-XYLENES	NE	NE	0.00105	J	0.00395	0.000639	J	0.00361	0.00056	J	0.00475	0.000475	J	0.00411	0.00127	J	0.00361	0.00141	J	0.00465	0.00109	J	0.00389	0.00106	J	0.00354
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00198	ND	UJ	0.00181	ND	UJ	0.00238	ND	UJ	0.00206	ND	UJ	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00494	ND	U	0.00452	ND	U	0.00594	ND	U	0.00514	ND	U	0.00451	ND	U	0.00581	ND	U	0.00486	ND	U	0.00443
	NAPHTHALENE	0.0713	43.0	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	N-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	N-PROPYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	O-XYLENE	3.13	898	0.000269	J	0.00198	0.000179	J	0.00181	ND	U	0.00238	ND	U	0.00206	0.00032	J	0.0018	0.000407	J	0.00232	0.0003	J	0.00195	0.000236	J	0.00177

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP264			DP264			DP265			DP265			DP265			DP265			DP265			DP265		
		SAMPLE NO		FFOR1477			FFOR1478			FFOR1479			FFOR1480			FFOR1481			FFOR1482			FFOR1483			FFOR1484		
		SAMPLE DATE		9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	STYRENE	27.7	7,280	ND	U	0.00198	ND	U	0.00181	ND	UJ	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TOLUENE	25.3	5,270	0.00187	J	0.00198	0.00114	J	0.00181	0.000595	J	0.00238	0.000694	J	0.00206	0.00182		0.0018	0.00259		0.00232	0.00192	J	0.00195	0.00152	J	0.00177
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	VINYL ACETATE	1.52	2,560	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00198	ND	U	0.00181	ND	U	0.00238	ND	U	0.00206	ND	U	0.0018	ND	U	0.00232	ND	U	0.00195	ND	U	0.00177
	XYLENES	3.13	814	0.00132	J	0.00593	0.000818	J	0.00542	0.00056	J	0.00713	0.000475	J	0.00617	0.00159	J	0.00541	0.00182	J	0.00697	0.00139	J	0.00584	0.0013	J	0.00532
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.95		0.68	5.36	J-	0.66	11.8		0.67	3.8		0.67	7.62		0.68	5.11		0.66	5.4		0.64	5.04		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP266			DP266			DP266			DP266			DP266			DP267			DP267			DP267		
			SAMPLE NO	FFOR1485			FFOR1486			FFOR1487			FFOR1488			FFOR1489			FFOR1490			FFOR1491			FFOR1492		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.81	J	4.23	ND	U	4.39	ND	U	4.45	ND	U	4.41	ND	U	4.24	2.74	J	4.32	ND	U	4.36	ND	U	4.55
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.97	ND	U	5.01	ND	U	5.37	ND	U	5.34	ND	U	6.09	ND	U	5.81	ND	U	6.45	ND	U	5.8
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.352	ND	UJ	0.358	ND	UJ	0.364	ND	UJ	0.364	ND	UJ	0.35	ND	UJ	0.356	ND	UJ	0.359	ND	UJ	0.381
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.715	ND	U	0.728	ND	U	0.728	ND	U	0.7	ND	U	0.712	ND	U	0.719	ND	U	0.761
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	ANTHRACENE	5,410	17,200	0.0338	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZO(A)ANTHRACENE	1.57	1.48	0.234	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZO(A)PYRENE	0.52	0.148	0.147	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZO(B)FLUORANTHENE	5.31	1.48	0.228	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZO(GHI)PERYLENE	NE	NE	0.0581	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BENZO(K)FLUORANTHENE	52.0	14.8	0.106	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	CHRYSENE	160	147	0.255	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	FLUORANTHENE	2,430	2,290	0.375		0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	0.0599	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381

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			LOCATION CODE	DP266			DP266			DP266			DP266			DP266			DP267			DP267			DP267		
			SAMPLE NO	FFOR1485			FFOR1486			FFOR1487			FFOR1488			FFOR1489			FFOR1490			FFOR1491			FFOR1492		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.78	ND	U	1.8	ND	U	1.9
	PHENANTHRENE	571	1,830	0.109	J	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	PYRENE	1,790	1,720	0.378		0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.364	ND	U	0.364	ND	U	0.35	ND	U	0.356	ND	U	0.359	ND	U	0.381
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	0.000254	J	0.0019	0.000237	J	0.00171	0.000168	J	0.00197	0.000138	J	0.00211	ND	U	0.002	0.000954	J	0.00238
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	0.000131	J	0.0019	0.000119	J	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	0.000521	J	0.00238
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	1-CHLOROHEXANE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00213	ND	UJ	0.0022	ND	UJ	0.0019	ND	UJ	0.00171	ND	UJ	0.00197	ND	UJ	0.00211	ND	UJ	0.002	ND	UJ	0.00238
	2-BUTANONE	25.5	37,100	ND	U	0.00532	ND	U	0.00549	ND	U	0.00476	ND	U	0.00428	ND	U	0.00494	ND	U	0.00527	ND	U	0.00499	ND	UJ	0.00596
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	2-HEXANONE	NE	NE	ND	U	0.00532	ND	U	0.00549	ND	U	0.00476	ND	U	0.00428	ND	U	0.00494	ND	U	0.00527	ND	U	0.00499	ND	U	0.00596
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0266	ND	UJ	0.0275	ND	UJ	0.0238	ND	UJ	0.0214	ND	UJ	0.0247	ND	UJ	0.0263	ND	UJ	0.0249	ND	UJ	0.0298
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0266	ND	U	0.0275	ND	U	0.0238	ND	U	0.0214	ND	U	0.0247	ND	U	0.0263	ND	U	0.0249	ND	U	0.0298
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00532	ND	U	0.00549	ND	U	0.00476	ND	U	0.00428	ND	U	0.00494	ND	U	0.00527	ND	U	0.00499	ND	U	0.00596
	ACETONE	77.1	66,600	0.0358		0.0266	ND	U	0.0275	0.0272		0.0238	0.0284		0.0214	ND	U	0.0247	0.039		0.0263	0.04		0.0249	0.0399		0.0298
	BENZENE	0.0345	15.4	0.000377	J	0.00213	0.00166	J	0.0022	0.00144	J	0.0019	0.000884	J	0.00171	0.000911	J	0.00197	0.000543	J	0.00211	0.000338	J	0.002	0.00291		0.00238
	BROMOBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	BROMOFORM	12.1	6,116	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	BROMOMETHANE	0.0385	16.5	ND	U	0.00213	ND	UJ	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CHLOROBENZENE	0.984	376	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CHLOROETHANE	107	29,800	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CHLOROFORM	0.00918	5.86	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CHLOROMETHANE	0.879	275	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00213	ND	U	0.0022	ND	UJ	0.0019	ND	UJ	0.00171	ND	UJ	0.00197	ND	UJ	0.00211	ND	UJ	0.002	ND	UJ	0.00238
	ETHYLBENZENE	0.26	68.4	ND	U	0.00213	0.000282	J	0.0022	0.000253	J	0.0019	0.000501	J	0.00171	0.00026	J	0.00197	ND	U	0.00211	0.000273	J	0.002	0.000762	J	0.00238
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	M,P-XYLENES	NE	NE	0.000554	J	0.00425	0.000569	J	0.00439	0.000756	J	0.00381	0.000727	J	0.00342	0.000741	J	0.00395	0.000424	J	0.00422	0.000471	J	0.00399	0.00283	J	0.00477
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00213	ND	U	0.0022	ND	UJ	0.0019	ND	UJ	0.00171	ND	UJ	0.00197	ND	UJ	0.00211	ND	UJ	0.002	ND	UJ	0.00238
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00532	ND	U	0.00549	ND	U	0.00476	ND	U	0.00428	ND	U	0.00494	ND	U	0.00527	ND	U	0.00499	ND	U	0.00596
	NAPHTHALENE	0.0713	43.0	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	N-BUTYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	N-PROPYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	O-XYLENE	3.13	898	0.00016	J	0.00213	ND	U	0.0022	0.000188	J	0.0019	0.000171	J	0.00171	0.000198	J	0.00197	ND	U	0.00211	ND	U	0.002	0.000737	J	0.00238

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP266			DP266			DP266			DP266			DP266			DP267			DP267			DP267		
			SAMPLE NO	FFOR1485			FFOR1486			FFOR1487			FFOR1488			FFOR1489			FFOR1490			FFOR1491			FFOR1492		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	STYRENE	27.7	7,280	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TOLUENE	25.3	5,270	0.000499	J	0.00213	0.000684	J	0.0022	0.00118	J	0.0019	0.00139	J	0.00171	0.0014	J	0.00197	0.000814	J	0.00211	0.000709	J	0.002	0.00417		0.00238
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	VINYL ACETATE	1.52	2,560	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00213	ND	U	0.0022	ND	U	0.0019	ND	U	0.00171	ND	U	0.00197	ND	U	0.00211	ND	U	0.002	ND	U	0.00238
	XYLENES	3.13	814	0.000714	J	0.00638	0.000569	J	0.00659	0.000944	J	0.00571	0.000898	J	0.00513	0.00094	J	0.00592	ND	U	0.00632	0.000471	J	0.00599	0.00356	J	0.00715
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	13.4		0.64	3.51		0.65	6.13		0.67	4.09		0.66	5.15		0.64	17.3		0.65	4.26		0.65	8.99		0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP267			DP267			DP267			DP268			DP268			DP268			DP268			DP268		
			SAMPLE NO	FFOR1493			FFOR1494			FFOR1495			FFOR1496			FFOR1497			FFOR1498			FFOR1499			FFOR1500		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.33	ND	U	4.55	ND	U	4.31	1.47	J	4.41	ND	U	4.4	ND	U	4.32	ND	U	4.38	ND	U	4.27
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.54	ND	U	5.14	ND	U	6.04	ND	U	5.03	ND	U	7.23	ND	U	5.3	ND	U	6.13	ND	U	4.78
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.352	ND	UJ	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.754	ND	U	0.719	ND	U	0.727	ND	U	0.724	ND	U	0.72	ND	U	0.723	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP267			DP267			DP267			DP268			DP268			DP268			DP268			DP268		
			SAMPLE NO	FFOR1493			FFOR1494			FFOR1495			FFOR1496			FFOR1497			FFOR1498			FFOR1499			FFOR1500		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.88	ND	U	1.8	ND	U	1.82	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.377	ND	U	0.359	ND	U	0.363	ND	U	0.362	ND	U	0.36	ND	U	0.361	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000373	J	0.00173	ND	U	0.00234	0.000155	J	0.00181	ND	U	0.00194	ND	U	0.00189	0.00108	J	0.0021	ND	U	0.00228	0.000434	J	0.00178
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000198	J	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	0.000662	J	0.0021	ND	U	0.00228	0.000216	J	0.00178
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	1-CHLOROHEXANE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00173	ND	UJ	0.00234	ND	UJ	0.00181	ND	UJ	0.00194	ND	UJ	0.00189	ND	UJ	0.0021	ND	UJ	0.00228	ND	UJ	0.00178
	2-BUTANONE	25.5	37,100	ND	UJ	0.00433	ND	U	0.00584	ND	U	0.00452	0.0174		0.00484	0.00801		0.00472	0.0112		0.00525	0.0134		0.0057	0.0123		0.00446
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	2-HEXANONE	NE	NE	ND	U	0.00433	ND	U	0.00584	ND	U	0.00452	ND	U	0.00484	ND	U	0.00472	ND	U	0.00525	ND	U	0.0057	ND	U	0.00446
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0216	ND	UJ	0.0292	ND	UJ	0.0226	ND	UJ	0.0242	ND	UJ	0.0236	ND	UJ	0.0263	ND	UJ	0.0285	ND	UJ	0.0223
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0216	ND	U	0.0292	ND	U	0.0226	ND	U	0.0242	ND	U	0.0236	ND	U	0.0263	ND	U	0.0285	ND	U	0.0223
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00433	ND	U	0.00584	ND	U	0.00452	ND	U	0.00484	ND	U	0.00472	ND	U	0.00525	ND	U	0.0057	ND	U	0.00446
	ACETONE	77.1	66,600	ND	U	0.0216	0.0322		0.0292	0.0328		0.0226	0.0794		0.0242	0.0347		0.0236	0.0403		0.0263	0.0558		0.0285	0.0454		0.0223
	BENZENE	0.0345	15.4	0.00125	J	0.00173	0.000326	J	0.00234	0.00144	J	0.00181	0.00121	J	0.00194	0.000948	J	0.00189	0.00423		0.0021	0.000685	J	0.00228	0.00191		0.00178
	BROMOBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	BROMOFORM	12.1	6,116	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	BROMOMETHANE	0.0385	16.5	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	UJ	0.00194	ND	UJ	0.00189	ND	UJ	0.0021	ND	UJ	0.00228	ND	UJ	0.00178
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CHLOROBENZENE	0.984	376	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CHLOROETHANE	107	29,800	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CHLOROFORM	0.00918	5.86	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CHLOROMETHANE	0.879	275	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	DICHLORODIFLUOROMETHANE	7.43	168	ND	UJ	0.00173	ND	UJ	0.00234	ND	UJ	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	ETHYLBENZENE	0.26	68.4	0.000379	J	0.00173	ND	U	0.00234	0.000296	J	0.00181	0.000285	J	0.00194	0.000333	J	0.00189	0.00097	J	0.0021	ND	U	0.00228	0.000622	J	0.00178
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	M,P-XYLENES	NE	NE	0.00105	J	0.00346	ND	U	0.00467	0.000627	J	0.00362	0.000622	J	0.00387	0.000574	J	0.00378	0.00352	J	0.0042	0.000543	J	0.00456	0.00155	J	0.00357
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00173	ND	UJ	0.00234	ND	UJ	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00433	ND	U	0.00584	ND	U	0.00452	ND	U	0.00484	ND	U	0.00472	ND	U	0.00525	ND	U	0.0057	ND	U	0.00446
	NAPHTHALENE	0.0713	43.0	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	N-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	N-PROPYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	O-XYLENE	3.13	898	0.000251	J	0.00173	ND	U	0.00234	ND	U	0.00181	0.000173	J	0.00194	0.000172	J	0.00189	0.000912	J	0.0021	ND	U	0.00228	0.000409	J	0.00178

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP267			DP267			DP267			DP268			DP268			DP268			DP268			DP268		
			SAMPLE NO	FFOR1493			FFOR1494			FFOR1495			FFOR1496			FFOR1497			FFOR1498			FFOR1499			FFOR1500		
			SAMPLE DATE	9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11			9-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	STYRENE	27.7	7,280	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TOLUENE	25.3	5,270	0.00166	J	0.00173	0.000635	J	0.00234	0.00133	J	0.00181	0.000993	J	0.00194	0.000687	J	0.00189	0.00487		0.0021	0.000629	J	0.00228	0.00257		0.00178
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	VINYL ACETATE	1.52	2,560	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00173	ND	U	0.00234	ND	U	0.00181	ND	U	0.00194	ND	U	0.00189	ND	U	0.0021	ND	U	0.00228	ND	U	0.00178
	XYLENES	3.13	814	0.0013	J	0.00519	ND	U	0.00701	0.000627	J	0.00543	0.000795	J	0.00581	0.000745	J	0.00567	0.00444	J	0.00631	0.000543	J	0.00684	0.00196	J	0.00535
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.58		0.65	5.52		0.69	4.65		0.65	4.95		0.66	4.55		0.66	7.1		0.65	5.83		0.65	4.51		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP269			DP269			DP269			DP269			DP269			DP269			DP270			DP270		
			SAMPLE NO	FFOR1501			FFOR1502			FFOR1503			FFOR1504			FFOR1505			FFOR1506			FFOR1507			FFOR1508		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	7.96		4.25	ND	U	4.46	ND	U	4.52	ND	U	4.35	ND	U	4.3	ND	U	4.32	ND	U	4.28	3.34	J	4.14
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.07	ND	U	4.99	ND	U	5.09	ND	U	5.94	ND	U	6.03	ND	U	4.79	ND	U	5.25	ND	U	6.25
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.695	ND	U	0.738	ND	U	0.746	ND	U	0.705	ND	U	0.714	ND	U	0.725	ND	U	0.697	ND	U	0.691
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	ACENAPHTHYLENE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	ANTHRACENE	5,410	17,200	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZENAMINE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	CARBAZOLE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	CHRYSENE	160	147	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	FLUORANTHENE	2,430	2,290	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP269			DP269			DP269			DP269			DP269			DP269			DP270			DP270		
			SAMPLE NO	FFOR1501			FFOR1502			FFOR1503			FFOR1504			FFOR1505			FFOR1506			FFOR1507			FFOR1508		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.85	ND	U	1.87	ND	U	1.76	ND	U	1.78	ND	U	1.81	ND	U	1.74	ND	U	1.73
	PHENANTHRENE	571	1,830	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	PYRENE	1,790	1,720	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.369	ND	U	0.373	ND	U	0.353	ND	U	0.357	ND	U	0.362	ND	U	0.348	ND	U	0.345
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	0.000787	J	0.00194	0.000541	J	0.00174	0.00034	J	0.00192	0.000361	J	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	0.000425	J	0.00194	0.000392	J	0.00174	0.00017	J	0.00192	0.000217	J	0.00202	ND	U	0.00204	ND	U	0.00189
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	1-CHLOROHEXANE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	2-BUTANONE	25.5	37,100	0.00239	J	0.00527	ND	U	0.00569	ND	U	0.00486	ND	U	0.00434	ND	U	0.00479	ND	U	0.00506	ND	U	0.0051	0.00448	J	0.00472
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	2-HEXANONE	NE	NE	ND	U	0.00527	ND	U	0.00569	ND	U	0.00486	ND	U	0.00434	ND	U	0.00479	ND	U	0.00506	ND	U	0.0051	ND	U	0.00472
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0264	ND	UJ	0.0285	ND	UJ	0.0243	ND	UJ	0.0217	ND	UJ	0.0239	ND	UJ	0.0253	ND	UJ	0.0255	ND	UJ	0.0236
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0264	ND	U	0.0285	ND	U	0.0243	ND	U	0.0217	ND	U	0.0239	ND	U	0.0253	ND	U	0.0255	ND	U	0.0236
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00527	ND	U	0.00569	ND	U	0.00486	ND	U	0.00434	ND	U	0.00479	ND	U	0.00506	ND	U	0.0051	ND	U	0.00472
	ACETONE	77.1	66,600	0.0297	J	0.0264	0.00228	J	0.0285	0.00194	J	0.0243	0.00174	J	0.0217	0.00192	J	0.0239	0.0018	J	0.0253	0.0119	J	0.0255	0.0325	J	0.0236
	BENZENE	0.0345	15.4	0.000335	J	0.00211	0.000135	J	0.00228	0.0024		0.00194	0.00278		0.00174	0.0012	J	0.00192	0.00156	J	0.00202	0.000241	J	0.00204	0.000243	J	0.00189
	BROMOBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	BROMOFORM	12.1	6,116	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	BROMOMETHANE	0.0385	16.5	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CHLOROBENZENE	0.984	376	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CHLOROETHANE	107	29,800	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CHLOROFORM	0.00918	5.86	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CHLOROMETHANE	0.879	275	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	ETHYLBENZENE	0.26	68.4	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	M,P-XYLENES	NE	NE	ND	U	0.00422	ND	U	0.00456	ND	U	0.00388	ND	U	0.00347	ND	U	0.00383	ND	U	0.00404	ND	U	0.00408	ND	U	0.00378
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00527	ND	U	0.00569	ND	U	0.00486	ND	U	0.00434	ND	U	0.00479	ND	U	0.00506	ND	U	0.0051	ND	U	0.00472
	NAPHTHALENE	0.0713	43.0	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	N-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	N-PROPYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	O-XYLENE	3.13	898	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP269			DP269			DP269			DP269			DP269			DP269			DP270			DP270		
			SAMPLE NO	FFOR1501			FFOR1502			FFOR1503			FFOR1504			FFOR1505			FFOR1506			FFOR1507			FFOR1508		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	STYRENE	27.7	7,280	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TOLUENE	25.3	5,270	ND	U	0.00211	ND	U	0.00228	0.00313		0.00194	0.00317		0.00174	0.00181	J	0.00192	0.00233		0.00202	ND	U	0.00204	ND	U	0.00189
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	VINYL ACETATE	1.52	2,560	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00211	ND	U	0.00228	ND	U	0.00194	ND	U	0.00174	ND	U	0.00192	ND	U	0.00202	ND	U	0.00204	ND	U	0.00189
	XYLENES	3.13	814	ND	U	0.00632	ND	U	0.00683	ND	U	0.00583	ND	U	0.00521	ND	U	0.00575	ND	U	0.00607	ND	U	0.00613	ND	U	0.00566
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	24.1		0.64	4.08		0.67	7.77	J	0.68	6.81		0.65	5.29		0.66	4.92		0.66	6.91		0.64	12.5		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP270			DP270			DP270			DP270			DP271			DP271			DP271			DP271		
			SAMPLE NO	FFOR1509			FFOR1510			FFOR1511			FFOR1512			FFOR1513			FFOR1514			FFOR1515			FFOR1516		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	4.12	J	4.15	ND	U	4.45	ND	U	4.49	ND	U	4.29	20.8		4.29	ND	U	4.51	ND	U	4.62	ND	U	4.27
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.63	ND	U	5.62	ND	U	6.26	ND	U	4.64	ND	U	5.29	ND	U	6.23	ND	U	5.61	ND	U	5.42
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.691	ND	U	0.737	ND	U	0.729	ND	U	0.706	ND	U	0.701	ND	U	0.749	ND	U	0.758	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	0.0358	J	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	CHRYSENE	160	147	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353

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			LOCATION CODE	DP270			DP270			DP270			DP270			DP271			DP271			DP271			DP271		
			SAMPLE NO	FFOR1509			FFOR1510			FFOR1511			FFOR1512			FFOR1513			FFOR1514			FFOR1515			FFOR1516		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.84	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.87	ND	U	1.89	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.368	ND	U	0.365	ND	U	0.353	ND	U	0.351	ND	U	0.374	ND	U	0.379	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	0.000775	J	0.00212	0.00013	J	0.00179	0.000462	J	0.00198	0.000126	J	0.00198	ND	U	0.00242	0.000136	J	0.00213	0.000342	J	0.00183
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00194	0.000389	J	0.00212	ND	U	0.00179	0.000241	J	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	0.000212	J	0.00183
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	1-CHLOROHEXANE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	2-BUTANONE	25.5	37,100	ND	U	0.00486	ND	U	0.00531	0.00161	J	0.00448	0.0084		0.00495	0.00603		0.00494	0.00524	J	0.00606	0.00583		0.00532	0.00378	J	0.00457
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	2-HEXANONE	NE	NE	ND	U	0.00486	ND	U	0.00531	ND	U	0.00448	ND	U	0.00495	ND	U	0.00494	ND	U	0.00606	ND	U	0.00532	ND	U	0.00457
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0243	ND	UJ	0.0266	ND	UJ	0.0224	ND	UJ	0.0247	ND	UJ	0.0247	ND	UJ	0.0303	ND	UJ	0.0266	ND	UJ	0.0229
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0243	ND	U	0.0266	ND	U	0.0224	ND	U	0.0247	ND	U	0.0247	ND	U	0.0303	ND	U	0.0266	ND	U	0.0229
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00486	ND	U	0.00531	ND	U	0.00448	ND	U	0.00495	ND	U	0.00494	ND	U	0.00606	ND	U	0.00532	ND	U	0.00457
	ACETONE	77.1	66,600	0.00286	J	0.0243	0.00212	J	0.0266	0.0076	J	0.0224	0.012	J	0.0247	0.00832	J	0.0247	0.0035	J	0.0303	0.0102	J	0.0266	0.00409	J	0.0229
	BENZENE	0.0345	15.4	0.000181	J	0.00194	0.00227		0.00212	0.000755	J	0.00179	0.00143	J	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	0.000999	J	0.00183
	BROMOBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	BROMOFORM	12.1	6,116	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	BROMOMETHANE	0.0385	16.5	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CHLOROBENZENE	0.984	376	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CHLOROETHANE	107	29,800	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CHLOROFORM	0.00918	5.86	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CHLOROMETHANE	0.879	275	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	UJ	0.00198	ND	UJ	0.00198	ND	UJ	0.00242	ND	UJ	0.00213	ND	UJ	0.00183
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	ETHYLBENZENE	0.26	68.4	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	0.000532	J	0.00198	ND	U	0.00198	ND	U	0.00242	0.000297	J	0.00213	0.000407	J	0.00183
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	M,P-XYLENES	NE	NE	ND	U	0.00388	ND	U	0.00425	ND	U	0.00358	0.00112	J	0.00396	ND	U	0.00395	ND	U	0.00484	ND	U	0.00426	0.00086	J	0.00366
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00486	ND	U	0.00531	ND	U	0.00448	ND	U	0.00495	ND	U	0.00494	ND	U	0.00606	ND	U	0.00532	ND	U	0.00457
	NAPHTHALENE	0.0713	43.0	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	N-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	N-PROPYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	O-XYLENE	3.13	898	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	0.000312	J	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	0.000221	J	0.00183

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			LOCATION CODE	DP270			DP270			DP270			DP270			DP271			DP271			DP271			DP271		
			SAMPLE NO	FFOR1509			FFOR1510			FFOR1511			FFOR1512			FFOR1513			FFOR1514			FFOR1515			FFOR1516		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	STYRENE	27.7	7,280	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TOLUENE	25.3	5,270	ND	U	0.00194	0.00342		0.00212	ND	U	0.00179	0.00214		0.00198	0.000352	J	0.00198	0.000373	J	0.00242	0.000625	J	0.00213	0.00142	J	0.00183
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	VINYL ACETATE	1.52	2,560	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00194	ND	U	0.00212	ND	U	0.00179	ND	U	0.00198	ND	U	0.00198	ND	U	0.00242	ND	U	0.00213	ND	U	0.00183
	XYLENES	3.13	814	ND	U	0.00583	ND	U	0.00637	ND	U	0.00538	0.00143	J	0.00594	ND	U	0.00593	ND	U	0.00727	ND	U	0.00639	0.00108	J	0.00549
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.11		0.63	6.78		0.67	6.88		0.67	5.31		0.65	9.95		0.64	4.41		0.68	3.25		1.39	6.94	J	0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP271			DP271			DP272			DP272			DP272			DP272			DP272			DP273		
		SAMPLE NO		FFOR1517			FFOR1518			FFOR1519			FFOR1520			FFOR1521			FFOR1522			FFOR1523			FFOR1524		
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.37	2.09	J	4.38	1.6	J	4.54	ND	U	4.41	ND	U	4.38	ND	U	4.3	7.73		4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.9	ND	U	5.23	ND	U	5.89	ND	U	5.82	ND	U	4.85	ND	U	5.21	ND	U	4.82	ND	U	6.37
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2-CHLOROPHENOL	2.31	391	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.725	ND	U	0.709	ND	U	0.718	ND	U	0.745	ND	U	0.725	ND	U	0.733	ND	U	0.713	ND	U	0.715
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	4-CHLOROANILINE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	ACENAPHTHYLENE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	ANTHRACENE	5,410	17,200	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZENAMINE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	CARBAZOLE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	CHRYSENE	160	147	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DIBENZOFURAN	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DIETHYL PHTHALATE	193	48,900	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	FLUORANTHENE	2,430	2,290	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	FLUORENE	406	2,290	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	ISOPHORONE	3.84	5,120	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	NAPHTHALENE	0.0713	43.0	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	NITROBENZENE	0.0125	53.5	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP271			DP271			DP272			DP272			DP272			DP272			DP272			DP273		
			SAMPLE NO	FFOR1517			FFOR1518			FFOR1519			FFOR1520			FFOR1521			FFOR1522			FFOR1523			FFOR1524		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.77	ND	U	1.79	ND	U	1.86	ND	U	1.81	ND	U	1.83	ND	U	1.78	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	PHENOL	99.5	18,300	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	PYRENE	1,790	1,720	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
	PYRIDINE	NE	NE	ND	U	0.363	ND	U	0.355	ND	U	0.359	ND	U	0.372	ND	U	0.362	ND	U	0.366	ND	U	0.357	ND	U	0.357
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00184	0.000402	J	0.00192	ND	U	0.00229	ND	U	0.00201	0.000515	J	0.00197	ND	U	0.00209	0.000313	J	0.00187	ND	U	0.00203
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00184	0.00021	J	0.00192	ND	U	0.00229	ND	U	0.00201	0.000285	J	0.00197	ND	U	0.00209	0.000151	J	0.00187	ND	U	0.00203
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	1-CHLOROHEXANE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	2-BUTANONE	25.5	37,100	0.0043	J	0.00459	0.00633		0.0048	0.00832		0.00573	0.00285	J	0.00503	0.00518		0.00491	0.00534		0.00523	0.00558		0.00467	0.00428	J	0.00507
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	2-HEXANONE	NE	NE	ND	U	0.00459	ND	U	0.0048	ND	U	0.00573	ND	U	0.00503	ND	U	0.00491	ND	U	0.00523	ND	U	0.00467	ND	U	0.00507
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0229	ND	UJ	0.024	ND	UJ	0.0286	ND	UJ	0.0252	ND	UJ	0.0246	ND	UJ	0.0261	ND	UJ	0.0233	ND	UJ	0.0253
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0229	ND	U	0.024	ND	U	0.0286	ND	U	0.0252	ND	U	0.0246	ND	U	0.0261	ND	U	0.0233	ND	U	0.0253
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00459	ND	U	0.0048	ND	U	0.00573	ND	U	0.00503	ND	U	0.00491	ND	U	0.00523	ND	U	0.00467	ND	U	0.00507
	ACETONE	77.1	66,600	0.00568	J	0.0229	0.0126	J	0.024	0.0419		0.0286	0.00378	J	0.0252	0.0076	J	0.0246	0.0086	J	0.0261	0.0117	J	0.0233	0.0082	J	0.0253
	BENZENE	0.0345	15.4	0.000745	J	0.00184	0.00119	J	0.00192	ND	U	0.00229	ND	U	0.00201	0.00141	J	0.00197	ND	U	0.00209	0.00145	J	0.00187	ND	U	0.00203
	BROMOBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	BROMOFORM	12.1	6,116	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	BROMOMETHANE	0.0385	16.5	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CHLOROBENZENE	0.984	376	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CHLOROETHANE	107	29,800	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CHLOROFORM	0.00918	5.86	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	0.000227	J	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CHLOROMETHANE	0.879	275	ND	UJ	0.00184	ND	UJ	0.00192	ND	UJ	0.00229	ND	UJ	0.00201	ND	UJ	0.00197	ND	UJ	0.00209	ND	UJ	0.00187	ND	UJ	0.00203
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	ETHYLBENZENE	0.26	68.4	ND	U	0.00184	0.000518	J	0.00192	ND	U	0.00229	ND	U	0.00201	0.000622	J	0.00197	ND	U	0.00209	0.000336	J	0.00187	ND	U	0.00203
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	M,P-XYLENES	NE	NE	ND	U	0.00367	0.00104	J	0.00384	ND	U	0.00458	ND	U	0.00403	0.00127	J	0.00393	ND	U	0.00418	0.000814	J	0.00373	ND	U	0.00405
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00459	ND	U	0.0048	ND	U	0.00573	ND	U	0.00503	ND	U	0.00491	ND	U	0.00523	ND	U	0.00467	ND	U	0.00507
	NAPHTHALENE	0.0713	43.0	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	N-BUTYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	N-PROPYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	O-XYLENE	3.13	898	ND	U	0.00184	0.000286	J	0.00192	ND	U	0.00229	ND	U	0.00201	0.000296	J	0.00197	ND	U	0.00209	0.000189	J	0.00187	ND	U	0.00203

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP271			DP271			DP272			DP272			DP272			DP272			DP272			DP272			DP273		
		SAMPLE NO		FFOR1517			FFOR1518			FFOR1519			FFOR1520			FFOR1521			FFOR1522			FFOR1523			FFOR1524				
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11				
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG				
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT				
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	STYRENE	27.7	7,280	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TOLUENE	25.3	5,270	0.000391	J	0.00184	0.00195		0.00192	0.000499	J	0.00229	0.000545	J	0.00201	0.00227		0.00197	0.000384	J	0.00209	0.00145	J	0.00187	0.000382	J	0.00203
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	VINYL ACETATE	1.52	2,560	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00184	ND	U	0.00192	ND	U	0.00229	ND	U	0.00201	ND	U	0.00197	ND	U	0.00209	ND	U	0.00187	ND	U	0.00203
	XYLENES	3.13	814	ND	U	0.00551	0.00132	J	0.00576	ND	U	0.00687	ND	U	0.00604	0.00157	J	0.0059	ND	U	0.00627	0.001	J	0.0056	ND	U	0.00608
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.73		0.66	5.63		0.66	7.1		0.66	4.22		0.68	6.29		0.66	4.69		0.67	5.12		0.65	8.29		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP273			DP273			DP273			DP273			DP273			DP274			DP274			DP274		
		SAMPLE NO		FFOR1525			FFOR1526			FFOR1527			FFOR1528			FFOR1529			FFOR1530			FFOR1531			FFOR1532		
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.36	ND	U	4.4	ND	U	4.3	ND	U	4.26	ND	U	4.15	3.89	J	4.27	ND	U	4.62	ND	U	4.44
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.35	ND	U	4.93	ND	U	7.98	ND	U	4.46	ND	U	5.99	ND	U	7.22	ND	U	5.54	ND	U	4.94
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.712	ND	U	0.719	ND	U	0.705	ND	U	0.713	ND	U	0.692	ND	U	0.714	ND	U	0.761	ND	U	0.721
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	0.449		0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	FLUORANTHENE	2,430	2,290	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP273			DP273			DP273			DP273			DP273			DP274			DP274			DP274		
			SAMPLE NO	FFOR1525			FFOR1526			FFOR1527			FFOR1528			FFOR1529			FFOR1530			FFOR1531			FFOR1532		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.8	ND	U	1.76	ND	U	1.78	ND	U	1.73	ND	U	1.79	ND	U	1.9	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	PYRENE	1,790	1,720	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.359	ND	U	0.352	ND	U	0.356	ND	U	0.346	ND	U	0.357	ND	U	0.381	ND	U	0.36
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00244	0.000586	J	0.002	0.000154	J	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00244	0.000379	J	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	1-CHLOROHEXANE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	2-BUTANONE	25.5	37,100	0.00433	J	0.00609	0.0066		0.005	0.00467	J	0.00516	ND	U	0.00597	ND	U	0.00484	ND	U	0.00584	ND	U	0.00571	ND	U	0.00466
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	2-HEXANONE	NE	NE	ND	U	0.00609	ND	U	0.005	ND	U	0.00516	ND	U	0.00597	ND	U	0.00484	ND	U	0.00584	ND	U	0.00571	ND	U	0.00466
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0305	ND	UJ	0.025	ND	UJ	0.0258	ND	UJ	0.0298	ND	UJ	0.0242	ND	UJ	0.0292	ND	UJ	0.0285	ND	UJ	0.0233
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0305	ND	U	0.025	ND	U	0.0258	ND	U	0.0298	ND	U	0.0242	ND	U	0.0292	ND	U	0.0285	ND	U	0.0233
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00609	ND	U	0.005	ND	U	0.00516	ND	U	0.00597	ND	U	0.00484	ND	U	0.00584	ND	U	0.00571	ND	U	0.00466
	ACETONE	77.1	66,600	0.00447	J	0.0305	0.0153	J	0.025	0.00971	J	0.0258	0.00252	J	0.0298	0.00193	J	0.0242	0.00234	J	0.0292	0.00228	J	0.0285	0.00187	J	0.0233
	BENZENE	0.0345	15.4	ND	U	0.00244	0.00194	J	0.002	ND	U	0.00206	0.00039	J	0.00239	0.000583	J	0.00193	0.00026	J	0.00234	ND	U	0.00228	0.000485	J	0.00187
	BROMOBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	BROMOFORM	12.1	6,116	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	BROMOMETHANE	0.0385	16.5	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CHLOROBENZENE	0.984	376	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CHLOROETHANE	107	29,800	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CHLOROFORM	0.00918	5.86	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	0.000342	J	0.00187
	CHLOROMETHANE	0.879	275	ND	UJ	0.00244	ND	UJ	0.002	ND	UJ	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	ETHYLBENZENE	0.26	68.4	ND	U	0.00244	0.000651	J	0.002	ND	U	0.00206	0.000433	J	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	M,P-XYLENES	NE	NE	ND	U	0.00487	0.00165	J	0.004	0.000417	J	0.00413	ND	U	0.00477	ND	U	0.00387	ND	U	0.00467	ND	U	0.00457	0.000418	J	0.00373
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00609	ND	U	0.005	ND	U	0.00516	ND	U	0.00597	ND	U	0.00484	ND	U	0.00584	ND	U	0.00571	ND	U	0.00466
	NAPHTHALENE	0.0713	43.0	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	N-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	N-PROPYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	O-XYLENE	3.13	898	ND	U	0.00244	0.000415	J	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP273			DP273			DP273			DP273			DP273			DP274			DP274			DP274		
			SAMPLE NO	FFOR1525			FFOR1526			FFOR1527			FFOR1528			FFOR1529			FFOR1530			FFOR1531			FFOR1532		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	STYRENE	27.7	7,280	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TOLUENE	25.3	5,270	0.00034	J	0.00244	0.00288		0.002	0.000825	J	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	VINYL ACETATE	1.52	2,560	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00244	ND	U	0.002	ND	U	0.00206	ND	U	0.00239	ND	U	0.00193	ND	U	0.00234	ND	U	0.00228	ND	U	0.00187
	XYLENES	3.13	814	ND	U	0.00731	0.00206	J	0.006	ND	U	0.00619	ND	U	0.00716	ND	U	0.0058	ND	U	0.00701	ND	U	0.00685	0.000418	J	0.0056
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.83		0.66	6.83		0.66	7.27		0.65	4.49		0.65	4.31		0.63	12.6		0.65	3.49		1.39	7.49		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP274			DP274			DP275			DP275			DP275			DP275			DP275			DP275		
			SAMPLE NO	FFOR1533			FFOR1534			FFOR1535			FFOR1536			FFOR1537			FFOR1538			FFOR1539			FFOR1540		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.72	J	4.31	ND	U	4.33	230		21.1	155		20.9	64.9		4.48	99.4		8.62	30.6		4.27	3.73	J	4.3
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.79	1.44	J	5.61	ND	U	5.14	ND	U	4.96	79.6	J	5.48	911		58.9	377		78.7	274		46.1
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	UJ	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	0.111	J	0.364	0.231	J	0.353	ND	U	0.351	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.711	ND	U	0.703	ND	U	0.694	ND	U	0.69	ND	U	0.728	ND	U	0.707	ND	U	0.702	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	0.0404	J	0.364	0.0429	J	0.353	0.0301	J	0.351	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	0.0425	J	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	0.0604	J	0.364	0.0523	J	0.353	0.0338	J	0.351	0.0387	J	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP274			DP274			DP275			DP275			DP275			DP275			DP275			DP275		
			SAMPLE NO	FFOR1533			FFOR1534			FFOR1535			FFOR1536			FFOR1537			FFOR1538			FFOR1539			FFOR1540		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.76	ND	U	1.73	ND	U	1.72	ND	U	1.82	ND	U	1.77	ND	U	1.75	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	0.332	J	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.355	ND	U	0.352	ND	U	0.347	ND	U	0.345	ND	U	0.364	ND	U	0.353	ND	U	0.351	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0019	0.000518	J	0.00167	ND	U	0.00232	0.000168	J	0.00174	1.7		0.113	11.9	J	0.213	7.73		0.18	6.55		0.214
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0019	0.000198	J	0.00167	ND	U	0.00232	ND	U	0.00174	0.897		0.113	4.72	J	0.213	3.07		0.18	2.67		0.214
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	1-CHLOROHEXANE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	2-BUTANONE	25.5	37,100	ND	U	0.00474	ND	U	0.00418	0.00438	J	0.00579	ND	U	0.00435	ND	U	0.283	ND	U	0.532	ND	U	0.45	ND	U	0.535
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	2-HEXANONE	NE	NE	ND	U	0.00474	ND	U	0.00418	ND	U	0.00579	ND	U	0.00435	ND	U	0.283	ND	U	0.532	ND	U	0.45	ND	U	0.535
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0237	ND	UJ	0.0209	ND	UJ	0.029	ND	UJ	0.0217	ND	UJ	1.41	ND	UJ	2.66	ND	UJ	2.25	ND	UJ	2.67
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0237	ND	U	0.0209	ND	U	0.029	ND	U	0.0217	ND	U	1.41	ND	U	2.66	ND	U	2.25	ND	U	2.67
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00474	ND	U	0.00418	ND	U	0.00579	ND	U	0.00435	ND	U	0.283	ND	U	0.532	ND	U	0.45	ND	U	0.535
	ACETONE	77.1	66,600	0.0019	J	0.0237	0.00427	J	0.0209	0.0255	J	0.029	0.00216	J	0.0217	ND	U	1.41	ND	U	2.66	ND	U	2.25	ND	U	2.67
	BENZENE	0.0345	15.4	ND	U	0.0019	0.000444	J	0.00167	ND	U	0.00232	0.000094	J	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	BROMOBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	BROMOFORM	12.1	6,116	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	BROMOMETHANE	0.0385	16.5	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	**0.0714**	J	0.113	ND	U	0.213	**0.0851**	J	0.18	**0.0825**	J	0.214
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CHLOROBENZENE	0.984	376	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CHLOROETHANE	107	29,800	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CHLOROFORM	0.00918	5.86	0.000485	J	0.0019	0.000338	J	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CHLOROMETHANE	0.879	275	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	ETHYLBENZENE	0.26	68.4	ND	U	0.0019	0.000237	J	0.00167	ND	U	0.00232	ND	U	0.00174	0.0614	J	0.113	**1.11**	J	0.213	**0.896**		0.18	**0.651**		0.214
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	0.16		0.113	1.43	J	0.213	1.05		0.18	0.893		0.214
	M,P-XYLENES	NE	NE	ND	U	0.00379	0.00038	J	0.00334	ND	U	0.00463	ND	U	0.00348	0.395		0.226	3.7	J	0.426	2.84		0.36	2.23		0.428
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00474	ND	U	0.00418	ND	U	0.00579	ND	U	0.00435	ND	U	0.283	ND	U	0.532	ND	U	0.45	ND	U	0.535
	NAPHTHALENE	0.0713	43.0	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	**0.714**		0.113	**1.72**	J	0.213	**1.34**		0.18	**1.35**		0.214
	N-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	0.537		0.113	3.66	J	0.213	2.48		0.18	2.22		0.214
	N-PROPYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	0.294		0.113	4.05	J	0.213	2.68		0.18	2.22		0.214
	O-XYLENE	3.13	898	ND	U	0.0019	0.000122	J	0.00167	ND	U	0.00232	ND	U	0.00174	0.423		0.113	**3.18**	J	0.213	2.23		0.18	1.83		0.214

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP274			DP274			DP275			DP275			DP275			DP275			DP275			DP275		
		SAMPLE NO		FFOR1533			FFOR1534			FFOR1535			FFOR1536			FFOR1537			FFOR1538			FFOR1539			FFOR1540		
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	1.32	J	0.213	0.854		0.18	0.811		0.214
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	0.397		0.113	2.85	J	0.213	1.92		0.18	1.7		0.214
	STYRENE	27.7	7,280	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TOLUENE	25.3	5,270	ND	U	0.0019	0.000866	J	0.00167	ND	U	0.00232	0.000272	J	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	VINYL ACETATE	1.52	2,560	ND	U	0.0019	ND	U	0.00167	ND	U	0.00232	ND	U	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0019	ND	UJ	0.00167	ND	U	0.00232	ND	UJ	0.00174	ND	U	0.113	ND	U	0.213	ND	U	0.18	ND	U	0.214
	XYLENES	3.13	814	ND	U	0.00569	0.000503	J	0.00501	ND	U	0.00695	ND	U	0.00522	0.817		0.339	**6.88**	J	0.639	**5.06**		0.54	**4.06**		0.642
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.68		0.64	6.14		0.65	22		0.64	23.6		0.64	8.5		0.67	6.13		0.65	6.48		0.64	6.64		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP276			DP276			DP276			DP276			DP276			DP277			DP277			DP277		
			SAMPLE NO	FFOR1541			FFOR1542			FFOR1543			FFOR1544			FFOR1545			FFOR1546			FFOR1547			FFOR1548		
			SAMPLE DATE	10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	32.3		4.18	138		21.3	564		43.6	137		8.57	59.9		4.25	10.8		4.25	178		21.3	22		4.25
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	3.86	J	5.38	98.9	J	5.23	1010	J	49.2	858		58.1	572		48.5	ND	U	5.54	ND	U	6.26	ND	U	6.3
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.346	ND	UJ	0.357	ND	UJ	0.361	ND	UJ	0.357	ND	UJ	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.357	0.897		0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.346	ND	U	0.357	0.102	J	0.361	0.0357	J	0.357	ND	U	0.349	0.0159	J	0.349	ND	U	0.346	ND	U	0.353
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.693	ND	U	0.713	ND	U	0.722	ND	U	0.714	ND	U	0.699	ND	U	0.699	ND	U	0.693	ND	U	0.705
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	ANTHRACENE	5,410	17,200	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BENZENAMINE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	0.349	J	0.349	ND	U	0.346	ND	U	0.353
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	CARBAZOLE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	CHRYSENE	160	147	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	DIBENZOFURAN	NE	NE	ND	U	0.346	0.0284	J	0.357	ND	U	0.361	0.0337	J	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.357	ND	U	0.361	0.0267	J	0.357	0.0265	J	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	FLUORANTHENE	2,430	2,290	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	3.46	ND	U	0.353
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	NAPHTHALENE	0.0713	43.0	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP276			DP276			DP276			DP276			DP276			DP277			DP277			DP277		
		SAMPLE NO		FFOR1541			FFOR1542			FFOR1543			FFOR1544			FFOR1545			FFOR1546			FFOR1547			FFOR1548		
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.78	ND	U	1.81	ND	U	1.78	ND	U	1.75	ND	U	1.75	ND	U	1.73	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.346	ND	U	0.357	ND	U	0.361	0.013	J	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	PYRENE	1,790	1,720	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.357	ND	U	0.361	ND	U	0.357	ND	U	0.349	ND	U	0.349	ND	U	0.346	ND	U	0.353
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000127	J	0.00184	0.0242		0.00201	6.53		0.436	14.5		0.535	6.39		0.183	ND	U	0.00225	0.000236	J	0.00203	ND	U	0.00204
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	UJ	0.00225	ND	U	0.00203	ND	UJ	0.00204
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00184	0.0651		0.00201	6.02		0.436	6.92		0.535	2.71		0.183	ND	U	0.00225	ND	U	0.00203	0.00013	J	0.00204
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	1-CHLOROHEXANE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	2-BUTANONE	25.5	37,100	ND	U	0.0046	0.0734		0.00502	0.864	J	1.09	ND	U	1.34	ND	U	0.459	ND	U	0.00562	0.0197		0.00508	ND	U	0.00509
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	2-HEXANONE	NE	NE	ND	U	0.0046	ND	U	0.00502	ND	U	1.09	ND	U	1.34	ND	U	0.459	ND	U	0.00562	ND	U	0.00508	ND	U	0.00509
	2-PROPENAL	0.000146	0.404	ND	UJ	0.023	ND	UJ	0.0251	ND	UJ	5.45	ND	UJ	6.69	ND	UJ	2.29	ND	U	0.0281	ND	UJ	0.0254	ND	U	0.0254
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.023	ND	U	0.0251	ND	U	5.45	ND	U	6.69	ND	U	2.29	ND	U	0.0281	ND	U	0.0254	ND	U	0.0254
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0046	ND	U	0.00502	ND	U	1.09	ND	U	1.34	ND	U	0.459	ND	U	0.00562	ND	U	0.00508	ND	U	0.00509
	ACETONE	77.1	66,600	0.00495	J	0.023	0.183		0.0251	1.79	J	5.45	ND	U	6.69	ND	U	2.29	0.0107	J	0.0281	0.0558		0.0254	0.0151	J	0.0254
	BENZENE	0.0345	15.4	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	0.00101	J	0.00225	ND	U	0.00203	0.000698	J	0.00204
	BROMOBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	BROMOFORM	12.1	6,116	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	BROMOMETHANE	0.0385	16.5	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CHLOROBENZENE	0.984	376	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CHLOROETHANE	107	29,800	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CHLOROFORM	0.00918	5.86	ND	U	0.00184	0.000265	J	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CHLOROMETHANE	0.879	275	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	UJ	0.00203	ND	U	0.00204
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	ETHYLBENZENE	0.26	68.4	ND	U	0.00184	0.00361		0.00201	**0.783**		0.436	**1.69**		0.535	**0.707**		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00184	ND	U	0.00201	1.04		0.436	2.05		0.535	0.867		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	M,P-XYLENES	NE	NE	ND	U	0.00368	0.0145		0.00402	3.92		0.872	6.53		1.07	2.44		0.367	ND	U	0.0045	ND	U	0.00407	ND	U	0.00407
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0046	ND	U	0.00502	ND	U	1.09	ND	U	1.34	ND	U	0.459	ND	U	0.00562	ND	U	0.00508	ND	U	0.00509
	NAPHTHALENE	0.0713	43.0	ND	U	0.00184	0.0322		0.00201	**5.37**		0.436	**3.48**		0.535	**1.34**		0.183	ND	U	0.00225	0.00163	J	0.00203	ND	U	0.00204
	N-BUTYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	3.32		0.436	4.08		0.535	1.77		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	N-PROPYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	2.81		0.436	5.21		0.535	2.03		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	O-XYLENE	3.13	898	ND	U	0.00184	0.0162		0.00201	**3.64**		0.436	**5.35**		0.535	1.98		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP276			DP276			DP276			DP276			DP276			DP277			DP277			DP277		
		SAMPLE NO		FFOR1541			FFOR1542			FFOR1543			FFOR1544			FFOR1545			FFOR1546			FFOR1547			FFOR1548		
		SAMPLE DATE		10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			10-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	1.6		0.535	0.624		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00184	0.0115		0.00201	4.17		0.436	4.6		0.535	1.8		0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	STYRENE	27.7	7,280	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TOLUENE	25.3	5,270	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	0.000588	J	0.00203	ND	U	0.00204
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	VINYL ACETATE	1.52	2,560	ND	U	0.00184	ND	U	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	VINYL CHLORIDE	0.00108	0.728	ND	UJ	0.00184	ND	UJ	0.00201	ND	U	0.436	ND	U	0.535	ND	U	0.183	ND	U	0.00225	ND	U	0.00203	ND	U	0.00204
	XYLENES	3.13	814	ND	U	0.00552	0.0307		0.00603	**7.56**		1.31	**11.9**		1.61	**4.42**		0.55	ND	U	0.00675	ND	U	0.0061	ND	U	0.00611
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.39		0.63	5.17		0.64	6.78		0.66	4.49		0.65	5.82		0.64	6.64		0.64	17.4		0.64	6.74		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP277			DP277			DP277			DP278			DP278			DP278			DP278			DP278		
			SAMPLE NO	FFOR1549			FFOR1550			FFOR1551			FFOR1552			FFOR1553			FFOR1554			FFOR1555			FFOR1556		
			SAMPLE DATE	11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	17.3		4.22	1.6	J	4.26	6.13		4.25	7.4		4.23	14.2		4.41	ND	U	4.34	ND	U	4.36	ND	U	4.26
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.09	ND	U	5.01	ND	U	4.97	ND	U	6.25	ND	U	5.36	ND	U	5.4	ND	U	5.21	ND	U	4.72
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.706	ND	U	0.699	ND	U	0.7	ND	U	0.705	ND	U	0.723	ND	U	0.724	ND	U	0.722	ND	U	0.704
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.349	ND	U	0.35	0.163	J	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP277			DP277			DP277			DP278			DP278			DP278			DP278			DP278		
			SAMPLE NO	FFOR1549			FFOR1550			FFOR1551			FFOR1552			FFOR1553			FFOR1554			FFOR1555			FFOR1556		
			SAMPLE DATE	11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.75	ND	U	1.75	ND	U	1.76	ND	U	1.81	ND	U	1.81	ND	U	1.81	ND	U	1.76
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.349	ND	U	0.35	ND	U	0.353	ND	U	0.361	ND	U	0.362	ND	U	0.361	ND	U	0.352
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	0.000152	J	0.00245	0.000311	J	0.00212	0.000155	J	0.00218	0.000395	J	0.00178
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	UJ	0.00202	ND	UJ	0.00218	ND	UJ	0.00206	ND	UJ	0.00237	ND	UJ	0.00245	ND	UJ	0.00212	ND	UJ	0.00218	ND	UJ	0.00178
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	0.000283	J	0.00206	ND	U	0.00237	ND	U	0.00245	0.000147	J	0.00212	ND	U	0.00218	0.00023	J	0.00178
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	2-BUTANONE	25.5	37,100	ND	U	0.00504	ND	U	0.00544	ND	U	0.00515	ND	U	0.00593	ND	U	0.00612	ND	U	0.0053	ND	U	0.00545	ND	U	0.00446
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	2-HEXANONE	NE	NE	ND	U	0.00504	ND	U	0.00544	ND	U	0.00515	ND	U	0.00593	ND	U	0.00612	ND	U	0.0053	ND	U	0.00545	ND	U	0.00446
	2-PROPENAL	0.000146	0.404	ND	U	0.0252	ND	U	0.0272	ND	U	0.0258	ND	UJ	0.0297	ND	UJ	0.0306	ND	UJ	0.0265	ND	UJ	0.0272	ND	UJ	0.0223
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0252	ND	U	0.0272	ND	U	0.0258	ND	U	0.0297	ND	U	0.0306	ND	U	0.0265	ND	U	0.0272	ND	U	0.0223
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00504	ND	U	0.00544	ND	U	0.00515	ND	U	0.00593	ND	U	0.00612	ND	U	0.0053	ND	U	0.00545	ND	U	0.00446
	ACETONE	77.1	66,600	0.021	J	0.0252	0.00623	J	0.0272	0.0224	J	0.0258	ND	UJ	0.0297	ND	UJ	0.0306	0.00216	J	0.0265	ND	UJ	0.0272	ND	UJ	0.0223
	BENZENE	0.0345	15.4	0.00068	J	0.00202	0.000345	J	0.00218	0.00185	J	0.00206	0.000288	J	0.00237	0.00024	J	0.00245	0.000686	J	0.00212	0.000454	J	0.00218	0.00147	J	0.00178
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	0.000175	J	0.00218	0.000417	J	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	BROMOMETHANE	0.0385	16.5	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CHLOROFORM	0.00918	5.86	ND	U	0.00202	ND	U	0.00218	0.000551	J	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.00218	0.000252	J	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	ETHYLBENZENE	0.26	68.4	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	M,P-XYLENES	NE	NE	ND	U	0.00403	ND	U	0.00435	ND	U	0.00412	ND	U	0.00475	ND	U	0.0049	ND	U	0.00424	ND	U	0.00436	ND	U	0.00357
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00504	ND	U	0.00544	ND	U	0.00515	ND	U	0.00593	ND	U	0.00612	ND	U	0.0053	ND	U	0.00545	ND	U	0.00446
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	0.000184	J	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	O-XYLENE	3.13	898	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP277			DP277			DP277			DP278			DP278			DP278			DP278			DP278		
			SAMPLE NO	FFOR1549			FFOR1550			FFOR1551			FFOR1552			FFOR1553			FFOR1554			FFOR1555			FFOR1556		
			SAMPLE DATE	11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11			11-Aug-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TOLUENE	25.3	5,270	ND	U	0.00202	ND	U	0.00218	0.00299		0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	0.00221		0.00178
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.00218	ND	U	0.00206	ND	U	0.00237	ND	U	0.00245	ND	U	0.00212	ND	U	0.00218	ND	U	0.00178
	XYLENES	3.13	814	ND	U	0.00605	ND	U	0.00653	ND	U	0.00618	ND	U	0.00712	ND	U	0.00735	ND	U	0.00636	ND	U	0.00654	ND	U	0.00535
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	8.7		0.64	5.48		0.64	5.51		0.64	5.27		0.64	4.14		0.66	7.78		0.66	4.81		0.66	5.39		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP279			DP279			DP279			DP279			DP279			DP279			DP280			DP280		
		SAMPLE NO		FFOR1557			FFOR1558			FFOR1559			FFOR1560			FFOR1561			FFOR1562			FFOR1563			FFOR1564		
		SAMPLE DATE		1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.24	ND	U	4.32	ND	U	4.37	ND	U	4.35	ND	U	4.35	ND	U	4.35	ND	U	4.26	ND	U	4.31
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.81	ND	U	5.13	ND	U	4.89	ND	U	8.08	0.733	J	5.26	ND	U	4.53	0.734	J	5.02	ND	U	5.31
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.704	ND	U	0.715	ND	U	0.721	ND	U	0.717	ND	U	0.718	ND	U	0.706	ND	U	0.714	ND	U	0.723
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP279			DP279			DP279			DP279			DP279			DP279			DP280			DP280		
			SAMPLE NO	FFOR1557			FFOR1558			FFOR1559			FFOR1560			FFOR1561			FFOR1562			FFOR1563			FFOR1564		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.79	ND	U	1.8	ND	U	1.79	ND	U	1.79	ND	U	1.76	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.358	ND	U	0.36	ND	U	0.359	ND	U	0.359	ND	U	0.353	ND	U	0.357	ND	U	0.361
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	0.000878	J	0.00178	0.000396	J	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	0.000513	J	0.00178	0.000215	J	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	1-CHLOROHEXANE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.002	ND	UJ	0.00186	ND	U	0.00178	ND	U	0.00185	ND	UJ	0.00216	ND	UJ	0.00241	ND	U	0.0021	ND	UJ	0.00233
	2-BUTANONE	25.5	37,100	ND	U	0.00501	ND	U	0.00466	ND	U	0.00445	ND	U	0.00463	ND	U	0.00539	ND	U	0.00601	ND	U	0.00525	ND	U	0.00581
	2-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	2-HEXANONE	NE	NE	ND	U	0.00501	ND	U	0.00466	ND	U	0.00445	ND	U	0.00463	ND	U	0.00539	ND	U	0.00601	ND	U	0.00525	ND	U	0.00581
	2-PROPENAL	0.000146	0.404	ND	UJ	0.025	ND	UJ	0.0233	ND	UJ	0.0222	ND	UJ	0.0231	ND	UJ	0.027	ND	UJ	0.0301	ND	UJ	0.0263	ND	UJ	0.0291
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.025	ND	U	0.0233	ND	U	0.0222	ND	U	0.0231	ND	U	0.027	ND	U	0.0301	ND	U	0.0263	ND	U	0.0291
	4-CHLOROTOLUENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00501	ND	U	0.00466	ND	U	0.00445	ND	U	0.00463	ND	U	0.00539	ND	U	0.00601	ND	U	0.00525	ND	U	0.00581
	ACETONE	77.1	66,600	0.00946	J	0.025	0.0108	J	0.0233	0.00789	J	0.0222	0.00674	J	0.0231	0.0169	J	0.027	0.0228	J	0.0301	0.00662	J	0.0263	0.0204	J	0.0291
	BENZENE	0.0345	15.4	0.000243	J	0.002	0.00019	J	0.00186	0.00295		0.00178	0.00116	J	0.00185	0.000475	J	0.00216	0.000668	J	0.00241	ND	U	0.0021	0.000174	J	0.00233
	BROMOBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	BROMOFORM	12.1	6,116	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	BROMOMETHANE	0.0385	16.5	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CARBON DISULFIDE	5.65	1,530	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CHLOROBENZENE	0.984	376	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CHLOROETHANE	107	29,800	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CHLOROFORM	0.00918	5.86	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CHLOROMETHANE	0.879	275	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	ETHYLBENZENE	0.26	68.4	ND	U	0.002	ND	U	0.00186	0.00065	J	0.00178	0.000357	J	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	M,P-XYLENES	NE	NE	ND	U	0.004	ND	U	0.00373	0.00236	J	0.00356	0.000926	J	0.0037	ND	U	0.00431	0.000441	J	0.00481	ND	U	0.0042	ND	U	0.00465
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.002	ND	UJ	0.00186	ND	U	0.00178	ND	U	0.00185	ND	UJ	0.00216	ND	UJ	0.00241	ND	U	0.0021	ND	UJ	0.00233
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00501	ND	U	0.00466	ND	U	0.00445	ND	U	0.00463	ND	U	0.00539	ND	U	0.00601	ND	U	0.00525	ND	U	0.00581
	NAPHTHALENE	0.0713	43.0	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	N-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	N-PROPYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	0.000156	J	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	O-XYLENE	3.13	898	ND	U	0.002	ND	U	0.00186	0.000608	J	0.00178	0.000243	J	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233

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			LOCATION CODE	DP279			DP279			DP279			DP279			DP279			DP279			DP280			DP280		
			SAMPLE NO	FFOR1557			FFOR1558			FFOR1559			FFOR1560			FFOR1561			FFOR1562			FFOR1563			FFOR1564		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	UJ	0.002	ND	UJ	0.00186	ND	U	0.00178	ND	U	0.00185	ND	UJ	0.00216	ND	UJ	0.00241	ND	U	0.0021	ND	UJ	0.00233
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	STYRENE	27.7	7,280	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TOLUENE	25.3	5,270	ND	U	0.002	ND	U	0.00186	0.00369		0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	0.002	ND	UJ	0.00186	ND	U	0.00178	ND	U	0.00185	ND	UJ	0.00216	ND	UJ	0.00241	ND	U	0.0021	ND	UJ	0.00233
	VINYL ACETATE	1.52	2,560	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.002	ND	U	0.00186	ND	U	0.00178	ND	U	0.00185	ND	U	0.00216	ND	U	0.00241	ND	U	0.0021	ND	U	0.00233
	XYLENES	3.13	814	ND	U	0.00601	ND	U	0.00559	0.00297	J	0.00534	0.00117	J	0.00555	ND	U	0.00647	ND	U	0.00722	ND	U	0.0063	ND	U	0.00698
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.7		0.64	3.23		0.65	6.78	J-	0.66	5.95		0.65	4.35		0.65	4.17		0.65	3.33		0.65	3.48		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP280			DP280			DP280			DP280			DP281			DP281			DP281			DP281		
		SAMPLE NO		FFOR1565			FFOR1566			FFOR1567			FFOR1568			FFOR1569			FFOR1570			FFOR1571			FFOR1572		
		SAMPLE DATE		1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.34	ND	U	4.6	ND	U	4.62	ND	U	4.33	ND	U	4.38	ND	U	4.33	ND	U	4.33	ND	U	4.38
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.88	ND	U	5.97	ND	U	4.96	ND	U	4.73	ND	U	5.44	ND	U	4.7	ND	U	4.68	ND	U	5.4
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,4-DINITROPHENOL	1.26	122	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2-CHLOROPHENOL	2.31	391	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	2-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.728	ND	U	0.76	ND	U	0.774	ND	U	0.715	ND	U	0.711	ND	U	0.715	ND	U	0.707	ND	U	0.723
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	3-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	4-CHLOROANILINE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	4-NITROANILINE	NE	NE	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	UJ	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	ACENAPHTHYLENE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	ANTHRACENE	5,410	17,200	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZENAMINE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	CARBAZOLE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	CHRYSENE	160	147	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DIBENZOFURAN	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DIETHYL PHTHALATE	193	48,900	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	FLUORANTHENE	2,430	2,290	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	FLUORENE	406	2,290	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	ISOPHORONE	3.84	5,120	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	NAPHTHALENE	0.0713	43.0	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	NITROBENZENE	0.0125	53.5	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP280			DP280			DP280			DP280			DP281			DP281			DP281			DP281		
		SAMPLE NO		FFOR1565			FFOR1566			FFOR1567			FFOR1568			FFOR1569			FFOR1570			FFOR1571			FFOR1572		
		SAMPLE DATE		1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.82	ND	U	1.9	ND	U	1.94	ND	U	1.79	ND	U	1.78	ND	U	1.79	ND	U	1.77	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	PHENOL	99.5	18,300	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	PYRENE	1,790	1,720	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
	PYRIDINE	NE	NE	ND	U	0.364	ND	U	0.38	ND	U	0.387	ND	U	0.357	ND	U	0.355	ND	U	0.357	ND	U	0.353	ND	U	0.362
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00238	0.00127	J	0.00283	0.0014	J	0.00231	0.000196	J	0.00189	ND	U	0.00196	0.000235	J	0.00206	0.000217	J	0.00184	0.000605	J	0.00205
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00238	0.0007	J	0.00283	0.000916	J	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	0.000105	J	0.00184	0.00035	J	0.00205
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	1-CHLOROHEXANE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00238	ND	UJ	0.00283	ND	UJ	0.00231	ND	UJ	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	2-BUTANONE	25.5	37,100	ND	U	0.00594	ND	U	0.00709	ND	U	0.00578	ND	U	0.00473	0.0035	J	0.0049	0.000664	J	0.00516	0.00183	J	0.00461	ND	U	0.00513
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	2-HEXANONE	NE	NE	ND	U	0.00594	ND	U	0.00709	ND	U	0.00578	ND	U	0.00473	ND	U	0.0049	ND	U	0.00516	ND	U	0.00461	ND	U	0.00513
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0297	ND	UJ	0.0354	ND	UJ	0.0289	ND	UJ	0.0237	ND	UJ	0.0245	ND	UJ	0.0258	ND	UJ	0.023	ND	UJ	0.0257
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0297	ND	U	0.0354	ND	U	0.0289	ND	U	0.0237	ND	U	0.0245	ND	U	0.0258	ND	U	0.023	ND	U	0.0257
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00594	ND	U	0.00709	ND	U	0.00578	ND	U	0.00473	ND	U	0.0049	ND	U	0.00516	ND	U	0.00461	ND	U	0.00513
	ACETONE	77.1	66,600	0.0131	J	0.0297	0.0223	J	0.0354	0.0101	J	0.0289	0.00784	J	0.0237	0.0151	J	0.0245	0.0132	J	0.0258	0.0101	J	0.023	0.0156	J	0.0257
	BENZENE	0.0345	15.4	0.000391	J	0.00238	0.00349		0.00283	0.00513		0.00231	0.000567	J	0.00189	ND	U	0.00196	0.000849	J	0.00206	0.000625	J	0.00184	0.00311		0.00205
	BROMOBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	BROMOFORM	12.1	6,116	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	BROMOMETHANE	0.0385	16.5	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	UJ	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CHLOROBENZENE	0.984	376	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CHLOROETHANE	107	29,800	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CHLOROFORM	0.00918	5.86	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CHLOROMETHANE	0.879	275	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	ETHYLBENZENE	0.26	68.4	ND	U	0.00238	0.000959	J	0.00283	0.00109	J	0.00231	0.000352	J	0.00189	ND	U	0.00196	0.000294	J	0.00206	0.000284	J	0.00184	0.000561	J	0.00205
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	M,P-XYLENES	NE	NE	ND	U	0.00475	0.0032	J	0.00567	0.00373	J	0.00463	0.000476	J	0.00379	ND	U	0.00392	0.000471	J	0.00413	0.000391	J	0.00368	0.00172	J	0.00411
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00238	ND	UJ	0.00283	ND	UJ	0.00231	ND	UJ	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00594	ND	U	0.00709	ND	U	0.00578	ND	U	0.00473	ND	U	0.0049	ND	U	0.00516	ND	U	0.00461	ND	U	0.00513
	NAPHTHALENE	0.0713	43.0	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	N-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	N-PROPYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	0.000114	J	0.00206	ND	U	0.00184	ND	U	0.00205
	O-XYLENE	3.13	898	ND	U	0.00238	0.000871	J	0.00283	0.000906	J	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	0.000484	J	0.00205

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP280			DP280			DP280			DP280			DP281			DP281			DP281			DP281		
			SAMPLE NO	FFOR1565			FFOR1566			FFOR1567			FFOR1568			FFOR1569			FFOR1570			FFOR1571			FFOR1572		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	UJ	0.00238	ND	UJ	0.00283	ND	UJ	0.00231	ND	UJ	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	STYRENE	27.7	7,280	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	0.000252	J	0.00206	ND	U	0.00184	ND	U	0.00205
	TOLUENE	25.3	5,270	ND	U	0.00238	0.00543		0.00283	0.0065		0.00231	ND	U	0.00189	ND	U	0.00196	0.00118	J	0.00206	ND	U	0.00184	0.00309		0.00205
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	UJ	0.00238	ND	UJ	0.00283	ND	UJ	0.00231	ND	UJ	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	VINYL ACETATE	1.52	2,560	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00238	ND	U	0.00283	ND	U	0.00231	ND	U	0.00189	ND	U	0.00196	ND	U	0.00206	ND	U	0.00184	ND	U	0.00205
	XYLENES	3.13	814	ND	U	0.00713	0.00407	J	0.0085	0.00463	J	0.00694	0.000476	J	0.00568	ND	U	0.00587	0.000584	J	0.00619	ND	U	0.00553	0.0022	J	0.00616
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.06		0.66	7.53		0.69	9.41		0.7	4.57		0.64	3.64		0.65	4.35		0.64	5.31		0.65	6.26	J-	0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP281			DP281			DP282			DP282			DP282			DP282			DP282			DP283		
			SAMPLE NO	FFOR1573			FFOR1574			FFOR1575			FFOR1576			FFOR1577			FFOR1578			FFOR1579			FFOR1580		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.34	ND	U	4.39	ND	U	4.62	ND	U	4.34	ND	U	4.43	ND	U	4.46	ND	U	4.23	ND	U	4.3
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.16	ND	U	6.85	ND	U	4.96	ND	U	5.23	ND	U	6.08	ND	U	4.21	ND	U	4.12	ND	U	6.26
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.719	ND	U	0.725	ND	U	0.75	ND	U	0.725	ND	U	0.734	ND	U	0.724	ND	U	0.709	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	UJ	1.8	ND	UJ	1.81	ND	UJ	1.87	ND	UJ	1.81	ND	UJ	1.83	ND	UJ	1.81	ND	UJ	1.77	ND	UJ	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP281			DP281			DP282			DP282			DP282			DP282			DP282			DP283		
			SAMPLE NO	FFOR1573			FFOR1574			FFOR1575			FFOR1576			FFOR1577			FFOR1578			FFOR1579			FFOR1580		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.81	ND	U	1.87	ND	U	1.81	ND	U	1.83	ND	U	1.81	ND	U	1.77	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.362	ND	U	0.375	ND	U	0.363	ND	U	0.367	ND	U	0.362	ND	U	0.354	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000974	J	0.00208	0.000178	J	0.00236	ND	U	0.00227	ND	U	0.00199	0.00163	J	0.00225	0.000175	J	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000547	J	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	0.000946	J	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	1-CHLOROHEXANE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	2-BUTANONE	25.5	37,100	0.00371	J	0.0052	0.00298	J	0.0059	ND	U	0.00568	ND	U	0.00499	0.002	J	0.00562	0.000843	J	0.00528	ND	U	0.0044	0.00179	J	0.00531
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	2-HEXANONE	NE	NE	ND	U	0.0052	ND	U	0.0059	ND	U	0.00568	ND	U	0.00499	ND	U	0.00562	ND	U	0.00528	ND	U	0.0044	ND	U	0.00531
	2-PROPENAL	0.000146	0.404	ND	UJ	0.026	ND	UJ	0.0295	ND	UJ	0.0284	ND	UJ	0.0249	ND	UJ	0.0281	ND	UJ	0.0264	ND	UJ	0.022	ND	UJ	0.0265
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.026	ND	U	0.0295	ND	U	0.0284	ND	U	0.0249	ND	U	0.0281	ND	U	0.0264	ND	U	0.022	ND	U	0.0265
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0052	ND	U	0.0059	ND	U	0.00568	ND	U	0.00499	ND	U	0.00562	ND	U	0.00528	ND	U	0.0044	ND	U	0.00531
	ACETONE	77.1	66,600	0.0122	J	0.026	0.0132	J	0.0295	0.00691	J	0.0284	0.00799	J	0.0249	0.0132	J	0.0281	0.0107	J	0.0264	0.0051	J	0.022	0.00636	J	0.0265
	BENZENE	0.0345	15.4	0.00338		0.00208	0.000688	J	0.00236	0.000516	J	0.00227	0.000355	J	0.00199	0.00464		0.00225	0.00157	J	0.00211	0.000451	J	0.00176	ND	U	0.00212
	BROMOBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	BROMOFORM	12.1	6,116	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	BROMOMETHANE	0.0385	16.5	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	UJ	0.00212
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CHLOROBENZENE	0.984	376	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CHLOROETHANE	107	29,800	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CHLOROFORM	0.00918	5.86	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CHLOROMETHANE	0.879	275	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	ETHYLBENZENE	0.26	68.4	0.000898	J	0.00208	0.000316	J	0.00236	ND	U	0.00227	ND	U	0.00199	0.00116	J	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	M,P-XYLENES	NE	NE	0.00254	J	0.00416	ND	U	0.00472	ND	U	0.00455	ND	U	0.00399	0.00456		0.00449	0.000486	J	0.00422	ND	U	0.00352	ND	U	0.00424
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0052	ND	U	0.0059	ND	U	0.00568	ND	U	0.00499	ND	U	0.00562	ND	U	0.00528	ND	U	0.0044	ND	U	0.00531
	NAPHTHALENE	0.0713	43.0	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	N-BUTYLBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	N-PROPYLBENZENE	NE	NE	0.000159	J	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	0.000274	J	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	O-XYLENE	3.13	898	0.000677	J	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	0.00126	J	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP281			DP281			DP282			DP282			DP282			DP282			DP282			DP283		
		SAMPLE NO		FFOR1573			FFOR1574			FFOR1575			FFOR1576			FFOR1577			FFOR1578			FFOR1579			FFOR1580		
		SAMPLE DATE		1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	STYRENE	27.7	7,280	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TOLUENE	25.3	5,270	0.00436		0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	0.00746		0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	VINYL ACETATE	1.52	2,560	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00208	ND	U	0.00236	ND	U	0.00227	ND	U	0.00199	ND	U	0.00225	ND	U	0.00211	ND	U	0.00176	ND	U	0.00212
	XYLENES	3.13	814	0.00322	J	0.00624	ND	U	0.00708	ND	U	0.00682	ND	U	0.00598	0.00582	J	0.00674	0.000486	J	0.00634	ND	U	0.00528	ND	U	0.00637
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.43	J	0.65	5.38	J	0.65	3.21	J	1.39	4.96	J	0.66	6.47	J	0.67	5.62	J	0.66	4.03	J	0.64	3.89	J	0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP283			DP283			DP283			DP283			DP283			DP284			DP284			DP284		
			SAMPLE NO	FFOR1581			FFOR1582			FFOR1583			FFOR1584			FFOR1585			FFOR1586			FFOR1587			FFOR1588		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.41	J	4.26	ND	U	4.37	ND	U	4.36	ND	U	4.36	ND	U	4.37	ND	U	4.3	2.59	J	4.27	ND	U	4.22
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.16	ND	U	4.83	ND	U	4.62	ND	U	4.83	ND	U	4.33	ND	U	5.18	0.74	J	5.05	ND	U	5.3
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.702	ND	U	0.711	ND	U	0.72	ND	U	0.72	ND	U	0.719	ND	U	0.709	ND	U	0.693	ND	U	0.699
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	4-NITROANILINE	NE	NE	ND	UJ	1.76	ND	UJ	1.78	ND	UJ	1.8	ND	UJ	1.8	ND	UJ	1.8	ND	UJ	1.77	ND	UJ	1.73	ND	UJ	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP283			DP283			DP283			DP283			DP283			DP284			DP284			DP284		
			SAMPLE NO	FFOR1581			FFOR1582			FFOR1583			FFOR1584			FFOR1585			FFOR1586			FFOR1587			FFOR1588		
			SAMPLE DATE	1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.78	ND	U	1.8	ND	U	1.8	ND	U	1.8	ND	U	1.77	ND	U	1.73	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.356	ND	U	0.36	ND	U	0.36	ND	U	0.36	ND	U	0.355	ND	U	0.347	ND	U	0.349
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00201	0.000566	J	0.00175	0.000593	J	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	0.000459	J	0.00204
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00201	0.000352	J	0.00175	0.000323	J	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	0.000203	J	0.00204
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	1-CHLOROHEXANE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	2-BUTANONE	25.5	37,100	ND	U	0.00502	ND	U	0.00437	0.00109	J	0.00501	0.000982	J	0.00473	ND	U	0.00527	ND	U	0.00514	ND	U	0.00593	ND	U	0.00511
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	2-HEXANONE	NE	NE	ND	U	0.00502	ND	U	0.00437	ND	U	0.00501	ND	U	0.00473	ND	U	0.00527	ND	U	0.00514	ND	U	0.00593	ND	U	0.00511
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0251	ND	UJ	0.0219	ND	UJ	0.0251	ND	UJ	0.0236	ND	UJ	0.0263	ND	UJ	0.0257	ND	UJ	0.0297	ND	UJ	0.0255
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0251	ND	U	0.0219	ND	U	0.0251	ND	U	0.0236	ND	U	0.0263	ND	U	0.0257	ND	U	0.0297	ND	U	0.0255
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00502	ND	U	0.00437	ND	U	0.00501	ND	U	0.00473	ND	U	0.00527	ND	U	0.00514	ND	U	0.00593	ND	U	0.00511
	ACETONE	77.1	66,600	0.00721	J	0.0251	0.00533	J	0.0219	0.00709	J	0.0251	0.00555	J	0.0236	0.00442	J	0.0263	0.00812	J	0.0257	0.012	J	0.0297	0.0123	J	0.0255
	BENZENE	0.0345	15.4	0.00031	J	0.00201	0.00191		0.00175	0.00187	J	0.00201	0.000398	J	0.00189	0.000435	J	0.00211	ND	U	0.00206	ND	U	0.00237	0.00106	J	0.00204
	BROMOBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	BROMOFORM	12.1	6,116	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	BROMOMETHANE	0.0385	16.5	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CHLOROBENZENE	0.984	376	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CHLOROETHANE	107	29,800	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CHLOROFORM	0.00918	5.86	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CHLOROMETHANE	0.879	275	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	ETHYLBENZENE	0.26	68.4	ND	U	0.00201	0.000488	J	0.00175	0.000411	J	0.00201	0.000218	J	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	0.000304	J	0.00204
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	M,P-XYLENES	NE	NE	ND	U	0.00402	0.00148	J	0.0035	0.00144	J	0.00401	ND	U	0.00378	ND	U	0.00421	ND	U	0.00411	ND	U	0.00475	0.00103	J	0.00409
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00502	ND	U	0.00437	ND	U	0.00501	ND	U	0.00473	ND	U	0.00527	ND	U	0.00514	ND	U	0.00593	ND	U	0.00511
	NAPHTHALENE	0.0713	43.0	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	N-BUTYLBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	N-PROPYLBENZENE	NE	NE	ND	U	0.00201	0.000098	J	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	O-XYLENE	3.13	898	ND	U	0.00201	0.000378	J	0.00175	0.000347	J	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	0.000264	J	0.00204

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP283			DP283			DP283			DP283			DP283			DP284			DP284			DP284		
		SAMPLE NO		FFOR1581			FFOR1582			FFOR1583			FFOR1584			FFOR1585			FFOR1586			FFOR1587			FFOR1588		
		SAMPLE DATE		1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11			1-Aug-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	STYRENE	27.7	7,280	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TOLUENE	25.3	5,270	ND	U	0.00201	0.00253		0.00175	0.00236		0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	VINYL ACETATE	1.52	2,560	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00201	ND	U	0.00175	ND	U	0.00201	ND	U	0.00189	ND	U	0.00211	ND	U	0.00206	ND	U	0.00237	ND	U	0.00204
	XYLENES	3.13	814	ND	U	0.00602	0.00185	J	0.00525	0.00179	J	0.00602	ND	U	0.00567	ND	U	0.00632	ND	U	0.00617	ND	U	0.00712	0.00129	J	0.00613
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	2.78	J	0.64	6.14	J	0.65	5.83	J	0.65	6.49	J	0.65	4.65	J	0.66	3.35	J	0.64	3.36	J	0.64	4.08	J	0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP284			DP284			DP285			DP285			DP285			DP285			DP285			DP285		
			SAMPLE NO	FFOR1589			FFOR1590			FFOR1591			FFOR1592			FFOR1593			FFOR1594			FFOR1595			FFOR1596		
			SAMPLE DATE	1-Aug-11			1-Aug-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	ND	U	4.29	ND	U	4.22	2.47	J	4.25	2.37	J	4.44	2.38	J	4.29	3.61	J	4.33	2.82	J	4.46
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	0.698	J	4.6	1.02	J	5.98	ND	U	4.5	ND	U	4.97	ND	U	4.42	ND	U	3.73	ND	U	6.44	ND	U	5.12
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	UJ	0.351	ND	UJ	0.36	ND	UJ	0.36	ND	UJ	0.357	ND	UJ	0.362
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,4-DINITROPHENOL	1.26	122	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	2-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.707	ND	U	0.701	ND	U	0.694	ND	U	0.702	ND	U	0.721	ND	U	0.719	ND	U	0.714	ND	U	0.724
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	3-NITROANILINE	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	4-NITROANILINE	NE	NE	ND	UJ	1.77	ND	UJ	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZENAMINE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP284			DP284			DP285			DP285			DP285			DP285			DP285			DP285		
			SAMPLE NO	FFOR1589			FFOR1590			FFOR1591			FFOR1592			FFOR1593			FFOR1594			FFOR1595			FFOR1596		
			SAMPLE DATE	1-Aug-11			1-Aug-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.77	ND	U	1.75	ND	U	1.73	ND	U	1.75	ND	U	1.8	ND	U	1.8	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.351	ND	U	0.347	ND	U	0.351	ND	U	0.36	ND	U	0.36	ND	U	0.357	ND	U	0.362
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00166	ND	U	0.00178	ND	UJ	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000312	J	0.00166	ND	U	0.00178	ND	U	0.00206	0.000187	J	0.00279	0.000749	J	0.00194	ND	U	0.00203	0.000167	J	0.00205	0.000242	J	0.00197
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000156	J	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	0.000498	J	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	1-CHLOROHEXANE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	2-BUTANONE	25.5	37,100	ND	U	0.00415	ND	U	0.00444	ND	U	0.00516	ND	U	0.00696	ND	U	0.00486	0.00676		0.00508	ND	U	0.00513	0.00385	J	0.00492
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	2-HEXANONE	NE	NE	ND	U	0.00415	ND	U	0.00444	ND	U	0.00516	ND	U	0.00696	ND	U	0.00486	ND	U	0.00508	ND	U	0.00513	ND	U	0.00492
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0208	ND	UJ	0.0222	ND	UJ	0.0258	ND	UJ	0.0348	ND	UJ	0.0243	ND	UJ	0.0254	ND	UJ	0.0257	ND	UJ	0.0246
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0208	ND	U	0.0222	ND	U	0.0258	ND	U	0.0348	ND	U	0.0243	ND	U	0.0254	ND	U	0.0257	ND	U	0.0246
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00415	ND	U	0.00444	ND	U	0.00516	ND	U	0.00696	ND	U	0.00486	ND	U	0.00508	ND	U	0.00513	ND	U	0.00492
	ACETONE	77.1	66,600	0.0107	J	0.0208	0.00842	J	0.0222	0.0133	J	0.0258	0.0272	J	0.0348	0.00898	J	0.0243	0.0241	J	0.0254	0.0134	J	0.0257	0.0174	J	0.0246
	BENZENE	0.0345	15.4	0.00133	J	0.00166	ND	U	0.00178	0.0007	J	0.00206	0.000721	J	0.00279	0.00232		0.00194	0.000574	J	0.00203	0.000621	J	0.00205	0.000843	J	0.00197
	BROMOBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	BROMOFORM	12.1	6,116	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	BROMOMETHANE	0.0385	16.5	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CHLOROBENZENE	0.984	376	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CHLOROETHANE	107	29,800	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CHLOROFORM	0.00918	5.86	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CHLOROMETHANE	0.879	275	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	ETHYLBENZENE	0.26	68.4	0.000337	J	0.00166	0.000206	J	0.00178	ND	U	0.00206	ND	U	0.00279	0.00064	J	0.00194	ND	U	0.00203	ND	U	0.00205	0.000334	J	0.00197
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00166	ND	U	0.00178	ND	UJ	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	M,P-XYLENES	NE	NE	0.000819	J	0.00332	0.000325	J	0.00355	ND	U	0.00413	ND	U	0.00557	0.00204	J	0.00389	ND	U	0.00407	ND	U	0.00411	0.000479	J	0.00394
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00415	ND	U	0.00444	ND	U	0.00516	ND	U	0.00696	ND	U	0.00486	ND	U	0.00508	ND	U	0.00513	ND	U	0.00492
	NAPHTHALENE	0.0713	43.0	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	N-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	N-PROPYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	O-XYLENE	3.13	898	0.000214	J	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	0.000683	J	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP284			DP284			DP285			DP285			DP285			DP285			DP285			DP285		
		SAMPLE NO		FFOR1589			FFOR1590			FFOR1591			FFOR1592			FFOR1593			FFOR1594			FFOR1595			FFOR1596		
		SAMPLE DATE		1-Aug-11			1-Aug-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	STYRENE	27.7	7,280	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TOLUENE	25.3	5,270	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	0.0035		0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	VINYL ACETATE	1.52	2,560	ND	U	0.00166	ND	U	0.00178	ND	UJ	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00166	ND	U	0.00178	ND	U	0.00206	ND	U	0.00279	ND	U	0.00194	ND	U	0.00203	ND	U	0.00205	ND	U	0.00197
	XYLENES	3.13	814	0.00103	J	0.00498	ND	U	0.00533	ND	U	0.00619	ND	U	0.00836	0.00273	J	0.00583	ND	U	0.0061	ND	U	0.00616	0.000479	J	0.00591
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.97	J	0.64	3.81		0.64	3.68	J-	0.63	3.84		0.65	6.37		0.67	5.1		0.65	4.56		0.66	4.69		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP286			DP286			DP286			DP286			DP286			DP287			DP287			DP287		
			SAMPLE NO	FFOR1597			FFOR1598			FFOR1599			FFOR1600			FFOR1601			FFOR1602			FFOR1603			FFOR1604		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.53	J	4.3	2.56	J	4.4	ND	U	4.38	2.8	J	4.37	2.4	J	4.37	3.44	J	4.48	3.22	J	4.31	ND	U	4.42
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.07	ND	U	6.08	ND	U	5.57	ND	U	5.55	ND	U	5.95	ND	U	4.81	ND	U	2.69	ND	U	5.54
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.35	ND	UJ	0.357	ND	UJ	0.367	ND	UJ	0.361	ND	UJ	0.36	ND	UJ	0.367	ND	U	0.35	ND	U	0.365
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2-CHLOROPHENOL	2.31	391	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.699	ND	U	0.713	ND	U	0.735	ND	U	0.721	ND	U	0.721	ND	U	0.734	ND	U	0.7	ND	U	0.729
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	4-CHLOROANILINE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	ACENAPHTHYLENE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	ANTHRACENE	5,410	17,200	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZENAMINE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	0.0928	J	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	CARBAZOLE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	CHRYSENE	160	147	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DIBENZOFURAN	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DIETHYL PHTHALATE	193	48,900	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	FLUORANTHENE	2,430	2,290	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	FLUORENE	406	2,290	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	ISOPHORONE	3.84	5,120	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	NAPHTHALENE	0.0713	43.0	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	NITROBENZENE	0.0125	53.5	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP286			DP286			DP286			DP286			DP286			DP287			DP287			DP287		
			SAMPLE NO	FFOR1597			FFOR1598			FFOR1599			FFOR1600			FFOR1601			FFOR1602			FFOR1603			FFOR1604		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.78	ND	U	1.84	ND	U	1.8	ND	U	1.8	ND	U	1.83	ND	U	1.75	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	PHENOL	99.5	18,300	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	PYRENE	1,790	1,720	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
	PYRIDINE	NE	NE	ND	U	0.35	ND	U	0.357	ND	U	0.367	ND	U	0.361	ND	U	0.36	ND	U	0.367	ND	U	0.35	ND	U	0.365
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	0.00112	J	0.00205	0.000201	J	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	0.000556	J	0.00185
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	0.000658	J	0.00205	0.000115	J	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	0.000333	J	0.00185
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	1-CHLOROHEXANE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	UJ	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	2-BUTANONE	25.5	37,100	ND	U	0.00506	0.00262	J	0.00575	0.00309	J	0.00513	0.00139	J	0.004	ND	U	0.00464	ND	U	0.00661	0.00295	J	0.00691	0.00372	J	0.00463
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	2-HEXANONE	NE	NE	ND	U	0.00506	ND	U	0.00575	ND	U	0.00513	ND	U	0.004	ND	U	0.00464	ND	U	0.00661	ND	U	0.00691	ND	U	0.00463
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0253	ND	UJ	0.0287	ND	UJ	0.0257	ND	UJ	0.02	ND	UJ	0.0232	ND	UJ	0.0331	ND	UJ	0.0345	ND	UJ	0.0231
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0253	ND	UJ	0.0287	ND	UJ	0.0257	ND	UJ	0.02	ND	U	0.0232	ND	UJ	0.0331	ND	UJ	0.0345	ND	UJ	0.0231
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00506	ND	U	0.00575	ND	U	0.00513	ND	U	0.004	ND	U	0.00464	ND	U	0.00661	ND	U	0.00691	ND	U	0.00463
	ACETONE	77.1	66,600	0.0143	J	0.0253	0.006	J	0.0287	0.00832	J	0.0257	0.00457	J	0.02	0.0131	J	0.0232	0.00508	J	0.0331	0.0093	J	0.0345	0.00724	J	0.0231
	BENZENE	0.0345	15.4	0.000407	J	0.00202	0.000263	J	0.0023	0.00313		0.00205	0.00098	J	0.0016	0.000755	J	0.00185	0.000197	J	0.00265	0.000249	J	0.00276	0.00171	J	0.00185
	BROMOBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	BROMOFORM	12.1	6,116	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	BROMOMETHANE	0.0385	16.5	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CHLOROBENZENE	0.984	376	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CHLOROETHANE	107	29,800	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CHLOROFORM	0.00918	5.86	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CHLOROMETHANE	0.879	275	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	ETHYLBENZENE	0.26	68.4	ND	U	0.00202	ND	U	0.0023	0.0008	J	0.00205	0.00029	J	0.0016	0.000266	J	0.00185	ND	U	0.00265	ND	U	0.00276	0.000493	J	0.00185
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	M,P-XYLENES	NE	NE	ND	U	0.00405	ND	U	0.0046	0.00269	J	0.00411	0.000488	J	0.0032	0.000383	J	0.00371	ND	U	0.00529	ND	U	0.00553	0.00151	J	0.0037
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	UJ	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00506	ND	U	0.00575	ND	U	0.00513	ND	U	0.004	ND	U	0.00464	ND	U	0.00661	ND	U	0.00691	ND	U	0.00463
	NAPHTHALENE	0.0713	43.0	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	N-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	N-PROPYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	O-XYLENE	3.13	898	ND	U	0.00202	ND	U	0.0023	0.000755	J	0.00205	0.000138	J	0.0016	0.00024	J	0.00185	ND	U	0.00265	ND	U	0.00276	0.000383	J	0.00185

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			LOCATION CODE	DP286			DP286			DP286			DP286			DP286			DP287			DP287			DP287		
			SAMPLE NO	FFOR1597			FFOR1598			FFOR1599			FFOR1600			FFOR1601			FFOR1602			FFOR1603			FFOR1604		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	STYRENE	27.7	7,280	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TOLUENE	25.3	5,270	ND	U	0.00202	0.000809	J	0.0023	0.00444		0.00205	0.00103	J	0.0016	ND	U	0.00185	0.0004	J	0.00265	0.000572	J	0.00276	0.0026		0.00185
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	UJ	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	VINYL ACETATE	1.52	2,560	ND	U	0.00202	ND	UJ	0.0023	ND	UJ	0.00205	ND	UJ	0.0016	ND	U	0.00185	ND	UJ	0.00265	ND	UJ	0.00276	ND	UJ	0.00185
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00202	ND	U	0.0023	ND	U	0.00205	ND	U	0.0016	ND	U	0.00185	ND	U	0.00265	ND	U	0.00276	ND	U	0.00185
	XYLENES	3.13	814	ND	U	0.00607	ND	U	0.0069	0.00344	J	0.00616	0.000626	J	0.0048	0.000624	J	0.00556	ND	U	0.00794	ND	U	0.00829	0.0019	J	0.00555
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.82		0.64	4.48		0.66	5.74		0.67	5.11		0.66	4.68		0.65	3.56		0.67	3.78		0.65	6.6		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP287			DP287			DP287			DP288			DP288			DP288			DP288			DP288		
			SAMPLE NO	FFOR1605			FFOR1606			FFOR1607			FFOR1608			FFOR1609			FFOR1610			FFOR1611			FFOR1612		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.26	ND	U	4.28	ND	U	4.25	ND	U	4.44	ND	U	4.23	ND	U	4.4	ND	U	4.43	ND	U	4.3
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.07	ND	U	5.11	ND	U	4.29	ND	U	6.45	ND	U	8.67	ND	U	5.27	ND	U	5.45	ND	U	5.47
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.706	ND	U	0.701	ND	U	0.732	ND	U	0.709	ND	U	0.727	ND	U	0.731	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP287			DP287			DP287			DP288			DP288			DP288			DP288			DP288		
			SAMPLE NO	FFOR1605			FFOR1606			FFOR1607			FFOR1608			FFOR1609			FFOR1610			FFOR1611			FFOR1612		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.77	ND	U	1.75	ND	U	1.83	ND	U	1.77	ND	U	1.82	ND	U	1.83	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.353	ND	U	0.351	ND	U	0.366	ND	U	0.355	ND	U	0.363	ND	U	0.366	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000733	J	0.00228	0.000326	J	0.00208	0.000241	J	0.00174	ND	U	0.00241	0.000352	J	0.00341	0.00126	J	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000434	J	0.00228	0.000158	J	0.00208	0.000115	J	0.00174	ND	U	0.00241	0.000202	J	0.00341	0.000761	J	0.00298	ND	U	0.00226	ND	U	0.0018
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	1-CHLOROHEXANE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	2-BUTANONE	25.5	37,100	0.00104	J	0.0057	0.00208	J	0.00519	0.000672	J	0.00434	ND	U	0.00603	0.0126		0.00853	0.0109		0.00746	0.00668		0.00564	0.00612		0.0045
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	2-HEXANONE	NE	NE	ND	U	0.0057	ND	U	0.00519	ND	U	0.00434	ND	U	0.00603	ND	U	0.00853	ND	U	0.00746	ND	U	0.00564	ND	U	0.0045
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0285	ND	UJ	0.026	ND	UJ	0.0217	ND	UJ	0.0301	ND	UJ	0.0427	ND	UJ	0.0373	ND	UJ	0.0282	ND	UJ	0.0225
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0285	ND	UJ	0.026	ND	UJ	0.0217	ND	UJ	0.0301	ND	UJ	0.0427	ND	UJ	0.0373	ND	UJ	0.0282	ND	UJ	0.0225
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0057	ND	U	0.00519	ND	U	0.00434	ND	U	0.00603	ND	U	0.00853	ND	U	0.00746	ND	U	0.00564	ND	U	0.0045
	ACETONE	77.1	66,600	0.00871	J	0.0285	0.0138	J	0.026	0.0083	J	0.0217	0.00454	J-	0.0301	0.0231	J	0.0427	0.013	J	0.0373	0.00828	J	0.0282	0.00824	J	0.0225
	BENZENE	0.0345	15.4	0.00292		0.00228	0.00153	J	0.00208	0.0013	J	0.00174	ND	U	0.00241	0.00154	J	0.00341	0.00406		0.00298	ND	U	0.00226	0.000617	J	0.0018
	BROMOBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	BROMOFORM	12.1	6,116	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	BROMOMETHANE	0.0385	16.5	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CHLOROBENZENE	0.984	376	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CHLOROETHANE	107	29,800	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CHLOROFORM	0.00918	5.86	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CHLOROMETHANE	0.879	275	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	ETHYLBENZENE	0.26	68.4	0.000733	J	0.00228	0.000692	J	0.00208	0.000405	J	0.00174	ND	U	0.00241	0.000517	J	0.00341	0.000974	J	0.00298	ND	U	0.00226	ND	U	0.0018
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	M,P-XYLENES	NE	NE	0.00214	J	0.00456	0.000748	J	0.00416	0.000608	J	0.00347	ND	U	0.00482	0.00117	J	0.00683	0.00318	J	0.00597	ND	U	0.00451	ND	U	0.0036
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0057	ND	U	0.00519	ND	U	0.00434	ND	U	0.00603	ND	U	0.00853	ND	U	0.00746	ND	U	0.00564	ND	U	0.0045
	NAPHTHALENE	0.0713	43.0	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	N-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	N-PROPYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	O-XYLENE	3.13	898	0.000574	J	0.00228	0.000241	J	0.00208	0.000148	J	0.00174	ND	U	0.00241	ND	U	0.00341	0.000864	J	0.00298	ND	U	0.00226	ND	U	0.0018

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP287			DP287			DP287			DP288			DP288			DP288			DP288			DP288		
		SAMPLE NO		FFOR1605			FFOR1606			FFOR1607			FFOR1608			FFOR1609			FFOR1610			FFOR1611			FFOR1612		
		SAMPLE DATE		29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	STYRENE	27.7	7,280	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TOLUENE	25.3	5,270	0.00382		0.00228	0.00194	J	0.00208	0.00137	J	0.00174	0.000577	J	0.00241	0.00244	J	0.00341	0.00548		0.00298	0.000506	J	0.00226	0.000767	J	0.0018
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00228	ND	UJ	0.00208	ND	UJ	0.00174	ND	UJ	0.00241	ND	UJ	0.00341	ND	UJ	0.00298	ND	UJ	0.00226	ND	UJ	0.0018
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00228	ND	U	0.00208	ND	U	0.00174	ND	U	0.00241	ND	U	0.00341	ND	U	0.00298	ND	U	0.00226	ND	U	0.0018
	XYLENES	3.13	814	0.00272	J	0.00684	0.000989	J	0.00623	0.000755	J	0.00521	ND	U	0.00723	0.00117	J	0.0102	0.00405	J	0.00895	ND	U	0.00677	ND	U	0.0054
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.69		0.64	4.47		0.64	4.38		0.64	3.29		0.67	5.22		0.64	6.05		0.66	4.54		0.66	4.62		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP289			DP289			DP289			DP289			DP289			DP289			DP290			DP290		
			SAMPLE NO	FFOR1613			FFOR1614			FFOR1615			FFOR1616			FFOR1617			FFOR1618			FFOR1619			FFOR1620		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.52	ND	U	4.42	2.5	J	4.42	ND	U	4.23	ND	U	4.29	ND	U	4.3	1.55	J	4.63	ND	U	4.52
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.59	ND	U	5.8	ND	U	6.35	ND	U	5.93	ND	U	7.87	ND	U	5.91	ND	U	5.77	ND	U	5.79
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	UJ	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	UJ	0.382	ND	UJ	0.38
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,4-DINITROPHENOL	1.26	122	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2-CHLOROPHENOL	2.31	391	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	2-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	2-NITROPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.734	ND	U	0.729	ND	U	0.729	ND	U	0.699	ND	U	0.709	ND	U	0.71	ND	U	0.764	ND	U	0.759
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	3-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	4-CHLOROANILINE	NE	NE	ND	U	0.367	ND	U	0.364	ND	UJ	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	4-NITROANILINE	NE	NE	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	4-NITROPHENOL	NE	NE	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	ACENAPHTHENE	338	3,440	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	ACENAPHTHYLENE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	ANTHRACENE	5,410	17,200	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZENAMINE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	CARBAZOLE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	CHRYSENE	160	147	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DIBENZOFURAN	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DIETHYL PHTHALATE	193	48,900	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	FLUORANTHENE	2,430	2,290	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	FLUORENE	406	2,290	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	ISOPHORONE	3.84	5,120	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	NAPHTHALENE	0.0713	43.0	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	NITROBENZENE	0.0125	53.5	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP289			DP289			DP289			DP289			DP289			DP289			DP290			DP290		
			SAMPLE NO	FFOR1613			FFOR1614			FFOR1615			FFOR1616			FFOR1617			FFOR1618			FFOR1619			FFOR1620		
			SAMPLE DATE	29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.83	ND	U	1.82	ND	U	1.82	ND	U	1.75	ND	U	1.77	ND	U	1.78	ND	U	1.91	ND	U	1.9
	PHENANTHRENE	571	1,830	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	PHENOL	99.5	18,300	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	PYRENE	1,790	1,720	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
	PYRIDINE	NE	NE	ND	U	0.367	ND	U	0.364	ND	U	0.365	ND	U	0.349	ND	U	0.354	ND	U	0.355	ND	U	0.382	ND	U	0.38
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	0.000704	J	0.00253	ND	U	0.00251	ND	U	0.00304	0.000203	J	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	0.000389	J	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	1-CHLOROHEXANE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	2-BUTANONE	25.5	37,100	0.0118		0.0106	0.00859		0.00752	0.0015	J	0.00634	0.0101		0.00629	0.013		0.0076	0.00561		0.0047	0.0055		0.00543	0.00564	J	0.00568
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	2-HEXANONE	NE	NE	ND	U	0.0106	ND	U	0.00752	ND	U	0.00634	ND	U	0.00629	ND	U	0.0076	ND	U	0.0047	ND	U	0.00543	ND	U	0.00568
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0529	ND	UJ	0.0376	ND	UJ	0.0317	ND	UJ	0.0314	ND	UJ	0.038	ND	UJ	0.0235	ND	UJ	0.0271	ND	UJ	0.0284
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0529	ND	UJ	0.0376	ND	UJ	0.0317	ND	UJ	0.0314	ND	UJ	0.038	ND	UJ	0.0235	ND	U	0.0271	ND	U	0.0284
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0106	ND	U	0.00752	ND	U	0.00634	ND	U	0.00629	ND	U	0.0076	ND	U	0.0047	ND	U	0.00543	ND	U	0.00568
	ACETONE	77.1	66,600	0.0285	J	0.0529	0.00993	J	0.0376	0.0127	J	0.0317	0.0234	J	0.0314	0.0224	J	0.038	0.0175	J	0.0235	0.00598	J	0.0271	0.00484	J	0.0284
	BENZENE	0.0345	15.4	0.00712		0.00423	0.000364	J	0.00301	0.00215	J	0.00253	0.000396	J	0.00251	0.000535	J	0.00304	0.000896	J	0.00188	0.000456	J	0.00217	0.00044	J	0.00227
	BROMOBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	BROMOFORM	12.1	6,116	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	BROMOMETHANE	0.0385	16.5	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CHLOROBENZENE	0.984	376	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CHLOROETHANE	107	29,800	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CHLOROFORM	0.00918	5.86	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CHLOROMETHANE	0.879	275	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	UJ	0.00217	ND	UJ	0.00227
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	ETHYLBENZENE	0.26	68.4	ND	U	0.00423	ND	U	0.00301	0.000499	J	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	M,P-XYLENES	NE	NE	ND	U	0.00847	ND	U	0.00602	0.00178	J	0.00507	ND	U	0.00503	ND	U	0.00608	0.000466	J	0.00376	ND	U	0.00434	ND	U	0.00455
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0106	ND	U	0.00752	ND	U	0.00634	ND	U	0.00629	ND	U	0.0076	ND	U	0.0047	ND	U	0.00543	ND	U	0.00568
	NAPHTHALENE	0.0713	43.0	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	N-BUTYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	N-PROPYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	O-XYLENE	3.13	898	ND	U	0.00423	ND	U	0.00301	0.00053	J	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP289			DP289			DP289			DP289			DP289			DP289			DP290			DP290		
		SAMPLE NO		FFOR1613			FFOR1614			FFOR1615			FFOR1616			FFOR1617			FFOR1618			FFOR1619			FFOR1620		
		SAMPLE DATE		29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			29-Jul-11			28-Jul-11			28-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	STYRENE	27.7	7,280	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TOLUENE	25.3	5,270	0.00199	J	0.00423	0.000652	J	0.00301	0.00285		0.00253	0.000726	J	0.00251	0.000859	J	0.00304	0.00103	J	0.00188	0.000398	J	0.00217	0.000444	J	0.00227
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00423	ND	UJ	0.00301	ND	UJ	0.00253	ND	UJ	0.00251	ND	UJ	0.00304	ND	UJ	0.00188	ND	U	0.00217	ND	U	0.00227
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00423	ND	U	0.00301	ND	U	0.00253	ND	U	0.00251	ND	U	0.00304	ND	U	0.00188	ND	U	0.00217	ND	U	0.00227
	XYLENES	3.13	814	ND	U	0.0127	ND	U	0.00903	0.00231	J	0.0076	ND	U	0.00754	ND	U	0.00912	0.000466	J	0.00564	ND	U	0.00651	ND	U	0.00682
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.82		1.36	4.3		0.66	5.87	J-	0.66	4.39		0.65	3.92		0.64	3.9		0.65	4.35		1.38	4.53		1.38

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP290			DP290			DP290			DP290			DP291			DP291			DP291			DP291		
			SAMPLE NO	FFOR1621			FFOR1622			FFOR1623			FFOR1624			FFOR1625			FFOR1626			FFOR1627			FFOR1628		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.29	1.71	J	4.63	ND	U	4.4	ND	U	4.32	1.65	J	4.25	ND	U	4.44	ND	U	4.57	ND	U	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.57	ND	U	4.92	ND	U	4.07	ND	U	4.2	ND	U	4.37	ND	U	4.8	ND	U	4.68	ND	U	4.68
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.359	ND	UJ	0.382	ND	UJ	0.357	ND	UJ	0.359	ND	UJ	0.356	ND	UJ	0.367	ND	UJ	0.37	ND	UJ	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.718	ND	U	0.765	ND	U	0.714	ND	U	0.718	ND	U	0.713	ND	U	0.733	ND	U	0.741	ND	U	0.717
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP290			DP290			DP290			DP290			DP291			DP291			DP291			DP291		
			SAMPLE NO	FFOR1621			FFOR1622			FFOR1623			FFOR1624			FFOR1625			FFOR1626			FFOR1627			FFOR1628		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.91	ND	U	1.79	ND	U	1.8	ND	U	1.78	ND	U	1.83	ND	U	1.85	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.359	ND	U	0.382	ND	U	0.357	ND	U	0.359	ND	U	0.356	ND	U	0.367	ND	U	0.37	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000123	J	0.00185	0.000608	J	0.00164	ND	U	0.00199	0.000141	J	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	0.000716	J	0.00239
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00185	0.000352	J	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	0.000375	J	0.00239
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	1-CHLOROHEXANE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	UJ	0.00205	ND	UJ	0.00188	ND	UJ	0.00214	ND	UJ	0.00239
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	2-BUTANONE	25.5	37,100	0.000771	J	0.00463	0.00114	J	0.0041	0.00168	J	0.00496	0.00102	J	0.00415	ND	UJ	0.00513	ND	UJ	0.00469	0.00122	J	0.00535	0.00308	J	0.00597
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	2-HEXANONE	NE	NE	ND	U	0.00463	ND	U	0.0041	ND	U	0.00496	ND	U	0.00415	ND	U	0.00513	ND	U	0.00469	ND	U	0.00535	ND	U	0.00597
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0232	ND	UJ	0.0205	ND	UJ	0.0248	ND	UJ	0.0207	ND	UJ	0.0257	ND	UJ	0.0235	ND	UJ	0.0268	ND	UJ	0.0299
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0232	ND	U	0.0205	ND	U	0.0248	ND	U	0.0207	ND	U	0.0257	ND	U	0.0235	ND	U	0.0268	ND	U	0.0299
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00463	ND	U	0.0041	ND	U	0.00496	ND	U	0.00415	ND	UJ	0.00513	ND	UJ	0.00469	ND	UJ	0.00535	ND	UJ	0.00597
	ACETONE	77.1	66,600	0.00577	J	0.0232	0.00472	J	0.0205	0.00782	J	0.0248	0.0066	J	0.0207	0.00657	J	0.0257	0.00587	J	0.0235	0.00792	J	0.0268	0.018	J	0.0299
	BENZENE	0.0345	15.4	0.000382	J	0.00185	0.00178		0.00164	0.000339	J	0.00199	0.0004	J	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	0.00246		0.00239
	BROMOBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	BROMOFORM	12.1	6,116	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	BROMOMETHANE	0.0385	16.5	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CHLOROBENZENE	0.984	376	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CHLOROETHANE	107	29,800	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CHLOROFORM	0.00918	5.86	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CHLOROMETHANE	0.879	275	ND	UJ	0.00185	ND	UJ	0.00164	ND	UJ	0.00199	ND	UJ	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	ETHYLBENZENE	0.26	68.4	0.000215	J	0.00185	0.000355	J	0.00164	ND	U	0.00199	0.000196	J	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	0.00066	J	0.00239
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	M,P-XYLENES	NE	NE	ND	U	0.00371	ND	U	0.00328	ND	U	0.00397	ND	U	0.00332	ND	UJ	0.0041	ND	UJ	0.00375	ND	UJ	0.00428	0.00161	J	0.00478
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00463	ND	U	0.0041	ND	U	0.00496	ND	U	0.00415	ND	UJ	0.00513	ND	UJ	0.00469	ND	UJ	0.00535	ND	UJ	0.00597
	NAPHTHALENE	0.0713	43.0	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	N-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	N-PROPYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	O-XYLENE	3.13	898	ND	U	0.00185	0.00037	J	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	0.000515	J	0.00239

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP290			DP290			DP290			DP290			DP291			DP291			DP291			DP291		
			SAMPLE NO	FFOR1621			FFOR1622			FFOR1623			FFOR1624			FFOR1625			FFOR1626			FFOR1627			FFOR1628		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	STYRENE	27.7	7,280	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	0.000219	J	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TOLUENE	25.3	5,270	0.000575	J	0.00185	0.00219		0.00164	0.000435	J	0.00199	0.000643	J	0.00166	ND	U	0.00205	0.000265	J	0.00188	ND	U	0.00214	0.00277		0.00239
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	VINYL ACETATE	1.52	2,560	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00185	ND	U	0.00164	ND	U	0.00199	ND	U	0.00166	ND	U	0.00205	ND	U	0.00188	ND	U	0.00214	ND	U	0.00239
	XYLENES	3.13	814	ND	U	0.00556	ND	U	0.00492	ND	U	0.00596	ND	U	0.00498	ND	U	0.00616	ND	U	0.00563	ND	U	0.00642	0.00213	J	0.00717
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.85		0.65	9.51		0.7	3.96		0.66	4.65		0.65	4.43		0.65	4.02		0.67	4.27		0.68	5.12	J-	0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP291			DP291			DP292			DP292			DP292			DP292			DP292			DP293		
				SAMPLE NO	FFOR1629			FFOR1630			FFOR1631			FFOR1632			FFOR1633			FFOR1634			FFOR1635			FFOR1636		
				SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.37	ND	U	4.24	ND	U	4.33	ND	U	4.29	ND	U	4.35	ND	U	4.32	ND	U	4.26	1.75	J	4.32
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.48	ND	U	5.22	ND	U	5.22	ND	U	6.15	ND	U	4.37	ND	U	4.86	ND	U	4.27	ND	U	4.99
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.36	ND	UJ	0.35	ND	UJ	0.351	ND	UJ	0.354	ND	UJ	0.358	ND	UJ	0.362	ND	UJ	0.346	ND	UJ	0.35
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.721	ND	U	0.7	ND	U	0.702	ND	U	0.707	ND	U	0.716	ND	U	0.723	ND	U	0.691	ND	U	0.7
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.35	0.175	J	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP291			DP291			DP292			DP292			DP292			DP292			DP292			DP293		
			SAMPLE NO	FFOR1629			FFOR1630			FFOR1631			FFOR1632			FFOR1633			FFOR1634			FFOR1635			FFOR1636		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.75	ND	U	1.76	ND	U	1.77	ND	U	1.79	ND	U	1.81	ND	U	1.73	ND	U	1.75
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.35	ND	U	0.351	ND	U	0.354	ND	U	0.358	ND	U	0.362	ND	U	0.346	ND	U	0.35
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00175	0.000151	J	0.00195	0.000606	J	0.0017	0.000393	J	0.00193	0.000683	J	0.00168	0.000181	J	0.0017	0.000357	J	0.0018	ND	U	0.00328
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	0.000159	J	0.0017	ND	U	0.00193	0.000297	J	0.00168	ND	U	0.0017	0.000185	J	0.0018	ND	U	0.00328
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00175	ND	UJ	0.00195	ND	UJ	0.0017	ND	UJ	0.00193	ND	UJ	0.00168	ND	UJ	0.0017	ND	UJ	0.0018	ND	UJ	0.00328
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	2-BUTANONE	25.5	37,100	0.000861	J	0.00438	0.00171	J	0.00487	ND	UJ	0.00424	0.00195	J	0.00484	ND	UJ	0.00419	0.000894	J	0.00425	0.00295	J	0.0045	0.00199	J	0.0082
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	2-HEXANONE	NE	NE	ND	U	0.00438	ND	U	0.00487	ND	U	0.00424	ND	U	0.00484	ND	U	0.00419	ND	U	0.00425	ND	U	0.0045	ND	U	0.0082
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0219	ND	UJ	0.0244	ND	UJ	0.0212	ND	UJ	0.0242	ND	UJ	0.021	ND	UJ	0.0213	ND	UJ	0.0225	ND	UJ	0.041
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0219	ND	U	0.0244	ND	U	0.0212	ND	U	0.0242	ND	U	0.021	ND	U	0.0213	ND	U	0.0225	ND	U	0.041
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	4-METHYL-2-PENTANONE	NE	5,820	ND	UJ	0.00438	ND	UJ	0.00487	ND	UJ	0.00424	ND	UJ	0.00484	ND	UJ	0.00419	ND	UJ	0.00425	ND	UJ	0.0045	ND	UJ	0.0082
	ACETONE	77.1	66,600	0.00507	J	0.0219	0.00617	J	0.0244	0.00551	J	0.0212	0.00816	J	0.0242	0.00385	J	0.021	0.00526	J	0.0213	0.0152	J	0.0225	0.0133	J	0.041
	BENZENE	0.0345	15.4	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	0.00103	J	0.00168	ND	U	0.0017	0.00119	J	0.0018	ND	U	0.00328
	BROMOBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	BROMOFORM	12.1	6,116	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	BROMOMETHANE	0.0385	16.5	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CHLOROBENZENE	0.984	376	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CHLOROETHANE	107	29,800	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CHLOROFORM	0.00918	5.86	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CHLOROMETHANE	0.879	275	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	ETHYLBENZENE	0.26	68.4	ND	U	0.00175	0.000297	J	0.00195	ND	U	0.0017	ND	U	0.00193	0.000355	J	0.00168	0.000201	J	0.0017	0.000414	J	0.0018	ND	U	0.00328
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	M,P-XYLENES	NE	NE	ND	UJ	0.0035	ND	UJ	0.0039	ND	UJ	0.00339	ND	UJ	0.00387	0.0011	J	0.00335	ND	UJ	0.0034	0.000868	J	0.0036	ND	UJ	0.00656
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00438	ND	UJ	0.00487	ND	UJ	0.00424	ND	UJ	0.00484	ND	UJ	0.00419	ND	UJ	0.00425	ND	UJ	0.0045	ND	UJ	0.0082
	NAPHTHALENE	0.0713	43.0	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	N-BUTYLBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	N-PROPYLBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	O-XYLENE	3.13	898	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	0.000306	J	0.00168	ND	U	0.0017	0.000263	J	0.0018	ND	U	0.00328

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP291			DP291			DP292			DP292			DP292			DP292			DP292			DP293		
		SAMPLE NO		FFOR1629			FFOR1630			FFOR1631			FFOR1632			FFOR1633			FFOR1634			FFOR1635			FFOR1636		
		SAMPLE DATE		28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	STYRENE	27.7	7,280	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00175	ND	U	0.00195	0.000173	J	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TOLUENE	25.3	5,270	0.000348	J	0.00175	0.000621	J	0.00195	0.000386	J	0.0017	0.000646	J	0.00193	0.00144	J	0.00168	0.000463	J	0.0017	0.00153	J	0.0018	0.000549	J	0.00328
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	VINYL ACETATE	1.52	2,560	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00175	ND	U	0.00195	ND	U	0.0017	ND	U	0.00193	ND	U	0.00168	ND	U	0.0017	ND	U	0.0018	ND	U	0.00328
	XYLENES	3.13	814	ND	U	0.00525	ND	U	0.00585	ND	U	0.00509	ND	U	0.0058	0.0014	J	0.00503	ND	U	0.0051	0.00113	J	0.0054	ND	U	0.00984
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.17		0.66	4.5		0.65	4.38		0.65	4.1		0.64	8.32		0.65	5.61		0.66	4.26		0.63	4.35		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP293			DP293			DP293			DP293			DP293			DP294			DP294			DP294		
			SAMPLE NO	FFOR1637			FFOR1638			FFOR1639			FFOR1640			FFOR1641			FFOR1642			FFOR1643			FFOR1644		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.36	J	4.18	1.66	J	4.42	ND	U	4.46	3.08	J	4.48	ND	U	4.29	ND	U	4.59	ND	U	4.28	ND	U	4.42
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.44	ND	U	4.83	ND	U	5.02	ND	U	5.68	ND	U	4.58	ND	U	5.95	ND	U	3.72	ND	U	4.03
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.347	ND	UJ	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.695	ND	U	0.719	ND	U	0.726	ND	U	0.739	ND	U	0.708	ND	U	0.755	ND	U	0.707	ND	U	0.727
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	CHRYSENE	160	147	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP293			DP293			DP293			DP293			DP293			DP294			DP294			DP294		
			SAMPLE NO	FFOR1637			FFOR1638			FFOR1639			FFOR1640			FFOR1641			FFOR1642			FFOR1643			FFOR1644		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.8	ND	U	1.82	ND	U	1.85	ND	U	1.77	ND	U	1.89	ND	U	1.77	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	0.347	ND	U	0.36	ND	U	0.363	ND	U	0.369	ND	U	0.354	ND	U	0.377	ND	U	0.353	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00177	0.000749	J	0.00223	0.000971	J	0.00223	0.000238	J	0.00223	0.00046	J	0.00223	ND	U	0.00219	0.000107	J	0.00163	0.000347	J	0.00186
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00177	0.000314	J	0.00223	0.000454	J	0.00223	ND	U	0.00223	0.000255	J	0.00223	ND	U	0.00219	ND	U	0.00163	0.000194	J	0.00186
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00177	ND	UJ	0.00223	ND	UJ	0.00223	ND	UJ	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	2-BUTANONE	25.5	37,100	ND	UJ	0.00442	0.00275	J	0.00557	0.00135	J	0.00559	0.00132	J	0.00556	0.00368	J	0.00556	0.00177	J	0.00548	0.0011	J	0.00409	ND	U	0.00465
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	2-HEXANONE	NE	NE	ND	U	0.00442	ND	U	0.00557	ND	U	0.00559	ND	U	0.00556	ND	U	0.00556	ND	U	0.00548	ND	U	0.00409	ND	U	0.00465
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0221	ND	UJ	0.0279	ND	UJ	0.0279	ND	UJ	0.0278	ND	UJ	0.0278	ND	UJ	0.0274	ND	UJ	0.0204	ND	UJ	0.0233
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0221	ND	U	0.0279	ND	U	0.0279	ND	U	0.0278	ND	UJ	0.0278	ND	UJ	0.0274	ND	UJ	0.0204	ND	UJ	0.0233
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	4-METHYL-2-PENTANONE	NE	5,820	ND	UJ	0.00442	ND	UJ	0.00557	ND	UJ	0.00559	ND	UJ	0.00556	ND	U	0.00556	ND	U	0.00548	ND	U	0.00409	ND	U	0.00465
	ACETONE	77.1	66,600	0.0101	J	0.0221	0.00607	J	0.0279	0.00613	J	0.0279	0.00919	J	0.0278	0.016	J	0.0278	0.00957	J	0.0274	0.00502	J	0.0204	0.00481	J	0.0233
	BENZENE	0.0345	15.4	ND	U	0.00177	0.00126	J	0.00223	0.00195	J	0.00223	ND	U	0.00223	0.00208	J	0.00223	0.000758	J	0.00219	0.000599	J	0.00163	0.00129	J	0.00186
	BROMOBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	BROMOFORM	12.1	6,116	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	BROMOMETHANE	0.0385	16.5	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CHLOROBENZENE	0.984	376	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CHLOROETHANE	107	29,800	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CHLOROFORM	0.00918	5.86	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CHLOROMETHANE	0.879	275	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	ETHYLBENZENE	0.26	68.4	0.000212	J	0.00177	0.000357	J	0.00223	0.000433	J	0.00223	ND	U	0.00223	0.000766	J	0.00223	ND	U	0.00219	0.000232	J	0.00163	0.000411	J	0.00186
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	M,P-XYLENES	NE	NE	ND	UJ	0.00354	0.00111	J	0.00446	0.00184	J	0.00447	0.00049	J	0.00445	0.00122	J	0.00445	ND	U	0.00439	ND	U	0.00327	0.00092	J	0.00372
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	METHYLENE CHLORIDE	0.824	409	ND	UJ	0.00442	ND	UJ	0.00557	ND	UJ	0.00559	ND	UJ	0.00556	ND	U	0.00556	ND	U	0.00548	ND	U	0.00409	ND	U	0.00465
	NAPHTHALENE	0.0713	43.0	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	N-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	N-PROPYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	O-XYLENE	3.13	898	ND	U	0.00177	0.000396	J	0.00223	0.000585	J	0.00223	0.000161	J	0.00223	0.00031	J	0.00223	ND	U	0.00219	ND	U	0.00163	0.000218	J	0.00186

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP293			DP293			DP293			DP293			DP293			DP294			DP294			DP294		
		SAMPLE NO		FFOR1637			FFOR1638			FFOR1639			FFOR1640			FFOR1641			FFOR1642			FFOR1643			FFOR1644		
		SAMPLE DATE		28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	STYRENE	27.7	7,280	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TOLUENE	25.3	5,270	0.000545	J	0.00177	0.00175	J	0.00223	0.0026		0.00223	0.000575	J	0.00223	0.00255		0.00223	0.000618	J	0.00219	0.000616	J	0.00163	0.00151	J	0.00186
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	VINYL ACETATE	1.52	2,560	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	UJ	0.00223	ND	UJ	0.00219	ND	UJ	0.00163	ND	UJ	0.00186
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00177	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00223	ND	U	0.00219	ND	U	0.00163	ND	U	0.00186
	XYLENES	3.13	814	ND	U	0.00531	0.00151	J	0.00669	0.00243	J	0.0067	0.000651	J	0.00668	0.00153	J	0.00668	ND	U	0.00658	ND	U	0.0049	0.00114	J	0.00558
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.32		0.63	7.25		0.66	7.76		0.67	5.59		0.67	5.22		0.64	3.47		1.38	5.06		0.64	6.65		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP294			DP294			DP295			DP295			DP295			DP295			DP295			DP295		
			SAMPLE NO	FFOR1645			FFOR1646			FFOR1647			FFOR1648			FFOR1649			FFOR1650			FFOR1651			FFOR1652		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.36	ND	U	4.36	1.51	J	4.54	ND	U	4.4	ND	U	4.46	ND	U	4.32	ND	U	4.34	ND	U	4.33
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.68	ND	U	5.47	ND	U	5.38	ND	U	4.28	ND	U	4.23	ND	U	5.64	ND	U	4.3	ND	U	5.71
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	UJ	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2-CHLOROPHENOL	2.31	391	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.715	ND	U	0.708	ND	U	0.749	ND	U	0.726	ND	U	0.735	ND	U	0.711	ND	U	0.716	ND	U	0.709
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	4-CHLOROANILINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	UJ	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	ACENAPHTHYLENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	ANTHRACENE	5,410	17,200	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZENAMINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	0.25	J	0.358	ND	U	0.355
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	CARBAZOLE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	CHRYSENE	160	147	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DIBENZOFURAN	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DIETHYL PHTHALATE	193	48,900	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	FLUORANTHENE	2,430	2,290	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	FLUORENE	406	2,290	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	ISOPHORONE	3.84	5,120	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	NAPHTHALENE	0.0713	43.0	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	NITROBENZENE	0.0125	53.5	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP294			DP294			DP295			DP295			DP295			DP295			DP295			DP295		
			SAMPLE NO	FFOR1645			FFOR1646			FFOR1647			FFOR1648			FFOR1649			FFOR1650			FFOR1651			FFOR1652		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.77	ND	U	1.87	ND	U	1.81	ND	U	1.84	ND	U	1.78	ND	U	1.79	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	PHENOL	99.5	18,300	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	PYRENE	1,790	1,720	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
	PYRIDINE	NE	NE	ND	U	0.357	ND	U	0.354	ND	U	0.375	ND	U	0.363	ND	U	0.368	ND	U	0.356	ND	U	0.358	ND	U	0.355
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	0.000291	J	0.00208	ND	U	0.00188	0.000142	J	0.00192	0.000114	J	0.00163
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	0.000148	J	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	1-CHLOROHEXANE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	2-BUTANONE	25.5	37,100	ND	U	0.00535	0.00137	J	0.00392	ND	U	0.00572	ND	U	0.00468	ND	U	0.0052	ND	U	0.00469	0.00232	J	0.00481	0.00224	J	0.00407
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	2-HEXANONE	NE	NE	ND	U	0.00535	ND	U	0.00392	ND	U	0.00572	ND	U	0.00468	ND	U	0.0052	ND	U	0.00469	ND	U	0.00481	ND	U	0.00407
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0267	ND	UJ	0.0196	ND	UJ	0.0286	ND	UJ	0.0234	ND	UJ	0.026	ND	UJ	0.0235	ND	UJ	0.024	ND	UJ	0.0203
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0267	ND	UJ	0.0196	ND	U	0.0286	ND	UJ	0.0234	ND	UJ	0.026	ND	UJ	0.0235	ND	UJ	0.024	ND	UJ	0.0203
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00535	ND	U	0.00392	ND	U	0.00572	ND	U	0.00468	ND	U	0.0052	ND	U	0.00469	ND	U	0.00481	ND	U	0.00407
	ACETONE	77.1	66,600	0.00215	J	0.0267	0.0062	J	0.0196	0.0083	J	0.0286	0.00318	J	0.0234	0.00642	J	0.026	0.00601	J	0.0235	0.0084	J	0.024	0.0106	J	0.0203
	BENZENE	0.0345	15.4	ND	U	0.00214	ND	U	0.00157	0.00047	J-	0.00229	ND	U	0.00187	0.00133	J	0.00208	ND	U	0.00188	0.000567	J	0.00192	ND	U	0.00163
	BROMOBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	BROMOFORM	12.1	6,116	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	BROMOMETHANE	0.0385	16.5	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CHLOROBENZENE	0.984	376	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CHLOROETHANE	107	29,800	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CHLOROFORM	0.00918	5.86	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CHLOROMETHANE	0.879	275	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	ETHYLBENZENE	0.26	68.4	ND	U	0.00214	0.000277	J	0.00157	ND	U	0.00229	0.000241	J	0.00187	0.000321	J	0.00208	ND	U	0.00188	0.000306	J	0.00192	0.000291	J	0.00163
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	M,P-XYLENES	NE	NE	ND	U	0.00428	ND	U	0.00314	ND	UJ	0.00458	ND	U	0.00375	0.000792	J	0.00416	ND	U	0.00375	ND	U	0.00384	0.000303	J	0.00325
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00535	ND	U	0.00392	ND	U	0.00572	ND	U	0.00468	ND	U	0.0052	ND	U	0.00469	ND	U	0.00481	ND	U	0.00407
	NAPHTHALENE	0.0713	43.0	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	N-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	N-PROPYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	O-XYLENE	3.13	898	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	0.000166	J	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163

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			LOCATION CODE	DP294			DP294			DP295			DP295			DP295			DP295			DP295			DP295		
			SAMPLE NO	FFOR1645			FFOR1646			FFOR1647			FFOR1648			FFOR1649			FFOR1650			FFOR1651			FFOR1652		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	STYRENE	27.7	7,280	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TOLUENE	25.3	5,270	0.000849	J	0.00214	0.000533	J	0.00157	ND	U	0.00229	0.000606	J	0.00187	0.00129	J	0.00208	0.000607	J	0.00188	0.000849	J	0.00192	0.000777	J	0.00163
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00214	ND	U	0.00157	ND	UJ	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00214	ND	UJ	0.00157	ND	UJ	0.00229	ND	UJ	0.00187	ND	UJ	0.00208	ND	UJ	0.00188	ND	UJ	0.00192	ND	UJ	0.00163
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00214	ND	U	0.00157	ND	U	0.00229	ND	U	0.00187	ND	U	0.00208	ND	U	0.00188	ND	U	0.00192	ND	U	0.00163
	XYLENES	3.13	814	ND	U	0.00641	ND	U	0.00471	ND	U	0.00686	ND	U	0.00562	0.000959	J	0.00624	ND	U	0.00563	ND	U	0.00577	ND	U	0.00488
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.62		0.65	5.3		0.65	3	J	0.68	4.47		0.66	6.53		0.67	5.12		0.65	4.53		0.65	4.71		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP296			DP296			DP296			DP296			DP296			DP297			DP297			DP297		
			SAMPLE NO	FFOR1653			FFOR1654			FFOR1655			FFOR1656			FFOR1657			FFOR1658			FFOR1659			FFOR1660		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.45	J	4.32	ND	U	4.15	ND	U	4.46	ND	U	4.33	1.68	J	4.35	1.85	J	4.27	ND	U	4.3	ND	U	4.45
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.68	ND	U	5.39	ND	U	4.47	ND	U	4.8	ND	U	4.3	ND	U	5.62	ND	U	5.64	ND	U	6.48
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	UJ	0.364	ND	UJ	0.352	ND	UJ	0.355	ND	UJ	0.367
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,4-DINITROPHENOL	1.26	122	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2-CHLOROPHENOL	2.31	391	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	2-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	2-NITROPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.713	ND	U	0.695	ND	U	0.736	ND	U	0.712	ND	U	0.728	ND	U	0.704	ND	U	0.71	ND	U	0.734
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	3-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	4-CHLOROANILINE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	4-NITROANILINE	NE	NE	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	4-NITROPHENOL	NE	NE	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	ACENAPHTHENE	338	3,440	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	ACENAPHTHYLENE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	ANTHRACENE	5,410	17,200	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZENAMINE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	CARBAZOLE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	CHRYSENE	160	147	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DIBENZOFURAN	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DIETHYL PHTHALATE	193	48,900	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	FLUORANTHENE	2,430	2,290	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	FLUORENE	406	2,290	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	ISOPHORONE	3.84	5,120	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	NAPHTHALENE	0.0713	43.0	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	NITROBENZENE	0.0125	53.5	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP296			DP296			DP296			DP296			DP296			DP297			DP297			DP297		
			SAMPLE NO	FFOR1653			FFOR1654			FFOR1655			FFOR1656			FFOR1657			FFOR1658			FFOR1659			FFOR1660		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.78	ND	U	1.74	ND	U	1.84	ND	U	1.78	ND	U	1.82	ND	U	1.76	ND	U	1.78	ND	U	1.84
	PHENANTHRENE	571	1,830	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	PHENOL	99.5	18,300	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	PYRENE	1,790	1,720	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
	PYRIDINE	NE	NE	ND	U	0.356	ND	U	0.348	ND	U	0.368	ND	U	0.356	ND	U	0.364	ND	U	0.352	ND	U	0.355	ND	U	0.367
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	0.000184	J	0.00169	ND	U	0.00157	0.000113	J	0.00165	ND	U	0.00198	0.00014	J	0.00221	0.000286	J	0.00249
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	0.000098	J	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	1-CHLOROHEXANE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	2-BUTANONE	25.5	37,100	0.00224	J	0.00678	ND	U	0.00522	ND	U	0.00423	ND	U	0.00391	ND	U	0.00413	0.0103		0.00494	0.00958		0.00552	0.00905		0.00622
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	2-HEXANONE	NE	NE	ND	U	0.00678	ND	U	0.00522	ND	U	0.00423	ND	U	0.00391	ND	U	0.00413	ND	U	0.00494	ND	U	0.00552	ND	U	0.00622
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0339	ND	UJ	0.0261	ND	UJ	0.0211	ND	UJ	0.0196	ND	UJ	0.0206	ND	UJ	0.0247	ND	UJ	0.0276	ND	UJ	0.0311
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0339	ND	UJ	0.0261	ND	UJ	0.0211	ND	UJ	0.0196	ND	U	0.0206	ND	U	0.0247	ND	U	0.0276	ND	U	0.0311
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00678	ND	U	0.00522	ND	U	0.00423	ND	U	0.00391	ND	U	0.00413	ND	U	0.00494	ND	U	0.00552	ND	U	0.00622
	ACETONE	77.1	66,600	0.0126	J	0.0339	0.00792	J	0.0261	0.00319	J	0.0211	0.00414	J	0.0196	0.0159	J	0.0206	0.00715	J	0.0247	0.00913	J	0.0276	0.017	J	0.0311
	BENZENE	0.0345	15.4	ND	U	0.00271	0.00056	J	0.00209	0.000658	J	0.00169	ND	U	0.00157	0.000538	J	0.00165	0.00067	J	0.00198	0.000447	J	0.00221	0.00128	J	0.00249
	BROMOBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	BROMOFORM	12.1	6,116	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	BROMOMETHANE	0.0385	16.5	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CHLOROBENZENE	0.984	376	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CHLOROETHANE	107	29,800	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CHLOROFORM	0.00918	5.86	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CHLOROMETHANE	0.879	275	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	UJ	0.00198	ND	UJ	0.00221	ND	UJ	0.00249
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	ETHYLBENZENE	0.26	68.4	ND	U	0.00271	0.000251	J	0.00209	0.000203	J	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	0.000292	J	0.00249
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	M,P-XYLENES	NE	NE	ND	U	0.00543	ND	U	0.00417	0.000446	J	0.00338	ND	U	0.00313	0.000315	J	0.0033	ND	U	0.00395	ND	U	0.00442	ND	U	0.00498
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00678	ND	U	0.00522	ND	U	0.00423	ND	U	0.00391	ND	U	0.00413	ND	U	0.00494	ND	U	0.00552	ND	U	0.00622
	NAPHTHALENE	0.0713	43.0	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	N-BUTYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	N-PROPYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	O-XYLENE	3.13	898	ND	U	0.00271	ND	U	0.00209	0.000127	J	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	0.000204	J	0.00249

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		LOCATION CODE		DP296			DP296			DP296			DP296			DP296			DP297			DP297			DP297		
		SAMPLE NO		FFOR1653			FFOR1654			FFOR1655			FFOR1656			FFOR1657			FFOR1658			FFOR1659			FFOR1660		
		SAMPLE DATE		28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11			28-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-15 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	STYRENE	27.7	7,280	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TOLUENE	25.3	5,270	0.0011	J	0.00271	0.000767	J	0.00209	0.00085	J	0.00169	0.000384	J	0.00157	ND	U	0.00165	0.000451	J	0.00198	0.000638	J	0.00221	0.0015	J	0.00249
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00271	ND	UJ	0.00209	ND	UJ	0.00169	ND	UJ	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00271	ND	U	0.00209	ND	U	0.00169	ND	U	0.00157	ND	U	0.00165	ND	U	0.00198	ND	U	0.00221	ND	U	0.00249
	XYLENES	3.13	814	ND	U	0.00814	ND	U	0.00626	0.000573	J	0.00508	ND	U	0.0047	ND	U	0.00495	ND	U	0.00593	ND	U	0.00663	ND	U	0.00747
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	2.87		0.65	3.52		0.63	4.79		0.66	4.88	J-	0.65	5.29		0.66	3.47		0.64	3.44		0.64	6.54		0.67

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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			LOCATION CODE	DP297			DP297			DP297			DP298			DP298			DP298			DP298			DP298		
			SAMPLE NO	FFOR1661			FFOR1662			FFOR1663			FFOR1664			FFOR1665			FFOR1666			FFOR1667			FFOR1668		
			SAMPLE DATE	28-Jul-11			28-Jul-11			28-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	6.76		4.36	1.49	J	4.26	1.85	J	4.37	ND	U	4.47	ND	U	4.28	ND	U	4.49	ND	U	4.35	2.19	J	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.62	ND	U	7.71	ND	U	5.17	ND	U	10.7	ND	U	6.08	ND	U	5.39	ND	U	6.1	ND	U	7.01
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.36	ND	UJ	0.357	ND	UJ	0.356	ND	UJ	0.369	ND	UJ	0.352	ND	UJ	0.374	ND	UJ	0.358	ND	UJ	0.363
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,4-DINITROPHENOL	1.26	122	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2-CHLOROPHENOL	2.31	391	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	2-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.72	ND	U	0.714	ND	U	0.711	ND	U	0.738	ND	U	0.704	ND	U	0.749	ND	U	0.717	ND	U	0.726
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	3-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	4-CHLOROANILINE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	4-NITROANILINE	NE	NE	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	ACENAPHTHYLENE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	ANTHRACENE	5,410	17,200	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZENAMINE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	CARBAZOLE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	CHRYSENE	160	147	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DIBENZOFURAN	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DIETHYL PHTHALATE	193	48,900	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	FLUORANTHENE	2,430	2,290	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	FLUORENE	406	2,290	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	ISOPHORONE	3.84	5,120	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	NAPHTHALENE	0.0713	43.0	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	NITROBENZENE	0.0125	53.5	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP297			DP297			DP297			DP298			DP298			DP298			DP298			DP298		
		SAMPLE NO		FFOR1661			FFOR1662			FFOR1663			FFOR1664			FFOR1665			FFOR1666			FFOR1667			FFOR1668		
		SAMPLE DATE		28-Jul-11			28-Jul-11			28-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.8	ND	U	1.79	ND	U	1.78	ND	U	1.85	ND	U	1.76	ND	U	1.87	ND	U	1.79	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	PHENOL	99.5	18,300	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	PYRENE	1,790	1,720	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
	PYRIDINE	NE	NE	ND	U	0.36	ND	U	0.357	ND	U	0.356	ND	U	0.369	ND	U	0.352	ND	U	0.374	ND	U	0.358	ND	U	0.363
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000452	J	0.00248	0.000193	J	0.00235	0.000174	J	0.00223	ND	U	0.00224	ND	U	0.00218	0.000344	J	0.00257	ND	U	0.00217	0.000254	J	0.00269
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.00023	J	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	0.000242	J	0.00257	ND	U	0.00217	ND	U	0.00269
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	1-CHLOROHEXANE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	2-BUTANONE	25.5	37,100	0.00938		0.00621	0.00484	J	0.00588	0.0028	J	0.00558	ND	U	0.00559	ND	U	0.00545	ND	U	0.00641	0.00301	J	0.00543	0.00316	J	0.00672
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	2-HEXANONE	NE	NE	ND	U	0.00621	ND	U	0.00588	ND	U	0.00558	ND	U	0.00559	ND	U	0.00545	ND	U	0.00641	ND	U	0.00543	ND	U	0.00672
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0311	ND	UJ	0.0294	ND	UJ	0.0279	ND	U	0.028	ND	U	0.0272	ND	U	0.0321	ND	U	0.0272	ND	U	0.0336
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0311	ND	U	0.0294	ND	U	0.0279	ND	U	0.028	ND	U	0.0272	ND	U	0.0321	ND	U	0.0272	ND	U	0.0336
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00621	ND	U	0.00588	ND	U	0.00558	ND	U	0.00559	ND	U	0.00545	ND	U	0.00641	ND	U	0.00543	ND	U	0.00672
	ACETONE	77.1	66,600	0.0177	J	0.0311	0.0188	J	0.0294	0.012	J	0.0279	0.00337	J	0.028	0.0133	J	0.0272	0.0159	J	0.0321	0.0295		0.0272	0.0187	J	0.0336
	BENZENE	0.0345	15.4	0.00139	J	0.00248	0.000846	J	0.00235	0.000821	J	0.00223	ND	U	0.00224	ND	U	0.00218	0.00115	J	0.00257	ND	U	0.00217	ND	U	0.00269
	BROMOBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	BROMOFORM	12.1	6,116	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	BROMOMETHANE	0.0385	16.5	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CHLOROBENZENE	0.984	376	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CHLOROETHANE	107	29,800	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CHLOROFORM	0.00918	5.86	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CHLOROMETHANE	0.879	275	ND	UJ	0.00248	ND	UJ	0.00235	ND	UJ	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	ETHYLBENZENE	0.26	68.4	0.000459	J	0.00248	0.000295	J	0.00235	0.000249	J	0.00223	ND	U	0.00224	ND	U	0.00218	0.000303	J	0.00257	0.000259	J	0.00217	0.000369	J	0.00269
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	M,P-XYLENES	NE	NE	ND	U	0.00497	ND	U	0.00471	ND	U	0.00447	ND	U	0.00447	ND	U	0.00436	0.00092	J	0.00513	ND	U	0.00435	0.000626	J	0.00538
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00621	ND	U	0.00588	ND	U	0.00558	ND	U	0.00559	ND	U	0.00545	ND	U	0.00641	ND	U	0.00543	ND	U	0.00672
	NAPHTHALENE	0.0713	43.0	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	N-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	N-PROPYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	O-XYLENE	3.13	898	0.000316	J	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	0.000235	J	0.00257	ND	U	0.00217	ND	U	0.00269

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP297			DP297			DP297			DP298			DP298			DP298			DP298			DP298		
		SAMPLE NO		FFOR1661			FFOR1662			FFOR1663			FFOR1664			FFOR1665			FFOR1666			FFOR1667			FFOR1668		
		SAMPLE DATE		28-Jul-11			28-Jul-11			28-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	STYRENE	27.7	7,280	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TOLUENE	25.3	5,270	0.00193	J	0.00248	0.00105	J	0.00235	0.000902	J	0.00223	ND	U	0.00224	ND	U	0.00218	0.00181	J	0.00257	0.00119	J	0.00217	0.00191	J	0.00269
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	VINYL ACETATE	1.52	2,560	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	UJ	0.00218	ND	UJ	0.00257	ND	UJ	0.00217	ND	UJ	0.00269
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00248	ND	U	0.00235	ND	U	0.00223	ND	U	0.00224	ND	U	0.00218	ND	U	0.00257	ND	U	0.00217	ND	U	0.00269
	XYLENES	3.13	814	ND	U	0.00745	ND	U	0.00706	ND	U	0.0067	ND	U	0.00671	ND	U	0.00653	0.00116	J	0.0077	ND	U	0.00652	0.000626	J	0.00806
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.37		0.65	4.15		0.65	4.75		0.66	3.13		0.67	4		0.64	6.56		0.68	5.16		0.65	5.04		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP299			DP299			DP299			DP299			DP299			DP299			DP300			DP300		
			SAMPLE NO	FFOR1669			FFOR1670			FFOR1671			FFOR1672			FFOR1673			FFOR1674			FFOR1675			FFOR1676		
			SAMPLE DATE	21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.46	ND	U	4.29	ND	U	4.56	ND	U	4.39	ND	U	4.42	ND	U	4.4	ND	U	4.46	ND	U	4.07
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	7.45	ND	U	7.73	ND	U	7.5	ND	U	7.19	ND	U	6.56	ND	U	7.28	ND	U	6.16	ND	U	5.48
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.369	ND	UJ	0.356	ND	U	0.376	ND	UJ	0.362	ND	UJ	0.36	ND	UJ	0.363	ND	UJ	0.363	ND	U	0.337
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,4-DINITROPHENOL	1.26	122	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2-CHLOROPHENOL	2.31	391	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	2-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	2-NITROPHENOL	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.739	ND	U	0.712	ND	U	0.752	ND	U	0.725	ND	U	0.719	ND	U	0.726	ND	U	0.727	ND	U	0.673
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	3-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	4-CHLOROANILINE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	4-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	4-NITROPHENOL	NE	NE	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	ACENAPHTHENE	338	3,440	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	ACENAPHTHYLENE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	ANTHRACENE	5,410	17,200	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZENAMINE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	CARBAZOLE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	CHRYSENE	160	147	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DIBENZOFURAN	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DIETHYL PHTHALATE	193	48,900	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	FLUORANTHENE	2,430	2,290	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	FLUORENE	406	2,290	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	ISOPHORONE	3.84	5,120	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	NAPHTHALENE	0.0713	43.0	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	NITROBENZENE	0.0125	53.5	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP299			DP299			DP299			DP299			DP299			DP299			DP300			DP300		
			SAMPLE NO	FFOR1669			FFOR1670			FFOR1671			FFOR1672			FFOR1673			FFOR1674			FFOR1675			FFOR1676		
			SAMPLE DATE	21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.85	ND	U	1.78	ND	U	1.88	ND	U	1.81	ND	U	1.8	ND	U	1.81	ND	U	1.82	ND	U	1.68
	PHENANTHRENE	571	1,830	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	PHENOL	99.5	18,300	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	PYRENE	1,790	1,720	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
	PYRIDINE	NE	NE	ND	U	0.369	ND	U	0.356	ND	U	0.376	ND	U	0.362	ND	U	0.36	ND	U	0.363	ND	U	0.363	ND	U	0.337
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00258	0.000467	J	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00258	0.000299	J	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	1-CHLOROHEXANE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	UJ	0.00267	ND	UJ	0.00215
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	2-BUTANONE	25.5	37,100	ND	U	0.00644	0.000724	J	0.00486	ND	U	0.00518	ND	U	0.00541	0.00149	J	0.00558	0.00726		0.00581	0.00264	J	0.00667	0.00318	J	0.00538
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	2-HEXANONE	NE	NE	ND	U	0.00644	ND	U	0.00486	ND	U	0.00518	ND	U	0.00541	ND	U	0.00558	ND	U	0.00581	ND	U	0.00667	ND	U	0.00538
	2-PROPENAL	0.000146	0.404	ND	U	0.0322	ND	U	0.0243	ND	U	0.0259	ND	U	0.0271	ND	U	0.0279	ND	U	0.029	ND	U	0.0334	ND	U	0.0269
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0322	ND	U	0.0243	ND	U	0.0259	ND	U	0.0271	ND	U	0.0279	ND	U	0.029	ND	UJ	0.0334	ND	UJ	0.0269
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00644	ND	U	0.00486	ND	U	0.00518	ND	U	0.00541	ND	U	0.00558	ND	U	0.00581	ND	U	0.00667	ND	U	0.00538
	ACETONE	77.1	66,600	0.0308	J	0.0322	0.0131	J	0.0243	0.0162	J	0.0259	0.0103	J	0.0271	0.0118	J	0.0279	0.0166	J	0.029	0.016	J	0.0334	0.00969	J	0.0269
	BENZENE	0.0345	15.4	0.00741		0.00258	0.00138	J	0.00194	ND	U	0.00207	0.00102	J	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	BROMOBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	BROMOFORM	12.1	6,116	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	BROMOMETHANE	0.0385	16.5	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	UJ	0.00232	ND	U	0.00267	ND	U	0.00215
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CHLOROBENZENE	0.984	376	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CHLOROETHANE	107	29,800	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CHLOROFORM	0.00918	5.86	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CHLOROMETHANE	0.879	275	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	ETHYLBENZENE	0.26	68.4	ND	U	0.00258	0.000285	J	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	M,P-XYLENES	NE	NE	ND	U	0.00516	0.00123	J	0.00389	ND	U	0.00415	ND	U	0.00433	ND	U	0.00446	ND	U	0.00465	ND	U	0.00534	ND	U	0.0043
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00644	ND	U	0.00486	ND	U	0.00518	ND	U	0.00541	ND	U	0.00558	ND	U	0.00581	ND	U	0.00667	ND	U	0.00538
	NAPHTHALENE	0.0713	43.0	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	N-BUTYLBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	N-PROPYLBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	O-XYLENE	3.13	898	ND	U	0.00258	0.000288	J	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP299			DP299			DP299			DP299			DP299			DP299			DP300			DP300		
		SAMPLE NO		FFOR1669			FFOR1670			FFOR1671			FFOR1672			FFOR1673			FFOR1674			FFOR1675			FFOR1676		
		SAMPLE DATE		21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			FD		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	STYRENE	27.7	7,280	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TOLUENE	25.3	5,270	0.00145	J	0.00258	0.00222		0.00194	ND	U	0.00207	0.00106	J	0.00217	ND	U	0.00223	0.000948	J	0.00232	ND	U	0.00267	ND	U	0.00215
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00258	ND	UJ	0.00194	ND	UJ	0.00207	ND	UJ	0.00217	ND	UJ	0.00223	ND	U	0.00232	ND	UJ	0.00267	ND	UJ	0.00215
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00258	ND	U	0.00194	ND	U	0.00207	ND	U	0.00217	ND	U	0.00223	ND	U	0.00232	ND	U	0.00267	ND	U	0.00215
	XYLENES	3.13	814	ND	U	0.00773	0.00152	J	0.00583	ND	U	0.00622	ND	U	0.0065	ND	U	0.00669	ND	U	0.00697	ND	U	0.00801	ND	U	0.00646
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	3.72		1.35	4.13		0.65	8.47	J-	0.68	5.3		0.65	4.54		0.66	4.57		0.66	3.6		0.67	3.33		0.61

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP300			DP300			DP300			DP300			DP301			DP301			DP301			DP301		
			SAMPLE NO	FFOR1677			FFOR1678			FFOR1679			FFOR1680			FFOR1681			FFOR1682			FFOR1683			FFOR1684		
			SAMPLE DATE	21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	ND	U	4.49	ND	U	4.29	ND	U	4.3	ND	U	4.34	1.72	J	4.3	ND	U	4.26	ND	U	4.59
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.04	ND	U	6.12	ND	U	4.99	ND	U	5.38	ND	U	7.71	ND	U	6.05	ND	U	5.67	ND	U	9.16
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.351	ND	UJ	0.369	ND	UJ	0.354	ND	UJ	0.352	ND	UJ	0.356	ND	UJ	0.351	ND	UJ	0.348	ND	UJ	0.379
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.702	ND	U	0.738	ND	U	0.709	ND	U	0.704	ND	U	0.711	ND	U	0.702	ND	U	0.697	ND	U	0.757
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP300			DP300			DP300			DP300			DP301			DP301			DP301			DP301		
			SAMPLE NO	FFOR1677			FFOR1678			FFOR1679			FFOR1680			FFOR1681			FFOR1682			FFOR1683			FFOR1684		
			SAMPLE DATE	21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.84	ND	U	1.77	ND	U	1.76	ND	U	1.78	ND	U	1.76	ND	U	1.74	ND	U	1.89
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.369	ND	U	0.354	ND	U	0.352	ND	U	0.356	ND	U	0.351	ND	U	0.348	ND	U	0.379
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00187	0.00106	J	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	0.0011	J	0.00247
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	UJ	0.00247
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00187	0.000552	J	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	0.00044	J	0.00247
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00187	ND	UJ	0.0023	ND	UJ	0.0018	ND	UJ	0.00208	ND	UJ	0.00235	ND	UJ	0.0021	ND	UJ	0.00225	ND	UJ	0.00247
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	2-BUTANONE	25.5	37,100	ND	UJ	0.00468	ND	UJ	0.00574	ND	UJ	0.00451	0.00686	J	0.0052	ND	UJ	0.00588	ND	UJ	0.00524	ND	UJ	0.00564	0.00509	J	0.00617
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	2-HEXANONE	NE	NE	ND	U	0.00468	ND	U	0.00574	ND	U	0.00451	ND	U	0.0052	ND	U	0.00588	ND	U	0.00524	ND	U	0.00564	ND	UJ	0.00617
	2-PROPENAL	0.000146	0.404	ND	U	0.0234	ND	U	0.0287	ND	U	0.0226	ND	U	0.026	ND	U	0.0294	ND	U	0.0262	ND	U	0.0282	ND	UJ	0.0308
	2-PROPENENITRILE	0.0016969	4.55	ND	UJ	0.0234	ND	UJ	0.0287	ND	UJ	0.0226	ND	UJ	0.026	ND	UJ	0.0294	ND	UJ	0.0262	ND	UJ	0.0282	ND	UJ	0.0308
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00468	ND	U	0.00574	ND	U	0.00451	ND	U	0.0052	ND	U	0.00588	ND	U	0.00524	ND	U	0.00564	ND	UJ	0.00617
	ACETONE	77.1	66,600	0.00502	J	0.0234	0.00784	J	0.0287	0.00845	J	0.0226	0.0318	J	0.026	0.0193	J	0.0294	0.00192	J	0.0262	0.00519	J	0.0282	0.0181	J	0.0308
	BENZENE	0.0345	15.4	ND	U	0.00187	0.00358		0.0023	0.000322	J	0.0018	0.000917	J	0.00208	0.000285	J	0.00235	0.00026	J	0.0021	0.000345	J	0.00225	0.00335		0.00247
	BROMOBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	BROMOFORM	12.1	6,116	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	BROMOMETHANE	0.0385	16.5	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CHLOROBENZENE	0.984	376	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CHLOROETHANE	107	29,800	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CHLOROFORM	0.00918	5.86	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CHLOROMETHANE	0.879	275	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	ETHYLBENZENE	0.26	68.4	ND	U	0.00187	0.000764	J	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	0.000887	J	0.00247
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	M,P-XYLENES	NE	NE	ND	U	0.00374	0.00303	J	0.0046	ND	U	0.00361	0.000687	J	0.00416	ND	U	0.0047	ND	U	0.00419	ND	U	0.00451	0.00274	J	0.00493
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00468	ND	U	0.00574	ND	U	0.00451	ND	U	0.0052	ND	U	0.00588	ND	U	0.00524	ND	U	0.00564	ND	U	0.00617
	NAPHTHALENE	0.0713	43.0	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	N-BUTYLBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	N-PROPYLBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	O-XYLENE	3.13	898	ND	U	0.00187	0.000827	J	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	0.000592	J	0.00247

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP300			DP300			DP300			DP300			DP301			DP301			DP301			DP301		
			SAMPLE NO	FFOR1677			FFOR1678			FFOR1679			FFOR1680			FFOR1681			FFOR1682			FFOR1683			FFOR1684		
			SAMPLE DATE	21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	STYRENE	27.7	7,280	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TOLUENE	25.3	5,270	ND	U	0.00187	0.00445		0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	0.00343		0.00247
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	VINYL ACETATE	1.52	2,560	ND	UJ	0.00187	ND	UJ	0.0023	ND	UJ	0.0018	ND	UJ	0.00208	ND	UJ	0.00235	ND	UJ	0.0021	ND	UJ	0.00225	ND	UJ	0.00247
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00187	ND	U	0.0023	ND	U	0.0018	ND	U	0.00208	ND	U	0.00235	ND	U	0.0021	ND	U	0.00225	ND	U	0.00247
	XYLENES	3.13	814	ND	U	0.00561	0.00386	J	0.00689	ND	U	0.00541	0.000687	J	0.00624	ND	U	0.00705	ND	U	0.00629	ND	U	0.00676	0.00334	J	0.0074
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.04		0.65	7.11		0.67	4.32		0.64	4.58		0.64	3.54		0.65	4.56		0.64	4.15		0.64	8.15	J-	0.69

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP301			DP301			DP302			DP302			DP302			DP302			DP302			DP303		
			SAMPLE NO	FFOR1685			FFOR1686			FFOR1687			FFOR1688			FFOR1689			FFOR1690			FFOR1691			FFOR1692		
			SAMPLE DATE	21-Jul-11			21-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.3	ND	U	4.29	1.83	J	4.35	ND	U	4.37	ND	U	4.39	ND	U	4.49	1.57	J	4.45	1.95	J	4.35
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.18	ND	U	7.72	ND	U	5.35	ND	U	5.82	ND	U	4.84	ND	U	4.46	ND	U	5.65	ND	U	4.87
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.351	ND	UJ	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.703	ND	U	0.704	ND	U	0.718	ND	U	0.733	ND	U	0.732	ND	U	0.741	ND	U	0.746	ND	U	0.724
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP301			DP301			DP302			DP302			DP302			DP302			DP302			DP303		
			SAMPLE NO	FFOR1685			FFOR1686			FFOR1687			FFOR1688			FFOR1689			FFOR1690			FFOR1691			FFOR1692		
			SAMPLE DATE	21-Jul-11			21-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.76	ND	U	1.8	ND	U	1.83	ND	U	1.83	ND	U	1.85	ND	U	1.86	ND	U	1.81
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.352	ND	U	0.359	ND	U	0.366	ND	U	0.366	ND	U	0.37	ND	U	0.373	ND	U	0.362
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	1-CHLOROHEXANE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	2-BUTANONE	25.5	37,100	0.00618		0.00514	0.0114		0.00611	0.00606		0.00492	ND	U	0.00587	ND	U	0.00488	ND	U	0.00576	0.00554		0.0049	ND	U	0.00492
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	2-HEXANONE	NE	NE	ND	U	0.00514	ND	U	0.00611	ND	U	0.00492	ND	U	0.00587	ND	U	0.00488	ND	U	0.00576	ND	U	0.0049	ND	U	0.00492
	2-PROPENAL	0.000146	0.404	ND	U	0.0257	ND	U	0.0305	ND	U	0.0246	ND	U	0.0293	ND	U	0.0244	ND	U	0.0288	ND	U	0.0245	ND	U	0.0246
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0257	ND	U	0.0305	ND	U	0.0246	ND	U	0.0293	ND	U	0.0244	ND	U	0.0288	ND	U	0.0245	ND	U	0.0246
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00514	ND	U	0.00611	ND	U	0.00492	ND	U	0.00587	ND	U	0.00488	ND	U	0.00576	ND	U	0.0049	ND	U	0.00492
	ACETONE	77.1	66,600	0.0166	J	0.0257	0.021	J	0.0305	0.00923	J	0.0246	0.00759	J	0.0293	0.00506	J	0.0244	ND	U	0.0288	0.00564	J	0.0245	0.01	J	0.0246
	BENZENE	0.0345	15.4	0.00185	J	0.00206	ND	U	0.00244	ND	U	0.00197	0.000437	J	0.00235	0.0017	J	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	BROMOBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	BROMOFORM	12.1	6,116	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CHLOROBENZENE	0.984	376	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CHLOROETHANE	107	29,800	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CHLOROFORM	0.00918	5.86	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CHLOROMETHANE	0.879	275	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	ETHYLBENZENE	0.26	68.4	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	M,P-XYLENES	NE	NE	ND	U	0.00411	ND	U	0.00489	ND	U	0.00394	ND	U	0.00469	ND	U	0.0039	ND	U	0.00461	ND	U	0.00392	ND	U	0.00394
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00514	ND	U	0.00611	ND	U	0.00492	ND	U	0.00587	ND	U	0.00488	ND	U	0.00576	ND	U	0.0049	ND	U	0.00492
	NAPHTHALENE	0.0713	43.0	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	N-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	N-PROPYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	O-XYLENE	3.13	898	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP301			DP301			DP302			DP302			DP302			DP302			DP302			DP303		
			SAMPLE NO	FFOR1685			FFOR1686			FFOR1687			FFOR1688			FFOR1689			FFOR1690			FFOR1691			FFOR1692		
			SAMPLE DATE	21-Jul-11			21-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	STYRENE	27.7	7,280	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TOLUENE	25.3	5,270	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	0.00281		0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	VINYL ACETATE	1.52	2,560	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00206	ND	U	0.00244	ND	U	0.00197	ND	U	0.00235	ND	U	0.00195	ND	U	0.00231	ND	U	0.00196	ND	U	0.00197
	XYLENES	3.13	814	ND	U	0.00617	ND	U	0.00733	ND	U	0.00591	ND	U	0.00704	ND	U	0.00586	ND	U	0.00692	ND	U	0.00588	ND	U	0.00591
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.94		0.65	4.62		0.65	4.93		0.65	5.14		0.67	8.45		0.67	6.27		0.67	5.22		0.68	4.39		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP303			DP303			DP303			DP303			DP303			DP304			DP304			DP304		
			SAMPLE NO	FFOR1693			FFOR1694			FFOR1695			FFOR1696			FFOR1697			FFOR1698			FFOR1699			FFOR1700		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.52	J	4.22	ND	U	4.34	ND	U	4.42	ND	U	4.35	ND	U	4.46	1.47	J	4.41	ND	U	4.33	ND	U	4.4
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.43	ND	U	4	ND	U	4.04	ND	U	4.07	ND	U	5.26	ND	U	5.92	ND	U	5.17	ND	U	4.15
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,4-DINITROPHENOL	1.26	122	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2-CHLOROPHENOL	2.31	391	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	2-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.685	ND	U	0.715	ND	U	0.729	ND	U	0.719	ND	U	0.735	ND	U	0.728	ND	U	0.715	ND	U	0.715
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	3-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	4-CHLOROANILINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	4-NITROANILINE	NE	NE	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	ACENAPHTHYLENE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	ANTHRACENE	5,410	17,200	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZENAMINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.343	0.0141	J	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	CARBAZOLE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	CHRYSENE	160	147	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DIBENZOFURAN	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DIETHYL PHTHALATE	193	48,900	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	FLUORANTHENE	2,430	2,290	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	FLUORENE	406	2,290	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	ISOPHORONE	3.84	5,120	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	NAPHTHALENE	0.0713	43.0	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	NITROBENZENE	0.0125	53.5	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP303			DP303			DP303			DP303			DP303			DP304			DP304			DP304		
		SAMPLE NO		FFOR1693			FFOR1694			FFOR1695			FFOR1696			FFOR1697			FFOR1698			FFOR1699			FFOR1700		
		SAMPLE DATE		26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.71	ND	U	1.79	ND	U	1.82	ND	U	1.8	ND	U	1.84	ND	U	1.82	ND	U	1.79	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	PHENOL	99.5	18,300	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	PYRENE	1,790	1,720	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
	PYRIDINE	NE	NE	ND	U	0.343	ND	U	0.358	ND	U	0.364	ND	U	0.36	ND	U	0.368	ND	U	0.364	ND	U	0.358	ND	U	0.357
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	0.000406	J	0.00225
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	0.000208	J	0.00225
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	1-CHLOROHEXANE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	2-BUTANONE	25.5	37,100	0.0055		0.00496	0.00474		0.00468	0.00697		0.00559	0.00504		0.00431	0.00759		0.00595	0.00652		0.00587	0.00521		0.00503	0.00645		0.00563
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	2-HEXANONE	NE	NE	ND	U	0.00496	ND	U	0.00468	ND	U	0.00559	ND	U	0.00431	ND	U	0.00595	ND	U	0.00587	ND	U	0.00503	ND	U	0.00563
	2-PROPENAL	0.000146	0.404	ND	U	0.0248	ND	U	0.0234	ND	U	0.0279	ND	U	0.0215	ND	U	0.0298	ND	U	0.0293	ND	U	0.0251	ND	U	0.0281
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0248	ND	U	0.0234	ND	U	0.0279	ND	U	0.0215	ND	U	0.0298	ND	U	0.0293	ND	U	0.0251	ND	U	0.0281
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00496	ND	U	0.00468	ND	U	0.00559	ND	U	0.00431	ND	U	0.00595	ND	U	0.00587	ND	U	0.00503	ND	U	0.00563
	ACETONE	77.1	66,600	0.00727	J	0.0248	0.00474	J	0.0234	0.0163	J	0.0279	0.00847	J	0.0215	0.00777	J	0.0298	0.0103	J	0.0293	0.00514	J	0.0251	0.00776	J	0.0281
	BENZENE	0.0345	15.4	ND	U	0.00198	0.000696	J	0.00187	0.00154	J	0.00224	ND	U	0.00172	ND	U	0.00238	0.000299	J	0.00235	0.000361	J	0.00201	0.00141	J	0.00225
	BROMOBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	BROMOFORM	12.1	6,116	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	BROMOMETHANE	0.0385	16.5	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CHLOROBENZENE	0.984	376	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CHLOROETHANE	107	29,800	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CHLOROFORM	0.00918	5.86	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CHLOROMETHANE	0.879	275	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	ETHYLBENZENE	0.26	68.4	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	M,P-XYLENES	NE	NE	ND	U	0.00397	ND	U	0.00374	ND	U	0.00447	ND	U	0.00345	ND	U	0.00476	ND	U	0.0047	ND	U	0.00402	ND	U	0.0045
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00496	ND	U	0.00468	ND	U	0.00559	ND	U	0.00431	ND	U	0.00595	ND	U	0.00587	ND	U	0.00503	ND	U	0.00563
	NAPHTHALENE	0.0713	43.0	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	N-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	N-PROPYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	O-XYLENE	3.13	898	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP303			DP303			DP303			DP303			DP303			DP304			DP304			DP304		
			SAMPLE NO	FFOR1693			FFOR1694			FFOR1695			FFOR1696			FFOR1697			FFOR1698			FFOR1699			FFOR1700		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	STYRENE	27.7	7,280	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	UJ	0.00235	ND	UJ	0.00201	ND	UJ	0.00225
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	TOLUENE	25.3	5,270	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	0.000685	J	0.00201	0.00215	J	0.00225
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	VINYL ACETATE	1.52	2,560	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00198	ND	U	0.00187	ND	U	0.00224	ND	U	0.00172	ND	U	0.00238	ND	U	0.00235	ND	U	0.00201	ND	U	0.00225
	XYLENES	3.13	814	ND	U	0.00595	ND	U	0.00561	ND	U	0.00671	ND	U	0.00517	ND	U	0.00714	ND	U	0.00704	ND	U	0.00603	ND	U	0.00675
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.48		0.63	6.55		0.66	8.32		0.67	6.75		0.66	5.2		1.33	9		0.66	5.15		0.65	6.49		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP304			DP304			DP305			DP305			DP305			DP305			DP305			DP305		
			SAMPLE NO	FFOR1701			FFOR1702			FFOR1703			FFOR1704			FFOR1705			FFOR1706			FFOR1707			FFOR1708		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.54	ND	U	4.37	2.22	J	4.34	ND	U	4.3	1.42	J	4.26	ND	U	4.62	ND	U	4.25	ND	U	4.26
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.04	ND	U	3.82	ND	U	5.44	ND	U	4.87	ND	U	3.51	ND	U	4.18	ND	U	4.49	ND	U	5.17
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	UJ	0.355	ND	UJ	0.351	ND	UJ	0.376	ND	UJ	0.356	ND	UJ	0.358
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,4-DINITROPHENOL	1.26	122	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2-CHLOROPHENOL	2.31	391	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2-METHYLPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	2-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.742	ND	U	0.722	ND	U	0.717	ND	U	0.71	ND	U	0.702	ND	U	0.753	ND	U	0.712	ND	U	0.715
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	3-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	4-CHLOROANILINE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	4-NITROANILINE	NE	NE	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	ACENAPHTHYLENE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	ANTHRACENE	5,410	17,200	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZENAMINE	NE	NE	ND	U	0.371	ND	U	0.361	ND	UJ	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.371	ND	U	0.361	ND	UJ	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.371	ND	U	0.361	ND	U	0.358	0.042	J	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	CARBAZOLE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	CHRYSENE	160	147	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DIBENZOFURAN	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DIETHYL PHTHALATE	193	48,900	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	FLUORANTHENE	2,430	2,290	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	FLUORENE	406	2,290	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	ISOPHORONE	3.84	5,120	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	NAPHTHALENE	0.0713	43.0	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	NITROBENZENE	0.0125	53.5	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP304			DP304			DP305			DP305			DP305			DP305			DP305			DP305		
			SAMPLE NO	FFOR1701			FFOR1702			FFOR1703			FFOR1704			FFOR1705			FFOR1706			FFOR1707			FFOR1708		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.85	ND	U	1.8	ND	U	1.79	ND	U	1.77	ND	U	1.76	ND	U	1.88	ND	U	1.78	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	PHENOL	99.5	18,300	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	PYRENE	1,790	1,720	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
	PYRIDINE	NE	NE	ND	U	0.371	ND	U	0.361	ND	U	0.358	ND	U	0.355	ND	U	0.351	ND	U	0.376	ND	U	0.356	ND	U	0.358
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	0.000407	J	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	0.000191	J	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	1-CHLOROHEXANE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	2-BUTANONE	25.5	37,100	0.00573		0.00452	0.00593		0.00465	ND	U	0.00471	0.00603		0.00504	0.00653		0.005	0.00335	J	0.00347	ND	U	0.00627	ND	U	0.0057
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	2-HEXANONE	NE	NE	ND	U	0.00452	ND	U	0.00465	ND	U	0.00471	ND	U	0.00504	ND	U	0.005	ND	U	0.00347	ND	U	0.00627	ND	U	0.0057
	2-PROPENAL	0.000146	0.404	ND	U	0.0226	ND	U	0.0232	ND	U	0.0236	ND	U	0.0252	ND	U	0.025	ND	U	0.0174	ND	U	0.0314	ND	U	0.0285
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0226	ND	U	0.0232	ND	U	0.0236	ND	U	0.0252	ND	U	0.025	ND	U	0.0174	ND	U	0.0314	ND	U	0.0285
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00452	ND	U	0.00465	ND	U	0.00471	ND	U	0.00504	ND	U	0.005	ND	U	0.00347	ND	U	0.00627	ND	U	0.0057
	ACETONE	77.1	66,600	0.00508	J	0.0226	0.00677	J	0.0232	0.0115	J	0.0236	0.00664	J	0.0252	0.00778	J	0.025	0.00253	J	0.0174	0.0153	J	0.0314	0.0138	J	0.0285
	BENZENE	0.0345	15.4	0.000119	J	0.00181	0.000332	J	0.00186	ND	U	0.00189	0.000284	J	0.00201	0.00142	J	0.002	0.000132	J	0.00139	0.000925	J	0.00251	0.000809	J	0.00228
	BROMOBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	BROMOFORM	12.1	6,116	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	BROMOMETHANE	0.0385	16.5	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CHLOROBENZENE	0.984	376	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CHLOROETHANE	107	29,800	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CHLOROFORM	0.00918	5.86	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CHLOROMETHANE	0.879	275	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	ETHYLBENZENE	0.26	68.4	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	M,P-XYLENES	NE	NE	ND	U	0.00362	ND	U	0.00372	ND	U	0.00377	ND	U	0.00403	ND	U	0.004	ND	U	0.00278	ND	U	0.00502	ND	U	0.00456
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00452	ND	U	0.00465	ND	U	0.00471	ND	U	0.00504	ND	U	0.005	ND	U	0.00347	ND	U	0.00627	ND	U	0.0057
	NAPHTHALENE	0.0713	43.0	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	N-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	N-PROPYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	O-XYLENE	3.13	898	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP304			DP304			DP305			DP305			DP305			DP305			DP305			DP305		
		SAMPLE NO		FFOR1701			FFOR1702			FFOR1703			FFOR1704			FFOR1705			FFOR1706			FFOR1707			FFOR1708		
		SAMPLE DATE		26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	STYRENE	27.7	7,280	ND	UJ	0.00181	ND	UJ	0.00186	ND	U	0.00189	ND	UJ	0.00201	ND	UJ	0.002	ND	UJ	0.00139	ND	U	0.00251	ND	U	0.00228
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	TOLUENE	25.3	5,270	0.000521	J	0.00181	0.000761	J	0.00186	ND	U	0.00189	0.000516	J	0.00201	0.00224		0.002	0.000336	J	0.00139	ND	U	0.00251	ND	U	0.00228
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	VINYL ACETATE	1.52	2,560	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00181	ND	U	0.00186	ND	U	0.00189	ND	U	0.00201	ND	U	0.002	ND	U	0.00139	ND	U	0.00251	ND	U	0.00228
	XYLENES	3.13	814	ND	U	0.00542	ND	U	0.00558	ND	U	0.00566	ND	U	0.00604	ND	U	0.006	ND	U	0.00417	ND	U	0.00753	ND	U	0.00685
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.25		0.68	5.41		0.66	4.91		0.65	4.61		0.65	6.6		0.65	7.51		0.69	4.94		0.65	5.36		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP306			DP306			DP306			DP306			DP306			DP307			DP307			DP307		
			SAMPLE NO	FFOR1709			FFOR1710			FFOR1711			FFOR1712			FFOR1713			FFOR1714			FFOR1715			FFOR1716		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	4	J	4.27	ND	U	4.33	1.89	J	4.42	ND	U	4.45	ND	U	4.23	1.5	J	4.25	ND	U	4.25	ND	U	4.35
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.78	ND	U	5	ND	U	5.14	ND	U	4.5	ND	U	4.95	ND	U	5.46	ND	U	4.58	ND	U	4.66
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	2-NITROPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.715	ND	U	0.729	ND	U	0.737	ND	U	0.71	ND	U	0.711	ND	U	0.707	ND	U	0.718
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	ACENAPHTHENE	338	3,440	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP306			DP306			DP306			DP306			DP306			DP307			DP307			DP307		
			SAMPLE NO	FFOR1709			FFOR1710			FFOR1711			FFOR1712			FFOR1713			FFOR1714			FFOR1715			FFOR1716		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.79	ND	U	1.82	ND	U	1.84	ND	U	1.78	ND	U	1.78	ND	U	1.77	ND	U	1.8
	PHENANTHRENE	571	1,830	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.352	ND	U	0.357	ND	U	0.365	ND	U	0.369	ND	U	0.355	ND	U	0.355	ND	U	0.353	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	1-CHLOROHEXANE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	UJ	0.00169	ND	UJ	0.00182
	2-BUTANONE	25.5	37,100	ND	U	0.00538	ND	U	0.0042	ND	U	0.00429	ND	U	0.00626	ND	U	0.00415	ND	U	0.00515	ND	U	0.00424	ND	U	0.00454
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	2-HEXANONE	NE	NE	ND	U	0.00538	ND	U	0.0042	ND	U	0.00429	ND	U	0.00626	ND	U	0.00415	ND	U	0.00515	ND	U	0.00424	ND	U	0.00454
	2-PROPENAL	0.000146	0.404	ND	U	0.0269	ND	U	0.021	ND	U	0.0214	ND	U	0.0313	ND	U	0.0207	ND	U	0.0257	ND	U	0.0212	ND	U	0.0227
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0269	ND	U	0.021	ND	U	0.0214	ND	U	0.0313	ND	U	0.0207	ND	U	0.0257	ND	U	0.0212	ND	U	0.0227
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00538	ND	U	0.0042	ND	U	0.00429	ND	U	0.00626	ND	U	0.00415	ND	U	0.00515	ND	U	0.00424	ND	U	0.00454
	ACETONE	77.1	66,600	0.0103	J	0.0269	0.00587	J	0.021	0.00464	J	0.0214	0.0118	J	0.0313	0.00837	J	0.0207	0.0193	J	0.0257	0.00855	J	0.0212	0.00998	J	0.0227
	BENZENE	0.0345	15.4	ND	U	0.00215	ND	U	0.00168	0.00127	J	0.00172	ND	U	0.0025	0.000734	J	0.00166	ND	U	0.00206	0.000173	J	0.00169	0.00128	J	0.00182
	BROMOBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	BROMOFORM	12.1	6,116	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	BROMOMETHANE	0.0385	16.5	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	UJ	0.00169	ND	UJ	0.00182
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CHLOROBENZENE	0.984	376	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CHLOROETHANE	107	29,800	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CHLOROFORM	0.00918	5.86	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CHLOROMETHANE	0.879	275	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	ETHYLBENZENE	0.26	68.4	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	M,P-XYLENES	NE	NE	ND	U	0.0043	ND	U	0.00336	0.000952	J	0.00343	ND	U	0.00501	ND	U	0.00332	ND	U	0.00412	ND	U	0.00339	ND	U	0.00363
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	UJ	0.00169	ND	UJ	0.00182
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00538	ND	U	0.0042	ND	U	0.00429	ND	U	0.00626	ND	U	0.00415	ND	U	0.00515	ND	U	0.00424	ND	U	0.00454
	NAPHTHALENE	0.0713	43.0	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	N-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	N-PROPYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	O-XYLENE	3.13	898	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP306			DP306			DP306			DP306			DP306			DP307			DP307			DP307		
		SAMPLE NO		FFOR1709			FFOR1710			FFOR1711			FFOR1712			FFOR1713			FFOR1714			FFOR1715			FFOR1716		
		SAMPLE DATE		26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	STYRENE	27.7	7,280	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TOLUENE	25.3	5,270	ND	U	0.00215	ND	U	0.00168	0.00177		0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	0.000363	J	0.00169	0.00157	J	0.00182
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	VINYL ACETATE	1.52	2,560	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00215	ND	U	0.00168	ND	U	0.00172	ND	U	0.0025	ND	U	0.00166	ND	U	0.00206	ND	U	0.00169	ND	U	0.00182
	XYLENES	3.13	814	ND	U	0.00645	ND	U	0.00504	0.000952	J	0.00515	ND	U	0.00751	ND	U	0.00498	ND	U	0.00618	ND	U	0.00508	ND	U	0.00545
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	16.1		0.64	3.82		0.65	7.89		0.66	6.5		0.67	6.26		0.65	10.8		0.65	5.34		0.64	5.69		0.65

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP307			DP307			DP307			DP308			DP308			DP308			DP308			DP308		
			SAMPLE NO	FFOR1717			FFOR1718			FFOR1719			FFOR1720			FFOR1721			FFOR1722			FFOR1723			FFOR1724		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.3	ND	U	4.48	ND	U	4.3	1.75	J	4.33	ND	U	4.2	ND	U	4.16	ND	U	4.26	ND	U	4.17
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.27	ND	U	4.7	ND	U	4.13	ND	U	4.47	ND	U	4.66	ND	U	5.33	ND	U	5.55	ND	U	4.35
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,4-DINITROPHENOL	1.26	122	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2-CHLOROPHENOL	2.31	391	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	2-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	2-NITROPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.702	ND	U	0.733	ND	U	0.702	ND	U	0.726	ND	U	0.693	ND	U	0.698	ND	U	0.703	ND	U	0.688
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	3-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	4-CHLOROANILINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	4-NITROANILINE	NE	NE	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	4-NITROPHENOL	NE	NE	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	ACENAPHTHENE	338	3,440	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	ACENAPHTHYLENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	ANTHRACENE	5,410	17,200	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZENAMINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	CARBAZOLE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	CHRYSENE	160	147	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DIBENZOFURAN	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DIETHYL PHTHALATE	193	48,900	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	FLUORANTHENE	2,430	2,290	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	FLUORENE	406	2,290	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	ISOPHORONE	3.84	5,120	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	NAPHTHALENE	0.0713	43.0	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	NITROBENZENE	0.0125	53.5	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP307			DP307			DP307			DP308			DP308			DP308			DP308			DP308		
			SAMPLE NO	FFOR1717			FFOR1718			FFOR1719			FFOR1720			FFOR1721			FFOR1722			FFOR1723			FFOR1724		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.75	ND	U	1.83	ND	U	1.75	ND	U	1.82	ND	U	1.73	ND	U	1.74	ND	U	1.76	ND	U	1.72
	PHENANTHRENE	571	1,830	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	PHENOL	99.5	18,300	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	PYRENE	1,790	1,720	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
	PYRIDINE	NE	NE	ND	U	0.351	ND	U	0.366	ND	U	0.351	ND	U	0.363	ND	U	0.346	ND	U	0.349	ND	U	0.352	ND	U	0.344
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	1-CHLOROHEXANE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00176	ND	UJ	0.00173	ND	UJ	0.00148	ND	UJ	0.00181	ND	UJ	0.00175	ND	UJ	0.00172	ND	UJ	0.00168	ND	UJ	0.00222
	2-BUTANONE	25.5	37,100	ND	U	0.0044	ND	U	0.00433	ND	U	0.00371	ND	U	0.00453	ND	U	0.00437	ND	U	0.0043	ND	U	0.00421	ND	U	0.00554
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	2-HEXANONE	NE	NE	ND	U	0.0044	ND	U	0.00433	ND	U	0.00371	ND	U	0.00453	ND	U	0.00437	ND	U	0.0043	ND	U	0.00421	ND	U	0.00554
	2-PROPENAL	0.000146	0.404	ND	U	0.022	ND	U	0.0217	ND	U	0.0185	ND	U	0.0227	ND	U	0.0219	ND	U	0.0215	ND	U	0.021	ND	U	0.0277
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.022	ND	U	0.0217	ND	U	0.0185	ND	U	0.0227	ND	U	0.0219	ND	U	0.0215	ND	U	0.021	ND	U	0.0277
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0044	ND	U	0.00433	ND	U	0.00371	ND	U	0.00453	ND	U	0.00437	ND	U	0.0043	ND	U	0.00421	ND	U	0.00554
	ACETONE	77.1	66,600	0.00956	J	0.022	0.00601	J	0.0217	0.00494	J	0.0185	0.00572	J	0.0227	0.0255		0.0219	0.00701	J	0.0215	0.00844	J	0.021	0.0126	J	0.0277
	BENZENE	0.0345	15.4	0.0014	J	0.00176	0.000139	J	0.00173	0.000376	J	0.00148	ND	U	0.00181	0.000234	J	0.00175	0.00194		0.00172	0.00029	J	0.00168	0.000326	J	0.00222
	BROMOBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	BROMOFORM	12.1	6,116	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00176	ND	UJ	0.00173	ND	UJ	0.00148	ND	UJ	0.00181	ND	UJ	0.00175	ND	UJ	0.00172	ND	UJ	0.00168	ND	UJ	0.00222
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CHLOROBENZENE	0.984	376	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CHLOROETHANE	107	29,800	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CHLOROFORM	0.00918	5.86	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CHLOROMETHANE	0.879	275	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	ETHYLBENZENE	0.26	68.4	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	M,P-XYLENES	NE	NE	ND	U	0.00352	ND	U	0.00347	ND	U	0.00297	ND	U	0.00362	ND	U	0.0035	ND	U	0.00344	ND	U	0.00337	ND	U	0.00443
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00176	ND	UJ	0.00173	ND	UJ	0.00148	ND	UJ	0.00181	ND	UJ	0.00175	ND	UJ	0.00172	ND	UJ	0.00168	ND	UJ	0.00222
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0044	ND	U	0.00433	ND	U	0.00371	ND	U	0.00453	ND	U	0.00437	ND	U	0.0043	ND	U	0.00421	ND	U	0.00554
	NAPHTHALENE	0.0713	43.0	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	N-BUTYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	N-PROPYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	O-XYLENE	3.13	898	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP307			DP307			DP307			DP308			DP308			DP308			DP308			DP308		
		SAMPLE NO		FFOR1717			FFOR1718			FFOR1719			FFOR1720			FFOR1721			FFOR1722			FFOR1723			FFOR1724		
		SAMPLE DATE		26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	STYRENE	27.7	7,280	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TOLUENE	25.3	5,270	0.00214		0.00176	0.000406	J	0.00173	0.000632	J	0.00148	ND	U	0.00181	0.000483	J	0.00175	0.00253		0.00172	0.000492	J	0.00168	0.000751	J	0.00222
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	VINYL ACETATE	1.52	2,560	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00176	ND	U	0.00173	ND	U	0.00148	ND	U	0.00181	ND	U	0.00175	ND	U	0.00172	ND	U	0.00168	ND	U	0.00222
	XYLENES	3.13	814	ND	U	0.00527	ND	U	0.0052	ND	U	0.00445	ND	U	0.00544	ND	U	0.00525	ND	U	0.00516	ND	U	0.00505	ND	U	0.00665
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	7.65		0.64	6.82		0.67	5.52		0.64	12.5		0.66	4.23		0.63	5.77		0.63	5.02		0.64	4.72		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP309			DP309			DP309			DP309			DP309			DP309			DP310			DP310		
				SAMPLE NO	FFOR1725			FFOR1726			FFOR1727			FFOR1728			FFOR1729			FFOR1730			FFOR1731			FFOR1732		
				SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			27-Jul-11			27-Jul-11		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
				SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	1.51	J	4.34	ND	U	4.26	ND	U	4.19	ND	U	4.33	ND	U	4.15	ND	U	4.21	248		21.9	361		44
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.75	ND	U	4.63	ND	U	4.01	ND	U	4.79	ND	U	4.5	ND	U	4.4	ND	U	10	ND	U	13
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	UJ	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.79	ND	U	1.73	ND	UJ	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.717	ND	U	0.692	ND	U	0.692	ND	U	0.702	ND	U	0.696	ND	U	0.695	ND	U	0.721	ND	U	0.728
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZENAMINE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	CHRYSENE	160	147	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP309			DP309			DP309			DP309			DP309			DP309			DP310			DP310		
			SAMPLE NO	FFOR1725			FFOR1726			FFOR1727			FFOR1728			FFOR1729			FFOR1730			FFOR1731			FFOR1732		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.79	ND	U	1.73	ND	U	1.73	ND	U	1.76	ND	U	1.74	ND	U	1.74	ND	U	1.8	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	0.0418	J	0.361	0.0343	J	0.364
	PYRIDINE	NE	NE	ND	U	0.358	ND	U	0.346	ND	U	0.346	ND	U	0.351	ND	U	0.348	ND	U	0.347	ND	U	0.361	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	1-CHLOROHEXANE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00172	ND	UJ	0.00184	ND	U	0.0021	ND	UJ	0.00187	ND	UJ	0.00164	ND	U	0.00198	ND	U	0.00249	ND	UJ	0.00254
	2-BUTANONE	25.5	37,100	ND	U	0.00429	ND	U	0.0046	ND	U	0.00525	ND	U	0.00469	ND	U	0.00409	0.00474	J	0.00494	ND	U	0.00622	ND	U	0.00635
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	2-HEXANONE	NE	NE	ND	U	0.00429	ND	U	0.0046	ND	U	0.00525	ND	U	0.00469	ND	U	0.00409	ND	U	0.00494	ND	U	0.00622	ND	U	0.00635
	2-PROPENAL	0.000146	0.404	ND	U	0.0215	ND	U	0.023	ND	UJ	0.0263	ND	U	0.0234	ND	U	0.0205	ND	UJ	0.0247	ND	UJ	0.0311	ND	U	0.0318
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0215	ND	U	0.023	ND	U	0.0263	ND	U	0.0234	ND	U	0.0205	ND	U	0.0247	ND	U	0.0311	ND	U	0.0318
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00429	ND	U	0.0046	ND	U	0.00525	ND	U	0.00469	ND	U	0.00409	ND	U	0.00494	ND	U	0.00622	ND	U	0.00635
	ACETONE	77.1	66,600	0.00444	J	0.0215	0.00762	J	0.023	0.0109	J	0.0263	0.0111	J	0.0234	0.00825	J	0.0205	0.0153	J	0.0247	0.0175	J	0.0311	0.0355		0.0318
	BENZENE	0.0345	15.4	ND	U	0.00172	0.000107	J	0.00184	0.00107	J	0.0021	0.000347	J	0.00187	0.0003	J	0.00164	0.00136	J	0.00198	0.00214	J	0.00249	ND	U	0.00254
	BROMOBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	BROMOFORM	12.1	6,116	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00172	ND	UJ	0.00184	ND	U	0.0021	ND	UJ	0.00187	ND	UJ	0.00164	ND	U	0.00198	ND	U	0.00249	ND	UJ	0.00254
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CHLOROBENZENE	0.984	376	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CHLOROETHANE	107	29,800	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CHLOROFORM	0.00918	5.86	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CHLOROMETHANE	0.879	275	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	ETHYLBENZENE	0.26	68.4	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	M,P-XYLENES	NE	NE	ND	U	0.00344	ND	U	0.00368	ND	U	0.0042	ND	U	0.00375	ND	U	0.00327	ND	U	0.00395	ND	U	0.00497	ND	U	0.00508
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00172	ND	UJ	0.00184	ND	U	0.0021	ND	UJ	0.00187	ND	UJ	0.00164	ND	U	0.00198	ND	U	0.00249	ND	UJ	0.00254
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00429	ND	U	0.0046	ND	U	0.00525	ND	U	0.00469	ND	U	0.00409	ND	U	0.00494	ND	U	0.00622	ND	U	0.00635
	NAPHTHALENE	0.0713	43.0	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	N-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	N-PROPYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	O-XYLENE	3.13	898	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254

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			LOCATION CODE	DP309			DP309			DP309			DP309			DP309			DP309			DP310			DP310		
			SAMPLE NO	FFOR1725			FFOR1726			FFOR1727			FFOR1728			FFOR1729			FFOR1730			FFOR1731			FFOR1732		
			SAMPLE DATE	26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			26-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			FD		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT			0-1 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	STYRENE	27.7	7,280	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TOLUENE	25.3	5,270	ND	U	0.00172	0.000421	J	0.00184	0.00118	J	0.0021	0.000738	J	0.00187	0.00062	J	0.00164	0.00179	J	0.00198	ND	U	0.00249	0.00138	J	0.00254
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	VINYL ACETATE	1.52	2,560	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00172	ND	U	0.00184	ND	U	0.0021	ND	U	0.00187	ND	U	0.00164	ND	U	0.00198	ND	U	0.00249	ND	U	0.00254
	XYLENES	3.13	814	ND	U	0.00515	ND	U	0.00552	ND	U	0.0063	ND	U	0.00562	ND	U	0.00491	ND	U	0.00593	ND	U	0.00746	ND	U	0.00762
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.03		0.65	4.59		0.64	6.48	J	0.63	5.57		0.65	5.75		0.63	4.06		0.63	42.6	J	1.31	23.6	J	1.32

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP310			DP310			DP310			DP310			DP311			DP311			DP311			DP311		
			SAMPLE NO	FFOR1733			FFOR1734			FFOR1735			FFOR1736			FFOR1737			FFOR1738			FFOR1739			FFOR1740		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	3.53	J	4.27	1.62	J	4.6	ND	U	4.22	ND	U	4.28	ND	U	4.3	ND	U	4.29	ND	U	4.26	ND	U	4.49
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.11	ND	U	6.48	ND	U	6.24	ND	U	7.03	ND	U	5.29	ND	U	10.5	ND	U	5.9	ND	U	4.78
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2-CHLOROPHENOL	2.31	391	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	2-NITROPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.697	ND	U	0.76	ND	U	0.704	ND	U	0.707	ND	U	0.698	ND	U	0.707	ND	U	0.691	ND	U	0.753
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	4-CHLOROANILINE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	ACENAPHTHENE	338	3,440	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	ACENAPHTHYLENE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	ANTHRACENE	5,410	17,200	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZENAMINE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.349	0.0357	J	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	CARBAZOLE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	CHRYSENE	160	147	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DIBENZOFURAN	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DIETHYL PHTHALATE	193	48,900	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	FLUORANTHENE	2,430	2,290	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	FLUORENE	406	2,290	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	ISOPHORONE	3.84	5,120	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	NAPHTHALENE	0.0713	43.0	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	NITROBENZENE	0.0125	53.5	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP310			DP310			DP310			DP310			DP311			DP311			DP311			DP311		
			SAMPLE NO	FFOR1733			FFOR1734			FFOR1735			FFOR1736			FFOR1737			FFOR1738			FFOR1739			FFOR1740		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.349	ND	U	0.38	0.119	J	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.9	ND	U	1.76	ND	U	1.77	ND	U	1.74	ND	U	1.77	ND	U	1.73	ND	U	1.88
	PHENANTHRENE	571	1,830	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	PHENOL	99.5	18,300	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	PYRENE	1,790	1,720	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
	PYRIDINE	NE	NE	ND	U	0.349	ND	U	0.38	ND	U	0.352	ND	U	0.353	ND	U	0.349	ND	U	0.354	ND	U	0.345	ND	U	0.377
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	1-CHLOROHEXANE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00238	ND	UJ	0.00232	ND	UJ	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	2-BUTANONE	25.5	37,100	ND	U	0.00594	ND	U	0.0058	ND	U	0.00635	0.00471	J	0.00576	ND	U	0.0672	0.00223	J	0.00553	0.00499	J	0.0161	ND	U	0.00461
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	2-HEXANONE	NE	NE	ND	U	0.00594	ND	U	0.0058	ND	U	0.00635	ND	U	0.00576	ND	U	0.0672	ND	U	0.00553	ND	U	0.0161	ND	U	0.00461
	2-PROPENAL	0.000146	0.404	ND	U	0.0297	ND	U	0.029	ND	U	0.0317	ND	UJ	0.0288	ND	UJ	0.336	ND	UJ	0.0277	ND	UJ	0.0806	ND	UJ	0.023
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0297	ND	U	0.029	ND	U	0.0317	ND	U	0.0288	ND	U	0.336	ND	U	0.0277	ND	U	0.0806	ND	U	0.023
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00594	ND	U	0.0058	ND	U	0.00635	ND	U	0.00576	ND	U	0.0672	ND	U	0.00553	ND	U	0.0161	ND	U	0.00461
	ACETONE	77.1	66,600	0.0253	J	0.0297	0.0203	J	0.029	0.0284	J	0.0317	0.0248	J	0.0288	0.0519	J	0.336	0.0118	J	0.0277	0.0404	J	0.0806	0.00592	J	0.023
	BENZENE	0.0345	15.4	0.000383	J	0.00238	0.00237		0.00232	0.000345	J	0.00254	0.00115	J	0.0023	0.00319	J	0.0269	ND	U	0.00221	0.00131	J	0.00645	0.00145	J	0.00184
	BROMOBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	BROMOFORM	12.1	6,116	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	0.00242		0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00238	ND	UJ	0.00232	ND	UJ	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CHLOROBENZENE	0.984	376	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CHLOROETHANE	107	29,800	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CHLOROFORM	0.00918	5.86	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CHLOROMETHANE	0.879	275	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	ETHYLBENZENE	0.26	68.4	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	M,P-XYLENES	NE	NE	ND	U	0.00475	ND	U	0.00464	ND	U	0.00508	ND	U	0.00461	ND	U	0.0537	ND	U	0.00443	ND	U	0.0129	ND	U	0.00369
	METHYL TERT-BUTYL ETHER	0.482	901	ND	UJ	0.00238	ND	UJ	0.00232	ND	UJ	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00594	ND	U	0.0058	ND	U	0.00635	ND	U	0.00576	ND	U	0.0672	ND	U	0.00553	ND	U	0.0161	ND	U	0.00461
	NAPHTHALENE	0.0713	43.0	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	N-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	N-PROPYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	O-XYLENE	3.13	898	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP310			DP310			DP310			DP310			DP311			DP311			DP311			DP311		
		SAMPLE NO		FFOR1733			FFOR1734			FFOR1735			FFOR1736			FFOR1737			FFOR1738			FFOR1739			FFOR1740		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	STYRENE	27.7	7,280	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TOLUENE	25.3	5,270	0.00124	J	0.00238	0.00277		0.00232	0.000949	J	0.00254	0.00171	J	0.0023	0.0062	J	0.0269	ND	U	0.00221	0.00198	J	0.00645	ND	U	0.00184
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	VINYL ACETATE	1.52	2,560	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00238	ND	U	0.00232	ND	U	0.00254	ND	U	0.0023	ND	U	0.0269	ND	U	0.00221	ND	U	0.00645	ND	U	0.00184
	XYLENES	3.13	814	ND	U	0.00713	ND	U	0.00696	ND	U	0.00762	ND	U	0.00691	ND	U	0.0806	ND	U	0.00664	ND	U	0.0193	ND	U	0.00553
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.07		0.64	10.1		0.69	4.72		0.63	5.52		0.64	4.53		0.64	5.63		0.64	4.06		0.64	10.8	J-	0.68

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP311			DP311			DP312			DP312			DP312			DP312			DP312			DP313		
			SAMPLE NO	FFOR1741			FFOR1742			FFOR1743			FFOR1744			FFOR1745			FFOR1746			FFOR1747			FFOR1748		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.22	ND	U	4.26	372		41.9	1010		85.2	548		46.3	11.3		4.31	1.64	J	4.24	12.7		4.21
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	8.79	ND	U	5.31	ND	U	5.29	38.1	J	4.96	108	J	6.45	4.7	J	5.47	1.4	J	4.84	ND	U	4.96
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	UJ	0.35	ND	UJ	0.344	ND	UJ	0.345
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.348	ND	U	0.349	ND	U	0.346	0.276	J	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,4-DINITROPHENOL	1.26	122	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2-CHLOROPHENOL	2.31	391	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	1.05		0.357	0.24	J	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	2-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	2-NITROPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.696	ND	U	0.698	ND	U	0.692	ND	U	0.715	ND	U	0.752	ND	U	0.699	ND	U	0.688	ND	U	0.69
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	0.0786	J	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	3-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	4-CHLOROANILINE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	4-NITROANILINE	NE	NE	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	4-NITROPHENOL	NE	NE	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	ACENAPHTHENE	338	3,440	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	ACENAPHTHYLENE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	ANTHRACENE	5,410	17,200	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BENZENAMINE	NE	NE	ND	UJ	0.348	ND	UJ	0.349	ND	UJ	0.346	ND	UJ	0.357	ND	UJ	0.376	ND	UJ	0.35	ND	UJ	0.344	ND	UJ	0.345
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	CARBAZOLE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	CHRYSENE	160	147	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DIBENZOFURAN	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	0.209	J	0.357	0.109	J	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DIETHYL PHTHALATE	193	48,900	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	FLUORANTHENE	2,430	2,290	ND	U	0.348	ND	U	0.349	0.0136	J	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	FLUORENE	406	2,290	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.348	ND	U	0.349	ND	U	3.46	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	ISOPHORONE	3.84	5,120	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	NAPHTHALENE	0.0713	43.0	ND	U	0.348	ND	U	0.349	ND	U	0.346	**0.17**	J	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	NITROBENZENE	0.0125	53.5	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP311			DP311			DP312			DP312			DP312			DP312			DP312			DP313		
			SAMPLE NO	FFOR1741			FFOR1742			FFOR1743			FFOR1744			FFOR1745			FFOR1746			FFOR1747			FFOR1748		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.74	ND	U	1.74	ND	U	1.73	ND	U	1.79	ND	U	1.88	ND	U	1.75	ND	U	1.72	ND	U	1.73
	PHENANTHRENE	571	1,830	ND	U	0.348	ND	U	0.349	0.0169	J	0.346	0.184	J	0.357	0.293	J	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	PHENOL	99.5	18,300	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	PYRENE	1,790	1,720	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
	PYRIDINE	NE	NE	ND	U	0.348	ND	U	0.349	ND	U	0.346	ND	U	0.357	ND	U	0.376	ND	U	0.35	ND	U	0.344	ND	U	0.345
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	0.0142		0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	0.0696		0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	1-CHLOROHEXANE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	UJ	0.00316	ND	UJ	0.00232	ND	U	0.126	ND	UJ	0.00197	ND	UJ	0.0021	ND	UJ	0.00246
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	UJ	0.00316	ND	UJ	0.00232	ND	U	0.126	ND	UJ	0.00197	ND	UJ	0.0021	ND	UJ	0.00246
	2-BUTANONE	25.5	37,100	0.00508		0.00472	0.0071		0.00526	ND	U	0.00789	0.0653		0.0058	ND	U	0.315	ND	U	0.00493	ND	U	0.00525	0.0056	J	0.00614
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	2-HEXANONE	NE	NE	ND	U	0.00472	ND	U	0.00526	ND	U	0.00789	ND	U	0.0058	ND	U	0.315	ND	U	0.00493	ND	U	0.00525	ND	U	0.00614
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0236	ND	UJ	0.0263	ND	U	0.0395	ND	UJ	0.029	ND	UJ	1.57	ND	U	0.0247	ND	U	0.0262	ND	U	0.0307
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0236	ND	U	0.0263	ND	U	0.0395	ND	U	0.029	ND	U	1.57	ND	U	0.0247	ND	U	0.0262	ND	U	0.0307
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00472	ND	U	0.00526	ND	U	0.00789	ND	U	0.0058	ND	U	0.315	ND	U	0.00493	ND	U	0.00525	ND	U	0.00614
	ACETONE	77.1	66,600	0.0164	J	0.0236	0.0135	J	0.0263	0.039	J	0.0395	0.165		0.029	0.148	J	1.57	0.0236	J	0.0247	0.0176	J	0.0262	0.0117	J	0.0307
	BENZENE	0.0345	15.4	0.0011	J	0.00189	0.000831	J	0.0021	0.0102		0.00316	0.00709		0.00232	0.028	J	0.126	0.000701	J	0.00197	0.00132	J	0.0021	0.000251	J	0.00246
	BROMOBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	BROMOFORM	12.1	6,116	0.000506	J	0.00189	0.000804	J	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	BROMOMETHANE	0.0385	16.5	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CHLOROBENZENE	0.984	376	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CHLOROETHANE	107	29,800	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CHLOROFORM	0.00918	5.86	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CHLOROMETHANE	0.879	275	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	ETHYLBENZENE	0.26	68.4	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	M,P-XYLENES	NE	NE	ND	U	0.00377	ND	U	0.00421	ND	U	0.00631	ND	U	0.00464	0.249	J	0.252	ND	U	0.00395	0.000492	J	0.0042	ND	U	0.00491
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00472	ND	U	0.00526	0.0118		0.00789	ND	U	0.0058	ND	U	0.315	ND	U	0.00493	ND	U	0.00525	ND	U	0.00614
	NAPHTHALENE	0.0713	43.0	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	**1.03**	J	0.112	**0.203**		0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	N-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	N-PROPYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	O-XYLENE	3.13	898	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP311			DP311			DP312			DP312			DP312			DP312			DP312			DP313		
			SAMPLE NO	FFOR1741			FFOR1742			FFOR1743			FFOR1744			FFOR1745			FFOR1746			FFOR1747			FFOR1748		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	STYRENE	27.7	7,280	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	**0.0143**	J	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TOLUENE	25.3	5,270	0.00178	J	0.00189	ND	U	0.0021	0.0022	J	0.00316	0.00155	J	0.00232	ND	U	0.126	0.000836	J	0.00197	0.00165	J	0.0021	0.000509	J	0.00246
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	VINYL ACETATE	1.52	2,560	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00189	ND	U	0.0021	ND	U	0.00316	ND	U	0.00232	ND	U	0.126	ND	U	0.00197	ND	U	0.0021	ND	U	0.00246
	XYLENES	3.13	814	ND	U	0.00566	ND	U	0.00631	ND	U	0.00947	ND	U	0.00696	0.249	J	0.378	ND	U	0.00592	0.000492	J	0.0063	ND	U	0.00737
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5.46		0.63	5.49		0.64	19.9		0.63	10		0.64	8.98		0.7	5.39		0.65	5.2		0.64	4.47		0.63

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP313			DP313			DP313			DP313			DP313			DP314			DP314			DP314		
			SAMPLE NO	FFOR1749			FFOR1750			FFOR1751			FFOR1752			FFOR1753			FFOR1754			FFOR1755			FFOR1756		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg)	DIESEL RANGE ORGANICS	NE	1,000 [d]	26.9		4.17	2.82	J	4.58	3.73	J	4.5	ND	U	4.26	1.54	J	4.19	8.64		4.2	32		4.22	3.81	J	4.41
EPA Method 8015B	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.31	ND	U	6.5	ND	U	6.04	ND	U	4.12	ND	U	4.4	ND	U	6.15	ND	U	4.41	ND	U	4.06
SVOCs (mg/kg)	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
EPA Method 8270C	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.346	ND	UJ	0.382	ND	UJ	0.366	ND	UJ	0.357	ND	UJ	0.341	ND	UJ	0.347	ND	UJ	0.348	ND	UJ	0.364
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,4-DINITROPHENOL	1.26	122	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2-CHLOROPHENOL	2.31	391	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	2-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	2-NITROPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.693	ND	U	0.763	ND	U	0.733	ND	U	0.715	ND	U	0.682	ND	U	0.694	ND	U	0.697	ND	U	0.728
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	3-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	4-CHLOROANILINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	4-NITROANILINE	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	4-NITROPHENOL	NE	NE	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	ACENAPHTHENE	338	3,440	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	ACENAPHTHYLENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	ANTHRACENE	5,410	17,200	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BENZENAMINE	NE	NE	ND	UJ	0.346	ND	UJ	0.382	ND	UJ	0.366	ND	UJ	0.357	ND	UJ	0.341	ND	UJ	0.347	ND	UJ	0.348	ND	UJ	0.364
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.346	ND	U	0.382	ND	U	0.366	0.131	J	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	CARBAZOLE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	CHRYSENE	160	147	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DIBENZOFURAN	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DIETHYL PHTHALATE	193	48,900	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	FLUORANTHENE	2,430	2,290	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	FLUORENE	406	2,290	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	ISOPHORONE	3.84	5,120	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	NAPHTHALENE	0.0713	43.0	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	NITROBENZENE	0.0125	53.5	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP313			DP313			DP313			DP313			DP313			DP314			DP314			DP314		
		SAMPLE NO		FFOR1749			FFOR1750			FFOR1751			FFOR1752			FFOR1753			FFOR1754			FFOR1755			FFOR1756		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
		SAMPLE PURPOSE		REG			REG			FD			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.73	ND	U	1.91	ND	U	1.83	ND	U	1.79	ND	U	1.71	ND	U	1.73	ND	U	1.74	ND	U	1.82
	PHENANTHRENE	571	1,830	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	PHENOL	99.5	18,300	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	PYRENE	1,790	1,720	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
	PYRIDINE	NE	NE	ND	U	0.346	ND	U	0.382	ND	U	0.366	ND	U	0.357	ND	U	0.341	ND	U	0.347	ND	U	0.348	ND	U	0.364
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.00179	ND	UJ	0.00227	ND	UJ	0.00226	ND	UJ	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.00179	ND	UJ	0.00227	ND	UJ	0.00226	ND	UJ	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	2-BUTANONE	25.5	37,100	ND	U	0.00449	ND	U	0.00568	ND	U	0.00565	ND	U	0.00474	ND	U	0.00479	ND	U	0.00603	ND	U	0.00476	ND	U	0.00443
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	2-HEXANONE	NE	NE	ND	U	0.00449	ND	U	0.00568	ND	U	0.00565	ND	U	0.00474	ND	U	0.00479	ND	U	0.00603	ND	U	0.00476	ND	U	0.00443
	2-PROPENAL	0.000146	0.404	ND	U	0.0224	ND	U	0.0284	ND	U	0.0282	ND	U	0.0237	ND	U	0.0239	ND	U	0.0301	ND	U	0.0238	ND	U	0.0222
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0224	ND	U	0.0284	ND	U	0.0282	ND	U	0.0237	ND	U	0.0239	ND	U	0.0301	ND	U	0.0238	ND	U	0.0222
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00449	ND	U	0.00568	ND	U	0.00565	ND	U	0.00474	ND	U	0.00479	ND	U	0.00603	ND	U	0.00476	ND	U	0.00443
	ACETONE	77.1	66,600	0.0084	J	0.0224	0.00514	J	0.0284	0.00587	J	0.0282	0.0096	J	0.0237	0.0129	J	0.0239	0.00992	J	0.0301	0.00844	J	0.0238	0.00542	J	0.0222
	BENZENE	0.0345	15.4	0.000422	J	0.00179	0.0013	J	0.00227	0.00216	J	0.00226	0.000247	J	0.0019	0.00129	J	0.00192	ND	U	0.00241	0.000318	J	0.00191	0.000649	J	0.00177
	BROMOBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	BROMOFORM	12.1	6,116	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	0.00398		0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	BROMOMETHANE	0.0385	16.5	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CHLOROBENZENE	0.984	376	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CHLOROETHANE	107	29,800	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CHLOROFORM	0.00918	5.86	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CHLOROMETHANE	0.879	275	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	0.00127	J	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	ETHYLBENZENE	0.26	68.4	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	M,P-XYLENES	NE	NE	ND	U	0.00359	0.00094	J	0.00454	0.0016	J	0.00452	ND	U	0.00379	ND	U	0.00383	ND	U	0.00482	ND	U	0.00381	ND	U	0.00355
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00449	ND	U	0.00568	ND	U	0.00565	ND	U	0.00474	ND	U	0.00479	ND	U	0.00603	ND	U	0.00476	ND	U	0.00443
	NAPHTHALENE	0.0713	43.0	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	N-BUTYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	N-PROPYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	O-XYLENE	3.13	898	ND	U	0.00179	0.000232	J	0.00227	0.000415	J	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP313			DP313			DP313			DP313			DP313			DP314			DP314			DP314		
				SAMPLE NO	FFOR1749			FFOR1750			FFOR1751			FFOR1752			FFOR1753			FFOR1754			FFOR1755			FFOR1756		
				SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
				SAMPLE PURPOSE	REG			REG			FD			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	5-6 FT			10-11 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	STYRENE	27.7	7,280	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TOLUENE	25.3	5,270	0.000506	J	0.00179	0.00171	J	0.00227	0.00285		0.00226	0.000525	J	0.0019	0.00185	J	0.00192	0.000526	J	0.00241	0.000861	J	0.00191	0.00128	J	0.00177
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	VINYL ACETATE	1.52	2,560	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00179	ND	U	0.00227	ND	U	0.00226	ND	U	0.0019	ND	U	0.00192	ND	U	0.00241	ND	U	0.00191	ND	U	0.00177
	XYLENES	3.13	814	ND	U	0.00538	0.00117	J	0.00682	0.00201	J	0.00678	ND	U	0.00569	ND	U	0.00575	ND	U	0.00723	ND	U	0.00572	ND	U	0.00532
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	9.71		0.64	8.84		0.69	7.74		0.67	4.56		0.65	4.49		0.63	8.58		0.63	5.26		0.63	7.06		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP314			DP314			DP315			DP315			DP315			DP315			DP315			DP315		
			SAMPLE NO	FFOR1757			FFOR1758			FFOR1759			FFOR1760			FFOR1761			FFOR1762			FFOR1763			FFOR1764		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.87	J	4.27	ND	U	4.21	62		8.6	3.87	J	4.19	2.11	J	4.49	ND	U	4.18	ND	U	4.13	ND	U	4.2
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	4.9	ND	U	4.48	ND	U	5.68	ND	U	4.42	ND	U	5.36	ND	U	4.85	ND	U	4.84	ND	U	5.83
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.353	ND	UJ	0.348	ND	UJ	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	UJ	0.34	ND	UJ	0.34
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2-CHLOROPHENOL	2.31	391	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	2-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	2-NITROPHENOL	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.705	ND	U	0.695	ND	U	3.55	ND	U	0.679	ND	U	0.729	ND	U	0.701	ND	U	0.681	ND	U	0.681
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	3-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	4-CHLOROANILINE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	4-NITROANILINE	NE	NE	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	4-NITROPHENOL	NE	NE	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	ACENAPHTHENE	338	3,440	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	ACENAPHTHYLENE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	ANTHRACENE	5,410	17,200	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZENAMINE	NE	NE	ND	UJ	0.353	ND	UJ	0.348	ND	UJ	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	CARBAZOLE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	CHRYSENE	160	147	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DIBENZOFURAN	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DIETHYL PHTHALATE	193	48,900	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	FLUORANTHENE	2,430	2,290	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	FLUORENE	406	2,290	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	ISOPHORONE	3.84	5,120	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	NAPHTHALENE	0.0713	43.0	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	NITROBENZENE	0.0125	53.5	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP314			DP314			DP315			DP315			DP315			DP315			DP315			DP315		
			SAMPLE NO	FFOR1757			FFOR1758			FFOR1759			FFOR1760			FFOR1761			FFOR1762			FFOR1763			FFOR1764		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
			SAMPLE DEPTH	15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	ND	U	1.74	ND	U	8.87	ND	U	1.7	ND	U	1.82	ND	U	1.75	ND	U	1.7	ND	U	1.7
	PHENANTHRENE	571	1,830	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	PHENOL	99.5	18,300	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	PYRENE	1,790	1,720	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
	PYRIDINE	NE	NE	ND	U	0.353	ND	U	0.348	ND	U	1.77	ND	U	0.34	ND	U	0.365	ND	U	0.35	ND	U	0.34	ND	U	0.34
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	1-CHLOROHEXANE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	UJ	0.00263	ND	U	0.00203	ND	UJ	0.00193	ND	UJ	0.00192	ND	UJ	0.00193	ND	UJ	0.00205
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	UJ	0.00193	ND	UJ	0.00192	ND	UJ	0.00193	ND	UJ	0.00205
	2-BUTANONE	25.5	37,100	ND	U	0.00683	ND	U	0.00527	ND	UJ	0.00657	ND	U	0.00507	ND	U	0.00482	ND	U	0.0048	ND	U	0.00483	ND	U	0.00513
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	2-HEXANONE	NE	NE	ND	U	0.00683	ND	U	0.00527	ND	U	0.00657	ND	U	0.00507	ND	U	0.00482	ND	U	0.0048	ND	U	0.00483	ND	U	0.00513
	2-PROPENAL	0.000146	0.404	ND	U	0.0342	ND	U	0.0263	ND	UJ	0.0329	ND	U	0.0253	ND	U	0.0241	ND	U	0.024	ND	U	0.0241	ND	U	0.0257
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0342	ND	U	0.0263	ND	U	0.0329	ND	U	0.0253	ND	U	0.0241	ND	U	0.024	ND	U	0.0241	ND	U	0.0257
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00683	ND	U	0.00527	ND	UJ	0.00657	ND	U	0.00507	ND	U	0.00482	ND	U	0.0048	ND	U	0.00483	ND	U	0.00513
	ACETONE	77.1	66,600	0.0173	J	0.0342	0.0201	J	0.0263	0.0167	J	0.0329	0.012	J	0.0253	0.00503	J	0.0241	0.00329	J	0.024	0.0123	J	0.0241	0.00972	J	0.0257
	BENZENE	0.0345	15.4	0.000275	J	0.00273	0.00143	J	0.00211	0.00474		0.00263	0.000339	J	0.00203	0.00106	J	0.00193	0.000199	J	0.00192	0.000852	J	0.00193	0.00123	J	0.00205
	BROMOBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	BROMOFORM	12.1	6,116	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	BROMOMETHANE	0.0385	16.5	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CHLOROBENZENE	0.984	376	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CHLOROETHANE	107	29,800	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CHLOROFORM	0.00918	5.86	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CHLOROMETHANE	0.879	275	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	ETHYLBENZENE	0.26	68.4	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	M,P-XYLENES	NE	NE	ND	U	0.00547	ND	U	0.00421	ND	UJ	0.00526	ND	U	0.00406	0.000829	J	0.00385	ND	U	0.00384	0.000757	J	0.00386	0.000586	J	0.00411
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00683	ND	U	0.00527	ND	UJ	0.00657	ND	U	0.00507	ND	U	0.00482	ND	U	0.0048	ND	U	0.00483	ND	U	0.00513
	NAPHTHALENE	0.0713	43.0	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	N-BUTYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	N-PROPYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	O-XYLENE	3.13	898	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	0.000197	J	0.00193	ND	U	0.00192	0.000194	J	0.00193	ND	U	0.00205

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP314			DP314			DP315			DP315			DP315			DP315			DP315			DP315			DP315		
		SAMPLE NO		FFOR1757			FFOR1758			FFOR1759			FFOR1760			FFOR1761			FFOR1762			FFOR1763			FFOR1764		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	STYRENE	27.7	7,280	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TOLUENE	25.3	5,270	0.000906	J	0.00273	0.00251		0.00211	0.00116	J	0.00263	0.000716	J	0.00203	0.00153	J	0.00193	0.00041	J	0.00192	0.00138	J	0.00193	0.00162	J	0.00205
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	VINYL ACETATE	1.52	2,560	ND	U	0.00273	ND	U	0.00211	ND	U	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00273	ND	U	0.00211	ND	UJ	0.00263	ND	U	0.00203	ND	U	0.00193	ND	U	0.00192	ND	U	0.00193	ND	U	0.00205
	XYLENES	3.13	814	ND	U	0.0082	ND	U	0.00632	ND	U	0.00789	ND	U	0.00608	0.00103	J	0.00578	ND	U	0.00576	0.000951	J	0.00579	0.000586	J	0.00616
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	4.33		0.64	5.2		0.63	6.57	J-	0.65	3.99		0.63	7.56		0.67	4.45		0.64	4.91		0.63	4.96		0.62

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP316			DP316			DP316			DP316			DP316			DP317			DP317			DP317		
			SAMPLE NO	FFOR1765			FFOR1766			FFOR1767			FFOR1768			FFOR1769			FFOR1770			FFOR1771			FFOR1772		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
			SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	30.4		4.18	18.9		4.13	ND	U	4.43	2.24	J	4.23	ND	U	4.09	11.7		4.21	2.78	J	4.2	1.46	J	4.39
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.86	ND	U	5.29	ND	U	4.65	ND	U	5.23	ND	U	4.9	ND	U	4.78	ND	U	5.58	ND	U	4.22
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.344	ND	UJ	0.345	ND	UJ	0.366	ND	UJ	0.346	ND	UJ	0.343	ND	UJ	0.348	ND	UJ	0.343	ND	UJ	0.359
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,4-DINITROPHENOL	1.26	122	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2-CHLOROPHENOL	2.31	391	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	2-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	2-NITROPHENOL	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.687	ND	U	0.691	ND	U	0.732	ND	U	0.692	ND	U	0.685	ND	U	0.695	ND	U	0.686	ND	U	0.717
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	3-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	4-CHLOROANILINE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	4-NITROANILINE	NE	NE	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	4-NITROPHENOL	NE	NE	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	ACENAPHTHENE	338	3,440	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	ACENAPHTHYLENE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	ANTHRACENE	5,410	17,200	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZENAMINE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.344	0.0213	J	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	0.0293	J	0.343	ND	U	0.359
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	CARBAZOLE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	CHRYSENE	160	147	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DIBENZOFURAN	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DIETHYL PHTHALATE	193	48,900	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	FLUORANTHENE	2,430	2,290	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	FLUORENE	406	2,290	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	ISOPHORONE	3.84	5,120	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	NAPHTHALENE	0.0713	43.0	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	NITROBENZENE	0.0125	53.5	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP316			DP316			DP316			DP316			DP316			DP317			DP317			DP317		
		SAMPLE NO		FFOR1765			FFOR1766			FFOR1767			FFOR1768			FFOR1769			FFOR1770			FFOR1771			FFOR1772		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.72	ND	U	1.73	ND	U	1.83	ND	U	1.73	ND	U	1.71	ND	U	1.74	ND	U	1.71	ND	U	1.79
	PHENANTHRENE	571	1,830	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	PHENOL	99.5	18,300	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	PYRENE	1,790	1,720	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
	PYRIDINE	NE	NE	ND	U	0.344	ND	U	0.345	ND	U	0.366	ND	U	0.346	ND	U	0.343	ND	U	0.348	ND	U	0.343	ND	U	0.359
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	0.000694	J	0.00216
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	0.000394	J	0.00216
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	1-CHLOROHEXANE	NE	NE	ND	UJ	0.0049	ND	UJ	0.00214	ND	UJ	0.00189	ND	UJ	0.0018	ND	UJ	0.00184	ND	UJ	0.00185	ND	U	0.0019	ND	U	0.00216
	2,2-DICHLOROPROPANE	NE	NE	ND	UJ	0.0049	ND	UJ	0.00214	ND	UJ	0.00189	ND	UJ	0.0018	ND	UJ	0.00184	ND	UJ	0.00185	ND	U	0.0019	ND	U	0.00216
	2-BUTANONE	25.5	37,100	ND	U	0.0123	ND	U	0.00534	ND	U	0.00473	ND	U	0.00449	ND	U	0.00461	ND	U	0.00463	0.000835	J	0.00475	0.00273	J	0.00539
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	2-HEXANONE	NE	NE	ND	U	0.0123	ND	U	0.00534	ND	U	0.00473	ND	U	0.00449	ND	U	0.00461	ND	U	0.00463	ND	U	0.00475	ND	U	0.00539
	2-PROPENAL	0.000146	0.404	ND	U	0.0613	ND	U	0.0267	ND	U	0.0236	ND	U	0.0225	ND	U	0.0231	ND	U	0.0232	ND	UJ	0.0238	ND	UJ	0.027
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0613	ND	U	0.0267	ND	U	0.0236	ND	U	0.0225	ND	U	0.0231	ND	U	0.0232	ND	U	0.0238	ND	U	0.027
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.0123	ND	U	0.00534	ND	U	0.00473	ND	U	0.00449	ND	U	0.00461	ND	U	0.00463	ND	U	0.00475	ND	U	0.00539
	ACETONE	77.1	66,600	0.0237	J	0.0613	0.0102	J	0.0267	0.00443	J	0.0236	0.0101	J	0.0225	0.0135	J	0.0231	0.00694	J	0.0232	0.0047	J	0.0238	0.0102	J	0.027
	BENZENE	0.0345	15.4	0.00348	J	0.0049	0.00014	J	0.00214	0.000583	J	0.00189	ND	U	0.0018	0.00111	J	0.00184	ND	U	0.00185	0.000165	J	0.0019	0.00171	J	0.00216
	BROMOBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	BROMOFORM	12.1	6,116	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	BROMOMETHANE	0.0385	16.5	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CHLOROBENZENE	0.984	376	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CHLOROETHANE	107	29,800	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CHLOROFORM	0.00918	5.86	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CHLOROMETHANE	0.879	275	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	UJ	0.0019	ND	UJ	0.00216
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	ETHYLBENZENE	0.26	68.4	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	0.000401	J	0.00216
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	M,P-XYLENES	NE	NE	ND	U	0.00981	ND	U	0.00427	0.000369	J	0.00378	ND	U	0.00359	0.000466	J	0.00369	ND	U	0.00371	ND	U	0.0038	ND	U	0.00431
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	METHYLENE CHLORIDE	0.824	409	ND	U	0.0123	ND	U	0.00534	ND	U	0.00473	ND	U	0.00449	ND	U	0.00461	ND	U	0.00463	ND	U	0.00475	ND	U	0.00539
	NAPHTHALENE	0.0713	43.0	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	N-BUTYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	N-PROPYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	O-XYLENE	3.13	898	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	0.000375	J	0.00216

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP316			DP316			DP316			DP316			DP316			DP317			DP317			DP317		
		SAMPLE NO		FFOR1765			FFOR1766			FFOR1767			FFOR1768			FFOR1769			FFOR1770			FFOR1771			FFOR1772		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11			27-Jul-11		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	STYRENE	27.7	7,280	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TOLUENE	25.3	5,270	0.00191	J	0.0049	0.000484	J	0.00214	0.000898	J	0.00189	0.000464	J	0.0018	0.00143	J	0.00184	ND	U	0.00185	0.000375	J	0.0019	0.00238		0.00216
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	VINYL ACETATE	1.52	2,560	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0049	ND	U	0.00214	ND	U	0.00189	ND	U	0.0018	ND	U	0.00184	ND	U	0.00185	ND	U	0.0019	ND	U	0.00216
	XYLENES	3.13	814	ND	U	0.0147	ND	U	0.00641	ND	U	0.00567	ND	U	0.00539	0.000466	J	0.00553	ND	U	0.00556	ND	U	0.0057	ND	U	0.00647
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.44		0.63	4.12		0.63	6.73	J-	0.67	4.35		0.63	5.38		0.62	5.58		0.63	4.17		0.62	5.8		0.66

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP317			DP317			DP317			DP319			DP319			DP319			DP319			DP319		
		SAMPLE NO		FFOR1773			FFOR1774			FFOR1775			FFOR1781			FFOR1782			FFOR1783			FFOR1784			FFOR1785		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	2.02	J	4.38	1.99	J	4.24	ND	U	4.23	ND	U	4.39	ND	U	4.55	ND	U	4.42	ND	U	4.43	ND	U	4.28
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	6.42	ND	U	5.06	ND	U	3.38	ND	U	6.8	ND	U	7.02	ND	U	8	ND	U	7.05	ND	U	6.87
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	UJ	0.361	ND	UJ	0.35	ND	UJ	0.346	ND	UJ	0.356	ND	UJ	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,4-DINITROPHENOL	1.26	122	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2-CHLOROPHENOL	2.31	391	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	2-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	2-NITROPHENOL	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.722	ND	U	0.7	ND	U	0.693	ND	U	0.713	ND	U	0.75	ND	U	0.729	ND	U	0.731	ND	U	0.707
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	3-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	4-CHLOROANILINE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	4-NITROANILINE	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	4-NITROPHENOL	NE	NE	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	ACENAPHTHENE	338	3,440	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	ACENAPHTHYLENE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	ANTHRACENE	5,410	17,200	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZENAMINE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	CARBAZOLE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	CHRYSENE	160	147	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DIBENZOFURAN	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DIETHYL PHTHALATE	193	48,900	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	FLUORANTHENE	2,430	2,290	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	FLUORENE	406	2,290	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	ISOPHORONE	3.84	5,120	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	NAPHTHALENE	0.0713	43.0	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	NITROBENZENE	0.0125	53.5	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP317			DP317			DP317			DP319			DP319			DP319			DP319			DP319		
			SAMPLE NO	FFOR1773			FFOR1774			FFOR1775			FFOR1781			FFOR1782			FFOR1783			FFOR1784			FFOR1785		
			SAMPLE DATE	27-Jul-11			27-Jul-11			27-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.81	ND	U	1.75	ND	U	1.73	ND	U	1.78	ND	U	1.88	ND	U	1.82	ND	U	1.83	ND	U	1.77
	PHENANTHRENE	571	1,830	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	PHENOL	99.5	18,300	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	PYRENE	1,790	1,720	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
	PYRIDINE	NE	NE	ND	U	0.361	ND	U	0.35	ND	U	0.346	ND	U	0.356	ND	U	0.375	ND	U	0.364	ND	U	0.366	ND	U	0.354
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	UJ	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2,4-TRIMETHYLBENZENE	NE	NE	0.000386	J	0.0021	ND	U	0.00175	0.000317	J	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,3,5-TRIMETHYLBENZENE	NE	NE	0.000212	J	0.0021	ND	U	0.00175	0.000149	J	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	1-CHLOROHEXANE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	UJ	0.00221	ND	U	0.00235	ND	U	0.00213
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	2-BUTANONE	25.5	37,100	0.00241	J	0.00524	0.00388	J	0.00438	0.00635		0.0046	ND	U	0.00527	ND	U	0.0059	ND	U	0.00552	ND	U	0.00587	0.00778		0.00531
	2-CHLOROTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	2-HEXANONE	NE	NE	ND	U	0.00524	ND	U	0.00438	ND	U	0.0046	ND	U	0.00527	ND	U	0.0059	ND	U	0.00552	ND	U	0.00587	ND	U	0.00531
	2-PROPENAL	0.000146	0.404	ND	UJ	0.0262	ND	UJ	0.0219	ND	UJ	0.023	ND	U	0.0263	ND	U	0.0295	ND	U	0.0276	ND	U	0.0293	ND	U	0.0266
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0262	ND	U	0.0219	ND	U	0.023	ND	U	0.0263	ND	U	0.0295	ND	U	0.0276	ND	U	0.0293	ND	U	0.0266
	4-CHLOROTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00524	ND	U	0.00438	ND	U	0.0046	ND	U	0.00527	ND	U	0.0059	ND	U	0.00552	ND	U	0.00587	ND	U	0.00531
	ACETONE	77.1	66,600	0.00624	J	0.0262	0.00923	J	0.0219	0.0106	J	0.023	0.0164	J	0.0263	0.0136	J	0.0295	ND	U	0.0276	0.0155	J	0.0293	0.0185	J	0.0266
	BENZENE	0.0345	15.4	0.000962	J	0.0021	0.000471	J	0.00175	0.000942	J	0.00184	ND	U	0.00211	0.00078	J	0.00236	ND	U	0.00221	ND	U	0.00235	0.00251		0.00213
	BROMOBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	BROMOFORM	12.1	6,116	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	BROMOMETHANE	0.0385	16.5	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	UJ	0.00211	ND	UJ	0.00236	ND	UJ	0.00221	ND	UJ	0.00235	ND	UJ	0.00213
	CARBON DISULFIDE	5.65	1,530	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CHLOROBENZENE	0.984	376	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CHLOROETHANE	107	29,800	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CHLOROFORM	0.00918	5.86	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CHLOROMETHANE	0.879	275	ND	UJ	0.0021	ND	UJ	0.00175	ND	UJ	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	ETHYLBENZENE	0.26	68.4	0.000352	J	0.0021	0.000193	J	0.00175	0.000411	J	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	UJ	0.00221	ND	U	0.00235	ND	U	0.00213
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	M,P-XYLENES	NE	NE	ND	U	0.00419	ND	U	0.0035	ND	U	0.00368	ND	U	0.00422	ND	U	0.00472	ND	U	0.00442	ND	U	0.00469	ND	U	0.00425
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	METHYLENE CHLORIDE	0.824	409	ND	U	0.00524	ND	U	0.00438	ND	U	0.0046	ND	U	0.00527	ND	U	0.0059	ND	U	0.00552	ND	U	0.00587	0.0013	J	0.00531
	NAPHTHALENE	0.0713	43.0	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	N-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	UJ	0.00221	ND	U	0.00235	ND	U	0.00213
	N-PROPYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	O-XYLENE	3.13	898	0.00019	J	0.0021	ND	U	0.00175	0.000228	J	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213

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		LOCATION CODE		DP317			DP317			DP317			DP319			DP319			DP319			DP319			DP319		
		SAMPLE NO		FFOR1773			FFOR1774			FFOR1775			FFOR1781			FFOR1782			FFOR1783			FFOR1784			FFOR1785		
		SAMPLE DATE		27-Jul-11			27-Jul-11			27-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11			21-Jul-11		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		10-11 FT			15-16 FT			20-21 FT			0-1 FT			5-6 FT			10-11 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	UJ	0.00221	ND	U	0.00235	ND	U	0.00213
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	STYRENE	27.7	7,280	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TOLUENE	25.3	5,270	0.0014	J	0.0021	0.000688	J	0.00175	0.00152	J	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	0.000719	J	0.00235	ND	U	0.00213
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	VINYL ACETATE	1.52	2,560	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.0021	ND	U	0.00175	ND	U	0.00184	ND	U	0.00211	ND	U	0.00236	ND	U	0.00221	ND	U	0.00235	ND	U	0.00213
	XYLENES	3.13	814	ND	U	0.00629	ND	U	0.00525	ND	U	0.00552	ND	U	0.00632	ND	U	0.00708	ND	U	0.00663	ND	U	0.00704	ND	U	0.00638
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	6.61		0.66	4.49		0.64	4.52		0.63	4.57		0.66	4.19		0.68	6.05		0.66	6.4		0.66	4.95		0.64

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenuation Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				DP319			DP320			DP321			DP322			DP323			DP324			DP325			DP326		
			LOCATION CODE																								
			SAMPLE NO	FFOR1786			FFOR1787			FFOR1788			FFOR1789			FFOR1790			FFOR1791			FFOR1792			FFOR1793		
			SAMPLE DATE	21-Jul-11			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			15-16 FT			20-21 FT			0-1 FT			20-21 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	ND	U	4.28	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	ND	U	5.11	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	ND	U	0.704	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.352	ND	U	0.344	NS	--	--	NS	--	--	ND	U	0.348	NS	--	--	ND	U	0.369	NS	--	--
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	ND	U	0.352	NS	--	--	**7.62**		0.396	**20**		3.59	NS	--	--	**28.9**		3.65	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP319			DP320			DP321			DP322			DP323			DP324			DP325			DP326		
			SAMPLE NO	FFOR1786			FFOR1787			FFOR1788			FFOR1789			FFOR1790			FFOR1791			FFOR1792			FFOR1793		
			SAMPLE DATE	21-Jul-11			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			0-1 FT			15-16 FT			20-21 FT			0-1 FT			20-21 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	ND	U	1.76	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	ND	U	0.352	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	0.0115		0.00745	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	ND	U	0.00745	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	ND	U	0.0373	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	ND	U	0.0373	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	ND	U	0.00745	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	0.0355	J	0.0373	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	0.00298	J	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	ND	UJ	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	**227**	J	6.1
	HEXACHLOROBUTADIENE	0.257	61.1	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	ND	U	0.00596	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	0.00427	J	0.00745	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP319			DP320			DP321			DP322			DP323			DP324			DP325			DP326		
				SAMPLE NO	FFOR1786			FFOR1787			FFOR1788			FFOR1789			FFOR1790			FFOR1791			FFOR1792			FFOR1793		
				SAMPLE DATE	21-Jul-11			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12			2-Apr-12		
				SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			0-1 FT			15-16 FT			20-21 FT			0-1 FT			20-21 FT			10-11 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	ND	U	0.00298	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	ND	U	0.00894	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	5		0.64	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP326			DP327			DP327			DP328			DP328			DP329			DP330			DP331		
		SAMPLE NO		FFOR1794			FFOR1795			FFOR1796			FFOR1797			FFOR1798			FFOR1799			FFOR1800			FFOR1801		
		SAMPLE DATE		2-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			10-11 FT			20-21 FT			10-11 FT			20-21 FT			5-6 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	ND	U	0.351	NS	--	--	ND	U	0.35	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	NS	--	--	ND	U	0.351	NS	--	--	0.0334	J	0.35	NS	--	--	0.0174	J	0.371	NS	--	--	NS	--	--
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	ND	U	0.351	NS	--	--	0.0633	J	0.35	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	ND	U	0.371	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	ND	U	0.362	**46.1**		18.3
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

			LOCATION CODE	DP326			DP327			DP327			DP328			DP328			DP329			DP330			DP331		
			SAMPLE NO	FFOR1794			FFOR1795			FFOR1796			FFOR1797			FFOR1798			FFOR1799			FFOR1800			FFOR1801		
			SAMPLE DATE	2-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			10-11 FT			20-21 FT			10-11 FT			20-21 FT			5-6 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	ND	U	1.06	NS	--	--	ND	U	1.23	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	**99**	J	5.24	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	**83.1**	J-	1.04
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

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				DP326			DP327			DP327			DP328			DP328			DP329			DP330			DP331		
			SAMPLE NO	FFOR1794			FFOR1795			FFOR1796			FFOR1797			FFOR1798			FFOR1799			FFOR1800			FFOR1801		
			SAMPLE DATE	2-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12		
			SAMPLE PURPOSE	FD			REG			REG			REG			REG			REG			REG			REG		
			SAMPLE DEPTH	20-21 FT			10-11 FT			20-21 FT			10-11 FT			20-21 FT			5-6 FT			15-16 FT			20-21 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP331			DP332			DP332			DP333			DP334			DP335			DP336		
		SAMPLE NO		FFOR1802			FFOR1803			FFOR1804			FFOR1805			FFOR1807			FFOR1809			FFOR1810		
		SAMPLE DATE		5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Jun-13			5-Jun-13		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			15-16 FT			20-21 FT			20-21			0-1 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	0.0248	J	0.362	NS	--	--	0.0407	J	0.36
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--				NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	ND	U	0.338	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	**47.3**		18.3	ND	U	3.69	ND	U	3.67	ND	U	3.62	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP331			DP332			DP332			DP333			DP334			DP335			DP336		
		SAMPLE NO		FFOR1802			FFOR1803			FFOR1804			FFOR1805			FFOR1807			FFOR1809			FFOR1810		
		SAMPLE DATE		5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Jun-13			5-Jun-13		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			15-16 FT			20-21 FT			20-21			0-1 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	**73.3**		1.05	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP331			DP332			DP332			DP333			DP334			DP335			DP336		
		SAMPLE NO		FFOR1802			FFOR1803			FFOR1804			FFOR1805			FFOR1807			FFOR1809			FFOR1810		
		SAMPLE DATE		5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Apr-12			5-Jun-13			5-Jun-13		
		SAMPLE PURPOSE		FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			15-16 FT			20-21 FT			20-21			0-1 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP338			DP338			DP339			DP339			DP340			DP341			DP342			DP342		
				SAMPLE NO	FFOR1812			FFOR1813			FFOR1814			FFOR1815			FFOR1816			FFOR1817			FFOR1818			FFOR1819		
				SAMPLE DATE	5-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
				SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	0-1 FT			0-1 FT			15-16 FT			19-20 FT			15-16 FT			5-7 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	0.0138	J	0.346	0.0293	J	0.347	0.0592	J	0.392	ND	U	0.362	ND	U	0.402	NS	--	--	0.0154	J	0.347	ND	U	0.364
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	ND	U	0.355	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP338			DP338			DP339			DP339			DP340			DP341			DP342			DP342		
				SAMPLE NO	FFOR1812			FFOR1813			FFOR1814			FFOR1815			FFOR1816			FFOR1817			FFOR1818			FFOR1819		
				SAMPLE DATE	5-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
				SAMPLE PURPOSE	REG			FD			REG			REG			REG			REG			REG			REG		
				SAMPLE DEPTH	0-1 FT			0-1 FT			15-16 FT			19-20 FT			15-16 FT			5-7 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP338			DP338			DP339			DP339			DP340			DP341			DP342			DP342		
		SAMPLE NO		FFOR1812			FFOR1813			FFOR1814			FFOR1815			FFOR1816			FFOR1817			FFOR1818			FFOR1819		
		SAMPLE DATE		5-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG			REG			REG			REG		
		SAMPLE DEPTH		0-1 FT			0-1 FT			15-16 FT			19-20 FT			15-16 FT			5-7 FT			0-1 FT			5-6 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP342			DP343			DP343			DP344			DP345			DP345			DP345			DP345		
		SAMPLE NO		FFOR1820			FFOR1821			FFOR1822			FFOR1823			FFOR1824			FFOR1825			FFOR1826			FFOR1827		
		SAMPLE DATE		4-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		10-12 FT			15-16 FT			20-21 FT			19-20 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	ND	U	0.37	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	NS	--	--	ND	U	0.374	NS	--	--	NS	--	--	0.00935	J	0.345	NS	--	--	ND	U	0.37	ND	U	0.382
	BENZO(B)FLUORANTHENE	5.31	1.48	ND	U	0.37	NS	--	--	NS	--	--	NS	--	--	NS	--	--	0.0261	J	0.376	ND	U	0.37	ND	U	0.382
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	ND	U	0.37	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	ND	U	0.37	ND	U	0.382
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	0.194	J	0.376	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP342			DP343			DP343			DP344			DP345			DP345			DP345			DP345		
				SAMPLE NO	FFOR1820			FFOR1821			FFOR1822			FFOR1823			FFOR1824			FFOR1825			FFOR1826			FFOR1827		
				SAMPLE DATE	4-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
				SAMPLE DEPTH	10-12 FT			15-16 FT			20-21 FT			19-20 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	ND	U	0.00207	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	NS	--	--	NS	--	--	NS	--	--	**74.2**	J	10	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

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		LOCATION CODE		DP342			DP343			DP343			DP344			DP345			DP345			DP345			DP345		
		SAMPLE NO		FFOR1820			FFOR1821			FFOR1822			FFOR1823			FFOR1824			FFOR1825			FFOR1826			FFOR1827		
		SAMPLE DATE		4-Jun-13			5-Jun-13			5-Jun-13			5-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		10-12 FT			15-16 FT			20-21 FT			19-20 FT			0-1 FT			5-6 FT			10-11 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP345			DP346			DP346			DP347			DP348			DP349			DP350			DP350		
		SAMPLE NO		FFOR1828			FFOR1829			FFOR1830			FFOR1831			FFOR1832			FFOR1833			FFOR1834			FFOR1835		
		SAMPLE DATE		4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			REG			FD		
		SAMPLE DEPTH		15-16 FT			5-6 FT			10-11 FT			15-16 FT			19-20 FT			19-20 FT			19-20 FT			19-20 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	**0.184**	J	0.391	0.0825	J	0.38	**0.194**	J	0.343	ND	U	0.357	NS	--	--	ND	U	0.35	ND	U	0.355	ND	U	0.354
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	**14.1**		3.5	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP345			DP346			DP346			DP347			DP348			DP349			DP350			DP350		
				SAMPLE NO	FFOR1828			FFOR1829			FFOR1830			FFOR1831			FFOR1832			FFOR1833			FFOR1834			FFOR1835		
				SAMPLE DATE	4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
				SAMPLE DEPTH	15-16 FT			5-6 FT			10-11 FT			15-16 FT			19-20 FT			19-20 FT			19-20 FT			19-20 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP345			DP346			DP346			DP347			DP348			DP349			DP350			DP350		
				SAMPLE NO	FFOR1828			FFOR1829			FFOR1830			FFOR1831			FFOR1832			FFOR1833			FFOR1834			FFOR1835		
				SAMPLE DATE	4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			REG			FD		
				SAMPLE DEPTH	15-16 FT			5-6 FT			10-11 FT			15-16 FT			19-20 FT			19-20 FT			19-20 FT			19-20 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]		Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400		NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP351			DP352			DP352			DP352			DP353			DP354			DP354			DP357		
		SAMPLE NO		FFOR1836			FFOR1837			FFOR1838			FFOR1839			FFOR1840			FFOR1841			FFOR1842			FFOR1845		
		SAMPLE DATE		3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			19-20 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.354	0.00866	J	0.369	ND	U	7.2	ND	U	3.51	0.0105	J	0.345	0.0695	J	0.352	ND	U	1.74	0.068	J	1.73
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP351			DP352			DP352			DP352			DP353			DP354			DP354			DP357		
				SAMPLE NO	FFOR1836			FFOR1837			FFOR1838			FFOR1839			FFOR1840			FFOR1841			FFOR1842			FFOR1845		
				SAMPLE DATE	3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			REG			FD			REG		
				SAMPLE DEPTH	5-6 FT			10-11 FT			15-16 FT			19-20 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

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		LOCATION CODE		DP351			DP352			DP352			DP352			DP353			DP354			DP354			DP357		
		SAMPLE NO		FFOR1836			FFOR1837			FFOR1838			FFOR1839			FFOR1840			FFOR1841			FFOR1842			FFOR1845		
		SAMPLE DATE		3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			4-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			REG			FD			REG		
		SAMPLE DEPTH		5-6 FT			10-11 FT			15-16 FT			19-20 FT			0-1 FT			5-6 FT			5-6 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP359			DP360			DP361			DP361			DP362			DP362			DP362			DP362		
		SAMPLE NO		FFOR1847			FFOR1848			FFOR1849			FFOR1850			FFOR1851			FFOR1852			FFOR1853			FFOR1854		
		SAMPLE DATE		3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
		SAMPLE PURPOSE		REG			REG			REG			REG			REG			FD			REG			REG		
		SAMPLE DEPTH		5-6 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	ND	U	0.362	0.0971	J	0.36	ND	U	0.357	0.0408	J	0.375	**1.47**		0.34	0.125	J	0.338	ND	U	0.354	ND	U	0.368
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	0.111	J	0.34	0.0112	J	0.338	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP359			DP360			DP361			DP361			DP362			DP362			DP362			DP362		
				SAMPLE NO	FFOR1847			FFOR1848			FFOR1849			FFOR1850			FFOR1851			FFOR1852			FFOR1853			FFOR1854		
				SAMPLE DATE	3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
				SAMPLE DEPTH	5-6 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP359			DP360			DP361			DP361			DP362			DP362			DP362			DP362		
				SAMPLE NO	FFOR1847			FFOR1848			FFOR1849			FFOR1850			FFOR1851			FFOR1852			FFOR1853			FFOR1854		
				SAMPLE DATE	3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13			3-Jun-13		
				SAMPLE PURPOSE	REG			REG			REG			REG			REG			FD			REG			REG		
				SAMPLE DEPTH	5-6 FT			0-1 FT			5-6 FT			10-11 FT			0-1 FT			0-1 FT			5-6 FT			10-11 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				DP363			DP363			DP364			DP365			DP366		
		LOCATION CODE																
		SAMPLE NO		FFOR1855			FFOR1856			FFOR1857			FFOR1858			FFOR1859		
		SAMPLE DATE		10-Sep-13			10-Sep-13			12-Sep-13			12-Sep-13			12-Sep-13		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			15-16 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
TPH (mg/kg) EPA Method 8015B	DIESEL RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	GASOLINE RANGE ORGANICS	NE	1,000 [d]	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4,5-TETRACHLOROBENZENE	0.768	18.3	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIPHENYLHYDRAZINE	0.0408	6.08	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,3,4,6-TETRACHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,5-TRICHLOROPHENOL	207	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4,6-TRICHLOROPHENOL	2.07	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DICHLOROPHENOL	2.00	183	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DIMETHYLPHENOL	13.3	1,220	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROPHENOL	1.26	122	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,4-DINITROTOLUENE	0.0449	15.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DICHLOROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,6-DINITROTOLUENE	0.77	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLORONAPHTHALENE	227	6,260	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROPHENOL	2.31	391	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLNAPHTHALENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3,3'-DICHLOROBENZIDINE	0.148	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	3-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4,6-DINITRO-2-METHYLPHENOL	0.0762	4.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLORO-3-METHYLPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROANILINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-NITROPHENOL	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHENE	338	3,440	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACENAPHTHYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ANTHRACENE	5,410	17,200	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)ANTHRACENE	1.57	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(A)PYRENE	0.52	0.148	NS	--	--	NS	--	--	ND	U	0.388	ND	U	0.345	ND	U	0.349
	BENZO(B)FLUORANTHENE	5.31	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(GHI)PERYLENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZO(K)FLUORANTHENE	52.0	14.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHOXY)METHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROETHYL)ETHER	0.000527	2.68	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	0.0466	91.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	172	347	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BUTYL BENZYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBAZOLE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHRYSENE	160	147	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZO(A,H)ANTHRACENE	1.69	0.148	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBENZOFURAN	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIETHYL PHTHALATE	193	48,900	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIMETHYL PHTHALATE	1,610	611,000	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-BUTYL PHTHALATE	139	6,110	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DI-N-OCTYL PHTHALATE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORANTHENE	2,430	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	FLUORENE	406	2,290	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBENZENE	0.0796	3.04	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROCYCLOPENTADIENE	10.5	367	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROETHANE	0.164	42.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	INDENO(1,2,3-CD)PYRENE	17.3	1.48	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPHORONE	3.84	5,120	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NITROBENZENE	0.0125	53.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIETHYLAMINE	0.00000855	0.00768	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

				LOCATION CODE	DP363			DP363			DP364			DP365			DP366		
				SAMPLE NO	FFOR1855			FFOR1856			FFOR1857			FFOR1858			FFOR1859		
				SAMPLE DATE	10-Sep-13			10-Sep-13			12-Sep-13			12-Sep-13			12-Sep-13		
				SAMPLE PURPOSE	REG			FD			REG			REG			REG		
				SAMPLE DEPTH	20-21 FT			20-21 FT			15-16 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil[c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
SVOCs (mg/kg) EPA Method 8270C	N-NITROSODIMETHYLAMINE	0.0000175	0.0226	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSO-DI-N-PROPYLAMINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-NITROSODIPHENYLAMINE	11.3	993	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROBENZENE	3.35	48.9	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PENTACHLOROPHENOL	0.256	8.94	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENANTHRENE	571	1,830	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PHENOL	99.5	18,300	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRENE	1,790	1,720	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	PYRIDINE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	0.0329	29.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,1-TRICHLOROETHANE	58.2	15,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2,2-TETRACHLOROETHANE	0.00426	8.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1,2-TRICHLOROETHANE	0.00223	2.81	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHANE	0.12	64.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROETHENE	2.32	449	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,1-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,3-TRICHLOROPROPANE	0.00005	0.0497	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRICHLOROBENZENE	0.183	73.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2,4-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	0.000022	1.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DIBROMOETHANE	0.000308	0.588	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROBENZENE	5.60	2,310	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROETHANE	0.00711	7.89	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,2-DICHLOROPROPANE	0.0214	15.2	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3,5-TRIMETHYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,3-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1,4-DICHLOROBENZENE	0.0639	31.7	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	1-CHLOROHEXANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2,2-DICHLOROPROPANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-BUTANONE	25.5	37,100	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-HEXANONE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENAL	0.000146	0.404	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	2-PROPENENITRILE	0.0016969	4.55	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-CHLOROTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	4-METHYL-2-PENTANONE	NE	5,820	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ACETONE	77.1	66,600	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BENZENE	0.0345	15.4	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOCHLOROMETHANE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMODICHLOROMETHANE	0.00541	5.41	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOFORM	12.1	6,116	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	BROMOMETHANE	0.0385	16.5	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON DISULFIDE	5.65	1,530	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CARBON TETRACHLORIDE	0.0321	10.8	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROBENZENE	0.984	376	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROETHANE	107	29,800	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROFORM	0.00918	5.86	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CHLOROMETHANE	0.879	275	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,2-DICHLOROETHENE	0.367	156	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOCHLOROMETHANE	0.00661	12.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DIBROMOMETHANE	0.0342	51.6	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	DICHLORODIFLUOROMETHANE	7.43	168	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ETHYLBENZENE	0.26	68.4	0.00492		0.00204	0.00526		0.00226	NS	--	--	NS	--	--	NS	--	--
	HEXACHLOROBUTADIENE	0.257	61.1	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	ISOPROPYLBENZENE	17.3	2,430	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	M,P-XYLENES	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYL TERT-BUTYL ETHER	0.482	901	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	METHYLENE CHLORIDE	0.824	409	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	NAPHTHALENE	0.0713	43.0	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	N-PROPYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	O-XYLENE	3.13	898	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

Appendix A 2011 - 2013 FFOR Soil Sampling Analytical Results

		LOCATION CODE		DP363			DP363			DP364			DP365			DP366		
		SAMPLE NO		FFOR1855			FFOR1856			FFOR1857			FFOR1858			FFOR1859		
		SAMPLE DATE		10-Sep-13			10-Sep-13			12-Sep-13			12-Sep-13			12-Sep-13		
		SAMPLE PURPOSE		REG			FD			REG			REG			REG		
		SAMPLE DEPTH		20-21 FT			20-21 FT			15-16 FT			10-11 FT			0-1 FT		
Chemical Class and Analytical Method[a]	Parameter	DAF20[b]	Residential Soil [c]	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ	Result	VAL QUAL	LOQ
VOCs (mg/kg) EPA Method 8260B	P-ISOPROPYLTOLUENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	SEC-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	STYRENE	27.7	7,280	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TERT-BUTYLBENZENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TETRACHLOROETHENE	0.00861	7.02	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TOLUENE	25.3	5,270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,2-DICHLOROETHENE	0.538	270	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NE	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROETHENE	0.0211	8.77	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	TRICHLOROFLUOROMETHANE	17.8	1,410	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL ACETATE	1.52	2,560	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	VINYL CHLORIDE	0.00108	0.728	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
	XYLENES	3.13	814	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
Metals (mg/kg) EPA Method 6010	LEAD	NE	400	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--

[a] *Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846*, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] NMED Dilution Attenaution Factor 20.

[c] *Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document*, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[d] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.

Bold indicates the analyte was detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL).

J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased high.

J- = estimated value, concentration is less than LOQ but greater than laboratory method detection limit (DL); biased low.

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be recorded with a specified degree of confidence.

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

NS = Not sampled.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

-- = No results or no data. Step out samples are only tested for the analyte which exceeded screening levels in the original sample.

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APPENDIX B

Approved Permits

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE 6/9/14 | Dig Permit #: FY 14 06-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL __BFF Hot__

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:
Tara S. Kunkel
(contact John Salazar for site access at 505-350-4793)

CONTACT INFORMATION:
Primary: 505-262-8906 (office), 505-967-9521 (cell)
Alternate: tara.kunkel@CBIFederalServices.com

Organization/Company Name:
CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

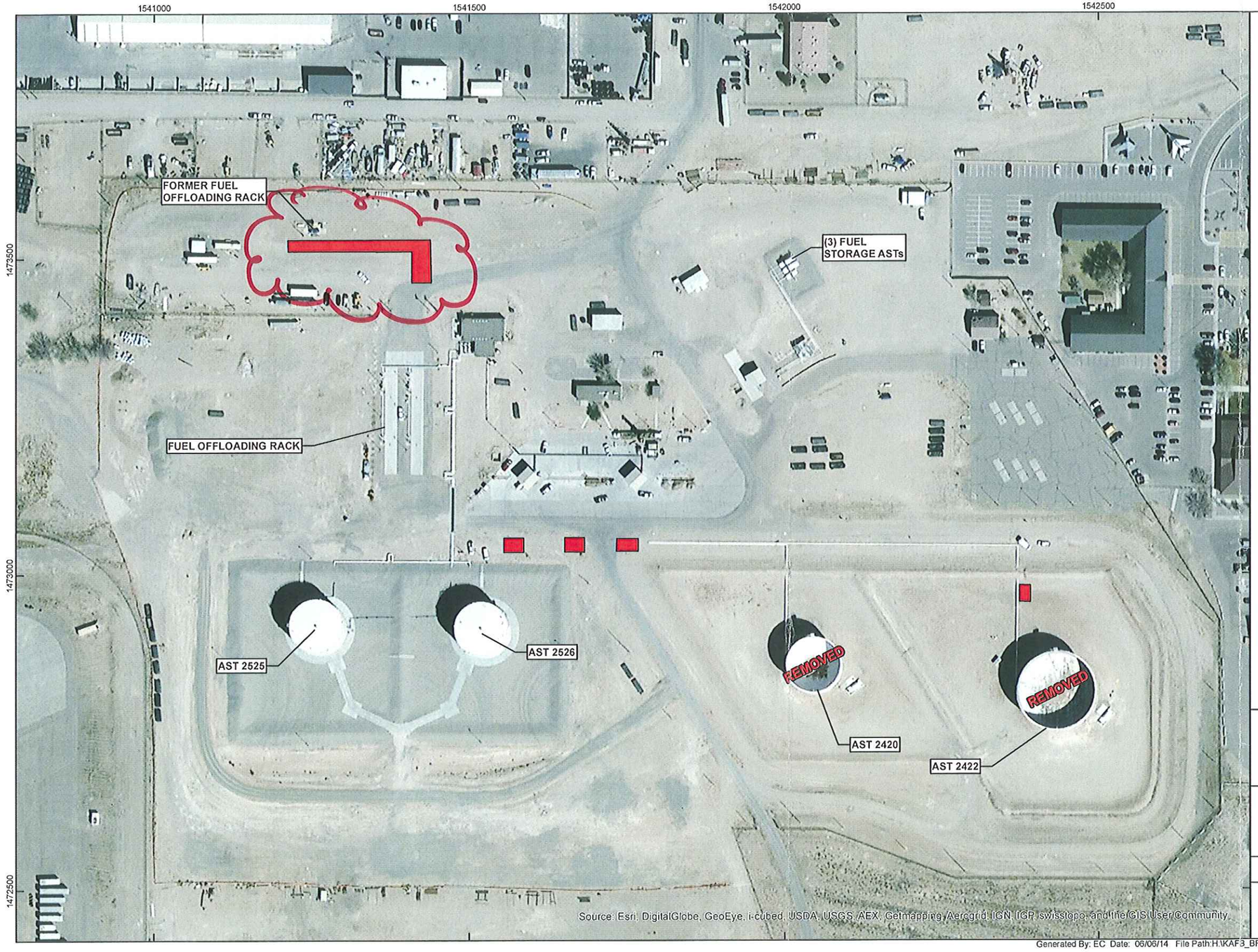
	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☑ Clear	Remarks:	
	DOMESTIC AND RAW WATER Call 846-7863 / 846-1552	☑ Marked ☐ Clear	Remarks: Pothole	
	SEWER MAINS Call 846-7863 / 846-1552	☐ Marked ☑ Clear	Remarks:	
	GAS MAINS Call 846-7863 / 846-1552	☐ Marked ☑ Clear	Remarks:	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☑ Clear	Remarks:	
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☑ Clear	Remarks:	
	ELECTRICAL Call 853-6493	☐ Marked ☑ Clear	Remarks:	
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☑ Clear	Remarks:	
	TRAFFIC & ALARMS 853-6495	☐ Marked ☑ Clear	Remarks:	
	FUEL/POL LINES Call 934-2733	☐ Marked ☑ Clear	Remarks:	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☑ Clear	Remarks:	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☑ Clear	Remarks:	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd. 20685	☐ Marked ☑ Clear	Remarks: See notes - Env	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 589 846-2670	☐ Marked ☑ Clear	Remarks:	
	EOD Building 20413 846-2229	☐ Marked ☑ Clear	Remarks:	
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	☐ Marked ☑ Clear	Remarks:	
	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	☐ Marked ☑ Clear	Remarks:	
	FIRE DEPARTMENT Call 846-8305	☐ Marked ☑ Clear	Remarks:	
	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☑ Clear	Remarks:	
	GROUND SAFETY 846-4227 or 853-0268	☐ Marked ☑ Clear	Remarks: Comply w attached Excavation Req - SEG	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS : ☑APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE

APPROVAL DATE 6-19-2014 | EXPIRATION DATE 7-19-2014

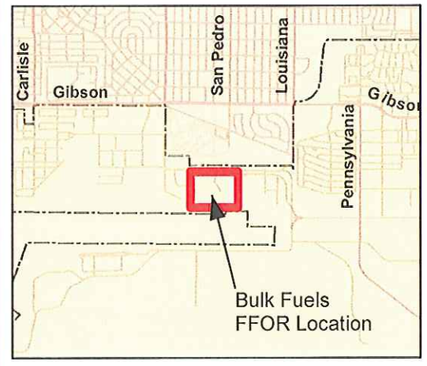
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE



Legend

- Excavation Area
- Kirtland Air Force Base Installation Boundary

FFOR = Former Fuel Offloading Rack



Source: USGS Digital Raster Graphics (Topographic Maps) [MSRMAPS.COM] 7.5 Minute Quadrangle, Albuquerque East 1:24000 updated: 1990

N

0 150 300 Feet

Projection : NAD_1983_StatePlane_New_Mexico_Central_FIPS_3002_Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

DIG PERMIT

FIGURE 1

Generated By: EC Date: 06/06/14 File Path:H:\KAF3_BFF\GISDocuments\Project_Maps\140705_EA010050_FFOR_DIG_PERMIT.mxd

Project Number: 140705

Summary of Work, KAFB Bulk Fuels Facility

Work is to be performed for excavation of contaminated soil at the Bulk Fuels Facility (BFF) Former Fuel Offloading Rack (FFOR). The proposed locations of excavation areas are shown on **Figure 1**. All excavation activities will take place inside the fenced, controlled-access area of the BFF south of Randolph Ave. The excavation will go to a maximum depth of 20 feet below ground surface. Approximately 1,600 cubic yards of contaminated soil will be excavated and disposed of at an off-base landfill. Below are some conditions that will apply to the work to be performed and subsections describing each portion of the work.

1. Utility location will be completed by a utility subcontractor and is scheduled for the week of June 23, 2014. Utility clearance will have been performed and all utilities marked before any excavation activities begin.
2. All excavated soil will be placed on polyethylene sheeting and covered with the same material to prevent the spread of contaminants.

Intrusive activities:

The excavation will be completed using a 50,000 pound excavator. CB&I will utilize a trench shield shoring system to enable excavation to total depth without risking cave-ins of the excavation sidewalls and to avoid the need for sloping. The excavation will commence by installing the trench shield system and advancing the box to total depth as the excavation progresses. Upon achieving total depth, backfill operations will commence and the trench shield system will be removed from the bottom up. Confirmation soil samples from the sidewall and floor of the excavation will be collected every 20 feet throughout the excavation.

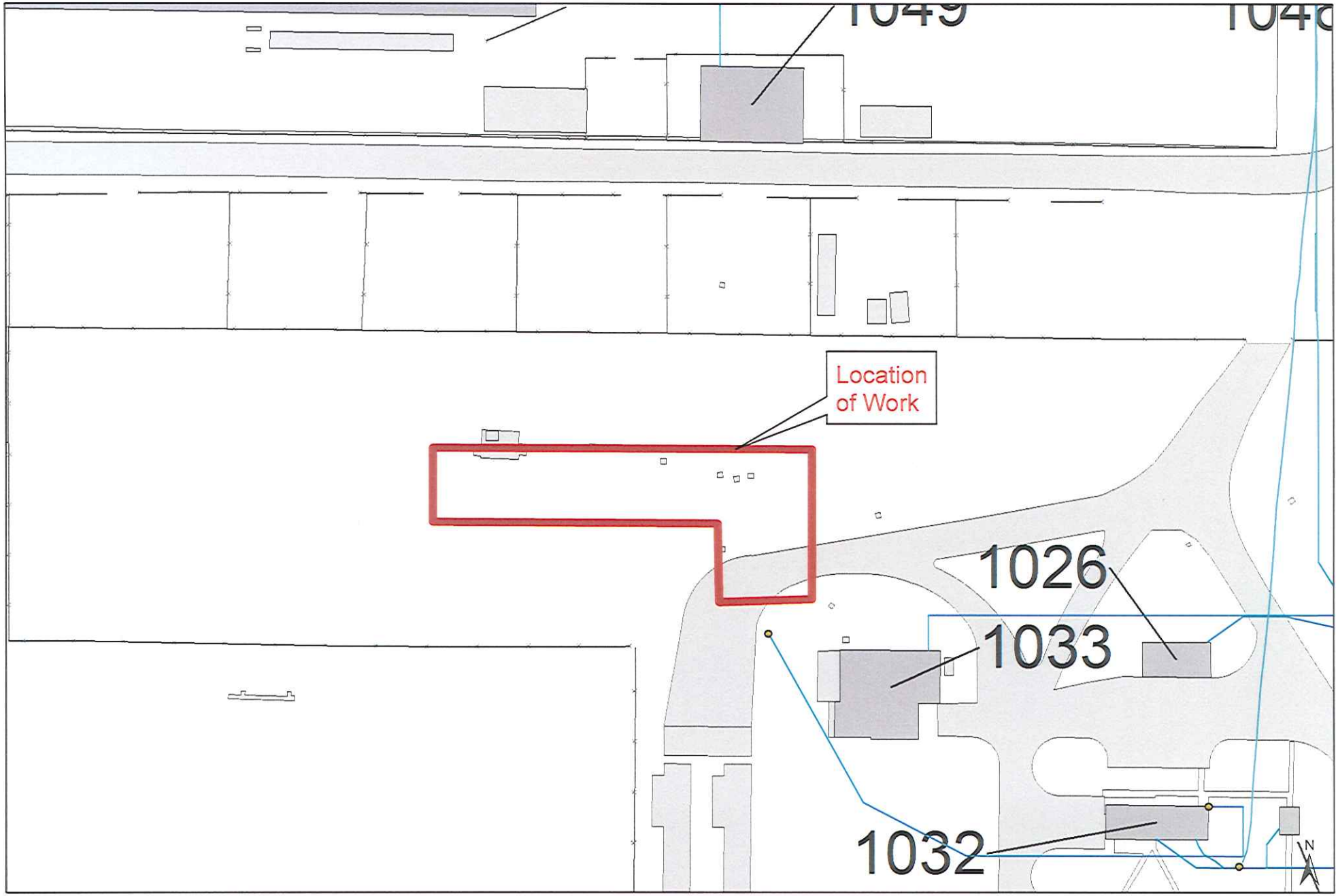
Waste Management:

Contaminated soil will be stockpiled on site in 200 cubic yard piles prior to transportation to the offsite landfill. Soil will be protected from wind and water erosion with polyethylene sheeting both underneath and covering the soil piles. Soil will be removed from site using over-the-road dump trucks and transported to the Valencia Regional Landfill in Los Lunas, New Mexico for disposal.

Waste water from decontamination of heavy equipment will be containerized in labeled 55-gallon poly drums pending analytical results. Based on the analytical results, water may be disposed of via a Notice of Intent to discharge to the ground surface, or at the Kirtland Wastewater Treatment Plant.

Excavation Backfill and Site Restoration:

Following excavation and collection of confirmation samples, clean soil backfill will be placed with the excavator bucket and will be spread in minimum 8-inch lifts possibly increasing to maximum 24-inch lifts with Kirtland AFB approval once demonstrated that soil can be compacted to 90% density. Compaction testing of soil backfill will be completed for every 8-inch lift of fill material using a nuclear soil density gauge to ensure compaction to 90% density in accordance with ASTM-D-1557. Following completion of backfill activities, the excavation area will be graded to match surrounding areas.

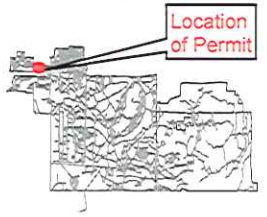


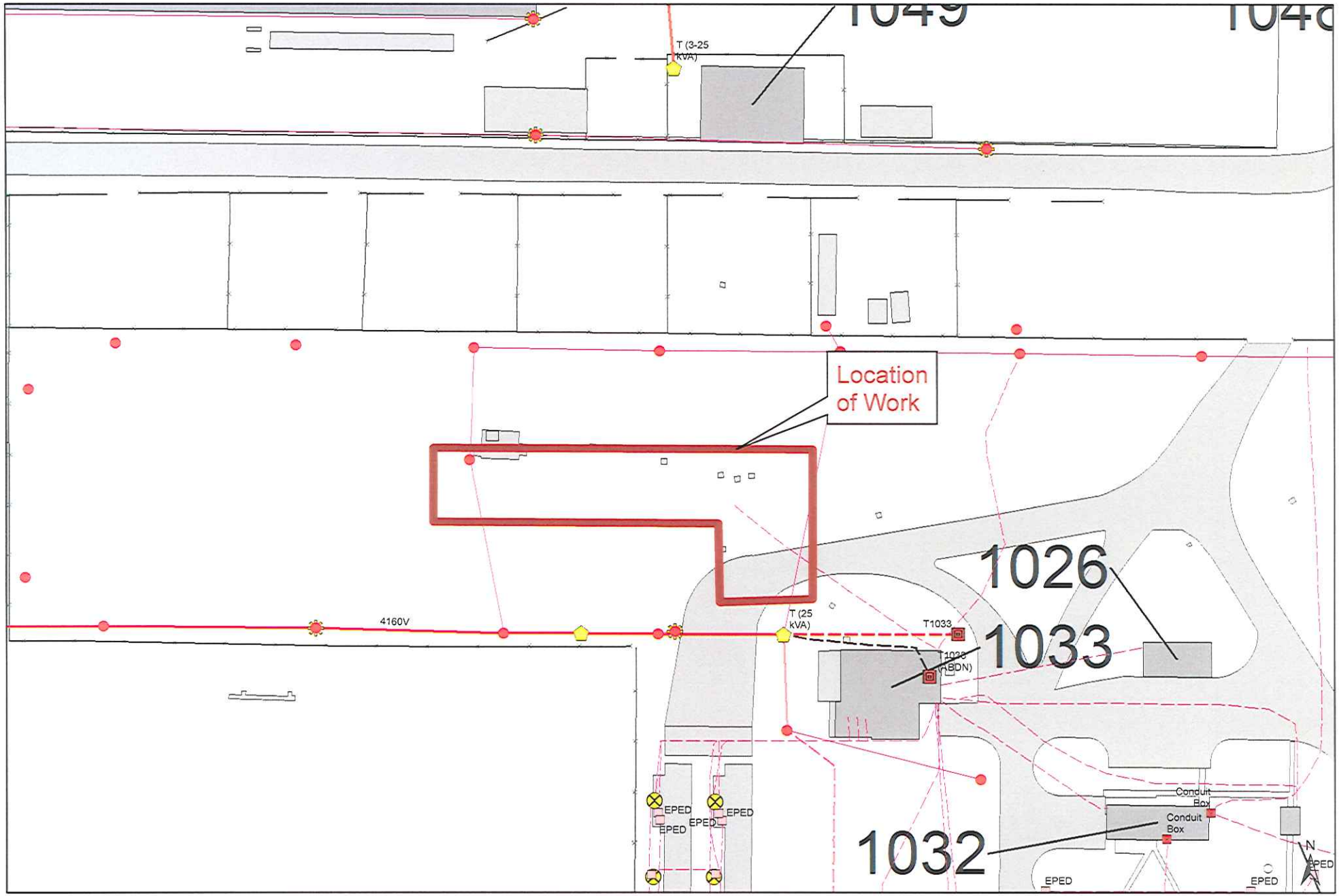
25 12.5 0 25 50 75 100
Feet

Comm

Site Utility Mapping

Permit # FY1405-002





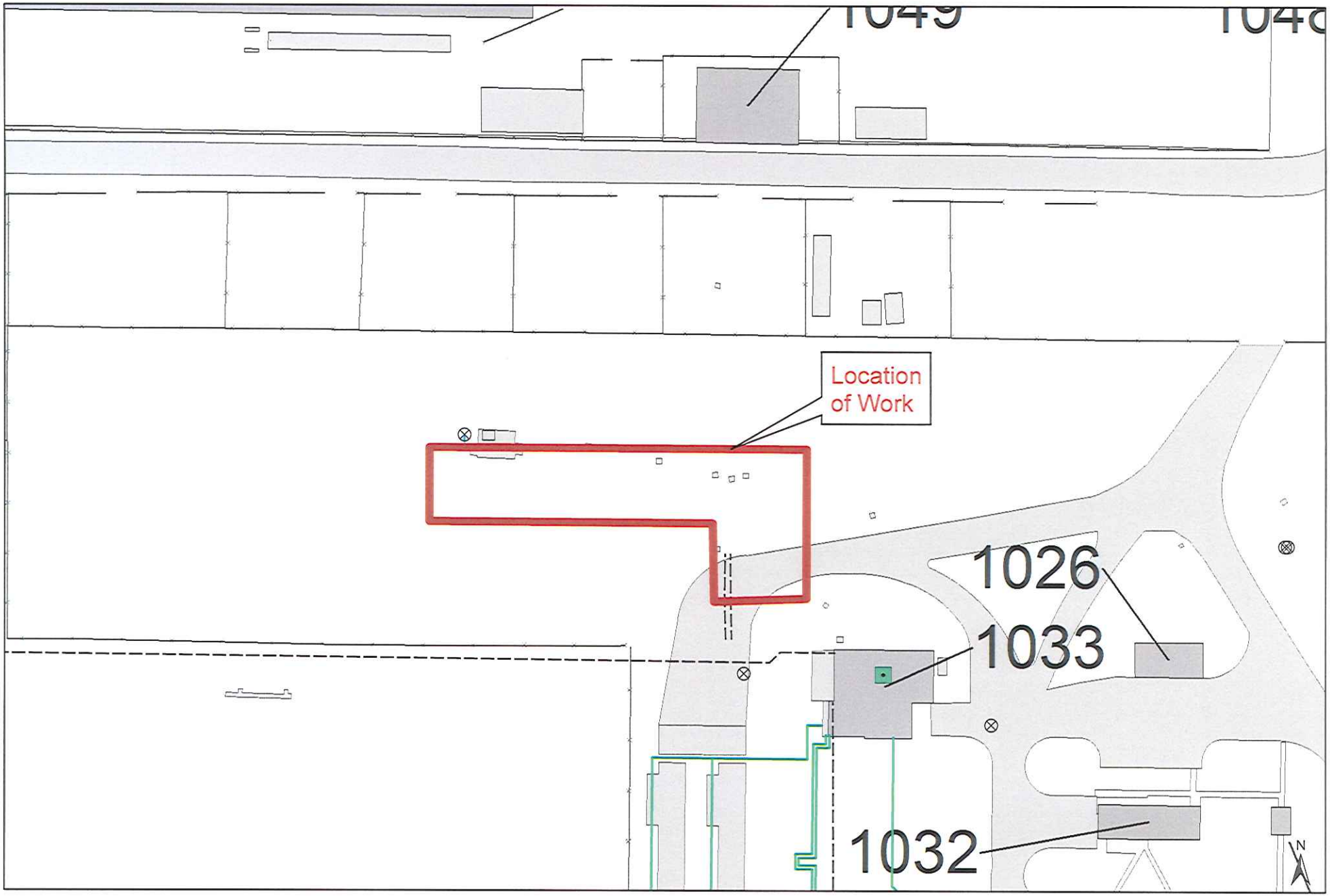
Electrical

Site Utility Mapping

Permit # FY1405-002

25 12.5 0 25 50 75 100 Feet

Location of Permit

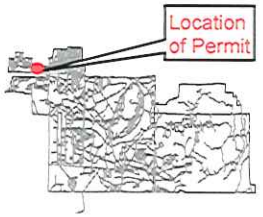


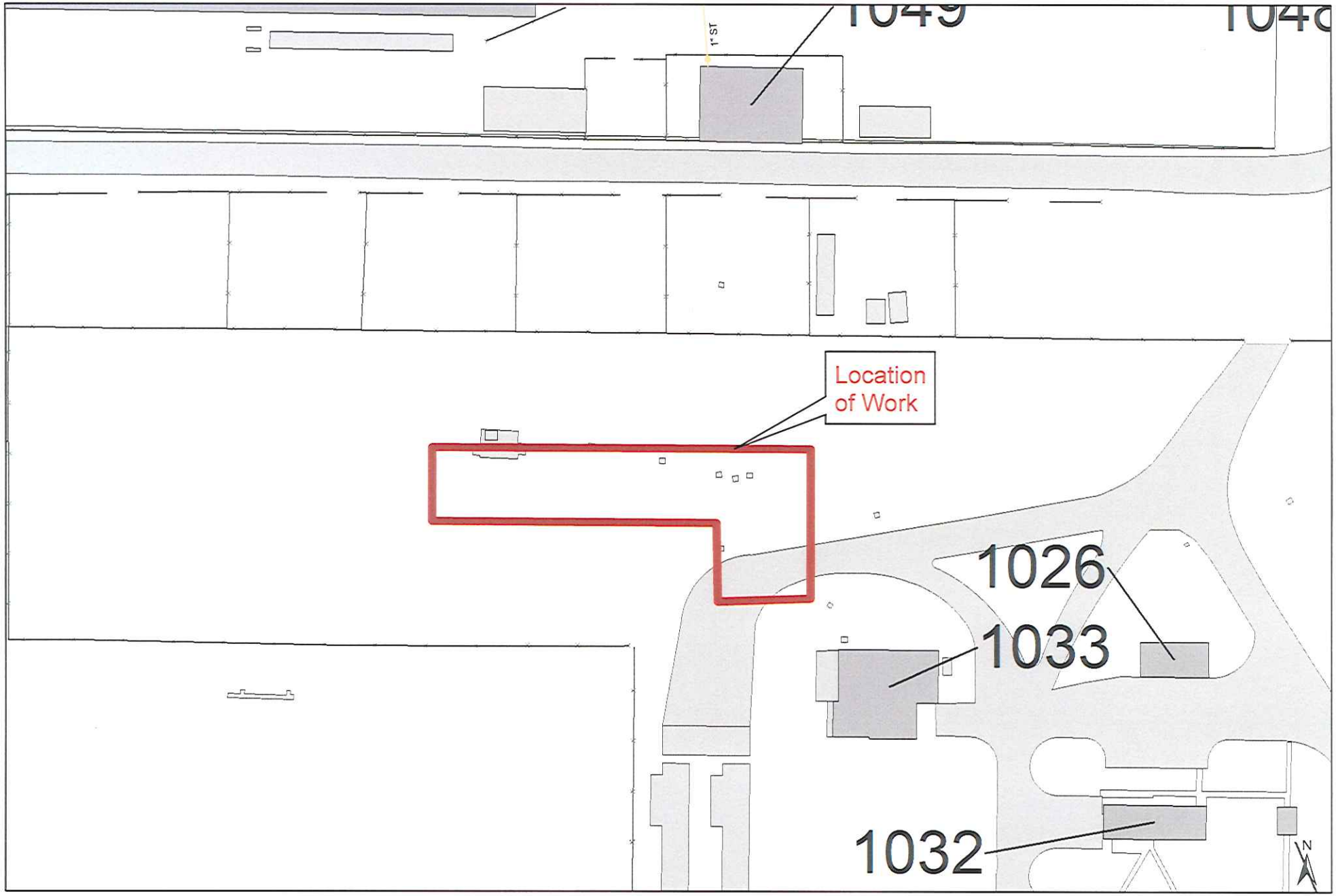
25 12.5 0 25 50 75 100
Feet

Fuel

Site Utility Mapping

Permit # FY1405-002



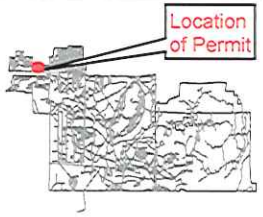


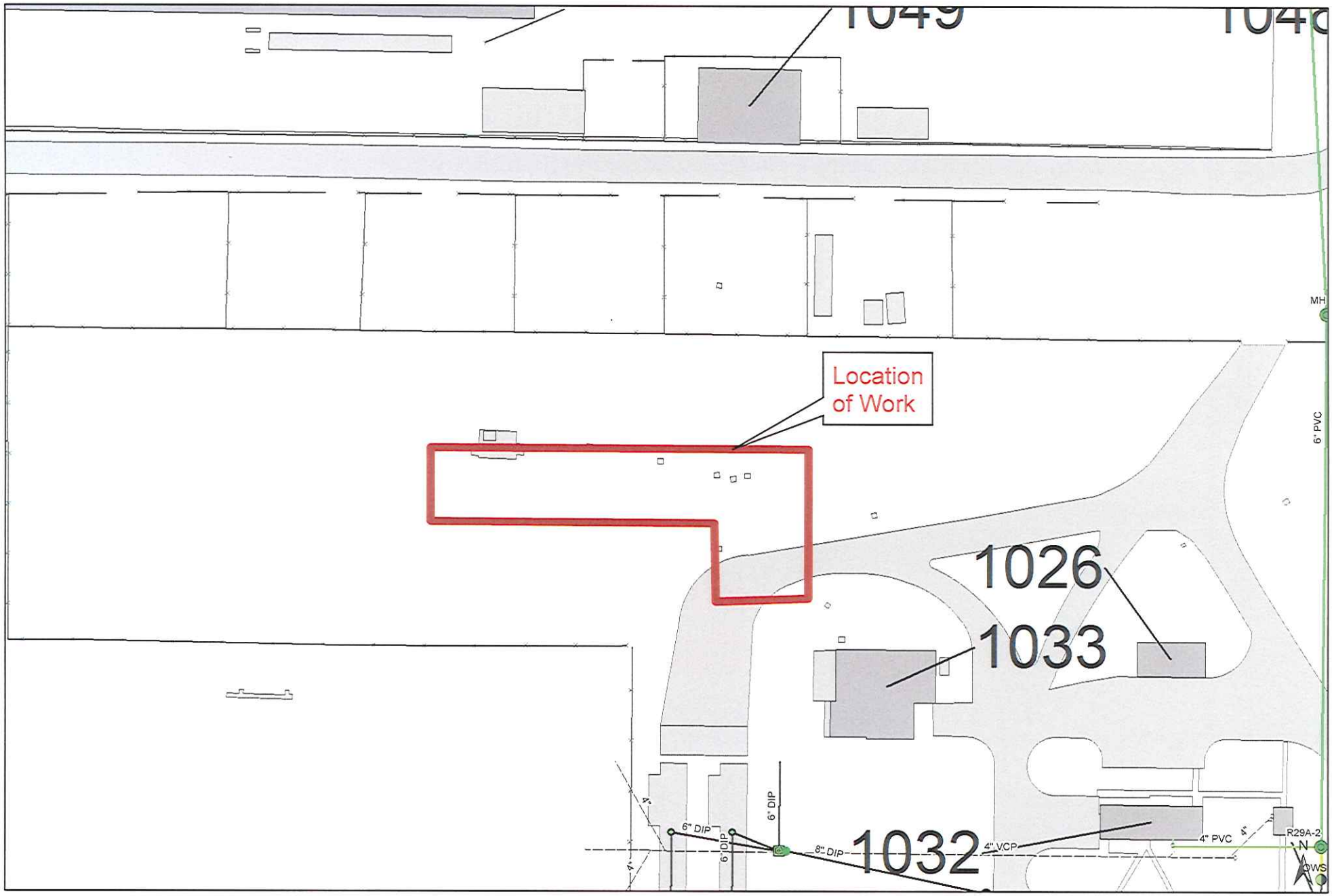
25 12.5 0 25 50 75 100
Feet

Gas

Site Utility Mapping

Permit # FY1405-002



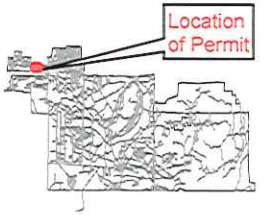


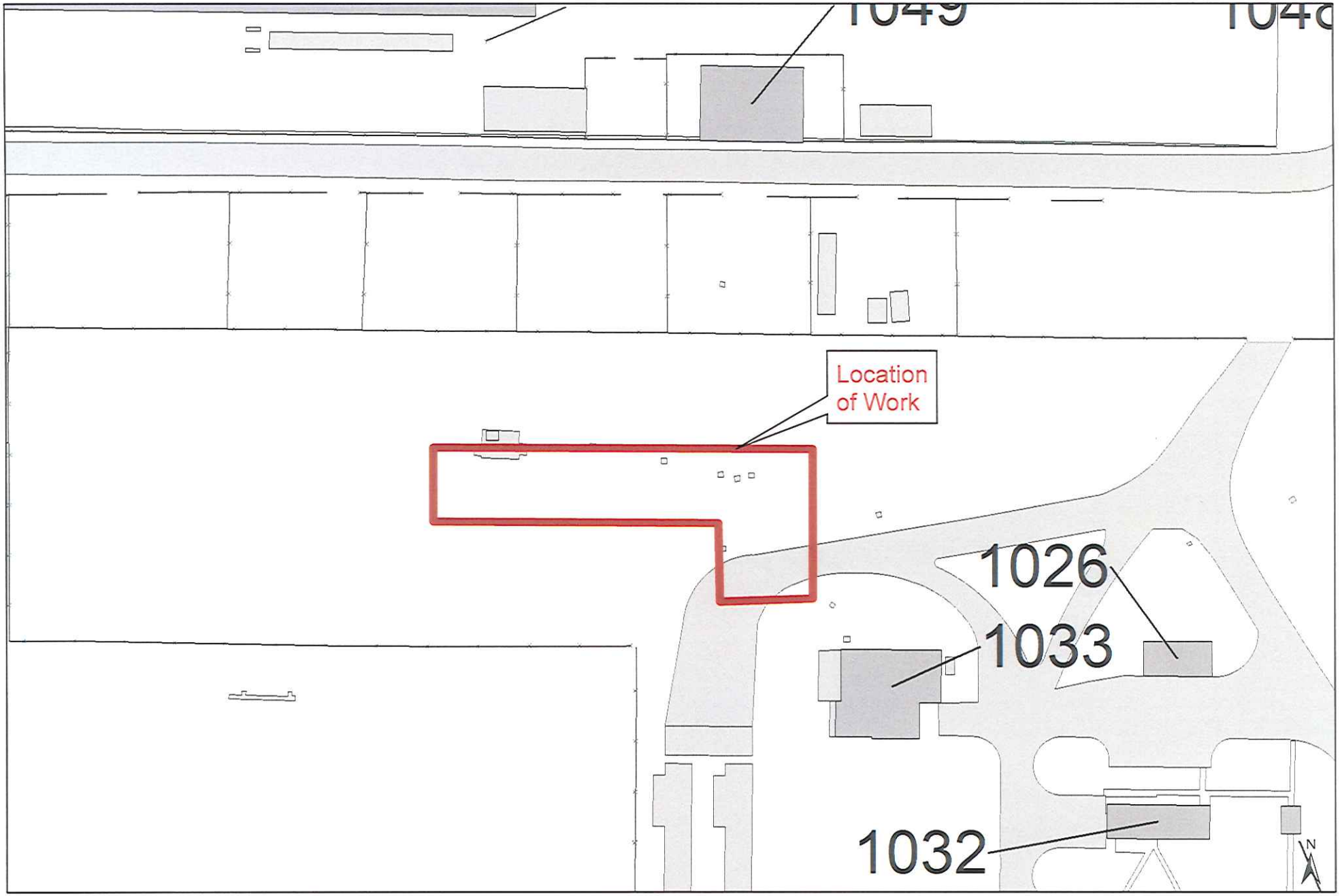
Sanitary

Site Utility Mapping

Permit # FY1405-002

25 12.5 0 25 50 75 100 Feet



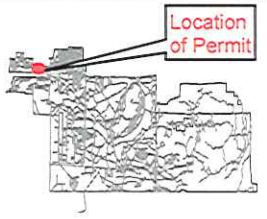


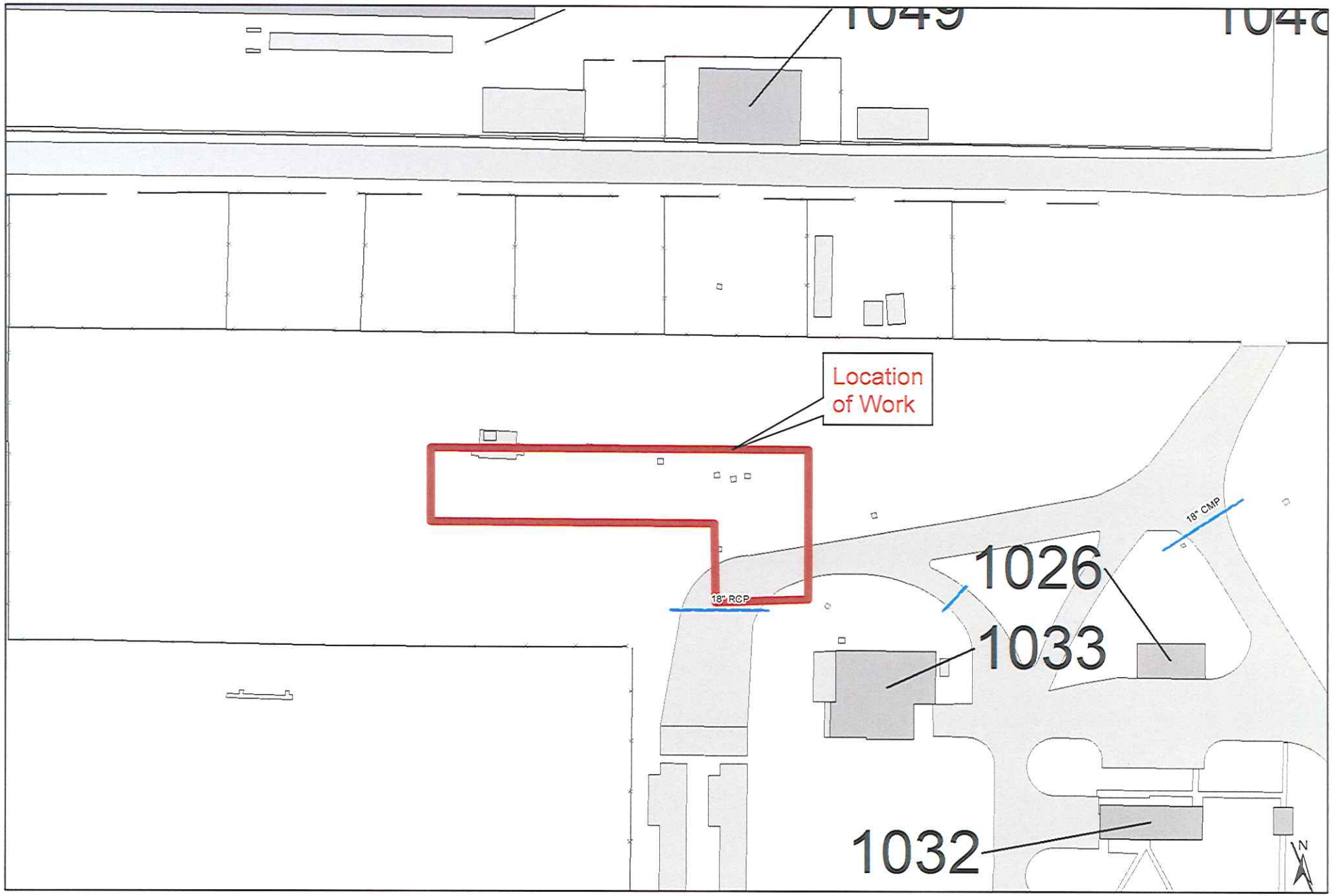
25 12.5 0 25 50 75 100
Feet

Steam

Site Utility Mapping

Permit # FY1405-002



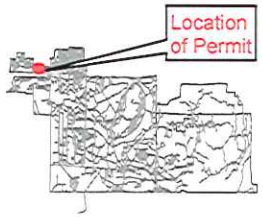


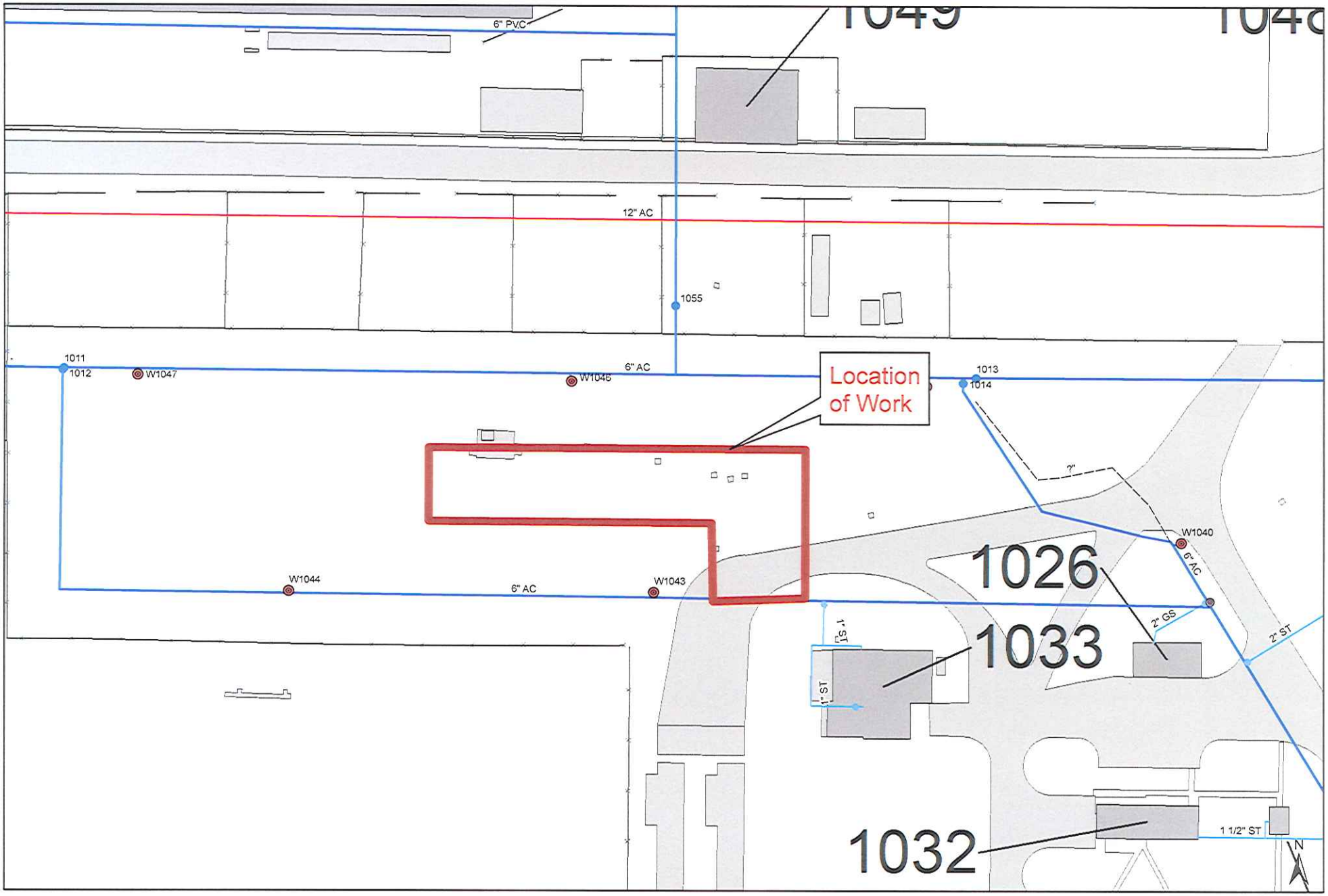
25 12.5 0 25 50 75 100
Feet

Storm

Site Utility Mapping

Permit # FY1405-002



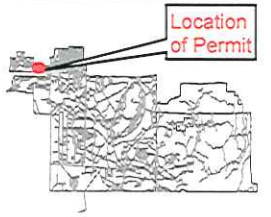


25 12.5 0 25 50 75 100 Feet

Water

Site Utility Mapping

Permit # FY1405-002



BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL

PLANNED DIG DATE: 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:
Tara S. Kunkel
(contact John Salazar for site access at 505-350-4793)

CONTACT INFORMATION:
Primary: 505-262-6306 (office), 505-967-9521 (cell)
Alternate: tara.kunkel@CB&FederalServices.com

Organization/Company Name:
CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	[ ] Marked [x] Clear	area clear of HV lines 269-7876 6-9-14	e-sign M.Tokatch
	DOMESTIC AND RAW WATER Call 846-7603 / 846-1552	[ ] Marked [ ] Clear		
	SEWER MAINS Call 846-7603 / 846-1552	[ ] Marked [ ] Clear		
	GAS MAINS Call 846-7603 / 846-1552	[ ] Marked [ ] Clear		
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2894	[ ] Marked [ ] Clear		
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	[ ] Marked [ ] Clear		
	ELECTRICAL Call 853-6493	[ ] Marked [ ] Clear		
	CATHODIC PROTECTIONS CECX 846-4633	[ ] Marked [ ] Clear		
	TRAFFIC & ALARMS 853-6485	[ ] Marked [ ] Clear		
	FUEL/POL LINES Call 934-2738	[ ] Marked [ ] Clear		
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293/934-9664	[ ] Marked [ ] Clear		
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	[ ] Marked [ ] Clear		
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20650	[ ] Marked [ ] Clear		
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 569 846-2670	[ ] Marked [ ] Clear		
	EOD Building 20113 846-2223	[ ] Marked [ ] Clear		
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	[ ] Marked [ ] Clear		
	SECURITY FORCE Resource Protection Call 846-6209 bldg 20220	[ ] Marked [ ] Clear		
	FIRE DEPARTMENT Call 846-8355	[ ] Marked [ ] Clear		
	WEAPONS SAFETY 841-6144/841-4209	[ ] Marked [ ] Clear		
	ORD/UXO SAFETY 846-4227/or 853-6209	[ ] Marked [ ] Clear		
	COMMERCIAL UTILITIES New Mex ONE CALL 260-4990 48 Hours before digging			

CLEARANCE IS: [ ] APPROVED (For 30 Days from Approval date) [ ] DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
ACTIVITY IN APPROVED AREA MUST BE AT THE EXCAVATOR'S RISK UNTIL COMPLETE		

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# EGT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL __ BY HOT

PLANNED DIG DATE: 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 605-350-4793)	Primary: 505-262-8306 (office), 505-967-9521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-6145	[ ] Marked [ ] Clear	Remarks	
	DOMESTIC AND RAW WATER Call 846-7603 / 846-1552	[X] Marked [ ] Clear	Remarks	DAN ROMERO-6-7863
	SEWER MAINS Call 846-7603 / 846-1552	[ ] Marked [X] Clear	Remarks	D ROMERO
	GAS MAINS Call 846-7603 / 846-1552	[ ] Marked [X] Clear	Remarks	D ROMERO
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	[ ] Marked [ ] Clear	Remarks	
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1893	[ ] Marked [ ] Clear	Remarks	
	ELECTRICAL Call 853-6493	[ ] Marked [ ] Clear	Remarks	
	CATHODIC PROTECTIONS CECX 846-4633	[ ] Marked [ ] Clear	Remarks	
	TRAFFIC & ALARMS 853-6495	[ ] Marked [ ] Clear	Remarks	
	FUEL/FOL LINES Call 934-2733	[ ] Marked [ ] Clear	Remarks	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9604	[ ] Marked [ ] Clear	Remarks	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9604	[ ] Marked [ ] Clear	Remarks	
CEC	ENVIRONMENTAL 2359 Wyoming Blvd 26685	[ ] Marked [ ] Clear	Remarks	
OTHER BASE AGENCIES	BIOENVIRONMENTAL Building 920 846-2673	[ ] Marked [ ] Clear	Remarks	
	ECO Building 20113 846-2229	[ ] Marked [ ] Clear	Remarks	
	COMMUNICATIONS Call 846-6411 Bldg 20429 Rm D	[ ] Marked [ ] Clear	Remarks	
	SECURITY POLICE Resource Protection Call 846-6295 bldg 20220	[ ] Marked [ ] Clear	Remarks	
	FIRE DEPARTMENT Call 846-6355	[ ] Marked [ ] Clear	Remarks	
	WEAPONS SAFETY 846-9/4 or 846-4227	[ ] Marked [ ] Clear	Remarks	
	GROUND SAFETY 846-4227 or 846-6/11	[ ] Marked [ ] Clear	Remarks	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before dig (DIG)			

CLEARANCE IS : [ ] APPROVED (For 30 Days from Approval date) [ ] DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED PERMIT MUST BE AT THE DIG ASSIGNMENT UNTIL COMPLETE		

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

___ IMMEDIATE EMERGENCY __X__ NORMAL

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 505-350-4793)	Primary: 505-262-6305 (office), 505-507-9521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

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	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☐ Clear	Remarks	
	DOMESTIC AND RAW WATER Call 846-7603 / 846-1552	☐ Marked ☐ Clear	Remarks	
	SEWER MAINS Call 846-7603 / 846-1552	☐ Marked ☐ Clear	Remarks	
	GAS MAINS Call 846-7603 / 846-1552	☐ Marked ☐ Clear	Remarks	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2694	☑ Marked ☐ Clear	Remarks	Arthur Johnson
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☐ Clear	Remarks	
	ELECTRICAL Call 853-6493	☐ Marked ☐ Clear	Remarks	
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☐ Clear	Remarks	
	TRAFFIC & ALARMS 853-6465	☐ Marked ☐ Clear	Remarks	
	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear	Remarks	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293/934-9604	☐ Marked ☐ Clear	Remarks	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9604	☐ Marked ☐ Clear	Remarks	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear	Remarks	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 569 846-2673	☐ Marked ☐ Clear	Remarks	
	EOD Building 20413 846-2223	☐ Marked ☐ Clear	Remarks	
	COMMUNICATIONS Call 846-8411 Bldg 20420 Rm D	☐ Marked ☐ Clear	Remarks	
	SECURITY POLICE Resource Protection Call 846-6259 bldg 20220	☐ Marked ☐ Clear	Remarks	
	FIRE DEPARTMENT Call 846-6305	☐ Marked ☐ Clear	Remarks	
	WEAPONS SAFETY 841-6414 or 847-4279	☐ Marked ☐ Clear	Remarks	
	GROUND SAFETY 846-4297 or 551-0255	☐ Marked ☐ Clear	Remarks	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS: ☐ APPROVED (For 30 Days from Approval date) ☐ DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIG SITE BEFORE WORK BEGINS		

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG
Sent: Tuesday, June 10, 2014 6:50 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Christine, dig permits, FY1406-002, and 003, are clear of any irrigation, Abel.

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

___ IMMEDIATE EMERGENCY __X__ NORMAL ~~OPT-Hot~~

PLANNED DIG DATE: 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:
Tara S. Kunkel
(contact John Salazar for site access at 505-350-4793)

CONTACT INFORMATION:
Primary: 505-262-6506 (office), 505-967-9521 (cell)
Alternate: tara.kunkel@CBIFederalServices.com

Organization/Company Name:
CB&I Federal Services

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	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☐ Clear Remarks		
UTILITIES	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
UTILITIES	SEWER MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
UTILITIES	GAS MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☐ Clear Remarks		
OPERATIONS	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1603	☐ Marked ☐ Clear Remarks		
OPERATIONS	ELECTRICAL Call 853-6493	☐ Marked ☑ Clear Remarks:	Elec Clear	B Velgus 550-5185
OPERATIONS	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☑ Clear Remarks	Cath Clear	B Velgus " "
OPERATIONS	TRAFFIC & ALARMS 853-6495	☐ Marked ☐ Clear Remarks:		
OPERATIONS	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear Remarks:		
OPERATIONS	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☐ Clear Remarks		
OPERATIONS	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☐ Clear Remarks:		
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 589 846-2673	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	EOD Building 20413 846-2229	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	COMMUNICATIONS Call 846-8411 Bldg 20420 Rm D	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	SECURITY POLICE Resource Protection Call 846-6200 Bldg 20220	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	FIRE DEPARTMENT Call 846-6305	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	WEAPONS SAFETY 841 914 or 841 4229	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	GROUND SAFETY 846 4227 or 853 6255	☐ Marked ☐ Clear Remarks		
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS: ☐APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE

A COPY OF THIS APPROVED FORM MUST BE AT THE DIG SITE UNTIL COMPLETE

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE 6/9/14 | Dig Permit #: CY 14 05-002

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

___ IMMEDIATE EMERGENCY _X_ NORMAL ~~DIG HOT~~

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

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	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☐ Clear Remarks		
	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
	SEWER MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
	GAS MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks		
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2904	☐ Marked ☐ Clear Remarks		
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1603	☐ Marked ☐ Clear Remarks		
	ELECTRICAL Call 853-6493	☐ Marked ☐ Clear Remarks		
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☐ Clear Remarks		
	TRAFFIC & ALARMS 853-6495	☐ Marked ☒ Clear Remarks	6-10-14	ERNIE 3-6455
	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear Remarks		
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☐ Clear Remarks		
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☐ Clear Remarks		
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear Remarks		
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 689 846-2673	☐ Marked ☐ Clear Remarks		
	EOD Building 20413 846-2223	☐ Marked ☐ Clear Remarks		
	COMMUNICATIONS Call 846-8411 Bldg 20420 Rm D	☐ Marked ☐ Clear Remarks		
	SECURITY POLICE Resource Protection Call 846-6200 bldg 20220	☐ Marked ☐ Clear Remarks		
	FIRE DEPARTMENT Call 846-6305	☐ Marked ☐ Clear Remarks		
	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☐ Clear Remarks		
	GROUND SAFETY 846-4227 or 853-6268	☐ Marked ☐ Clear Remarks		
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS: ☐ APPROVED (For 30 Days from Approval date) ☐ DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE		

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP
Sent: Monday, June 09, 2014 3:01 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

All water gas fuels fire suppression and sewer are clear.

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

EN

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From:	BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE
Sent:	Monday, June 16, 2014 7:49 AM
To:	377 MSG/CEC Digging Permits Mail
Cc:	GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE
Subject:	RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Attachments:	FY1406-002_003.pdf
Signed By:	lori.crump@kirtland.af.mil

Attached Checklist of Environmental Requirements applies to FY1406-002 and 003. Please note guidance AQ3, WQ2, and CR3.

NOTE: If any ground disturbance other than what is identified in the dig permit is to occur, then you MUST coordinate with Air Quality and Water Quality Program personnel (identified attached Checklist) prior to any ground disturbance.

Thanks,

Michelle

Michelle Bare

Kirtland AFB CTR - NEPA Group

377 MSG/CEIE

2050 Wyoming Blvd SE, Rm 116a

Kirtland AFB NM 87117

505-846-3774

FAX 505-846-4000

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM

Checklist of Environmental Requirements for Proposed Project GNV

	Air Quality Program – POC: Ms. Andria Cuevas @ 846-2522 or via e-mail: *airquality@kirtland.af.mil*
AQ 1	**Asbestos:** Due to the age of the building, ACM may be present. Files are available for review by a Certified Asbestos Inspector. ***Contact Air Quality Program POC*** to coordinate access to the files. If suspected ACM is encountered and will be disturbed, then ACM sampling should be performed by the contractor with abatement as necessary prior to commencing the proposed work on the building. ***NOTE:*** Notification to the AEHD in accordance with 20.11.20.22 NMAC is required for ACM disturbance. Additional guidance and forms can be found at the City of Albuquerque's website: http://www.cabq.gov/airquality/businessapplicationspermitsandforms.html#asebstosforms
AQ 2	**Lead Based Paint:** Due to the age of the building, LBP may be present; files are available for review. Contact Air Quality Program personnel to coordinate access to files. If suspected LBP is encountered and will be disturbed, LBP sampling should be performed by the contractor with abatement as necessary prior to commencing the proposed work on the building. ***Coordination/Consultation with Air Quality Program POC required.***
AQ 3	**Ground Disturbance:** • If the total ground disturbance is ***greater than or equal to ¾ acre***, then a Fugitive Dust Permit will be required. ***Fugitive Dust Permits must be submitted to the Air Quality Program for review***, and 377 ABW/CC signature, five (5) weeks prior to the anticipated start date of soil disturbance. ***NOTE***: AEHD AQD requires all Fugitive Dust Permits be submitted to their office 10 business days prior to anticipated start date of soil disturbance and will require a site inspection prior to issuing the permit. • If the total ground disturbance is ***less than ¾ of an acre***, then a fugitive dust permit is not required; however, the contractor must still comply with the following general provisions from 20.11.20.12 NMAC: "Each person shall use reasonably available control measures or any other effective control measure during active operations or on inactive disturbed surface areas, as necessary to prevent the release of fugitive dust, whether or not the person is required by 20.11.20 NMAC to obtain a fugitive dust control permit. It shall be a violation of 20.11.20 NMAC to allow fugitive dust, track out, or transported material from any active operation, open storage pile, stockpile, paved or unpaved roadway, disturbed surface area, or inactive disturbed surface area to cross or be carried beyond the property line, right-of-way, easement or any other area under control of the person generating or allowing the fugitive dust if the fugitive dust may: (1) with reasonable probability injure human health or animal or plant life; (2) unreasonably interfere with the public welfare, visibility or the reasonable use of property; or (3) be visible for a total of 15 minutes or more during any consecutive one hour observation period using the visible fugitive dust detection method in 20.11.20.26 NMAC or an equivalent method approved in writing by the department. Failure to comply with 20.11.20.12 NMAC, a fugitive dust control permit, plan, term or condition shall be a violation of 20.11.20 NMAC."
AQ 4	**Boilers:** Natural gas boilers/hot water heaters of size greater than five (5) million BTU (MMBTU) require Stationary Source Air Permitting. If planning to install a boiler fueled by anything other than natural gas, contact Air Quality Program personnel immediately to determine if a permit is needed. If an air permit is required, the permit must be issued prior to purchase of the boiler(s) and can take up to seven (7) months to accomplish. The Air Quality Program is required to track boilers of all sizes/fuel types to comply with the basewide air permit (Title V Operating Permit). ***Coordination/Consultation with Air Quality Program POC required.***
AQ 5	**Refrigerant:** Ensure all equipment containing refrigerant and all HVAC technicians comply with the requirements in 40 CFR Part 82. ***Before the old A/C unit is removed, notify Air Quality Program POC with the following information from the old A/C unit:*** 1. Make 2. Model 3. Refrigerant Type 4. Charge/Amount Recovered ***For any A/C unit installation, provide Air Quality Program POC with the following information from the new unit:*** 1) Type of appliance (comfort, commercial, industrial, other) 2) Manufacturer 3) Model 4) Serial number (or other method of ID used by facility and/or contractors) 5) Refrigerant type 6) Amount of full charge of refrigerant 7) Name/contact information of company contracted for A/C system maintenance.
AQ 6	**Generators:** All emergency generators are required to have a 20.11.41 NMAC Authority to Construct (ATC) permit from the Albuquerque Environmental Health Department (AEHD) Air Quality Division (AQD). The ATC permit must be in place prior to "commencing construction", which means prior to purchasing the unit (20.11.41.7.C NMAC). It may take as long as 7 months from the initiation of the permit application preparation process to receive a permit from the AEHD AQD. The project is expected to pay for the cost of preparing the permit application and the associated AEHD AQD permit fees. The organization must plan to pay annual emission fee assessed by the AEHD AQD. Contact Air Quality Program personnel to discuss the timeline for the project. ***Coordination/Consultation with Air Quality Program POC required.***

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created for Kirtland AFB
by Martha E. Garcia

	Air Quality Program – POC: Ms. Andria Cuevas @ 846-2522 or via e-mail: airquality@kirtland.af.mil
AQ 7	**Building Demolition:** If the building to be demolished is more than 75,000 cubic feet of space then a Fugitive Dust Permit will be required prior to demolition (***refer to AQ3 – first bulleted item***). An asbestos notification form must be submitted for all building demolition activities, even if no regulated asbestos-containing material (ACM) is present in the building or structure (***refer to AQ1***).
AQ 8	**Air Quality Permitting for New Sources:** An air quality permit from the AEHD AQD may be required for the proposed equipment prior to construction. ***Coordination with the Air Quality POC is required*** to ensure the appropriate measures are taken in the event the source must obtain an air quality permit. It may take as long as seven (7) months from the initiation of the permit application preparation process to receive a permit from AEHD AQD. The project is expected to pay for the cost of preparing the permit application and the associated AEHD air quality permit fees. The organization must also plan to pay emission fees for the permitted source on an annual basis.
AQ 9	**Permitting and/or Reporting Requirements Exist for Activity:** Activities require Open Burn/Open Detonation permitting through the City of Albuquerque OR there is requirement to report munition items expended during event. ***Prior Coordination with the Air Quality POC is required.***
	Hazardous Waste Program – POCs: Ms. Rebecca Clines and Ms. Cheryl Frischkorn @ 846-0003 or via e-mail: 377MSG.Hazwaste@us.af.mil
HW 1	**Transformers:** When removing/replacing – fluids must be sampled to ensure they are correctly characterized for proper disposal. ***Contact Hazardous Waste POCs to schedule/assist with sampling.***
HW 2	**Fluorescent lamps, ballasts:** If not removed by base maintenance contractor or Honeywell, ***contact the Hazardous Waste program immediately*** to arrange for disposal.
HW 3	**Disposal of Hazardous Materials/Hazardous Waste** All hazardous materials used on base for official activities require authorization through 377MSG/CEIE (846-8781) and hazardous waste (HW) generated during these official activities must be manifested off the base according to US EPA and State of New Mexico Environmental Department (NMED) statutes. ***Contact the Civil Engineers Directorate, Environmental Office (377MSG/CEIE) at 846-0003 or email: 377 MSG.Hazwaste@us.af.mil for assistance in mandatory HW disposal guidance.*** *Exceptions - Most home use and personal care, household hazardous chemicals and wastes (HHHW) are exempt; however, some home and auto-care chemicals must be properly recycled or disposed - examples include: fluorescent tubes, pesticides, lead acid batteries, used antifreeze and engine oil.*
HW 4	**Paints &Stains from Renovations &Self-Help Projects:** If touch-up paint or stain is left behind by the Contractor, building managers shall ensure that the material is properly stored (inside, away from temperature extremes) and if not used before it expires, ensure that it is properly disposed. ***Contact the base maintenance contractor (846-8222) for usable paints and stains. Contact the Hazardous Waste Program POCs for disposal of waste paints and stains.***
	Hazardous Materials Program – POC: Program Manager: Ms. Lori Crump @ 846-8781 Program Support: Ms. Faith Weston @ 846-2509
HM 1	Any hazardous materials used in the proposed project needs to be identified either by authorizing the material(s) under a shop in EESOH-MIS or by filling out, submitting, and following the guidelines in the short term contractor Memo and worksheet. Please turn in the worksheet, inventory list, and manufacture specific MSDS(s) to the 377th CEIE Hazardous Material program office. Please ***contact Hazardous Materials POCs for Memo and worksheet***.
HM 2	Any hazardous materials used in the proposed deployment need to be identified by filling-out, submitting, and following guidelines in the deployment memo and worksheet. Please turn in the worksheet, inventory list, and manufacturer specific MSDSs to the 377th CEIE Hazardous Material program office. Please ***contact Hazardous Materials POCs for Memo and worksheet.***
	Solid Waste/Recycling – POC: Program Manager: Ms. Katrina Wheelock @ 853-2486
SW 1	**Cleanouts:** Material being disposed must not include items prohibited from disposal as solid waste (examples: fluorescent bulbs/ballasts, hazardous wastes or materials, asbestos waste, etc.). ***Contact Solid Waste/Recycling Program Manager for guidance.***
SW 2	**Equipment Disposal:** ***Coordinate with DRMO (853-2269)*** to establish whether equipment needs to be turned in. ***Contact your Unit Equipment Manager*** to remove equipment from supply/asset inventories turning in or disposing.
SW 3	**Minor Construction:** If using Kirtland AFB C&D Landfill for disposal, segregate scrap metal and corrugated cardboard for recycling at the landfill's recycling area. If project waste is to be disposed or recycled off-base, ***report all weight/volume disposed or recycled to the Solid Waste/Recycling Program Manager.***
SW 4	**Major Construction/Demolition:** Ensure that Section 01 74 19 (Construction Waste Management, updated 06/2012) is included in project specifications.
SW 5	**Scrap Metal:** Segregate scrap metal for recycling. Small amounts should be brought to the Kirtland AFB C&D Landfill's recycling area. Dumpsters/roll-offs for recycling larger amounts of scrap metal must be obtained via AF Form 332 unless the scrap metal is generated as part of a contracted construction/demolition project. ***Contact Solid Waste/Recycling Program Manager for guidance.***
	Restoration Program – POC: Chief of Env. Restoration: Mr. Wayne Bitner @ 853-3484
R1	Due to the potential for encountering Unexploded Ordnance (UXO), any fieldwork south of Hardin Blvd requires workers to complete UXO Awareness training. ***The 377 MSG/CED EOD Group can provide this short training. They can be contacted at 846-2229.***
R2	Impacts to Environmental Restoration Sites are possible. ***Please contact Restoration Program POC before doing any work.***

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	Water Quality Program – POC's: Ms. Andria Cuevas @ 846-2522 and Ms. Rebecca Clines @ 846-2306
WQ 1	**Wastewater – Septic Tanks/Leach Fields:** When feasible, new construction and remodels should connect to the sanitary sewer system. If a new septic system is the only viable option, the septic tank and leach field must meet the requirements of the NMED Liquid Waste Bureau and be registered with the state. Consult the NMED Liquid Waste requirements concerning removal and/or demolition of a septic tank (20.6.2 NMAC, http://www.nmcpr.state.nm.us/nmac/_titles.htm). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 2	**Land Disturbance less than 43,560sqft (1 acre) - Municipal Separate Storm Sewer System (MS4) applies:** The MS4 permit requires all construction activities, regardless of size, to implement best management practices (BMPs) to ensure that storm water pollutants are contained to the maximum extent practical and do not enter the storm drainage system (http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm, item 4. Additionally, all non-storm water discharges must be approved by the Water Quality Program **prior to discharge**; all other non-storm water discharges are **prohibited**. Contractors **must** certify completion of the approved MS4 training (10 minutes, provided by email utilizing a vote button to certify). Training **must** be completed prior to earth disturbing activities. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 3	**Land Disturbance Equal to or Greater than 43,560sqft (1 acre) – Construction General Permit (CGP) applies:** CGP applies to any individual project or series of projects/common development plans that cumulatively disturb one (1) acre. Contractors **must** develop a Storm Water Pollution Prevention Plan (SWP3), a draft Notice of Intent (NOI), and a detailed site map for approval by the Water Quality Program at least four (4) weeks prior to the contractor's submission of the approved NOI to the Environmental Protection Agency (EPA). Contractors **must** submit NOIs at least fourteen (14) calendar days prior to commencing ground disturbance (**Note**: 6 weeks total required). Ground disturbance **cannot** begin for fourteen (14) calendar days after EPA acknowledges receipt of the NOI (http://cfpub.epa.gov/npdes/stormwater/cgpenoi.cfm), or unless EPA delays or denies authorization. BMPs complying with the permit conditions **must** be in place before any ground disturbance commences. MS4 permit conditions and training noted above in WQ 2 also apply. *Upon project completion,* Contractor **must** achieve final stabilization, in accordance with Part 2.2.2 and Part 9.4.1 of the CGP, prior to submitting a Notice of Termination (NOT) to the EPA and NMED. Contractor **must** comply with the NMED Surface Water Quality conditions specified in Part 9.4 of the CGP (20.6.4 NMAC, http://www.nmcpr.state.nm.us/nmac/_titles.htm). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 4	**Facilities/Renovations with New Footprints Greater Than 5,000 gross sq ft - EISA, Section 438 applies:** The project footprint consists of all horizontal hard surfaces and disturbed areas, including both building area and pavements. The Energy Independence Security Act (EISA) requirements do not apply to internal renovations, maintenance, or resurfacing of existing pavements. Projects **must** conform to Air Force Sustainable Design and Development (SDD) guidance dated 2 June 2011 and the Unified Facilities Criteria (UFC-2-210-10). **Note: use of retention ponds is strictly prohibited**. Contractor **must** populate and validate the approved EISA spreadsheet prior to land disturbance. EISA estimated cost, written as a separate line-item of estimated cost, and final implementation cost **must** be documented in the project file. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 5	**Wastewater – Oil Water Separators, Grease and Sand Traps:** Equipment should only be installed at all locations with an identified need and no feasible alternative. Design features and processes should be substantially reviewed prior to installation of equipment (include in DD 1391 if required). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 6	**Wastewater – Port-a-Potties:** For all projects/events, the contractor must anchor port-a-potties to prevent toppling of the unit. All projects and events that will utilize gray (hand wash station) and black water (port-a-potties) systems must ensure that the contents are disposed of in accordance with local, state and federal laws. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 7	**Wastewater – Fire Suppression System Discharge:** Discharges from fire suppression systems utilizing chemical suppressants must be contained at the facility. Discharges of chemical suppressants to the environment or the sanitary sewer system are **prohibited**. ***Coordination/Consultation with Water Quality POC's required.***
	Tank Program – POC: Mr. Dustin Akins @846-0226
T1	**Transformers:** ***Please forward*** the make, model, transformer ID, location/building, and oil capacity (in gallons) for each new/replacement transformer being installed ***to Tank Program POC***.
T2	**Tanks – Above Ground Tanks (ASTs), Underground Tanks (USTs) and Generators:** ***Please forward*** the make, model, ID number, location/building, and storage capacity (in gallons) for all new and/or replacement oil storage tanks (including POLs, grease, fuels and generators) over 55 gals to ***Tank Program POC.*** All units over 55 gals must have secondary containment in case of spills/leaks. All USTs and tanks over 1,320 gals must be registered with the state.
	Natural Resources Program – POC: Mr. Dustin Akins @ 846-0226
NR 1	**Demolition of Buildings/Structures**: ***Contact Natural Resource POC*** to schedule a survey for bats, snakes, and nesting birds prior to demolition.

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	Natural Resources Program – POC: Mr. Dustin Akins @ 846-0226
NR 2	**Removal/Trimming of Tree(s):** ***Contact Natural Resource POC*** to schedule a survey for bird nests prior to removal/trimming of tree(s).
NR 3	**Outdoor Activities (Including Exterior Building/Structure Renovations):** ***Contact Natural Resource POC*** to schedule a survey for bird nests/animal issues prior to beginning work.
NR 4	**Replacement of Existing or Installation of New Power Poles:** Poles may need to be retrofitted to prevent bird electrocution. ***Contact Natural Resource Program POC*** to have the poles evaluated.
NR 5	**Trenching:** Potential exists for reptiles/amphibians/small mammals dropping into trenching projects and becoming trapped. Trenches require ramps at no more than 45 degrees so that trapped animals may exit the trench. ***Contact Natural Resource Program POC*** with questions.
	Cultural Resources Program – POC: Mr. Dustin Akins @ 846-0226
CR 1	Building/Structure is Historic. ***Please contact Cultural Resource POC before doing any work.***
CR 2	Impacts to Cultural Sites are possible. ***Please contact Cultural Resource POC before doing any work.***
CR 3	**Inadvertent Discovery of Buried Cultural Resources or Native American Human Remains and Objects:** If cultural resources are encountered inadvertently during an undertaking, work in the immediate vicinity shall be halted, the immediate vicinity of the resources shall be secured, and the Cultural Resource Program POC, shall be notified. The following procedures shall be followed: • An in situ evaluation of the resources shall be made by a qualified archaeologist. Based on recommendations from the archaeologist, decisions regarding the treatment of the resources shall be made in consultation with the Cultural Resources Manager (CRM) and the State Historic Preservation Officer (SHPO). • If the resources cannot be evaluated without further archaeological or historic work, the CRM shall be notified and a data recovery program or historic research shall be prepared in consultation with the SHPO. • Based on the results of the data recovery program or historic research, the resources shall be evaluated for eligibility to the National Register in consultation with the CRM and the New Mexico SHPO.
	MISCELLANEOUS
M1	**Ground Disturbance:** AF Form 103 required.
M2	**Project Requires Siting:** Contact Base Siting Office at 853-2811.
M3	**Tree Removal:** All trees should be taken to the Kirtland AFB Landfill for mulching. Personal use is not allowed. Please remove stumps and ensure trunks are no longer than 5 feet and/or 30 inches in diameter. ***Coordination with Landfill Personnel required – Please call 846-5994 for further guidance.***
M4	**Disposal of Construction &Demolition (C&D) Waste at Kirtland C&D Landfill**: In order to gain access to the site, contractors must obtain a Kirtland C&D Landfill Pass specific to each contract held for work on KAFB (multiple contracts = multiple passes). ***To obtain a Pass, contractors must bring the following items to 377 MSG/CEO Production Control in Bldg 20683***: a) copy of the valid contract issued by a US Government Contracting Agency for work to be accomplished on KAFB that requires use of the Kirtland C&D Landfill; b) original, current vehicle registration; c) valid proof of insurance; d) current Bernalillo County Emissions certificate for vehicles that are gasoline powered, newer than 1974, and gross weight of 26,000 lbs or less and e) if subcontractor, copy of a formal contract with the primary contractor OR a letter of appointment from the primary contractor on primary contractor's letterhead that states a clear performance period of subcontracted work. Contractor's signature to obtain a Pass indicates that contractor will control the waste stream such that only C&D generated on KAFB is disposed at the Kirtland C&D Landfill (no municipal solid waste, no hazardous waste, no special waste, no off-base waste).
M5	**Activities on DOE Permitted Property:** DOE is responsible for adhering to all environmental laws and obtaining all applicable permits prior to commencing work. This includes conducting biological and cultural surveys as applicable. ***Please contact the DOE Environmental Office for further guidance.***
M6	**Environmental Management System (EMS) Awareness:** Kirtland AFB has a conforming Environmental Management System. All personnel, to include contractors, need to be aware of the Environmental Policy Statement found on the Kirtland AFB public website - http://www.kirtland.af.mil/shared/media/document/AFD-140123-056.pdf. Contract work shall be consistent with the relevant policy and objectives identified in the Kirtland AFB EMS applicable to the contract. The Contractor shall ensure that employees are aware of environmental impacts and will mitigate those impacts by practicing pollution prevention techniques. ***Please contact the Kirtland AFB EMS Program Manager, Ms. Lori Crump @ 846-8781, with any questions.***
M7	If your project requires the use of any radio frequency devices, ***Contact the Spectrum Management Office at 853-3769/7426 or via e-mail at 377ABW.SMO@us.af.mil.***

Note: Listed requirements are subject to change for compliance with statutory/regulatory changes.

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GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB
Sent: Tuesday, June 10, 2014 7:02 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: joseph.scott.3@us.af.mil

No comments.

v/r,

TSgt Scott

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Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

FY1406-002 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-002.pdf> Bulk Fuels - Remove contaminated dirt.

FY1406-003 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Sent: Tuesday, June 10, 2014 12:34 PM
To: 377 MSG/CEC Digging Permits Mail
Cc: STACEY, MICHAEL S SrA USAF AFMC 377 MSG/CED
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: john.johnson.67@us.af.mil

EOD has no concerns.

V/r,

SSgt John Johnson

Kirtland AFB EOD

DSN: 246-2229

COMM: (505) 846-2229

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR

USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO
Sent: Tuesday, June 10, 2014 10:35 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Dig Permits FY1406-002 is clear.

Dig permit FY1406-003 is clear. Russell Ridley Mike Ellis 377CS

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT,

BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP
Sent: Monday, June 09, 2014 2:58 PM
To: 377 MSG/CEC Digging Permits Mail
Cc: WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

SFS, approves

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF
Sent: Monday, June 09, 2014 3:42 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: juan.salas.2@us.af.mil

Dig Permits FY1406-002 and FY1406-003 are approved.

JUAN E. SALAS, GS-11, DAF
Assistant Chief Fire Prevention
(505) 853-6699

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED

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FY1406-002
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FY1406-003
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

HILL, KELLI S CTR USAF AFMC 377 MSG/CENME

From: 377 ABW/SEW Administrative Mailbox
Sent: Monday, June 09, 2014 3:06 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: tracy.withrow.1@us.af.mil

SEW does not have any issues with permits FY1406-002 and 003.

V/r

Tracy L. Withrow
Weapons Safety Specialist
2000 Wyoming Blvd SE
Bldg 20604 Rm D-10
Comm 505-853-4711
DSN 263-4711

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

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FY1406-002
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FY1406-003
<file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

SEG

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG
Sent: Wednesday, June 11, 2014 8:28 AM
To: 377 MSG/CEC Digging Permits Mail
Cc: CRUMP, RALPH W GS-12 USAF AFMC 377 ABW/SEG; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Attachments: AFI 91-203 - digging permit references.docx
Signed By: richard.peterson.3@us.af.mil

Importance: High

Both Dig permits FY1406-002 and FY1406-003 are approved by Ground Safety

See guidance below

If referring to AF safety guidance; see attachment above on AFI 91-203 regarding
trenching operations.

If referencing OSHA see:

Refer to OSHA revised Subpart P, Excavations, of 29 CFR 1926.650, 29 CFR 1926.651, and 29 CFR 1926.652

Follow the most strict guidance.

Also ensure supervision & workers comply with applicable contract/company policy or any OI/ TOs regarding their shop/company guidance for safe operations especially excavation, shoring & trenching work.

Note: A competent person will examine the excavation soil to determine the need for a shoring system, sloping and benching system or some other equivalent means. A registered professional engineer shall be consulted in areas required by 29 CFR 1926, Subpart P - Excavations.

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA

USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

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FY1406-003
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

7.2.2.4. Grounds. All grounds adjacent to work areas shall be kept free of hazardous materials, trash, weeds and unguarded pits, openings or obstacles.

7.2.2.5. Construction. All construction work shall be clearly identified by signs that can be read from at least 50 feet, in addition to barriers marked with night reflective materials. Illumination or warning flashers shall also be used after dark.

7.2.1.6.2. Floor Opening Cover. A cover shall be used for less frequently used openings where traffic across the opening prevents the use of fixed railings, such as openings located in aisle spaces. In addition, covers or guards shall be used to protect people from the hazards of open pits, tanks, vats, ditches, etc.

25.1.13. Simple yet dangerous work, such as excavation, earth and rock removal, may result in cave-ins, causing serious injuries or death by suffocation or crushing. Additional hazards from buried pipes or lines may also be encountered when excavating around utilities.

25.4.5. Walking-Working Surfaces. CE workers are frequently victims of falls at work sites inside and outside the shop. Walking and working surfaces often include a floor opening or platform through which persons may fall, such as a hatchway, stair or ladder opening, pit or large manhole. Elevated working spaces above the surrounding floor or ground, such as a balcony or platform for the operation of machinery and equipment, may also be encountered by civil engineering personnel. Supervisors will ensure fall protection procedures or systems are available and used by workers where the potential of a fall from a height of four (4) feet or more exists. Refer to **Chapter 7, Chapter 13** and 29 CFR 1910.23, *Guarding Floor and Wall Openings and Holes*, for additional guidance.

25.8. Shoring and Trenching. The walls and faces of excavations and trenches over five (5) feet in depth, where workers may be exposed to danger of a cave-in, shall be guarded by a shoring system, sloping and benching system or some other equivalent means consistent with 29 CFR 1926, Subpart P – Excavations. Trenches less than five (5) feet deep with hazardous soil conditions, shall also be effectively protected. Refer to 29 CFR 1926, *Subpart P - Excavations:* 1926.650, *Scope, Application and Definitions Applicable to Subpart P,* 1926.651, *Specific Excavation Requirements,* 1926.652, *Requirements for Protective Systems,* for additional guidance. **Note:** A competent person will examine the excavation soil to determine the need for a shoring system, sloping and benching system or some other equivalent means. A registered professional engineer shall be consulted in areas required by 29 CFR 1926, Subpart P – Excavations.

25.8.1. Appropriate trench boxes or shields may be used instead of shoring or sloping.

25.8.2. Tools, equipment and excavated material shall be kept two (2) feet or more from the lip of the trench. Where workers are required to be in or work in trenches 4-feet deep or more, an adequate means of exit such as ladders or steps shall be provided (within 25 feet of travel) and used.

25.8.3. Trenches and excavations over five (5) feet deep or more shall be inspected daily by the supervisor in charge to ensure there are adequate slopes, shoring, benching and bracing, and no evidence of possible slides or cave-ins. A new inspection is required whenever supervision on the site changes and the new supervisor will document and sign the inspection document. More frequent inspections may be necessary as work progresses or after inclement weather conditions, such as rain, or where loose compacted or unstable materials are present. Inspection(s) shall be documented and signed by the supervisor and a copy of the inspection document(s) shall be maintained on the site at all times.

25.8.4. Workers will take extra care when hand excavating in close proximity to utilities to preclude interruption of services, equipment damage or injury to workers, which can result from breaking electrical, gas or steam lines. Simple pre-planning, shoring and bracing, and hand digging around known utilities pipes and lines, should prevent most mishaps associated with excavations. AF Form 103, *Base Civil Engineering Work Clearance Request,* shall be coordinated and approved before any digging commences.

25.8.5. If a hazardous atmosphere exists or there is a potential for one to exist in the excavation (i.e., welding in/or near the excavations, other hazardous work activities, excavations in landfill areas or excavations in areas where hazardous substances are stored nearby), the atmospheres in the excavation shall be tested before workers enter excavations greater than four (4) feet in depth. The competent person shall consult with BE for proper atmospheric evaluation of the excavation.

25.8.6. Where the competent person finds evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres or other hazardous conditions, exposed workers shall be removed from the hazardous area until the necessary precautions have been taken to ensure their safety. The proper precautions shall be taken by the competent person which may include the following:

25.8.6.1. Cave-in. Fix the sloping and benching system or provide a shoring system. If cave-in is the result of water accumulation, then remove water and possibly use a shoring system if the competent person believes it is necessary.

25.8.6.2. Failure of protective system. If there is evidence of failure to the protective system, stop the work and replace the protective system.

25.8.6.3. Hazardous atmosphere. If the competent person suspects a potential hazardous atmosphere or there is one in the trench, workers shall be removed from the trench and testing shall be accomplished. Refer to paragraph **25.8.5** for additional guidance.

25.8.6.4. Water accumulation. Workers shall not work in excavations in which there is accumulated water, or in excavations in which water is accumulating, unless adequate precautions have been taken to protect workers against the hazards posed by water accumulation. The precautions necessary vary with each situation, but could include special support or shield systems to protect from cave-ins, water removal to control accumulating water or use of a safety harness and lifeline. **Note:** An attempt to remove the accumulating water shall be accomplished first.

25.9. Barricades and Traffic Signs. Whenever a common area is disturbed by CE maintenance, repair or construction operations and presents a hazard to personnel in the area (residents, other workers or passers-by), care shall be taken to warn these personnel and other engineering workers of the potential hazard.

25.9.1. Appropriate barriers shall be erected around excavations, open manholes, open electrical panels, etc., whenever they will be left unattended.

25.9.2. Appropriate warning signs and steady or flashing warning lights for periods of reduced visibility (i.e., nighttime operations, inclement weather, fog) shall be posted a sufficient distance from the hazard to give ample advance warning to approaching pedestrian or vehicular traffic. For vehicular traffic, comply with Department of Transportation's (DOT) *Manual on Uniform Traffic Control Devices (MUTCD).*

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14 | Dig Permit #: FY1406-003

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:
Tara S. Kunkel
(contact John Salazar for site access at 505-350-4793)

CONTACT INFORMATION:
Primary: 505-262-8906 (office), 505-967-9521 (cell)
Alternate: tara.kunkel@CBIFederalServices.com

Organization/Company Name:
CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☑ Clear	Remarks:	
	DOMESTIC AND RAW WATER Call 846-7863 / 846-1552	☑ Marked ☐ Clear	Remarks: Pothole	
	SEWER MAINS Call 846-7863 / 846-1552	☐ Marked ☑ Clear	Remarks:	
	GAS MAINS Call 846-7863 / 846-1552	☐ Marked ☑ Clear	Remarks:	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☑ Clear	Remarks:	
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☑ Clear	Remarks:	
	ELECTRICAL Call 853-6493	☐ Marked ☑ Clear	Remarks:	
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☑ Clear	Remarks:	
	TRAFFIC & ALARMS 853-6495	☐ Marked ☑ Clear	Remarks:	
	FUEL/POL LINES Call 934-2733	☐ Marked ☑ Clear	Remarks:	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☑ Clear	Remarks:	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☑ Clear	Remarks:	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd. 20685	☐ Marked ☑ Clear	Remarks: See attached notes - Env	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 589 846-2670	☐ Marked ☑ Clear	Remarks:	
	EOD Building 20413 846-2229	☐ Marked ☑ Clear	Remarks:	
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	☐ Marked ☑ Clear	Remarks:	
	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	☐ Marked ☑ Clear	Remarks:	
	FIRE DEPARTMENT Call 846-8305	☐ Marked ☑ Clear	Remarks:	
	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☑ Clear	Remarks:	
	GROUND SAFETY 846-4227 or 853-0268	☐ Marked ☑ Clear	Remarks: See attached notes - SEG	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

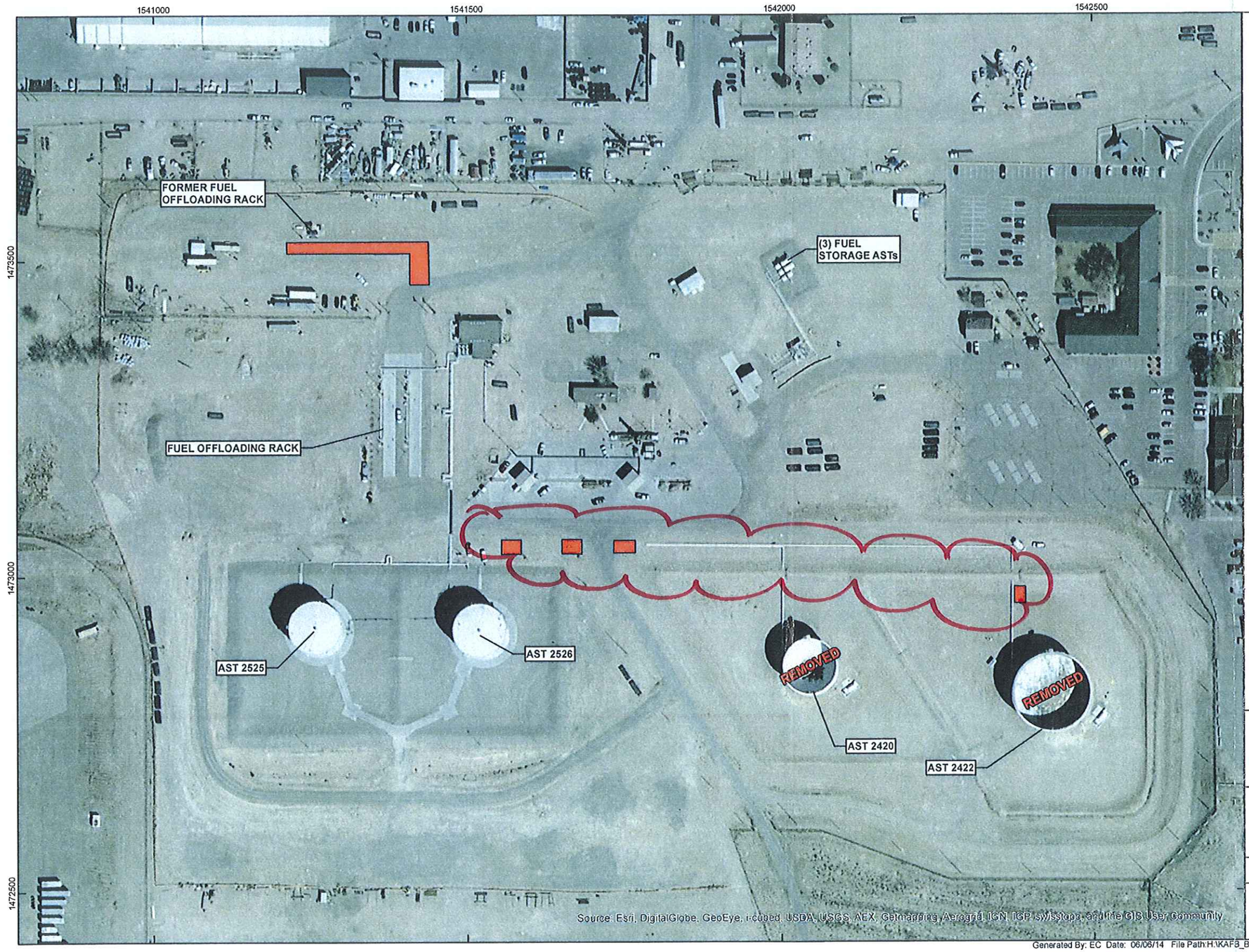
CLEARANCE IS : ☑APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE

APPROVAL DATE: June 19, 2014

EXPIRATION DATE: July 19, 2014

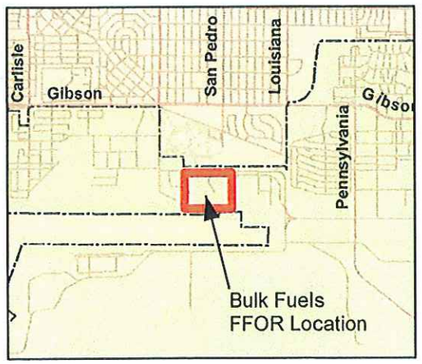
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE



Legend

- Excavation Area
- Kirtland Air Force Base Installation Boundary

FFOR = Former Fuel Offloading Rack



Source: USGS Digital Raster Graphics (Topographic Maps) (MSRMAPS.COM) 7.5 Minute Quadrangle, Albuquerque East 1:24000 updated: 1990

N

0 150 300 Feet

Projection : NAD_1983_StatePlane_New_Mexico_Central_FIPS_3002_Feet

FORMER FUEL OFFLOADING RACK
EXCAVATION
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

DIG PERMIT

FIGURE 1

Generated By: EC Date: 06/06/14 File Path:H:\KAFB_BFF\GISDocuments\Project_Maps\140705_EA010050_FFOR_DIG_PERMIT.mxd

Project Number: 140705

Summary of Work, KAFB Bulk Fuels Facility

Work is to be performed for excavation of contaminated soil at the Bulk Fuels Facility (BFF) Former Fuel Offloading Rack (FFOR). The proposed locations of excavation areas are shown on **Figure 1**. All excavation activities will take place inside the fenced, controlled-access area of the BFF south of Randolph Ave. The excavation will go to a maximum depth of 20 feet below ground surface. Approximately 1,600 cubic yards of contaminated soil will be excavated and disposed of at an off-base landfill. Below are some conditions that will apply to the work to be performed and subsections describing each portion of the work.

1. Utility location will be completed by a utility subcontractor and is scheduled for the week of June 23, 2014. Utility clearance will have been performed and all utilities marked before any excavation activities begin.
2. All excavated soil will be placed on polyethylene sheeting and covered with the same material to prevent the spread of contaminants.

Intrusive activities:

The excavation will be completed using a 50,000 pound excavator. CB&I will utilize a trench shield shoring system to enable excavation to total depth without risking cave-ins of the excavation sidewalls and to avoid the need for sloping. The excavation will commence by installing the trench shield system and advancing the box to total depth as the excavation progresses. Upon achieving total depth, backfill operations will commence and the trench shield system will be removed from the bottom up. Confirmation soil samples from the sidewall and floor of the excavation will be collected every 20 feet throughout the excavation.

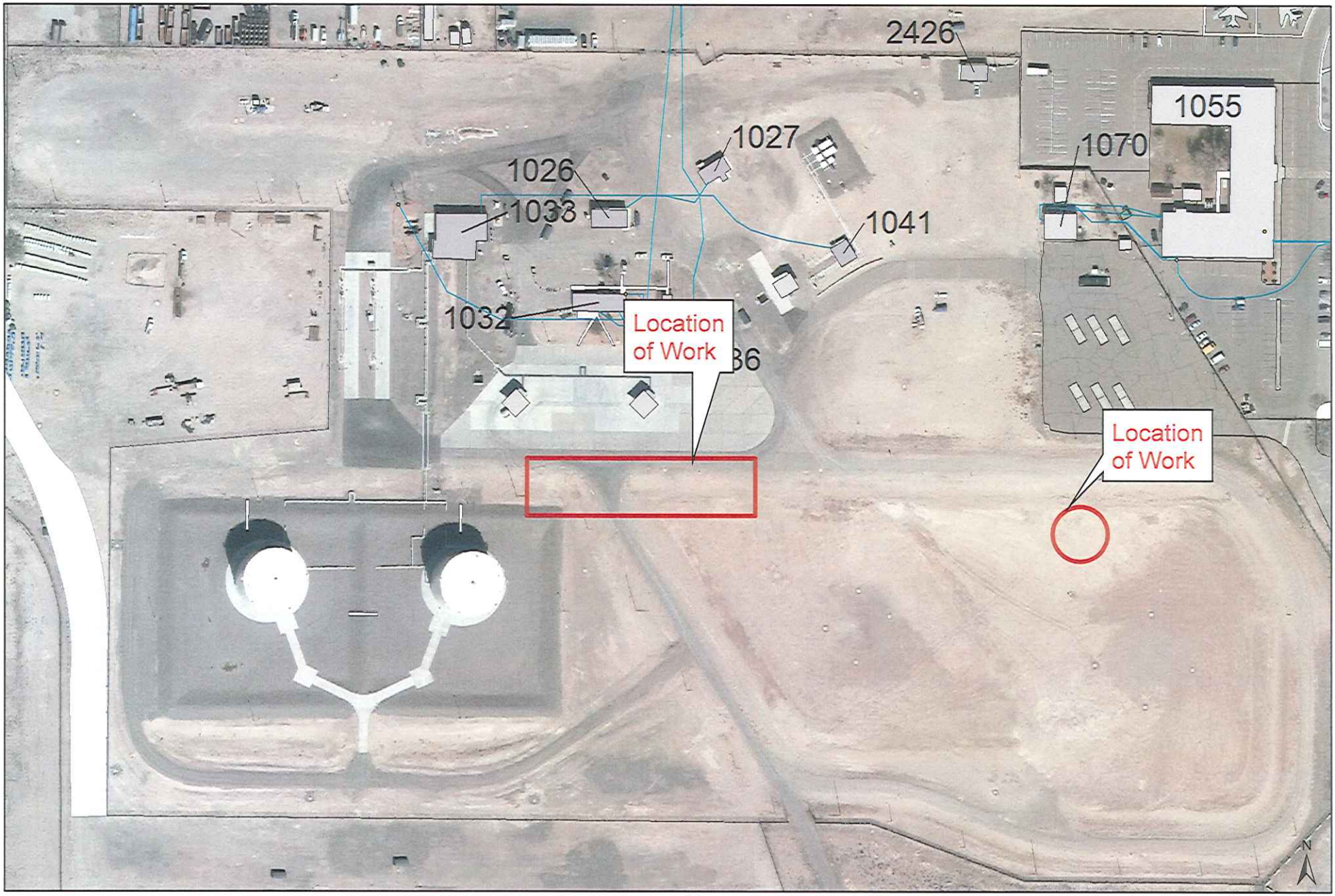
Waste Management:

Contaminated soil will be stockpiled on site in 200 cubic yard piles prior to transportation to the offsite landfill. Soil will be protected from wind and water erosion with polyethylene sheeting both underneath and covering the soil piles. Soil will be removed from site using over-the-road dump trucks and transported to the Valencia Regional Landfill in Los Lunas, New Mexico for disposal.

Waste water from decontamination of heavy equipment will be containerized in labeled 55-gallon poly drums pending analytical results. Based on the analytical results, water may be disposed of via a Notice of Intent to discharge to the ground surface, or at the Kirtland Wastewater Treatment Plant.

Excavation Backfill and Site Restoration:

Following excavation and collection of confirmation samples, clean soil backfill will be placed with the excavator bucket and will be spread in minimum 8-inch lifts possibly increasing to maximum 24-inch lifts with Kirtland AFB approval once demonstrated that soil can be compacted to 90% density. Compaction testing of soil backfill will be completed for every 8-inch lift of fill material using a nuclear soil density gauge to ensure compaction to 90% density in accordance with ASTM-D-1557. Following completion of backfill activities, the excavation area will be graded to match surrounding areas.

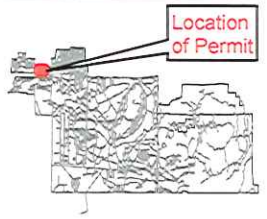


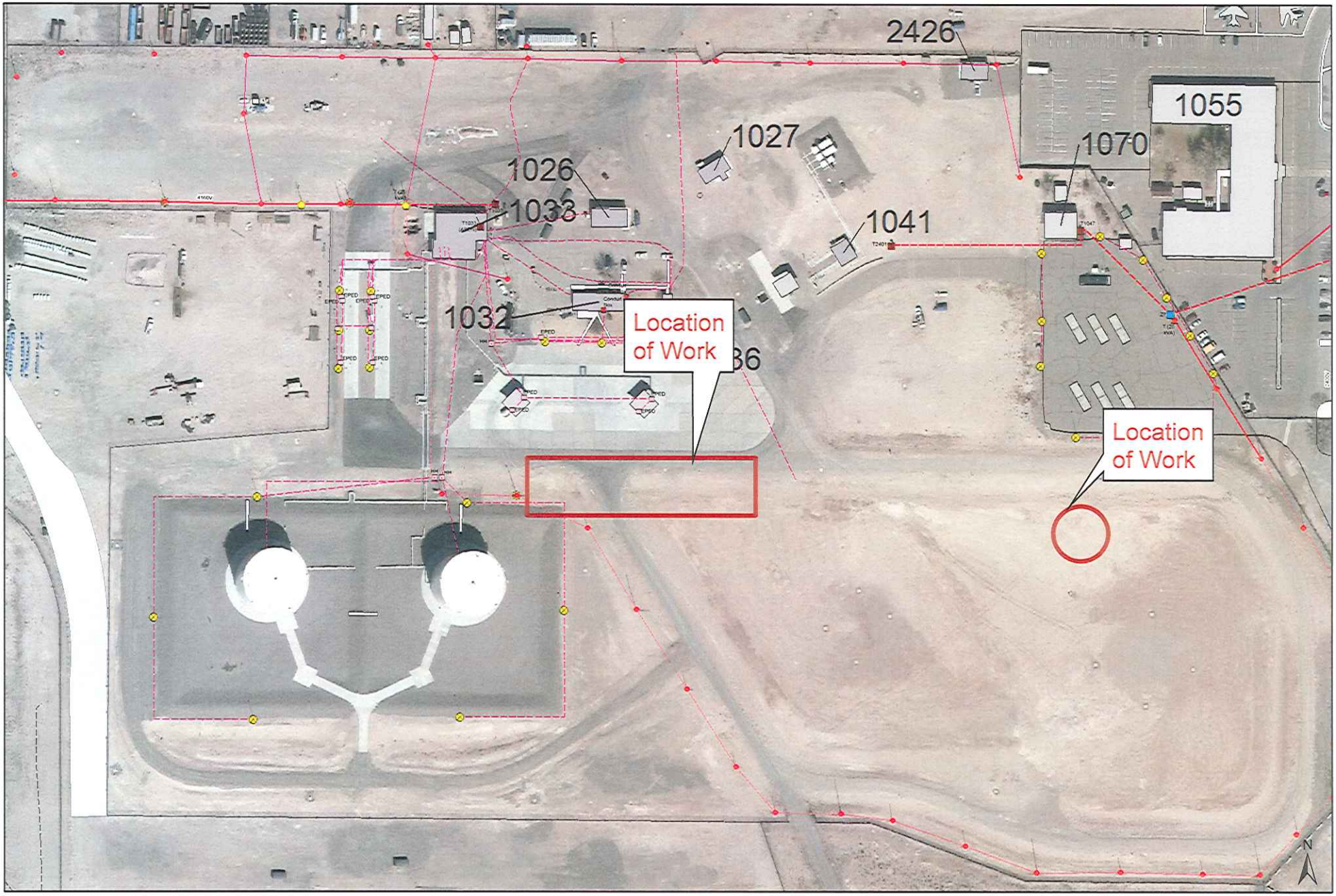
50 25 0 50 100 150 200 Feet

Comm

Site Utility Mapping

Permit # FY1406-003





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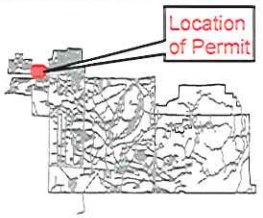
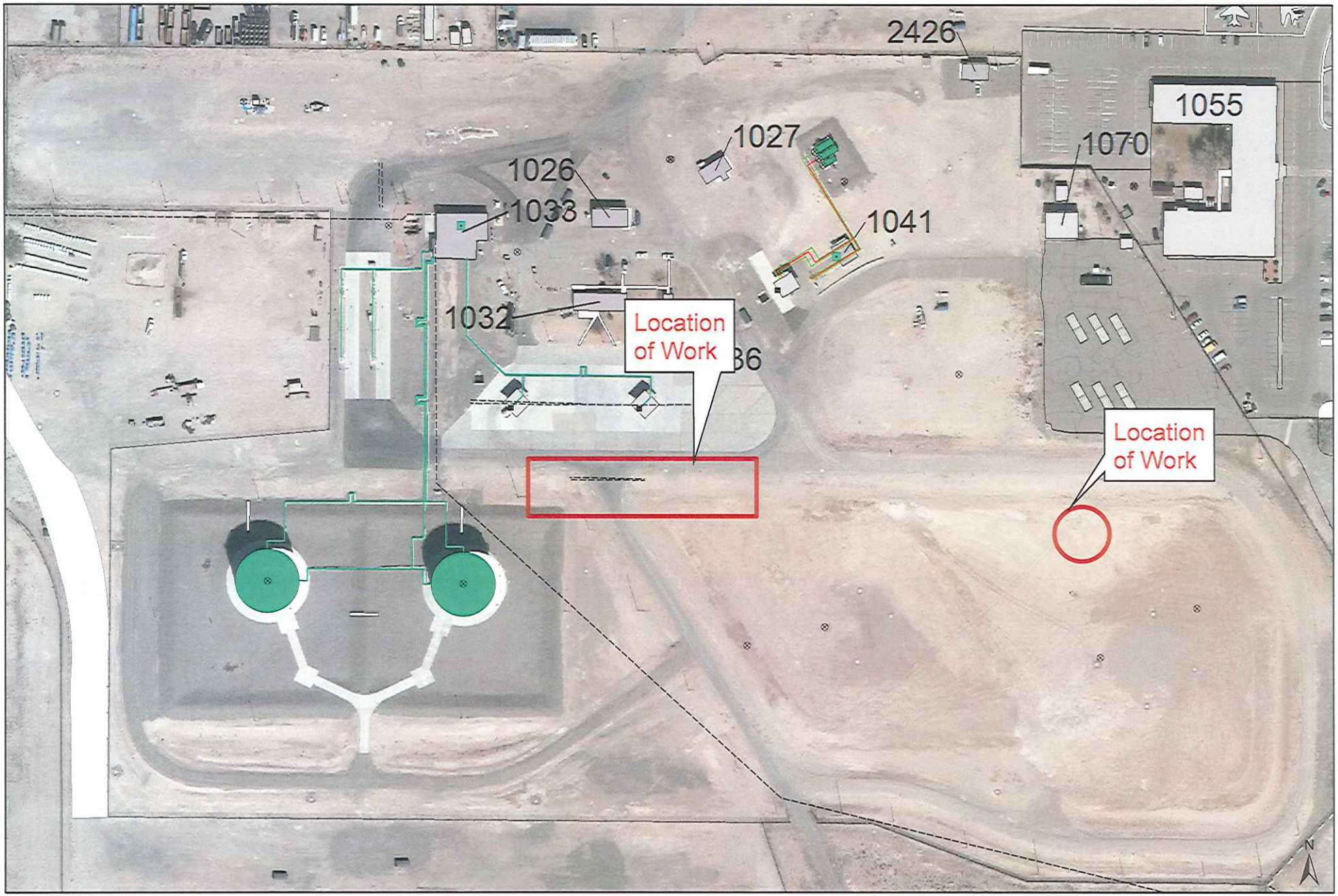
Electrical

Site Utility Mapping

Permit # FY1406-003





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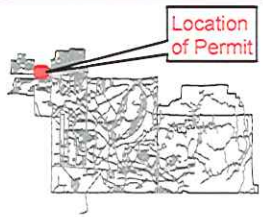
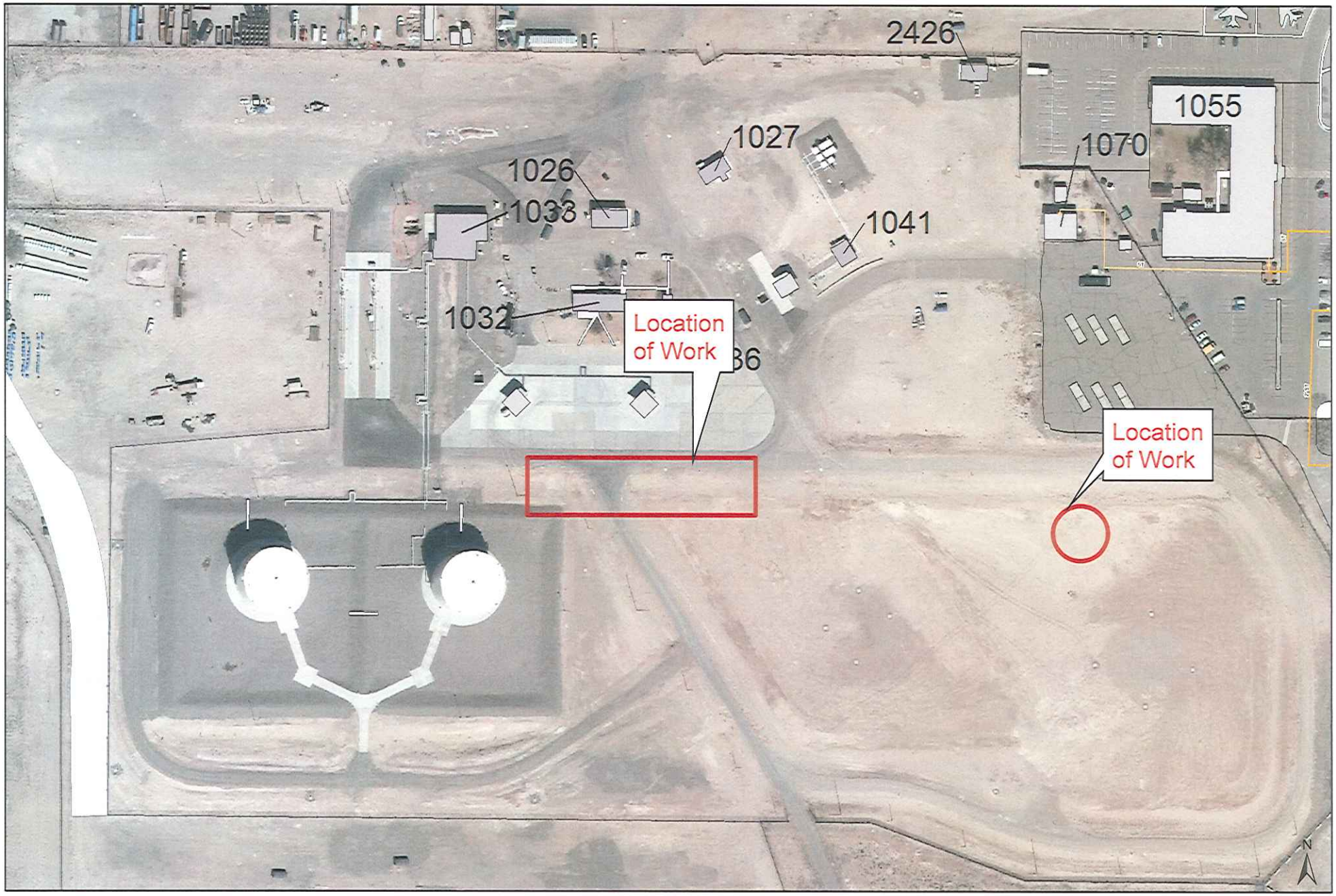
Fuel

Site Utility Mapping

Permit # FY1406-003





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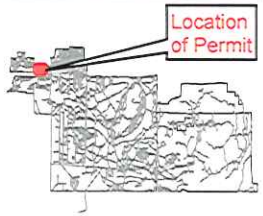
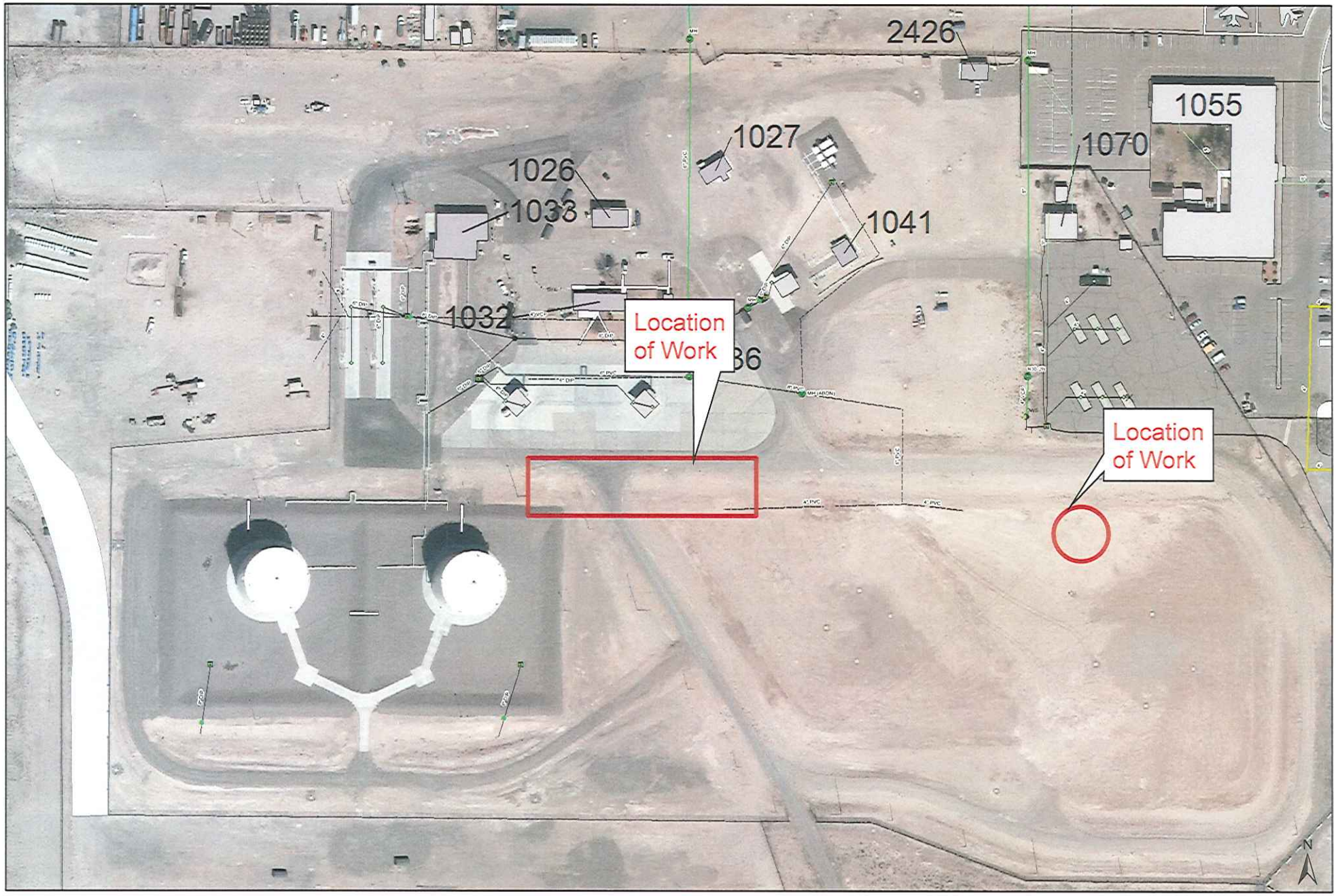
Gas

Site Utility Mapping

Permit # FY1406-003





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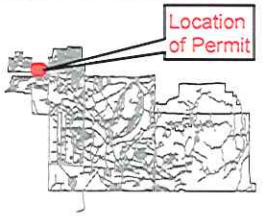
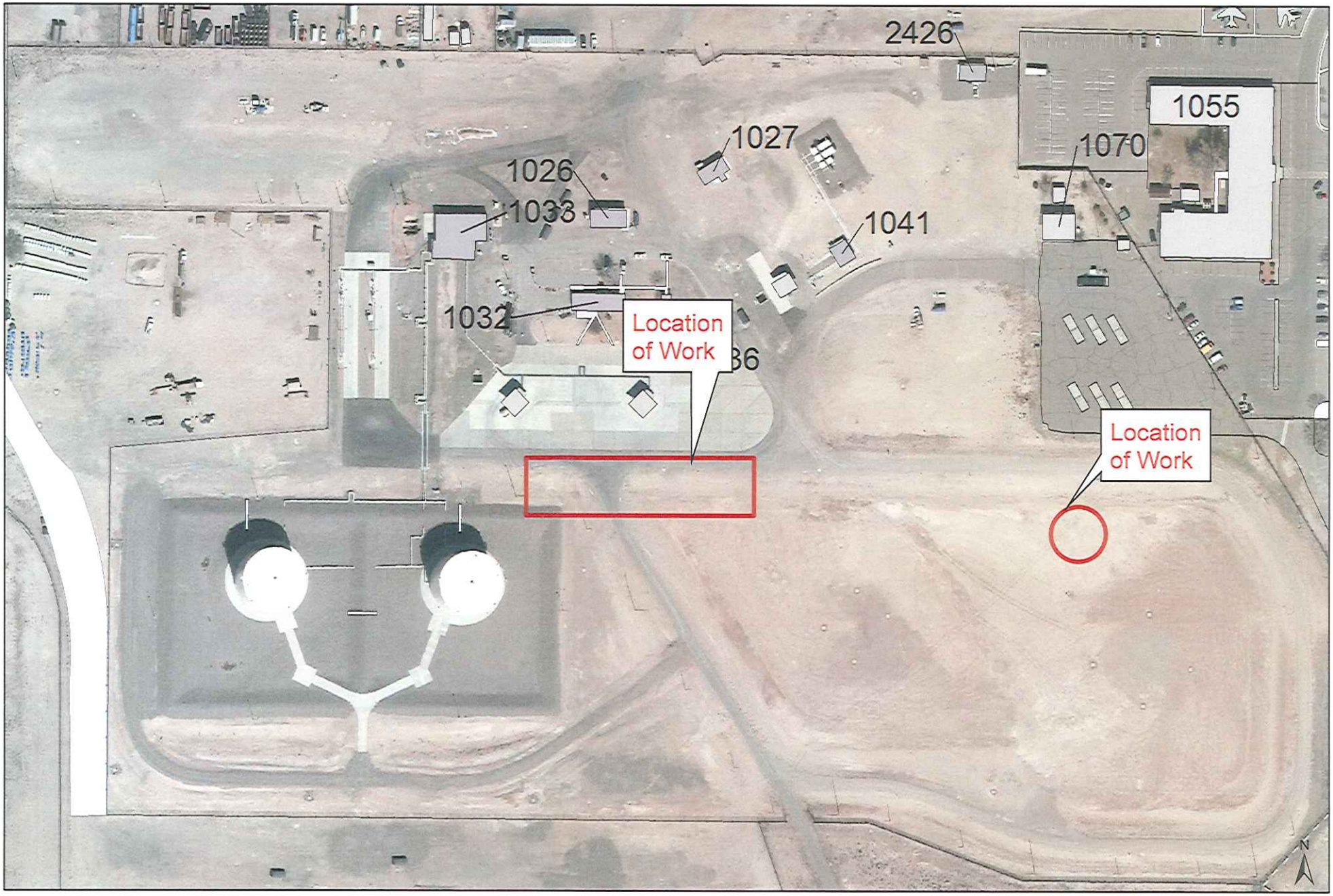
Sanitary

Site Utility Mapping

Permit # FY1406-003





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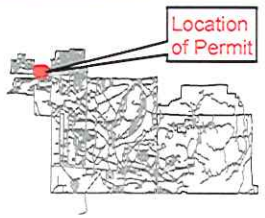
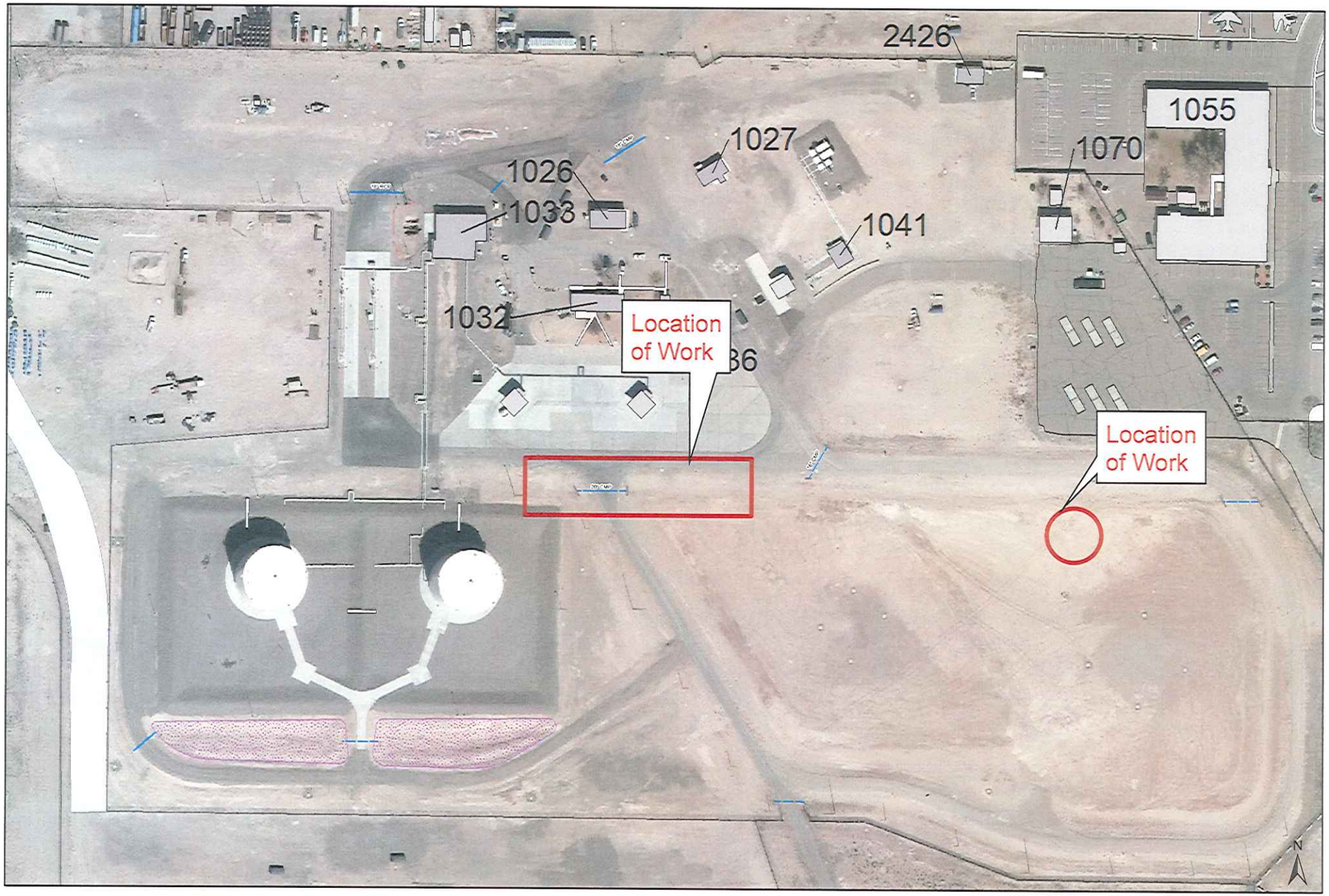
Steam

Site Utility Mapping

Permit # FY1406-003





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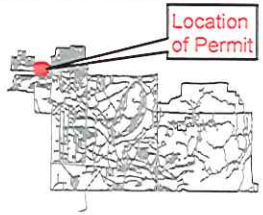
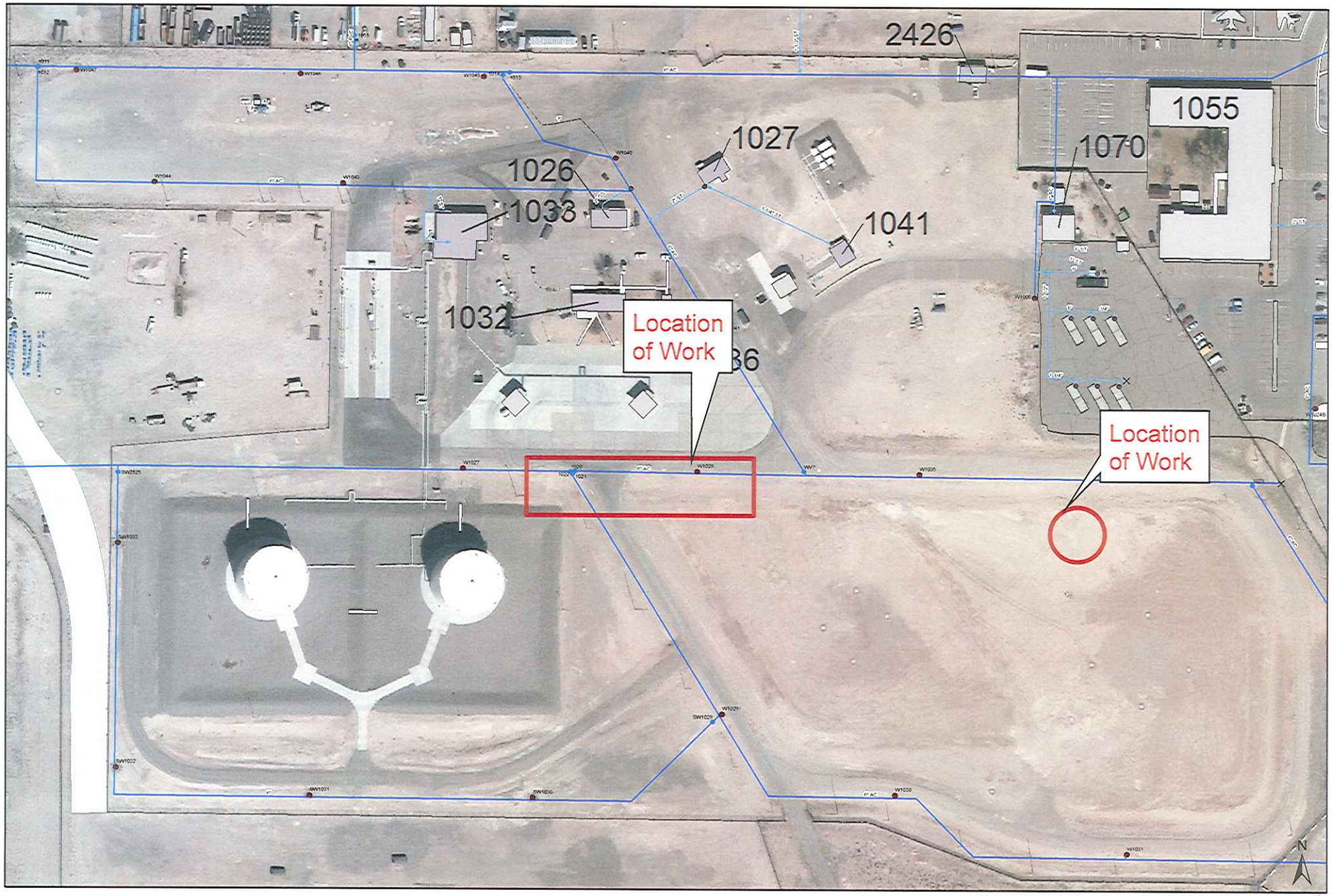
Storm

Site Utility Mapping

Permit # FY1406-003





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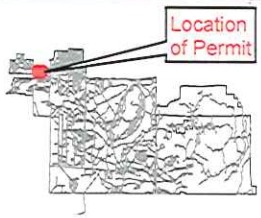
Water

Site Utility Mapping

Permit # FY1406-003



BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-003

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL [redacted]

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 505-350-4793)	Primary: 505-262-8906 (office), 505-967-9521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☒ Clear	Remarks: area clear of HV lines 269-7876 6-9-14	e-sign M.Tokatch
	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
	SEWER MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
	GAS MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☐ Clear	Remarks:	
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☐ Clear	Remarks:	
	ELECTRICAL Call 853-6493	☐ Marked ☐ Clear	Remarks:	
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☐ Clear	Remarks:	
	TRAFFIC & ALARMS 853-6495	☐ Marked ☐ Clear	Remarks:	
	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear	Remarks:	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☐ Clear	Remarks:	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☐ Clear	Remarks:	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear	Remarks:	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 569 846-2070	☐ Marked ☐ Clear	Remarks:	
	EOD Building 20413 846-2229	☐ Marked ☐ Clear	Remarks:	
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	☐ Marked ☐ Clear	Remarks:	
	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	☐ Marked ☐ Clear	Remarks:	
	FIRE DEPARTMENT Call 846-8305	☐ Marked ☐ Clear	Remarks:	
	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☐ Clear	Remarks:	
	GROUND SAFETY 846-4227 or 853-6268	☐ Marked ☐ Clear	Remarks:	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS : ☐APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE		

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-003

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

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Tara S. Kunkel (contact John Salazar for site access at 505-350-4793)	Primary: 505-242-8606 (office), 505-967-1521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

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UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	[ ] Marked [ ] Clear	Remarks:	
	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	[X] Marked [ ] Clear	Remarks:	DAN ROMERO-6-7863
	SEWER MAINS Call 846-7663 / 846-1552	[ ] Marked [X] Clear	Remarks:	D ROMERO
	GAS MAINS Call 846-7663 / 846-1552	[ ] Marked [X] Clear	Remarks:	D ROMERO
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	[ ] Marked [ ] Clear	Remarks:	
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	[ ] Marked [ ] Clear	Remarks:	
	ELECTRICAL Call 853-6493	[ ] Marked [ ] Clear	Remarks:	
	CATHODIC PROTECTIONS CECX 846-4633	[ ] Marked [ ] Clear	Remarks:	
	TRAFFIC & ALARMS 853-6495	[ ] Marked [ ] Clear	Remarks:	
	FUEL/POL LINES Call 934-2733	[ ] Marked [ ] Clear	Remarks:	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-6564	[ ] Marked [ ] Clear	Remarks:	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-6564	[ ] Marked [ ] Clear	Remarks:	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	[ ] Marked [ ] Clear	Remarks:	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 689 846-2670	[ ] Marked [ ] Clear	Remarks:	
	EOD Building 20413 846-2229	[ ] Marked [ ] Clear	Remarks:	
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	[ ] Marked [ ] Clear	Remarks:	
	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	[ ] Marked [ ] Clear	Remarks:	
	FIRE DEPARTMENT Call 846-8305	[ ] Marked [ ] Clear	Remarks:	
	WEAPONS SAFETY 841-914 or 841-4229	[ ] Marked [ ] Clear	Remarks:	
	GROUND SAFETY 846-4227 or 853-6268	[ ] Marked [ ] Clear	Remarks:	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS : ☐APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE		

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-003

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY __X__ NORMAL

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 505-350-4703)	Primary: 505-262-3806 (office), 505-967-5521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	☐ Marked ☐ Clear	Remarks:	
	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
	SEWER MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
	GAS MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear	Remarks:	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☑ Clear	Remarks:	Arthur Johnson
	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☐ Clear	Remarks:	
	ELECTRICAL Call 853-6493	☐ Marked ☐ Clear	Remarks:	
	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☐ Clear	Remarks:	
	TRAFFIC & ALARMS 853-6495	☐ Marked ☐ Clear	Remarks:	
	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear	Remarks:	
	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☐ Clear	Remarks:	
	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☐ Clear	Remarks:	
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear	Remarks:	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 569 846-2670	☐ Marked ☐ Clear	Remarks:	
	EOD Building 20413 846-2229	☐ Marked ☐ Clear	Remarks:	
	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	☐ Marked ☐ Clear	Remarks:	
	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	☐ Marked ☐ Clear	Remarks:	
	FIRE DEPARTMENT Call 846-8305	☐ Marked ☐ Clear	Remarks:	
	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☐ Clear	Remarks:	
	GROUND SAFETY 846-4227 or 853-0268	☐ Marked ☐ Clear	Remarks:	
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS : ☐APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE		

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG
Sent: Tuesday, June 10, 2014 6:50 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Christine, dig permits, FY1406-002, and 003, are clear of any irrigation, Abel.

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE: 6/9/14

Dig Permit #: FY1406-003

LOCATION: Bulk Fuels Facility (Investigation Area)

CONTRACT #, WORK ORDER# BOA: W912DY-10-D-0314

__ IMMEDIATE EMERGENCY __X__ NORMAL

PLANNED DIG DATE: 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 505-[illegible]93)	Primary: 505-262-8935 (office), 505-967-9521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

I understand that that authorization to dig is [illegible] cost upon completing the enclosed terms of compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the [illegible] location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATIONS		COORDINATORS ACTIONS & REMARKS	COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL DISTRIBUTION Call 846-8145	Mark / Clear	Remarks	
UTILITIES	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	Mark / Clear	Remarks:	
UTILITIES	SEWER MAINS Call 846-7663 / 846-1552	Mark / Clear	Remarks:	
UTILITIES	GAS MAINS Call 846-7663 / 846-1552	Mark / Clear	Remarks:	
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	Mark / Clear	Remarks:	
OPERATIONS	IRRIGATION IS CURRENTLY SERVICEABLE CALL [illegible]	Mark / Clear	Remarks:	
OPERATIONS	ELECTRICAL Call 853-6493	Mark / Clear ✓	Remarks: Elec Clear	B Velgus 550-5185
OPERATIONS	CATHODIC PROTECTIONS CECX 846-4631	Mark / Clear ✓	Remarks: Cath clear	B Velgus " "
OPERATIONS	TRAFFIC & ALARMS 853-6455	Mark / Clear	Remarks:	
OPERATIONS	FUEL/POL LINES Call 934-2735	Mark / Clear	Remarks:	
OPERATIONS	LP GAS, WATER AND SEWER SERVICE LINES/ATG [illegible] 846-6203/934-[illegible]	Mark / Clear	Remarks:	
OPERATIONS	FIRE PROTECTION SYSTEMS Call 846-5291/934-6684	Mark / Clear	Remarks:	
CE	ENVIRONMENTAL 2050 Wyoming Blvd 20087	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 589 846-7670	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	EOD Building 20413 846-2223	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	COMMUNICATIONS Call 846-6411 dial 2041[illegible]	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	SECURITY FORCE Resource Protection Call 846-6209 / dial 911	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	FIRE DEPARTMENT Call 846-8305	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	WEAPONS SAFETY 841-914 or [illegible]	Mark / Clear	Remarks:	
OTHER BASE AGENCIES	GROUND SAFETY 846-4227 or 853-0268	Mark / Clear	Remarks:	
	COMMERCIAL UTILITIES New Mexico One Call [illegible] 48 Hours before [illegible]			

CLEARANCE IS [illegible] DENIED (For [illegible] or Approval date) DISAPPROVED (Reason)

APPROVING CIVIL ENGINEER SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE [illegible] SIGHT UNTIL COMPLETE		

BASE CIVIL ENGINEER DIGGING PERMIT REQUEST

DATE 6/9/14 | Dig Permit #: F 4405-003

LOCATION: Bulk Fuels Facility (investigative area)

CONTRACT #, WORK ORDER# ECT: W912DY-10-D-0014

__ IMMEDIATE EMERGENCY _X_ NORMAL [redacted]

PLANNED DIG DATE 6/25/14

Detailed description of work (holes, trenching, etc):

Performing soil excavation to 20 feet below ground surface to remove approximately 1,600 cubic yards of contaminated soil in the area of the former fuel offloading rack at the Bulk Fuels Facility. (See attached sheets for work details and location)

PRINTED NAME OF RESPONSIBLE REQUESTOR:	CONTACT INFORMATION:	Organization/Company Name:
Tara S. Kunkel (contact John Salazar for site access at 605-350-4793)	Primary: 605-282-8506 (office), 605-967-9521 (cell) Alternate: tara.kunkel@CBIFederalServices.com	CB&I Federal Services

I understand that that authorization to dig is conditional upon completing the entire form and compliance with the guidelines briefed as well as compliance with applicable OSHA and AFOSH requirements. I understand the exact location of a buried line may be located approximately four (4) feet on either side of the marked location.

	COORDINATING ORGANIZATION	COORDINATORS ACTIONS & REMARKS		COORDINATORS NAME & PHONE
UTILITIES	ELECTRICAL D STRIBUTION Call 846-8145	☐ Marked ☐ Clear Remarks:		
UTILITIES	DOMESTIC AND RAW WATER Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks:		
UTILITIES	SEWER MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks:		
UTILITIES	GAS MAINS Call 846-7663 / 846-1552	☐ Marked ☐ Clear Remarks:		
OPERATIONS	PAVEMENTS & STORM DRAINS Call 846-5650/846-2994	☐ Marked ☐ Clear Remarks:		
OPERATIONS	IRRIGATION IS CURRENTLY SERVICEABLE CALL 6-1803	☐ Marked ☐ Clear Remarks:		
OPERATIONS	ELECTRICAL Call 853-6493	☐ Marked ☐ Clear Remarks:		
OPERATIONS	CATHODIC PROTECTIONS CECX 846-4633	☐ Marked ☐ Clear Remarks:		
OPERATIONS	TRAFFIC & ALARMS 853-6495	☒ Marked ☐ Clear Remarks:	6-10-14	ERNIE 3-6495
OPERATIONS	FUEL/POL LINES Call 934-2733	☐ Marked ☐ Clear Remarks:		
OPERATIONS	LP GAS, WATER AND SEWER SERVICE LINES/LATERALS Call 846-5293 934-9664	☐ Marked ☐ Clear Remarks:		
OPERATIONS	FIRE PROTECTION SYSTEMS Call 846-5293/934-9664	☐ Marked ☐ Clear Remarks:		
CEC	ENVIRONMENTAL 2050 Wyoming Blvd 20685	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	BIO-ENVIRONMENTAL Building 569 846-2670	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	EOD Building 20413 846-2229	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	COMMUNICATIONS Call 846-8411 bldg 20420 Rm D	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	SECURITY POLICE Resource Protection Call 846-6209 bldg 20220	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	FIRE DEPARTMENT Call 846-8305	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	WEAPONS SAFETY 841-914 or 841-4229	☐ Marked ☐ Clear Remarks:		
OTHER BASE AGENCIES	GROUND SAFETY 846-4227 or 853-0268	☐ Marked ☐ Clear Remarks:		
	COMMERCIAL UTILITIES New Mex ONE CALL 260-1990 48 Hours before digging			

CLEARANCE IS : ☐APPROVED (For 30 Days from Approval date) ☐DISSAPPROVED (Reason)

APPROVING CIVIL ENGINEERING SIGNATURE	APPROVAL DATE	EXPIRATION DATE
A COPY OF THIS APPROVED FORM MUST BE AT THE DIGGING SIGHT UNTIL COMPLETE		

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP
Sent: Monday, June 09, 2014 3:01 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

All water gas fuels fire suppression and sewer are clear.

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

Env

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE
Sent: Monday, June 16, 2014 7:49 AM
To: 377 MSG/CEC Digging Permits Mail
Cc: GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Attachments: FY1406-002_003.pdf
Signed By: lori.crump@kirtland.af.mil

Attached Checklist of Environmental Requirements applies to FY1406-002 and 003. Please note guidance AQ3, WQ2, and CR3.

NOTE: If any ground disturbance other than what is identified in the dig permit is to occur, then you MUST coordinate with Air Quality and Water Quality Program personnel (identified attached Checklist) prior to any ground disturbance.

Thanks,

Michelle

Michelle Bare

Kirtland AFB CTR - NEPA Group

377 MSG/CEIE

2050 Wyoming Blvd SE, Rm 116a

Kirtland AFB NM 87117

505-846-3774

FAX 505-846-4000

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM

Checklist of Environmental Requirements for Proposed Project

	Air Quality Program – POC: Ms. Andria Cuevas @ 846-2522 or via e-mail: airquality@kirtland.af.mil
AQ 1	**Asbestos:** Due to the age of the building, ACM may be present. Files are available for review by a Certified Asbestos Inspector. ***Contact Air Quality Program POC*** to coordinate access to the files. If suspected ACM is encountered and will be disturbed, then ACM sampling should be performed by the contractor with abatement as necessary prior to commencing the proposed work on the building. ***NOTE:*** Notification to the AEHD in accordance with 20.11.20.22 NMAC is required for ACM disturbance. Additional guidance and forms can be found at the City of Albuquerque's website: http://www.cabq.gov/airquality/businessapplicationspermitsandforms.html#asebstosforms
AQ 2	**Lead Based Paint:** Due to the age of the building, LBP may be present; files are available for review. Contact Air Quality Program personnel to coordinate access to files. If suspected LBP is encountered and will be disturbed, LBP sampling should be performed by the contractor with abatement as necessary prior to commencing the proposed work on the building. ***Coordination/Consultation with Air Quality Program POC required.***
AQ 3	**Ground Disturbance:** • If the total ground disturbance is ***greater than or equal to ¾ acre***, then a Fugitive Dust Permit will be required. ***Fugitive Dust Permits must be submitted to the Air Quality Program for review***, and 377 ABW/CC signature, five (5) weeks prior to the anticipated start date of soil disturbance. ***NOTE***: AEHD AQD requires all Fugitive Dust Permits be submitted to their office 10 business days prior to anticipated start date of soil disturbance and will require a site inspection prior to issuing the permit. • If the total ground disturbance is ***less than ¾ of an acre***, then a fugitive dust permit is not required; however, the contractor must still comply with the following general provisions from 20.11.20.12 NMAC: "Each person shall use reasonably available control measures or any other effective control measure during active operations or on inactive disturbed surface areas, as necessary to prevent the release of fugitive dust, whether or not the person is required by 20.11.20 NMAC to obtain a fugitive dust control permit. It shall be a violation of 20.11.20 NMAC to allow fugitive dust, track out, or transported material from any active operation, open storage pile, stockpile, paved or unpaved roadway, disturbed surface area, or inactive disturbed surface area to cross or be carried beyond the property line, right-of-way, easement or any other area under control of the person generating or allowing the fugitive dust if the fugitive dust may: (1) with reasonable probability injure human health or animal or plant life; (2) unreasonably interfere with the public welfare, visibility or the reasonable use of property; or (3) be visible for a total of 15 minutes or more during any consecutive one hour observation period using the visible fugitive dust detection method in 20.11.20.26 NMAC or an equivalent method approved in writing by the department. Failure to comply with 20.11.20.12 NMAC, a fugitive dust control permit, plan, term or condition shall be a violation of 20.11.20 NMAC."
AQ 4	**Boilers:** Natural gas boilers/hot water heaters of size greater than five (5) million BTU (MMBTU) require Stationary Source Air Permitting. If planning to install a boiler fueled by anything other than natural gas, contact Air Quality Program personnel immediately to determine if a permit is needed. If an air permit is required, the permit must be issued prior to purchase of the boiler(s) and can take up to seven (7) months to accomplish. The Air Quality Program is required to track boilers of all sizes/fuel types to comply with the basewide air permit (Title V Operating Permit). ***Coordination/Consultation with Air Quality Program POC required.***
AQ 5	**Refrigerant:** Ensure all equipment containing refrigerant and all HVAC technicians comply with the requirements in 40 CFR Part 82. ***Before the old A/C unit is removed, notify Air Quality Program POC with the following information from the old A/C unit:*** 1. Make 2. Model 3. Refrigerant Type 4. Charge/Amount Recovered ***For any A/C unit installation, provide Air Quality Program POC with the following information from the new unit:*** 1) Type of appliance (comfort, commercial, industrial, other) 2) Manufacturer 3) Model 4) Serial number (or other method of ID used by facility and/or contractors) 5) Refrigerant type 6) Amount of full charge of refrigerant 7) Name/contact information of company contracted for A/C system maintenance.
AQ 6	**Generators:** All emergency generators are required to have a 20.11.41 NMAC Authority to Construct (ATC) permit from the Albuquerque Environmental Health Department (AEHD) Air Quality Division (AQD). The ATC permit must be in place prior to "commencing construction", which means prior to purchasing the unit (20.11.41.7.C NMAC). It may take as long as 7 months from the initiation of the permit application preparation process to receive a permit from the AEHD AQD. The project is expected to pay for the cost of preparing the permit application and the associated AEHD AQD permit fees. The organization must plan to pay annual emission fee assessed by the AEHD AQD. Contact Air Quality Program personnel to discuss the timeline for the project. ***Coordination/Consultation with Air Quality Program POC required.***

effective: 1 April 2014
created for Kirtland AFB
by Martha E. Garcia

	Air Quality Program – POC: Ms. Andria Cuevas @ 846-2522 or via e-mail: airquality@kirtland.af.mil
AQ 7	**Building Demolition:** If the building to be demolished is more than 75,000 cubic feet of space then a Fugitive Dust Permit will be required prior to demolition (***refer to AQ3 – first bulleted item***). An asbestos notification form must be submitted for all building demolition activities, even if no regulated asbestos-containing material (ACM) is present in the building or structure (***refer to AQ1***).
AQ 8	**Air Quality Permitting for New Sources:** An air quality permit from the AEHD AQD may be required for the proposed equipment prior to construction. ***Coordination with the Air Quality POC is required*** to ensure the appropriate measures are taken in the event the source must obtain an air quality permit. It may take as long as seven (7) months from the initiation of the permit application preparation process to receive a permit from AEHD AQD. The project is expected to pay for the cost of preparing the permit application and the associated AEHD air quality permit fees. The organization must also plan to pay emission fees for the permitted source on an annual basis.
AQ 9	**Permitting and/or Reporting Requirements Exist for Activity:** Activities require Open Burn/Open Detonation permitting through the City of Albuquerque **OR** there is requirement to report munition items expended during event. ***Prior Coordination with the Air Quality POC is required.***
	Hazardous Waste Program – POCs: Ms. Rebecca Clines and Ms. Cheryl Frischkorn @ 846-0003 or via e-mail: 377MSG.Hazwaste@us.af.mil
HW 1	**Transformers:** When removing/replacing – fluids must be sampled to ensure they are correctly characterized for proper disposal. ***Contact Hazardous Waste POCs to schedule/assist with sampling.***
HW 2	**Fluorescent lamps, ballasts:** If not removed by base maintenance contractor or Honeywell, ***contact the Hazardous Waste program immediately*** to arrange for disposal.
HW 3	**Disposal of Hazardous Materials/Hazardous Waste** All hazardous materials used on base for official activities require authorization through 377MSG/CEIE (846-8781) and hazardous waste (HW) generated during these official activities must be manifested off the base according to US EPA and State of New Mexico Environmental Department (NMED) statutes. ***Contact the Civil Engineers Directorate, Environmental Office (377MSG/CEIE) at 846-0003 or email: 377 MSG.Hazwaste@us.af.mil for assistance in mandatory HW disposal guidance.*** *Exceptions - Most home use and personal care, household hazardous chemicals and wastes (HHHW) are exempt; however, some home and auto-care chemicals must be properly recycled or disposed - examples include: fluorescent tubes, pesticides, lead acid batteries, used antifreeze and engine oil.*
HW 4	**Paints &Stains from Renovations &Self-Help Projects:** If touch-up paint or stain is left behind by the Contractor, building managers shall ensure that the material is properly stored (inside, away from temperature extremes) and if not used before it expires, ensure that it is properly disposed. ***Contact the base maintenance contractor (846-8222) for usable paints and stains. Contact the Hazardous Waste Program POCs for disposal of waste paints and stains.***
	Hazardous Materials Program – POC: Program Manager: Ms. Lori Crump @ 846-8781 Program Support: Ms. Faith Weston @ 846-2509
HM 1	Any hazardous materials used in the proposed project needs to be identified either by authorizing the material(s) under a shop in EESOH-MIS or by filling out, submitting, and following the guidelines in the short term contractor Memo and worksheet. Please turn in the worksheet, inventory list, and manufacture specific MSDS(s) to the 377th CEIE Hazardous Material program office. Please ***contact Hazardous Materials POCs for Memo and worksheet***.
HM 2	Any hazardous materials used in the proposed deployment need to be identified by filling-out, submitting, and following guidelines in the deployment memo and worksheet. Please turn in the worksheet, inventory list, and manufacturer specific MSDSs to the 377th CEIE Hazardous Material program office. Please ***contact Hazardous Materials POCs for Memo and worksheet.***
	Solid Waste/Recycling – POC: Program Manager: Ms. Katrina Wheelock @ 853-2486
SW 1	**Cleanouts:** Material being disposed must not include items prohibited from disposal as solid waste (examples: fluorescent bulbs/ballasts, hazardous wastes or materials, asbestos waste, etc.). ***Contact Solid Waste/Recycling Program Manager for guidance.***
SW 2	**Equipment Disposal:** ***Coordinate with DRMO (853-2269)*** to establish whether equipment needs to be turned in. ***Contact your Unit Equipment Manager*** to remove equipment from supply/asset inventories turning in or disposing.
SW 3	**Minor Construction:** If using Kirtland AFB C&D Landfill for disposal, segregate scrap metal and corrugated cardboard for recycling at the landfill's recycling area. If project waste is to be disposed or recycled off-base, ***report all weight/volume disposed or recycled to the Solid Waste/Recycling Program Manager.***
SW 4	**Major Construction/Demolition:** Ensure that Section 01 74 19 (Construction Waste Management, updated 06/2012) is included in project specifications.
SW 5	**Scrap Metal:** Segregate scrap metal for recycling. Small amounts should be brought to the Kirtland AFB C&D Landfill's recycling area. Dumpsters/roll-offs for recycling larger amounts of scrap metal must be obtained via AF Form 332 unless the scrap metal is generated as part of a contracted construction/demolition project. ***Contact Solid Waste/Recycling Program Manager for guidance.***
	Restoration Program – POC: Chief of Env. Restoration: Mr. Wayne Bitner @ 853-3484
R1	Due to the potential for encountering Unexploded Ordnance (UXO), any fieldwork south of Hardin Blvd requires workers to complete UXO Awareness training. ***The 377 MSG/CED EOD Group can provide this short training. They can be contacted at 846-2229.***
R2	Impacts to Environmental Restoration Sites are possible. ***Please contact Restoration Program POC before doing any work***.

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created for Kirtland AFB
by Martha E. Garcia

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	Water Quality Program – POC's: Ms. Andria Cuevas @ 846-2522 and Ms. Rebecca Clines @ 846-2306
WQ 1	**Wastewater – Septic Tanks/Leach Fields:** When feasible, new construction and remodels should connect to the sanitary sewer system. If a new septic system is the only viable option, the septic tank and leach field must meet the requirements of the NMED Liquid Waste Bureau and be registered with the state. Consult the NMED Liquid Waste requirements concerning removal and/or demolition of a septic tank (20.6.2 NMAC, http://www.nmcpr.state.nm.us/nmac/_titles.htm). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 2	**Land Disturbance less than 43,560sqft (1 acre) - Municipal Separate Storm Sewer System (MS4) applies:** The MS4 permit requires all construction activities, regardless of size, to implement best management practices (BMPs) to ensure that storm water pollutants are contained to the maximum extent practical and do not enter the storm drainage system (http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm, item 4. Additionally, all non-storm water discharges must be approved by the Water Quality Program **prior to discharge**; all other non-storm water discharges are **prohibited**. Contractors **must** certify completion of the approved MS4 training (10 minutes, provided by email utilizing a vote button to certify). Training **must** be completed prior to earth disturbing activities. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 3	**Land Disturbance Equal to or Greater than 43,560sqft (1 acre) – Construction General Permit (CGP) applies:** CGP applies to any individual project or series of projects/common development plans that cumulatively disturb one (1) acre. Contractors **must** develop a Storm Water Pollution Prevention Plan (SWP3), a draft Notice of Intent (NOI), and a detailed site map for approval by the Water Quality Program at least four (4) weeks prior to the contractor's submission of the approved NOI to the Environmental Protection Agency (EPA). Contractors **must** submit NOIs at least fourteen (14) calendar days prior to commencing ground disturbance (**Note**: 6 weeks total required). Ground disturbance **cannot** begin for fourteen (14) calendar days after EPA acknowledges receipt of the NOI (http://cfpub.epa.gov/npdes/stormwater/cgpenoi.cfm), or unless EPA delays or denies authorization. BMPs complying with the permit conditions **must** be in place before any ground disturbance commences. MS4 permit conditions and training noted above in WQ 2 also apply. *Upon project completion,* Contractor **must** achieve final stabilization, in accordance with Part 2.2.2 and Part 9.4.1 of the CGP, prior to submitting a Notice of Termination (NOT) to the EPA and NMED. Contractor **must** comply with the NMED Surface Water Quality conditions specified in Part 9.4 of the CGP (20.6.4 NMAC, http://www.nmcpr.state.nm.us/nmac/_titles.htm). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 4	**Facilities/Renovations with New Footprints Greater Than 5,000 gross sq ft - EISA, Section 438 applies:** The project footprint consists of all horizontal hard surfaces and disturbed areas, including both building area and pavements. The Energy Independence Security Act (EISA) requirements do not apply to internal renovations, maintenance, or resurfacing of existing pavements. Projects **must** conform to Air Force Sustainable Design and Development (SDD) guidance dated 2 June 2011 and the Unified Facilities Criteria (UFC-2-210-10). **Note: use of retention ponds is strictly prohibited**. Contractor **must** populate and validate the approved EISA spreadsheet prior to land disturbance. EISA estimated cost, written as a separate line-item of estimated cost, and final implementation cost **must** be documented in the project file. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 5	**Wastewater – Oil Water Separators, Grease and Sand Traps:** Equipment should only be installed at all locations with an identified need and no feasible alternative. Design features and processes should be substantially reviewed prior to installation of equipment (include in DD 1391 if required). ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 6	**Wastewater – Port-a-Potties:** For all projects/events, the contractor must anchor port-a-potties to prevent toppling of the unit. All projects and events that will utilize gray (hand wash station) and black water (port-a-potties) systems must ensure that the contents are disposed of in accordance with local, state and federal laws. ***Coordination/Consultation with Water Quality Program POC's required.***
WQ 7	**Wastewater – Fire Suppression System Discharge:** Discharges from fire suppression systems utilizing chemical suppressants must be contained at the facility. Discharges of chemical suppressants to the environment or the sanitary sewer system are **prohibited**. ***Coordination/Consultation with Water Quality POC's required.***
	Tank Program – POC: Mr. Dustin Akins @846-0226
T1	**Transformers:** ***Please forward*** the make, model, transformer ID, location/building, and oil capacity (in gallons) for each new/replacement transformer being installed ***to Tank Program POC***.
T2	**Tanks – Above Ground Tanks (ASTs), Underground Tanks (USTs) and Generators:** ***Please forward*** the make, model, ID number, location/building, and storage capacity (in gallons) for all new and/or replacement oil storage tanks (including POLs, grease, fuels and generators) over 55 gals to ***Tank Program POC.*** All units over 55 gals must have secondary containment in case of spills/leaks. All USTs and tanks over 1,320 gals must be registered with the state.
	Natural Resources Program – POC: Mr. Dustin Akins @ 846-0226
NR 1	**Demolition of Buildings/Structures**: ***Contact Natural Resource POC*** to schedule a survey for bats, snakes, and nesting birds prior to demolition.

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	Natural Resources Program – POC: Mr. Dustin Akins @ 846-0226
NR 2	Removal/Trimming of Tree(s): ***Contact Natural Resource POC*** to schedule a survey for bird nests prior to removal/trimming of tree(s).
NR 3	Outdoor Activities (Including Exterior Building/Structure Renovations): ***Contact Natural Resource POC*** to schedule a survey for bird nests/animal issues prior to beginning work.
NR 4	Replacement of Existing or Installation of New Power Poles: Poles may need to be retrofitted to prevent bird electrocution. ***Contact Natural Resource Program POC*** to have the poles evaluated.
NR 5	Trenching: Potential exists for reptiles/amphibians/small mammals dropping into trenching projects and becoming trapped. Trenches require ramps at no more than 45 degrees so that trapped animals may exit the trench. ***Contact Natural Resource Program POC*** with questions.
	Cultural Resources Program – POC: Mr. Dustin Akins @ 846-0226
CR 1	Building/Structure is Historic. ***Please contact Cultural Resource POC before doing any work.***
CR 2	Impacts to Cultural Sites are possible. ***Please contact Cultural Resource POC before doing any work.***
CR 3	Inadvertent Discovery of Buried Cultural Resources or Native American Human Remains and Objects: If cultural resources are encountered inadvertently during an undertaking, work in the immediate vicinity shall be halted, the immediate vicinity of the resources shall be secured, and the Cultural Resource Program POC, shall be notified. The following procedures shall be followed: • An in situ evaluation of the resources shall be made by a qualified archaeologist. Based on recommendations from the archaeologist, decisions regarding the treatment of the resources shall be made in consultation with the Cultural Resources Manager (CRM) and the State Historic Preservation Officer (SHPO). • If the resources cannot be evaluated without further archaeological or historic work, the CRM shall be notified and a data recovery program or historic research shall be prepared in consultation with the SHPO. • Based on the results of the data recovery program or historic research, the resources shall be evaluated for eligibility to the National Register in consultation with the CRM and the New Mexico SHPO.
	MISCELLANEOUS
M1	Ground Disturbance: AF Form 103 required.
M2	Project Requires Siting: Contact Base Siting Office at 853-2811.
M3	Tree Removal: All trees should be taken to the Kirtland AFB Landfill for mulching. Personal use is not allowed. Please remove stumps and ensure trunks are no longer than 5 feet and/or 30 inches in diameter. ***Coordination with Landfill Personnel required – Please call 846-5994 for further guidance.***
M4	Disposal of Construction &Demolition (C&D) Waste at Kirtland C&D Landfill: In order to gain access to the site, contractors must obtain a Kirtland C&D Landfill Pass specific to each contract held for work on KAFB (multiple contracts = multiple passes). ***To obtain a Pass, contractors must bring the following items to 377 MSG/CEO Production Control in Bldg 20683***: a) copy of the valid contract issued by a US Government Contracting Agency for work to be accomplished on KAFB that requires use of the Kirtland C&D Landfill; b) original, current vehicle registration; c) valid proof of insurance; d) current Bernalillo County Emissions certificate for vehicles that are gasoline powered, newer than 1974, and gross weight of 26,000 lbs or less and e) if subcontractor, copy of a formal contract with the primary contractor OR a letter of appointment from the primary contractor on primary contractor's letterhead that states a clear performance period of subcontracted work. Contractor's signature to obtain a Pass indicates that contractor will control the waste stream such that only C&D generated on KAFB is disposed at the Kirtland C&D Landfill (no municipal solid waste, no hazardous waste, no special waste, no off-base waste).
M5	Activities on DOE Permitted Property: DOE is responsible for adhering to all environmental laws and obtaining all applicable permits prior to commencing work. This includes conducting biological and cultural surveys as applicable. ***Please contact the DOE Environmental Office for further guidance.***
M6	Environmental Management System (EMS) Awareness: Kirtland AFB has a conforming Environmental Management System. All personnel, to include contractors, need to be aware of the Environmental Policy Statement found on the Kirtland AFB public website - http://www.kirtland.af.mil/shared/media/document/AFD-140123-056.pdf. Contract work shall be consistent with the relevant policy and objectives identified in the Kirtland AFB EMS applicable to the contract. The Contractor shall ensure that employees are aware of environmental impacts and will mitigate those impacts by practicing pollution prevention techniques. ***Please contact the Kirtland AFB EMS Program Manager, Ms. Lori Crump @ 846-8781, with any questions.***
M7	If your project requires the use of any radio frequency devices, ***Contact the Spectrum Management Office at 853-3769/7426 or via e-mail at 377ABW.SMO@us.af.mil.***

Note: Listed requirements are subject to change for compliance with statutory/regulatory changes.

effective: 1 April 2014
created for Kirtland AFB
by Martha E. Garcia

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB
Sent: Tuesday, June 10, 2014 7:02 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: joseph.scott.3@us.af.mil

No comments.

v/r,

TSgt Scott

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

FY1406-002 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-002.pdf> Bulk Fuels - Remove contaminated dirt.

FY1406-003 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Sent: Tuesday, June 10, 2014 12:34 PM
To: 377 MSG/CEC Digging Permits Mail
Cc: STACEY, MICHAEL S SrA USAF AFMC 377 MSG/CED
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: john.johnson.67@us.af.mil

EOD has no concerns.

V/r,

SSgt John Johnson

Kirtland AFB EOD

DSN: 246-2229

COMM: (505) 846-2229

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR

USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO
Sent: Tuesday, June 10, 2014 10:35 AM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Dig Permits FY1406-002 is clear.

Dig permit FY1406-003 is clear. Russell Ridley Mike Ellis 377CS

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT,

BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP
Sent: Monday, June 09, 2014 2:58 PM
To: 377 MSG/CEC Digging Permits Mail
Cc: WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***

SFS, approves

From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

FY1406-002 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-002.pdf> Bulk Fuels - Remove contaminated dirt.

FY1406-003 <file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF
Sent: Monday, June 09, 2014 3:42 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: juan.salas.2@us.af.mil

Dig Permits FY1406-002 and FY1406-003 are approved.

JUAN E. SALAS, GS-11, DAF
Assistant Chief Fire Prevention
(505) 853-6699

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED

Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

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FY1406-002
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FY1406-003
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Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

Fax: (505) 846-7931

HILL, KELLI S CTR USAF AFMC 377 MSG/CENME

From: 377 ABW/SEW Administrative Mailbox
Sent: Monday, June 09, 2014 3:06 PM
To: 377 MSG/CEC Digging Permits Mail
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Signed By: tracy.withrow.1@us.af.mil

SEW does not have any issues with permits FY1406-002 and 003.

V/r

Tracy L. Withrow
Weapons Safety Specialist
2000 Wyoming Blvd SE
Bldg 20604 Rm D-10
Comm 505-853-4711
DSN 263-4711

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

Hello all,

Please review and coordinate the following permits. Please note these are high visibility and immediate coordination is required per CE.

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FY1406-003
<file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

SEG

GOODWIN, CHRISTINE M CTR USAF AFMC 377 MSG/CEMND

From: PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG
Sent: Wednesday, June 11, 2014 8:28 AM
To: 377 MSG/CEC Digging Permits Mail
Cc: CRUMP, RALPH W GS-12 USAF AFMC 377 ABW/SEG; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG
Subject: RE: Dig Permits FY1406-002 and FY1406-003 ***HTML***
Attachments: AFI 91-203 - digging permit references.docx
Signed By: richard.peterson.3@us.af.mil

Importance: High

Both Dig permits FY1406-002 and FY1406-003 are approved by Ground Safety

See guidance below

If referring to AF safety guidance; see attachment above on AFI 91-203 regarding
trenching operations.

If referencing OSHA see:

Refer to OSHA revised Subpart P, Excavations, of 29 CFR 1926.650, 29 CFR 1926.651, and 29 CFR 1926.652

Follow the most strict guidance.

Also ensure supervision & workers comply with applicable contract/company policy or any OI/ TOs regarding their shop/company guidance for safe operations especially excavation, shoring & trenching work.

Note: A competent person will examine the excavation soil to determine the need for a shoring system, sloping and benching system or some other equivalent means. A registered professional engineer shall be consulted in areas required by 29 CFR 1926, Subpart P - Excavations.

-----Original Message-----
From: 377 MSG/CEC Digging Permits Mail
Sent: Monday, June 09, 2014 2:48 PM
To: 377 ABW/SEG Administrative Mailbox; 377 ABW/SEW Administrative Mailbox; 377 AMDS/SGPB Administrative Mailbox; 377 MSG/CED Administrative Mailbox; 377 SFS/SFOLR Resources/Crime; ANAYA, ABEL V CTR USAF AFMC 377 MSG/CEOHG; BARE, MICHELLE P CTR USAF AFMC 377 MSG/CEIE; BARNES, ANTOINE J CTR USAF AFMC 377 MSG/CEOIP; BAROS, RICHARD A JR CTR USAF AFMC 377 MSG/CEMQ; BRANDT, MICHAEL J CTR USAF AFMC 377 MSG/CEMND; CARMONA, GERARDO GS-11 USAF AFMC 377 MSG/SCXP; CASHWELL, GRADY K CTR USAF AFMC 377 MSG/CEMQ; CLARKE, JASON P SrA

USAF AFMC 377 AMDS/SGPB; DALZELL, MARK A WS-09 USAF 377 MSG 377 MSG/CEOIW; DEBLASSIE, RON S CTR USAF AFMC 377 MSG/CEMAC; ELLIS, MICHAEL E CTR USAF AFMC 377 MSG/SCMO; GARCIA, MARTHA E GS-11 USAF AFMC 377 MSG/CEIE; HANECKOW, VALERIE R GS-11 USAF AFMC 377 SFS/S3RP; JAEGER, PETER K CTR USAF AFMC 377 MSG/CEMAC; JOHNSON, ARTHUR R CTR USAF AFMC 377 MSG/CEOHP; LAYMAN, JON K GS-11 USAF AFMC 377 ABW/SEG; MENDOZA, DAVID P CTR USAF 377 MSG 377 MSG/SCMO; MILLER, JOHN A SSgt USAF AFMC 377 AMDS/SGPB; MOYA, RICHARD N CTR USAF AFMC 377 MSG/CEOHS; PACHECO, LEROY CTR USAF AFMC 377 MSG/CEOFA; PARK, GARY J CTR USAF AFMC 377 MSG/CEOF; PEREZ, ARTURO CTR USAF AFMC 377 MSG/CEMAC; PETERSON, RICHARD W GS-11 USAF AFMC 377 ABW/SEG; RIDLEY, RUSSELL D CTR USAF AFMC 377 MSG/SCMO; ROGERS, CHRISTIAN R SSgt USAF AFMC 377 AMDS/SGPB; ROMERO, DANIEL WG-10 USAF AFMC 377 MSG/CEOID; SALAS, JUAN E GS-11 USAF AFMC 377 MSG/CEF; SANTIAGO, JOSE A GS-08 USAF AFMC 377 MSG/CEFT; SCOTT, JOSEPH L TSgt USAF 377 AMDS 377 AMDS/SGPB; SHARP, WAYNE T MSgt USAF AFMC 377 MDG/CCF; SHEETS, TED L GS-09 USAF 377 MSG 377 MSG/CEOE; SISNEROS, MARK E CTR USAF AFMC 377 MSG/CEMQ; SMITH, CHRISTY L CTR USAF AFMC 377 MSG/CENMP; STONE, KRISTA L GS-08 USAF AFMC 377 MSG/CEFT; SYBERT, BENJAMIN A TSgt USAF AFMC 377 AMDS/SGPB; TOKATCH, MARTIN A JR WS-10 USAF AFMC 377 MSG/CEOIE; VARELA, JAYSON W WG-07 USAF AFMC 377 MSG/CEOIW; WATERS, MONTE R GS-09 USAF AFMC 377 SFS/S5C; WITHROW, TRACY L GS-11 USAF 377 ABW 377 ABW/SEW; CURVEY, MATTHEW A SSgt USAF AFMC 377 MSG/CED; JOHNSON, JOHN A SSgt USAF AFMC 377 MSG/CED
Subject: Dig Permits FY1406-002 and FY1406-003 ***HTML***

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<file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-002.pdf> Bulk Fuels - Remove contaminated dirt.

FY1406-003
<file:///\\kafbdfs00cd\kirtlanddfs\377MSG\CE_ORG_DATA\CE\Dig%20Permit%20File\FY1406-003.pdf> Bulk Fuels - Remove contaminated dirt.

Thanks.

//Signed//

Christine M. Goodwin, Drafter

Chenega Integrated Management Systems (CIMS)

Office: (505) 846-9091

SEG

7.2.2.4. Grounds. All grounds adjacent to work areas shall be kept free of hazardous materials, trash, weeds and unguarded pits, openings or obstacles.

7.2.2.5. Construction. All construction work shall be clearly identified by signs that can be read from at least 50 feet, in addition to barriers marked with night reflective materials. Illumination or warning flashers shall also be used after dark.

7.2.1.6.2. Floor Opening Cover. A cover shall be used for less frequently used openings where traffic across the opening prevents the use of fixed railings, such as openings located in aisle spaces. In addition, covers or guards shall be used to protect people from the hazards of open pits, tanks, vats, ditches, etc.

25.1.13. Simple yet dangerous work, such as excavation, earth and rock removal, may result in cave-ins, causing serious injuries or death by suffocation or crushing. Additional hazards from buried pipes or lines may also be encountered when excavating around utilities.

25.4.5. Walking-Working Surfaces. CE workers are frequently victims of falls at work sites inside and outside the shop. Walking and working surfaces often include a floor opening or platform through which persons may fall, such as a hatchway, stair or ladder opening, pit or large manhole. Elevated working spaces above the surrounding floor or ground, such as a balcony or platform for the operation of machinery and equipment, may also be encountered by civil engineering personnel. Supervisors will ensure fall protection procedures or systems are available and used by workers where the potential of a fall from a height of four (4) feet or more exists. Refer to **Chapter 7, Chapter 13** and 29 CFR 1910.23, *Guarding Floor and Wall Openings and Holes*, for additional guidance.

25.8. Shoring and Trenching. The walls and faces of excavations and trenches over five (5) feet in depth, where workers may be exposed to danger of a cave-in, shall be guarded by a shoring system, sloping and benching system or some other equivalent means consistent with 29 CFR 1926, Subpart P – Excavations. Trenches less than five (5) feet deep with hazardous soil conditions, shall also be effectively protected. Refer to 29 CFR 1926, *Subpart P - Excavations:* 1926.650, *Scope, Application and Definitions Applicable to Subpart P,* 1926.651, *Specific Excavation Requirements,* 1926.652, *Requirements for Protective Systems,* for additional guidance. **Note:** A competent person will examine the excavation soil to determine the need for a shoring system, sloping and benching system or some other equivalent means. A registered professional engineer shall be consulted in areas required by 29 CFR 1926, Subpart P – Excavations.

25.8.1. Appropriate trench boxes or shields may be used instead of shoring or sloping.

25.8.2. Tools, equipment and excavated material shall be kept two (2) feet or more from the lip of the trench. Where workers are required to be in or work in trenches 4-feet deep or more, an adequate means of exit such as ladders or steps shall be provided (within 25 feet of travel) and used.

25.8.3. Trenches and excavations over five (5) feet deep or more shall be inspected daily by the supervisor in charge to ensure there are adequate slopes, shoring, benching and bracing, and no evidence of possible slides or cave-ins. A new inspection is required whenever supervision on the site changes and the new supervisor will document and sign the inspection document. More frequent inspections may be necessary as work progresses or after inclement weather conditions, such as rain, or where loose compacted or unstable materials are present. Inspection(s) shall be documented and signed by the supervisor and a copy of the inspection document(s) shall be maintained on the site at all times.

25.8.4. Workers will take extra care when hand excavating in close proximity to utilities to preclude interruption of services, equipment damage or injury to workers, which can result from breaking electrical, gas or steam lines. Simple pre-planning, shoring and bracing, and hand digging around known utilities pipes and lines, should prevent most mishaps associated with excavations. AF Form 103, *Base Civil Engineering Work Clearance Request,* shall be coordinated and approved before any digging commences.

25.8.5. If a hazardous atmosphere exists or there is a potential for one to exist in the excavation (i.e., welding in/or near the excavations, other hazardous work activities, excavations in landfill areas or excavations in areas where hazardous substances are stored nearby), the atmospheres in the excavation shall be tested before workers enter excavations greater than four (4) feet in depth. The competent person shall consult with BE for proper atmospheric evaluation of the excavation.

25.8.6. Where the competent person finds evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres or other hazardous conditions, exposed workers shall be removed from the hazardous area until the necessary precautions have been taken to ensure their safety. The proper precautions shall be taken by the competent person which may include the following:

25.8.6.1. Cave-in. Fix the sloping and benching system or provide a shoring system. If cave-in is the result of water accumulation, then remove water and possibly use a shoring system if the competent person believes it is necessary.

25.8.6.2. Failure of protective system. If there is evidence of failure to the protective system, stop the work and replace the protective system.

25.8.6.3. Hazardous atmosphere. If the competent person suspects a potential hazardous atmosphere or there is one in the trench, workers shall be removed from the trench and testing shall be accomplished. Refer to paragraph **25.8.5** for additional guidance.

25.8.6.4. Water accumulation. Workers shall not work in excavations in which there is accumulated water, or in excavations in which water is accumulating, unless adequate precautions have been taken to protect workers against the hazards posed by water accumulation. The precautions necessary vary with each situation, but could include special support or shield systems to protect from cave-ins, water removal to control accumulating water or use of a safety harness and lifeline. **Note:** An attempt to remove the accumulating water shall be accomplished first.

25.9. Barricades and Traffic Signs. Whenever a common area is disturbed by CE maintenance, repair or construction operations and presents a hazard to personnel in the area (residents, other workers or passers-by), care shall be taken to warn these personnel and other engineering workers of the potential hazard.

25.9.1. Appropriate barriers shall be erected around excavations, open manholes, open electrical panels, etc., whenever they will be left unattended.

25.9.2. Appropriate warning signs and steady or flashing warning lights for periods of reduced visibility (i.e., nighttime operations, inclement weather, fog) shall be posted a sufficient distance from the hazard to give ample advance warning to approaching pedestrian or vehicular traffic. For vehicular traffic, comply with Department of Transportation's (DOT) *Manual on Uniform Traffic Control Devices (MUTCD).*

ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT - AIR QUALITY PROGRAM
PHYSICAL ADDRESS - ONE CIVIC PLAZA NW, 3RD FLOOR, ROOM 3047, ALBUQUERQUE, NEW MEXICO 87102
MAILING ADDRESS – P.O. BOX 1293, ALBUQUERQUE, NEW MEXICO 87103
(505) 768 - 1972 (VOICE) 1-800-659-8331 (NEW MEXICO RELAY) (505) 768 - 1977 (FAX)

APPLICATION FOR A **FUGITIVE DUST CONTROL CONSTRUCTION PERMIT** IN BERNALILLO COUNTY
ALBUQUERQUE - BERNALILLO COUNTY AIR QUALITY CONTROL BOARD REGULATION 20.11.20 NMAC
FUGITIVE DUST CONTROL CONSTRUCTION PERMIT (PERMIT) FOR SURFACE DISTURBANCE AND DEMOLITION

DIVISION RECEIPT STAMP BELOW THIS LINE

EFFECTIVE DATE OF THIS APPLICATION FORM: 2/20/14

SUBMITTAL DATE/TIME 5/12/14 2:49.
RECEIVED BY Melissa Padilla
PERMIT # 6621-C

PART A. - PROJECT INFORMATION AND GENERAL ACTIVITIES (PRINT OR TYPE)

A1. PROJECT NAME Kirtland Air Force Base Bulk Fuels Facility Spill

A2. PROJECT LOCATION 200 ft South of Ridgecrest Ave SE, and 700 ft east of San Pedro Blvd SE

SUBMIT AS AN ATTACHMENT TO THIS APPLICATION, AN 8 ½" X 11" OR LARGER SITE MAP OR PLAT OF PROJECT LOCATION

A3. PROJECT STREET ADDRESS (if available) 2500 Ridgecrest Ave SE

A4. MAJOR CROSS STREETS OR INTERSECTION NEARBY Ridgecrest Ave SE and San Pedro Blvd SE

RECEIVED
ENVIRONMENTAL HEALTH
14 MAY 12 PM 2:49

A5. SCOPE OF PROJECT (check all that apply): ☐NEW BUILDING(s) CONSTRUCTION ☐SUBDIVISION DEVELOPMENT ☐UTILITY IMPROVEMENTS ☐STRUCTURE DEMOLITION/RENOVATION ☐ROADWAY DEVELOPMENT ☒OTHER (please describe) Well Installation

A6. ACTIVE OPERATIONS (check all that apply): ☒SURFACE DISTURBANCE ☐BULK MATERIAL HAULING OR HANDLING ☐UNPAVED ROADS ☐PAVED ROADS ☐UTILITY REMOVAL/INSTALLATIONS ☐STRUCTURE DEMOLITION/RENOVATION ☐MILLING/GRINDING/CUTTING OF SURFACES ☒OTHER (please describe) well installation

A7. TOTAL AREA TO BE DISTURBED (acres or square feet) ½ acres Or _____ ft²

A8. WILL THERE BE BUILDING DEMOLITION INVOLVED IN THIS PROJECT ? ____YES NO_X_ IF YES, TOTAL CUBIC FEET _____ ft³

A FUGITIVE DUST CONTROL CONSTRUCTION PERMIT (PERMIT) APPLICATION IS REQUIRED FOR A BUILDING DEMOLITION PROJECT OF OVER 75,000 FT³ AND MUST BE RECEIVED BY THE DEPARTMENT 10 BUSINESS DAYS (MON. - FRI. EXCEPT HOLIDAYS) BEFORE THE ANTICIPATED PROJECT START DATE. ASBESTOS NOTIFICATION FOR DEMOLITION/RENOVATION OF ANY COMMERCIAL BUILDING, RESIDENTIAL BUILDING OF 5 OR MORE DWELLINGS, OR RESIDENTIAL STRUCTURE TO BE DEMOLISHED TO BUILD A NON-RESIDENTIAL STRUCTURE MUST BE RECEIVED BY THE DEPARTMENT, USING A SEPARATE FORM, 10 WORKING DAYS (CALENDAR DAYS) BEFORE THE ANTICIPATED PROJECT START DATE. BUILDING DEMOLITIONS IN BERNALILLO COUNTY REQUIRE DEPARTMENT SIGNATURES FOR DUST CONTROL AND ASBESTOS NOTIFICATION BEFORE A DEMOLITION PERMIT WILL BE ISSUED BY THE CITY OR COUNTY.

A9. A PERMIT APPLICATION, FOR TOTAL AREA TO BE DISTURBED OF ¾ ACRE UP TO 25 ACRES, MUST BE RECEIVED BY THE AIR QUALITY PROGRAM 10 BUSINESS DAYS BEFORE THE ANTICIPATED PROJECT START DATE. A PERMIT APPLICATION, FOR TOTAL AREA TO BE DISTURBED OF MORE THAN 25 ACRES, MUST BE RECEIVED BY THE AIR QUALITY PROGRAM 20 BUSINESS DAYS BEFORE THE ANTICIPATED PROJECT START DATE. **ANTICIPATED PROJECT START DATE IS:** 5/23/2014

A10. AN APPROVED PERMIT SHALL BE VALID FOR 1 YEAR FROM THE DATE OF APPROVAL BY THE DEPARTMENT OR THE ANTICIPATED PROJECT COMPLETION DATE, WHICHEVER IS LONGER, BUT NO MORE THAN 5 YEARS. IF THE SCOPE OF PROJECT, ACTIVE OPERATIONS, EXPIRATION DATE, TOTAL AREA TO BE DISTURBED, OR CONTROL MEASURE(S) CHANGE IN ANY MANNER THAT ARE DETERMINED BY THE DEPARTMENT TO REQUIRE ADDITIONAL CONDITIONS, THEN A NEW PERMIT SHALL BE REQUIRED. A PERMIT MAY BE RENEWED IF THE DEPARTMENT RECEIVES A WRITTEN REQUEST FROM THE PERMITTEE 10 BUSINESS DAYS PRIOR TO EXPIRATION DATE.

ANTICIPATED PROJECT COMPLETION DATE IS: ~~5/21/2015~~ 8/18/14 RJH

ENTERED

Department Review by _____ **Permittee's Initials Required Here** RJH

PART A. - PROJECT INFORMATION AND GENERAL ACTIVITIES

A11. (CHECK ONE BOX) ACTIVE OPERATIONS WILL BE THE TOTAL AREA TO BE DISTURBED ☒, OR, ACTIVE OPERATIONS WILL BE PHASED ☐

A12. IF PHASING OF ACTIVE OPERATIONS (Explain Phasing Plan and include Total Disturbed Area, in acres, at any given time) _____

_____

A13. IS A SITE DRAINAGE PLAN REQUIRED FOR THIS PROJECT? YES_____ NO__X____

A14. IF YES TO **A13** ABOVE, IS DRAINAGE PLAN APPROVED AND AVAILABLE UPON REQUEST BY THE DEPARTMENT? YES_____ NO_____

A15. EXPECTED VOLUME OF BULK MATERIAL (ON SITE FILL, IMPORTED FILL, BASE COARSE GRAVEL, ETC.) TO BE HANDLED DURING THE DURATION OF THIS PROJECT (in cubic yards) ~~120~~ 4120 yds^3 RAH 2310

A16. VOLUME OF BULK MATERIAL TO BE IMPORTED TO THIS PROJECT SITE ~~60~~ yds^3

A17. ADDRESS OF LOCATION(S) FROM WHICH BULK MATERIAL WILL BE IMPORTED TO THIS PROJECT SITE__

__LaFarge North America 1500 N Renaissance STe B Albuquerque

A18. DO THE BERNALILLO CNTY. LOCATIONS, PROVIDING BULK MATERIAL TO THIS PROJECT, HAVE PERMITS?
YES __X__ NO ____ UNKNOWN___

A19. VOLUME OF BULK MATERIAL TO BE EXPORTED FROM THIS PROJECT SITE ~~60~~ 1700 RAH yds^3

A20. ADDRESS OF LOCATION(S) IN BERNALILLO CNTY. THAT WILL RECEIVE BULK MATERIAL EXPORTED FROM THIS PROJECT SITE__ _____

_____Kirtland AFB Landfill / VALENCIA REGIONAL LANDFILL RM

A21. DO THE BERNALILLO CNTY. LOCATIONS, RECEIVING BULK MATERIAL FROM THIS PROJECT, HAVE PERMITS?
YES _X_ NO _____ UNKNOWN_____

A22. WILL STOCKPILES BE CONSTRUCTED ON THIS SITE? YES RM NO ~~X~~

A23. IF YES TO **A22** ABOVE, GIVE GENERAL DIMENSIONS OF THE STOCKPILE(S) IN FEET 50 LENGTH 15 RAH WIDTH 12 HEIGHT

PART B. - REASONABLY AVAILABLE CONTROL MEASURES THE "PERMITTEE" SHALL INCLUDE IN THE PERMIT APPLICATION ONE OR MORE OF THE APPLICABLE REASONABLY AVAILABLE CONTROL MEASURES GIVEN IN PART B.1 – B.13 OR ONE OR MORE OTHER (ALTERNATIVE) FUGITIVE DUST CONTROL MEASURES, INCLUDING MEASURES TAKEN TO COMPLY WITH ANY OTHER STATUTE OR REGULATION THAT WOULD ALSO EFFECTIVELY CONTROL FUGITIVE DUST DURING ACTIVE AND INACTIVE OPERATIONS.

ATTENTION: AT MINIMUM, ALL PROJECTS REQUIRING A PERMIT SHALL: 1) UTILIZE PAVED OR GRAVEL ENTRY/EXIT APRONS, STEEL GRATES OR OTHER DEVICES CAPABLE OF REMOVING MUD AND BULK MATERIAL FROM VEHICLE TRAFFIC TIRES; AND 2) ERECT A PROPERLY MAINTAINED FABRIC FENCING MATERIAL AROUND THE PERIMETER OF THE DISTURBED SURFACE AREA WITH OPENINGS NO WIDER THAN NECESSARY TO ALLOW VEHICLES TO ENTER OR EXIT THE AREA.

IF THE "PERMITTEE" CHOOSES TO SUBMIT, AS AN ATTACHMENT TO THIS APPLICATION, AN ALTERNATIVE FUGITIVE DUST CONTROL PLAN (PLAN) IN LIEU OF THE CONTROL MEASURES GIVEN IN PART B.1 – B.13, THE ALTERNATIVE PLAN (SUCH AS A STORM WATER POLLUTION PREVENTION PLAN) MUST INCLUDE DETAILED INFORMATION THAT ADDRESSES: 1) THE STEADY ONGOING REASONABLY AVAILABLE CONTROL MEASURES TO MITIGATE THE RELEASE OF FUGITIVE DUST FROM ACTIVE AND INACTIVE DISTURBED SURFACE AREAS; 2) FUGITIVE DUST CONTROL CONTINGENCY MEASURES THAT WILL BE USED; AND 3) ACTION(S) TO BE TAKEN TO MITIGATE PROPERTY DAMAGE (SEE PART C OF THIS APPLICATION). IF SUBMITTING AN ALTERNATIVE PLAN YOU STILL MUST COMPLETE AND INITIAL PARTS A, D, E, F, G, H, AND I (IF UTILIZED) OF THIS APPLICATION.

B1. UNPAVED ROADWAYS [check applicable box(es)]:

a. ☐ paving with recycled asphalt, maintained asphalt millings, asphaltic concrete, concrete, or petroleum products legal for such use;

b. ☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

c. ☒ using wet suppression;

d. ☒ using traffic controls, including decreased speed limits with appropriate enforcement; other traffic calming methods, vehicle access restrictions and controls; road closures or barricades; and off-road vehicle access controls and closures;

e. ☒ other (alternative) __Entry from paved road will have rock entry

Department Review by_____ **Permittee's Initials Required Here** RAH

B2. PAVED ROADWAYS [check applicable box(es)]:

a.☐ cleaning up spillage and track out as necessary to prevent particulates from being pulverized and entrained into the atmosphere;

b.☐ using on-site wheel washes;

c.☐ performing regularly scheduled vacuum street cleaning or wet sweeping with a sweeper certified by the manufacturer to be efficient at removing particulate matter having an aerodynamic diameter of less than 10 microns (i.e. PM_{10});

d.☐ other (alternative) _____

B3. TRUCKS HAULING BULK MATERIALS ON PUBLIC AND PRIVATE ROADWAYS [check applicable box(es)]:

a.☒ using properly secured tarps or cargo covering that covers the entire surface area of the load;

b.☒ preventing leakage from the truck bed, sideboards, tailgate, or bottom dump gate;

c.☐ using wet suppression to increase moisture content of the bulk materials being hauled;

d.☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

e.☐ maintaining a minimum of 6 inches of freeboard below the rim of the truck bed. Freeboard means the vertical distance from the highest portion of the load abutting the bed and the lowest part of the top rim of the truck bed abutting the load;

f.☐ other (alternative) _____

B4. ACTIVE OPERATIONS IN CONSTRUCTION AREAS AND OTHER SURFACE DISTURBANCES [check applicable box(es)]:

☐ **SHORT TERM** control measures shall include (check this box first if utilizing short term measures listed below):

a.☒ wet suppression;

b.☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

c.☒ temporary upwind windbreaks, including fabric fences with the top at least 4 feet above grade, and with the bottom of the fence sufficiently anchored to the ground to prevent material from blowing underneath the fence; all windbreaks and fabric fences shall be maintained in an upright and functional condition at all times until no longer needed to prevent or abate fugitive dust; all accumulated material on the windward side of the windbreak shall be periodically removed to prevent failure of the windbreak;

d.☒ watering the site at the end of each workday sufficient to stabilize the work area;

e.☐ applying dust suppressants in amounts, frequency and rates recommended by the manufacturer on the worksite at the end of each work week if no active operations are going to take place over the weekend or if active operations stop for more than two consecutive days;

f.☐ starting construction at the location that is upwind from the prevailing wind direction and stabilizing disturbed areas before disturbing additional areas;

g.☐ clean up and removal of track-out material;

h.☐ other (alternative) Post Sheeting MH

B5. ACTIVE OPERATIONS IN CONSTRUCTION AREAS AND OTHER SURFACE DISTURBANCES [check applicable box(es)]:

☐ **LONG TERM** control measures shall include (check this box first if utilizing long term measures listed below):

a.☐ site stabilization using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

b.☐ reseeding using guidelines in 20.11.20.24 NMAC – NATIVE GRASS SEEDING AND MULCH SPECIFICATIONS;

c.☐ xeriscaping;

d.☒ installing parallel rows of fabric fencing or other windbreaks set perpendicular to the prevailing wind direction either onsite or on nearby property with the permission of the nearby property owner;

e.☒ surfacing with gravel or other mulch material of a size and density sufficient to prevent surface material from becoming airborne

f.☐ mulching and crimping of straw or hay using guidelines in Section 20.11.20.24 NMAC;

g.☐ installing permanent perimeter and interior walls;

h.☐ conventional landscaping techniques;

i.☐ clean up and removal of track-out material;

j.☐ other (alternative) __Silt fence will be installed on perimeter of excavation

B6. BULK MATERIAL HANDLING [check applicable box(es)]:

a.☐ using spray bars;

b.☐ applying wetting agents (surfactants) to bulk material;

c.☑ using wet suppression through manual or mechanical application;

d.☐ adding dust suppressants to bulk materials applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

RH

e.☑ reducing process speeds;

f.☑ reducing drop heights;

g.☐ other (alternative) _____

B7. INDUSTRIAL SITES [check applicable box(es)]:

a.☐ paving roadways and parking area with recycled asphalt, routinely-maintained asphalt millings, asphaltic concrete, concrete, or petroleum products legal for such use;

b.☐ performing regularly scheduled vacuum street cleaning or wet sweeping;

c.☒ regularly using wet suppression on unpaved areas;

d.☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; SUBMIT MANUFACTURER'S INFORMATION AS AN ATTACHMENT TO THIS APPLICATION

e.☐ installing wind breaks;

f.☐ installing enclosures;

g.☐ installing on-site anemometers to measure wind speed; the anemometer should trigger a suitable warning mechanism such as a strobe light or audible alarm (that will not violate any applicable noise ordinance) to notify on-site personnel of high winds;

h ☒ increasing wet suppression applications before and during high wind conditions;

i.☐ other (alternative) _____

B8. DEMOLITION/RENOVATION ACTIVITIES (NON-ASBESTOS CONTAINING MATERIALS PRESENT)[check applicable box(es)]:

a.☐ using constant wet suppression on the debris piles during demolition;

b.☐ using water or dust suppressants on the debris pile, applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

c.☐ using enclosures;

d.☐ using curtains or shrouds;

e.☐ using negative pressure dust collectors;

f.☐ other (alternative) _____

B9. MILLING, GRINDING OR CUTTING OF PAVED OR CONCRETE SURFACES [check applicable box(es)]:

a.☐ constantly using wet suppression;

b.☐ ongoing clean up of milled, ground or cut material by using wet sweeping;

c.☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

d.☐ using enclosures;

e.☐ using curtains or shrouds;

f.☐ other (alternative) _____

B10. PRESSURE BLASTING OPERATIONS [check applicable box(es)]:

a.☐ using non-friable abrasive material;

b.☐ using curtains, enclosures or shrouds;

c.☐ using negative pressure dust collectors;

d.☐ using constant wet suppression;

e.☐ maintaining ongoing clean up of abrasive material; f.☐ other (alternative) _____

B11. STOCKPILE FORMATION Stockpiles shall be no higher than 15 feet above the existing natural or man-made grade that abuts

the stockpile, unless otherwise approved in advance and in writing by the department [check applicable box(es)]:

Active Stockpiles:

a.☑ applying wet suppression on a regular basis; RJH

b.☐ utilizing windbreaks (fabric fencing or other materials);

c.☑ reducing vehicle speeds or using other traffic calming measures (for example – sculpted piles for less abrasive wind effect);

d.☑ restricting access to stockpile areas during non-work hours; e.☐ other (alternative) POLY Sheets

Inactive Stockpiles:

a.☐ maintaining a stable outer crust over stockpile area;

b.☐ using dust suppressants applied in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer; submit manufacturer's information as an attachment to this application

c.☑ restricting access to stockpile areas;

d.☐ utilizing windbreaks (fabric fencing or other materials); e.☐ other (alternative) POLY Sheeting

B12. SPRAY PAINTING AND OTHER COATINGS [check applicable box(es)]:

a.☐ using enclosures that comply with applicable fire codes;

b.☐ using curtains, enclosures or shrouds; c.☐ other (alternative) _____

B13. HIGH WIND CONTINGENCY MEASURES [check applicable box(es)]:

IT IS REQUIRED DURING A **HIGH WIND EVENT** THAT ALL FUGITIVE DUST SOURCES CEASE ALL ACTIVE OPERATIONS THAT ARE CAPABLE OF PRODUCING FUGITIVE DUST, CONTINUE TO USE REASONABLY AVAILABLE CONTROL MEASURES, AND IMPLEMENT HIGH WIND CONTINGENCY MEASURES. A **HIGH WIND EVENT** IS A CONDITION ANNOUNCED BY THE DEPARTMENT OF WIND SPEEDS OF APPROXIMATELY 30 MILES PER HOUR OR GREATER THAT, WHEN ACCOMPANIED BY DRY SOIL CONDITIONS, IS LIKELY TO RESULT IN WIDESPREAD REDUCED VISIBILITY DUE TO BLOWING FUGITIVE DUST AND MAY RESULT IN ELEVATED PARTICULATE LEVELS THAT MAY CONTRIBUTE TO AN EXCEEDANCE OR VIOLATION OF AMBIENT AIR QUALITY STANDARDS.

a.☐ installing and using on-site anemometers to measure wind speed; the anemometer should trigger a suitable warning mechanism such as a strobe light or audible alarm (that will not violate any applicable noise ordinance) to notify site personnel of high winds;

b.☒ using constant wet suppression;

c.☐ using dust suppressants applied in amounts and rates recommended by the manufacturer; submit manufacturer's information as an attachment to this application

d.☐ using wetting agents or surfactants on disturbed areas, bulk materials or stockpiles;

e.☑ other (alternative) POLY Sheeting

PART C. - FUGITIVE DUST CONTROL PLAN (PLAN) (PRINT OR TYPE)

THE "PERMITTEE" IS REQUIRED TO COMPLY WITH A PLAN THAT DETAILS THE FUGITIVE DUST CONTROL MEASURES THAT WILL BE USED TO MITIGATE THE RELEASE OF FUGITIVE DUST FROM ACTIVE AND INACTIVE DISTURBED SURFACE AREAS. THIS INCLUDES: STEADY ONGOING REASONABLY AVAILABLE CONTROL MEASURES, CONTINGENCY MEASURES, AND ACTION(S) THAT WILL BE TAKEN TO MITIGATE CLAIMS OF PROPERTY DAMAGE. IF YOU ARE NOT SUBMITTING AS AN ATTACHMENT TO THIS APPLICATION AN ALTERNATIVE PLAN, THEN COMPLETE PART C.1 - C.3 BELOW TO COMPLETE YOUR PLAN.

C1. Describe in detail the steady ongoing Reasonably Available Control Measures that you may have selected in Part B.1 – B.13 of this application that will be used during this project to mitigate the release of Fugitive Dust from Active Disturbed Surface Areas (any current operation capable of creating dust) AND Inactive Disturbed Surface Areas (previously disturbed areas where active operations are temporarily suspended). Examples are: Type, size and quantity of equipment that will be used for wet suppression, and frequency of use; Type and locations of fencing or walls that will be installed; Frequency of use of vacuum or wet sweeping; Temporary pavements, Seeding plan; etc.).

ACTIVE - 2000 gallon water truck used on a twice daily basis as needed during initial activity periods-thereafter as needed basis

INACTIVE - SITE SURROUNDED BY FENCING RJH

POLY Sheeting

C2. Describe in detail the additional fugitive dust control Contingency Measures that will be used during this project if the Reasonably Available Control Measures chosen in Part B.1 – B.13 and detailed in Part C.1 are determined by the department to be insufficient to provide adequate Fugitive Dust Control during Active and Inactive Operations.

Department Review by _____ **Permittee's Initials Required Here** RJH

ACTIVE - ____increase application of wate[illegible]g 2000 gallon water truck

INACTIVE - SITE SURROUNDED BY FENCING MH

C3. DESCRIBE THE ACTION(S) TO BE TAKEN TO MITIGATE CLAIMS OF PROPERTY DAMAGE BY FUGITIVE DUST GENERATED AT/FROM THIS PROJECT.

WILL RESPOND TO REASONABLE COMPLAINTS AND CLEAN UP AFFECTED AREAS MH

PART D. - HIGH WIND EVENT (PRINT OR TYPE)

A HIGH WIND EVENT IS A CONDITION ANNOUNCED BY THE DEPARTMENT OF WIND SPEEDS OF APPROXIMATELY 30 MILES PER HOUR OR GREATER THAT, WHEN ACCOMPANIED BY DRY SOIL CONDITIONS, IS LIKELY TO RESULT IN WIDESPREAD REDUCED VISIBILITY DUE TO BLOWING FUGITIVE DUST AND MAY RESULT IN ELEVATED PARTICULATE LEVELS THAT MAY CONTRIBUTE TO AN EXCEEDANCE OR VIOLATION OF AMBIENT AIR QUALITY STANDARDS. ALL FUGITIVE DUST SOURCES SHALL CEASE ALL ACTIVE OPERATIONS THAT ARE CAPABLE OF PRODUCING FUGITIVE DUST, CONTINUE TO USE REASONABLY AVAILABLE CONTROL MEASURES, AND IMPLEMENT HIGH WIND CONTINGENCY MEASURES DURING A HIGH WIND EVENT.

D1. DESCRIBE IN DETAIL HOW THE HIGH WIND CONTINGENCY MEASURE(S) CHOSEN WILL BE USED DURING THIS PROJECT__ceasing activity during + 30mph winds-limited activities to non- dust producing work

PART E. - HIGH WIND AFFIRMATIVE DEFENSE

ATTENTION !!!

TO ASSERT A HIGH WIND AFFIRMATIVE DEFENSE, THE PERMITTEE AGREES TO USE ONE OF THE THREE MANDATORY CONTROL MEASURES SHOWN BELOW THROUGHOUT THE ENTIRE DURATION OF THE PERMIT, REGARDLESS OF WHETHER OR NOT A HIGH WIND EVENT EXISTS.

DO YOU WISH TO QUALIFY FOR A HIGH WIND AFFIRMATIVE DEFENSE DURING THE DURATION OF THIS PERMIT? YES____ NO__X___

IF THE ANSWER IS YES, THEN CHECK ONE OF THE REQUIRED SET OF CONTROL MEASURES SHOWN IN E1 – E3 BELOW.

E1.☐ **(A)** Using wet suppression sufficient to attain and maintain eighty percent of the optimal moisture content of the soil, as determined by a standard or modified proctor analysis performed by a certified public or private materials testing laboratory. At three equally spaced timeframes during the workday, three tests for soil moisture content shall be performed at three separate representative locations on the permitted property, which will result in a minimum of nine tests per day. Each set of three tests shall average eighty percent of the optimal moisture content of the soil and no individual test shall be less than seventy percent of the optimal moisture content. Failure of any three set sample of tests to meet these standards shall require the taking of immediate action necessary and re-testing of non-compliant areas until the standards are met; **(B)** maintain fabric fencing material around the perimeter of the disturbed surface area with openings no wider than necessary to allow vehicles to enter or exit the area (fencing shall be anchored 6 inches below the surface on the bottom edge and shall be 24 or more inches above the existing natural or manmade surface); and **(C)** during a High Wind Event ceasing all Active Operations but continuing to use all control measures.

E2.☐ **(A)** Using chemical dust suppressants, in amounts, frequency and rates recommended by the manufacturer, and maintained as recommended by the manufacturer sufficient to substantially reduce fugitive dust leaving the project area while Active Operations are idle; **(B)** maintain fabric fencing material around the perimeter of the disturbed surface area with openings no wider than necessary to allow vehicles to enter or exit the area (fencing shall be anchored 6 inches below the surface on the bottom edge and shall be 24 or more inches above the existing natural or manmade surface); and **(C)** during a High Wind Event ceasing all Active Operations but continuing to use all control measures.

E3.☐ **(A)** Submit an alternative dust control plan, for department approval, that provides fugitive dust control that is deemed equal to or better than using the measures described in options E1 or E2 above; and **(B)** during a High Wind Event ceasing all Active Operations but continuing to use all control measures.

PART F. – FEES (PRINT OR TYPE)

APPLICATION REVIEW FOR A FUGITIVE DUST CONSTRUCTION PERMIT REQUIRES A FILING & REVIEW FEE, AND AN INSPECTION FEE.

Department Review by_____ **Permittee's Initials Required Here** MH

F1. FILING & REVIEW FEE TABLE

TOTAL PROJECT ACREAGE TO BE DISTURBED	FILING & REVIEW FEE	CHECK APPROPRIATE BOX	FOR OFFICAL USE ONLY PROGRAM ELEMENT
(Demolition Only) Less than 3/4 acre, but greater than 75,000 cubic feet	$250.00		2101
¾ acre to less than 2 acres	$250.00	X	1102
2 acres to less than 5 acres	$350.00		1103
5 acres to less than 15 acres	$450.00		1104
15 acres or greater	$550.00		1105

INSPECTION FEE

MULTIPLY THE TOTAL PROJECT ACREAGE TO BE DISTURBED BY THE PER - ACRE RATE SHOWN IN THE TABLE BELOW. THE TOTAL PROJECT ACREAGE TO BE DISTURBED MUST BE EXPRESSED AS A WHOLE NUMBER. IF THE NUMBER AFTER THE DECIMAL POINT IS LESS THAN 5, THE WHOLE NUMBER REMAINS UNCHANGED. IF THE NUMBER AFTER THE DECIMAL POINT IS 5 OR GREATER, THE WHOLE NUMBER SHALL BE ROUNDED UP TO THE NEXT WHOLE NUMBER. ROUNDING OF ACRES SHALL OCCUR BEFORE THE INSPECTION FEE IS CALCULATED.

F2. FUGITIVE DUST CONTROL INSPECTION FEE TABLE (Program Element 1101)

TOTAL PROJECT ACREAGE TO BE DISTURBED (ROUNDED TO NEAREST WHOLE NUMBER)	TIMES	PER ACRE RATE (BASED ON 20.11.2.15 . C. NMAC)		INSPECTION FEE
~~1~~ 2 RMH	~~1~~ 2	$123.00	=	~~$ 123.00~~ $246.

F3. DEMOLITION INSPECTION FEE TABLE (Program Element 1197)

GREATER THAN 75,000 CUBIC FEET BUT LESS THAN 3/4 ACRE	(BASED ON 20.11.2.15. M. NMAC)	
INSPECTION FEE (if 3/4 acre or more go to F2)	=	$123.00

TOTAL PROJECT FEE – ADD THE FILING & REVIEW FEE AND THE INSPECTION FEE (F2 OR F3) ABOVE TO DETERMINE THE TOTAL PROJECT FEE.

F4. TOTAL PROJECT FEE TABLE

FILING & REVIEW FEE	PLUS	INSPECTION FEE (F2 OR F3)		TOTAL PROJECT FEE DUE
$ 250.00	+	$ 123.00 + $123.00	=	$ ~~373.00~~ $496 RMH

NOTE:

IF AN APPLICATION TO OBTAIN A PERMIT IS SUBMITTED AFTER ACTIVE OPERATIONS HAVE COMMENCED AT THE PROJECT LOCATION, A LATE FEE OF 50 PERCENT OF THE TOTAL PROJECT FEE SHALL BE ASSESSED IN ADDITION TO THE TOTAL PROJECT FEE. IN ADDITION TO THIS LATE FEE FOR APPLICATION PROCESSING AND PERMIT ISSUANCE, CIVIL PENALTY'S MAY BE ASSESSED PURSUANT TO THE NEW MEXICO AIR QUALITY CONTROL ACT, CHAPTER 74, ARTICLE 2 NEW MEXICO STATUTES ANNOTATED 1978.

USE THE CALCULATION BELOW ONLY IF YOU ARE REQUIRED TO SUBMIT A LATE FEE.

TOTAL PROJECT FEE DUE: $ .00 X 1.5 (LATE FEE FACTOR) = $ .00 TOTAL PROJECT/LATE FEE DUE

Department Review by _____ Permittee's Initials Required Here RMH

NOTE:

TOTAL PROJECT FEE DUE OR TOTAL PROJECT/LATE FEE DUE, REQUIRED TO BE PAID AT THE TIME OF APPLICATION SUBMITTAL, SHALL BE PAID BY CHECK OR MONEY ORDER PAYABLE TO: CITY OF ALBUQUERQUE, PERMITS PROGRAM (FUND 242 – ACCOUNT # 0421425). APPLICATION AND ACCOMPANYING FEE MAY BE DELIVERED BY MAIL TO THE ADDRESS THAT APPEARS AT THE TOP OF PAGE 1 OF THIS FORM OR HAND DELIVERED TO THE SAME ADDRESS (BETWEEN THE HOURS OF 8:00 AM - 4:30 PM MON. THROUGH FRI.). CALL 768-1972 IF HAND DELIVERING APPLICATION AND FEE TO INSURE THAT APPROPRIATE STAFF IS AVAILABLE TO PROCESS A RECEIPT.

NOTE:

THE PERMITTEE SHALL INSTALL AND MAINTAIN A FUGITIVE DUST CONTROL PROJECT SIGN, ISSUED OR APPROVED BY THE DEPARTMENT.

THE REMAINDER OF THIS PAGE HAS BEEN LEFT INTENTIONALLY BLANK.

PART G. – SIGNATURE AUTHORITY OF PERMITTEE

BY SIGNING BELOW, THE APPLICANT CERTIFIES THAT THE INFORMATION PROVIDED IN THIS APPLICATION FOR A PERMIT IS TRUE, ACCURATE AND COMPLETE, AND THE APPLICANT AGREES TO BE THE "PERMITTEE". THE "PERMITTEE" IS RESPONSIBLE FOR COMPLYING WITH THE

Department Review by_____ **Permittee's Initials Required Here** _____

PERMIT, PLAN, AND ALL REQUIREMENTS OF PART 20.11.20 NMAC. FAILURE TO COMPLY SHALL BE A VIOLATION OF PART 20.11.20 NMAC.

THE PERMITTEE SIGNATURE BOX MUST BE COMPLETED (COMPLETE ALL APPLICABLE INFORMATION)

CB&I FEDERAL SERVICES PRINT PERMITTEE'S BUSINESS NAME	RICHARD.HEFFERNAN@CBIFEDERALSERVICES.COM EMAIL ADDRESS OF PERMITTEE	505-262-8855 FAX NUMBER OF PERMITTEE
505-262-8800 PHONE NUMBER OF PERMITTEE	863-581-4453 CELL PHONE OF PERMITTEE	
2400 Louisiana Blvd NE Suite 300 MAILING ADDRESS OF PERMITTEE	Albuquerque / NM / 87110 CITY / STATE / ZIP CODE	
Richard Heffernan PRINT NAME OF INDIVIDUAL SIGNING FOR PERMITTEE	Construction Manager PRINT TITLE OF INDIVIDUAL SIGNING FOR PERMITTEE	
Richard J Heffernan SIGNATURE OF PERMITTEE	RJH INITIALS OF PERMITTEE	5-12-14 DATE SUBMITTED

IT IS THE RESPONSIBILITY OF THE PERMITTEE OR DESIGNATED RESPONSIBLE PERSON OR OFFICIAL TO ENSURE THAT THE PERMIT OR AMENDED PERMIT CONTAINS CURRENT CONTACT INFORMATION AND THAT A COPY IS MAINTAINED AT THE WORK SITE AND IS PROVIDED TO THE DEPARTMENT. FAILURE TO MAINTAIN AND PROVIDE UP-TO-DATE CONTACT INFORMATION SHALL BE A VIOLATION OF 20.11.20 NMAC.

PART H. – OWNER OR OPERATOR INFORMATION :

COMPLETE THE OWNER OR OPERATOR INFORMATION BELOW ONLY IF DIFFERENT THAN THE PERSON WHO HAS SIGNED AS THE PERMITTEE IN SECTION G - OR AS A RESPONSIBLE PERSON(S) IN SECTION I OF THIS APPLICATION FOR A FUGITIVE DUST CONTROL CONSTRUCTION PERMIT.

IF THE PERMITTEE FAILS TO COMPLY WITH THE PROVISIONS OF 20.11.20 NMAC – FUGITIVE DUST CONTROL, THE OWNER OR OPERATOR, IF DIFFERENT FROM A RESPONSIBLE PERSON OR THE PERMITTEE, SHALL BE RESPONSIBLE FOR COMPLYING WITH THE PERMIT AND TAKE ALL REQUIRED ACTIONS TO PREVENT A VIOLATION OF 20.11.20 NMAC – FUGITIVE DUST CONTROL, AND SHALL BE RESPONSIBLE TO TAKE ALL ACTIONS REQUIRED TO SATISFACTORILY RESOLVE A VIOLATION OF 20.11.20 NMAC – FUGITIVE DUST CONTROL, INCLUDING STOPPING ALL ACTIVE OPERATIONS, IF NECESSARY. FAILURE TO COMPLY SHALL BE A VIOLATION OF 20.11.20 NMAC – FUGITIVE DUST CONTROL.

IS THE INFORMATION IN THIS SIGNATURE BOX REPRESENTATIVE OF (CHECK ONE):

☐ **PROJECT OWNER** ☑ **PROJECT OPERATOR** ☐ **BOTH** (COMPLETE ALL APPLICABLE INFORMATION)

Same as Permittee PRINT PROJECT OWNER/OPERATOR'S BUSINESS NAME	PRINT TITLE OF INDIVIDUAL SIGNING FOR PROJECT OWNER/OPERATOR
Todd Hiltunen 307-214-6080 PRINT NAME OF INDIVIDUAL SIGNING FOR PROJECT OWNER/OPERATOR	
SIGNATURE OF PROJECT OWNER/OPERATOR	INITIALS OF PROJECT OWNER/OPERATOR: TH DATE SIGNED: 6/11/14
244-0 Louisiana Blvd Suite 300 / Albuquerque / NM / 87110 MAILING ADDRESS OF PROJECT OWNER/OPERATOR / CITY / STATE / ZIP CODE	
307-214-6080 PHONE OF PROJECT OWNER/OPERATOR	307-214-6080 CELL OF PROJECT OWNER/OPERATOR
FAX OF OWNER/OPERATOR	
EMAIL ADDRESS OF PROJECT OWNER/OPERATOR	

PART I. – SIGNATURE AUTHORITY OF RESPONSIBLE PERSON

RESPONSIBLE PERSON MEANS THE PERSON DESIGNATED IN A PERMIT WHO IS RESPONSIBLE FOR COMPLYING WITH THE PERMIT, PLAN AND 20.11.20 NMAC – FUGITIVE DUST CONTROL, TO THE EXTENT SPECIFIED IN THE PERMIT. A RESPONSIBLE PERSON CAN BE THE PERMITTEE, THE OWNER, THE OPERATOR, OR ANOTHER PERSON(S).

Department Review by _____ **Permittee's Initials Required Here** RJH

IF MORE THAN 1 INDIVIDUAL WILL BE I[illegible]NATED AS A RESPONSIBLE PERSON AT THE[illegible]E OF THIS APPLICATION SUBMITTAL, MAKE PHOTOCOPIES OF THIS PAGE BEFORE COM[illegible]ETING ANY INFORMATION. AFTER THE ISSU[illegible]CE OF THE PERMIT, THE DEPARTMENT MAY APPROVE IN WRITING AN AMENDMENT TO THE PERMIT TO ADD OR CHANGE A DESIGNATED RESPONSIBLE PERSON(S).

CB&I FEDERAL SERVICES
PRINT RESPONSIBLE PERSON'S BUSINESS NAME

RICHARD HEFFERNAN
PRINT NAME OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

Construction Manager
PRINT TITLE OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

12 May 2014
DATE SIGNED

Richard J Heffernan
SIGNATURE OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

RJH
INITIALS OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

244-0 Louisiana Blvd NE Suite 300
ADDRESS OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

Albuquerque
CITY

NM
STATE

87110
ZIP CODE

505-262-8800
PHONE OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

863-581-4453
CELL OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

505-262-8855
FAX OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

RICHARD.HEFFERNAN@CBIFEDERALSERVICES.COM
EMAIL OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON

DUST CONTROL
ACTIVE OPERATION RESPONSIBILIES OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON [ACTIVITY(IES)]

Same as Permittee
SIGNATURE OF PERMITTEE APPROVING THE DESIGNATION OF ABOVE INDIVIDUAL AS A RESPONSIBLE PERSON

DATE SIGNED

BY SIGNING ABOVE AS A RESPONSIBLE PERSON YOU WILL BE DESIGNATED IN THE PERMIT ISSUED BY THE DEPARTMENT AS RESPONSIBLE FOR COMPLYING WITH THE PERMIT, PLAN AND PART 20.11.20 NMAC – FUGITIVE DUST CONTROL TO THE EXTENT SPECIFIED IN THE ABOVE [ACTIVITY(IES)] FOR THE DURATION OF THE PERMIT OR UNTIL SUCH TIME AS THE DEPARTMENT RECEIVES A REQUEST FROM THE PERMITTEE TO REMOVE YOU FROM BEING THE RESPONSIBLE PERSON FOR THE ABOVE [ACTIVITY(IES)]. THE RESPONSIBLE PERSON SHALL BE THE FIRST PERSON CONTACTED BY THE DEPARTMENT TO RESOLVE A VIOLATION OF THE PERMIT OR PART 20.11.20 NMAC TO THE EXTENT OUTLINED ABOVE IN THE 'ACTIVE OPERATION RESPONSIBILITIES OF INDIVIDUAL SIGNING AS A RESPONSIBLE PERSON' [ACTIVITY(IES)]. THE PERMITTEE WILL BECOME THE RESPONSIBLE PERSON FOR THE [ACTIVITY(IES)] THAT A RESPONSIBLE PERSON IS REMOVED FROM, UNLESS A NEW RESPONSIBLE PERSON IS DESIGNATED FOR THE SAME [ACTIVITY(IES)] AND APPROVED BY THE DEPARTMENT IN WRITING.

THE PERMITTEE OR RESPONSIBLE PERSON SHALL MAINTAIN A CURRENT COPY OF THE PERMIT AT THE WORK SITE AND MAKE THE PERMIT AVAILABLE AND EXPLAIN THE REQUIREMENTS OF THE PERMIT TO EMPLOYEES, AGENTS, CONTRACTORS, AND OTHER PERSONS PERFORMING WORK IN THE AREA TO ASSIST IN MAINTAINING COMPLIANCE WITH PART 20.11.20 NMAC – FUGITIVE DUST CONTROL.

PURSUANT TO THE AIR QUALITY CONTROL ACT, CHAPTER 74, ARTICLE 2 NEW MEXICO STATUTES ANNOTATED 1978, AS AMENDED; THE ALBUQUERQUE JOINT AIR QUALITY CONTROL BOARD ORDINANCE, 9-5-1-1 ROA 1994; THE BERNALILLO COUNTY JOINT AIR QUALITY CONTROL BOARD ORDINANCE, BERNALILLO COUNTY ORDINANCE 94-5, AND THE ALBUQUERQUE/BERNALILLO COUNTY AIR QUALITY CONTROL BOARD (A/BCAQCB) REGULATION TITLE 20, CHAPTER 11, PART 20, NEW MEXICO ADMINISTRATIVE CODE (NMAC), (20.11.20 NMAC) - FUGITIVE DUST CONTROL, AND UPON AUTHORIZED SIGNATURES BELOW, THIS APPLICATION TOGETHER WITH ASSOCIATED DRAWINGS, PLANS, APPENDED DOCUMENTS, OTHER DATA, AND ANY CONDITIONS ATTACHED TO THE PERMIT BY THE DEPARTMENT, WILL BECOME THE FUGITIVE DUST CONTROL CONSTRUCTION PERMIT.

AREA BELOW FOR DEPARTMENT USE.

DOES THE DEPARTMENT APPROVAL BELOW INCLUDE APPROVAL FOR ANY BULK MATERIAL STOCKPILES TO EXCEED 15 FEET _____ YES X NO

IF YES, MAXIMUM HEIGHT ALLOWED _____ FEET

APPLICATION REVIEWED BY:	DEEMED COMPLETE DATE	PERMIT ISSUED BY:	ISSUE DATE	EXPIRATION DATE
Tony Romero AIR QUALITY PROGRAM	5/14/2014	Tony Romero AIR QUALITY PROGRAM	5/14/2014	5/14/2016

PART J. – TRANSFER OF FUGITIVE DUST CONTROL PERMIT AND PLAN

IF A PORTION OF THE REAL PROPERTY THAT IS SUBJECT TO A PERMIT IS TRANSFERRED OR SOLD, THE NEW OWNER IS RESPONSIBLE WITH OBTAINING A FUGITIVE DUST CONTROL PERMIT - UNLESS EXEMPT. THE PERMITTEE WHO TRANSFERRED OR SOLD THE REAL PROPERTY IS THEN NO LONGER RESPONSIBLE FOR FUGITIVE DUST CONTROL FROM THE REAL PROPERTY TRANSFERRED OR SOLD AND THE DEPARTMENT SHALL

Department Review by _____ **Permittee's Initials Required Here** RJH

AMEND THE PERMIT TO REFLECT THE CHANGE.

USE THIS PAGE ONLY IF TRANSFERRING COMPLETE RESPONSIBILITY OF A CURRENT PERMIT AND PLAN.

A FUGITIVE DUST CONTROL PERMIT AND PLAN MAY BE TRANSFERRED TO LEGAL HEIRS, SUCCESSORS, AND ASSIGNS, WHO SHALL BECOME THE NEW PERMITTEE. TRANSFERS MAY BE MADE AS AN ADMINISTRATIVE AMENDMENT PROVIDED THAT:

1) A WRITTEN TRANSFER OF AGREEMENT IS DRAFTED BETWEEN THE CURRENT AND NEW PERMITTEE, AND THE PROJECT OWNER; AND
2) A SPECIFIC DATE IS ESTABLISHED FOR THE TRANSFER OF THE PERMIT AND PLAN RESPONSIBILITY, COVERAGE, AND LIABILITY; AND
3) DEPARTMENT APPROVAL OF WRITTEN TRANSFER OF AGREEMENT HAS BEEN AUTHORIZED.

THERE IS NO COST FOR TRANSFER OF THE FUGITIVE DUST CONTROL PERMIT AND PLAN IF DETERMINED BY THE DEPARTMENT THAT ONLY ADMINISTRATIVE CHANGE IS NEEDED. HOWEVER, NEW APPLICATION INFORMATION MUST BE SUBMITTED BY THE NEW PERMITTEE OR OWNER ALONG WITH ANY APPLICABLE FEES, IF DETERMINED BY THE DEPARTMENT THAT NECESSARY CHANGES ARE REQUIRED TO COMPLETE THE TRANSFER OF AGREEMENT (PARTICULARLY, ANY INCREASE TO THE PERMITTED 'TOTAL AREA TO BE DISTURBED').

TRANSFER OF AGREEMENT SIGNATURE BOX FOR CURRENT PERMITTEE

PRINTED NAME OF INDIVIDUAL SIGNING FOR CURRENT PERMITTEE _____ REQUESTED DATE FOR TRANSFER OF PERMIT AND PLAN _____

SIGNATURE OF CURRENT PERMITTEE _____ INITIALS OF CURRENT PERMITTEE _____ SUBMITTAL DATE OF THIS PAGE _____

TRANSFER OF AGREEMENT SIGNATURE BOX FOR NEW PERMITTEE

PRINT NEW PERMITTEE BUSINESS NAME _____ REQUESTED DATE FOR ACCEPTANCE OF PERMIT AND PLAN _____

PRINTED NAME OF INDIVIDUAL SIGNING FOR NEW PERMITTEE _____ PRINT TITLE OF INDIVIDUAL SIGNING FOR NEW PERMITTEE _____

SIGNATURE OF NEW PERMITTEE _____ INITIALS OF NEW PERMITTEE _____

BY SIGNING ABOVE AS THE NEW PERMITTEE, I AGREE TO ACCEPT RESPONSIBILITY, COVERAGE, AND LIABILITY FOR THE EXISTING FUGITIVE DUST CONTROL PERMIT #_____ AND INCORPORATED FUGITIVE DUST CONTROL PLAN.

TRANSFER OF AGREEMENT SIGNATURE BOX FOR PROJECT OWNER IF DIFFERENT THAN PERMITTEE

PRINTED NAME OF INDIVIDUAL SIGNING FOR PROJECT OWNER _____ DATE SIGNED _____

SIGNATURE OF PROJECT OWNER _____ INITIALS OF PROJECT OWNER _____

BY SIGNING ABOVE AS THE PROJECT OWNER, I AGREE TO THE TRANSFER OF RESPONSIBILITY OF THE EXISTING FUGITIVE DUST CONTROL PERMIT #_____ AND INCORPORATED FUGITIVE DUST CONTROL PLAN TO THE ABOVE SIGNED NEW PERMITTEE.

AREA BELOW FOR DEPARTMENT USE — INITIAL ONE OF THE CONDITIONS (A OR B) GIVEN BELOW

A.) The department has determined that no change to the permit/plan other than administrative change is necessary _____

B.) The department has determined that necessary change(s) to the permit and/or plan are required prior to transfer _____

PERMIT TRANSFER OF AGREEMENT REVIEWED BY:	DEEMED COMPLETE DATE	TRANSFERRED PERMIT #_____ ISSUED BY:	ISSUE DATE	EXPIRATION DATE
_____ AIR QUALITY PROGRAM	___/___/20___	_____ AIR QUALITY PROGRAM	___/___/20___	___/___/20___

Department Review by_____ Permittee's Initials Required Here RJH

City of Albuquerque
Environmental Health Department
Air Quality Division

1 Civic Plaza NW, Room 3047
Albuquerque, NM 87103
505.768.1972

Register Now! Sign up on the City's new, free business website: www.thriveabq.com

KIRTLAND AIR FORCE BASE BULK FUELS FACILITY SPILL **2500 RIDGECREST AVE SE**

Facility ID: **FA0006198** A/R ID : **AR0006199** Invoice ID : **IN0003093** **06/11/2014**

Permit #	Description	Amount
6621-C	CONSTRUCTION - INSPECTION FEE - CB&I FEDERAL SERVICES	$123.00

Due Date: 6/11/2014 **Total Due for This Invoice: $123.00**

ITEMS OVER 120 DAYS PAST DUE MAY BE SENT TO COLLECTIONS

Cashier:TRSRMS
Tran #: 2
==========
Air Quality
pt #00204557
nt#:0006199
y Payment $123.00
otal: $123.00
==========
tal: $123.00
dered : $123.00

or your payment.
a nice day!

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APPENDIX C

Geotechnical Testing Results

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: August 21, 2014

Project #: 14-519-00612
Report #: 39542
Tested By: Don Miller
Date Tested: 8/14/2014
General Location of Testing: Trench D-193 & D-201 Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440
Serial #: 30611

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture			Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required	
					Actual	Required (-)	Required (+)					Min	Max
01	2' N Edge, 15' E Edge, D-201	FSG -4'	D	12	3.6	2	2	128.5	124.1	130.0	95	90	
02	2' S Edge, 10' E Edge, D-201	FSG -3'	D	12	6.3	2	2	140.1	131.8	130.0	100+	90	
03	Centerline Excavation, D-201	FSG -2'	D	12	4.9	2	2	122.6	116.9	130.0	90	90	
04	5' E Edge, 5' S Edge, D-201	FSG -1'	D	12	5.7	2	2	135.3	128.0	130.0	98	90	
05	5' W Edge, 5' N Edge, D-201	FSG	D	12	5.7	2	2	132.1	125.0	130.0	96	90	
06	Centerline Excavation, D-201	FSG	D	12	4.6	2	2	122.6	117.3	130.0	90	90	
07	Centerline Trence, D-193	FSG -4'	D	12	5.5	2	2	135.9	128.9	130.0	99	90	
08	3' W Edge, 5' N Edge, D-193	FSG -3'	D	12	4.2	2	2	132.1	126.8	130.0	98	90	
09	Centerline Excavation, D-193	FSG -2'	D	12	5.9	2	2	133.6	126.2	130.0	97	90	
10	6' N Edge, D-193	FSG -1'	D	12	4.4	2	2	135.0	129.9	130.0	100	90	

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Com-paction	% Com-paction Required Min	% Com-paction Required Max

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: August 19, 2014

Project #: 14-519-00612
Report #: 39490
Tested By: Don Miller
Date Tested: 8/16/2014
General Location of Testing: Trench D-259 Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440
Serial #: 30611

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max	
01	3' S Edge of Trench, 1' W Edge of Trench	FSG -10'	D	12	5.6	2	2	129.0	122.1	130.0	94	90		
02	Centerline of Trench	FSG -9'	D	12	5.8	2	2	137.0	129.5	130.0	100	90		
03	3' N Edge of Trench, Centerline	FSG -8'	D	12	6.5	2	2	138.0	129.6	130.0	100	90		
04	2' E of Trench, 6' S End of Trench	FSG -7'	D	12	6.6	2	2	139.2	130.7	130.0	100+	90		
05	Centerline of Trench	FSG -6'	D	12	6.3	2	2	130.3	122.6	130.0	94	90		
06	3' N End of Trench, Centerline	FSG -5'	D	12	6.2	2	2	124.9	117.6	130.0	90	90		
07	2' E Wall Excavation, 9' S End of Excavation	FSG -4'	D	12	7.5	2	2	126.5	116.7	130.0	90	90		*
08	Centerline, Edge of Trench	FSG -4'	D	12	6.0	2	2	130.7	122.8	130.0	94	90		
09	7' N Edge of Excavation, 7' W of Excavation	FSG -3'	D	12	5.2	2	2	136.4	129.4	130.0	100	90		
10	7' S Edge of Excavation, 3' W Edge of Excavation	FSG -2'	D	12	6.3	2	2	136.3	128.2	130.0	99	90		
11	6' N Edge of Excavation, 9' W Edge of Excavation	FSG -1'	D	12	6.0	2	2	129.1	117.1	130.0	90	90		
12	Centerline of Excavation	FSG	D	12	6.0	2	2	129.5	122.2	130.0	94	90		

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

*** Material did not fall within specified tolerances.**

AMEC Environment & Infrastructure, Inc.
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Albuquerque, NM 87113
Tel 5058211801
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www.amec.com

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

*** Material did not fall within specified tolerances.**

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client:	CB&I Federal Services, LLC 2440 Louisiana Blvd NE Suite 300 Albuquerque, NM 87110	**Report Date:**	August 19, 2014
Attn:	Todd Hiltunen	**Project #:**	14-519-00612
Project Name:	KAFB-FFOR Excavation 5202 Randolph St Albuquerque, NM	**Report #:** **Tested By:** **Date Tested:** **General Location of Testing:**	39489 Don Miller 8/15/2014 Trench D-259 Backfill
Project Manager:	Robert Romero		

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440
Serial #: 30611

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture			Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required	
					Actual	Required (-)	Required (+)					Min	Max
01	N End of Trench, Centerline	FSG -12'	D	12	7.3	3	3	126.1	117.5	130.0	90	90	
02	E Side of Trench, Centerline	FSG -11'	D	12	6.9	3	3	136.0	127.2	130.0	98	90	

Reviewed By: jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
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Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client:	CB&I Federal Services, LLC 2440 Louisiana Blvd NE Suite 300 Albuquerque, NM 87110	**Report Date:**	August 19, 2014
Attn:	Todd Hiltunen	**Project #:**	14-519-00612
Project Name:	KAFB-FFOR Excavation 5202 Randolph St Albuquerque, NM	**Report #:** **Tested By:** **Date Tested:** **General Location of Testing:**	39488 Don Miller 8/14/2014 Trench D-259 Backfill
Project Manager:	Robert Romero		

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440
Serial #: 30611

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture			Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required		
					Actual	Required (-)	Required (+)					Min	Max	
01	Centerline of Trench D-259	FSG -15'	D	12	5.7	2	2	138.0	130.5	130.0	100	90		
02	E Edge of Trench, Centerline	FSG -14'	D	12	14.1	2	2	135.4	118.7	130.0	91	90		*
03	E Edge of Trench, Centerline (Retest of #02, Tested Today)	FSG -14'	D	12	7.5	2	2	133.5	124.2	130.0	96	90		*
04	N End of Trench, Centerline	FSG -13'	D	12	6.3	2	2	128.7	121.1	130.0	93	90		
05	S End of Trench, Centerline	FSG -12'	D	12	6.5	2	2	136.4	128.1	130.0	99	90		
06	Centerline of Trench D-259	FSG -11'	D	12	5.6	2	2	138.6	131.6	130.0	100+	90		
07	N End of Trench, Centerline	FSG -10'	D	12	6.3	2	2	139.7	131.4	130.0	100+	90		

Reviewed By: jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

* Material did not fall within specified tolerances.

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: August 27, 2014

Project #: 14-519-00612
Report #: 39610
Tested By: Joseph Cordova
Date Tested: 8/26/2014
General Location of Testing: DP 213 Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
01	DP 213	FSG -4'	D	6	4.3	2	2	129.2	123.9	130.0	95	90	
02	DP 213	FSG -3'	D	6	6.3	2	2	135.6	127.6	130.0	98	90	
03	DP 213	FSG -2'	D	6	5.7	2	2	132.3	125.2	130.0	96	90	
04	DP 213	FSG -1'	D	6	5.7	2	2	126.0	119.2	130.0	92	90	
05	DP 213 South	FSG	D	6	5.3	2	2	123.8	117.6	130.0	90	90	
06	DP 213 North	FSG	D	6	4.9	2	2	126.2	120.3	130.0	93	90	

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
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Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 05, 2014

Project #: 14-519-00612
Report #: 39697
Tested By: Joseph Cordova
Date Tested: 8/29/2014
General Location of Testing: Backfill on DP 067, 068, 326, 344 & 066

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36812

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
01	DP 067, 068, 326, 344 & 066	FSG -4'	D	6	5.7	2	2	123.6	117.0	130.0	90	90	

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 05, 2014

Project #: 14-519-00612
Report #: 39696
Tested By: Joseph Cordova
Date Tested: 8/29/2014
General Location of Testing: Backfill for DP 024, 025, 026, 028 & 029

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36812

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture			Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required	
					Actual	Required (-)	Required (+)					Min	Max
01	DP 024, 025, 026, 028 & 029	FSG -13'	D	6	5.2	2	2	125.3	119.2	130.0	92	90	
02	DP 024, 025, 026, 028 & 029	FSG -12'	D	6	5.7	2	2	126.8	120.0	130.0	92	90	
03	DP 024, 025, 026, 028 & 029	FSG -11'	D	6	5.3	2	2	124.1	117.9	130.0	91	90	
04	DP 024, 025, 026, 028 & 029	FSG -10'	D	6	6.0	2	2	125.4	118.3	130.0	91	90	
05	DP 024, 025, 026, 028 & 029	FSG -9'	D	6	6.3	2	2	127.5	119.9	130.0	92	90	
06	DP 024, 025, 026, 028 & 029	FSG -8'	D	6	6.3	2	2	125.1	117.6	130.0	90	90	
07	DP 024, 025, 026, 028 & 029	FSG -7'	D	6	6.5	2	2	126.8	119.1	130.0	92	90	
08	DP 024, 025, 026, 028 & 029	FSG -6'	D	6	6.5	2	2	129.1	121.3	130.0	93	90	
09	DP 024, 025, 026, 028 & 029	FSG -5'	D	6	6.4	2	2	133.1	125.1	130.0	96	90	
10	DP 024, 025, 026, 028 & 029	FSG -4'	D	6	5.2	2	2	132.6	125.3	130.0	96	90	

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Com-paction	% Com-paction Required Min	% Com-paction Required Max

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 05, 2014

Project #: 14-519-00612
Report #: 39693
Tested By: Joseph Cordova
Date Tested: 8/28/2014
General Location of Testing: Backfill of DP 062, 063, 326 & 344

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
01	DP 067, 068, 326 & 344	FSG -11'	D	6	5.2	2	2	131.3	124.8	130.0	96	90	
02	DP 067, 068, 326 & 344	FSG -10'	D	6	5.3	2	2	130.1	123.5	130.0	95	90	
03	DP 067, 068, 326 & 344	FSG -9'	D	6	5.4	2	2	127.4	120.9	130.0	93	90	
04	DP 067, 068, 326 & 344	FSG -8'	D	6	5.4	2	2	126.1	119.6	130.0	92	90	
05	DP 067, 068, 326 & 344	FSG -7'	D	6	4.8	2	2	127.9	122.1	130.0	94	90	
06	DP 067, 068, 326 & 344	FSG -6'	D	6	5.8	2	2	124.0	117.2	130.0	90	90	
07	DP 067, 068, 326 & 344	FSG -5'	D	6	6.1	2	2	124.7	117.5	130.0	90	90	

Reviewed By:
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

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Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 05, 2014

Project #: 14-519-00612
Report #: 39692
Tested By: Joseph Cordova
Date Tested: 8/27/2014
General Location of Testing: Backfill of DP 067, 068, 326 & 344

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max	
01	DP 067, 068, 326 & 344	FSG -13'	D	6	7.4	2	2	125.2	117.0	130.0	90	90		*
02	DP 067, 068, 326 & 344	FSG -12'	D	6	7.0	2	2	130.6	122.1	130.0	94	90		

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

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*** Material did not fall within specified tolerances.**

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Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 23, 2014

Project #: 14-519-00612
Report #: 39856
Tested By: Joseph Cordova
Date Tested: 9/18/2014
General Location of Testing: DP Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
01	DP 61	FSG -3'	D	6	5.3	2	2	123.5	117.3	130.0	90	90	
02	DP 54	FSG -4'	D	6	5.5	2	2	124.2	117.7	130.0	91	90	
03	DP 61	FSG -1'	D	6	6.0	2	2	130.6	123.3	130.0	95	90	
04	DP 54	FSG -2'	D	6	5.5	2	2	136.1	129.0	130.0	99	90	
05	DP 61	FSG	D	6	5.0	2	2	127.1	121.1	130.0	93	90	

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

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www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 23, 2014

Project #: 14-519-00612
Report #: 39855
Tested By: Joseph Cordova
Date Tested: 9/17/2014
General Location of Testing: DP Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge

Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Com-paction	% Com-paction Required Min	% Com-paction Required Max
01	DP 19	FSG -2'	D	6	4.3	2	2	125.2	120.0	130.0	92	90	
02	DP 25	FSG -3'	D	6	5.5	2	2	126.9	120.3	130.0	93	90	
03	DP 35	FSG -3'	D	6	5.6	2	2	123.5	117.0	130.0	90	90	
04	DP 39	FSG -2'	D	6	4.8	2	2	125.2	119.5	130.0	92	90	
05	DP 23	FSG	D	6	4.5	2	2	127.1	121.6	130.0	94	90	
06	DP 26	FSG -1'	D	6	5.6	2	2	130.7	123.2	130.0	95	90	
07	DP 37	FSG	D	6	4.6	2	2	126.5	121.0	130.0	93	90	
08	DP 44	FSG	D	6	4.8	2	2	125.3	119.5	130.0	92	90	

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

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www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

Report Date: September 23, 2014

Project #: 14-519-00612
Report #: 39854
Tested By: Joseph Cordova
Date Tested: 9/16/2014
General Location of Testing: DP Backfill

Project Manager: Robert Romero

FIELD DENSITY TEST USING NUCLEAR DENSITY GAUGE (ASTM D6938-10)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description
14-0555	130.0	5.0	ASTM D1557-09 / C	Silty Sand w/Gravel

Nuclear Density Gauge
Make: Troxler
Model #: 3440-A
Serial #: 36813

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
01	DP 19, 23	FSG -4'	D	6	6.0	2	2	126.0	118.9	130.0	91	90	
02	DP 40	FSG -4'	D	6	5.7	2	2	125.4	118.7	130.0	91	90	
03	DP 71	FSG -3'	D	6	4.6	2	2	120.4	118.4	130.0	91	90	
04	DP 81	FSG -4'	D	6	7.0	2	2	127.0	118.7	130.0	91	90	
05	DP 99	FSG -3'	D	6	3.5	2	2	129.8	125.4	130.0	96	90	
06	DP 95	FSG -4'	D	6	5.0	2	2	122.9	117.0	130.0	90	90	
07	DP 75	FSG -2'	D	6	3.5	2	2	121.3	117.3	130.0	90	90	
08	DP 326	FSG -1'	D	6	5.0	2	2	126.0	120.0	130.0	92	90	
09	DP 96	FSG -1'	D	6	4.3	2	2	122.0	117.0	130.0	90	90	
10	DP 98	FSG -2'	D	6	4.7	2	2	122.4	117.0	130.0	90	90	
11	DP 95	FSG	D	6	5.0	2	2	123.3	117.4	130.0	90	90	
12	DP 345	FSG	D	6	5.0	2	2	123.9	118.1	130.0	91	90	

Reviewed By: _____
jdc

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep

Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Environment & Infrastructure, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: CB&I Federal Services, LLC
2440 Louisiana Blvd NE
Suite 300
Albuquerque, NM 87110

Attn: Todd Hiltunen

Project Name: KAFB-FFOR Excavation
5202 Randolph St
Albuquerque, NM

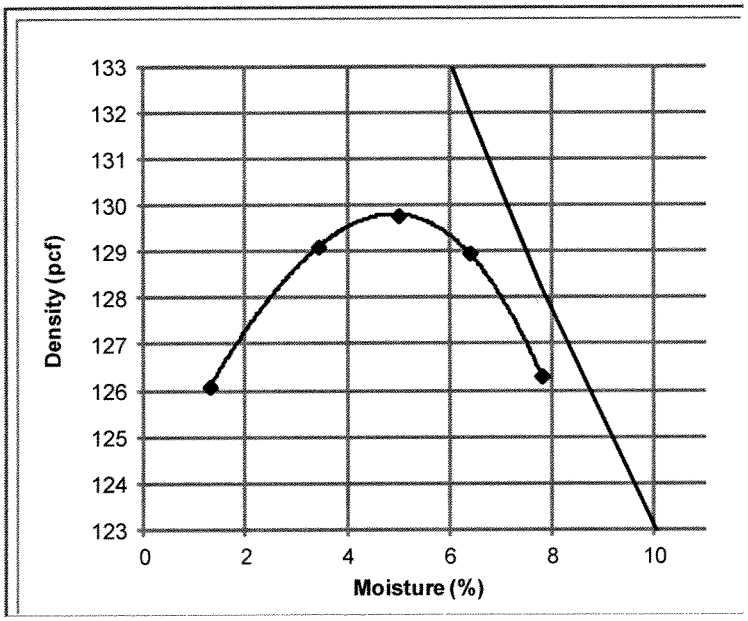
Project Manager: Jason Olivar

Report Date: July 11, 2014

Project #: 14-519-00612
Work Order #: 1
Lab #: 14-0555
Sampled By: Client
Date Sampled: 7/7/2014
Visual Description of Material: Silty Sand w/Gravel
Sample Source: Native Material

SOILS / AGGREGATES

No Project Specification was Provided.



Sieve Analysis (ASTM C117-04/C136-06)

200 Wash Procedure: A

	Sieve Size	Passing
Coarse Portion:	1in.	100%
	3/4in.	99%
	1/2in.	97%
	3/8in.	95%
	1/4in.	89%
	#4	83%
Fine Portion:	#8	66%
	#10	60%
	#16	45%
	#30	31%
	#40	25%
	#50	21%
	#100	16%
	#200	7.5%

Moisture Density Relationship: (ASTM D1557-09) **Method:** C
Preparation Method: Dry **Rammer Type:** Mechanical
Specific Gravity: 2.45 **Assumed**
Maximum Density: 130.0
Optimum Moisture: 5.0

Plasticity Index (ASTM D4318-10)

Liquid Limit: NV
Plastic Limit: NV
Plasticity Index: NP

Preparation Method: Wet **Liquid Limit Method:** A
PI Air Dried.

Soil Classification (ASTM D2487-10) SW-SM

Reviewed By: jo

Distribution: Client ☐ File: ☑ Supplier: ☑ Email: ☐ Other: Todd Hiltunen (1)

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8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
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www.amec.com

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APPENDIX D

Field Documentation

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0001

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 2 days

Samples Shipment Date: 20 JUN 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: / None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions: 2 day turnaround time

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation) Jen Kirkl	Date: 6/20/14 Time: 1145	1. Received By (Signature/Affiliation)	Date: 6/20/14 Time: 1145
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor
PID = 0.0 ppm
1 - terracore kit
2 - 8oz jars

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-BF-0001	0.100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-BF-0001	0.100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	8 oz CWM	1	None except cool to 4 C	SVOCs by SW846 8270D			N		
FFOR-BF-0001	0.100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	8 oz CWM	1	None except cool to 4 C	TPH 8015 DRO RCRA Metals (6010B/7471A) Pesticides (SW846 8081A) Herbicides (8151A) PAHs (8270D SIM) PCBs (8082)			N		

1 8-oz jar

TSK 6/20/14

1 8-oz jar

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOR-EXC-0002

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 30 JUN 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 6/30/14 Time: 1645
1. Received By (Signature/Affiliation) — Date: 6/30/14 Time: 1640
2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: no odor in any.
PID: FFOR-EXC-01 = 0.3 ppm, FFOR-EXC-02 = 0.5 ppm, FFOR-EXC-03 = 52 ppm, FFOR-EXC-04 = 0.0 ppm, FFOR-EXC-05 = 0.1 ppm, FFOR-EXC-06 = 0.0 ppm, FFOR-EXC-07 = 16.2 ppm, FFOR-EXC-08 = 2.1 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0001	FFOR-EXC-01-DS-FFOR-CF-0001-REG	30 JUN 2014	10:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		
FFOR-CF-0001	FFOR-EXC-01-DS-FFOR-CF-0001-REG	30 JUN 2014	10:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0002	FFOR-EXC-02-DS-FFOR-CF-0002-REG	30 JUN 2014	10:36	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B,			N		
FFOR-CF-0002	FFOR-EXC-02-DS-FFOR-CF-0002-REG	30 JUN 2014	10:36	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		
FFOR-CF-0003	FFOR-EXC-03-DS-FFOR-CF-0003-REG	30 JUN 2014	10:46	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0003	FFOR-EXC-03-DS-FFOR-CF-0003-REG	30 JUN 2014	10:46	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs, TPH-DRO			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOR-EXC-0002

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D					
FFOR-CF-0004	FFOR-EXC-04-DS-FFOR-CF-0004-REG	30 JUN 2014	10:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0004	FFOR-EXC-04-DS-FFOR-CF-0004-REG	30 JUN 2014	10:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		
FFOR-CF-0005	FFOR-EXC-05-DS-FFOR-CF-0005-REG	30 JUN 2014	11:43	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D TPH DRO			N		
FFOR-CF-0005	FFOR-EXC-05-DS-FFOR-CF-0005-REG	30 JUN 2014	11:43	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0006	FFOR-EXC-06-DS-FFOR-CF-0006-REG	30 JUN 2014	11:51	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0006	FFOR-EXC-06-DS-FFOR-CF-0006-REG	30 JUN 2014	11:51	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		
FFOR-CF-0007	FFOR-EXC-07-DS-FFOR-CF-0007-REG	30 JUN 2014	14:52	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0007	FFOR-EXC-07-DS-FFOR-CF-0007-REG	30 JUN 2014	14:52	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		
FFOR-CF-0008	FFOR-EXC-08-DS-FFOR-CF-0008-REG	30 JUN 2014	14:58	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0008	FFOR-EXC-08-DS-FFOR-CF-0008-REG	30 JUN 2014	14:58	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0003

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 01 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: / None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/1/14 Time: 1545	1. Received By (Signature/Affiliation)	Date: 7/1/14 Time: 1545
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor in any samples. PID: FFOR-CF-0009=1.3 ppm, FFOR-CF-0010=1.6 ppm, FFOR-CF-0011=1.6 ppm, FFOR-CF-0012=0.0 ppm, FFOR-CF-0013=0.0 ppm, FFOR-CF-0014=0.0 ppm, FFOR-CF-0015=2.2 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0009	FFOR-EXC-09-DS-FFOR-CF-0009-REG	01 JUL 2014	09:43	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0009	FFOR-EXC-09-DS-FFOR-CF-0009-REG	01 JUL 2014	09:43	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0010	FFOR-EXC-10-DS-FFOR-CF-0010-REG	01 JUL 2014	11:14	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0010	FFOR-EXC-10-DS-FFOR-CF-0010-REG	01 JUL 2014	11:14	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0011	FFOR-EXC-10-DS-FFOR-CF-0011-FD	01 JUL 2014	11:14	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0011	FFOR-EXC-10-DS-FFOR-CF-0011-FD	01 JUL 2014	11:14	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0003

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D, TPH DRO 8015B					
FFOR-CF-0012	FFOR-EXC-11-DS-FFOR-CF-0012-REG	01 JUL 2014	11:33	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0012	FFOR-EXC-11-DS-FFOR-CF-0012-REG	01 JUL 2014	11:33	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0013	FFOR-EXC-12-DS-FFOR-CF-0013-REG	01 JUL 2014	11:41	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0013	FFOR-EXC-12-DS-FFOR-CF-0013-REG	01 JUL 2014	11:41	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0014	FFOR-EXC-13-DS-FFOR-CF-0014-REG	01 JUL 2014	11:51	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0014	FFOR-EXC-13-DS-FFOR-CF-0014-REG	01 JUL 2014	11:51	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0015	FFOR-EXC-14-DS-FFOR-CF-0015-REG	01 JUL 2014	14:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0015	FFOR-EXC-14-DS-FFOR-CF-0015-REG	01 JUL 2014	14:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0004

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 02 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: Fed Ex/

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 7/2/14 Time: 1630
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 7/2/14 Time: 1650
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: No odor in any. PID: CF-0016 = 0.2 ppm, CF-0017 = 0.3 ppm, CF-0018 = 0.0 ppm, CF-0019 = 0.0 ppm, CF-0020 = 0.0 ppm, CF-0021 = 0.3 ppm, CF-0022 = 0.3 ppm, CF-0023 = 0.0 ppm, CF-0024 = 0.0 ppm, CF-0025 = 0.0 ppm, CF-0026 = 0.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0016	FFOR-EXC-15-DS-FFOR-CF-0016-REG	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0016	FFOR-EXC-15-DS-FFOR-CF-0016-REG	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0016-MS	FFOR-EXC-15-DS-FFOR-CF-0016-MS-M	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0016-MS	FFOR-EXC-15-DS-FFOR-CF-0016-MS-M	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0016-MSD	FFOR-EXC-15-DS-FFOR-CF-0016-MSD-	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0016-MSD	FFOR-EXC-15-DS-FFOR-CF-0016-MSD-	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0004

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D, TPH DRO 8015B					
FFOR-CF-0017	FFOR-EXC-16-DS-FFOR-CF-0017-REG	02 JUL 2014	12:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B, ~~TPH DRO~~ TSK			N		
FFOR-CF-0017	FFOR-EXC-16-DS-FFOR-CF-0017-REG	02 JUL 2014	12:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0018	FFOR-EXC-17-DS-FFOR-CF-0018-REG	02 JUL 2014	12:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0018	FFOR-EXC-17-DS-FFOR-CF-0018-REG	02 JUL 2014	12:40	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0019	FFOR-EXC-18-DS-FFOR-CF-0019-REG	02 JUL 2014	12:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0019	FFOR-EXC-18-DS-FFOR-CF-0019-REG	02 JUL 2014	12:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0020	FFOR-EXC-19-DS-FFOR-CF-0020-REG	02 JUL 2014	13:43	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, ~~VOCs by SW846 8260B~~			N		
FFOR-CF-0020	FFOR-EXC-19-DS-FFOR-CF-0020-REG	02 JUL 2014	13:43	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0021	FFOR-EXC-20-DS-FFOR-CF-0021-REG	02 JUL 2014	15:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0021	FFOR-EXC-20-DS-FFOR-CF-0021-REG	02 JUL 2014	15:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0022	FFOR-EXC-20-DS-FFOR-CF-0022-FD	02 JUL 2014	15:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0022	FFOR-EXC-20-DS-FFOR-CF-0022-FD	02 JUL 2014	15:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
~~FFOR-CF-0023~~	~~FFOR-EXC-21-DS-FFOR-CF-0023-REG~~	~~02 JUL 2014~~	~~15:18~~	~~5 g TerraCore~~	~~1~~	~~None except cool to 4 C~~	~~TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B~~			~~N~~		
FFOR-CF-0023	FFOR-EXC-21-DS-FFOR-CF-0023-REG	02 JUL 2014	15:18	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0024	FFOR-EXC-22-DS-FFOR-CF-0024-REG	02 JUL 2014	15:26	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0024	FFOR-EXC-22-DS-FFOR-CF-0024-REG	02 JUL 2014	15:26	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0025	FFOR-EXC-23-DS-FFOR-CF-0025-REG	02 JUL 2014	15:34	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0025	FFOR-EXC-23-DS-FFOR-CF-0025-REG	02 JUL 2014	15:34	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0026	FFOR-EXC-24-DS-FFOR-CF-0026-REG	02 JUL 2014	15:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0026	FFOR-EXC-24-DS-FFOR-CF-0026-REG	02 JUL 2014	15:40	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0005

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 03 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/3/14 Time: 1130	1. Received By (Signature/Affiliation)	Date: 7/03/14 Time: 1130
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor, FFOR-CF-0027 has PID = 94.3 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0027	FFOR-EXC-25-DS-FFOR-CF-0027-REG	03 JUL 2014	09:35	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0027	FFOR-EXC-25-DS-FFOR-CF-0027-REG	03 JUL 2014	09:35	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0006

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 18 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/18/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/18/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: ALL PID HEADSPACE MEASUREMENTS 0.0 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0028	FFOR-EXC-26-DS-FFOR-CF-0028-REG	18 JUL 2014	09:52	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0028	FFOR-EXC-26-DS-FFOR-CF-0028-REG	18 JUL 2014	09:52	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0029	FFOR-EXC-27-DS-FFOR-CF-0029-REG	18 JUL 2014	10:01	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0029	FFOR-EXC-27-DS-FFOR-CF-0029-REG	18 JUL 2014	10:01	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0030	FFOR-EXC-28-DS-FFOR-CF-0030-REG	18 JUL 2014	10:12	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0006

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0030	FFOR-EXC-28-DS-FFOR-CF-0030-REG	18 JUL 2014	10:12	8 oz CWM	1	None except cool to 4 C	VOCs by SW846 8260B Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0031	FFOR-EXC-29-DS-FFOR-CF-0031-REG	18 JUL 2014	12:09	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0031	FFOR-EXC-29-DS-FFOR-CF-0031-REG	18 JUL 2014	12:09	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0007

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 21 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 7/21/14 Time: 1530
2. Relinquished By (Signature/Affiliation) — Date: 7/21/14 Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 7/21/14 Time: 1530
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID HEADSPACE = 0.7 PPM IN FFOR-CF-0078

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil N	CID	Condition On Receipt
●	FFOR-CF-0078 FFOR-EXCSO-01-SO-FFOR-CF-0078-RE	21 JUL 2014	11:15	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)					

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-000

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 24 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 7/24/14 Time: 1630
1. Received By (Signature/Affiliation) — Date: 7/24/14 Time: 1630
2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID: FFOR-CF-0079 = 1.6 ppm all others 0.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0079	FFOR-EXCSO-02-SO-FFOR-CF-0079-RE	24 JUL 2014	09:30	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0080	FFOR-EXCSO-03-SO-FFOR-CF-0080-RE	24 JUL 2014	10:39	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0081	FFOR-EXCSO-04-SO-FFOR-CF-0081-RE	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0081-I	FFOR-EXCSO-04-SO-FFOR-CF-0081-MS	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0081-I	FFOR-EXCSO-04-SO-FFOR-CF-0081-MSD	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

MS
MSD

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0009

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 25 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.:

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [x] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [x] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/25/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/25/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE BELOW 1.0 PPM IN EVERY SAMPLE

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0032	FFOR-EXC-30-DS-FFOR-CF-0032-REG	25 JUL 2014	09:06	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0032	FFOR-EXC-30-DS-FFOR-CF-0032-REG	25 JUL 2014	09:06	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0033	FFOR-EXC-30-DS-FFOR-CF-0033-FD	25 JUL 2014	09:06	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0033	FFOR-EXC-30-DS-FFOR-CF-0033-FD	25 JUL 2014	09:06	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0034	FFOR-EXC-31-DS-FFOR-CF-0034-REG	25 JUL 2014	09:20	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0009

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					
FFOR-CF-0034	FFOR-EXC-31-DS-FFOR-CF-0034-REG	25 JUL 2014	09:20	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0035	FFOR-EXC-32-DS-FFOR-CF-0035-REG	25 JUL 2014	09:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0035	FFOR-EXC-32-DS-FFOR-CF-0035-REG	25 JUL 2014	09:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0036	FFOR-EXC-33-DS-FFOR-CF-0036-REG	25 JUL 2014	09:37	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0036	FFOR-EXC-33-DS-FFOR-CF-0036-REG	25 JUL 2014	09:37	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0037	FFOR-EXC-34-DS-FFOR-CF-0037-REG	25 JUL 2014	15:30	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0037	FFOR-EXC-34-DS-FFOR-CF-0037-REG	25 JUL 2014	15:30	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00 10

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 29 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/29/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 1630 Time: 07/29/14
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID: FFOR-CF-0038, MS, MSD = 225 ppm; FFOR-CF-0039 = 33.4 ppm; FFOR-CF-0040 = 992 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-REG	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-REG	29 JUL 2014	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-MS-MS	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-MS-MS	29 JUL 2014	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-MSD-MSD	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00 | 0

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					
FFOR-CF-0038-M	FFOR-EXC-35-DS-FFOR-CF-0038-MSD-	29 JUL 2014	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0039	FFOR-EXC-36-DS-FFOR-CF-0039-REG	29 JUL 2014	09:04	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0039	FFOR-EXC-36-DS-FFOR-CF-0039-REG	29 JUL 2014	09:04	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0040	FFOR-EXC-37-DS-FFOR-CF-0040-REG	29 JUL 2014	09:11	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0040	FFOR-EXC-37-DS-FFOR-CF-0040-REG	29 JUL 2014	09:11	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0071

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 31 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.:

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X | Flammable | Skin Irritant | Poison B | Unknown | Radiological

Sample Disposal:
Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 7/31/14 Time: 1630
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 7/31/14 Time: 1630
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID in FFOR-CF-0041is 1,121 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0041	FFOR-EXC-38-DS-FFOR-CF-0041-REG	31 JUL 2014	10:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0041	FFOR-EXC-38-DS-FFOR-CF-0041-REG	31 JUL 2014	10:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00 12

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 07 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/7/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/7/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0042 MEASURED AT 1,082 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0042	FFOR-EXC-39-DS-FFOR-CF-0042-REG	07 AUG 2014	10:26	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0042	FFOR-EXC-39-DS-FFOR-CF-0042-REG	07 AUG 2014	10:26	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0013

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 4/8 hr

Samples Shipment Date: 15 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:

Non-hazard X | Flammable | Skin Irritant | Poison B | Radiological | Unknown

Sample Disposal:

Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 8/15/14 Time: 1630
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 8/15/14 Time: 1630
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: ~~PID IN FFOR-CF-0082 IS 2.7 PPM~~

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0082	FFOR-EXCSO-05-SO-FFOR-CF-0082-RE	15 AUG 2014	13:51	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0014

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 18 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/18/14 Time: 1630	1. Received By (Signature/Affiliation) — Date: 8/18/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID IN FFOR-CF-0045 = 5.7 PPM, FFOR-CF-0044 AND FFOR-CF-0043 = 3.9 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0043	FFOR-EXC-40-DS-FFOR-CF-0043-REG	18 AUG 2014	13:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0043	FFOR-EXC-40-DS-FFOR-CF-0043-REG	18 AUG 2014	13:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0044	FFOR-EXC-40-DS-FFOR-CF-0044-FD	18 AUG 2014	13:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0044	FFOR-EXC-40-DS-FFOR-CF-0044-FD	18 AUG 2014	13:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0045	FFOR-EXC-41-DS-FFOR-CF-0045-REG	18 AUG 2014	13:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B.			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00 14

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					
FFOR-CF-0045	FFOR-EXC-41-DS-FFOR-CF-0045-REG	18 AUG 2014	13:39	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00|5

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 19 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ——

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation) Date: 8/19/14 Time: 1630
1. Received By (Signature/Affiliation) Date: 8/19/14 Time: 1630
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments: PID IN FFOR-CF-0046 = 4.7 PPM, FFOR-CF-0047 = 1,030 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0046	FFOR-EXC-42-DS-FFOR-CF-0046-REG	19 AUG 2014	08:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0046	FFOR-EXC-42-DS-FFOR-CF-0046-REG	19 AUG 2014	08:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0047	FFOR-EXC-43-DS-FFOR-CF-0047-REG	19 AUG 2014	15:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0047	FFOR-EXC-43-DS-FFOR-CF-0047-REG	19 AUG 2014	15:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00 16

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 20 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ———

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 8/20/14 Time: 1630
1. Received By (Signature/Affiliation) Date: 8/20/14 Time: 1630

2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:

3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0048 = 979 ppm, FFOR-CF-0049 = 1,081 ppm, FFOR-CF-0050 = 13.41 ppm
8/20/14

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0048	FFOR-EXC-44-DS-FFOR-CF-0048-REG	20 AUG 2014	15:20	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0048	FFOR-EXC-44-DS-FFOR-CF-0048-REG	20 AUG 2014	15:20	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0049	FFOR-EXC-45-DS-FFOR-CF-0049-REG	20 AUG 2014	15:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0049	FFOR-EXC-45-DS-FFOR-CF-0049-REG	20 AUG 2014	15:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0050	FFOR-EXC-46-DS-FFOR-CF-0050-REG	20 AUG 2014	15:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0016

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
• FFOR-CF-0050	FFOR-EXC-46-DS-FFOR-CF-0050-REG	20-AUG-2014	15:40	8 oz CWM	1 None except cool to 4 C	VOCs by SW846 8260B Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0017

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 21 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 2/21/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 2/21/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE READING AT 1,474 PPM IN FFOR-CF-0051

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0051	FFOR-EXC-47-DS-FFOR-CF-0051-REG	21 AUG 2014	15:21	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0051	FFOR-EXC-47-DS-FFOR-CF-0051-REG	21 AUG 2014	15:21	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0018

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 27 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P.
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 8/27/14 Time: 1641
1. Received By (Signature/Affiliation) — Date: 8/27/14 Time: 1641

2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:

3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID READINGS: FFOR-CF-0052 = 95.6 PPM, FFOR-CF-0053 = 2,421 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0052	FFOR-EXC-48-DS-FFOR-CF-0052-REG	27 AUG 2014	14:13	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0052	FFOR-EXC-48-DS-FFOR-CF-0052-REG	27 AUG 2014	14:13	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0053	FFOR-EXC-49-DS-FFOR-CF-0053-REG	27 AUG 2014	15:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0053	FFOR-EXC-49-DS-FFOR-CF-0053-REG	27 AUG 2014	15:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0019

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 02 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 9/2/14 Time: 1630
1. Received By (Signature/Affiliation) — Date: 9/2/14 Time: 1630

2. Relinquished By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:

3. Relinquished By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID READINGS: FFOR-CF-0055/FFOR-CF-0054=11.8 ppm, FFOR-CF-0056=388 ppm, FFOR-CF-0057=35.4 ppm, FFOR-CF-0058=125 ppm, FFOR-CF-0059=1,530 ppm, FFOR-CF-0060 and MS/MSD=981 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0054	FFOR-EXC-50-DS-FFOR-CF-0054-REG	02 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0054	FFOR-EXC-50-DS-FFOR-CF-0054-REG	02 SEP 2014	08:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0055	FFOR-EXC-50-DS-FFOR-CF-0055-FD	02 SEP 2014	08:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0055	FFOR-EXC-50-DS-FFOR-CF-0055-FD	02 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0056	FFOR-EXC-51-DS-FFOR-CF-0056-REG	02 SEP 2014	11:03	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0019

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
						VOCs by SW846 8260B					
FFOR-CF-0056	FFOR-EXC-51-DS-FFOR-CF-0056-REG	02 SEP 2014	11:03	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0057	FFOR-EXC-52-DS-FFOR-CF-0057-REG	02 SEP 2014	15:04	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0057	FFOR-EXC-52-DS-FFOR-CF-0057-REG	02 SEP 2014	15:04	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0058	FFOR-EXC-53-DS-FFOR-CF-0058-REG	02 SEP 2014	15:10	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0058	FFOR-EXC-53-DS-FFOR-CF-0058-REG	02 SEP 2014	15:10	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0059	FFOR-EXC-54-DS-FFOR-CF-0059-REG	02 SEP 2014	15:15	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0059	FFOR-EXC-54-DS-FFOR-CF-0059-REG	02 SEP 2014	15:15	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060	FFOR-EXC-55-DS-FFOR-CF-0060-REG	02 SEP 2014	15:58	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0060	FFOR-EXC-55-DS-FFOR-CF-0060-REG	02 SEP 2014	15:58	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060-MS	FFOR-EXC-55-DS-FFOR-CF-0060-MS-M	02 SEP 2014	15:58	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060-MS	FFOR-EXC-55-DS-FFOR-CF-0060-MS-M	02 SEP 2014	15:58	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0060-MSD	FFOR-EXC-55-DS-FFOR-CF-0060-MSD-	02 SEP 2014	15:58	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0060-MSD	FFOR-EXC-55-DS-FFOR-CF-0060-MSD-	02 SEP 2014	15:58	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-21

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 04 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ———

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 9/4/14 Time: 1640
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 9/4/14 Time: 1640
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0063 = 2.6 ppm, FFOR-CF-0064 = 3.9 ppm, FFOR-CF-0065 = 0.3 ppm, FFOR-CF-0066 = 0.3 ppm, FFOR-CF-0067 = 1.5 ppm, FFOR-CF-0068 = 1.1 ppm, FFOR-CF-0069 = 129 ppm, FFOR-CF-0070 = 808 ppm, FFOR-CF-0070-MS = 808 ppm, FFOR-CF-0070-MSD = 808 ppm, FFOR-CF-0071 = 51.7 ppm

QCed 09/04/14

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
✓ FFOR-CF-0063	FFOR-EXC-58-DS-FFOR-CF-0063-REG	04 SEP 2014	08:42	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
✓ FFOR-CF-0063	FFOR-EXC-58-DS-FFOR-CF-0063-REG	04 SEP 2014	08:42	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
✓ FFOR-CF-0064	FFOR-EXC-59-DS-FFOR-CF-0064-REG	04 SEP 2014	08:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
✓ FFOR-CF-0064	FFOR-EXC-59-DS-FFOR-CF-0064-REG	04 SEP 2014	08:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
✓ FFOR-CF-0065	FFOR-EXC-60-DS-FFOR-CF-0065-REG	04 SEP 2014	09:00	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-21

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					
FFOR-CF-0065	FFOR-EXC-60-DS-FFOR-CF-0065-REG	04 SEP 2014	09:00	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0066	FFOR-EXC-60-DS-FFOR-CF-0066-FD	04 SEP 2014	09:00	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0066	FFOR-EXC-60-DS-FFOR-CF-0066-FD	04 SEP 2014	09:00	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0067	FFOR-EXC-61-DS-FFOR-CF-0067-REG	04 SEP 2014	09:30	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0067	FFOR-EXC-61-DS-FFOR-CF-0067-REG	04 SEP 2014	09:30	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0068	FFOR-EXC-62-DS-FFOR-CF-0068-REG	04 SEP 2014	11:12	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0068	FFOR-EXC-62-DS-FFOR-CF-0068-REG	04 SEP 2014	11:12	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0069	FFOR-EXC-63-DS-FFOR-CF-0069-REG	04 SEP 2014	14:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0069	FFOR-EXC-63-DS-FFOR-CF-0069-REG	04 SEP 2014	14:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0070	FFOR-EXC-64-DS-FFOR-CF-0070-REG	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0070	FFOR-EXC-64-DS-FFOR-CF-0070-REG	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0070-MS	FFOR-EXC-64-DS-FFOR-CF-0070-MS-M	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0070-MS	FFOR-EXC-64-DS-FFOR-CF-0070-MS-M	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0070-MSD	FFOR-EXC-64-DS-FFOR-CF-0070-MSD-	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0070-MSD	FFOR-EXC-64-DS-FFOR-CF-0070-MSD-	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0071	FFOR-EXC-65-DS-FFOR-CF-0071-REG	04 SEP 2014	14:54	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0071	FFOR-EXC-65-DS-FFOR-CF-0071-REG	04 SEP 2014	14:54	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-22

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 05 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ———

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X | Flammable | Skin Irritant | Poison B | Unknown | Radiological

Sample Disposal:
Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 9/5/14 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 9/5/14 Time: 1600
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0072 = 1,357 ppm, FFOR-CF-0073 = 43.1 ppm, FFOR-CF-0084 and FFOR-CF-0085 = 13.2 ppm, FFOR-CF-0074 = 2,698 ppm, FFOR-CF-0075 = 9.7 ppm, FFOR-CF-0076 and FFOR-CF-0077 = 33.3 ppm, FFOR-CF-0111 = 4.4 ppm, FFOR-CF-0112 = 7.0 ppm, FFOR-CF-0113 = 19.3 ppm

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
X	FFOR-CF-0072	FFOR-EXC-66-DS-FFOR-CF-0072-REG	05 SEP 2014	08:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0072	FFOR-EXC-66-DS-FFOR-CF-0072-REG	05 SEP 2014	08:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0073	FFOR-EXC-67-DS-FFOR-CF-0073-REG	05 SEP 2014	09:05	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0073	FFOR-EXC-67-DS-FFOR-CF-0073-REG	05 SEP 2014	09:05	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0074	FFOR-EXC-68-DS-FFOR-CF-0074-REG	05 SEP 2014	11:16	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-22

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								VOCs by SW846 8260B					
X	FFOR-CF-0074	FFOR-EXC-68-DS-FFOR-CF-0074-REG	05 SEP 2014	11:16	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0075	FFOR-EXC-69-DS-FFOR-CF-0075-REG	05 SEP 2014	13:19	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0075	FFOR-EXC-69-DS-FFOR-CF-0075-REG	05 SEP 2014	13:19	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0076	FFOR-EXC-70-DS-FFOR-CF-0076-REG	05 SEP 2014	13:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0076	FFOR-EXC-70-DS-FFOR-CF-0076-REG	05 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0077	FFOR-EXC-70-DS-FFOR-CF-0077-FD	05 SEP 2014	13:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0077	FFOR-EXC-70-DS-FFOR-CF-0077-FD	05 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0084	FFOR-EXCSO-07-SO-FFOR-CF-0084-RE	05 SEP 2014	09:13	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
X	FFOR-CF-0085	FFOR-EXCSO-07-SO-FFOR-CF-0085-FD	05 SEP 2014	09:13	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
X	FFOR-CF-0111	FFOR-EXC-71-DS-FFOR-CF-0111-REG	9/5/14	1346	5g terraCore	1	"	TPH GRO, VOCs			N		
X	"	"	9/5/14	1346	8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		
X	FFOR-CF-0112	FFOR-EXC-72-DS-FFOR-CF-0112-Reg	9/5/14	1355	5g terraCore	1	"	TPH GRO, VOCs			N		
X	"	"	9/5/14	1355	8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		
X	FFOR-CF-0113	FFOR-EXC-73-DS-FFOR-CF-0113-Reg	9/5/14	1440	5g terraCore	1	"	TPH GRO, VOCs			N		
X	"	"	9/5/14	1440	8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-24

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 10 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/10/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/10/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: 186 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0089	FFOR-EXCSO-11-SO-FFOR-CF-0089-RE	10 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-25
Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 11 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ←

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☒ Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 9/11/14 Time: 1630
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 9/11/14 Time: 1632
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments: PID HEADSPACE: 0.3 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
• FFOR-CF-0090	FFOR-EXCSO-12-SO-FFOR-CF-0090-R(	11 SEP 2014	07:56	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-26

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr
24 if possible

Samples Shipment Date: 16 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/16/14 Time: 0840	1. Received By (Signature/Affiliation)	Date: 9/16/14 Time: 0840
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0091 = 0.0 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0091	FFOR-EXCSO-13-SO-FFOR-CF-0091-RE	16 SEP 2014	07:40	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-EXCSO-23

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 08 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ←

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-Hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/8/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/8/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: FFOR-EXCSO-08 = 2.3 ppm, FFOR-EXCSO-09 = 1.9 ppm, FFOR-EXCSO-10 = 92.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0086	FFOR-EXCSO-08-SO-FFOR-CF-0086-RE	08 SEP 2014	09:38	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0087	FFOR-EXCSO-09-SO-FFOR-CF-0087-RE	08 SEP 2014	11:12	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		
FFOR-CF-0088	FFOR-EXCSO-10-SO-FFOR-CF-0088-RE	08 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-002

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 03 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ~~—————~~

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 9/3/14 Time: 1630
1. Received By (Signature/Affiliation) Date: 9/3/14 Time: 1630
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments: PID: FFOR-CF-0083=175 PPM, FFOR-CF-0061=29.8 PPM, FFOR-CF-0062=894 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0061	FFOR-EXC-56-DS-FFOR-CF-0061-REG	03 SEP 2014	12:04	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0061	FFOR-EXC-56-DS-FFOR-CF-0061-REG	03 SEP 2014	12:04	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0062	FFOR-EXC-57-DS-FFOR-CF-0062-REG	03 SEP 2014	12:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0062	FFOR-EXC-57-DS-FFOR-CF-0062-REG	03 SEP 2014	12:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0083	FFOR-EXCSO-06-SO-FFOR-CF-0083-RE	03 SEP 2014	08:28	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level -			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-002

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
						SIM)					

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	6	19	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Accompany on-point surveying/check sample supplies

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing. Start paperwork.
0735 - Go through Sampling Supplies. Call Joe Gonzales at On-Point.
1000 - Call with Safety crew about red sheet.
1100 - Meet Mike with Hall environmental @ Truman Gate to pick up coolers with samples. Unload at trailer. Check coolers
1205 - Drive to ~~field trailer~~ ISK office.
1315 - Drive back to field trailer, wait for surveyor
1415 - Meet Joe with On-Point at field trailer, do safety briefing with Mike Castilla.
1428 - Go out to site with Joe Gonzales begin survey.
1548 - Finish survey. Return to trailer.
1557 - Check SCL6 and labels in Shaw view. They need work.
1640 - Finish at field trailer and leave.

6/19/14

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
Joe Gonzales On-Point	None
WEATHER CONDITIONS: Clear and hot	IMPORTANT TELEPHONE CALLS: lots of calls, none important

CB&I PERSONNEL ON SITE: Tara Kunkel, the rest of the BFF crew

SIGNATURE: Tara Kunkel DATE: 6/19/14

dmfreeman@hallenvironmental.com

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	6	20	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Sample backfill material for FFOR excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0800 - Arrive at field trailer and get sampling supplies and paperwork ready. Talk to Kab.
0930 - Safety brief.
0958 - Head to landfill site. Talk to Nate in office
1045 - Collect backfill sample. Head back to field trailer
1110 - Package sample and finish paperwork.
1145 - Meet Hall Idbs (Mike) at Truman gate to relinquish sample. Return to office.

6/20/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot

IMPORTANT TELEPHONE CALLS:

None important

CB&I PERSONNEL ON SITE: Tara Kunkel

SIGNATURE: Tara Kunkel DATE: 6/20/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	1
CM: Todd Hiltunen	Date: 6/23/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111			Work Areas
CON #:	W912DY-10-D-0014/DO-0002	Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor	MIN Temp	65	MAX Temp	92	Rain / Snow / (Other)
Morning Weather	Partly Cloudy		Afternoon Weather		Partly Cloudy	
Off Site Due to Rain.	NONE					
SAFETY MEETING TOPIC:	Mobilization/Hot Weather/Slips, Trips & Falls					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	15

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE:	35
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	0
TOTAL WORK HOURS ON JOBSITE TO DATE:	35

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of a rental vehicle from National Car Rental 06/22/14
		Dispatched CB&I Truck #101977 to the field crew until rental truck from United Rentals arrives onsite

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	National	Rental Car	10
	CB&I	Pickup Truck #101975	10
	CB&I	Pickup Truck #101977	5

Soil Transported Offsite:		Total to Date:	
Backfill Transported Onsite:		Total to Date:	

Schedule Activity No.	
	CBI:
	Mobilization of Equipment and Materials began today.
	High Mesa is scheduled to be onsite tomorrow 06/24/14 to layout the grid locations, the location of the abandoned utilities and offsets for the
	excavation efforts.

6/23/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	2
CM: Todd Hiltunen	Date: 6/24/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111			Work Areas
CON #:	W912DY-10-D-0014/DO-0002	Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor	MIN Temp	66	MAX Temp	92	Rain / Snow / (Other)
Morning Weather	Mostly Sunny		Afternoon Weather		Mostly Sunny	
Off Site Due to Rain.	NONE					
SAFETY MEETING TOPIC:	Mobilization/Heavy Lifting/Buddy System					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	13
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	30
	Site Survey, Site Layout, Offsets and Suspect Utilities Locates	High Mesa	2	Surveyors	14

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE:	67
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	35
TOTAL WORK HOURS ON JOBSITE TO DATE:	102

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA
	SSHO reviewed the HASP with the additional CB&I employees
	Met onsite with Patrice McEahern (CB&I) and reviewed project tasks and the Red Sheet issues

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		High Mesa Truck & Survey Equipment
		Took delivery of a Kobelco 210 Excavator and a 2000 Gallon Water Truck from Ahern Equipment Rentals

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	National	Rental Car	10
	CB&I	Pickup Truck #101975	10
	CB&I	Pickup Truck #101977	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	0
	High Mesa	Truck & Survey Equipment	7.5

Soil Transported Offsite:		Total to Date:	
Backfill Transported Onsite:		Total to Date:	

Schedule Activity No.	
	CBI:
	Mobilization of Equipment and Materials continued today.
	Base personel were onsite and cut the northern end of the overhead phone line assuring that the line is de-energized.
	High Mesa:
	Performed layout of the boreholes needing to be excavated, placed offset stakes for future layout of the excavations and located the approximate
	location of the suspect buried utilities within the excavation area.

6/24/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	3
CM: Todd Hiltunen	Date: 6/25/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111			Work Areas
CON #:	W912DY-10-D-0014/DO-0002	Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor	MIN Temp	65	MAX Temp	93	Rain / Snow / (Other)
Morning Weather	Mostly Sunny		Afternoon Weather		Mostly Sunny	
Off Site Due to Rain.	NONE					
SAFETY MEETING TOPIC:	Mobilization/Heavy Lifting/Buddy System/Equipment & Vehicle Traffic					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	30
	Safety Briefing Site Specific FFOR Excavation	CBI	1	Geologist	2
	Safety Briefing Site Specific FFOR Excavation	CBI	1	Technician	2

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE:	54
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	102
TOTAL WORK HOURS ON JOBSITE TO DATE:	156

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA
	Conducted Site Specific review of Work Plan, APP Etc for the FFOR Excavation

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (1) Pickup Truck, (1) Front End Loader and (2) 5 CY End Dump Trucks from United Equipment Rentals

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	National	Rental Car	7
	CB&I	Pickup Truck #101975	10
	CB&I	Pickup Truck #101977	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	0
	United	Front End Loader	4
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	3

Soil Transported Offsite:		Total to Date:	
Backfill Transported Onsite:		Total to Date:	

Schedule Activity No.	
	CBI:
	Mobilization of Equipment and Materials continued today.
	Began construction of a lined cell to relocate the Air Force owned SVE units
	Excavated down and located the SVE piping buried within the footprint of the FFOR excavation
	Hand excavated rtying to locate the suspect buried utilities within the footprint of the FFOR excavation
	Returned the rental car to National Car Rental

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 6/25/2014 Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	4
CM: Todd Hiltunen	Date: 6/26/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111			Work Areas
CON #:	W912DY-10-D-0014/DO-0002	Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor	MIN Temp	63	MAX Temp	97	Rain / Snow / (Other)
Morning Weather	Mostly Sunny		Afternoon Weather		Mostly Sunny	
Off Site Due to Rain.	NONE					
SAFETY MEETING TOPIC:	Mobilization/Heavy Lifting/Pinch Points/Equipment & Vehicle Traffic					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	30

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO

TOTAL WORK HOURS ON JOB SITE THIS DATE:	50
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	156
TOTAL WORK HOURS ON JOBSITE TO DATE:	206

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (1) Pickup Truck from United Equipment Rentals
		Took delivery of the rental retrieval system from HAZCO

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	CB&I	Pickup Truck #101977	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	0
	United	Front End Loader	4
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	3
	HAZCO	Emergency Retrieval System	0

Soil Transported Offsite:		Total to Date:	
Backfill Transported Onsite:		Total to Date:	

Schedule Activity No.	
	CBI:
	Mobilization of Equipment and Materials continued today.
	Purchased additional safety materials
	Took delivery of the rental retrieval system
	Began setting up safety fence and project boundries
	Ordered temporary fencing to be installed across the yard of the northern excavation area

6/26/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**5**		
CM:	**Todd Hiltunen**	**Date:**	**6/27/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**			**Work Areas**	
CON #:	**W912DY-10-D-0014/DO-0002**	**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**	
SITE CONDITIONS:	**Good / Fair / Poor**	**MIN Temp**	**72**	**MAX Temp**	**92**	**Rain / Snow / Other**	
Morning Weather	**Mostly Sunny**			**Afternoon Weather**	**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Mobilization/Heavy Lifting/Pinch Points/Equipment & Vehicle Traffic/Subcontractor Activity**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	30
	Installation of Temporary Fencing	Scott's	2	Laborers	4

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	

TOTAL WORK HOURS ON JOB SITE THIS DATE:	54
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	206
TOTAL WORK HOURS ON JOBSITE TO DATE:	260

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of 300 LF of temporary fencing to enclose the northern excavation area from Scott's Fence Company

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	0
	United	Front End Loader	0
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24

Soil Transported Offsite:		**Total to Date:**	
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Mobilization of Equipment and Materials continued today.
	Purchased additional safety materials
	Installed signage along temporary fence
	Scott's Fencing:
	Installed the 300 LF of temporary fence to enclose the east side of the northern excavation area.

CONTRACTOR/SUPERINTENDENT — 6/27/2014 Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**6**		
CM:	**Todd Hiltunen**	**Date:**	**6/30/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**100**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation and Stockpiling/Sample Collection/Heavy Equipment**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Moblization of Equipment and Materials	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **260**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **330**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of a Cat 320 Excavator w/Plate Compactor from Worldwide Equipment Rentals

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	10
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	5
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0

Soil Transported Offsite:		**Total to Date:**	
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Performed layout of the shallow grids (0'-5') bgs.
	Filled sandbags and constructed a poly laydown are for the contaminated soil stockpile
	Excavated boreholes #DP016, #DP017 and DP035 TO 5' bgs and collected the required sidewall and floor soil samples.
	Excavated borehole #DP044 to 5' bgs and collected required sidewall soil samples. Continued excavating to 8.5' bgs and stopped due to time
	Encountered an abandoned power conduit while excavating DP035 and DP044. The conduit was rusted through and had no conductors in it.
	Crew covered the stockpile with poly sheeting and fenced off all of the open excavations.

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 6/30/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	6	30	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: FFOR Excavation Activities | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Soil sampling and excavation documentation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief, get supplies together for sampling activities.
0800 - Go to home depot, buy ladder.
0840 - Return to site, operators begin digging at DP016 and 17.
0930-1100 - prepare sampling equipment and collect three wall samples at 2.5 ft. Collect floor sample at 5 ft bgs.
1111 - Begin Digging DP-035
1143 - Start sampling in DP-035. Collect 2 sidewall samples at 2.5 ft. On going dust supression with water truck with the excavation area and bucket.
1300 - Test relic electric line found at 2.5 ft in BP-035. Conduit is empty anyway. Pull out with excavator bucket. Dig to total depth.
1330 - Move dirt pile from removing SVE manifold.
1400 - Begin digging DP044.
1435 - Sample 2 sidewall samples in DP044. Continue excavation to 10 ft bgs in DP044.
1520 - Drive back to trailer begin shipping samples.
1635 - Lindsy drives to gate to give samples to Hall.
1645 - Finish paperwork.

Tara Kunkel 6/30/14

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None	None
WEATHER CONDITIONS: Clear and hot, very hot	IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: Tara Kunkel, Louie Glick, Mike Castillo, Todd Hiltunen, Henry, Allen, Gary

SIGNATURE: Tara Kunkel DATE: 6/30/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**7**		
CM:	**Todd Hiltunen**	**Date:**	**7/1/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**71**	**MAX Temp**	**92**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation and Stockpiling/Sample Collection/Heavy Equipment**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation & Stockpiling	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **330**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **400**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	10
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	10
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0

Soil Transported Offsite:		**Total to Date:**	
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Continued with excavation of the grid locations in the northern excavation area
	Excavated the remaining soil from borehole #DP044 TO 10' bgs. Collected floor soil sample from the excavation
	Relocated to borehole #DP-054. Excavated to a depth of 5' bgs and collected sidewall soil samples. Excavated to finish depth of 10' bgs and
	collected the floor sample. H&S manager onsite performed air monitoring throughout the excavation and sampling activities. Self retracting
	life lines were used to gain samples from the top of the excavation along with an emergency retrieval system.
	Benched the 5' excavations prior to entering them for sample collection.
	Filled additional sand bags and placed poly sheeting to construct additional contaminated soil stockpiles.
	Secured the stockpiles with poly and sandbags and installed security fence around the open excavations.

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — Date: 7/1/2014

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	1	14
	NO.	140705		
	SHEET	1 OF 1		

KAFB BFF FFOR

PROJECT NAME: ~~Excavation and soil Sampling~~ PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation and soil sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting
0740 - Get together Sampling supplies and equipment
0805 - Prepare fall protection equipment and air monitoring equipment. Verified that safety office did not review manufacturer instructions for assembly, step back to review and correct.
0940 - Collect sample from DP044 bottom at 10 ft bgs.
1000 - Begin digging DP054 to 5 ft bgs, bench long sides.
1114 - Start sampling DP054 with four wall samples at 5 ft. Benzene and LEL monitoring ongoing. Dust suppression on going.
1300 - FFOR status call
1400 - Begin sampling floor at DP054 with jar on PVC pipe. Continue dust suppression, Use fall protection to collect sample and GPS point.
1433 - Begin shipping procedures. Create paperwork, QC samples, package samples.
1550 - Deliver samples to Hall at Truman gate, return to field trailer to finish paperwork
1700 - Secure equipment, leave site.

7/1/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot, very hot in pm
windy in morning and early afternoon

IMPORTANT TELEPHONE CALLS:

None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, M. Castillo, Allen, Henry, Gary

SIGNATURE: T Kunkel DATE: 7/1/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**8**		
CM:	**Todd Hiltunen**	**Date:**	**7/2/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**67**	**MAX Temp**	**88**	**Rain / Snow / (Other)**
Morning Weather	**Cloudy**		**Afternoon Weather**		**Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation and Stockpiling/Sample Collection/Heavy Equipment/Possible Thunder Storms**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation & Stockpiling	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **400**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **470**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	10
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	10
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
			0
			0

Soil Transported Offsite:		**Total to Date:**	
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Filled additional sandbags and placed additional poly sheeting for stockpile construction
	Moved all excavation equipment to the southern excavation area. Placed plywood on the asphalt roads within the BFF to protect them from the tracked equipment.
	Setup and excavated borehole #DP193 to a depth of 5' bgs and collected sidewall soil samples. Benched the excavation prior to entry and H&S conducted air monitoring throughout the excavation and sampling efforts. Completed the excavation to 10' bgs and collected a floor soil sample using the retractable life line and retrieval system. Installed security fence around the open excavation.
	Hauled excavated soil to the stockpile in the northern excavation area. Sprayed water as needed to control fugitive dust.
	Excavated borehole #DP201 to a depth of 5' bgs and benched the walls prior to entry for sample collection. H&S conducted air monitoring prior to sidewall and floor sample collection.
	Fenced the open excavation off with security fence and T-posts. Hauled excavated soils to the northern excavation area stockpile.
	Covered stockpiles and secured the entire project site.
	USACE was onsite throughout the sampling of DP193 and the excavation of DP201.

CONTRACTOR/SUPERINTENDENT — 7/2/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	2	14
	NO.	140705		
	SHEET #	1	OF	1

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation and soil sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting
0740 - Gathered sampling materials.
0830-0930 - Moved Equipment to southern areas utilizing plywood for surface protection. On going dust suppression.
0945 - Help drain Deisel tank and fit new one.
1100 - Begin excavation at DP193.
1130 - Collect 4 side wall samples in DP193. Ongoing benzene monitoring and PID in excavation.
1200 - Finish excavation to 10 ft.
1230 - Begin collecting floor sample. TSK 7/2/14
1250 - Erect fence around DP193.
1405 - Begin Excavation at DP201
1508 - Begin Sampling at DP201. 4 sidewall, 1 bottom
1545 - Begin Shipping Procedures.
1645 - Louie meets lab at Truman gate with samples.
1645 - Finish paperwork.
1715 - Done with pur. Leave Site

7/2/14

VISITORS ON SITE: Mark Phament (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear and hot, high 90° F

IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, L. Glick, Allen, Gary, Henry

SIGNATURE: T. Kunkel DATE: 7/2/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**9**		
CM:	**Todd Hiltunen**	**Date:**	**7/3/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**61**	**MAX Temp**	**91**	**Rain / Snow / (Other)**
Morning Weather	**Cloudy**		**Afternoon Weather**		**Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation and Stockpiling/Sample Collection/Heavy Equipment/Possible Thunder Storms**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation & Stockpiling	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **470**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **540**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	5
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	5
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	5
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0

Soil Transported Offsite:		**Total to Date:**	
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Filled additional sandbags and placed additional poly sheeting for stockpile construction
	Excavated borehole #DP201 to a depth of 5' bgs and benched the walls prior to entry for sample collection. H&S conducted air monitoring prior to
	sidewall and floor sample collection.
	Fenced the open excavation off with security fence and T-posts. Hauled excavated soils to the northern excavation area stockpile.
	Covered stockpiles and secured the entire project site.
	Purchased additional fence and T-posts
	Ordered rigging for trench boxes
	Took delivery of the trench box fall protection anchor points
	Schedule with Rhino for the T&D of the contaminated soil to begin on Monday 07/07/14

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — Date: 7/3/2014

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	3	14
	NO.	140705		
	SHEET # 1 OF			

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation at FFOR and soil sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing.
0720 - Gather sampling materials.
0800 - GPS excavation boundaries on DP044, DP054, DP035, DP193, and DP201, DP016, and DP017.
0840 - Talk to Rachel Hobbs about sample locations, backfill, and USACE visit.
0900 - Begin excavation at DP362. Dust suspresion ongoing. Passive air monitoring ongoing.
0930 - Begin sample collection at DP362 collect 1 wall sample at 2.5 ft. No Fall protection required because only 2.5 ft decent.
0955 - Clasify soil type for excavation permit
1030 - Return to trailer begin shipping
1130 - Deliver sample to Hall Analytical labs.
1200 - Return to trailer and finish paperwork.
1230 - End field day.

T. Kunkel
7/3/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot

IMPORTANT TELEPHONE CALLS:

None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Click, T. Hiltunen, Henry, Allen, Gary

SIGNATURE: T. Kunkel DATE: 7/3/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**10**		
CM:	**Todd Hiltunen**	**Date:**	**7/7/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**65**	**MAX Temp**	**92**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Loadout	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20
	T&D of Contaminated Soils	Rhino	1	Truck Driver	5

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **75**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **540**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **615**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (1) 5'x20'x20' and (1) 10'x20'x20' trench box system w/end shielding from Trench Shoring Services

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**18.7 Tons**	**Total to Date:**	**18.7 Tons**
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Took delivery of the trench boxes from Trench Shoring Services
	Began T&D of the contaminated soil. Rhino was onsite and hauled a total of (1) load to the Valencia Landfill
	Began erecting the trench boxes
	Performed site and stockpile maintenance

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/7/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	7	2014
	NO.	140705		
	SHEET	# 1	OF	1

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation and Soil Sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety Briefing.
0740 - Truck inspection on 101829
0830 - Inspected stockpiles, integrety check for 5 and 10 foot excavations
0910 - Inventory sample Supplies.
1000 - Do paperwork at trailer.
1030 - Bag ice for groundwater samples.
1145 - DB talent connection training.
1230 - Create SCLs for waste water samples
1400 - Go to KAFB active landfill to collect 2 5-gallon bucket samples to deliver to AMEC for geotechnical testing.
1458 - Drive to AMEC to drop off backfill soil for proctor testing.
1630 - Return to trailer to finish paperwork.
1700 - End field time.

7/7/14

VISITORS ON SITE: USACE (Mark Phenuf, Steven Carpender)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear and hot, very

IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, Henry, Gary, Allen

SIGNATURE: [signature] DATE: 7/7/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**11**		
CM:	**Todd Hiltunen**	**Date:**	**7/8/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**93**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Loadout	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20
	T&D of Contaminated Soils	Rhino	3	Truck Driver	30

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **100**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **615**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **715**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of the remaining end shielding from Trench Shoring Services

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**154.9 Tons**	**Total to Date:**	**173.6 Tons**
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Took delivery of the remaining trench box end shielding from Trench Shoring Services
	Continued T&D of the contaminated soil. Rhino was onsite and hauled a total of (7) loads to the Valencia Landfill
	Performed site and stockpile maintenance

7/8/2014

COMBINED FORM 01450-1 (9/98) — CONTRACTOR/SUPERINTENDENT — Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	8	14
	NO.	140705		
	SHEET	~~0~~ 1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation and soil sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0706 - Safety briefing.
0740 - Operator crew goes to setup trench boxes.
0800 - Show Walter Migdal around site.
0840 - Go to DMRO to watch truck weighing for waste profiling. to landfill.
0922 - Inspect soil piles and safety fencing.
1000 - Webinar for CMS training at field trailer.
1030 - Show Mike Amdurer around excavation site.
1300 - Do paperwork at trailer. Drive to scale, watch weighing.
13:00 - FFOR status call.
1:42 - Plan FFOR stepouts.
1440 - Check sample data for all excavated locations
1520 - Help with groundwater shipping.
1609 - Clean out truck organize supplies.
1700 - End field day, leave site.

L. Kunkel 7/8/14

VISITORS ON SITE:
- Martin Carpender (Steve) USACE
- Mike Amdurer
- Walt Migdal

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
USACE needs to review

WEATHER CONDITIONS
Clear and hot, very hot
- hotter than normal in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, A. Trench, Henry, G. McCutchen

SIGNATURE: L. Kunkel DATE: 7/8/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**12**		
CM:	**Todd Hiltunen**	**Date:**	**7/9/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**66**	**MAX Temp**	**89**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Loadout	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20
	T&D of Contaminated Soils	Rhino	3	Truck Driver	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **90**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **715**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **805**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of handrail brackets for trench boxes from Trench Shoring Services

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	

Schedule Activity No.	
	CBI:
	Took delivery of the trench box guardrail brackets from Trench Shoring Services
	Continued T&D of the contaminated soil. Rhino was onsite and hauled a total of (5) loads to the Valencia Landfill
	Performed site and stockpile maintenance

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/9/2014 Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	7	9	14
	NO.	140705		
	SHEET #	1	OF	1

PROJECT NAME: KAEB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing. Tailgate meeting. Todd escorts USACE on site tour.
0720 - First belly Dump arrives to haul soil.
0730 - Second belly dump arrives to haul soil. Do email replies.
0900 - Third dump truck arrives to haul soil.
0920 - Third dump goes to scale to be weighed.
0930 - Do passive air monitoring at soil stockpile location. 0.0 ppm on both benzene PID and w gas PID.
1000 - Drive to Grainger for supplies.
1130 - Return to field trailer and unload. 2 more trucks come to haul soil to Valencia.
1200 - Help with water sampling.
1445 - Return to trailer. Print signage for excavations.
1600 - Hang signs on excavation areas.
1700 - Finish paperwork. End field day.

7/9/14

VISITORS ON SITE:
USACE (Martin Carpender), Tom Garcia, Richard Buttz

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot, cloudy in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, L. Click, H. Stickler, C. McCutcheon, A. Troch

SIGNATURE:

DATE: 7/9/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**13**		
CM:	**Todd Hiltunen**	**Date:**	**7/10/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**66**	**MAX Temp**	**91**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic/Borrow Source Activities**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **805**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **875**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Purchased remaining materials to construct trench box guardrails

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	5
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**46.8 Tons**	**Total to Date:**	**46.8 Tons**

Schedule Activity No.	
	CBI:
	Purchased remaining trench box guardrail materials
	Began hauling backfill material from the borrow source at the KAFB landfill. Hauled (6) Loads
	Performed site maintenance

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/10/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	10	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0645 - Arrive at field office.
0700 - Safety briefing and tailgate meeting.
0730 - Truck inspection.
0745 - Inspect signage and excavations.
0830 - Work on planning samples for Stepouts.
0945 - Pickup ice at the exchange.
1050 - Finish sample planner, answer email.
1140 - Call Susan and Tim about FFOR stepouts.
1300 - Todd and Operator go to KAFB landfill to begin hauling clean backfill. 6 loads soil hauled, ~30 YD total.
1330 - Help with vapor shipping.
1430 - Call to resolve USACE comments on FFOR excavation job.
1520 - End call with USACE.
1530 - Check sampling equipment.
1600 - Help with groundwater shipping.
1700 - Finish paperwork. End field day.

7/10/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot, slightly breezy

IMPORTANT TELEPHONE CALLS:

Call with USACE to resolve FFOR questions

CB&I PERSONNEL ON SITE:

SIGNATURE:

DATE: 7/10/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**14**		
CM:	**Todd Hiltunen**	**Date:**	**7/11/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**93**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic/Borrow Source Activities**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	1	Geologist	10

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **60**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **875**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **935**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**101.4 Tons**	**Total to Date:**	**148.2 Tons**

Schedule Activity No.	
	CBI:
	Continued hauling backfill from the borrow source at the KAFB landfill. Hauled (13) loads this date.
	Continued with site maintenance making repairs to the fencing around the open excavations

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/11/2014 Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**15**		
CM:	**Todd Hiltunen**	**Date:**	**7/14/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**63**	**MAX Temp**	**91**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Loadout/Heavy Equipment/Vehicle Traffic/Borrow Source Activities**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **935**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1005**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**148.2 Tons**	**Total to Date:**	**296.4 Tons**

Schedule Activity No.	
	CBI:
	Continued hauling backfill from the borrow source at the KAFB landfill. Hauled (19) loads this date.
	Continued with site maintenance making repairs to the fencing around the open excavations

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/14/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG	DATE	7	14	14
	NO.	140705		
	SHEET	1 OF		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety and tailgate meetings at trailer.
0745 - Check email, start paperwork.
0804 - Begin inspection of signage, barricades, and excavation areas. Rest of excavation crew goes to landfill to begin hauling clear landfill.
0845 - Call Amec. Call grainger. Review QAPjP for soil sample details.
1030 - Call with management team about step-out depth and sample locations.
1100 - Write text for work plan that explains step-outs procedures.
1150 - Go to grainger and UPS store.
1245 - Return to field trailer. USACE visits site.
1300 - Talk to Hall Environmental.
1330 - Continue review QAPjP. Catch up paperwork.
1520 - Drive to KAFB active landfill. Observe backfill transport operations.
1545 - Return to field trailer. Catch up paperwork.
1620 - Hang confined space signage on excavations.
1700 - Finish paperwork. End field time.

7/14/14

VISITORS ON SITE:
Martin Carpender, Mark Phaneuf (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ warm, partly cloudy in AM

IMPORTANT TELEPHONE CALLS:
none important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, L. Click, G. McCutcheon, Henry, Allen

SIGNATURE:

DATE: 7/14/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**16**		
CM:	**Todd Hiltunen**	**Date:**	**7/15/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:		**Good / Fair / Poor**	**MIN Temp**	**62**	**MAX Temp**	**81**	**Rain / Snow / Other**
Morning Weather		**Partly Cloudy/Cooler**		**Afternoon Weather**		**Partly Cloudy/Cooler**	
Off Site Due to Rain.		**NONE**					
SAFETY MEETING TOPIC:		**Soil Loadout/Heavy Equipment/Vehicle Traffic/Borrow Source Activities**					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1005**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1075**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**171.6 Tons**	**Total to Date:**	**468 Tons**

Schedule Activity No.	
	CBI:
	Continued hauling backfill from the borrow source at the KAFB landfill. Hauled (22) loads this date.
	Continued with site maintenance making repairs to the fencing around the open excavations

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/15/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG	DATE	7	15	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief and tailgate meeting
0753 - Inspect signage, fencing, and excavation integrity. Prepare to enhance fencing around open excavations. Crew goes to landfill to prepare to haul backfill.
0830 - Bag ice for shipping.
0905 - Pick up ice and fuel trucks.
0940 - Drop off supplies on site.
1005 - Drive to Landfill, observe backfill loading and hauling. Watch digging with front-end loader.
1110 - Return to field trailer, look through paperwork for purge logs. Call Amec about backfill testing.
1235 - Mike Amdurer and Tom Cooper arrive at field trailer for USACE meeting.
1255 - USACE arrives at KAFB BFF field trailer for meeting.
1315 - Adjust safety fencing around excavations.
1340 - Leave trailer, drive to Grainger.
1445 - Return to trailer with supplies.
1500 - FFOR Status call.
1545 - Complete safety fencing inside the BFF around excavations.
1630 - Finish paperwork at trailer.
1700 - End field day.

T. Kunkel
7/15/14

VISITORS ON SITE:
Tom Cooper, Mike Amdurer (CB&I)
Martin Carpender, Mark Phaneuf,
John McBee (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
—

WEATHER CONDITIONS
~~Clear and hot~~ Cloudy and rainy in AM; Cloudy in PM, Sunny in late PM

IMPORTANT TELEPHONE CALLS:
USACE call @ 1 pm

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, L. Glick, G. McCutcheon, A. Troch, H. Stevens

SIGNATURE: T. Kunkel DATE: 7/15/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	17
CM: Todd Hiltunen	Date: 7/16/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111				Work Areas
CON #:	W912DY-10-D-0014/DO-0002		Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor		MIN Temp	61	MAX Temp	86	Rain / Snow / (Other)
Morning Weather	Partly Cloudy/Cooler		Afternoon Weather		Partly Cloudy/Cooler		
Off Site Due to Rain.	NONE						
SAFETY MEETING TOPIC:	Soil Loadout/Heavy Equipment/Vehicle Traffic/Borrow Source Activities						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: 70
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: 1075
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: 1145
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10

Soil Transported Offsite:	105.48 Tons	Total to Date:	279.08 Tons
Backfill Transported Onsite:	156 Tons	Total to Date:	624 Tons

Schedule Activity No.	
	CBI:
	Continued hauling backfill from the borrow source at the KAFB landfill. Hauled (20) loads this date.
	Continued with site maintenance making repairs to the fencing around the open excavations
	Had a flat tire on one of the End Dump trucks midday

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/16/2014 Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	7	16	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate, JSA.
0720 - Safety community meeting to go over June issues and safety.
0800 - Inspect fencing, barricades and signage around open excavation areas. Operators go to KAFB active landfill to begin hauling backfill.
0855 - Return to field trailer, check and answer email. Todd continues rigging certification.
0920 - Work on LTAR report. Crew continues work at landfill.
1032 - USACE personnel come onto site, briefing at trailer. Backfill hauling continues from KAFB landfill.
1200 - Print SCLs and labels from export on field module for step-out samples. Begin using spotter for dump trucks inside laydown area.
1305 - Troubleshoot missing analytes on stepout samples.
1340 - Inventory sample supplies. Continue backfill hauling.
1430 - Talk to Hall Environmental about additional sample containers.
1439 - Continue working E Tim Roth on fixing the Shawview export for step out samples.
1520 - Hang additional signs on northern excavation area exclusion zone.
1630 - Lock down equipment, secure site, finish paperwork.
1700 - End field day.

7/16/14

VISITORS ON SITE:
USACE (Richard Buttz, Tom Garcia)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ cloudy, cool in AM
sunny, hot in PM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Click, T. Hilterman, G. McCutchen, A. Trocki, H. Stinde

SIGNATURE:

DATE: 7/16/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**18**		
CM:	**Todd Hiltunen**	**Date:**	**7/17/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**67**	**MAX Temp**	**90**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Suspended Loads**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Hauling Backfill from Borrow Source	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1145**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1215**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (20) Concrete Jersey Barriers from Southwest Safety
		Took delivery of a set of forks for the front end loader from United Equipment Rentals

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	8
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	0
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(20) Concrete Jersey Barriers	4
	United	Front End Loader Forks	4

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**156 Tons**	**Total to Date:**	**624 Tons**

Schedule Activity No.	
	CBI:
	Relocated the trench boxes to borehole #DP259
	Took delivery of the (20) Concrete Jersey Barriers and placed them around the open excavations of boleholes #DP193, #DP201 and #DP362
	Continued with site maintenance
	Continued to gather materials and supplies for the project

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/17/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	17	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate meeting.
0730 - Do vehicle inspection.
0745 - Do integrity inspection on excavations, barricades, and signage. Repair fencing.
0915 - Return to trailer and begin making excavation signs to replace destroyed ones, and put up some new ones.
1015 - Hang new signage on excavations.
1100 - Buy ice for groundwater shipping.
1120 - Begin to troubleshoot export file with Randy Dimeron.
1255 - Get off phone with Randy, most things fixed in export. First load of jersey barriers arrive (10 count).
1315 - Print labels for stepout samples.
1405 - Create path forward for Excavation.
1442 - Go through sample supplies. Second load of jersey barriers arrives (10 count).
1510 - Crew arranges jersey barriers around southern excavation areas
1647 - Return to field trailer, finish paperwork.
1700 - End field day.

7/17/14

VISITORS ON SITE:
Martin Carpenter (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM ; partly cloudy, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, C. Glick, H. Tracy, G. McCutcheon, H. Stevens.

SIGNATURE:

DATE: 7/17/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**19**		
CM:	**Todd Hiltunen**	**Date:**	**7/18/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:		**Good / Fair / Poor**	**MIN Temp**	**67**	**MAX Temp**	**92**	**Rain / Snow / Other**
Morning Weather		**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**	
Off Site Due to Rain.			**NONE**				
SAFETY MEETING TOPIC:			**Soil Excavation/Equipment Traffic/Suspended Loads/Trench Box Installation**				

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	1	Geologist	10

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **60**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1215**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1275**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (20) Concrete Jersey Barriers from Southwest Safety

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	10
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	5
	TSS	(1) Complete 10'x10'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**156 Tons**	**Total to Date:**	**624 Tons**

Schedule Activity No.	
	CBI:
	Setup and excavated borehole #DP259 down to 7.5' bgs. Erected emergency retrieval system and conducted air monitoring of the excavation as it
	was being dug. Sampled the sidewalls of the excavation from the top of the excavation. Excavated DP259 to final depth of 15' bgs and collected a
	floor sample. No trench box was used because the excavation walls remained intact and showed no signs of collapsing.
	Installed concrete barriers and flagging around the open excavation
	Relocated to borehole #DP213 and began excavation to 7.5' bgs. Achieved depth of 7.5' bgs, but the north wall collapsed. Excavated the collapsed
	soil and installed the trench box. No sampling was performed at this excavation. Installed concrete barriers and flagging around the open
	excavation.
	Transported all excavated soil to the northern excavation area and stockpiled it there on polysheeting.
	Covered the stockpile with polysheeting and performed maintenance of the site prior to shutdown.
	CB&I had a spotter in the stockpile area at all times when soil was being transported.

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/18/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	18	14
	NO.	140705		
	SHEET	1 OF	2	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation and soil sampling activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Daily safety meeting and tailgate at field trailer.
0720 - Prepare sampling equipment and supplies.
0735 - Prepare other equipment to begin operations. Prepare paperwork.
0800 - Operators set up rigging with Todd.
0815 - First load of jersey barriers arrive for the day (10 count). Offload and arrange on northern area fence.
0835 - Begin excavation at DP259. Spot drivers dumping soil in northern area laydown yard.
0935 - 7.5 ft reached on DP259
0948 - Begin sampling. Collect 3 wall samples at 7.5 feet.
1015 - Steve Carpender from USACE comes on site.
1030 - Continue excavation at DP259.
1130 - Total depth at DP259 reached at 15 ft.
1150 - Begin sampling. Collect floor with clean jar on PVC pipe. Move barricades back around DP259 and DP362.
1230 - Check email, catch up paperwork.
1325 - Crew moves jersey barriers around DP213.
1400 - Begin excavation at DP213. Spot for trucks in laydown area.
1445 - North wall on DP213 starts to crumble, crew stops to put in trench box and secure area.
1500 - Go to field trailer to ship, QC and log samples.
1600 - Lab picks up samples at trailer. Secure excavations and put up flagging and jersey barriers. Lock down equipment.
1700 - End field day.

7/18/14

VISITORS ON SITE:

USACE (Steve Carpender)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot in PM, clear and cool in AM

IMPORTANT TELEPHONE CALLS:

None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, A. Troch, G. McCatcheon, H. Stickle, M. Castillo

SIGNATURE: T. Kunkel

DATE: 7/18/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**20**		
CM:	**Todd Hiltunen**	**Date:**	**7/21/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**70**	**MAX Temp**	**95**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1275**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1345**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (1) additional 10'x20'x20' trench box from Trench Shoring Services

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	5
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	5
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	5
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(1) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**156 Tons**	**Total to Date:**	**624 Tons**

Schedule Activity No.	
	CBI:
	Performed maintenance check and repairs of the open excavation areas
	Moved the excavating equipment to the north excavation area.
	Excavated the additional soil from stepout area at DP016 and DP017
	Site H&S Manager was onsite conducting air monitoring and maintaining the Fall Protection equipment.
	Excavated soil was placed in the onsite stockpile for later T&D. Crew covered the stockpile with ploy sheeting .
	Took delivery of additional trench boxes

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/21/2014 Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
DATE	7	21	14
NO.	140705		
SHEET	# 1 OF 1		

PROJECT NAME: KAFB BEF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate meeting at trailer.
0730 - Drive to excavation areas to perform inspections and fix barricades.
0830 - Tie off and gps excavation boundaries at 213 and 259.
0900 - Move excavators from Southern area to northern laydown area while leapfrogging on plywood.
0950 - Gather sampling supplies.
1033 - Begin excavation at DP016 and DP017 for stepout.
1110 - Begin sampling stepout at DP016 and DP017.
1140 - Go to back to trailer, shut down excavation activities. David Aubrey works with Mike Amdurer and USACE to begin excavation activities again.
1230 - Make SCLs and labels.
1310 - Secure excavation site, awaiting resolution with CB&I management to continue work.
1445 - Ship FFOR Sample QC deliver to lab runner at 1530.
1600 - Secure equipment. Additional trench boxes delivered to site.
1700 - End field day.

7/21/14

VISITORS ON SITE:

USACE (Martin Carpenter, Mark Phanenf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

- CB&I shuts down excavation pending USACE resolution.

WEATHER CONDITIONS

Clear and hot in PM (partly cloudy and thunderstorms in AM)

IMPORTANT TELEPHONE CALLS:

- David calls Mike Amdurer excavation halted until resolution with USACE and CB&I management is reached.

CB&I PERSONNEL ON SITE: T. Kunkel, L. Click, T. Hiltunen, G. McCutcheon, A. Troch, H. Stickle

SIGNATURE:

DATE: 7/21/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**21**		
CM:	**Todd Hiltunen**	**Date:**	**7/22/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**72**	**MAX Temp**	**96**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Forklift Use**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	6
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **66**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1345**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1411**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description
		Took delivery of (1) additional 5'x10'x20' trench box from Trench Shoring Services
		Took delivery of a Komatsu PC-300 Excavator from Worldwide Equipment

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	6
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	10
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	0
	Worldwide	Komatsu PC-300 Excavator	0

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**156 Tons**	**Total to Date:**	**624 Tons**

Schedule Activity No.	
	CBI:
	Took delivery of additional trench boxes
	Consolidated the imported back fill stockpiles in to one pile
	Performed site maintenance throughout the site
	Purchased additional materials and equipment

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/22/2014 Date

FIELD ACTIVITY DAILY LOG

CB&I

DAILY LOG				
	DATE	7	22	14
	NO.	140705		
	SHEET	# 1 OF 1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at field trailer.
0747 - Perform excavation, barricade and sign inspections.
0824 - Call granger to fix supply reciepts.
0910 - Do expense reports for KAFB / FFOR supplies.
0950 - Go to granger and walmart for supplies. Heavy weight excavator arrives on site.
1130 - Return to field trailer, backup information from GPS unit. Crew (KSK 7/22/14) hauls backfill from KAFB active landfill on site to create consolidate more space.
1220 - Go to office to offload data from GPS and deliver to GIS. Catch up paperwork at office.
1500 - Return to field trailer. USACE still on site, excavation work still on hold pending resolution with USACE and CB&I management. Additional trench box delivered to site.
1536 - Help with groundwater shipment.
1620 - Safety personel manager, Mr. Robert Elfrink arrives on site to brief USACE and work on resolution of safety issues.
1635 - Secure site and equipment for end of work day.
1700 - End field day.

7/22/14

VISITORS ON SITE:
USACE (Mark Phaneuf and Martin Carpender) stay to observe work.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
- Working on resolution with USACE

WEATHER CONDITIONS
Clear and hot and, partly cloudy and warm in AM windy in PM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, A. Trocha, H. Stickle, G. McCutcheon

SIGNATURE: T. Kunkel DATE: 7/22/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**22**		
CM:	**Todd Hiltunen**	**Date:**	**7/23/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**89**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Base Highway Traffic**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	20
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **80**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1411**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1491**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	0
	Ahern	2000 Gallon Water Truck	6
	United	Front End Loader	6
	United	(2) 5 CY End Dump Trucks	6
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	0
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	4
	Worldwide	Komatsu PC-300 Excavator	4

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**78 Tons**	**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to import back fill material from the KAFB landfill. Hauled (10) loads
	Setup Komatsu PC-300 and trench boxes and conducted the required lift test
	Continued with site maintenance

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/23/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	23	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at trailer. Print labels and SCLs for groundwater and vapor.
0745 - Perform integrity checks on excavations, barricades, and signage. Repair barricades, clean up trash.
0840 - Maintain access to northern area while crew goes to KAFB active landfill to begin hauling backfill.
1200 - Trucks stop running backfill for short lunch break. Check mail at field trailer. Mark up FFOR figures from Zeke.
1240 - Begin setting equipment for trench box contruction. Crew constructs trench box.
1329 - Begin to figure out rigging angles and loads. for safety sheet.
1439 - Inspect rigging and extendtor for task.
1510 - Reiterate rigging JSA and AHA with crew.
1525 - Martin Carpenter (USACE) arrives to review rigging plan.
1600 - Crew rigs trench box and moves it.
1610 - Crew breaks down trench box to smaller size.
1700 - Secure equipment. End field day. Finish paperwork.

7/23/14

VISITORS ON SITE:
Rob Elfrink (CB&I safety management)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and~~ hot in PM, cloudy and clear and hot in AM

IMPORTANT TELEPHONE CALLS:
cancel lab pickup

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, H. Stickle, G. McCutcheon, A. Troch

SIGNATURE: T. Kunkel DATE: 7/23/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**23**		
CM:	**Todd Hiltunen**	**Date:**	**7/24/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**92**	**Rain / Snow / (Other)**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	6
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **66**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1491**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1557**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	10
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	10
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	0

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**78 Tons**	**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate the grid points in the northern excavation area.
	Excavated the stepout areas at DP016, DP017, DP035 AND DP054. Excavated the required additional material and stockpiled it onsite for later
	T&D. Setup and excavated The soil from DP026. Excavated to the required depth of 10' bgs.
	Reinstalled the excavation barriers and covered the onsite stockpile with poly sheeting.

7/24/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	7	24	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: FFOR, BFF, KAFB

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting and JSA.
0720 - Truck check. Gather sampling supplies. Operators go to prepare things in northern area for stepout excavations.
0810 - Perform integrity checks on excavations, barricades, and signs.
0840 - Set up tailgate wench system and decon area at CR2.
0904 - Begin excavation at DP035 stepout, going to 5 feet.
0930 - Sample stepout of DP035. Ongoing dust suppression. Ongoing air monitoring.
0955 - Begin excavation at DP054 stepout, going to 10 feet.
1039 - Sample DP054 stepout.
1110 - Go back to trailer, troubleshoot problems with GPS with technician from Findlay until 1241.
1300 - FFOR status call with project team.
1320 - Begin excavation at DP026. USACE on site.
1400 - Begin excavation at DP016 and DP017 2nd stepout.
1457 - Sample DP016 and DP017 stepout #2.
1530 - Go to trailer to ship samples. QC and package.
1630 - Mike from Hall comes to trailer to pick up samples. Secure equipment, and secure site.
1700 - End field day.

7/24/14

VISITORS ON SITE:
Martin Steve Carpenter (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM, warm and partly cloudy in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, A. Troch, G. McCutcheon, H. Stickle, T. Hiltunen

SIGNATURE:

DATE: 7/24/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**24**		
CM:	**Todd Hiltunen**	**Date:**	**7/25/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**Good / Fair / Poor**		**MIN Temp**	**70**	**MAX Temp**	**100**	**Rain / Snow / Other**
Morning Weather	**Mostly Sunny**		**Afternoon Weather**		**Mostly Sunny**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	

TOTAL WORK HOURS ON JOB SITE THIS DATE:	**70**
TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE:	**1557**
TOTAL WORK HOURS ON JOBSITE TO DATE:	**1627**

☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	2
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	8
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	10
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	0
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	8
	Worldwide	Komatsu PC-300 Excavator	10

Soil Transported Offsite:	**105.48 Tons**	**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:	**78 Tons**	**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate the grid points in the southern excavation area.
	Completed excavating DP213 down to 7.5" bgs and collected the required sidewall soil samples. Removed the lighter top trench box section from
	the excavation and installed the heavier bottom section and continued the excavation to the required 15' bgs. Collected the floor sample from the
	excavation. All required air monitoring and fall protection were in full use throughout the excavation of DP213. Transported the excavated soils to
	the onsite stockpile in the northern area.
	Crew secured the site and covered the contaminated soil stockpile with poly sheeting.

7/25/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	7	25	14
	NO.	140705		
	SHEET	1 OF	2	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation of contaminated soil

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting and tailgate with crew.
0720 - Prepare equipment. Crew goes out to excavation area
0750 - Crew prepares to rig box.
0811 - Continue excavation at DP213, place trench box.
0905 - Begin sampling at DP213.
0940 - Rig box in DP213 to swap out for heavier box. Dig deeper.
1055 - Wrong size eye-bolt.
1100 - Go to pick up correct size eye-bolt at IMSCO.
1153 - Return to site. Crew assembles box to 20x10 feet in northern area.
1230 - USACE arrives on site. Crew begins to finish assembly of trench box in southern area on DP213.
1420 - Begin digging in double trench box in southern area at DP213. Spot dump trucks in north area. Ongoing air monitoring at DP213 excavation.
1530 - TD at 15 feet on DP213. Sample bottoms. GPS all sample locations and corners.
1600 - Return to field trailer to ship samples.
1640 - Runner picks up samples. Go GPS additional boundaries and points in northern area. Finish paperwork in trailer
1700 - End field time. Finish paperwork and email from home.

7/25/14

VISITORS ON SITE:
Mark Phaneuf (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM, hot and clear in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, A. Trach, G. McCutcheon, H. Stickle, M. Castillo, L. Glick

SIGNATURE:

DATE: 7/25/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**25**		
CM:	**Todd Hiltunen**	**Date:**	**7/28/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**69**	**MAX Temp**	**86**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	20
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **80**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1627**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1707**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	10
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	10
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	10
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	10

Soil Transported Offsite:		**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate grid locations in the north
	Began excavation of Grids # DP095, DP096, DP098 and DP099. Excavated the 4 grids to a depthe of 8' and installed the bottom trench box
	section. Assembled and installed the 4' center section of the box. Excavated the grids to a depth of 9' bgs and stopped the excavation efforts until
	tomorrow when there will be enough time for sample collection and shipping.
	Crew filled additional sandbags and performed stockpile maintenance at the end of the day.
	WRS was onsite and swapped buckets on the Komatsu PC-300 Excavator

7/28/2014

COMBINED FORM 01450-1 (9/98) — CONTRACTOR/SUPERINTENDENT — Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	7	28	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Morning safety briefing and JSA at field trailer.
0720 - Operator crew goes to inspect equipment. Gather sampling supplies.
0810 - Set up for excavation. Ongoing air monitoring
0850 - Begin excavation at DP095, DP096, DP098, and DP099 in north area.
0950 - Pause excavation while other trench box pieces are delivered. Wait on crew offloading
1030 - Continue excavation at DP095, DP096, DP098, and DP099.
1051 - Halt excavation to move large excavator over to north area.
1140 - Begin excavation, bag sand for stockpile control.
1225 - Set trench box in excavation at DP095, DP096, DP098 and DP099. Short break
1320 - Begin construction on 2nd trench box.
1417 - Connect 2nd trench box to 1st trench box. WRS comes out and connects new bucket to 90,000 lb. excavator.
1507 - Begin excavating again at DP095 DP096, DP098 and DP099. Ongoing dust suppression. Dig to 9 ft.
1545 - Begin covering stockpiles.
1640 - Look down equipment and supplies. Finish paperwork.
1700 - End field time.

7/28/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS (windy) ~~Clear and hot~~ partly cloudy and cool in AM cloudy and warm in PM

IMPORTANT TELEPHONE CALLS:

None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, L. Glick, A. Troch, G. McCutcheon, H. Stickle, M. Castillo, D. Wheat

SIGNATURE:

DATE: 7/28/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**26**		
CM:	**Todd Hiltunen**	**Date:**	**7/29/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**65**	**MAX Temp**	**86**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy/Light Rainfall**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	20
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **80**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1707**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1787**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	6
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	8
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	8

Soil Transported Offsite:		**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate grid locations in the north
	Continued the excavation of Grids # DP095, DP096, DP098 and DP099. Excavated to 10' bgs and collected the required sidewall soil samples
	from the east, west and north sidewalls. Installed the top 8' section of trnch box. Excavated down to 13' bgs and could not get the boxes to drop.
	Crew purchased additional materials for the site, filled sandbags and performed site and stockpile maintenance
	Ordered side cutters for the PC-300 bucket

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 7/29/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	29	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation at FFOR

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Morning Safety meeting and tailgate.
0725 - Gather supplies, inspect equipment, inspect barricades, signs, and excavations.
0815 - Begin additional excavation at DP095, DP096, DP098, and DP099. USACE arrives on site.
0841 - Reach 10 ft on 4-grid excavation. Begin sampling sidewalls, 3 samples at 10 feet depth.
0927 - Continue excavation at DP095, DP096, DP098 and DP099.
1025 - Short break before assembling second trench box. Check email.
1040 - Continue work at excavation area. Fill additional sand bags.
1130 - Rig assembled trench box, attach to box in excavation.
1245 - Continue excavation inside trench box.
1331 - Halt excavation to get side teeth on bucket.
1341 - GPS excavation corners and samples using fall protection.
1436 - Fuel truck.
1450 - Begin to lock down equipment and supplies. Secure site.
1532 - Go to field trailer to ship samples QC package.
1630 - Meet Hall runner Niles at Truman gate to collect samples. Return to trailer, finish paperwork
1700 - End field time.

T. Kunkel 7/29/14

VISITORS ON SITE:
Steve Carpenter (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ a little sun; partly cloudy, a little cool in AM; cloudy raining in PM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, A. Troch, G. McCutcheon, H. Stickle, D. Wheat, M. Castillo

SIGNATURE: T. Kunkel DATE: 7/29/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**27**		
CM:	**Todd Hiltunen**	**Date:**	**7/30/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	(Good) / Fair / Poor		**MIN Temp**	**65**	**MAX Temp**	**95**	Rain / Snow / (Other)
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	20
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **80**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1787**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1867**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	6
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	8
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	8

Soil Transported Offsite:		**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	WRS onsite and installed side cutters on the bucket of the PC-300 Excavator
	Crew had to pull the entire trench box from the DP095, DP096, DP098 and DP099 excavation due to the boxes not wanting to advance down in to
	the excavation. Cleaned out the excavation and reinstalled all 3 box sections. This took most of the day. Continued to excavate soil from the 4 grids.
	Performed stockpile maintenance at days end.

CONTRACTOR/SUPERINTENDENT — 7/30/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	30	14
	NO.	140705		
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting and tailgate at field trailer.
0730 - Check barricades, signs and excavation integrity.
0810 - WRS arrives with teeth for excator bucket and install.
0937 - Begin rigging top box at DP095, 96, 98 and 99 to remove and adjust boxes because stuck in excavation.
1011 - Remove top box, disconnect rigging.
1028 - Rig second box. Attempt to shift it. Box to heavy. Dig outside box to unattach middle box from deep box.
1141 - Unattach and remove middle box from deep box
1229 - USACE arrives on site. Begin to loosen deep box with excavator. Give USACE a tour of the site.
1345 - Rig and remove deepest box from DP095, 96, 98 and 99.
1410 - Place 8-ft box back in hole, attach 4 ft box on top of that.
1447 - Adjust box positions using both excavators.
1501 - Continue excavation at DP095, DP096, DP098, and DP099.
1603 - Rig top box and attach to box in hole. Continue excavation within new boxes.
1700 - Secure equipment and stockpile. End field time.

7/30/14

VISITORS ON SITE:
USACE (Mark Phaneuf, Matt Bonner)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM ; partly cloudy, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Click, T. Hiltunen, A. Trocki, C. McCutcheon, H. Stickle, M. Castillo, D. Wheat

SIGNATURE:

DATE: 7/30/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**28**		
CM:	**Todd Hiltunen**	**Date:**	**7/31/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	**(Good) / Fair / Poor**		**MIN Temp**	**63**	**MAX Temp**	**82**	**Rain / Snow / (Other)**
Morning Weather	**Partly Cloudy**		**Afternoon Weather**		**Partly Cloudy**		
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	2	Site H&S Manager	20
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **80**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **1867**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **1947**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	8
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	8

Soil Transported Offsite:		**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate grids DP095, DP096, DP098 and DP099. Excavated to final depth of 20' bgs. Boxes still will not drop to full depth in the
	excavation. Collected the required floor soil sample from the bottom of the excavation. Continued to stockpile excavated soil onsite and cover it
	with poly sheeting for later T&D. Performed stockpile maintenance.
	Removed the trench box from DP213 and relocated it to DP259. Cleaned out the excavation at DP259 and installed the relocated trench box
	preparing the excavation for compaction efforts

7/31/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	7	31	14
	NO.	140705		
	SHEET # 1 OF	1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief and tailgate meeting at trailer.
0725 - Do truck inspection.
0741 - Prepare supplies.
0801 - Drive to onbase gas station to get air in tires.
Crew adjusts trench box to bottom box.
0901 - Continue excavation at DP095 DP096, DP098, and DP099.
1014 - Make more sand bags. Continue excavation.
1045 - Begin sampling at these four 20 ft on bottom.
1117 - Finish at DP095, DP096, DP098, and DP097.6 to buy more safety flagging.
1230 - Return to site, set up by DP213 to shift trench box.
1347 - Make more sandbags. USACE arrives on site.
Rigging and moving boxs in south area from DP213.
1495 - Move trench boxes to DP259 to place in hole to prepare for compaction.
1515 - Shot trucks in northern area hauling soil from widening DP259.
1601 - Ship QC Package Sample.
1631 - Meet runner from Hall at Truman gate.
Finishing putting trench box back in DP259. Lock down equipment. Finish paperwork.
1700 - End field time.

7/31/14

VISITORS ON SITE:
Mark Phaneuf, Steve Carpenter (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in early PM, clear and cool in AM cloudy breezy in late PM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, G. McCutcheon, A. Troch, H. Strickle, D. Wheat, M. Castillo

SIGNATURE:

DATE: 7/31/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	29
CM: Todd Hiltunen	Date: 8/6/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111				Work Areas
CON #:	W912DY-10-D-0014/DO-0002		Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor		MIN Temp	65	MAX Temp	90	Rain / Snow / (Other)
Morning Weather	Partly Cloudy		Afternoon Weather		Partly Cloudy		
Off Site Due to Rain.	NONE						
SAFETY MEETING TOPIC:	Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: 70
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: 1947
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: 2017
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	5
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	5

Soil Transported Offsite:		Total to Date:	279.08 Tons
Backfill Transported Onsite:		Total to Date:	702 Tons

Schedule Activity No.	
	CBI:
	Completed installation of the trench box in DP259
	Constructed trench boxes for the next excavation at DP078 and DP346. Performed site maintenance and prepared for the upcoming media event
	scheduled for tomorrow 08/07/14.

8/6/2014

COMBINED FORM 01450-1 (9/98) CONTRACTOR/SUPERINTENDENT Date

Federal Services
Environmental & Infrastructure

Report Number: DPR-	**30**		
CM:	**Todd Hiltunen**	**Date:**	**8/7/2014**

PROJECT NUMBER:	**140705**	**PROJECT TITLE:**	**Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111**				**Work Areas**
CON #:	**W912DY-10-D-0014/DO-0002**		**Start Time**	**7:00 AM**	**End Time**	**5:30 PM**	**BFF KIRTLAND AFB, ALBUQUERQUE NM**
SITE CONDITIONS:	(Good) / Fair / Poor		**MIN Temp**	**61**	**MAX Temp**	**78**	(Rain) / Snow / Other
Morning Weather	**Cloudy**			**Afternoon Weather**		**Cloudy/Trace of Rain**	
Off Site Due to Rain.	**NONE**						
SAFETY MEETING TOPIC:	**Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety**						

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	2	Geologist	20

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: **70**
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: **2017**
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: **2087**
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	5
	United	(2) 5 CY End Dump Trucks	8
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	5
	Worldwide	Komatsu PC-300 Excavator	3

Soil Transported Offsite:		**Total to Date:**	**279.08 Tons**
Backfill Transported Onsite:		**Total to Date:**	**702 Tons**

Schedule Activity No.	
	CBI:
	Continued to excavate grids in the north area
	Setup and excavated grids DP078 and DP346 to 7.5' bgs and collected the required sidewall soil sample. Set trench box bottom section in the
	in the excavation and installed the top section. Media Event began at 13:00 and the excavation continued. Excavated the grids to a finish depth
	of 15' bgs. No floor samples are required at this grid point. Removed the trench boxes from the excavation. Stockpiled the excavated soil onsite
	for later T&D. Test ran the plate compactor in DP259. Found that the trench box end sheilds are too high to reach over to compact the grid bottom.
	Ordered shorter end sheilds to be delivered tomorrow 08/08/14. Crew finished the day performing site and stockpile maintenance.

COMBINED FORM 01450-1 (9/98)

CONTRACTOR/SUPERINTENDENT — 8/7/2014 Date

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	7	14
	NO.	140705		
	SHEET	~~0~~ 1 OF	1	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting with crew at trailer.
0727 - Do truck inspection. Gather sampling supplies. Crew goes to do equipment inspections.
0747 - Go to Truman gate to check error with Louies base pass.
0841 - Crew continues preparing equipment for excavation. Begin digging at DP078 and DP346
0917 - Make more sandbags.
0947 - Do barricade and integrity inspections.
1000 - USACE arrives on site.
1026 - Sample DP346 and DP078 on south wall at 7.5 ft.
1047 - Rig trench box to set in DP346 and DP078.
1132 - Crew attaches top box to lower box in DP346 and DP078. Finish preparing area for media to stand in.
1232 - Prepare site, short briefing before media event. Set up down wind air monitoring and LEL meter.
1302 - Media crews arrive on site with KAFB. Brief work description and safety meeting. 1.6 ppm on all gas PID. Particulate meter low. LEL 0%.
1315 - 0.4 on downwind PID meter, by media crew. No LEL.
1344 - Media crews demobilize from excavation site.
1405 - Crew begins rigging box to remove from DP078 and DP346.
1447 - Crew finishing removing trench boxes from excavations. Continues excavation to total depth.
1552 - Log QC package sample. Crew locks down equipment and secures site.
1700 - End field time.

T Kunkel 8/7/14

VISITORS ON SITE:
USACE (Mark Phaneuf, Steve Carpenter), KAFB, Media crews.

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ Cloudy, windy, partly cloudy, cool, scattered showers in AM, breezy

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, G. McCutcheon, H. Stickle, A. Troch

SIGNATURE: T Kunkel DATE: 8/7/14

Federal Services
Environmental & Infrastructure

Report Number: DPR-	31
CM: Todd Hiltunen	Date: 8/8/2014

PROJECT NUMBER:	140705	PROJECT TITLE:	Former Fuel Offload Rack Excavation/Bulk Fuels Facility Spill/Solid Waste Management Units ST-106 & SS-111			Work Areas
CON #:	W912DY-10-D-0014/DO-0002	Start Time	7:00 AM	End Time	5:30 PM	BFF KIRTLAND AFB, ALBUQUERQUE NM
SITE CONDITIONS:	(Good) / Fair / Poor	MIN Temp	59	MAX Temp	85	Rain / Snow / (Other)
Morning Weather	Mostly Sunny			Afternoon Weather	Mostly Sunny	
Off Site Due to Rain.	NONE					
SAFETY MEETING TOPIC:	Soil Excavation/Equipment Traffic/Open Excavations/Air Monitoring/Heavy Lifts/Rigging Safety					

Schedule Activity No.	WORK LOCATION AND DESCRIPTION	Employer	Number	Trade	Hours
	Construction Manager Oversight	CBI	1	Construction Manager	10
	Site Health and Safety Management	CBI	1	Site H&S Manager	10
	Soil Excavation and Stockpile Construction	CBI	3	Equipment Operator	30
	Soil Sampling	CBI	0	Geologist	0

JOB SAFETY

WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☑ YES	☐ NO	TOTAL WORK HOURS ON JOB SITE THIS DATE: 50
WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE PREVIOUS DATE: 2087
CRANE/MANLIFT/TRENCH/SCFFLD/HV ELEC/HIGH WRK/HAZMAT WRK DONE? (If YES attach statement or checklist showing inspection performed.)	☐ YES	☑ NO	TOTAL WORK HOURS ON JOBSITE TO DATE: 2137
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? (If YES attach description of incident and proposed action.)	☐ YES	☑ NO	☑ SAFETY REQUIREMENTS HAVE BEEN MET.

Schedule Item #:	LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED
	Conducted the Daily Tailgate Safety Meeting and reviewed the Daily JSA

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB (INDICATE SCHEDULE ACTIVITY NUMBER)

Schedule Activity No.	Submittal #	Description

CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.

Schedule Activity No.	Owner	Description of Construction Equipment Used Today (incl Make and Model)	Hours Used
	United	Pickup Truck	10
	CB&I	Pickup Truck #101975	10
	Ahern	Kobelco 210 Excavator	5
	Ahern	2000 Gallon Water Truck	8
	United	Front End Loader	8
	United	(2) 5 CY End Dump Trucks	0
	United	Pickup Truck	10
	HAZCO	Emergency Retrieval System	8
	Scott's	300 LF of Temporary Fencing	24
	Worldwide	Cat 320 Excavator w/Plate Compactor	0
	TSS	(2) Complete 5'x10'x20' trench box w/end sheilding	10
	TSS	(2) Complete 10'x20'x20' trench box w/end sheilding	10
	Hertz	Pickup Truck	10
	SWS	(40) Concrete Jersey Barriers	24
	United	Front End Loader Forks	8
	Worldwide	Komatsu PC-300 Excavator	3

Soil Transported Offsite:		Total to Date:	279.08 Tons
Soil Excavated:		Total to Date:	550 Tons
Backfill Transported Onsite:		Total to Date:	702 Tons

Schedule Activity No.	
	CBI:
	Took delivery of the 15' trench box end shields
	Removed the 20' end sheilds from the trench box at DP259 and installed the 15' end shields to gain compactor plate access.
	Performed site maintenance
	Broke down the trench boxes from the DP078 and DP346 excavation
	Made final preparations for the compaction efforts at DP259

CONTRACTOR/SUPERINTENDENT — 8/8/2014 Date

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	8	11	14
	NO.	140705		
	SHEET	1	OF	2

PROJECT NAME: KAFB FFOR BIF

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation at FFOR

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting and tailgate at field trailer with excavation crew.
0720 - Crew sets up at DRMO for soil hauling.
0740 - Crew sets up safety equipment for compaction testing.
0830 - Compaction testing scrapped because technician does not have 40 hr. Trucks begin to haul to landfill.
0941 - Begin digging DP019, DP022 DP023, DP025, DP028 and DP029 and grid south of DP019 for easier excavation. Dig area to 5 feet. USACE on site briefly.
1038 - Perform integrity checks on barricades, fencing, signage and open excavations. Trucks from Rhino continue hauling backfill to Valencia Regional Landfill.
1300 - Excavation ongoing at locations listed above.
1347 - Belly dump trucks back from Valencia Regional, load up again.
1410 - Make additional SCLs and labels for stegout locations. Excavation continues.
1645 - Lock down equipment.
1700 - End field time.

8/11/14

VISITORS ON SITE:
USACE (Steve Carpenter, Matt Bonner)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM, clear, cool in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, L. Click, H. Stickle, T. Hiltunen, G. McCutcheon, A. Troch, Chet Brinson, D. Vilcant

SIGNATURE:

DATE: 8/11/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	12	14
	NO.	140705		
	SHEET	# 1	OF	1

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activites

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at trailer with crew.
0720 - Crew goes to inspect equipment, Louie runs tracks to scale on DRMO.
0817 - Go to home depot, buy supplies - Drop off supplies.
0910 - Begin excavation at DP066, DP067, DP068, DP326, and DP344. Begin to scrap to 5 feet.
1004 - Go to office print 11x17 figures. Work with data on GPS unit. GPS unit has large error and is creating inaccurate data.
1207 - Return to field trailer, check Interim measures work plan.
1300 - Status call. Excavation continues at boreholes listed above. Taking locations from today to 5 ft depth. Boreholes at 08/11/14 also at 5 ft depth.
1421 - Reach 5 ft at locations DP066, DP066A, DP068, DP326, and DP344. USACE on site.
1535 - Cover soil stockpiles with poly sheeting.
1618 - Bring other excavator over to north area on plywood.
1625 - Genie 11 ft (man lift) delivered to site. Drive on to north excavation area, secure.
1646 - Secure equipment in north area.
1700 - End field day.

8/12/14

VISITORS ON SITE:
USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM; clear and cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, A. Troch, G. McCutcheon, A. Stickle, C. Brausen

SIGNATURE:

DATE: 8/12/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	13	14
	NO.	140705		
	SHEET #	1 OF	7	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at field trailer with crew
0716 - Crew checks equipment and prepares for removal of trench box in DP095, DP096, DP098 and DP099.
0814 - Perform barricade inspections, integrity checks of boreholes. Mike Amdurer out on site.
0853 - Rhino trucks continue to transport contaminated soil to Valencia Regional Landfill.
0931 - ~~Crew~~ ~~Todd~~ goes to buy more I-bolts after one breaks during rigging.
1012 - Crew returns, begins rerigging process for trench box in DP095, DP096, DP098, and DP099.
1108 - Box is stuck, crew begins to pull dirt from sides to allow top box to be removed. Trucks continue to run contaminated soil.
1142 - Top box removed from DP095, DP096, DP098, and DP099
1212 - Fuel pickup truck. Second box removed.
1231 - USACE arrives on site. Work on trench box continues.
1421 - Bottom trench box removed from excavation at DP095, DP096, DP098 and DP099. Dust suppresion and air monitoring on going.
1530 - Lightning at 1-3 mile distance, stand down for safety in trailer.
1555 - Lightning strike.
1632 - Secure equipment and site.
1700 - End field time.

T. Kunkel 8/13/14

VISITORS ON SITE:
USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ Mostly cloudy; mostly cloudy, slightly cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, H. Stickle, S. McCutcheon, C. Bransen, D. Wheat

SIGNATURE: T. Kunkel DATE: 8/13/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	14	14
	NO.	14070	S	
	SHEET	1 OF	2	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities, compaction testing.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at trailer with crew.
0715 - Perform vehicle inspections. Crew goes and prepares equipment and inspections on heavy equipment. Load up safety equipment.
0735 - Prepare for compaction testing at DP259. Passive air monitoring in hole shows no VOCs, benzene, and normal oxygen.
0816 - Setup safety retrival system on tailgate hitch. USACE QA/QC arrives. Amec technician arrives.
0921 - Begin compacting first lift. Steve Carpenter raises question on confined space permit. Go to resolve issue with James Joice and USACE.
1035 - Signage updated on hole. See attached for density measurements. On going density testing with air monitoring and 100% fall protection.
1328 - 3rd test done. Ongoing density testing.
1447 - Begin rigging box in DP259 to pull up top box.
1518 - Trench box stuck because of compacting inside. Dig out 4 lifts box 5 still doesn't loosen.
1640 - Lock down equipment.
1700 - Finish paperwork. End field day.

8/14/14

VISITORS ON SITE:
- USACE (Matt Bonner, Steve Carpenter)
- James Joice (CB&I)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ Cloudy, breezy in PM; cloudy, cool in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kan Kel, T. Hiltunen, L. Glick, G. McCutcheon, C. Bransen, H. Stickle, D. Wheat

SIGNATURE:

DATE: 8/14/14

FIELD ACTIVITY DAILY LOG
CONTINUATION SHEET

DAILY LOG	DATE	8	14	14
	NO.	140705		
	SHEET 2 OF 2			

PROJECT NAME: Compaction test at DP259 | PROJECT NO.: 140705

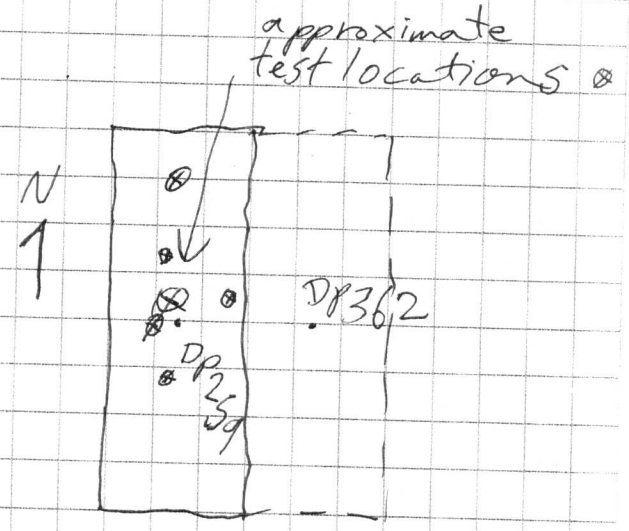
FIELD ACTIVITY SUBJECT: FFOR excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

	Depth feet	passes	WD (lb/ft³/pcf)	%DM	DD (lb/ft³)	% Compaction
1st reading 1.	15 bgs	2	138.0	5.7%	130.5	100% (no offset)
2.	14 bgs	2	135.4	14.1%	118.7	91% (trench offset)*
2a.	14 bgs	2	133.5	7.5%	124.2	96% (no offset)
3.	13 ft bgs	2	128.7	6.3%	121.1	93.1% (no offset)
4.	12 ft bgs	2	136.4	6.5%	128.1	98% (no offset)
5.	11 ft bgs	2	138.6	5.6%	131.3	100% (no offset)
6.	10 ft bgs	2	139.7	6.3%	131.4	100% (no offset)
7.	ft bgs					

→ lifts needed to be removed because of stuck trench box.

* Trench offset reads moisture too high, do tests without trench offset for accurate reading.
- Trench offset for better use in locations without trench box.



FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	15	14
	NO.	140705		
	SHEET	1 OF 1		

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief and tailgate. Trucks begin running soil to the landfill in Valencia.
0721 - Prepare equipment at excavation.
0752 - Move excavator over on plywood to southern area.
0831 - Get retrival system from safety trailer.
0853 - Begin loosening trench box in DP259 for removal to higher height before compaction continues.
0931 - Put first lift in excavation DP259. Compact lift, lift is tested in hole because the 3/4 dug out yesterday. See attached for compaction notes.
1014 - Begin rigging box to pull up to 12 feet deep.
1052 - USACE on site. Drop next 11ft in hole. Begin compacting.
1136 - Finish last test, need to wait on ~~shorter~~ longer rigging to lift trench box more. Compaction on hold til 8/18/14 numbers on hold.
1152 - Prepare sampling supplies for stepout. Move equipment to ~~2.5~~ 5 ft DP213.
1305 - Begin digging DP213. Reach 7.5 ft.
1351 - Sample East wall stepout. Continue digging.
1410 - Leave to get chokers at INSCO for trench box
1503 - Return to site and unload. Dig complete at DP213
1515 - Perform lift test at DP259 with short rigging cables.
1546 - QC, log, ship sample.
1630 - Hall picks up sample at trailer. Finish pw.
1700 - End field time.

8/15/14

VISITORS ON SITE:
- James Joice (CB&I Safety)
- Steve Carpenter (USACE)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ ; partly cloudy, a little cool/humid

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, C. Brinser, G. McCutcheon, H. Stockle, Dwheat

SIGNATURE:

DATE: 8/15/14

FIELD ACTIVITY DAILY LOG

DAILY LOG	DATE	8	18	14
	NO.	14070	S	
	SHEET	1 OF	1	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Excavation related activities at FFOR

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at trailer.
0727 - Trucks begin running contaminated soil to Valencia. Crew goes to prepare equipment.
0802 - Perform integrity checks on signage, barricades and open excavations.
0821 - Look at DP095 and DP096 for step-out location, close to well, photograph and send to Mike Amdurer.
0849 - Crew moves heavy equipment to north area on ply wood.
0923 - Crew begins reconfiguring trench boxes in northern area.
1054 - Vapor well determined to be too close to DP095 and DP096 where step-out was required. No dig on step-out to preserve vapor well due to high risk of cave-in at this location.
1100 - Crew begins rigging trench boxes into DP066, DP067, DP068, DP326, and DP344 (all currently at 8 ft bgs.)
1222 - Continue excavation inside trench box at DP066 DP067, DP068, DP326, and DP344. Ongoing air monitoring and dust suppression.
1314 - Reach 10 ft, begin sampling effort at north, west, and south sides. USACE on site.
1341 - Continue excavation and shift box to excavate north end to 10 ft so sample can be collected.
1459 - Begin prep for 3rd trench box to go into DP066 DP067 DP068 DP326 and DP344. Rig box and align to lower box.
1520 - Mark Phament from USACE on site.
1527 - Continue digging inside DP066 DP067, DP068, DP326, and DP344
1531 - Return to field trailer to Log and QC soil samples.
1630 - Lab runner picks up samples. GPS sample locations from south and east wall. Crew moves excavator to north area on ply wood. Finish paperwork.
1700 - End field time.

TSK

VISITORS ON SITE:
- USACE (Steve Carpenter) ~1300
- USACE (Mark Phament) ~1520

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
- Talk to Mike Amdurer and Tom Cooper about not digging step-out on DP095 and DP096 due to pre-existing vapor well. Step-out will not be dug.

WEATHER CONDITIONS
Clear and hot in PM ; clear, warm in AM

IMPORTANT TELEPHONE CALLS:
None important.

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, G. McCutcheon, H. Stickle, C. Bronson, I. Dietz, D. Wheat

SIGNATURE: [signature] DATE: 8/18/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	19	14
	NO.	140705		
	SHEET	0 1 OF	4	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at field trailer
0720 - Crews goes to prepare equipment. Prepare sampling supplies. Continue hauling soil to Valencia Landfill.
0737 - Perform barricades, signage, and integrity check on open excavations.
0745 - Continue excavation at DP067, DP068, DP066, DP326, and DP344.
0800 - Reach 10 feet on north end, collect wall sample.
0810 - Continue excavation in DP066, DP067, DP068, DP326, and DP344.
0849 - USACE on site.
0915 - Prepare area around DP193 and DP201 for compaction.
0932 - Begin excavating sluff from DP201 down to a depth of 6.5 ft. Sluff soil put in dump trucks and added to contaminated soil stockpile. Details on compaction on sheet 3 for DP201.
0953 - Begin excavating sluff from DP193 down to a depth of 16 ft. Sluff soil put in dump truck and added to contaminated soil stockpile. Details on compaction on sheet 4 for DP193. Pull down fencing around 193 and 201, jersey barriers left for now.
1056 - Begin compacting at DP193. Compact 1st lift at DP193
1118 - Compact floor of DP201. Compact 1st lift at DP201.
1135 - Add 2nd lift at DP193. 3 loads from loader to get 18 inch soft. Compact lift to 1 foot thick.
1147 - Add 3rd lift at DP193. Excavation ongoing up at DP066, DP067, DP068 DP326, and DP344.
1203 - Lunch break.
1230 - Resume digging and compaction efforts.
1246 - Add 4th lift at DP193. Compact lift to 1 ft thick.

VISITORS ON SITE:
USACE (Mark Phaneuf, Steve Carpenter)
Amec tech (Don Miller)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ partly cloudy, clear and cool in AM, hot in PM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, C. McCutcheon, H. Stickle, C. Brensen, I. Dieh

SIGNATURE:

DATE: 8/19/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG | DATE 8/19/14 | NO. 140705 | SHEET 2 OF 4

PROJECT NAME: KAFB BFF FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

1255 - Excavation on going at DP066, DP067, DP068, DP326 and DP344.

1309 - Add 5th lift, some sidewall collapse. Respread soil and continue compaction. ~18 inch loose. Compact to 1 ft thick.

1320 - Add 6th lift to DP193. ~18 inch loose. Compact to 1 ft thick.

1340 - @ 4 feet in DP193. Wait for Amec technician here.

1343 - Add 1st lift to DP201. ~18 inch loose. Even out floor bottom. Hole was 6 ft on west end and 5 ft on east end due to uneven ground. Begin compaction of 1st lift.

1407 - @ 4 feet in DP201.

1423 - Amec tech arrives on site. Make small dirt ramp so tech can enter safely. Don prepares equipment. First test DP193

1449 - First test DP201.

1456 - Add 2th lift DP201. Compact. Test.

1518 - Go to north area to collect 20ft sample at 66, 67, 68, 326, and 344.

1532 - Add 3rd lift to DP201. Compact. Test.

1550 - Add 4th lift to DP201. Compact. Test. Go Log, QC, and ship samples.

1620 - Lab picks up samples. Compaction continues at DP201. See sheets 3 and 4 for details.

1450 - Finish DP201 & 2nd original grade lift. compact. test.

1701 - Continue compaction at DP193. See sheet 4 for detail on compaction.

1730 - Finish compaction at DP193. Perform last original grade test.

1740 - Secure equipment. End field time. Finish paperwork afterward.

8/19/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG	DATE	8	19	14
	NO.			
	SHEET 3 OF 4			

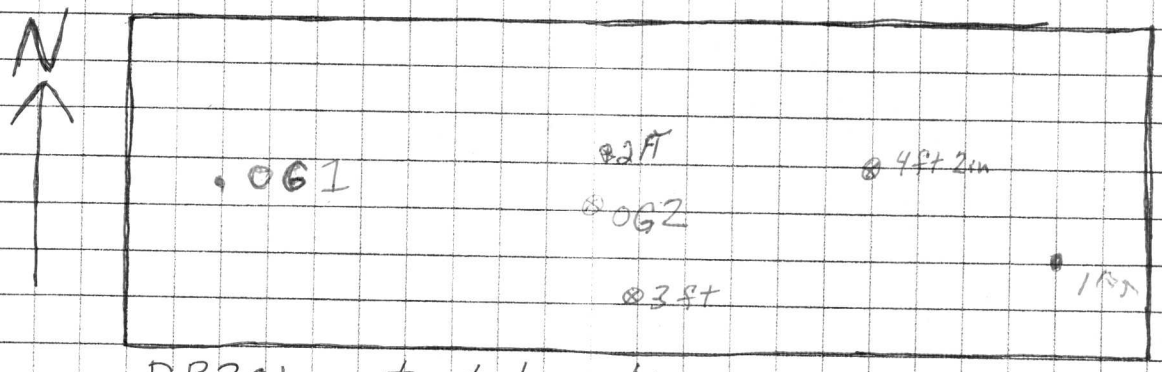
PROJECT NAME: KAFB BFF Compaction FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: compaction at DP201, compact floor at 6 ft on west end, about 5 ft on east.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: No tests until 4 ft 6 in

* location | depth feet | passes w/ compactor | WD lb/ft³ | %M total | DD lb/ft³ | % Compacted

location	depth feet	passes w/ compactor	WD lb/ft³	%M total	DD lb/ft³	% Compacted	
DP201	4 ft 2 in.	3	NA	NA	NA	NA	TSK 8/19/14
DP201	4 ft 2 in	3	128.5	3.6%	124.1	95%	no offset
DP201	3 ft	3	140.1	6.3%	131.8	100%	no offset
DP201	2 FT	3	122.6	4.9%	116.9	90%	no offset
DP201	1 ft	2	135.3	5.7%	128.0	99%	no offset
DP201	0 Grade 1	2	132.1	5.7%	125.0	96%	no offset
DP201	original grade 2	2	122.6	4.6%	117.3	90%	no offset



DP201, test locations

* Sluff soil removed from DP201 prior to compaction activities to a depth of 6 feet on west end, about 5 feet on east end.

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

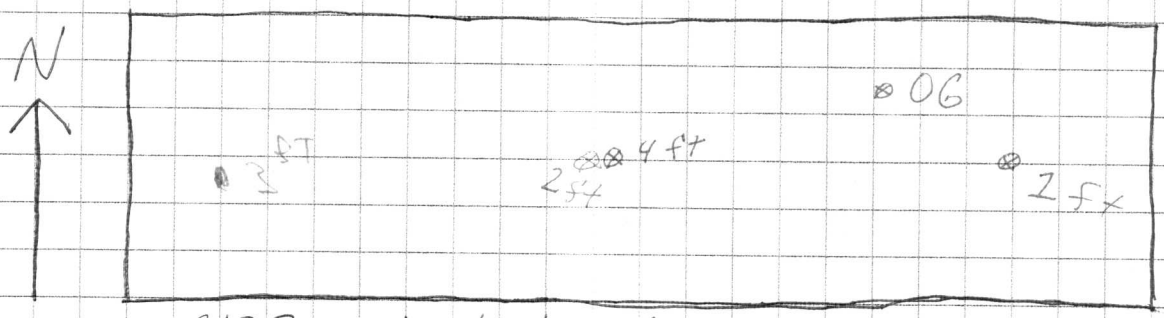
DAILY LOG | DATE 8 | 19 | 14 | NO. | | | | SHEET 4 OF 4

PROJECT NAME: KAFB BEF compaction FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: compaction at DP193, start depth 10 feet, compact floor.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: No tests until 4 ft bgs.

location* / lift ↓	depth feet	passes compactor	WD lb/ft³ / %M	%M total	DD lb/ft³	% compacted (no offset)
1) DP193	8 ft 11 in.	2	NA	NA	NA	NA
2) DP193	8 ft	2	NA	NA	NA	NA
3.) DP193	7 ft	2	NA	NA	NA	NA
4.) DP193	6 ft	2	NA	NA	NA	NA
5.) DP193	4 ft 10 inch ~~5 ft~~ TSK	2	NA	NA	NA	NA
6.) DP193	4 ft	3	~~135.9~~ NA TSK 8/19/14	~~5.5%~~ NA 8/19/14 TSK	~~128.9~~ NA TSK 8/19/14	~~99%~~ NA TSK 8/19/14
7.) DP193	3 ft	2	132.1	4.2%	126.8	98%
8.) DP193	2 ft	2	133.6	5.9%	126.2	97%
9.) DP193	1 ft	2	135.0	4.4%	129.4	100%
10.) DP193	original grade	2	136.8	7.0%	127.9	~~98~~ TSK 8/19/14 %



DP193, test locations

* Slaff soil removed from DP193 prior to compaction activities to a depth of 10 feet.

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	20	14
	NO.	140705		
	SHEET	0 1 OF 0 1		

PROJECT NAME: KAFB BFF FFoR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFoR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief and tailgate.
0720 - Crew goes to prepare equipment and begin working with trench boxes. Finish corners at 6667, 68, 326, and 344.
0725 - Go to DRMO to wait for KAFB rep to weigh trucks for hauling contaminated soil.
0910 - Finish loading and weighing 1st load in 3 trucks. Crew digs DP065 to a depth of 20 feet bgs.
1012 - Crew moves trench boxes from southern area to northern area to prepare boxes to be insert.
1141 - Waste trucks return to pick up soil.
1312 - Crew begins assembling trench boxes in northern area to insert into excavation.
1456 - Finish setting bottom and middle box at DP029, DP027, DP026, DP025 and part of DP024. Begin excavation again in these locations. Currently at 8 feet.
1505 - Reach 10 feet bgs at DP029, DP028, DP026, DP025, and DP024.
1519 - Begin sampling north, east and south walls.
1600 - Log QC, begin shipping samples.
1630 - Lab picks up samples.
1639 - GPS sample locations.
1645 - Crew secures equipment and stockpiles.
1700 - End field time. Finish paperwork afterward.

2/20/14

VISITORS ON SITE:
None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS:
Clear and hot in PM; cloudy, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, L. Glick, T. Hiltunen, A. Stickle, G. McCutcheon, I. Dick, C. Brunson

SIGNATURE:

DATE: 9/20/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	21	14
	NO.	140705		
	SHEET	0 1 OF	01	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation Activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer.
0745 - Crew prepares equipment. First load of trucks away to landfill. Continue excavation at DP028 DP029, DP026, DP025 and half of DP024, (vapor well to close to dig full width of excavation).
0834 - Stake out corners of DP201, DP193 now compacted.
0855 - Assemble 3rd trench box rig box. Set box over bottom and middle box in DP028, DP029, DP026, DP025 and half DP024. Attach box.
0929 - Continue excavation at DP028, DP029, DP026, DP025, and half DP024.
1035 - 3 waste trucks fill up and haul to Valencia landfill. Excavation continues at above listed locations.
1231 - USACE on site.
1300 - 3 waste trucks fill up and haul to Valencia.
1409 - Adjust boxes at excavations listed above. Prepare for sampling later.
1432 - Crew puts guard rails on box at above locations. Finish locations to 20 ft bgs.
1515 - Sample bottom @ 20 ft using jar on PVC pipe to reach bottom.
1547 - Crew begins to assemble end shields in box at DP028, DP029, DP026 DP025.
1558 - Go log, QC sample. Prepare for runner pickup.
1630 - Lab picks up sample. Lay down equipment secure site.
1700 - End field time.

E Kunkel 8/21/14

VISITORS ON SITE:
USACE (Steve Carpenter)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot and PM ; clear, cool in AM breezy

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, H. Stickle, G. McCutcheon, C. Brinsen, I. Pich, J. Plass

SIGNATURE: E Kunkel DATE: 8/21/14

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	8	22	14
	NO.	140705		
	SHEET	0 1 OF	02	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer.
0730 - Crew preparts equipment. Weigh waste trucks empty.
0745 - Talk to landfill, raining down there cancel hauling for today. Calculate landfill quantities. Calculate yardage.
0805 - Crew begins to backfill and compact DP213 to within 4 feet of the surface to control runoff and rain collection over weekend. See page #2.
1017 - Drive to Valencia Regional, pick up more manifests. Crew finishes assembling end shields at DP025 DP026, DP028, DP029.
1210 - Return from landfill. Lock down equipment.
1215 - End field time. Finish pw from home.

T. Kunkel
8/22/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

~~Clear and hot~~ cloudy, cool in AM; rainy in PM

IMPORTANT TELEPHONE CALLS:

None

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, H. Stickle, C. McCutcheon, C. Brinsen, I Dick, D. Wheat

SIGNATURE: T. Kunkel DATE: 8/22/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG	DATE	8	22	14
	NO.	140705		
	SHEET	2 OF	2	

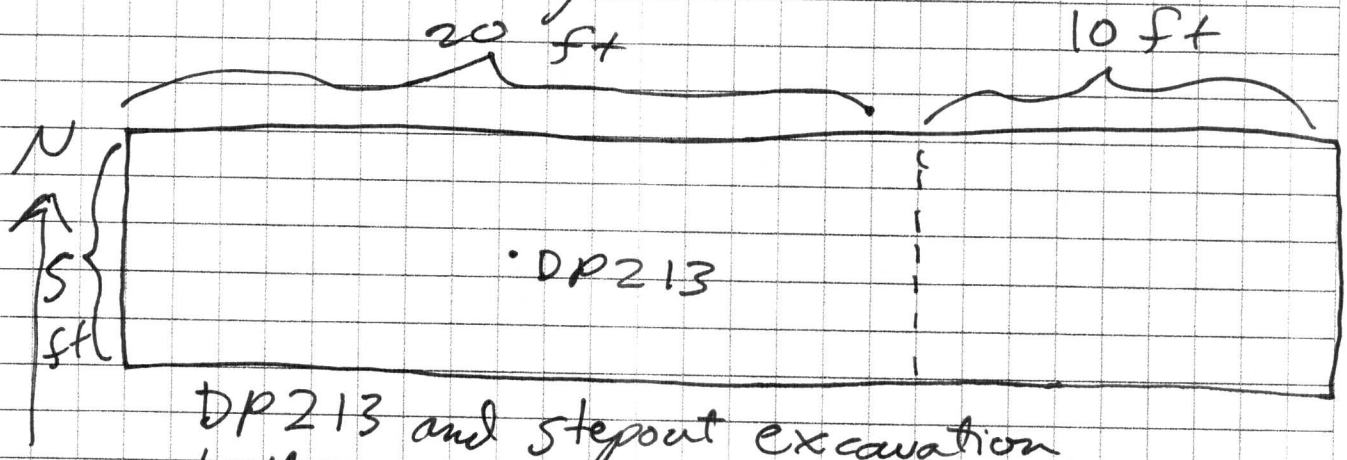
PROJECT NAME: KAFB BEF FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Compaction at DP213, compacted from 15 feet below ground surface to 4 feet. No testing required below 4 feet.

lift #	depth*	passes ☒ compactor
*Start depth 15 feet bgs		
1)	14 feet bgs	2
2)	13 feet bgs	2
3	12 feet bgs	2
4	11 feet bgs	2
5	10 feet bgs	2
6	9 feet bgs	2
7	8 feet bgs	2
8	7 feet bgs	2
9	6 feet bgs	2
10	5 feet bgs	2
11	4 feet bgs	2



DP213 and stepout excavation, both @ 15 feet bgs depth

8/22/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	25	14
	NO.	140705		
	SHEET	0 1 OF	02	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing and tailgate at trailer.
0720 - Weigh wasted trucks, load, reweigh. Trucks leave for landfill.
0811 - Crews adjusts end shields on trench boxes.
0932 - Dump trucks begin delivering rock to site for use in backfill.
1039 - 2nd round of trucks arrive to haul contaminated soil to landfill.
1049 - Continue working with end shields on trench boxes.
1300 - Begin backfilling DP066, DP067, DP068, DP326, and 344. with coarse angular gravel. See detailed notes on page 2.
1330 - 3rd round of trucks load and weigh and drive to Valencia Regional. Last loads for today.
1459 - Load small unused trench boxes onto Ahern truck, return.
1531 - Continue placing rock in DP066, DP067, DP068, DP326, and DP344. Ongoing dust suppresion with water truck.
1640 - Finish placing rock in bottom 5 feet of DP066, DP067, DP068, DP326, and DP345. Crew secures equipment and locks down site.
1700 - End field time.

8/25/14

VISITORS ON SITE:
USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ cloudy and partly; clear, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kunkel, T. Hiltunen, G. McCutcheon, C. Brinsen, I. Deith, H. Stickle, J. Miller

SIGNATURE: T. Kunkel DATE: 8/25/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

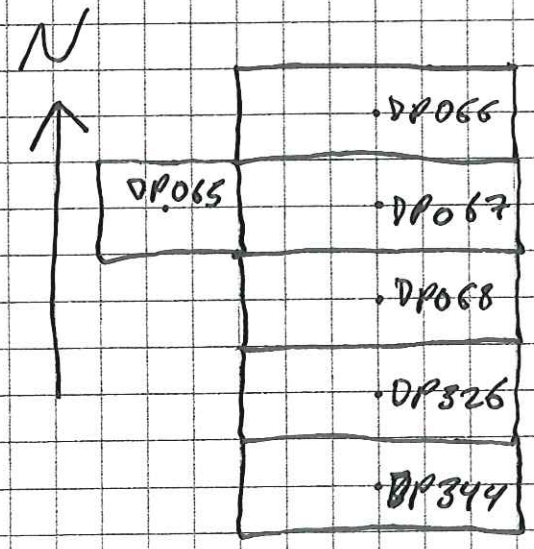
DAILY LOG		
DATE	8 25	14
NO.	140705	
SHEET 02 OF	02	

PROJECT NAME: Compact at DP066, DP067, DP068, DP326, and DP344 and DP065 PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Starting depth 20 ft bgs
- fill from 20 ft to 15 feet with angular basalt gravel*. Place gravel in hole in approximate 1 ft lifts, spread and compact down to level surface. Fine gravel* used inbetween basalt clasts.
*Crushed basalt gravel, approximately 3-6 inch clast size.
* Fine gravel ~ 1/8 inch for inbetween large basalt clasts.



Depth of 20 feet bgs.

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
DATE	8	26	14	
NO.	140705			
SHEET	0 1 OF 2			

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief at trailer. Crew begins hauling clean backfill from KAFB landfill. First round of dump trucks weigh and haul contaminated soil to ~~BFFF~~ Valencia Landfill.
0755 - Crew places small gravel in DP066, DP067, DP068, DP326 and DP344 after putting in moisture.
0936 - Amec technician arrives. Dan gives safety brief.
1010 - Begin compaction testing at DP213. See page 2 for detailed notes on locations and measurements
1021 - 3rd round trucks come to haul to Valencia Landfill.
1118 - USACE on site to observe compaction.
1245 - Finish compacting to original grade at DP213.
1310 - Crew goes to north area to pull box at DP066, DP067, DP068, DP326, and DP344 up a little. Prepare to put on end shields as well.
1405 - Drive to buy additional soil sampling supplies.
1547 - Crews pulls up and repositions trench box.
1645 - Lock down equipment, secure site. Finish paperwork.
1700 - End field time.

8/26/14

VISITORS ON SITE:
Amec technician (Joe Cardon)
USACE (Mark Phanemf)

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ cloudy in PM ; partly cloudy cool in AM

IMPORTANT TELEPHONE CALLS:
None

CB&I PERSONNEL ON SITE: T. Kunkel, C. Glick, T. Hiltunen, G. McCutcheon, H. Stickle, E. Dick, C. Brewer, J. Muller, J. Ross

SIGNATURE: T. Kunkel DATE: 8/26/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG | DATE 8/26/14 | NO. 140705 | SHEET 2 OF 2

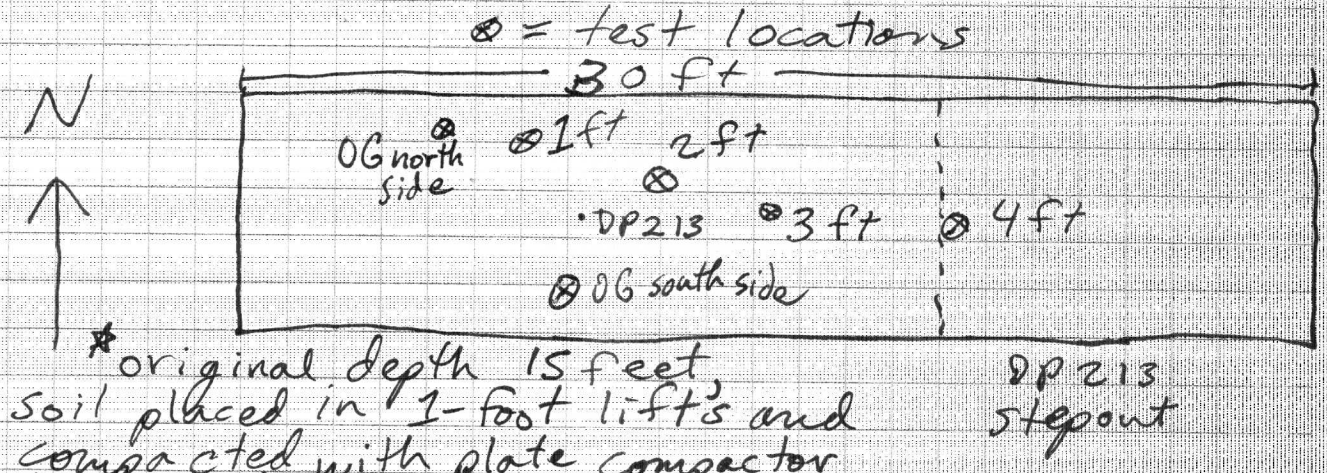
PROJECT NAME: Compaction at DP213, top 4 feet | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Compaction and density testing at DP213

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: Test top 4 ft.

Date	Depth* ft bgs	Passes compactor	WD (lb/ft³)/%M	%M	DD lb/ft³	% compact
8/26/14	4 feet	3	129.2	~~5.3%~~ 6.3% TSK	123.9	95%
8/26/14	3 feet	2	135.6	6.3%	127.6	98%
8/26/14	2 feet	2	132.3	5.7%	125.2	96%
8/26/14	1 feet †	2	126.0	5.7%	119.2	92%
8/26/14	OG south side†	2	~~123.9 +7.6~~ TSK	5.3%	117.6	90%
8/26/14	OG north side†	2	126.2	4.9%	120.3	93%

†sides uneven due to excavation boundaries located in drainage area



*original depth 15 feet, soil placed in 1-foot lifts and compacted with plate compactor to 4 feet deep.

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	27	14
	NO.	140705		
	SHEET	0 1 OF	2	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at field trailer.
0745 - Waste trucks arrive weigh load. Crew prepares equipment.
0811 - Crew begins pulling slush soil out of DP095, DP096, DP099 DP098.
0902 - Go fuels pickup trucks.
0949 - Begin excavation at DP079, DP076, DP077, DP080
1030 - 2nd round of pick up trucks come to haul waste to Valencia Regional Landfill.
1200 - Short break for crew.
1224 - USACE on site
1240 - Excavation continues at DP079, DP076, DP077, DP080, DP081 and DP331.
1248 - Joe from Amec arrives.
1300 - Prepare for compaction at DP066, DP067, DP068, DP326 and DP344. See page 2 for detailed notes. Set up fall protection. Do ongoing air monitoring. Benzene 0.0 ppm. PID=0.6 ppm.
1329 - Begin density testing at DP066, DP067, DP068, DP326, and DP344. Continue backfill.
1343 - Begin placing gravel in DP028, DP029, DP025, DP026, and DP024.
1413 - Sample at DP079, DP076.
1422 - Continue compaction at DP066, DP067, DP068, DP326, and DP344. Continue excavation at DP079, DP076, DP077, DP080, DP081 and DP331.
1525 - Reach 20 feet on DP076, DP077, sample floor.
1534 - Rig box at DP066, DP067, DP068, DP326, and DP344, attempt to pull up.
1700 - Lock down equipment. End field time.

VISITORS ON SITE:
USACE (Mark Phaneuf)
Amec (Joe Canton)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ partly cloudy, warm pm; partly, cloudy in AM cool

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Hiltunen, T. Kunkel, L. Glick, H. Stickle, G. McCutcheon, C. Brinzer, T. Rich, J. Cruz

SIGNATURE: T. Kunkel

DATE: 8/27/14

FIELD ACTIVITY DAILY LOG
CONTINUATION SHEET

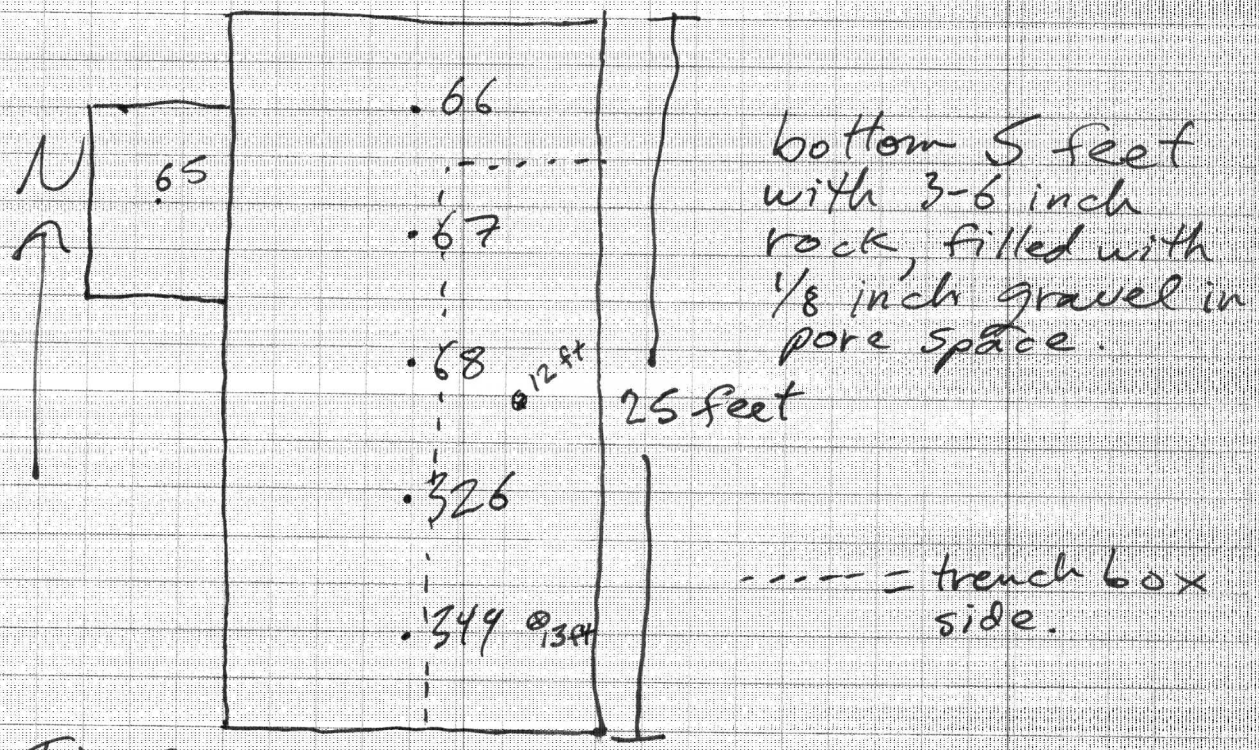
DAILY LOG | DATE 8 27 14 | NO. | SHEET 2 OF 2

PROJECT NAME: Compaction at DP066 DP067 | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: DP068, DP326, and DP344

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

date	depth ft bgs	passes	WD	%M	DD	% compact	
8/25 gravel	20-15	—	—	—	—	—	
8/27 dirt	14	2	—	—	—	—	
8/27 dirt	13	2	125.7	7.5%	117.5	90%	no offset
8/27 dirt	12	2	130.6	7.0%	122.1	94%	no offset



original TD @ 20 feet

FIELD ACTIVITY DAILY LOG

DAILY LOG				
DATE	8	28	14	
NO.	140705			
SHEET	0 1 OF	0 2		

PROJECT NAME: FFOR, KAFB BFF | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700- Safety briefing at trailer. Crew begins hauling backfill from KAFB landfill. Waste trucks haul.

0741- Crew continues compaction at DP066 DP067 DP068 DP326 and DP344. See page two for detailed notes.

0814- Place 1/8 inch gravel in DP028 DP029 DP025 DP026 and DP024 around 3-6 rock in hole.

0830- Prepare for 1st test of day in 66, 67, 68, 326 and 344. Air monitor and fall protection. 0.0 ppm benzene, 0.1 ppm VOCs.

0858- Begin soil compaction at DP028, DP029, DP025, and DP026 Compaction continues at 66, 67, 68, 326 344.

1030- 2nd round waste trucks pick up soil. Compaction continues at 66, 67, 68, 326, and 344.

1153- Lunch break for crew.

1221- Crew rigs trench box at 66, 67, 68, 326, and 344. Lift middle box off. USACE on site.

1301- Continue compaction at 66, 67, 68, 326 and 344.

1600- Finish hole at 5 ft test. 66, 67, 68, 326 and 344. Pull last trench box out of excavation. Window glass on excavator broken when operator tripped and caught himself on it. No injuries sustained. Safety officer completing incident paperwork. Ahern picks up more trench boxes from site.

1700- Lock site, finish paperwork.

8/28/14 [signature]

VISITORS ON SITE:
USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
Clear and hot in PM; breezy, clear, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: T. Kmukal, L. Glick, T. Hiltunen, G. McCutcheon, H. Stickle, I. Djoh, J. Cowton, C. Brinson, J. Ploss

SIGNATURE: [signature] DATE: 8/28/14

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG | DATE 8/28/14 | NO. 140705 | SHEET 2 OF 2

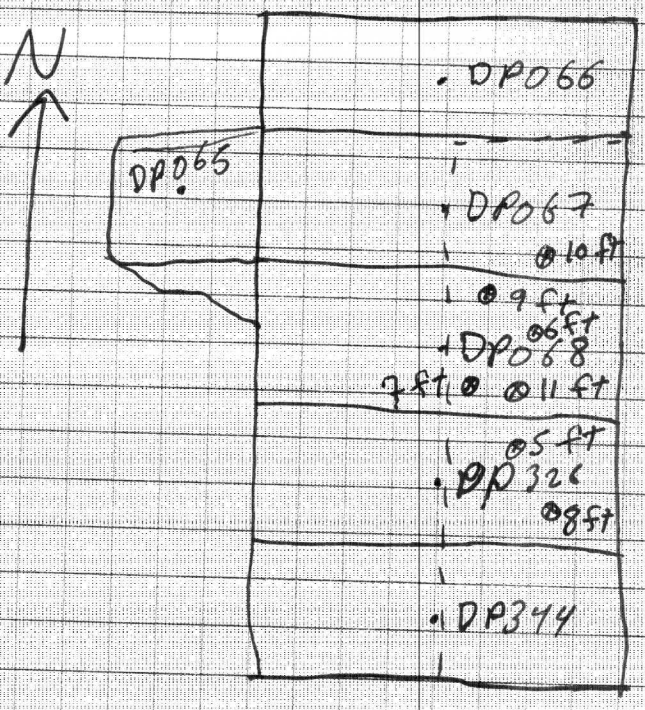
PROJECT NAME: Compaction at DP066, DP067 | PROJECT NO. 140705

FIELD ACTIVITY SUBJECT: DP068, DP326, and DP344

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

date	depth*	passes	WD	%M	DD	% compact
8/28/14	11 ft	2	131.8	5.2%	124.8	96%
8/28/14	10 ft	2	131.1	5.3%	123.5	95%
8/28/14	9 ft	2	127.4	5.4%	120.9	93%
8/28/14	8 ft	2	126.1	5.4%	119.6	92%
8/28/14	7 ft	2	127.9	4.8%	122.1	94%
8/28/14	6 ft	2	124.0	5.8%	117.2	90%
8/28/14	5 ft	2	124.7	6.1%	117.5	90%

~~8/28/14~~ TJK 8/28/14 ← test will be performed the next day at 4 feet.



* 20-15 feet bgs 3-6 inch rock with 1/8 inch gravel in pore space.

* 2 lifts placed 8/27/14 then test, 2 additional lifts done on 8/27/14 then test both separately.

----- = trench box

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	8	29	14
	NO.	140705		
	SHEET	0 1 OF	3	

PROJECT NAME: KAFB BFF FFOR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR compaction and excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety meeting at trailer
0710 - Waste trucks arrive, weigh empty load drive to landfill. Crew goes to KAFB landfill to haul clean backfill.
0740 - compact bottom of DP066, DP067, DP068, DP326 and DP344 at 5 feet after following trench box out on 8/28/14.
0805 - Add lift to 66, 67, 68, 326 and 344. Compact surface. Prepare for 4 ft test then move to new location.
0831 - Crew breaks down trench boxes.
0854 - Do 4 feet test at 66, 67, 68, 326 and 344. See page 2
0859 - Set up at DP024, DP025, DP026, DP028, and DP029 for compaction
0915 - Do 1st test at 24, 25, 26, 28, and 29. See details on page 3. Continue compaction at this location.
1020 - 2nd round waste trucks load, weigh.
1050 - Do 11-foot test at 24, 25, 26, 28 and 29. Continue compaction. See page 3 for details. Test every 1 ft.
1110 - Crew rigs box from end, trouble getting box up. Continue excavation at 79, 80, 81, 331.
1200 - Short lunch.
1220 - Continue compaction at 24, 25, 26, 28 and 29.
1352 - Pull box at little higher up. Continue compaction.
1515 - Compaction ongoing at 24, 25, 26, 28 and 29. Ongoing air monitoring. Finish excavation at 79, 80, 81, and 331.
1737 - Compacting last lift at 24, 25, 26, 28, and 29.
1800 - Finish compaction pull end shields out of box.
1845 - Finish rigging end shields.
1900 - Lock site and equipment. Finish pw after. End field time.

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot in PM ; clear and cool in AM some breeze

IMPORTANT TELEPHONE CALLS:

None important.

CB&I PERSONNEL ON SITE: Hiltunen, Kunkel, Stickle, Dieh, McCutcheon, Canton, Brinsen, Ploss, Wheat

SIGNATURE:

DATE:

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG | DATE 8 29 14 | NO. | SHEET 2 OF 3

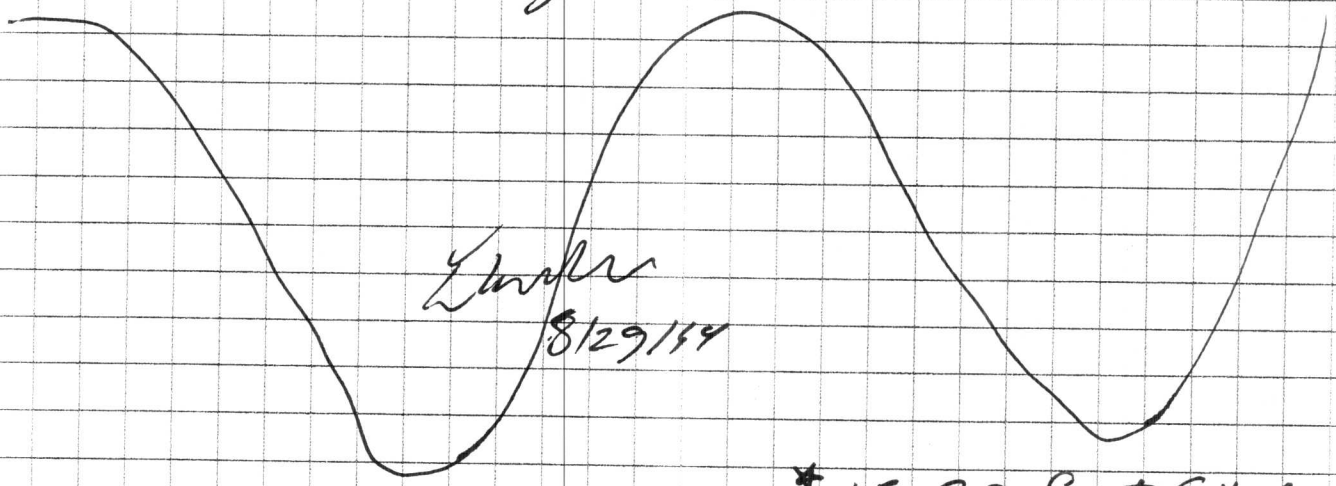
PROJECT NAME: Compaction at DP066, 67, 68, 326, and 344, DP065 | PROJECT NO.: 140705

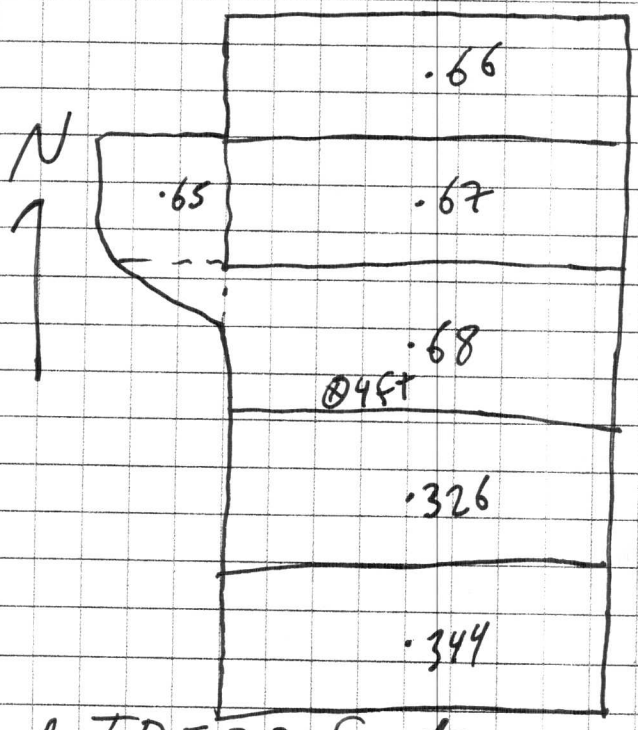
FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Depth*	date	passes	WD	% M	DD	% compact
4 ft†	8/29/14	4	126.6	5.7%	117.0	90%

† hole left at 4 feet bgs, move to new location to compact. 4 ft is safe height and what is





* 15-20 feet filled with 3-6 rock, pore space filled with 3/8 inch gravel.

* 1-foot thick soil lifts from 15 to 5 feet done on 8/27/14 and 8/28/14 each lift compacted.

original TD = 20 feet

FIELD ACTIVITY DAILY LOG CONTINUATION SHEET

DAILY LOG | DATE 8 29 14 | NO. | SHEET 3 OF 3

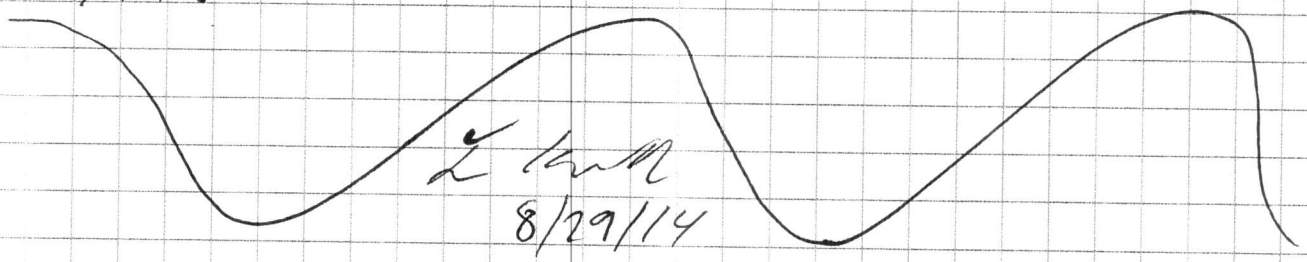
PROJECT NAME: Compaction at DP029, DP028, DP025, DP026, DP024 | PROJECT NO.: 140705

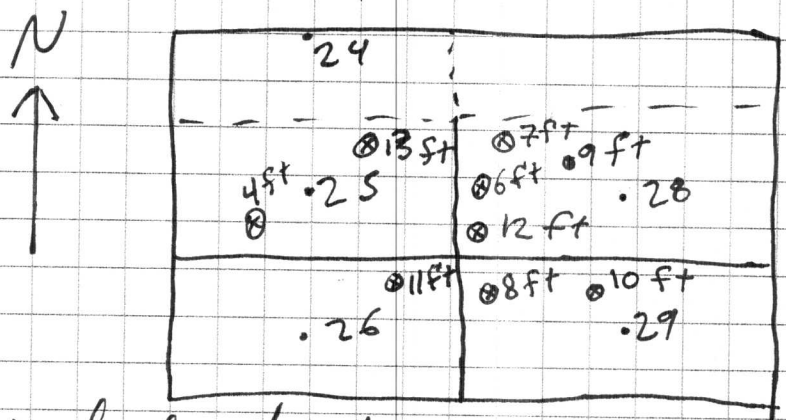
FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Depth*	Date	passes	WD	%M	DD	% compact
13 ft	8/29/14	2	125.3	5.2%	119.2	92 %
12 ft	8/29/14	2	126.8	5.7%	120.0	92 %
11 ft	8/29/14	2	124.1	5.3%	117.9	91 %
10 ft	8/29/14	2	125.4	6.0%	118.3	91 %
9 ft	8/29/14	2	127.5	6.3%	119.9	92 %
8 ft	8/29/14	2	125.1	6.3%	117.6	91 %
7 ft	8/29/14	2	126.8	6.5%	119.1	92 %
6 ft	8/29/14	2	129.1	6.5%	121.3	93 %
5 ft	8/29/14	2	133.1	6.4%	125.1	96 %
4 ft+	8/29/14	2	132.6	5.8%	125.3	96 %

+Leave hole at 4 feet bgs, safe hole for entry/exit.

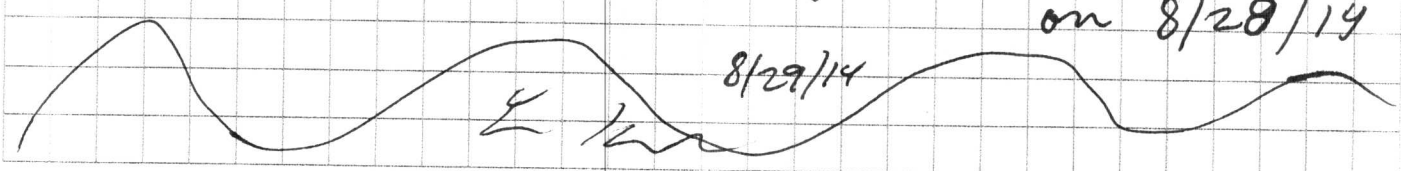




Original depth at 20 feet bgs

*20-15 filled with 3-6 inch rock pore space filled with 3/8 inch gravel.

*2 soil lift put in from 15-13 feet on 8/28/14



FIELD ACTIVITY
DAILY LOG

DAILY LOG	DATE	9	2	14
	NO.	14070	5	
	SHEET	0 1 OF	2	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer with crew. Crew begins hauling backfill from KAFB landfill. Crew begins excavation at DP071, DP074, DP075, and DP345. Belly dump trucks from Casias arrive and begin hauling contaminated soil to Valencia Regional.
0820 - Reach 10 feet on DP074.
0835 - Sample north wall of DP074.
0858 - Continue excavation at DP074, DP075, and DP345.
0900 - Begin backfilling with rock at DP095, DP096, DP099, and DP098.
0919 - Access location of DP083 DP082 and DP085 all very close to vapor well. Photograph location, these three cannot be dug without compromising well.
1030 - Halt excavation at DP071, small collapses occuring. Continue excavation at DP023, DP022 DP019 and DP020.
1100 - Reach 10 feet on DP023 sample south wall.
1230 - Continue excavation at DP023, DP022, DP019.
1231 - Disassemble remaining trench boxes. Continue backfill and compaction at DP095, DP096, DP099, and DP098.
1430 - Begin excavation at DP030.
1456 - Reach 10 ft on DP030. Sample north, east, and south wall. Continue excavation.
1545 - Reach 20 ft sample floor.
1600 - Log, QC, ship samples. Crew covers stockpile and locks down equipment.
1700 - End field time, finish paperwork.

VISITORS ON SITE: USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear and hot in PM ; clear and cool in AM

IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: Hiltunen, Kunkel, Glick, McCutcheon, Stickle, Drinsen, Miller, Dieh

SIGNATURE: L. Kunkel DATE: 9/2/14

FIELD ACTIVITY DAILY LOG
CONTINUATION SHEET

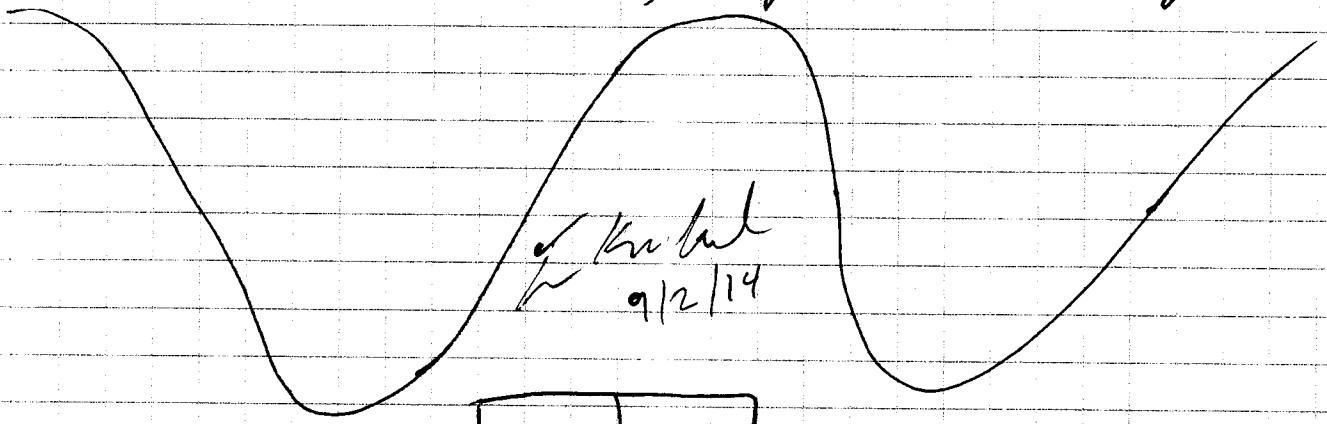
DAILY LOG	DATE	9	2	14
	NO.	140705		
	SHEET	2	OF	2

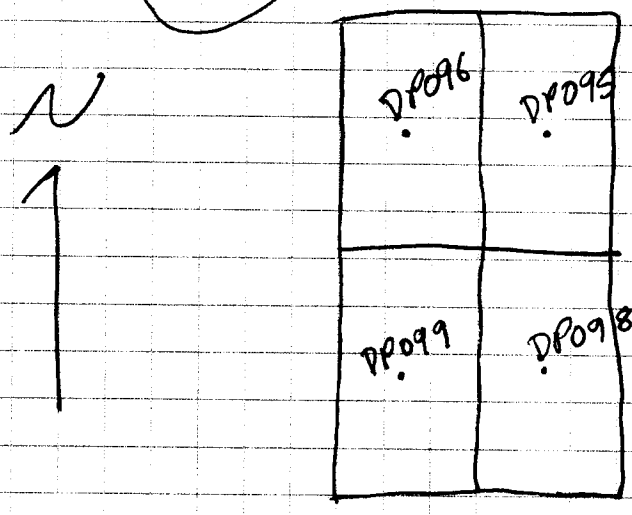
PROJECT NAME: KAFB BFF FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: Compaction at DP095, DP096, DP098, DP099

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Date	Depth	
9/2/14	20-15 feet	No testing until 4 feet 3-6 inch rock bgs reached
9/2/14	Fill in with	3/8 inch rock inbetween rock
9/2/14	14 feet	soil, 2 passes with compactor
9/2/14	13 feet	soil, 2 passes with compactor
9/2/14	12 feet	soil, 2 passes with compactor
9/2/14	11 feet	soil, 2 passes with compactor
9/2/14	10 feet	soil, 2 passes with compactor
9/2/14	9 feet	soil, passes with compactor
9/2/14	8 feet	soil, passes with compactor





original depth 20 feet bgs

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	3	14
	NO.	1407	05	
	SHEET	0 1 OF	2	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR excavation activities

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer with crew. Waste trucks arrive and haul soil. Crew hauls backfill from KAFB land fill.
0731 - Begin excavating Stepout east of DP028 and DP029. Continue compaction at DP095, DP096, DP098 and DP099. See notes on page 2.
0820 - Reach 10 ft on Stepout, Sample east wall. continue excavation.
0950 - Reach total depth on stepout for DP028 and DP029 at 20 ft bgs.
1031 - Begin excavation at DP037, DP038, DP039, and DP040, and stepout to South for DP038. Finish compaction at DP095, DP096, DP098, and DP099 at 4 ft bgs.
1035 - Begin placing rock in DP079, DP080, DP081, and DP331.
1140 - Begin placing rock in DP054 and start compacting soil. 2nd bound waste trucks arrive.
1153 - Reach 10 ft bgs at DP039 and DP040, sample.
1236 - USACE on site.
1259 - Continue excavation at DP040 and DP039. Continue backfill at DP054.
1427 - Reach 20 ft on DP040 and DP039. Finish Compaction to 4 ft bgs at DP054. Continue placing rock in DP079, DP080, DP081 and DP331.
1445 - Begin excavation at DP037 and DP038, and DP038 Stepout.
1535 - Go Log, QC, and Ship samples. Halt DP037 and DP038 @ 6 ft.
1700 - Finish pw, lock down equipment and site. End field time.

VISITORS ON SITE: USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear and hot in PM; clear and cool in AM

IMPORTANT TELEPHONE CALLS: None Important

CB&I PERSONNEL ON SITE: Kunkel, Glick, Stickle, McCutcheon, Miller, Brinsen, Diehl, Jenny Prince

SIGNATURE: L Kunkel DATE: 9/3/14

FIELD ACTIVITY DAILY LOG
CONTINUATION SHEET

DAILY LOG | DATE 9 3 14 | NO. 140705 | SHEET 2 OF 2

PROJECT NAME: KAFB BFF FFOR | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT: compaction, no testing required until 4ft bgs.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

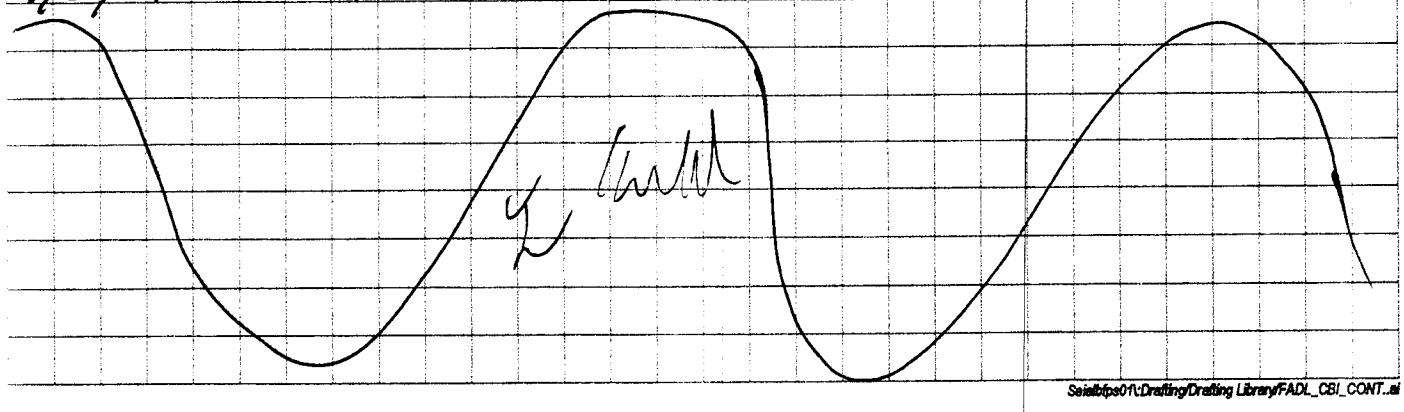
DP095 DP096 DP098 and DP099. Original depth 20ft. 20-15 feet 3-6 inch rock with 3/8" gravel fill. 1-ft soil lifts after.

Date	Depth ft	passes	material
9/3/14	8 ft	2	Soil
9/3/14	7 ft	2	Soil
9/3/14	6 ft	2	Soil
9/3/14	5 ft	2	Soil
9/3/14	4 ft	2	Soil

DP079 DP080 DP081 and DP331.
Original depth 20 ft bgs.
from 20-15 ft 3-6 inch rock with
3/8 inch gravel fill in pore space.

DP054 original depth 10 ft bgs

Date	Depth ft	passes	material
9/3/14	10	2	Soil
9/3/14	9	2	Soil
9/3/14	8	2	Soil
9/3/14	7	2	Soil
9/3/14	6	2	Soil
9/3/14	5	2	Soil
9/3/14	4	2	Soil



FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	4	14
	NO.	140705		
	SHEET	0 1 OF	1	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer with crew.
0715 - Crew prepares equipment. Trucks haul backfill from KAFB landfill. Waste trucks haul first load to Valencia.
0800 - Begin excavation at DP101. Reach 5 ft bgs.
0835 - Sample west, east, and south walls.
0910 - Continue excavation at DP101. Reach total depth of 10 ft bgs.
0930 - Sample floor at 10 ft bgs.
1001 - Begin excavation at DP071. Drive to scale to talk to Air Force Bio group on waste characterization.
1059 - Reach 10 ft on DP071, grab south wall sample.
1120 - Continue excavation at DP071.
1153 - Short break for lunch. Fuel loader at KAFB landfill. G. to home depot and buy poly-sheeting.
1310 - USACE on site, Finish excavation at DP071 at 20 feet bgs.
1340 - Begin excavation at DP084.
1420 - Reach 10 ft at DP084. Collect north, east, and south walls. GPS points.
1515 - Continue excavation at DP084.
1535 - Drive to trailer, log Samples, QC, ship.
1630 - Stop excavation at DP084 at 16 ft bgs.
1700 - Lock down equipment, Secure site. End field time. Finish paperwork.

VISITORS ON SITE:
USACE (Steve Carpenter)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ partly cloudy, clear and cool in AM hot in PM

IMPORTANT TELEPHONE CALLS:
Scott calls about waste trucks at scale, biomedical wants to do screening of soil.

CB&I PERSONNEL ON SITE: Kunkel, Glick, Stickle, McCutcheon, Brinson, Dich, Miller, Plass

SIGNATURE: [signature] DATE: 9/4/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	5	14
	NO.	140705		
	SHEET	0 1 OF 0 1		

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation area.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer. Crew begins hauling backfill from KAFB landfill. 1st round waste trucks arrive (2 trucks) to haul to Valencia.
0740 - Continue excavation at DP084.
0805 - Reach depth of 20 ft. Sample floor.
0825 - Continue excavation at DP037, DP038, and DP038 South stepout.
0900 - Reach 10 ft on DP037, DP038 and DP038 South stepout. Sample north wall as primary, sample south wall as stepout at 10 ft.
0945 - Continue excavation at DP037, DP038 and DP038 stepout.
1025 - 2nd round waste trucks arrive and load, weigh.
1100 - Reach total depth of 20 ft at DP037 DP038, and DP038 stepout. Collect floor sample.
1140 - Spray out last excavation, DP061
1210 - Begin excavation at DP061.
1259 - Reach 7.5 ft at DP061, Sample 4 walls
1400 - Continue excavation at DP061.
1428 - Reach total depth of 15 ft at DP061. Sample floor.
1459 - Log Samples QC prepare for shipping.
1550 - Crew comes back from KAFB landfill, lock down equipment, secure stockpile and site.
1630 - Lab picks up samples. Finish paperwork.
1700 - End field day.

9/5/14

VISITORS ON SITE: None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None

WEATHER CONDITIONS: Clear and hot in PM ; cloudy, cool in AM

IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: Kunkel, Click, Stickle, Brinsea, Miller, McCutcheon, Ploss, Dick

SIGNATURE: [signature] DATE: 9/5/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	8	14
	NO.	140705		
	SHEET	0 1 OF 01		

PROJECT NAME: KAFB BFF FFoR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFoR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer.
0715 - Crew goes onsite inspects equipment. Waste trucks arrive, haul 1st load to Valencia. Crew begins hauling clean backfill from KAFB landfill.
0805 - Print more labels and SCLs for stepouts.
0910 - Begin excavation for south stepout on DP023, and part of DP026.
0935 - Reach 10 ft bgs, sample south wall. GPS as well. Continue excavation.
1015 - Finish excavation at DP023 and DP026 stepout location. Begin excavation at DP030 stepout to south.
1100 - Sample south wall of DP030 stepout at 10 ft.
1125 - Continue excavation at DP030 TR#1.
1159 - Finish stepout of DP030 to 20 ft bgs. Crew continues hauling backfill.
1232 - Drop off recycle
1300 - Begin excavation at DP040 south stepout. 2nd round waste trucks arrive.
1320 - Reach 10 feet, sample south wall stepout. GPS location.
1400 - No further digging to total depth on DP040 stepout to prevent further collapse. USACE arrives on site. Crew begins hauling backfill from landfill.
1503 - Go buy printer toner.
1556 - Return to trailer log, QC, ship samples.
1630 - Runner picks up samples. Crew locks down equipment.
1700 - Finish pw. End field day.

VISITORS ON SITE:
USACE (Mark Phaneuf)

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
None

WEATHER CONDITIONS
~~Clear and hot~~ partly cloudy warm in AM; clear, cool in AM

IMPORTANT TELEPHONE CALLS:
None important

CB&I PERSONNEL ON SITE: Kimball, Glick, Hilkemeyer, McCutcheon, Stickle, Deitz, Miller, Brinsen, Plass

SIGNATURE: [signature] DATE: 9/8/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	9	14
	NO.	14070	S	
	SHEET	0 1 OF 0 1		

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety briefing at trailer with crew.
0715 - Crew begins hauling clean backfill from landfill. 1st waste truck arrives, weighs, loads, weighs full, proceeds to Valencia Regional.
0728 - Move excavator over to southern area on plywood to move jersey barriers onto flat bed trailer. Continue hauling backfill.
0950 - Waste truck arrives for load.
1040 - Truck returns to haul more jersey barriers
1101 - Drive to home depot, buy stakes.
1144 - Return to site, download GPS data.
1230 - Begin staking sample points in southern area, label points.
1340 - Load last jersey barriers in southern area, haul off.
1355 - Finish staking in southern area. Continue to haul clean backfill from KAFB landfill.
1412 - Dump truck dies, troubleshoot. Crew continues hauling backfill.
1545 - Crew returns from KAFB landfill. Cover contaminated soil stockpiles in poly sheeting.
1607 - Crew begins loading concrete w/ wooden electrical line rejects, and metal debris into dump trucks to remove from site in the morning.
1700 - Lock down equipment and site - End field time, finish paperwork.

L Kunkel

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot in PM ; cloudy and cool in AM

IMPORTANT TELEPHONE CALLS:

None important

CB&I PERSONNEL ON SITE: Kunkel, Glick, Hiltemon, Stickle, McCutcheon, Miller, Delta, Brinson

SIGNATURE: L Kunkel DATE: 9/9/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	10	14
	NO.	140705		
	SHEET	01 OF 01		

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700 - Safety brief at trailer, excavation has earlier meeting at about 6:30 a.m.
0711 - 1st round waste trucks arrive to haul.
0715 - Mr. Richard Buttz arrives on site. Give him site tour.
0740 - Begin stepout excavation at DP101 to 20 ft bgs.
0825 - Reach total depth at 20 sample floor.
0858 - Begin placing rock in DP071 from 20 ft to 15 ft, use 3"-6 inch rock then fill pore space with 3/8 inch gravel.
0911 - North stepout of DP084 will not be dug into grid DP083 because of well SVEW-04105 located very close to the north.
0953 - Communicate with landfill about additional tonnage.
1015 - Additional waste trucks arrive to haul soil, loadyweigh. contined compaction.
1200 - Short lunch break for crew.
1230 - Continue backfill operations at DP071, DP074, DP075, and DP345.
1441 - Ongoing compaction and backfill hauling. 3rd round wastel trucks arrive and haul contaminated soil to Valencia.
1500 - Mark Phanem from the USACE on site. Continue backfill at DP071 DP074, DP075, and DP345.
1600 - Log, QC', prepare samples.
1645 - Wak arrives picks up sample. Lock down equipment and site. End field time.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
USACE (Richard Buttz) USACE (Mark Phanemf)	None
WEATHER CONDITIONS ~~Clear~~ and hot in PM partly cloudy ; partly cloudy cool in AM	IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: Kunkel, Glick, Hiltunen, Stickle, McCutcheon, Brinsen, Deitz, Miller, Ploss

SIGNATURE: [signature] DATE: 9/10/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	11	14
	NO.	140705		
	SHEET	0 1 OF 0 1		

PROJECT NAME: KAFB BEF FFOR	PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: FFOR Excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0730 - Crew arrives first safety, go to KAFB landfill to haul backfill.
0730 - Safety meeting at trailer.
0815 - Truck inspection equipment inspections.
0830 - Prepare equipment for sampling. 1st round waste trucks arrive to haul contaminated soil to Valencia Region 2. Begin excavation DP061 step out.
0750 - Reach 7.5 ft Sample west wall of stepout.
0915 - Continue excavation at DP061, reach floor at 15 ft on stepout.
0935 - Finish total depth to 20 ft on DP040 stepout.
0949 - Continue backfill operations at DP074, DP075, and DP345. No testing required at any additional locations until 4 ft bgs is reached.
0956 - Go fuel company trucks.
0930 - Mark Phanenf on site. Continue backfilling.
1049 - Begin backfilling at DP076, DP077, DP078 and DP346. 2nd round waste trucks finish.
1200 - Short lunch break.
1230 - Continue backfilling. 3rd round waste trucks begin to arrive and haul contaminated soil.
1300 - Begin backfilling at DP079, DP080, DP081, and DP331 and DP084.
1350 - Collect trash and debris on site.
1500 - Dump trucks make last loads from KAFB landfill. Continue backfilling, complete locations above to 4 ft bgs.
1600 - Log QC, Prepare Sample, Runner picks up sample.
1700 - Lock down equipment and site. End field time.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
USACE (Mark Phanenf)	None
WEATHER CONDITIONS: Clear and hot in PM, partly cloudy co in AM	IMPORTANT TELEPHONE CALLS: None

CB&I PERSONNEL ON SITE: Kunkel, Glick, Hiltunen, Stickle, McCutcheon, Miller, Deitz, Brinsen, Pipes

SIGNATURE: [signature] DATE: 9/11/14

FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	09	15	14
	NO.			
	SHEET	0 1	OF	

PROJECT NAME: KAFB FFUR EXCAVATION

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: BACKFILL & COMPACTION

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

06:30 – MORNING TAILGATE MEETING
06:45 – BEGAN BACK FILL AND COMPACTION EFFORTS AT GRIDS # DP035, DP037, DP038, DP039, DP040 AND DP044.
BACK FILLED AND COMPACTED EACH GRID TO A DEPTH OF 4' bgs.
SOIL WAS PLACED IN 12" LIFTS AND COMPACTED USING THE CAT 320 EXCAVATOR W/PLATE COMPACTOR. EACH LIFT WAS COMPACTED MAKING AT A MINIMUM 2 PASSES WITH THE PLATE.
DEMOBILIZATION TASKS CONTINUED
SITE RESTORATION CONTINUED
SCHEDULED AMEC TO BE ONSITE FOR DENSITY TESTING @ 08:00 09/16/14
RECEIVED SAMPLE DATA LATE IN THE AFTERNOON FOR GRID # DP061.
THE WEST WALL REMAINS TO BE HOT AND ADDITIONAL SOIL WILL NEED TO BE REMOVED.
16:30 – END OF DAY

VISITORS ON SITE:
USACE; MARK P

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
NONE

WEATHER CONDITIONS
Clear and hot

IMPORTANT TELEPHONE CALLS:
NONE

CB&I PERSONNEL ON SITE: T. HILTUNEN, H. STICKLE, G. MCCUTCHEON, C. BRINSER

SIGNATURE:

DATE: 09/15/14

FIELD ACTIVITY DAILY LOG

DAILY LOG	DATE	09	16	14
	NO.			
	SHEET	OF		

PROJECT NAME: KAFB FFOR EXCAVATION | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: BACKFILL & COMPACTION / DENSITY TESTING / SOIL EXCAVATION

06:30 – MORNING TAILGATE SAFETY MEETING AND JSA REVIEW

06:50 – EXCAVATED ADDITIONAL STEPOUT SOIL AT GRID # DP061 STOCKPILED SOIL ON POLY SHEETING FOR LATER T&D.

07:35 – COLLECTED REQUIRED SOIL SAMPLES AT GRID # DP061 AT 7.5' BGS.

07:45 – BEGAN PLACEMENT OF BACK FILL LIFTS IN DENSITY TESTING ZONES #5 AND #6

08:05 – AMEC ONSITE AND PERFORMED DENSITY TESTS IN ZONES #1, #2, #5 AND #6

09:00 – AMEC OFFSITE TO ANOTHER PROJECT. CREW CONTINUED TO PLACE 12" SOIL LIFTS IN ZONES #5 AND #6

11:15 – AMEC BACK ONSITE AND CONTINUED DENSITY TESTING TYE 12" LIFTS IN ZONES #5 AND #6

12:00 – LUNCH (AMEC DEPARTED)

12:30 – CONTINUED TO COMPLETE TYE 12" LIFTS OF SOIL IN ZONES #5 AND #6 TO FINISH GRADE. PLACED LIFTS AND COMPACTED WITH PLATE.

13:30 – AMEC BACK ONSITE AND CONTINUED WITH DENSITY TESTING IN ZONES #5 AND #6 TO FINISH GRADE

14:30 – AMEC DEPARTS SITE. CREW SPENDS REMAINDER OF DAY PLACING BACK FILL AND COMPACTING IN ZONES #1 AND #2 BRINGING THEM TO 3' BGS.

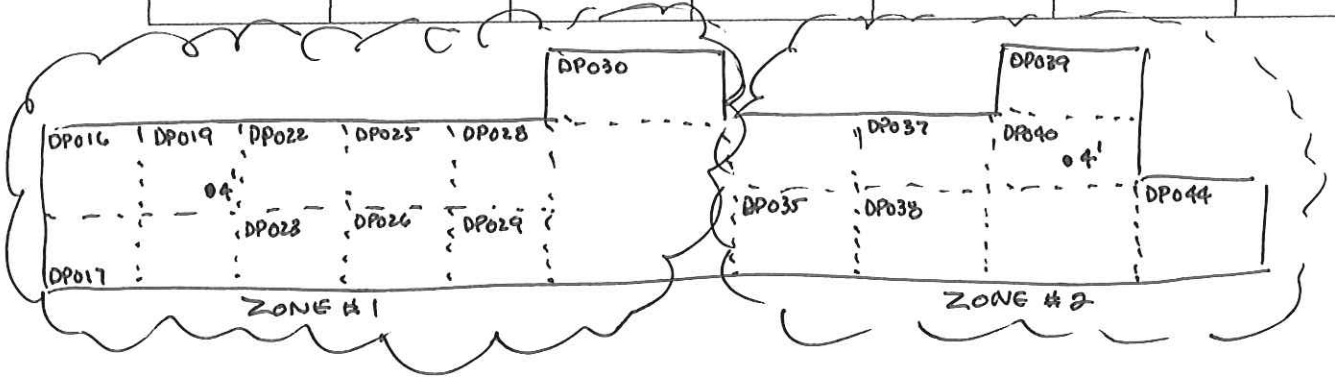
17:00 – END OF DAY

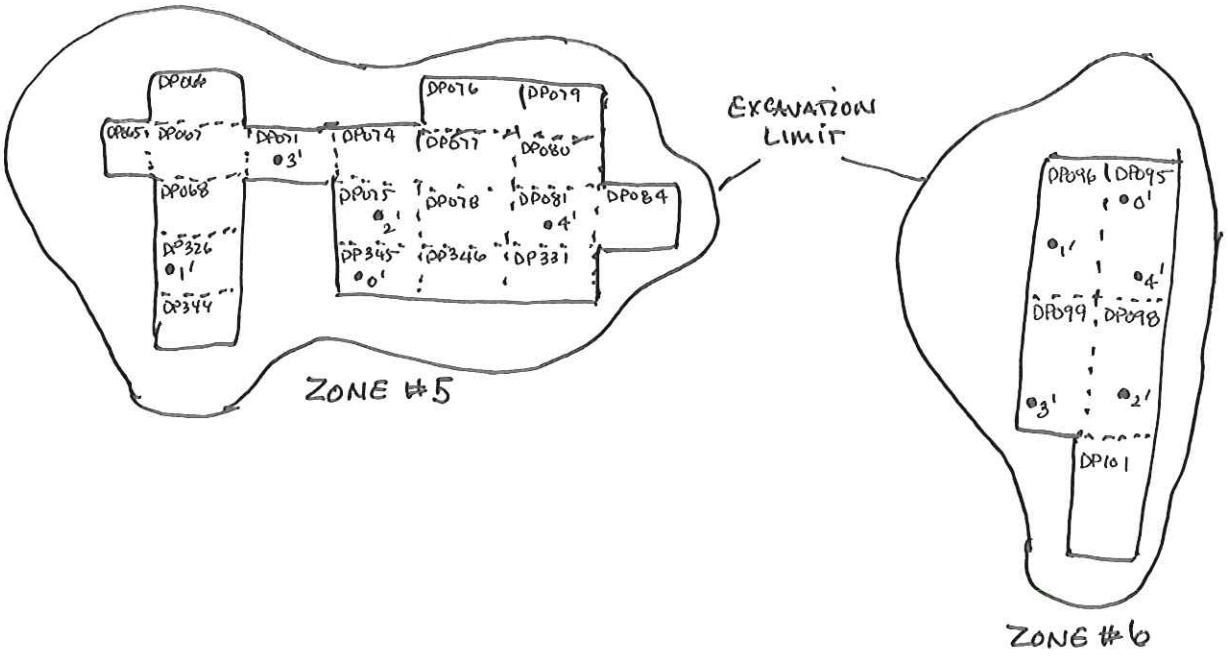
VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: T. HILMINEN, T. KUNKEL, L. GLICK, H. STICKLE, G. MCCUISTION, C. BRINSER

SIGNATURE: DATE: 09/16/14

DATE	DEPTH	PASSES	WET DENSITY	MOISTURE %	DRY DENSITY	% COMPACTED
09/16/14	4'	2	126.0	6.0	118.9	91
	4'	2	125.4	5.7	118.7	91
	3'	2	123.4	4.6	118.4	91
	4'	2	127.0	7.0	118.7	91
	3'	2	129.8	3.5	125.4	97
	4'	2	122.9	5.0	117.0	90
	2'	2	121.3	3.5	117.3	90
	1'	2	126.0	5.0	120.0	92
	1'	2	122.0	4.3	117.0	90
	2'	2	122.4	4.7	117.0	90
	0'	2	123.3	5.0	117.4	90
	0'	2	123.9	5.0	118.1	91





FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	09	17	14
	NO.			
	SHEET	OF		

PROJECT NAME: KAFB FFOR EXCAVATION	PROJECT NO.: 140705
FIELD ACTIVITY SUBJECT:	
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: BACK FILL & COMPACTION / DENSITY TESTING / DEMOBE	

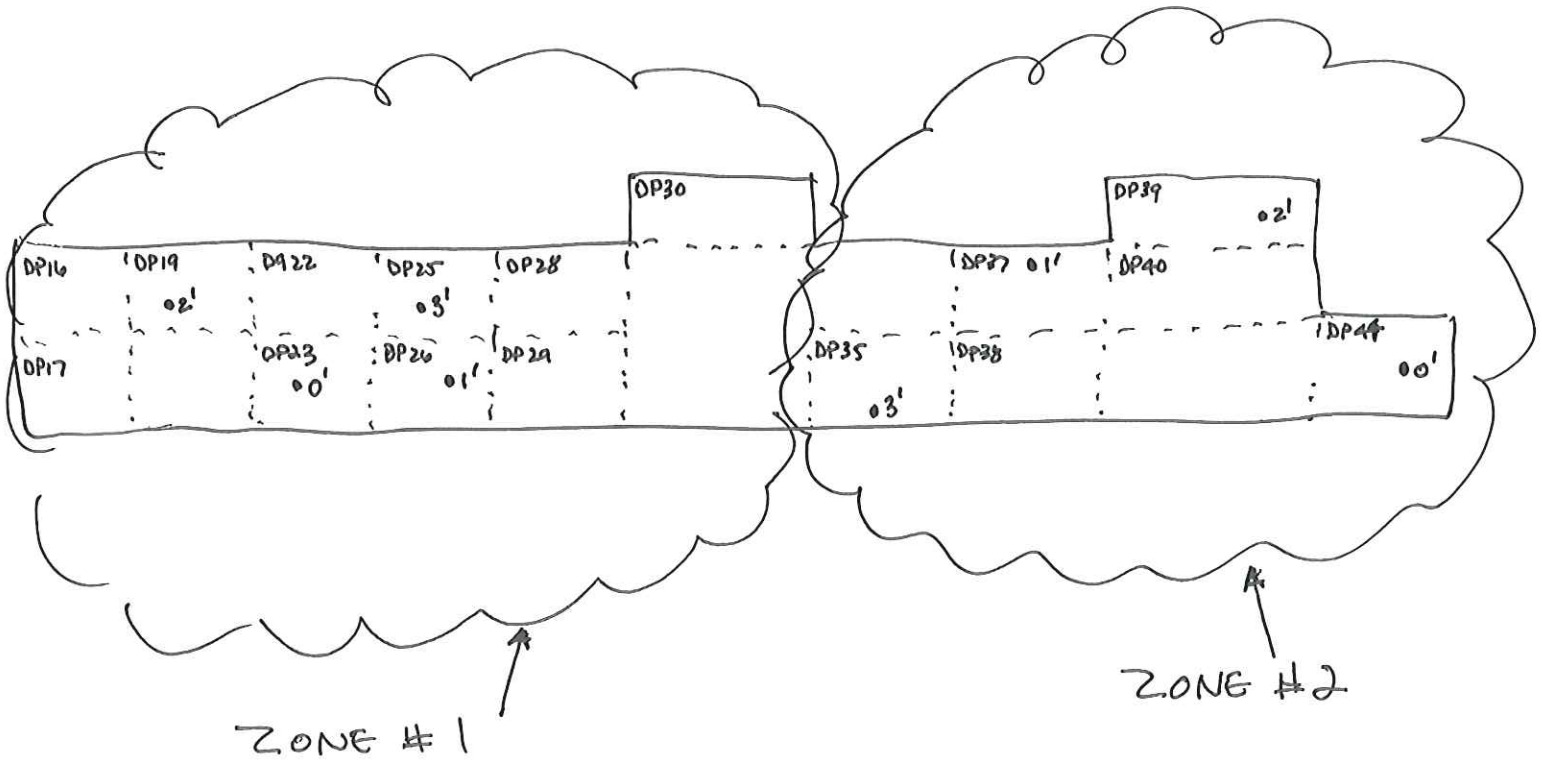
06:30 – DAILY TAILGATE SAFETY MEETING
07:00 – LOADED OUT REMAINING SOIL FOR T&D FROM GRID # DP061.
CONTINUED WITH BACKFILL & COMPACTION EFFORTS IN ZONES #1 AND #2
08:41 – RHINO TRUCK IS DISPATCHED TO LANDFILL WITH CONTAMINATED SOIL AFTER DELAY BY THEIR MANAGER.
BACKFILL AND COMPACTION CONTINUED ZONES #1 AND #2
09:30 – AMEC ONSITE TESTING 2' lOOSE AND 3' lOOSE FILL LAYERS IN ZONES #1 AND #2
10:00 – AMEC OFFSITE
CREW CONTINUES TO PLACE 12" LIFTS of BACK FILL SOIL IN ZONES #1 AND #2
DEMOBILIZATION EFFORTS CONTINUE
12:00 – LUNCH
12:30 – BACKFILL AND COMPACTION CONTINUE ZONES #1 AND #2
13:20 – AMEC BACK ONSITE PERFORMING DENSITY TESTING IN ZONES #1 AND #2
15:00 – AMEC DEPARTS SITE
CREW CONTINUES SITE MAINTENANCE AND CLEANUP
16:30 – END OF DAY

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
NONE	NONE
WEATHER CONDITIONS: Cloudy, Rain throughout Day	IMPORTANT TELEPHONE CALLS: NONE

CB&I PERSONNEL ON SITE: T. Hudson, M. Stickle, G. McCutcheon, C. Brinser

SIGNATURE: DATE: 09/17/14

DATE	DEPTH	PASSES	WET DENSITY	MOISTURE %	DRY DENSITY	% COMPACTED
09/17/14	2'	2	125.2	4.3	120.0	92
	3'	2	126.9	5.5	120.3	93
	3'	2	123.5	5.6	117.0	90
	2'	2	125.2	4.8	119.5	92
	0'	2	127.1	4.5	121.6	94
	1'	2	130.7	5.6	123.7	95
	1'	2	126.5	4.6	121.0	93
	0'	2	125.3	4.8	119.5	92



FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	09	18	14
	NO.			
	SHEET	OF		

PROJECT NAME: KAFB FFOR EXCAVATION | PROJECT NO.: 140705

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: BACKFILL & COMPACTION / DENSITY TESTING / DEMOBE

06:30 - MORNING SAFETY MEETING & JSA REVIEW
06:50 - PERFORMED BACK FILL AND COMPACTION EFFORTS TO 4' BGS AT ZONE # 3/4.
09:30 - AMEC ONSITE AND PERFORMED DENSITY TESTING IN ZONE # 3/4 FROM 4' BGS TO 0'.
10:15 - AMEC OFFSITE
USED REMAINING IMPORTED FILL MATERIAL TO FILL LOW AREAS THROUGHOUT THE PROJECT SITE.
STAKED OUT EXCAVATION AREAS FOR FUTURE SURVEY.
CONTINUED DEMOBILIZATION TASKS.
GRADED ENTIRE SITE
BEGAN EQUIPMENT DECONTAMINATION
BEGAN CALLING EQUIPMENT OFF RENT.
SHIPPED RETRIEVAL SYSTEM BACK TO HAZCO
16:30 - END OF DAY

VISITORS ON SITE:
USACE - STEVE CARPENTER

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
NONE

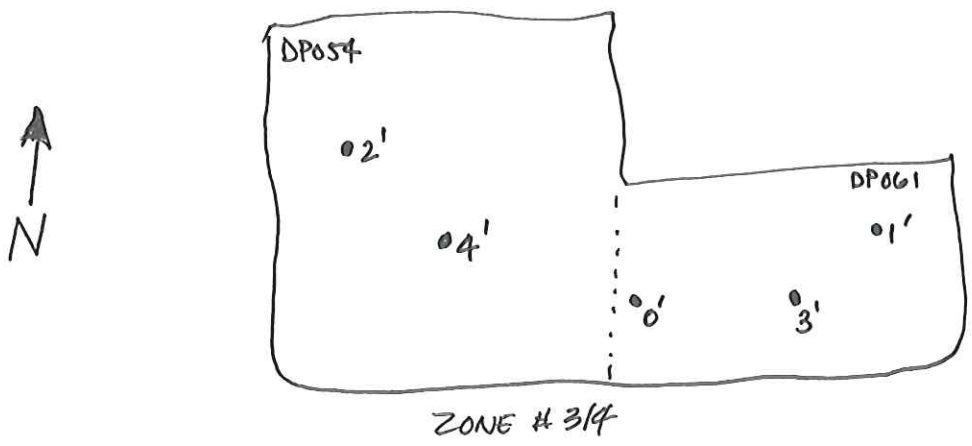
WEATHER CONDITIONS:
WARMER / PARTLY CLOUDY
HIGH 80° LOW 59°

IMPORTANT TELEPHONE CALLS:
NONE

CB&I PERSONNEL ON SITE: T. HILTUNEN, H. STICKLE, G. MCCUTCHEON, C. BRINSER

SIGNATURE: DATE: 09/18/14

DATE	DEPTH	PASSES	WET DENSITY	MOISTURE %	DRY DENSITY	% COMPACTED
09/18/14	3'	2	123.5	5.3	117.3	90%
↓	4'	2	124.2	5.5	117.7	91%
	1'	2	130.6	6.0	123.3	95%
	2'	2	136.1	5.5	129.0	99%
	0'	2	127.1	5.0	121.1	93%



FIELD ACTIVITY
DAILY LOG

DAILY LOG				
	DATE	9	19	14
	NO.	140705		
	SHEET	0 1 OF	0 1	

PROJECT NAME: KAFB BFF FFOR | PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Finish site cleanup, stake sample points post excavation

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0800 - Arrive on site. Prepare equipment.
0820 - Begin staking sample points. Crew prepares heavy equipment for return.
1200 - Finish staking all samples in north area.
1205 - QC check all sample stakes. Heavy equipment rentals come pick up equipment.
1245 - End field time, lock trailer and site. Return to office. Excavation crew leaves site.

9/19/14

VISITORS ON SITE:

None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS

Clear and hot in PM, partly cloudy, warm in AM

IMPORTANT TELEPHONE CALLS:

None

CB&I PERSONNEL ON SITE: Hiltmen, Kunkel, Stickle, McCutcheon, Brinsen

SIGNATURE: DATE: 9/19/14

FIELD ACTIVITY
DAILY LOG

[redacted]

DAILY LOG				
	DATE	09	25	14
	NO.			
	SHEET	0 1	OF	1

KAFB

PROJECT NAME: BFF, FFDR

PROJECT NO: 140705

FIELD ACTIVITY SUBJECT: Survey of sample points

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Safety meeting / daily planning
0730: prepare documents / gather maps for survey
0800: High Mesa on site, begin surveying in Southern area, continue to northern
1000: complete sample + corner points, check in to QC points (brass survey point) near Truman gate
1015: Return to trailer to complete paperwork
1020: completed task, begin housekeeping (see other FADL)

VISITORS ON SITE: Joe Solomon
High Mesa

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS
Clear and ~~hot~~ warm

IMPORTANT TELEPHONE CALLS:

CB&I PERSONNEL ON SITE: Lindsy Glick

SIGNATURE: [signature]

DATE: 09/25/14

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-001

Location Code: **FFOR-BACKFILL-01**
Sample Number: **FFOR-BF-0001**
Sample Name: **FFOR-BACKFILL-01-SO-FFOR-BF-0001-R1**
Sampling Method: **CP**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposible aluminum pan, plastic scoop, gloves

Task: **140705-FFOR-EXC**
Collection Date: 6/20/14
Collection Time: 1045
Start Depth: 0 ft
End Depth: 0 ft
Sample Matrix: **SO**
Sample Team: TK, MC

QC Partners:
(TB) (ER) (FB)

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type	
SW8015B-GRO	N	A	1	5	g	TerraCore	} 1 terracore Kit
SW8260B (VOCs)	N	A	1	5	g	TerraCore	
SW8270D (SVOCs)	N	B	1	8	oz	CWM	} 1 8 ounce
TPH 8015 DRO	N	C	1	8	oz	CWM	
RCRA metals (6010B/7471A)				8	oz	cwm	} 1 8 ounce
Pesticides (SW846 8081A)				8	oz	cwm	
herbicides (8151A)				8	oz	cwm	
TSR pesti PAHs (8270D SIM)				8	oz	cwm	
PCBs (8082)							

Comments: no odor
PID = 0.0 ppm

Sketch Location:

Logged BY / Date: 6/20/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC-0002

Location Code: **FFOR-EXC-01**
Sample Number: **FFOR-CF-0001**
Sample Name: **FFOR-EXC-01-DS-FFOR-CF-0001-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: Scoop, aluminum pan, nitriles
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 6/30/14
Collection Time: 1029
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

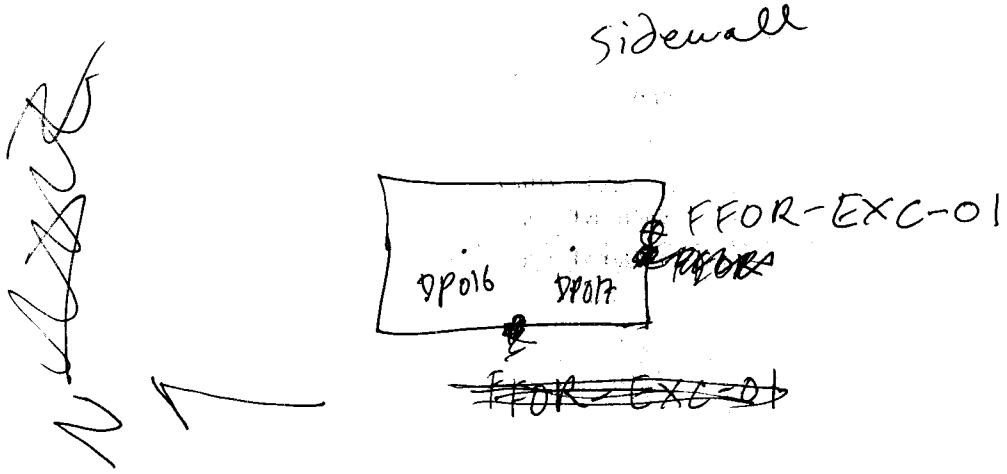
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP016, DP017 ; PID: 0.3 ppm
Coor. : 35°02'58.586"N ; 106°34'53.539"W

Sketch Location:



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC0002

Location Code: **FFOR-EXC-02**
Sample Number: **FFOR-CF-0002**
Sample Name: **FFOR-EXC-02-DS-FFOR-CF-0002-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 6/30/14
Collection Time: 1036
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

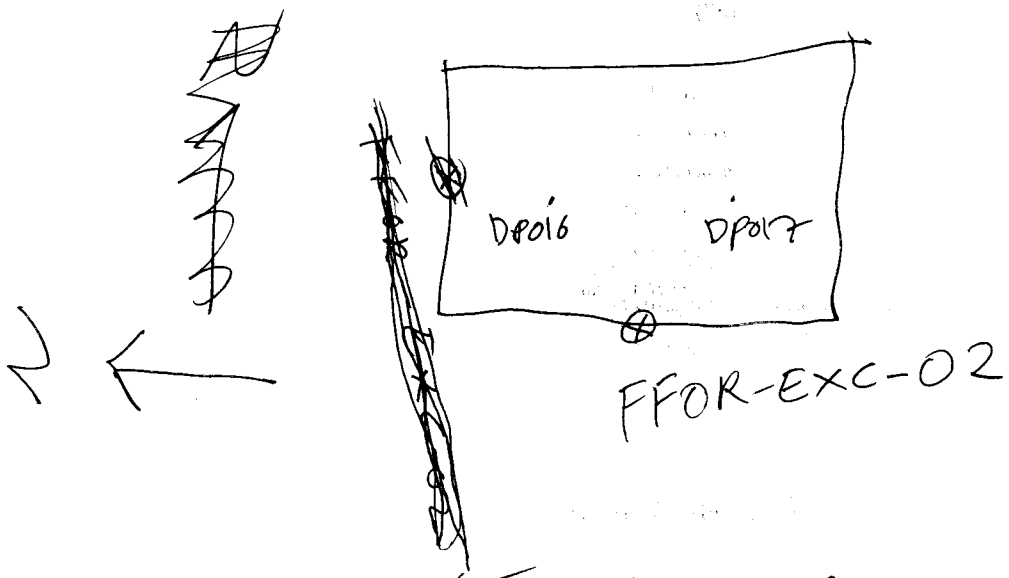
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP016, DP017; PID: 0.5 ppm
Coor.: 35°02'58.660"N, 106°34'53.593"W

Sketch Location:



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC-0003

Location Code: **FFOR-EXC-03**
Sample Number: **FFOR-CF-0003**
Sample Name: **FFOR-EXC-03-DS-FFOR-CF-0003-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 6/30/14
Collection Time: 1046
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

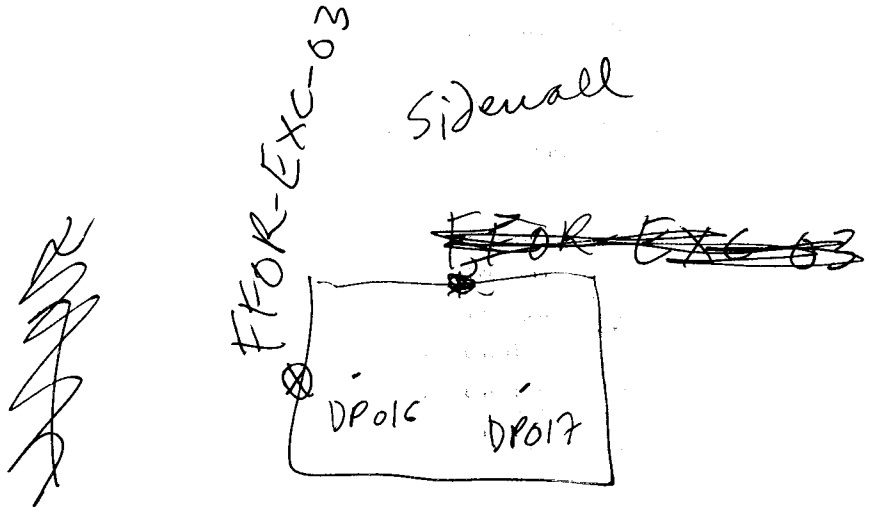
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP016, DP017, PID: 52 ppm

coor.: 35°02'58.720"N, 106°34'53.509"W

Sketch Location:



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC-0002

Location Code: **FFOR-EXC-04**
Sample Number: **FFOR-CF-0004**
Sample Name: **FFOR-EXC-04-DS-FFOR-CF-0004-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 6/30/14
Collection Time: 1055
Start Depth: 5.0 ft
End Depth: 5.0 ft
Sample Matrix: **SO**
Sample Team: TK LG
ERPIMS Values:
Sacode:
Lot Control#:

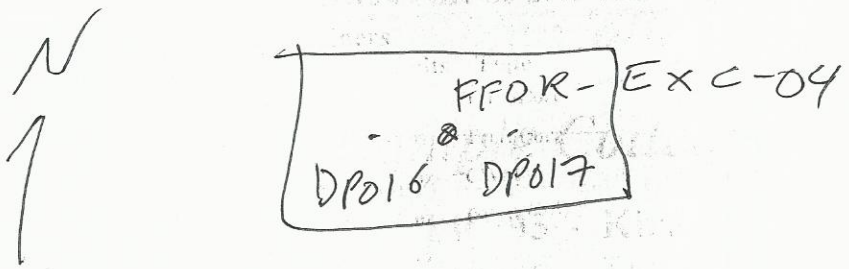
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP016, DP017. PID: 0.0 ppm
coor: 35°02'58.664"N, 106°34'53.504"W

Sketch Location:

floor sample



Logged BY / Date: 6/30/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC-0002

Location Code: **FFOR-EXC-05**
Sample Number: **FFOR-CF-0005**
Sample Name: **FFOR-EXC-05-DS-FFOR-CF-0005-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible

Task: **140705-FFOR-EXC**
Collection Date: 6/30/14
Collection Time: 1143
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

QC Partners:
(TB) (ER) (FB)

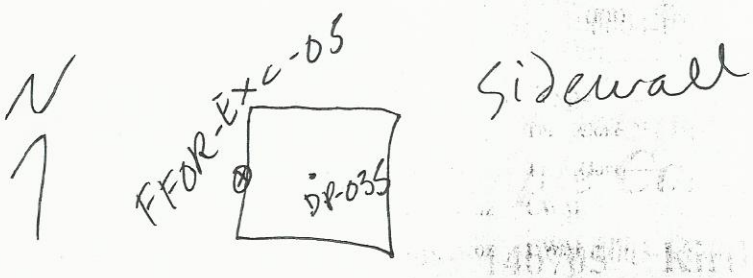
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP-035, PID: 0.1 ppm
relect electric line at 2.5 ft, old concrete rubble observed at 2.5 ft

Sketch Location: coor.: 35°02'58.616"N, 106°34'52.852"W



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

FFOR

RFA / COC Number: 140705-EXC-0002

Location Code: **FFOR-EXC-06**
Sample Number: **FFOR-CF-0006**
Sample Name: **FFOR-EXC-06-DS-FFOR-CF-0006-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 6/30/14
Collection Time: 1151
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

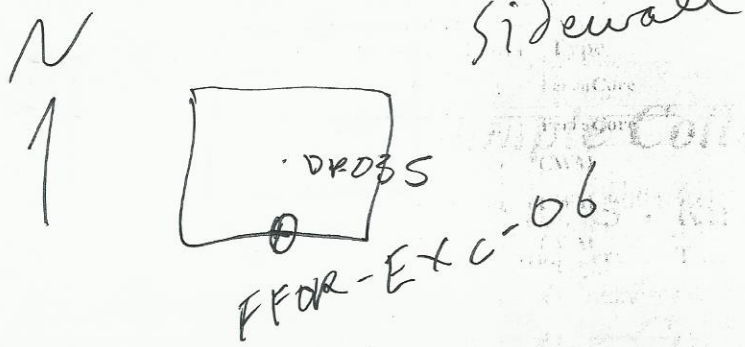
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP-035, PID: 0.0 ppm

coor.: 35°02'58.592"N, 106°34'52.767"W

Sketch Location:



Logged BY / Date: 6/30/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0002

Location Code: **FFOR-EXC-07**
Sample Number: **FFOR-CF-0007**
Sample Name: **FFOR-EXC-07-DS-FFOR-CF-0007-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) **(ER)** **(FB)**

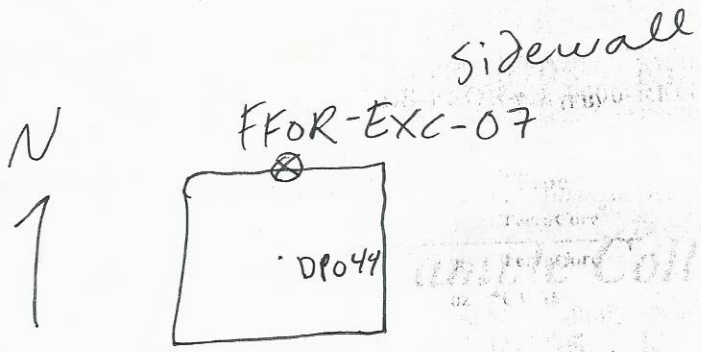
Task: **140705-FFOR-EXC**
Collection Date: 6/30/14
Collection Time: 1452
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP044, PID: 16.2 ppm
coor.: 35°02' 58.922" N
106°34'52.521" W

Sketch Location:



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0002

Location Code: **FFOR-EXC-08**
Sample Number: **FFOR-CF-0008**
Sample Name: **FFOR-EXC-08-DS-FFOR-CF-0008-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible

QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 6/30/14
Collection Time: 1458
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

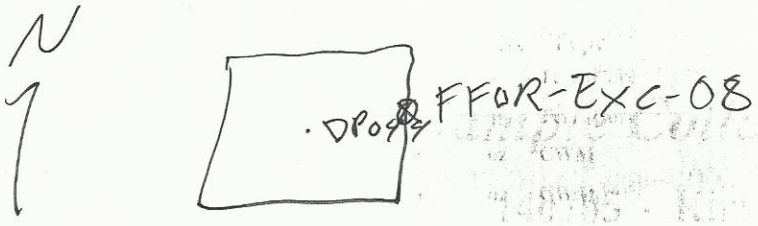
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP044, PID: 2.1 ppm
Coor.: 35°02'58.733"N, 106°39'52.200"W

Sketch Location:

Sidewall



Logged BY / Date: 6/30/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0003

Location Code: **FFOR-EXC-09**
Sample Number: **FFOR-CF-0009**
Sample Name: **FFOR-EXC-09-DS-FFOR-CF-0009-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14 TSK
Collection Time: 0943
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP044, PID: 1.3 ppm
coor: 35°02'58.678"N, 106°39'52.431"W

Sketch Location:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0003

Location Code: **FFOR-EXC-10**
Sample Number: **FFOR-CF-0010**
Sample Name: **FFOR-EXC-10-DS-FFOR-CF-0010-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/1/14
Collection Time: 1114
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

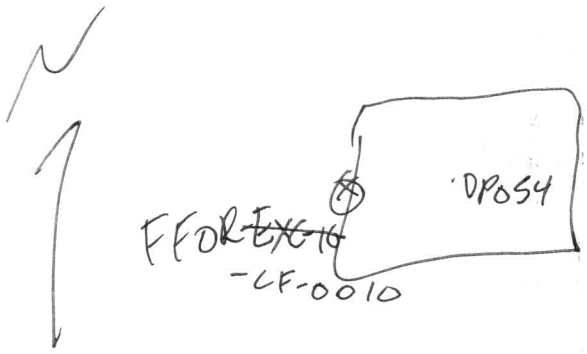
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP054 PID: 1.6 ppm

Coor.: 35°02'58.705"N, 106°34'52.140"W

Sketch Location:



Logged BY / Date: 7/1/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0003

Location Code: **FFOR-EXC-10**
Sample Number: **FFOR-CF-0011**
Sample Name: **FFOR-EXC-10-DS-FFOR-CF-0011-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/1/14
Collection Time: 1114
Start Depth: 5ft
End Depth: 5ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

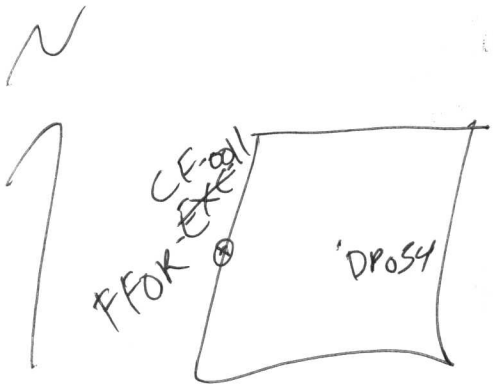
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: DP054 PID: 1.6ppm
coor.: see parent

Sketch Location:

N



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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0003

Location Code: **FFOR-EXC-11**
Sample Number: **FFOR-CF-0012**
Sample Name: **FFOR-EXC-11-DS-FFOR-CF-0012-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/1/14
Collection Time: 1133
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

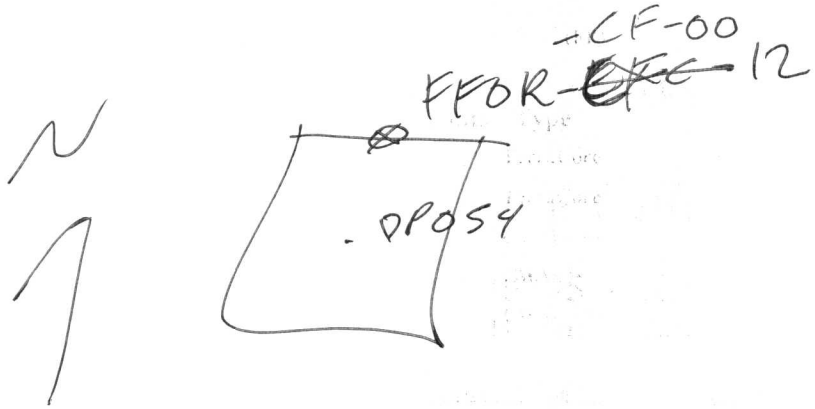
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP054 PID: 0.0 ppm
coor.: 35°02'58.716"N, 106°34'52.071"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0003

Location Code: **FFOR-EXC-12**
Sample Number: **FFOR-CF-0013**
Sample Name: **FFOR-EXC-12-DS-FFOR-CF-0013-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/1/14
Collection Time: 1141
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: SO
Sample Team: TK, LG

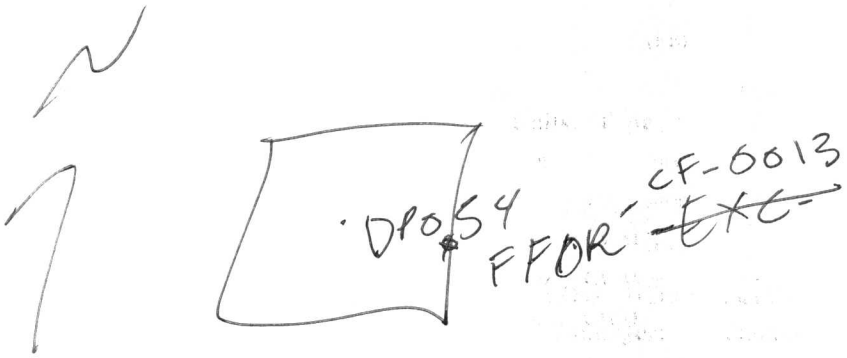
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP054 PID: 0.0 ppm
coor: 35°02'58.682"N, 106°34'52.013"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0012

Location Code: **FFOR-EXC-39**
Sample Number: **FFOR-CF-0042**
Sample Name: **FFOR-EXC-39-DS-FFOR-CF-0042-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

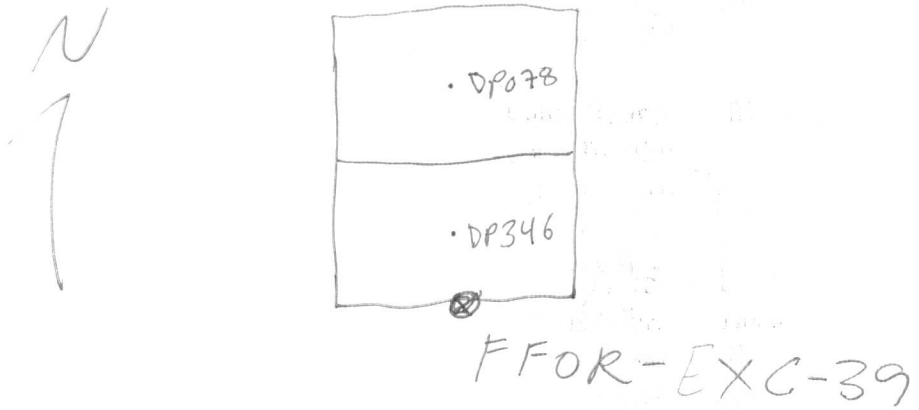
Task: 140705-FFOR-EXC
Collection Date: 8/7/14
Collection Time: 1026
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 1082 ppm
Coor. = 1272862 7.01 ft N, 1167394.44 ft E
associated with DP078, DP346

Sketch Location:



Logged BY / Date: [signature] 8/7/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC 0003

Location Code: **FFOR-EXC-13**
Sample Number: **FFOR-CF-0014**
Sample Name: **FFOR-EXC-13-DS-FFOR-CF-0014-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/1/14
Collection Time: 1151
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

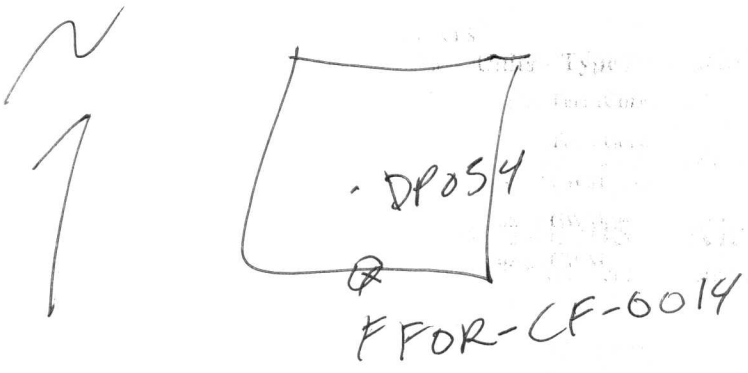
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP054, PID: 0.0 ppm
Coor.: 35°02'58.643"N, 106°34'52.062"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0003

Location Code: **FFOR-EXC-14**
Sample Number: **FFOR-CF-0015**
Sample Name: **FFOR-EXC-14-DS-FFOR-CF-0015-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/1/14
Collection Time: 1410
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK LG

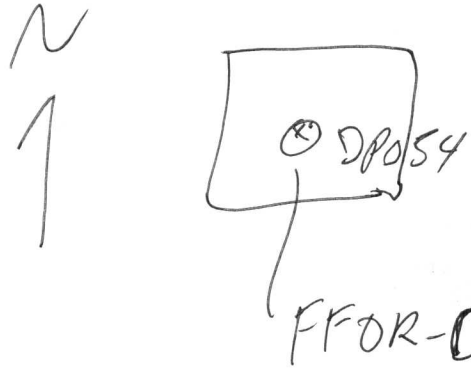
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP054 PID: 2.2 ppm
coor.: 35°02'58.665"N, 106°34'52.072"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-15**
Sample Number: **FFOR-CF-0016**
Sample Name: **FFOR-EXC-15-DS-FFOR-CF-0016-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

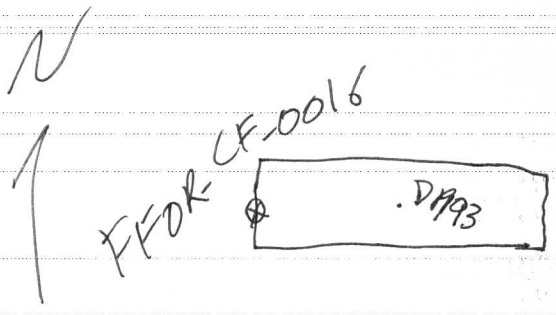
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1217
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: SO
Sample Team: TK LG
ERPIMS Values Entered

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID: 0.2 ppm
coor.: 35°02'53.982" N, 106°34'48.926" W

Sketch Location:



Logged BY / Date: [signature] 7/2/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0007

Location Code: **FFOR-EXC-15**
Sample Number: **FFOR-CF-0016-MS**
Sample Name: **FFOR-EXC-15-DS-FFOR-CF-0016-MS-MS**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **MS**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

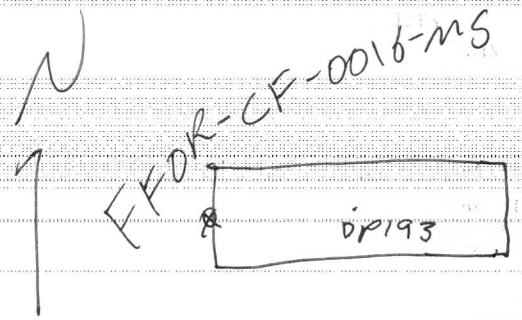
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1217
Start Depth 5 ft
End Depth 5 ft
Sample Matrix: SO
Sample Team TK, LG
ERPIMS Values:
Special
Lot Code#

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, see parent
PID: 0.2 ppm

Sketch Location:



Logged BY / Date: 7/2/14
Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0004

Location Code: **FFOR-EXC-15**

Sample Number: **FFOR-CF-0016-MSD**

Sample Name: **FFOR-EXC-15-DS-FFOR-CF-0016-MSD-MSD**

Sampling Method: **G**

Sample Type: **DS** *Sample Purpose:* **MSD**

Sampling Equip: disposible

QC Partners:

(TB) (ER) (FB)

Task: 140705-FFOR-EXC

Collection Date: 7/2/14

Collection Time: 1217

Start Depth: 5 ft

End Depth: 5 ft

Sample Matrix: SO

Sample Team: TK, LG

ERPIMS Values:

Source:

Lat Comment:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID: 0.2 ppm see parent

Sketch Location:

N

FFOR-CF-0016-MSD

DP193

Logged BY / Date: 7/2/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0004

Location Code: FFOR-EXC-16
Sample Number: FFOR-CF-0017
Sample Name: FFOR-EXC-16-DS-FFOR-CF-0017-REG
Sampling Method: G
Sample Type: DS Sample Purpose: REG
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

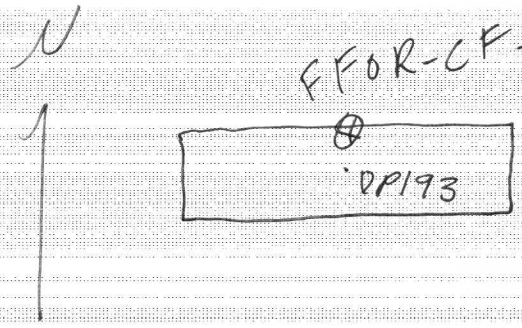
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1228
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Media:
Lab Code:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID: 0.3 ppm
benzene PID: 0.0 ppm
coor.: 35°02'54.032"N 106°34'48.795"W

Sketch Location:



Logged BY / Date: 7/2/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-17**
Sample Number: **FFOR-CF-0018**
Sample Name: **FFOR-EXC-17-DS-FFOR-CF-0018-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1240
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID: 0.0 ppm

coor.: 35°02'53.974"N, 106°34'48.974"W

Sketch Location:

N

Logged BY / Date: [signature] 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-18**
Sample Number: **FFOR-CF-0019**
Sample Name: **FFOR-EXC-18-DS-FFOR-CF-0019-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

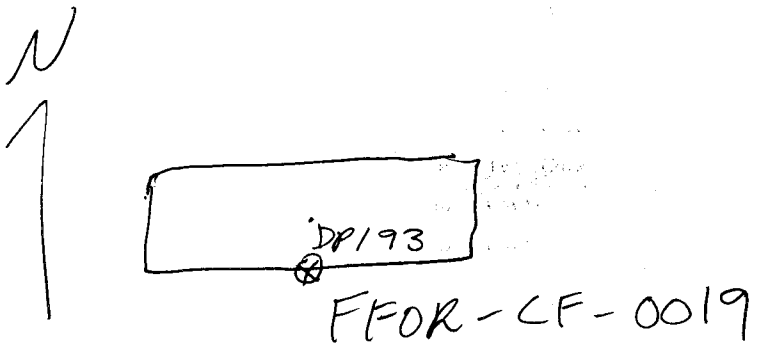
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1250
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID=0.0 ppm
coor.: 35°02'53.963"N, 106°34'48.804"W

Sketch Location:



Logged BY / Date: 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 · Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-19**
Sample Number: **FFOR-CF-0020**
Sample Name: **FFOR-EXC-19-DS-FFOR-CF-0020-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/2/14
Collection Time: 1343
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

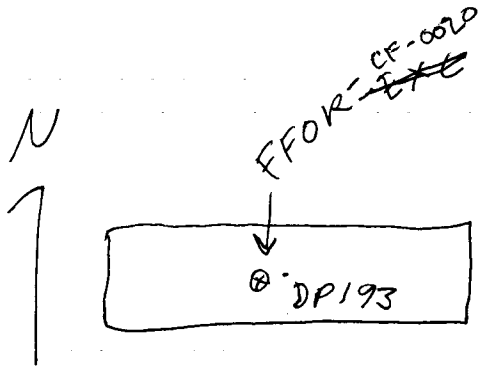
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP193, PID: 0.0 ppm

coor. = 35°02'54.010"N, 106°34'48.783"W

Sketch Location:



Logged BY / Date: 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-20**
Sample Number: **FFOR-CF-0021**
Sample Name: **FFOR-EXC-20-DS-FFOR-CF-0021-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1507
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

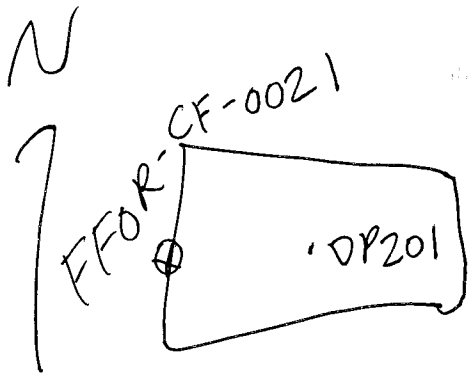
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP201, PID: 0.3 ppm
Coor.: 35°02'53.999"N, 106°34'47.964"W

Sketch Location:



Logged BY / Date: [signature] 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-20**
Sample Number: **FFOR-CF-0022**
Sample Name: **FFOR-EXC-20-DS-FFOR-CF-0022-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: Disposible
QC Partners:
(TB) (ER) (FB)

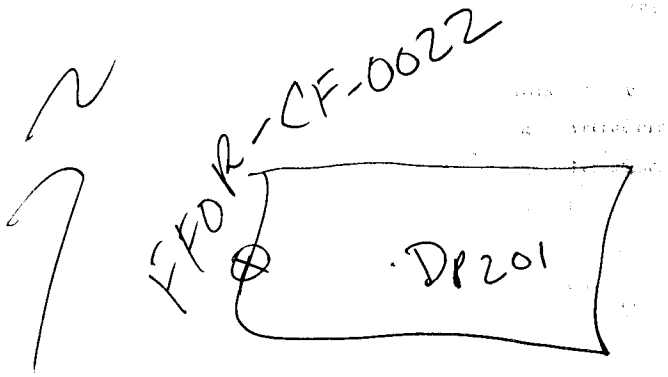
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1507
Start Depth: 2.5 ft
End Depth: 2.5ft
Sample Matrix: SO
Sample Team: TK, CG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP201, see parent for PID, Coor.: 35°02'53.999"N, 106°34'47.964"W

Sketch Location:



Logged BY / Date: 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-21**
Sample Number: **FFOR-CF-0023**
Sample Name: **FFOR-EXC-21-DS-FFOR-CF-0023-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1518
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

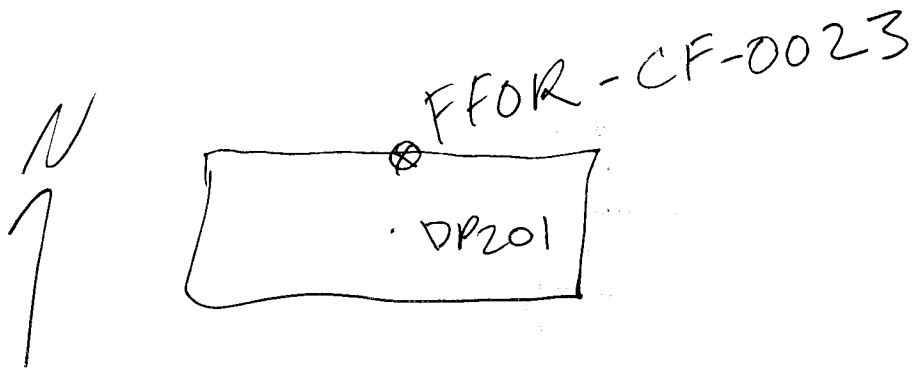
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP201, PID: 0.0 ppm

Coor.: 35°02'54.022"N, 106°34'47.858"W

Sketch Location:



Logged BY / Date: 7/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-22**
Sample Number: **FFOR-CF-0024**
Sample Name: **FFOR-EXC-22-DS-FFOR-CF-0024-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

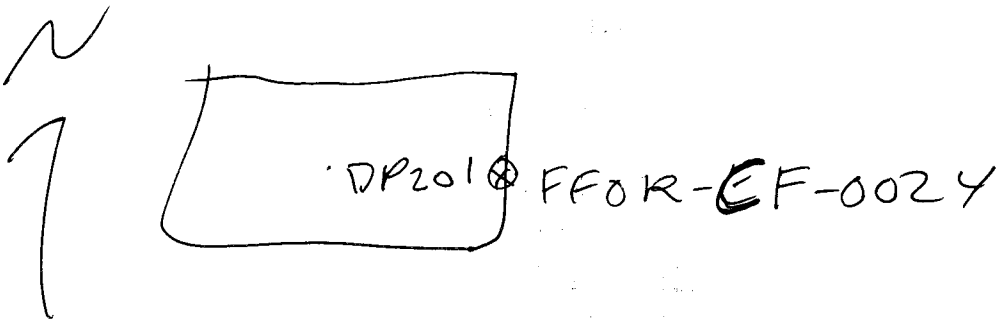
Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1526
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DRO1, PID: 0.0 ppm
Coor.: 35°02'53.997"N, 106°34'47.736"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-000

Location Code: **FFOR-EXC-23**
Sample Number: **FFOR-CF-0025**
Sample Name: **FFOR-EXC-23-DS-FFOR-CF-0025-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1534
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP201, PID: 0.0 ppm
Coor.: 35°02'53.956"N, 106°34'47.886"W

Sketch Location:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0004

Location Code: **FFOR-EXC-24**
Sample Number: **FFOR-CF-0026**
Sample Name: **FFOR-EXC-24-DS-FFOR-CF-0026-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/2/14
Collection Time: 1540
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team:

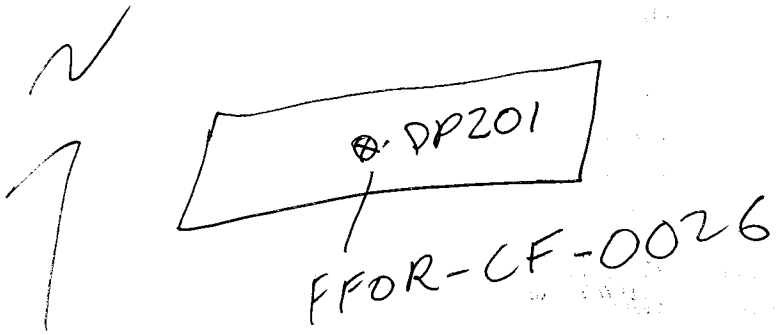
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: DP201 PID: 0.0 ppm
Coor.: 35°02'53.990"N, 106°34'47.845"W

Sketch Location:



Logged BY / Date: 7/2/14

Reviewed BY / Date: _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0005

Location Code: **FFOR-EXC-25**
Sample Number: **FFOR-CF-0027**
Sample Name: **FFOR-EXC-25-DS-FFOR-CF-0027-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/3/14
Collection Time: 0935
Start Depth: 2.5ft
End Depth: 2.5ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

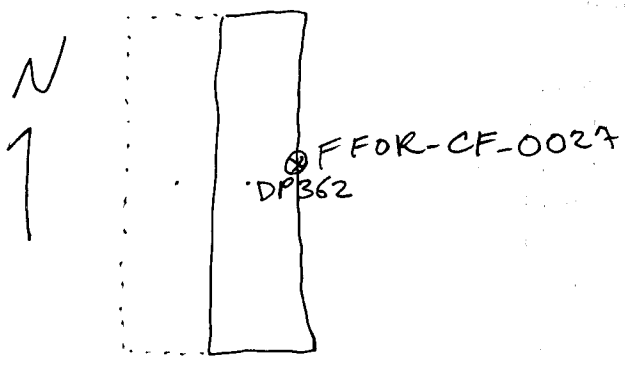
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: DP362, PID: 94.3 ppm

coor.: 35°02'53.381"N, 106°34'39.169"W

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0006

Location Code: **FFOR-EXC-26**
Sample Number: **FFOR-CF-0028**
Sample Name: **FFOR-EXC-26-DS-FFOR-CF-0028-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/18/14
Collection Time: 0952
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK

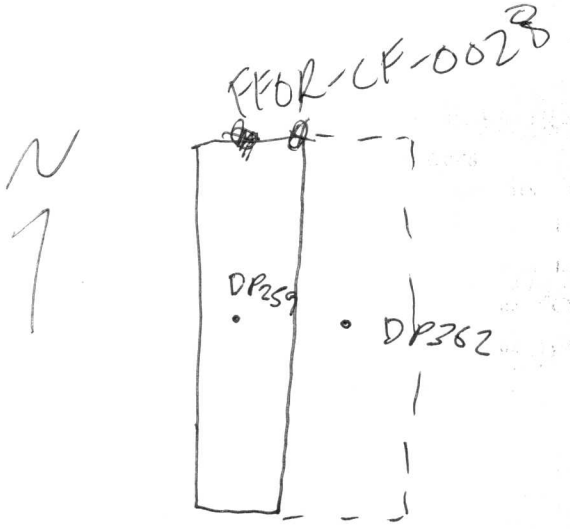
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 0.0 ppm
Coor. 35°02'53.495"N, 106°34'39.220"W
associated with DP259 and DP362

Sketch Location:



Logged BY / Date: 7/18/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-~~EXC~~ FFOREXC-0006 TSR 7/18/14

Location Code: **FFOR-EXC-27**

Sample Number: **FFOR-CF-0029**

Sample Name: **FFOR-EXC-27-DS-FFOR-CF-0029-REG**

Sampling Method: **G**

Sample Type: **DS** *Sample Purpose:* **REG**

Sampling Equip: disposible

QC Partners:

(TB) (ER) (FB)

Task: 140705-FFOR-EXC

Collection Date: 7/18/14

Collection Time: 1001

Start Depth: 7.5 ft

End Depth: 7.5 ft

Sample Matrix: **SO**

Sample Team: TK

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:

Sacode:

Lot Control#:

Comments: PID: 0.0 ppm
coor: 35°02'53.415"N, 106°34'39.309"W
DP259 and DP362

Sketch Location:

Logged BY / Date: 7/18/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0006

Location Code: **FFOR-EXC-28**
Sample Number: **FFOR-CF-0030**
Sample Name: **FFOR-EXC-28-DS-FFOR-CF-0030-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/18/14
Collection Time: 1012
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 0.0 ppm
coor.: 35°02'53.273"N, 106°39'39.243"W
associated with DP259 and DP362

Sketch Location:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0006

Location Code: **FFOR-EXC-29**
Sample Number: **FFOR-CF-0031**
Sample Name: **FFOR-EXC-29-DS-FFOR-CF-0031-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposible
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/18/14
Collection Time: 1209
Start Depth: 15 ft
End Depth: 15 ft
Sample Matrix: **SO**
Sample Team: TK

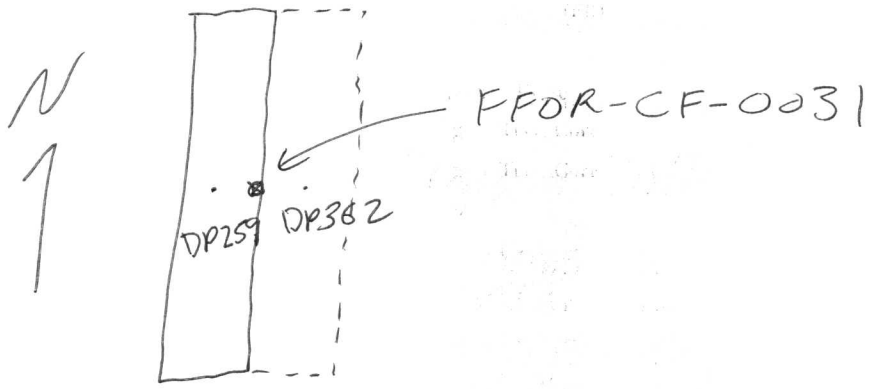
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 0.0 ppm
coor.: 35°02'53.368"N, 106°34'39.202"W
DP259 and DP362

Sketch Location:



Logged BY / Date: 7/18/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-30**
Sample Number: **FFOR-CF-0032**
Sample Name: **FFOR-EXC-30-DS-FFOR-CF-0032-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/25/14
Collection Time: 0906
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

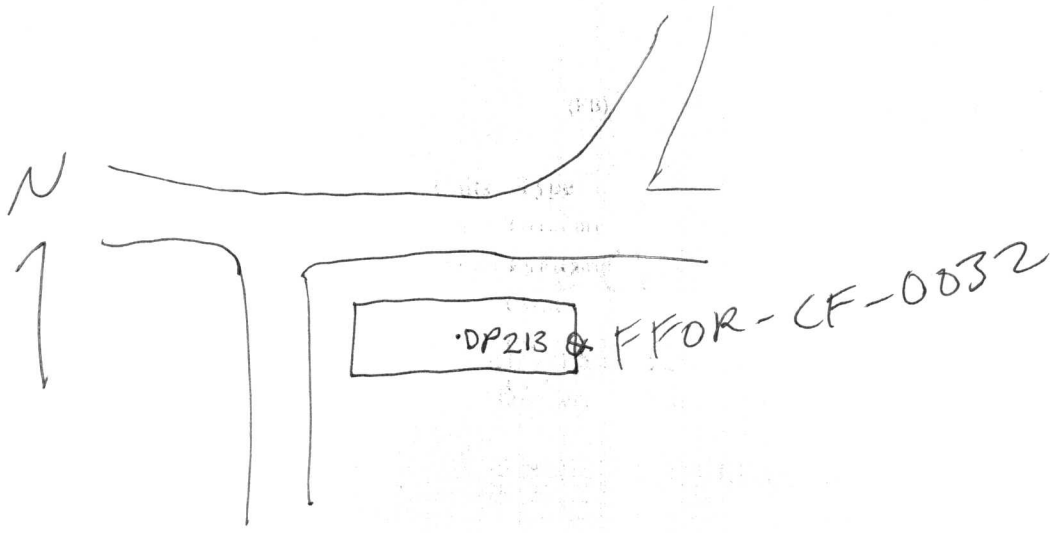
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 0.7 ppm
coor.: 1272815 7.06 ft N, 1167800.64 ft E
associated ∈ DP213

Sketch Location:



Logged BY / Date: 7/25/14

Reviewed BY / Date: _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-30**
Sample Number: **FFOR-CF-0033**
Sample Name: **FFOR-EXC-30-DS-FFOR-CF-0033-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/25/14
Collection Time: 0906
Start Depth: 7.5ft
End Depth: 7.5ft
Sample Matrix: **SO**
Sample Team: TK, LG

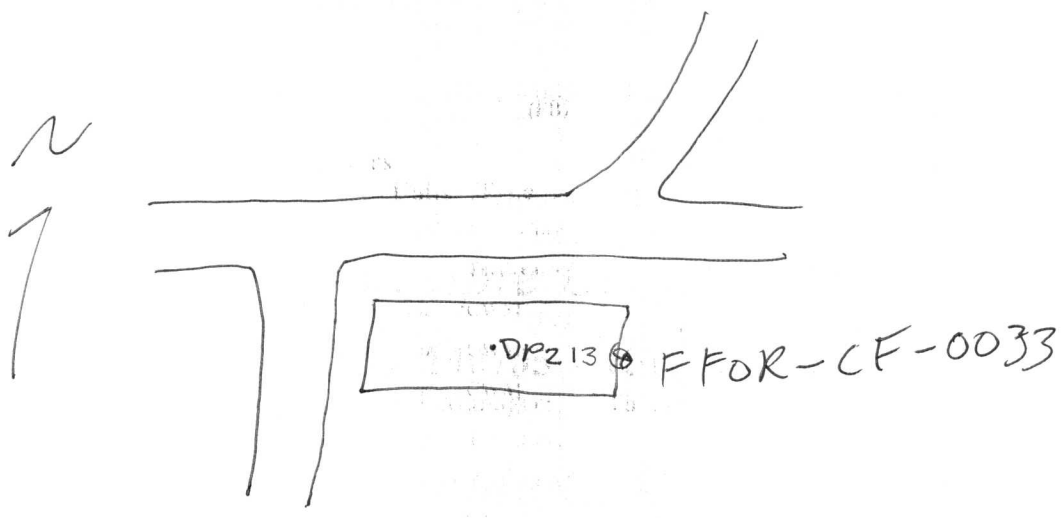
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 0.7 ppm
coor. = 1272857.06 ft N, 1167800.64 ft E
associated w DP213

Sketch Location:



Logged BY / Date: 7/25/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-31**
Sample Number: **FFOR-CF-0034**
Sample Name: **FFOR-EXC-31-DS-FFOR-CF-0034-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/25/14
Collection Time: 0920
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 0.7 ppm
coor.: 1272815.42 ft N, 1167786.41 ft E
associated E DP213

Sketch Location:

Logged BY / Date: L Krahl 7/25/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-32**
Sample Number: **FFOR-CF-0035**
Sample Name: **FFOR-EXC-32-DS-FFOR-CF-0035-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/25/14
Collection Time: 0928
Start Depth: 7.5ft
End Depth: 7.5ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 0.9 ppm
coor.: 1272815.5.81 ft N, 1167776.61 ft E
associated ε DP213

Sketch Location:

Logged BY / Date: 7/25/14

Reviewed BY / Date: _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR EXC-0009

Location Code: **FFOR-EXC-33**
Sample Number: **FFOR-CF-0036**
Sample Name: **FFOR-EXC-33-DS-FFOR-CF-0036-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/25/14
Collection Time: 0937
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK LG

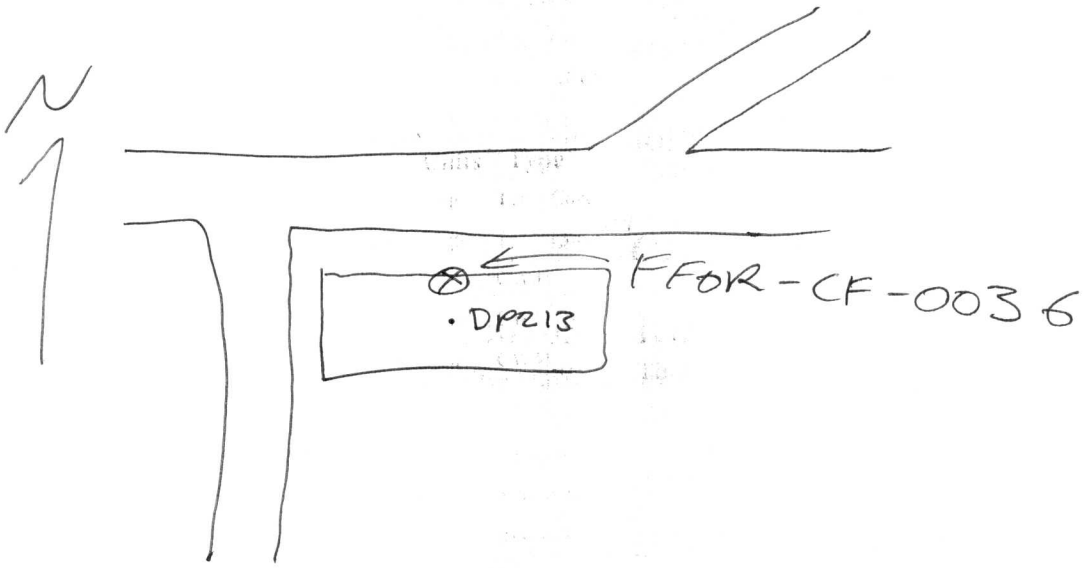
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 0.0 ppm
coor.: 1728161.92 ft N, 1167790.29 ft E
associated ∈ DP213

Sketch Location:



Logged BY / Date: 7/25/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0009

Location Code: **FFOR-EXC-34**
Sample Number: **FFOR-CF-0037**
Sample Name: **FFOR-EXC-34-DS-FFOR-CF-0037-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

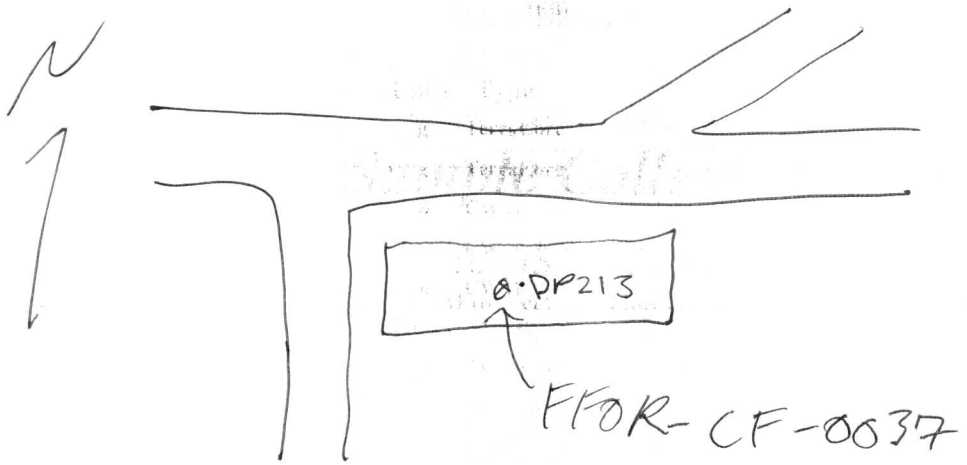
Task: 140705-FFOR-EXC
Collection Date: 7/25/14
Collection Time: 1530
Start Depth: 15 ft
End Depth: 15 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 0.7 ppm
coor.: 1272815.20 ft N, 1167778.65 ft E
associated ∈ DP 213

Sketch Location:



Logged BY / Date: 7/25/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0010

Location Code: **FFOR-EXC-35**
Sample Number: **FFOR-CF-0038**
Sample Name: **FFOR-EXC-35-DS-FFOR-CF-0038-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

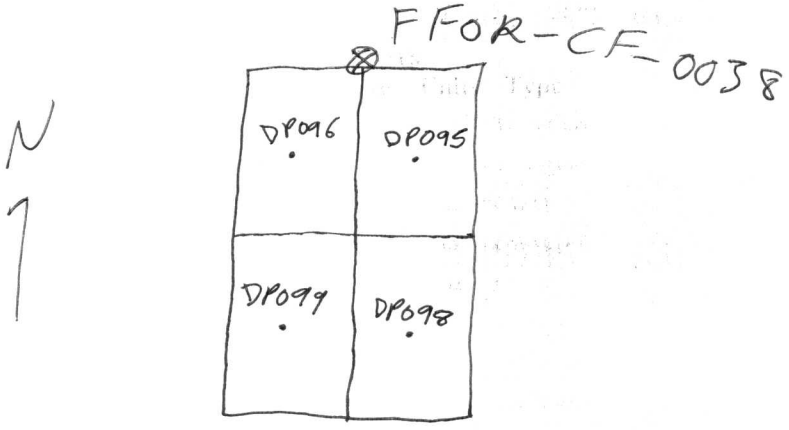
Task: 140705-FFOR-EXC
Collection Date: 7/29/14
Collection Time: 0855
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 225 ppm
Coor.: 1272863.42 ft N, 1167436.02 ft E

Sketch Location:



Logged BY / Date: 7/29/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0010

Location Code: **FFOR-EXC-35**
Sample Number: **FFOR-CF-0038-MS**
Sample Name: **FFOR-EXC-35-DS-FFOR-CF-0038-MS-MS**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **MS**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/29/14
Collection Time: 0855
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

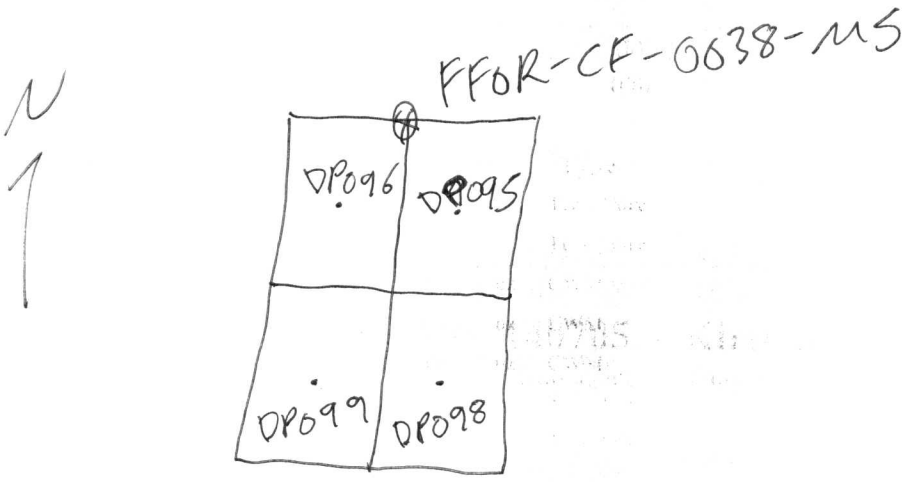
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 225 ppm
Coor.: See parent sample

Sketch Location:



Logged BY / Date: 7/29/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0010

Location Code: **FFOR-EXC-35**
Sample Number: **FFOR-CF-0038-MSD**
Sample Name: **FFOR-EXC-35-DS-FFOR-CF-0038-MSD-MSD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **MSD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/29/14
Collection Time: 0855
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

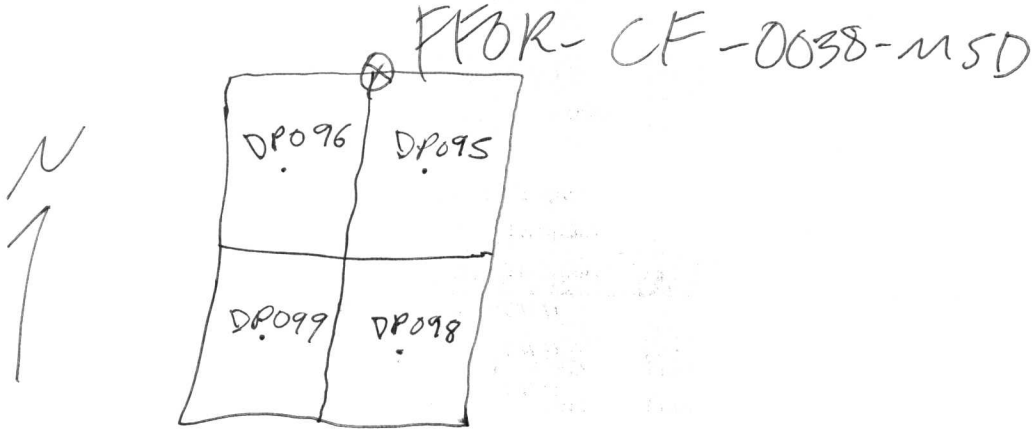
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 225 ppm
COOR.: See parent sample

Sketch Location:



Logged BY / Date: 7/29/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0010

Location Code: **FFOR-EXC-36**
Sample Number: **FFOR-CF-0039**
Sample Name: **FFOR-EXC-36-DS-FFOR-CF-0039-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/29/14
Collection Time: 0904
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

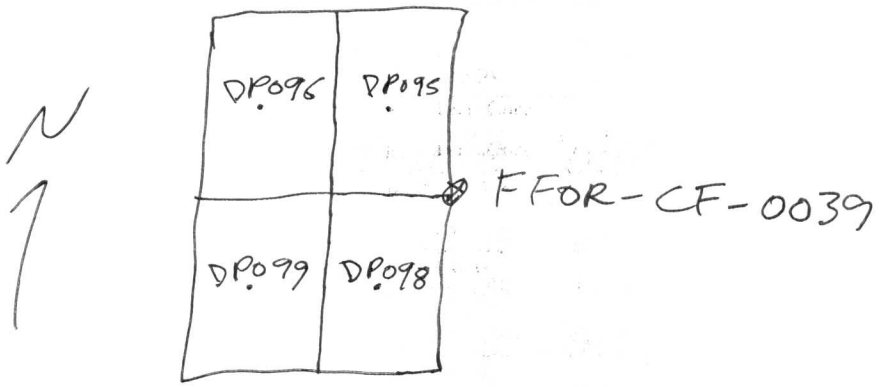
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 33.4 ppm
coor.: 1727861 5.21 ft N, 1167443.01 ft E

Sketch Location:



Logged BY / Date: 7/29/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0010

Location Code: **FFOR-EXC-37**
Sample Number: **FFOR-CF-0040**
Sample Name: **FFOR-EXC-37-DS-FFOR-CF-0040-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/29/14
Collection Time: 0911
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

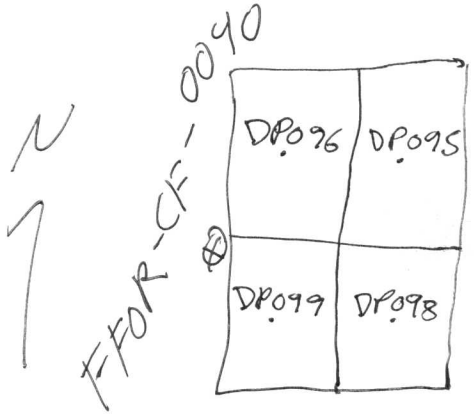
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 942 ppm
Coor.: 1728620.83 ft N, 1167416.43 ft E

Sketch Location:



Logged BY / Date: 7/29/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0041

Location Code: **FFOR-EXC-38**
Sample Number: **FFOR-CF-0041**
Sample Name: **FFOR-EXC-38-DS-FFOR-CF-0041-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: Disposable

Task: 140705-FFOR-EXC
Collection Date: 7/31/14
Collection Time: 1050
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: SO
Sample Team: TK, LG

QC Partners:
(TB) (ER) (FB)

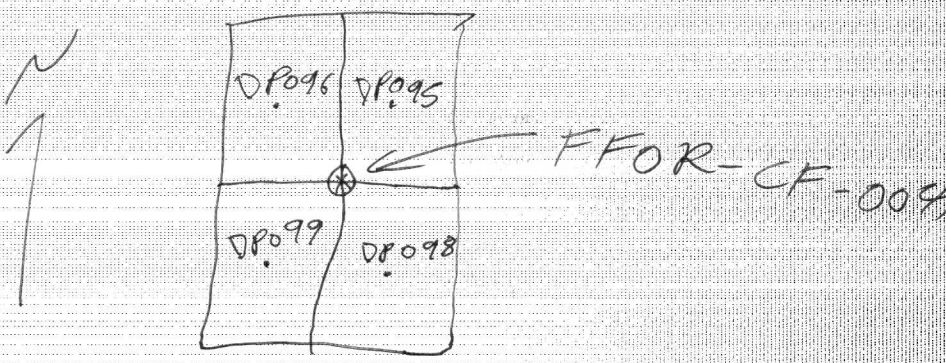
ERPIMS Values:
Sample
Lot Control

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 1121 ppm
coor.: 1272862.0.84 ft N, 1167428.10 ft E
see picture for boreholes.

Sketch Location:



Logged BY / Date: 7/31/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0014

Location Code: **FFOR-EXC-40**
Sample Number: **FFOR-CF-0043**
Sample Name: **FFOR-EXC-40-DS-FFOR-CF-0043-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/18/14
Collection Time: 1328
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

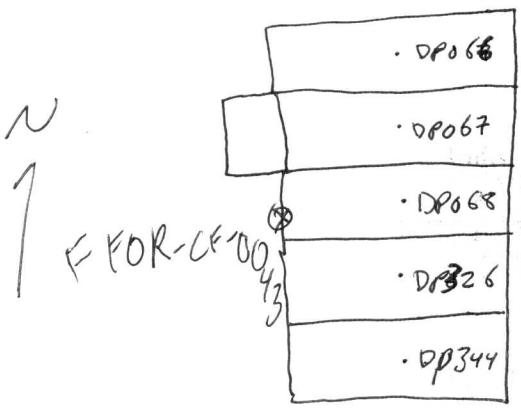
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 3.9 ppm
coor.: 35°02'58.654"N, 106°34'51.657"W
associated with DP066, DP067, DP068, DP326, and DP344

Sketch Location:



Logged BY / Date: 8/18/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0014

Location Code: **FFOR-EXC-40**
Sample Number: **FFOR-CF-0044**
Sample Name: **FFOR-EXC-40-DS-FFOR-CF-0044-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/18/14
Collection Time: 1328
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

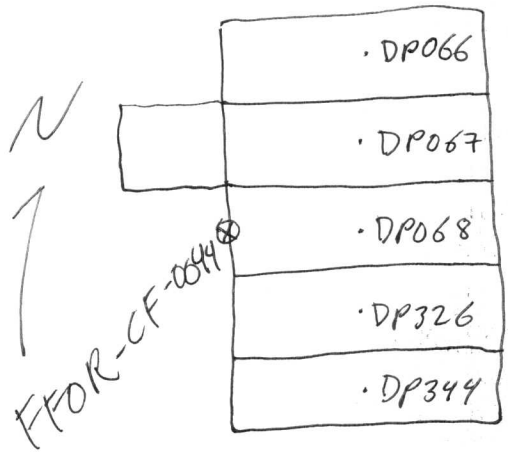
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 3.9 ppm
coor.: 35°02'58.654"N, 106°34'51.657"W
associated with DP067, DP068, DP066, DP326, and DP344

Sketch Location:



Logged BY / Date: [signature] 8/18/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0014

Location Code: **FFOR-EXC-41**
Sample Number: **FFOR-CF-0045**
Sample Name: **FFOR-EXC-41-DS-FFOR-CF-0045-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: Disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 8/18/14
Collection Time: 1339
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

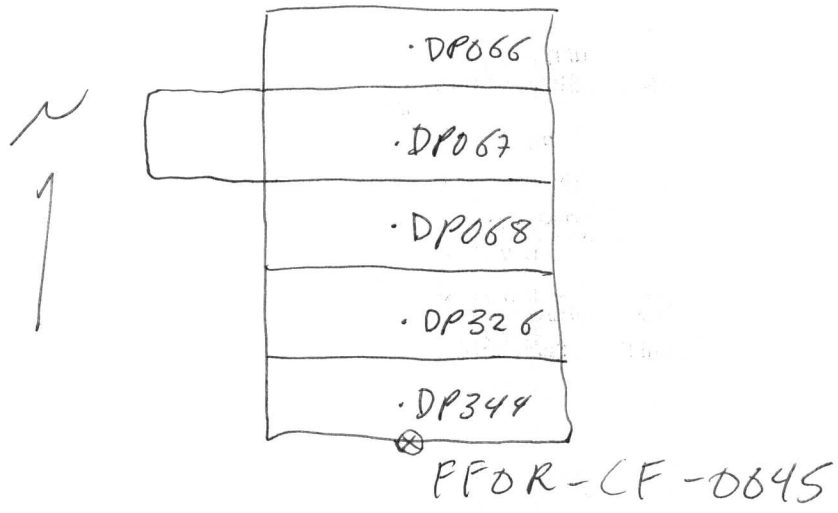
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 5.7 ppm
coor.: 35°02'58.484"N, 106°34'51.611"W
associated with DP066, DP067, DP068, DP326, and DP344

Sketch Location:



Logged BY / Date: 8/18/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0015

Location Code: **FFOR-EXC-42**
Sample Number: **FFOR-CF-0046**
Sample Name: **FFOR-EXC-42-DS-FFOR-CF-0046-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/19/14
Collection Time: 0807
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

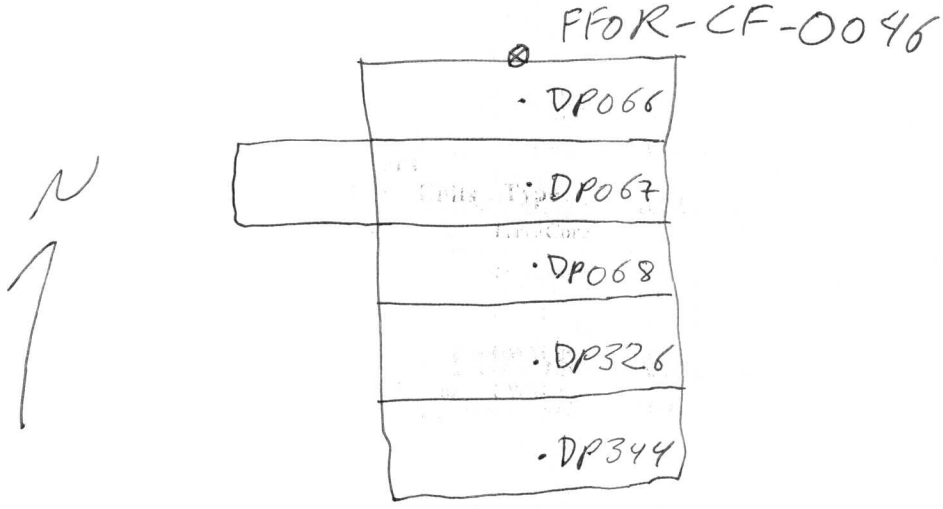
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 4.7 ppm
coor.: 35°02'58.779"N, 106°34'51.610"W
associated with DP066, DP067, DP068, DP326, and DP344

Sketch Location:



Logged BY / Date: [signature] 8/19/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0015

Location Code: **FFOR-EXC-43**
Sample Number: **FFOR-CF-0047**
Sample Name: **FFOR-EXC-43-DS-FFOR-CF-0047-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 8/19/14
Collection Time: 1531
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK

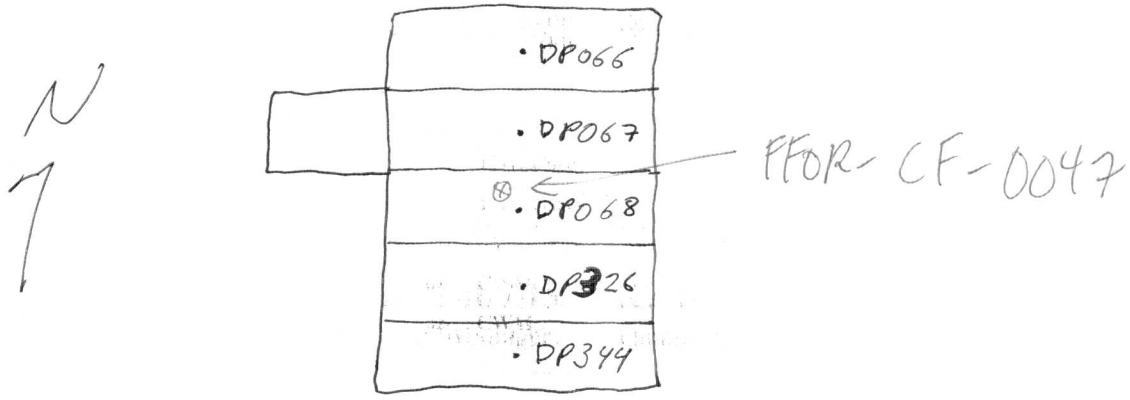
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 1030 ppm
coor.: 35°02'58.616"N, 106°34'51.674"W
associated with DP066, DP067, DP068, DP326, and DP344

Sketch Location:



Logged BY / Date: 8/19/14 *Reviewed BY / Date:* _____

Sample Collection Log

Shaw E & I, Inc.

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0016

Location Code: **FFOR-EXC-44**

Sample Number: **FFOR-CF-0048**

Sample Name: **FFOR-EXC-44-DS-FFOR-CF-0048-REG**

Sampling Method: **G**

Sample Type: **DS** *Sample Purpose:* **REG**

Sampling Equip: Disposable

QC Partners:

(TB) (ER) (FB)

Task: 140705-FFOR-EXC

Collection Date: 8/20/14

Collection Time: 1520

Start Depth: 10 ft

End Depth: 10 ft

Sample Matrix: **SO**

Sample Team: TK

ERPIMS Values:

Step#:

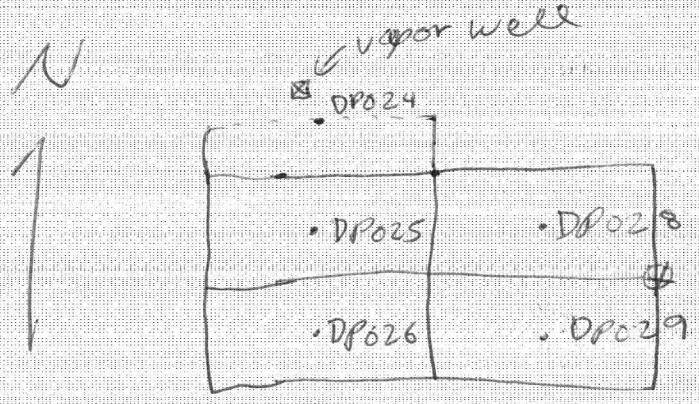
Log Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 979 ppm
Coor.: 35°02'58.653"N, 106°34'53.004"W
associated with DP024, DP025, DP026, DP028, and DP029

Sketch Location:



Logged BY / Date: 8/20/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0016

Location Code: **FFOR-EXC-45**
Sample Number: **FFOR-CF-0049**
Sample Name: **FFOR-EXC-45-DS-FFOR-CF-0049-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/6/14
Collection Time: 1531
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

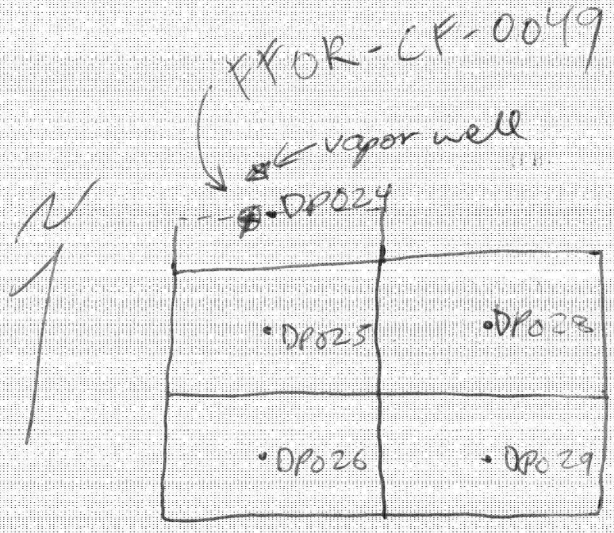
ERPIMS Values:
Sacode:
Tier Code:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 1081
coor.: 35°02'58.733" N, 106°34'53.167" W
associated with DP024, DP025, DP026, DP028, and DP029

Sketch Location:



Logged BY / Date: 8/7/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORE×C-0016

Location Code: **FFOR-EXC-46**
Sample Number: **FFOR-CF-0050**
Sample Name: **FFOR-EXC-46-DS-FFOR-CF-0050-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: Disposable

Task: 140705-FFOR-EXC
Collection Date: 8/20/14
Collection Time: 1540
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team TK

QC Partners:
(TB) (ER) (FB)

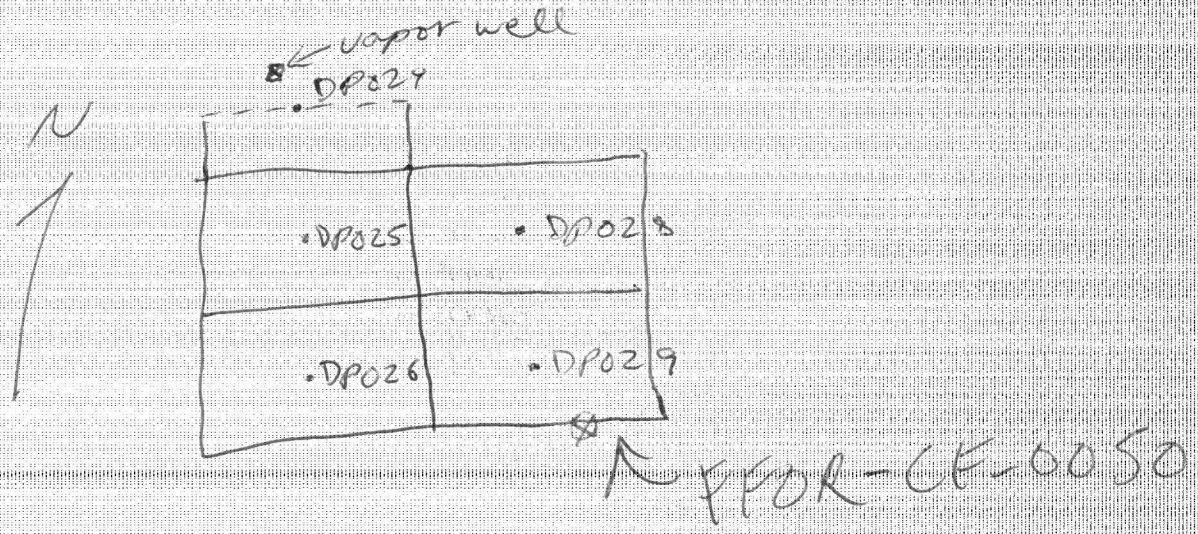
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values
Survey
Lot Control

Comments: PID: 1341
coor.: 35°02'58.819"N, 106°34'55.083"W
associated with DP024, DP025, DP026, DP028, and DP029

Sketch Location:



Logged BY / Date: 8/20/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / CQC Number: 140705-FFOREXC-0017

Location Code: **FFOR-EXC-47**
Sample Number: **FFOR-CF-0051**
Sample Name: **FFOR-EXC-47-DS-FFOR-CF-0051-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/21/14
Collection Time: 1521
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: SO
Sample Team: TK

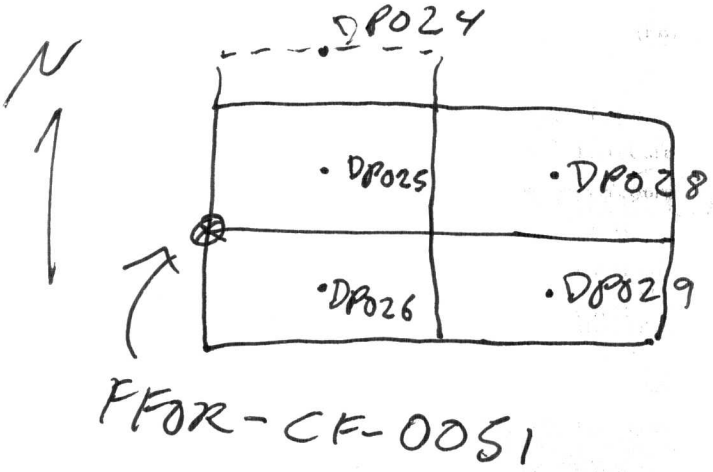
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 1474 ppm
coor.: 35°02'58.685"N, 106°34'53.236"W
associated with DP029, DP028, DP026, DP025 and DP024

Sketch Location:



Logged BY / Date: 8/21/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0018

Location Code: **FFOR-EXC-48**
Sample Number: **FFOR-CF-0052**
Sample Name: **FFOR-EXC-48-DS-FFOR-CF-0052-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/27/14
Collection Time: 1413
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

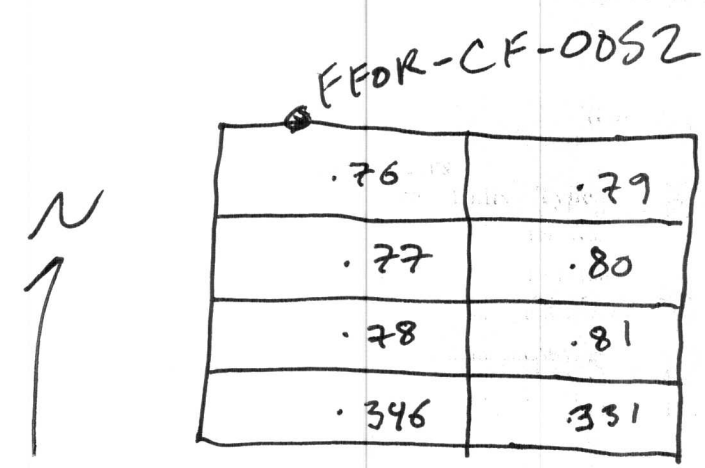
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 95.6 ppm
coor.: 35°02'58.798"N, 106°~~02'58.798~~ 34'51.261"W TK 8/27/14
associated with DP076 and DP079

Sketch Location:



Logged BY / Date: K Kellel 8/27/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC0018

Location Code: **FFOR-EXC-49**
Sample Number: **FFOR-CF-0053**
Sample Name: **FFOR-EXC-49-DS-FFOR-CF-0053-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: Disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 8/27/14
Collection Time: 1528
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK

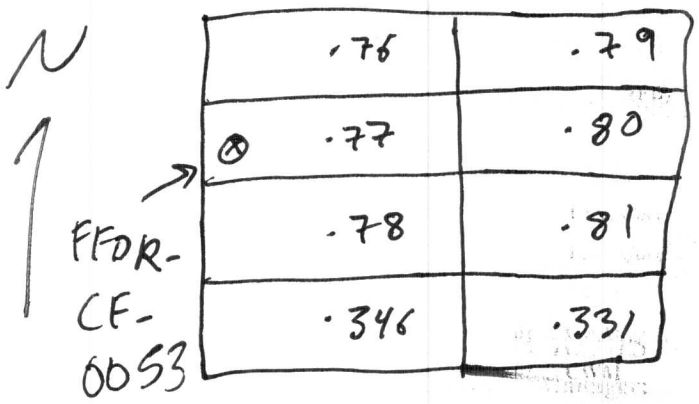
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 2421 ppm
coor.: 35°02'58.682"N, 106°34'51.354"W
associated with DP076, DP077

Sketch Location:



Logged BY / Date: 8/27/14 *Reviewed BY / Date:*

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-50**
Sample Number: **FFOR-CF-0054**
Sample Name: **FFOR-EXC-50-DS-FFOR-CF-0054-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 0839
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

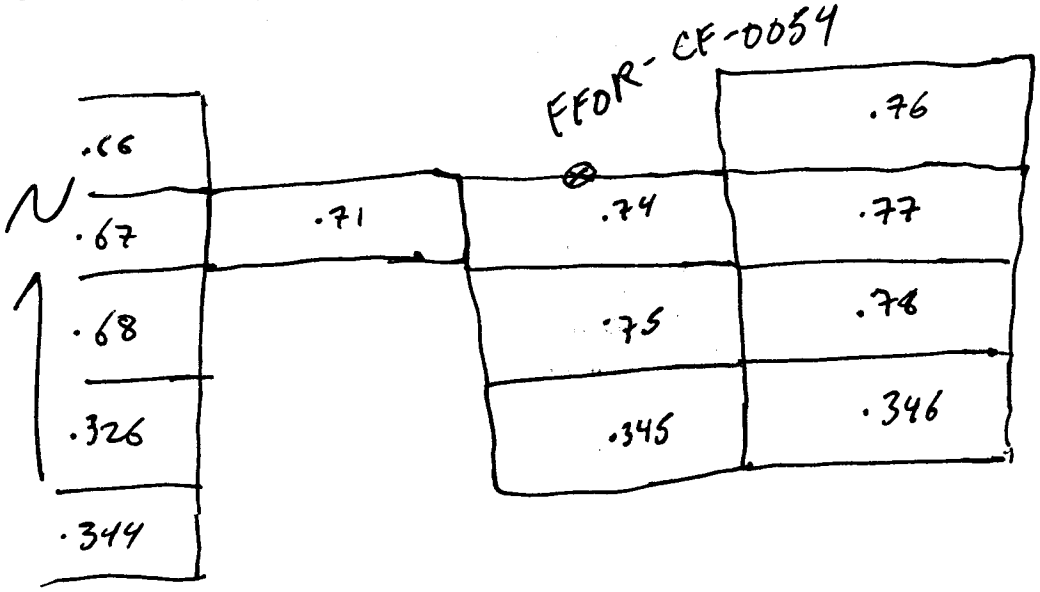
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID = 11.8 ppm
coor.: 35°02'58.707"N 106°34'51.423"W
associated with DP074, DP071, DP075, and DP345

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-50**
Sample Number: **FFOR-CF-0055**
Sample Name: **FFOR-EXC-50-DS-FFOR-CF-0055-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 0839
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

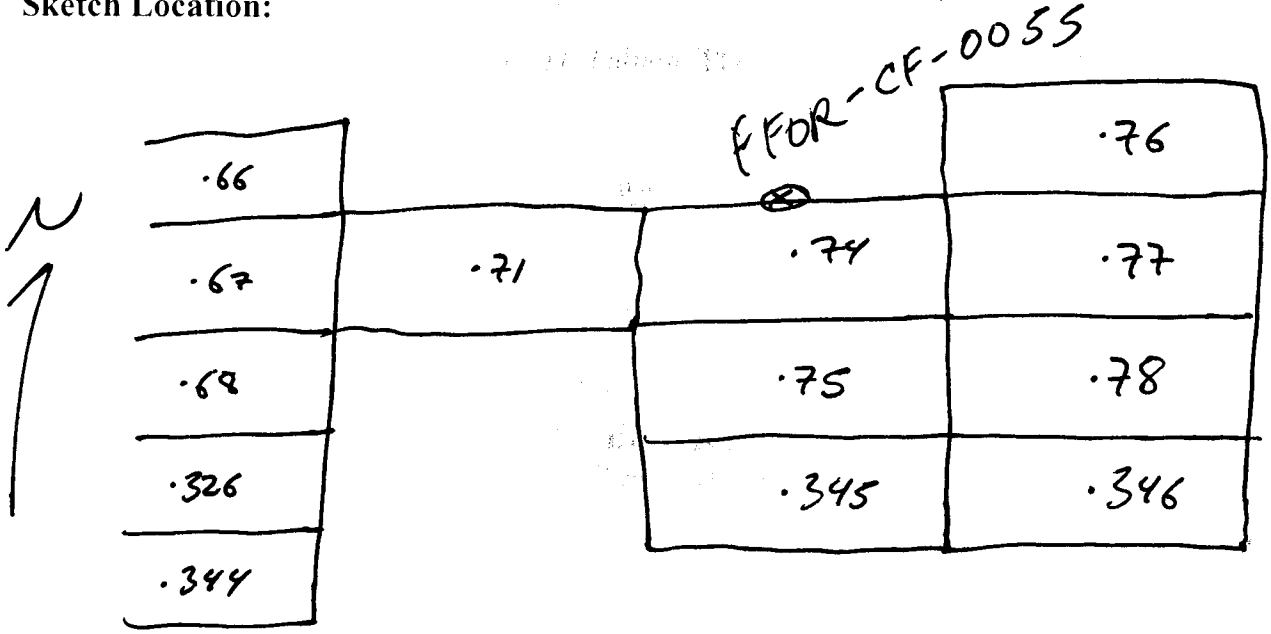
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: see parent for coordinates and PID associated with DP071, DP074, DP075, and DP345

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-51**
Sample Number: **FFOR-CF-0056**
Sample Name: **FFOR-EXC-51-DS-FFOR-CF-0056-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1103
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK

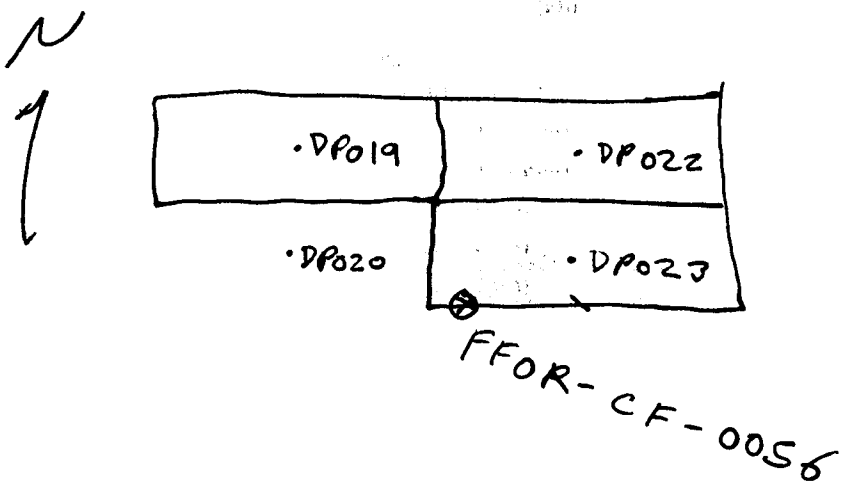
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8015B-DRO	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM

Comments: PID: 388 ppm
Coor.: 35°02'58.595"N, 106°39'53.345"W
associated with DP023, DP022, DP019

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-52**
Sample Number: **FFOR-CF-0057**
Sample Name: **FFOR-EXC-52-DS-FFOR-CF-0057-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1504
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK

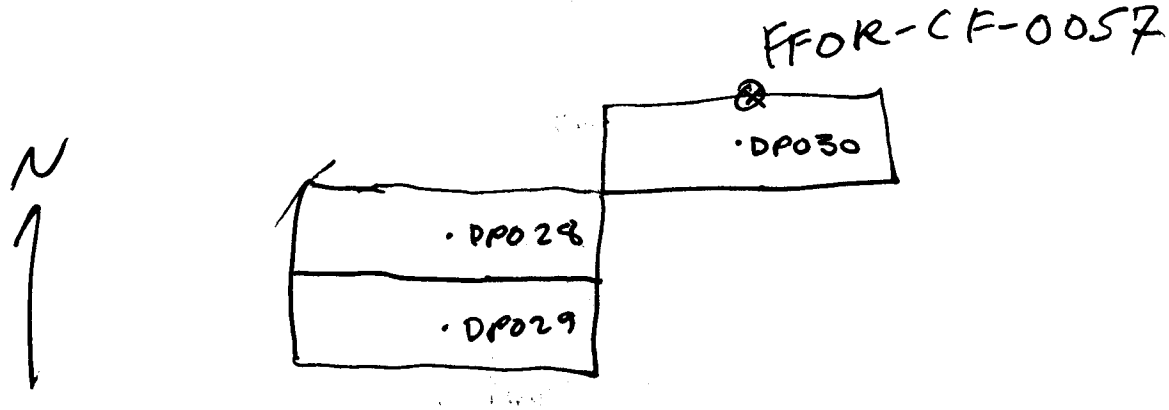
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 35.4 ppm
coor.: 35°02'58.751"N, 106°34'52.901"W
associated with DP030

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-53**
Sample Number: **FFOR-CF-0058**
Sample Name: **FFOR-EXC-53-DS-FFOR-CF-0058-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1510
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK

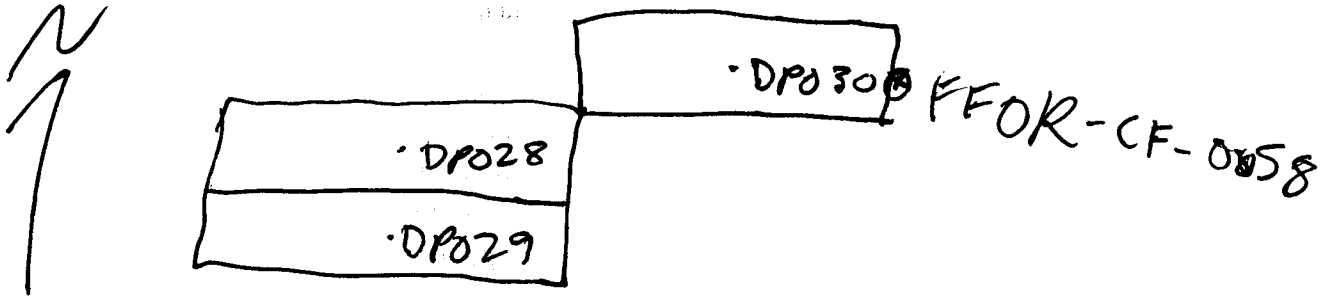
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 125 ppm
coor.: 35°02'58.721"N, 106°34'52.845"W
associated with DP030

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-54**
Sample Number: **FFOR-CF-0059**
Sample Name: **FFOR-EXC-54-DS-FFOR-CF-0059-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1515
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK

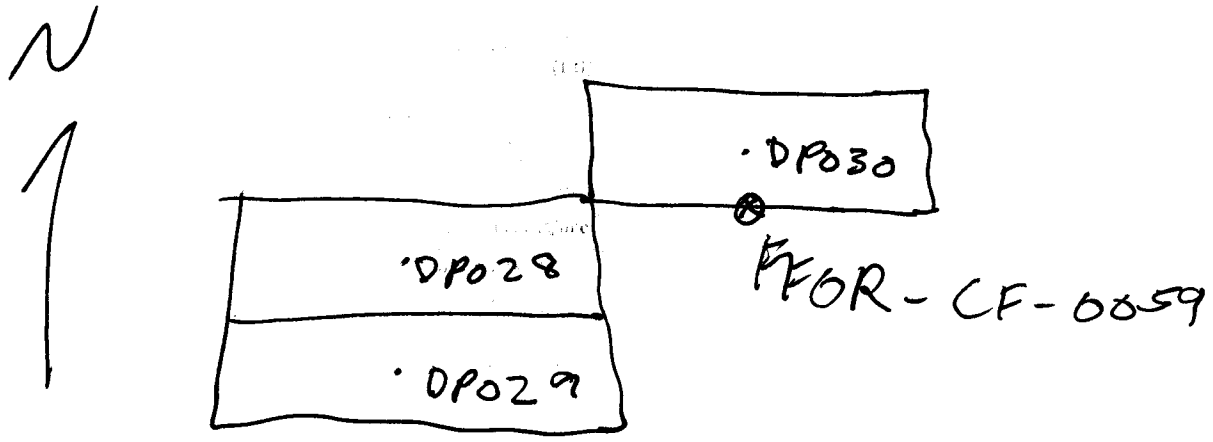
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 1530 ppm
coor.: 35°02'58.696"N, 106°34'52.906"W
associated with DP030

Sketch Location:



Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0019

Location Code: **FFOR-EXC-55**
Sample Number: **FFOR-CF-0060**
Sample Name: **FFOR-EXC-55-DS-FFOR-CF-0060-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1558
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK

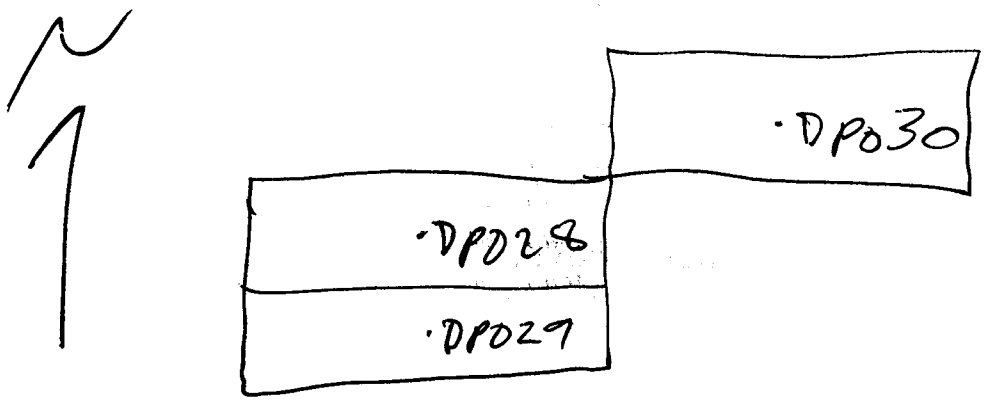
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 981 ppm
Coor: 35°02'58.728"N, 106°34'52.961"W
associated with DP030

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-001

Location Code: **FFOR-EXC-55**
Sample Number: **FFOR-CF-0060-MS**
Sample Name: **FFOR-EXC-55-DS-FFOR-CF-0060-MS-MS**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **MS**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1558
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: See parent
Coor. See parent

Sketch Location:

See parent

Logged BY / Date: 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0019

Location Code: **FFOR-EXC-55**
Sample Number: **FFOR-CF-0060-MSD**
Sample Name: **FFOR-EXC-55-DS-FFOR-CF-0060-MSD-MSD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **MSD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/2/14
Collection Time: 1558
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: SO
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: See parent
Coor. See parent

Sketch Location:

See parent

Logged BY / Date: [signature] 9/2/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0020

Location Code: **FFOR-EXC-56**
Sample Number: **FFOR-CF-0061**
Sample Name: **FFOR-EXC-56-DS-FFOR-CF-0061-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

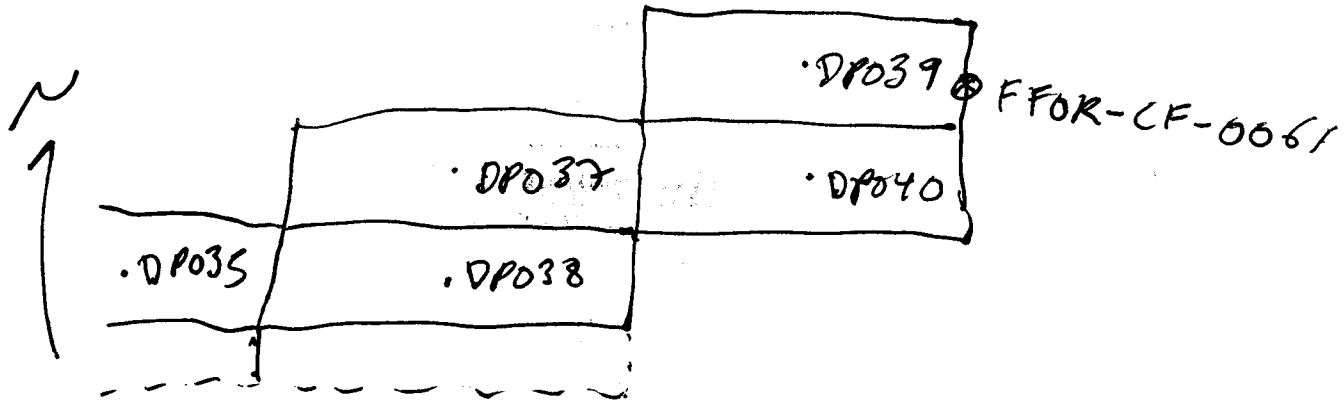
Task: 140705-FFOR-EXC
Collection Date: 9/3/14
Collection Time: 1204
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 29.8 ppm
Coor: 35°02'58.759"N, 106°34'52.483"W
associated with DP037, DP038, DP039 and DP040

Sketch Location:



Logged BY / Date: 9/3/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0020

Location Code: **FFOR-EXC-57**
Sample Number: **FFOR-CF-0062**
Sample Name: **FFOR-EXC-57-DS-FFOR-CF-0062-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/3/14
Collection Time: 1210
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

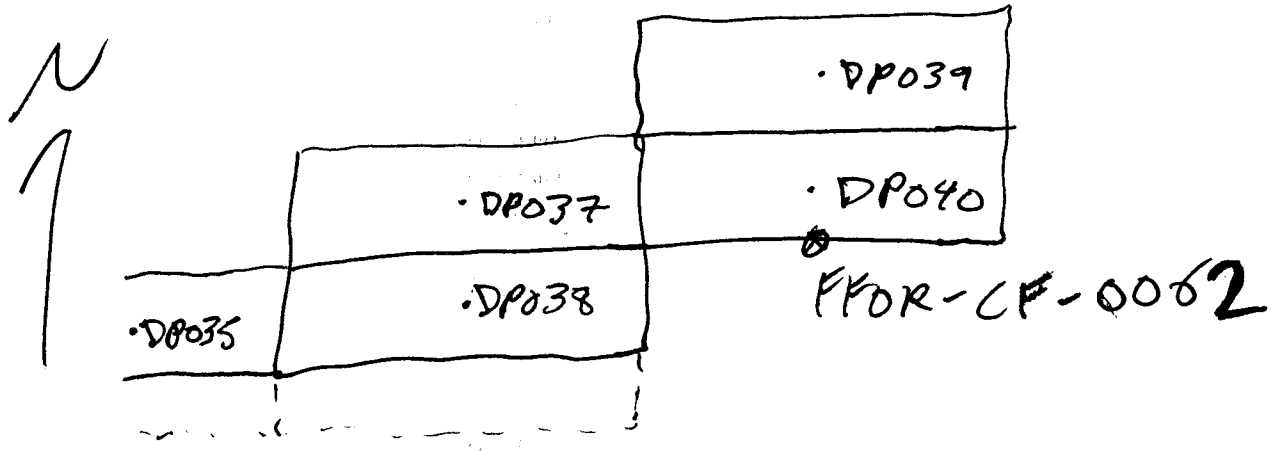
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 894 ppm
coor: 35°02'58.658"N, 106°34'52.589"W
associated with DP037, DP038, DP039, DP040

Sketch Location:



Logged BY / Date: 9/3/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-21

Location Code: **FFOR-EXC-58**
Sample Number: **FFOR-CF-0063**
Sample Name: **FFOR-EXC-58-DS-FFOR-CF-0063-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

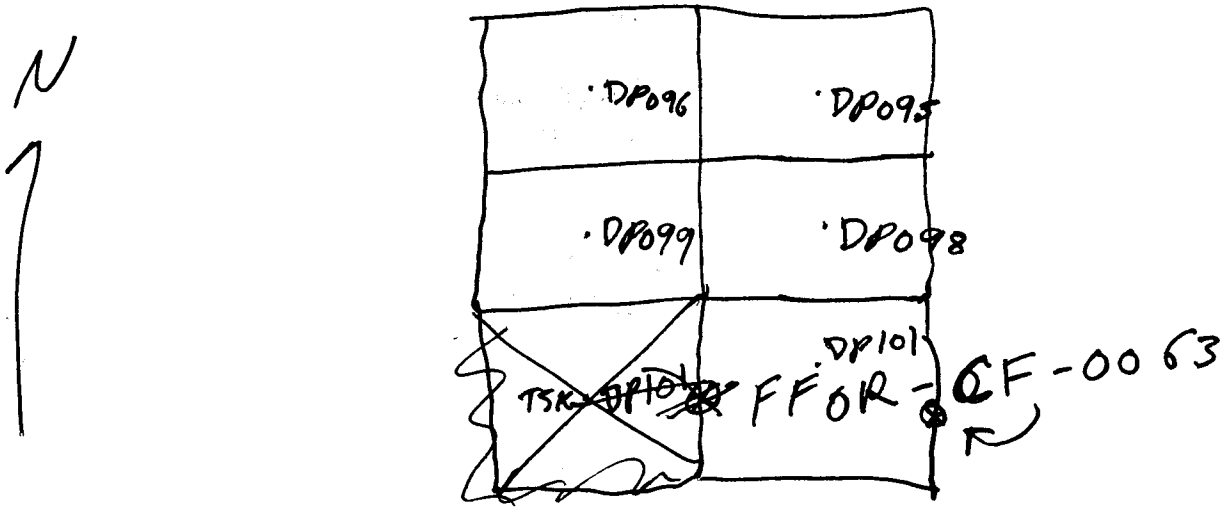
Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 0842
Start Depth: 5ft
End Depth: 5ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 2.6 ppm
Coor.: 35°02'58.287"N, 106°34'50.725"W
associated with DP101

Sketch Location:



Logged BY / Date: 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-21

Location Code: **FFOR-EXC-59**
Sample Number: **FFOR-CF-0064**
Sample Name: **FFOR-EXC-59-DS-FFOR-CF-0064-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 0850
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: SO
Sample Team: TK

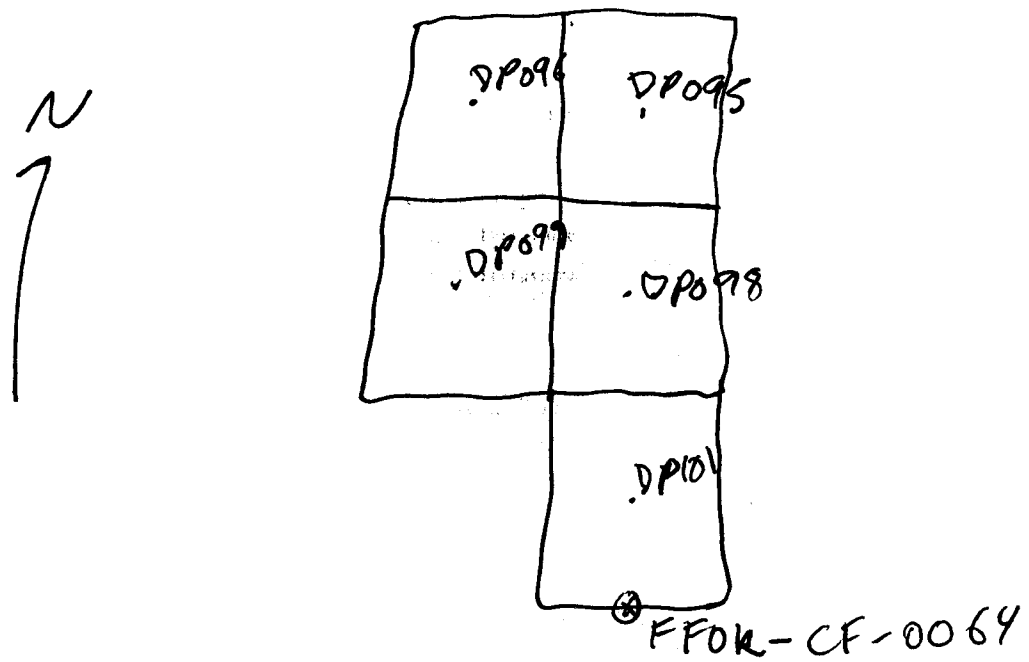
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 3.9 ppm
Coor.: 35°02'58.241"N, 106°34'50.770"W
associated with DP101

Sketch Location:



Logged BY / Date: [signature] 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-21

Location Code: **FFOR-EXC-60**
Sample Number: **FFOR-CF-0065**
Sample Name: **FFOR-EXC-60-DS-FFOR-CF-0065-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 0900
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: SO
Sample Team: TK, LG

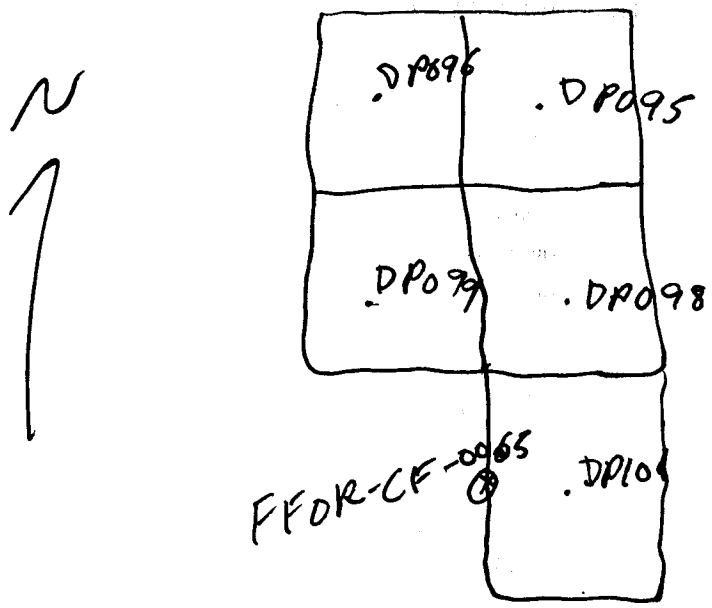
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 0.3 ppm
coor.: 35°02'58.270"N, 106°34'50.820"W
associated with DP101

Sketch Location:



Logged BY / Date: 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 146705-FFORExc-21

Location Code: **FFOR-EXC-60**
Sample Number: **FFOR-CF-0066**
Sample Name: **FFOR-EXC-60-DS-FFOR-CF-0066-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 0900
Start Depth: 5ft
End Depth: 5ft
Sample Matrix: SO
Sample Team: TK, LG

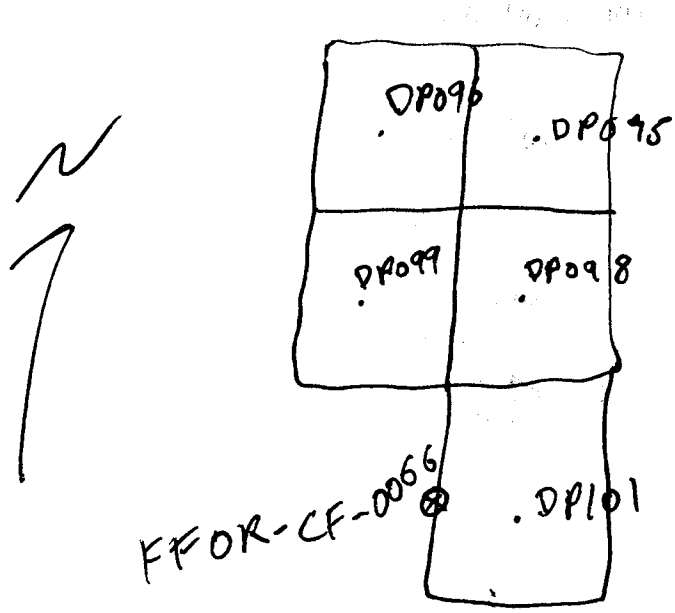
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: See parent for PID and coor. associated with DP101

Sketch Location:



Logged BY / Date: T. Kirkland 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-21

Location Code: **FFOR-EXC-61**
Sample Number: **FFOR-CF-0067**
Sample Name: **FFOR-EXC-61-DS-FFOR-CF-0067-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 0930
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

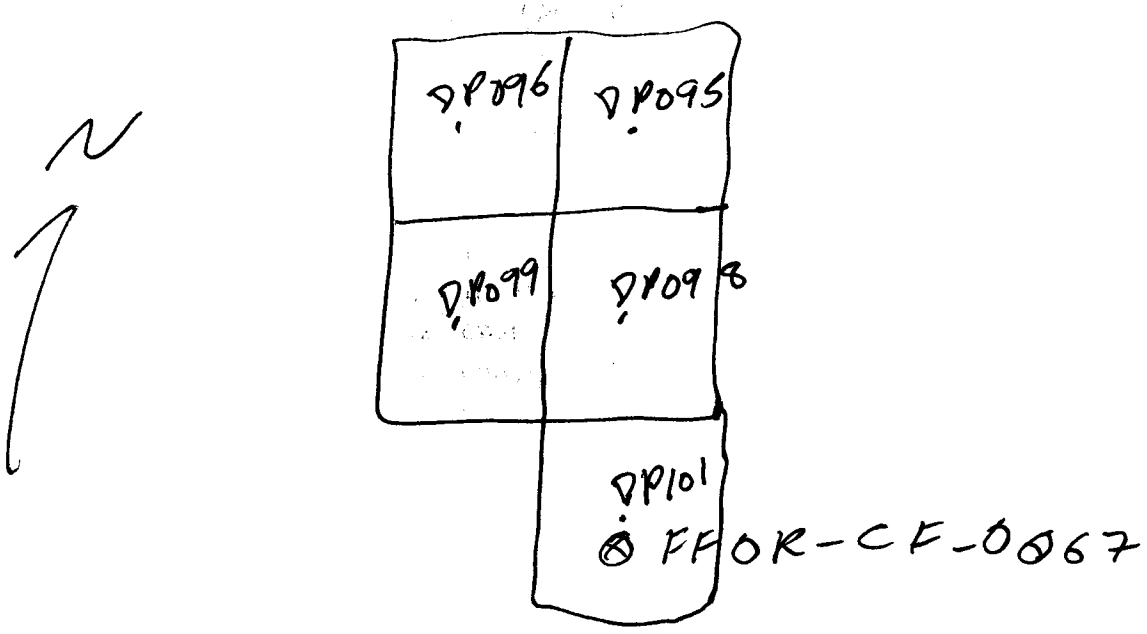
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 1.5 ppm
COOR.: 35°02'58.844"N, 106°34'50.794"W
assosiated with DP101, floor sample

Sketch Location:



Logged BY / Date: 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-21

Location Code: **FFOR-EXC-62**
Sample Number: **FFOR-CF-0068**
Sample Name: **FFOR-EXC-62-DS-FFOR-CF-0068-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

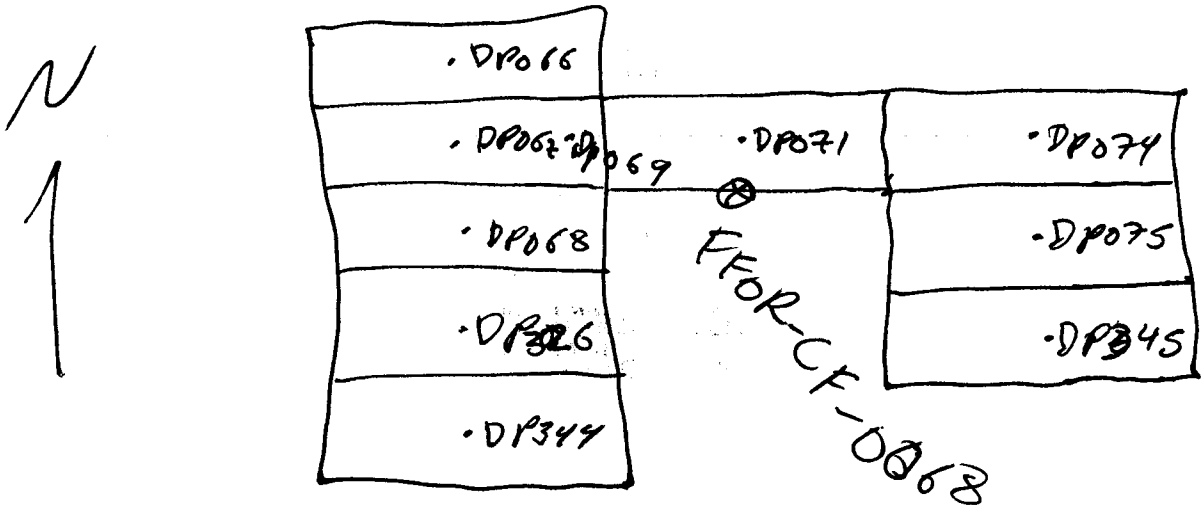
Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 1112
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 1.1 ppm
coor.: 35°02'58.659"N 106°34'51.503"W
associated with DP071, wall sample at 10 ft.

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-21

Location Code: **FFOR-EXC-63**
Sample Number: **FFOR-CF-0069**
Sample Name: **FFOR-EXC-63-DS-FFOR-CF-0069-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 1431
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

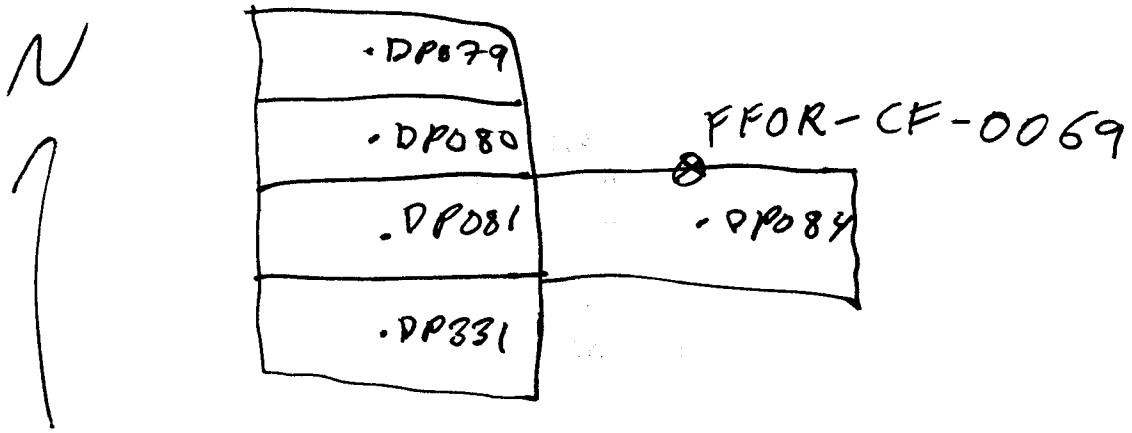
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 129 ppm
Coor.: 35°02'58.679"N, 106°34'51.001"W
associated with DP084, wall sample

Sketch Location:



Logged BY / Date: 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-21

Location Code: **FFOR-EXC-64**
Sample Number: **FFOR-CF-0070**
Sample Name: **FFOR-EXC-64-DS-FFOR-CF-0070-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

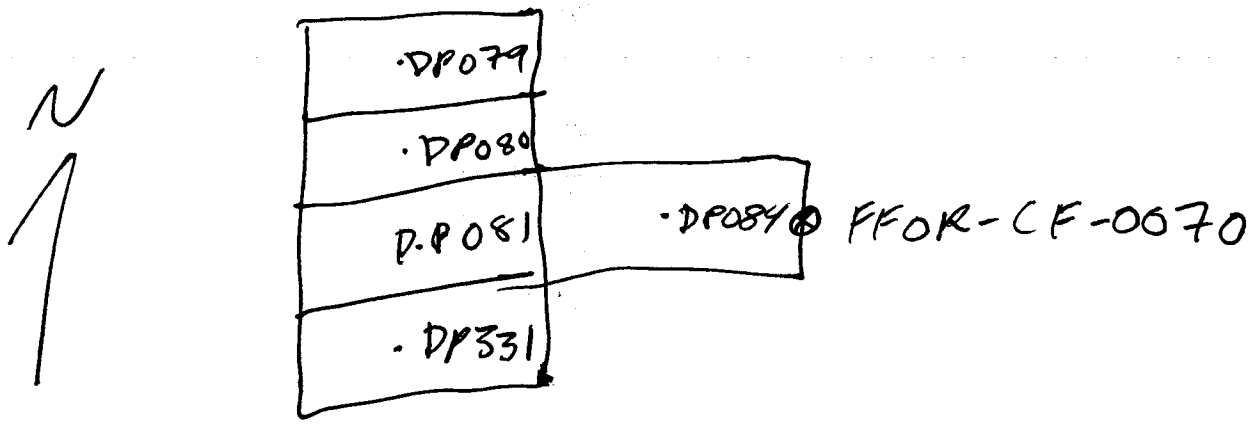
Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 1445
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, CG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 808 ppm
coor.: 35°02'58.636"N, 106°34'50.935"W
associated with DP084, wall sample

Sketch Location:



Logged BY / Date: 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC.3

Location Code: **FFOR-EXC-64**

Sample Number: **FFOR-CF-0070-MS**

Sample Name: **FFOR-EXC-64-DS-FFOR-CF-0070-MS-MS**

Sampling Method: **G**

Sample Type: **DS** *Sample Purpose:* **MS**

Sampling Equip: disposable

QC Partners:

(TB) (ER) (FB)

Task: 140705-FFOR-EXC

Collection Date: 9/4/14

Collection Time: 1445

Start Depth: 10 ft

End Depth: 10 ft

Sample Matrix: SO

Sample Team: TK LG

ERPIMS Values:

Sacode:

Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments:

See parent

Sketch Location:

See parent

Logged BY / Date: L Kimball 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-21

Location Code: **FFOR-EXC-64**

Sample Number: **FFOR-CF-0070-MSD**

Sample Name: **FFOR-EXC-64-DS-FFOR-CF-0070-MSD-MSD**

Sampling Method: **G**

Sample Type: **DS** *Sample Purpose:* **MSD**

Sampling Equip: Disposable

QC Partners:

(TB) (ER) (FB)

Task: 140705-FFOR-EXC

Collection Date: 9/4/14

Collection Time: 1445

Start Depth: 10 ft

End Depth: 10 ft

Sample Matrix: **SO**

Sample Team: TK LG

ERPIMS Values: ✓

Sacode:

Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments:

See parent

Sketch Location:

See parent

Logged BY / Date: L Kendall 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-21

Location Code: **FFOR-EXC-65**
Sample Number: **FFOR-CF-0071**
Sample Name: **FFOR-EXC-65-DS-FFOR-CF-0071-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

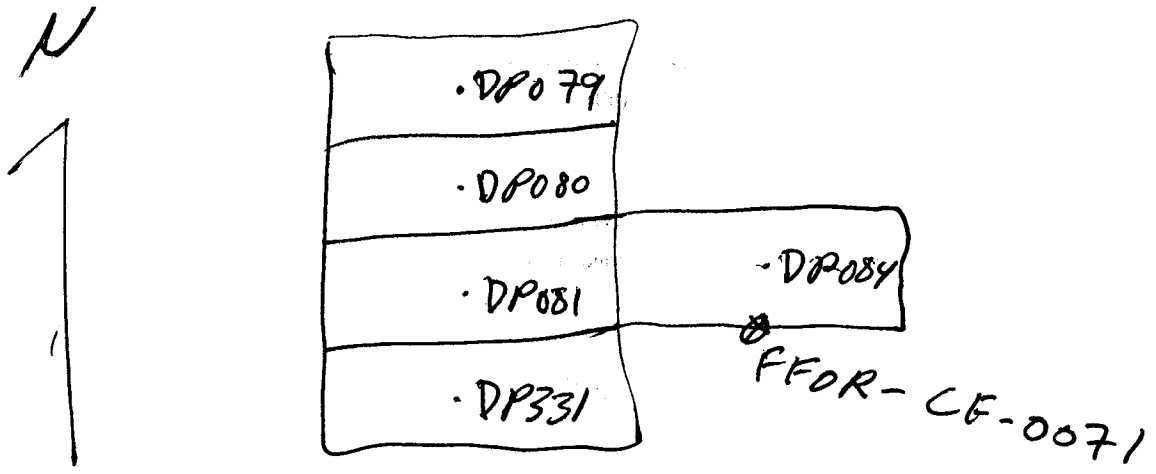
Task: 140705-FFOR-EXC
Collection Date: 9/4/14
Collection Time: 1454
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 51.7 ppm
Coor.: 35°02'58.602"N, 106°34'50.995"W
associated with DP084 wall sample

Sketch Location:



Logged BY / Date: [signature] 9/4/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXC-66**
Sample Number: **FFOR-CF-0072**
Sample Name: **FFOR-EXC-66-DS-FFOR-CF-0072-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

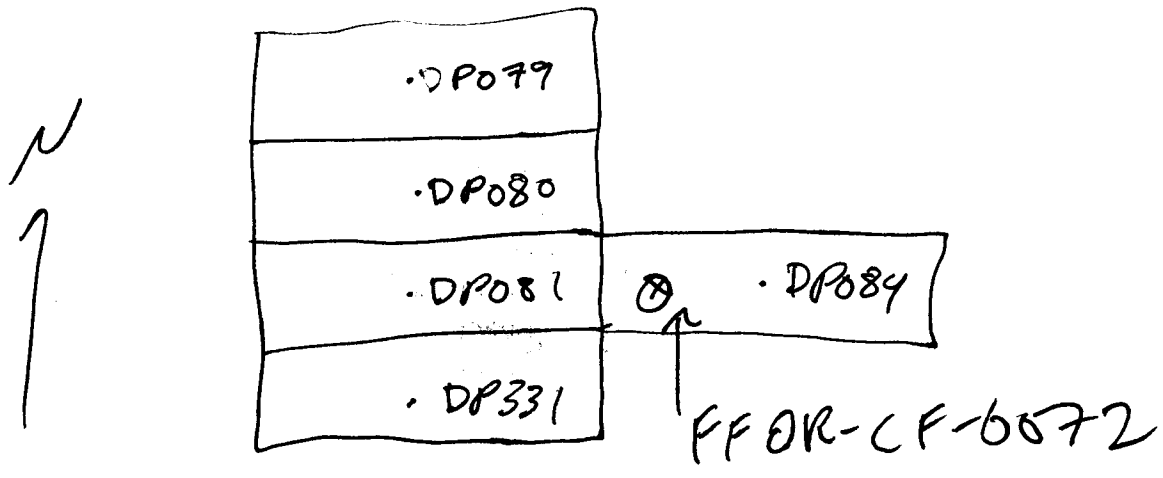
Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 0810
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values: /
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 1357 PPM
coor.: 35°02'58.632"N, 106°34'51.028"W
associated with DP084, floor

Sketch Location:



Logged BY / Date: 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORBXC-22

Location Code: **FFOR-EXC-67**
Sample Number: **FFOR-CF-0073**
Sample Name: **FFOR-EXC-67-DS-FFOR-CF-0073-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 0905
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

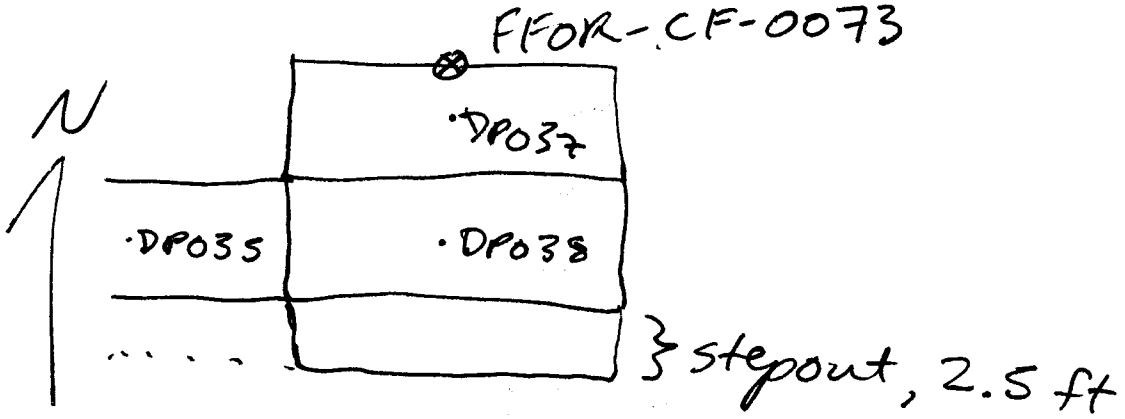
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 43.1 ppm
coor.: 35°02'58.696" N, 106° 34'52.719" W
associated with DP037 and DP038

Sketch Location:



Logged BY / Date: 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXC-68**
Sample Number: **FFOR-CF-0074**
Sample Name: **FFOR-EXC-68-DS-FFOR-CF-0074-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

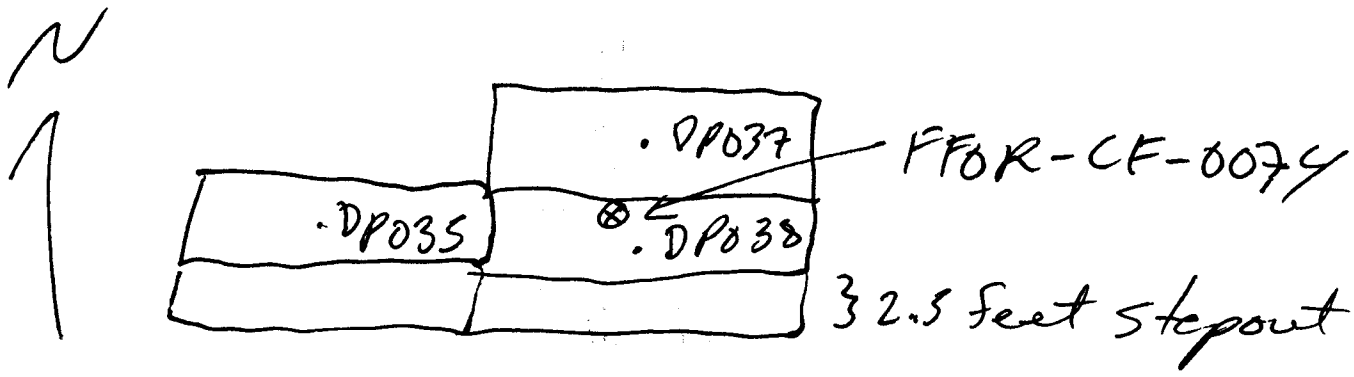
Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 1116
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 2698 ppm
Coor.: 35° 02' 58.702" N 106° 34' 52.702" W
associated with DP037, DP038; floor at 20 ft

Sketch Location:



Logged BY / Date: 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-22

Location Code: **FFOR-EXC-69**
Sample Number: **FFOR-CF-0075**
Sample Name: **FFOR-EXC-69-DS-FFOR-CF-0075-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

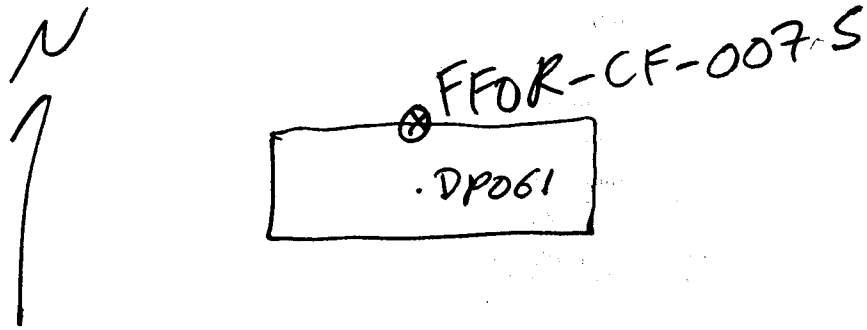
Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 1319
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 9.7 ppm
Coor.: 35°02'58.679"N, 106°34'51.891"W
associated with DP061, wall

Sketch Location:



Logged BY / Date: L Kulas 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXC-70**
Sample Number: **FFOR-CF-0076**
Sample Name: **FFOR-EXC-70-DS-FFOR-CF-0076-REG**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

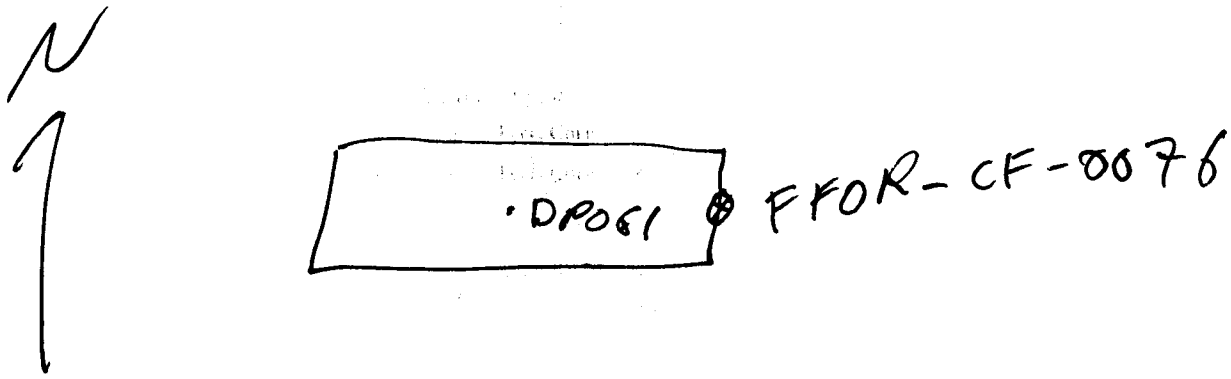
Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 1329
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: SO
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 33.3 ppm
Coor.: 35°02'58.630"N 106°34'51.805"W
associated with DP061, wall

Sketch Location:



Logged BY / Date: 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXC-70**
Sample Number: **FFOR-CF-0077**
Sample Name: **FFOR-EXC-70-DS-FFOR-CF-0077-FD**
Sampling Method: **G**
Sample Type: **DS** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 1329
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK, CG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: See parent for PID and coor. associated with DP061, wall

Sketch Location:

See parent for sketch

Logged BY / Date: L Kuhl 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

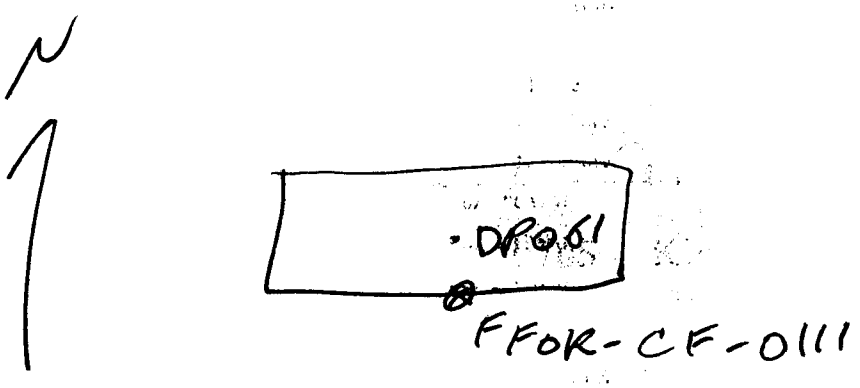
Location Code: FFOR-EXC-71
Task: 140705-FFOR-EXC
Sample Number: FFOR-CF-~~0001~~ TSR 0111
Collection Date: 9/5/14
Sample Name: FFOR-EXC-71-DS-FFOR-CF-0111-REG
Collection Time: 1346
Sampling Method: G
Start Depth: 7.5 ft
Sample Type: DS
Sample Purpose: REG
End Depth: 7.5 ft
Sampling Equip: disposable
Sample Matrix: SO
QC Partners:
(TB) _____ (ER) _____ (FB) _____
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 4.9 ppm
Coor.: 35°02'58.602"N, 106°34'51.873"W
associated with DP061, wall

Sketch Location:



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Reviewed BY / Date: _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: FFOR-EXC-72
Sample Number: FFOR-CF-0112
Sample Name: FFOR-EXC-72-DS-FFOR-CF-0112-REG
Sampling Method: G
Sample Type: DS
Sample Purpose: REG
Sampling Equip: disposable

Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 1355
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: SO
Sample Team: TK, LG

QC Partners:
(TB) _____ (ER) _____ (FB) _____

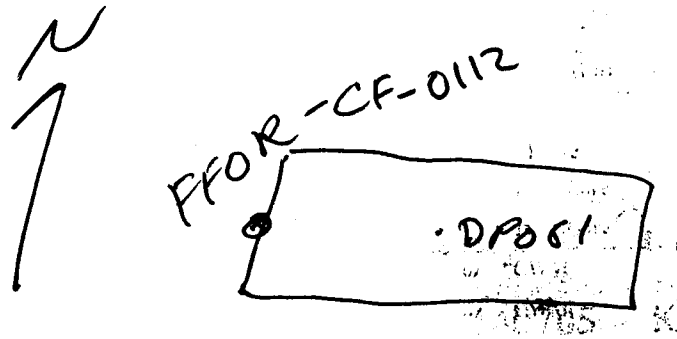
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 7.0 ppm
Coor.: 35°02'58.633"N 106°34'51.947"W
associated with DP061, wall

Sketch Location:



Logged BY / Date: [signature] 9/5/14 *Reviewed BY / Date:* _____

Sample Collection Log

Shaw E & I, Inc.

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXC-** 73

Task: 140705-FFOR-EXC

Sample Number: **FFOR-CF-** 0113

Collection Date: 9/5/14

Sample Name: **FFOR-EXC-**73-DS-FFOR-CF-0113-REG

Collection Time: 1440

Sampling Method: **G**

Start Depth: 15 ft

Sample Type: **DS**

Sample Purpose: **REG**

End Depth: 15 ft

Sampling Equip: disposable

Sample Matrix: **SO**

QC Partners:

(TB) _____ (ER) _____ (FB) _____

Sample Team: TK, LG

ERPIMS Values:

Sacode:

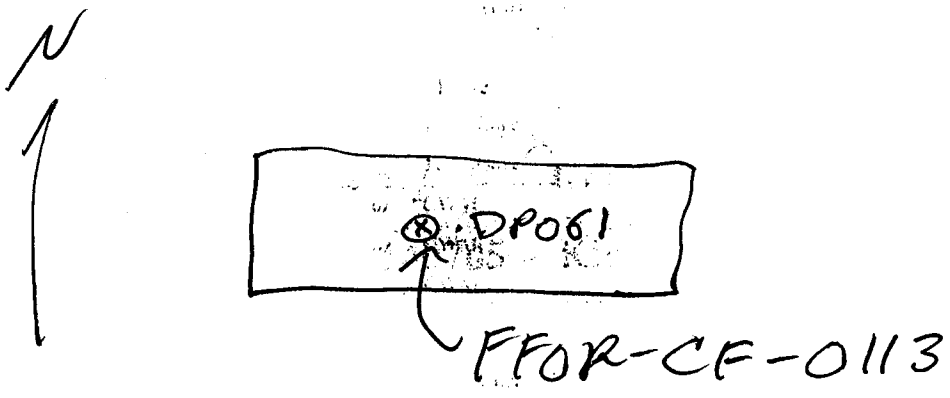
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8015B-GRO	N	A	1	5	g	TerraCore
SW8260B	N	A	1	5	g	TerraCore
SW6010B-Pb	N	B	1	8	oz	CWM
SW8270D	N	B	1	8	oz	CWM
TPH 8015 DRO	N	B	1	8	oz	CWM

Comments: PID: 19.3 ppm
coor.: 35°02'58.663"N, 106°34'51.907"W
associated with DP061, floor at 15 ft

Sketch Location:



Logged BY / Date: K Kuhl 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-0007

Location Code: **FFOR-EXCSO-01**
Sample Number: **FFOR-CF-0078**
Sample Name: **FFOR-EXCSO-01-SO-FFOR-CF-0078-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

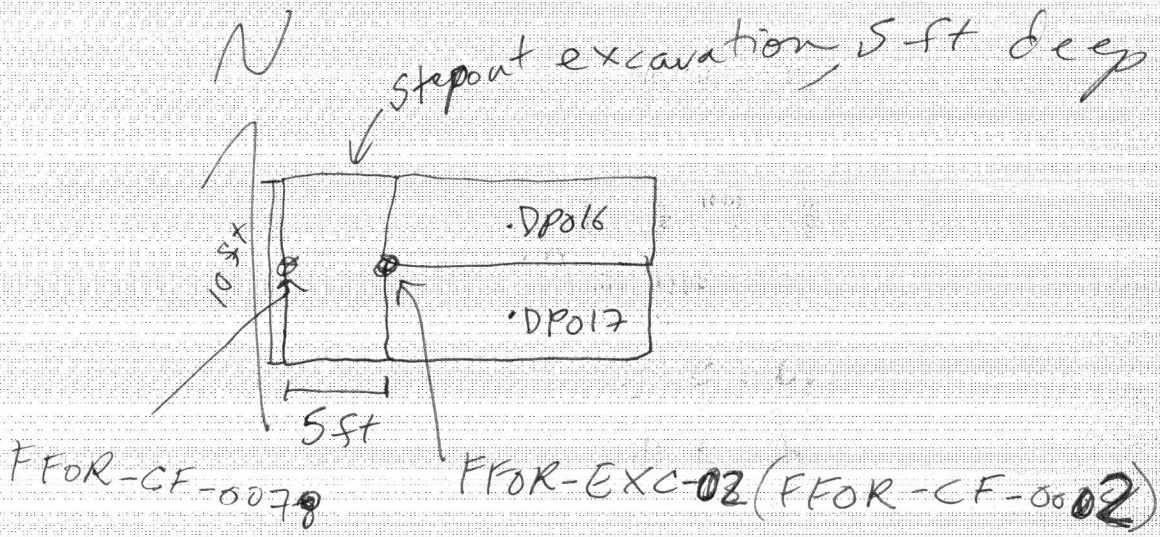
Task: **140705-FFOR-EXC**
Collection Date: 7/21/14
Collection Time: 1115
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

Comments: PID: 0.7 ppm
coor: 35°02'58.628"N, 106°34'53.672"W
associated with DP016 and DP017 and hot sample FFOR-CF-0002

Sketch Location:



Logged BY / Date: 7/21/14 *Reviewed BY / Date:* 07/21/14

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0008

Location Code: **FFOR-EXCSO-02**
Sample Number: **FFOR-CF-0079**
Sample Name: **FFOR-EXCSO-02-SO-FFOR-CF-0079-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

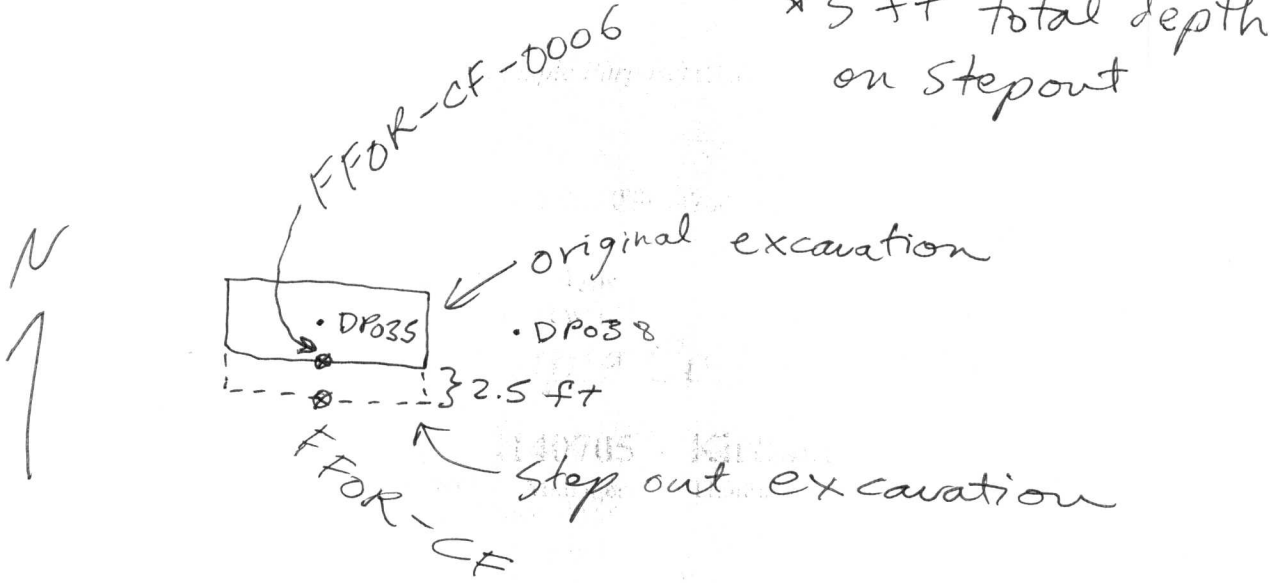
Task: **140705-FFOR-EXC**
Collection Date: 0930
Collection Time: 7/24/14
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

Comments: PID: 1.6 ppm
coor: 1272863.52 ft N, 1167263.97 ft E
associated with DP035 and FFOR-CF-0006

Sketch Location:



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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0008

Location Code: **FFOR-EXCSO-03**
Sample Number: **FFOR-CF-0080**
Sample Name: **FFOR-EXCSO-03-SO-FFOR-CF-0080-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 1039
Collection Time: 7/24/14
Start Depth: 5 ft
End Depth: 5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

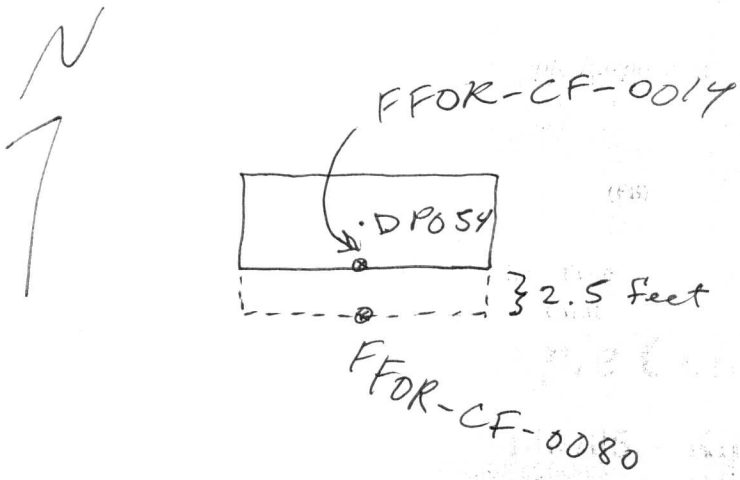
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 0.0 ppm
coor.: 1272863.47 ft N, 1167324.53 ft E
associated with DP054 and FFOR-CF-0014

Sketch Location:



*10 ft total depth on steponit

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0008

Location Code: **FFOR-EXCSO-04**
Sample Number: **FFOR-CF-0081**
Sample Name: **FFOR-EXCSO-04-SO-FFOR-CF-0081-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/24/14
Collection Time: 1457
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

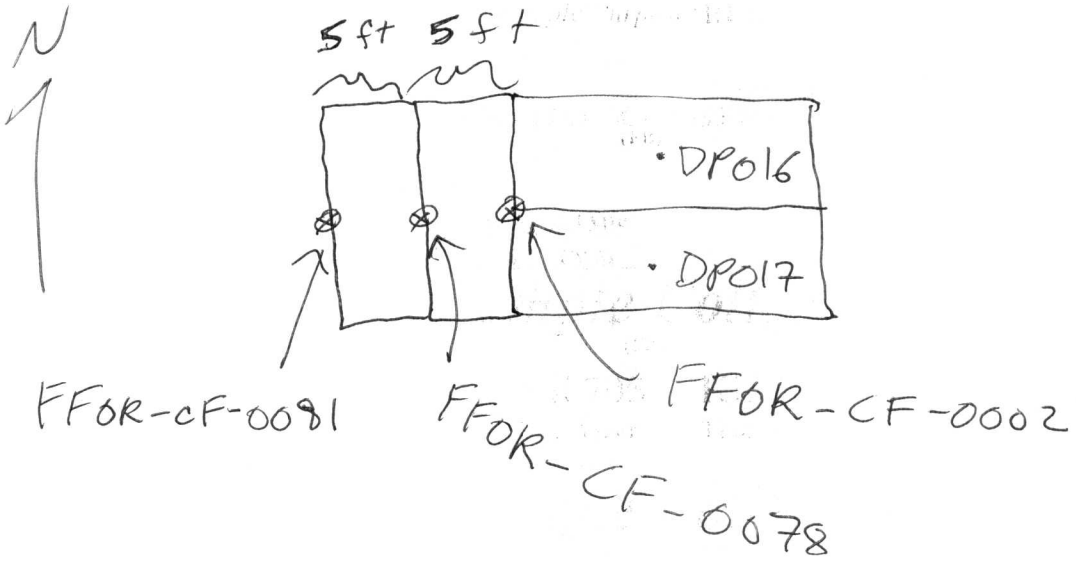
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 0.0 ppm
coor.: 12728640.58 ft N, 1167187.72 ft E
associated with DP016 and DP017, FFOR-CF-0002 and stepout FFOR-CF-0078

Sketch Location:

2nd stepout for DP016 and DP017



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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0008

Location Code: **FFOR-EXCSO-04**
Sample Number: **FFOR-CF-0081-MS**
Sample Name: **FFOR-EXCSO-04-SO-FFOR-CF-0081-MS-MS**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **MS**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 7/24/14
Collection Time: 1457
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: see parent for PID and coor.
2nd stepout for DP016 and DP017

Sketch Location:

See parent

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0008

Location Code: **FFOR-EXCSO-04**
Sample Number: **FFOR-CF-0081-MSD**
Sample Name: **FFOR-EXCSO-04-SO-FFOR-CF-0081-MSD-MSD**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **MSD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 7/24/14
Collection Time: 1457
Start Depth: 2.5 ft
End Depth: 2.5 ft
Sample Matrix: **SO**
Sample Team: TK, LG

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: See parent for PID and coor
2nd Stepout for DP016 and DP017

Sketch Location:

See parent

Logged BY / Date: [signature] 7/24/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0013

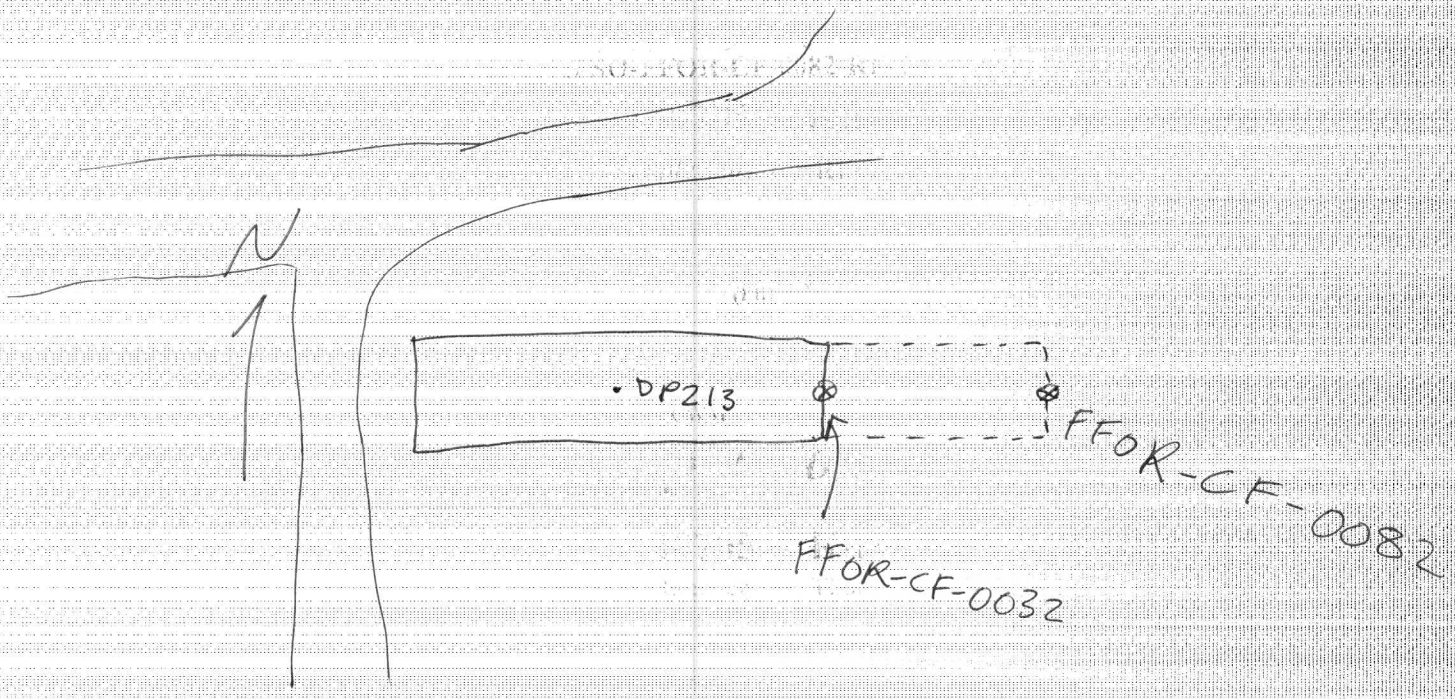
Location Code:	**FFOR-EXCSO-05**	*Task:*	**140705-FFOR-EXC**
Sample Number:	**FFOR-CF-0082**	*Collection Date:*	8/15/14
Sample Name:	**FFOR-EXCSO-05-SO-FFOR-CF-0082-REG**	*Collection Time:*	1351
Sampling Method:	**CS**	*Start Depth:*	7.5 ft
Sample Type:	**SO** *Sample Purpose:* **REG**	*End Depth:*	7.5 ft
Sampling Equip:	disposable	*Sample Matrix:*	**SO**
QC Partners:		*Sample Team:*	TK
(TB)	(ER) (FB)	**ERPIMS Values:**	
		Sacode:	
		Lot Control#:	

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N		1	8	oz	CWM

Comments: PID: 2.7 ppm
coor.: 35°02'53.930"N, 106°34'46.166"W
stepout at 213, primary sample FFOR-CF-0032 was above SSL.

Sketch Location:



Logged BY / Date: 8/15/14

Reviewed BY / Date:

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-0020

Location Code: **FFOR-EXCSO-06**
Sample Number: **FFOR-CF-0083**
Sample Name: **FFOR-EXCSO-06-SO-FFOR-CF-0083-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

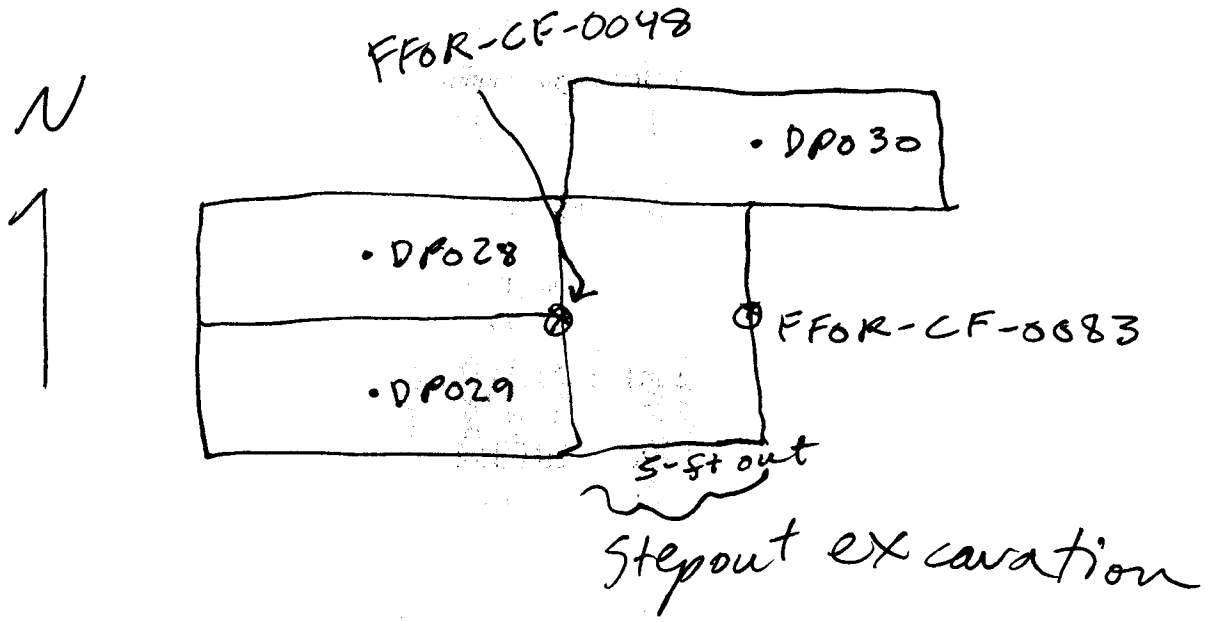
Task: **140705-FFOR-EXC**
Collection Date: 9/3/14
Collection Time: 0828
Start Depth: 10ft
End Depth: 10ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

Comments: PID: 175 ppm
Coor.: 35°02'58.618"N, 106°34'52.873"W
associated with DP028, DP029 and hot sample FFOR-CF-0048

Sketch Location:



Logged BY / Date: 9/3/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-22

Location Code: **FFOR-EXCSO-07**
Sample Number: **FFOR-CF-0084**
Sample Name: **FFOR-EXCSO-07-SO-FFOR-CF-0084-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 0913
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: SO
Sample Team: TK, LG

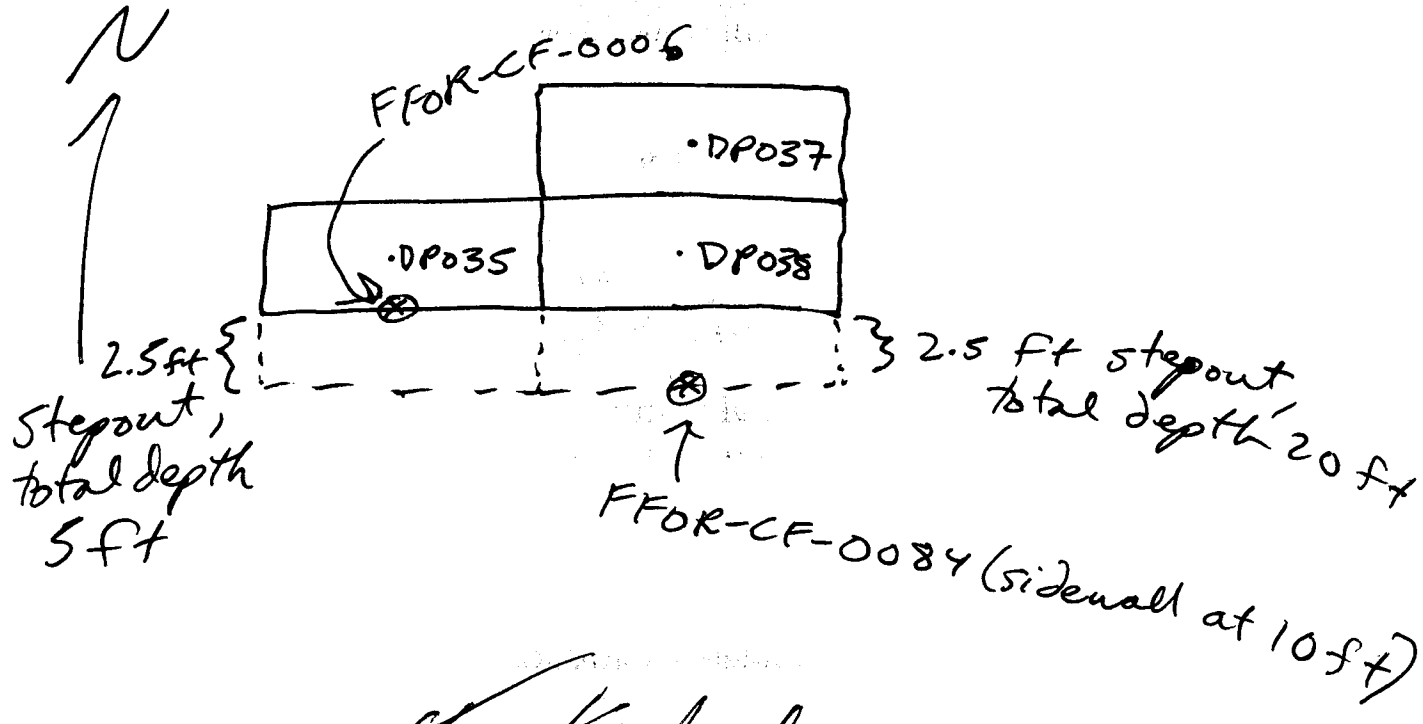
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 13.2 ppm
coor.: 35°02'58.587"N, 106°34'52.709"W not sample associated with DP037, DP038 and FFOR-CF-0006

Sketch Location:



Logged BY / Date: L Kuhl 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-22

Location Code: **FFOR-EXCSO-07**
Sample Number: **FFOR-CF-0085**
Sample Name: **FFOR-EXCSO-07-SO-FFOR-CF-0085-FD**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **FD**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/5/14
Collection Time: 0913
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

Comments: see parent for PID and coor. associated with DP037, DP038 and hot sample FFOR-CF-0006

Sketch Location: See parent for sketch

Logged BY / Date: [signature] 9/5/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-23

Location Code: **FFOR-EXCSO-08**
Sample Number: **FFOR-CF-0086**
Sample Name: **FFOR-EXCSO-08-SO-FFOR-CF-0086-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: Disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/8/14
Collection Time: 0938
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG

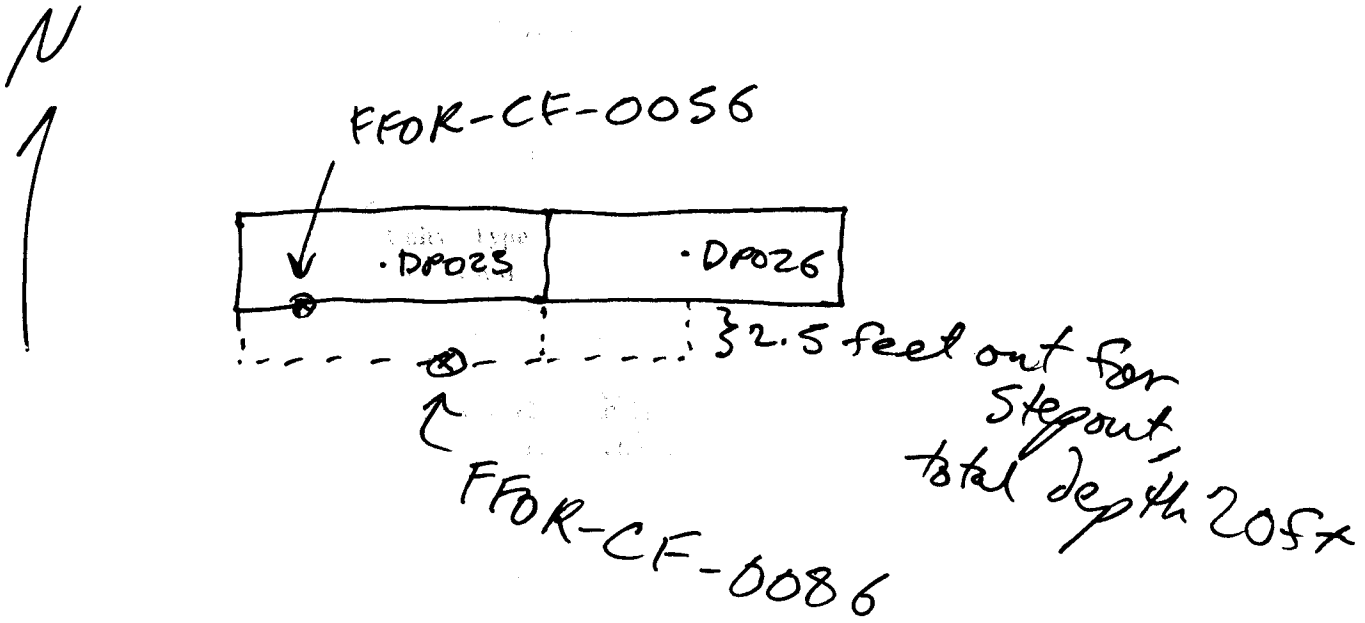
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 2.3 ppm
Coor.: 35°02'58.571"N, 106°34'53.277"W
associated with DP023 and DP026 and hot sample FFOR-CF-0056

Sketch Location:



Logged BY / Date: 9/8/14 *Reviewed BY / Date:* _____

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Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFORExc-23

Location Code: **FFOR-EXCSO-09**
Sample Number: **FFOR-CF-0087**
Sample Name: **FFOR-EXCSO-09-SO-FFOR-CF-0087-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

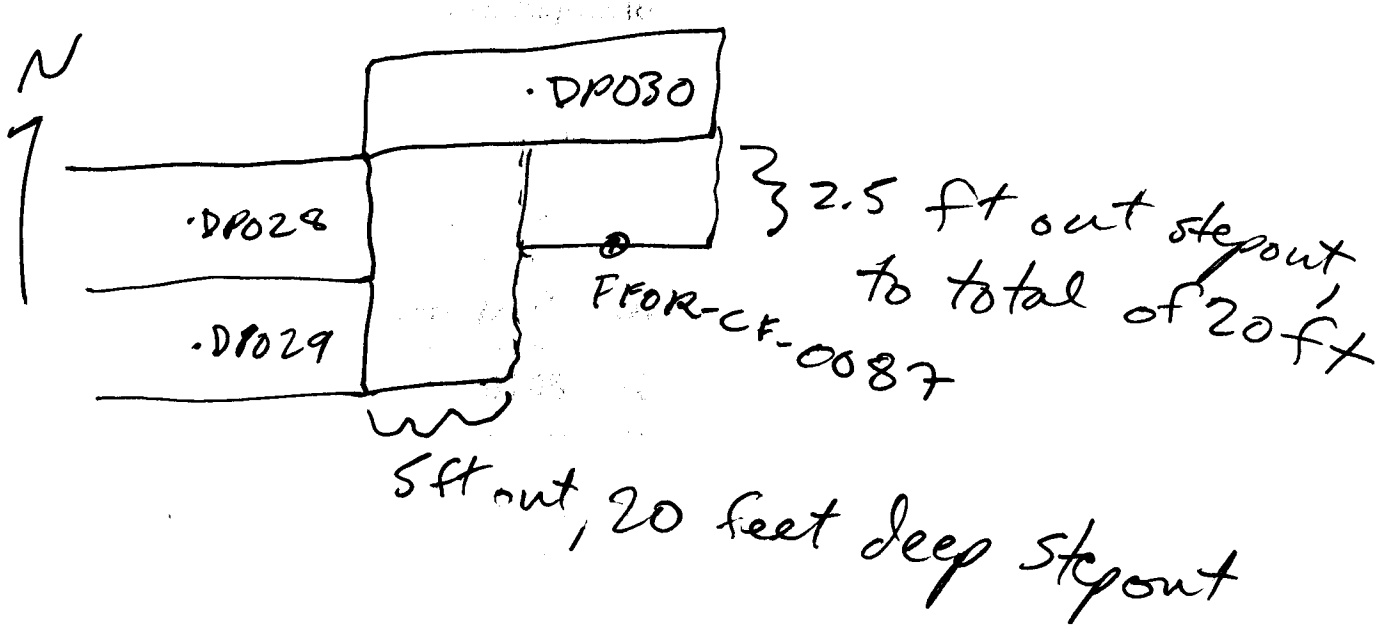
Task: 140705-FFOR-EXC
Collection Date: 9/8/14
Collection Time: 1112
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK LG
ERPIMS Values: /
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

Comments: PID: 1.9 ppm
coor.: 35°02'58.647"N, 106°34'52.868"W
associated with DP030 and hot sample FFOR-CF-0059

Sketch Location:



Logged BY / Date: 9/8/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB
Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-23

Location Code: **FFOR-EXCSO-10**
Sample Number: **FFOR-CF-0088**
Sample Name: **FFOR-EXCSO-10-SO-FFOR-CF-0088-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

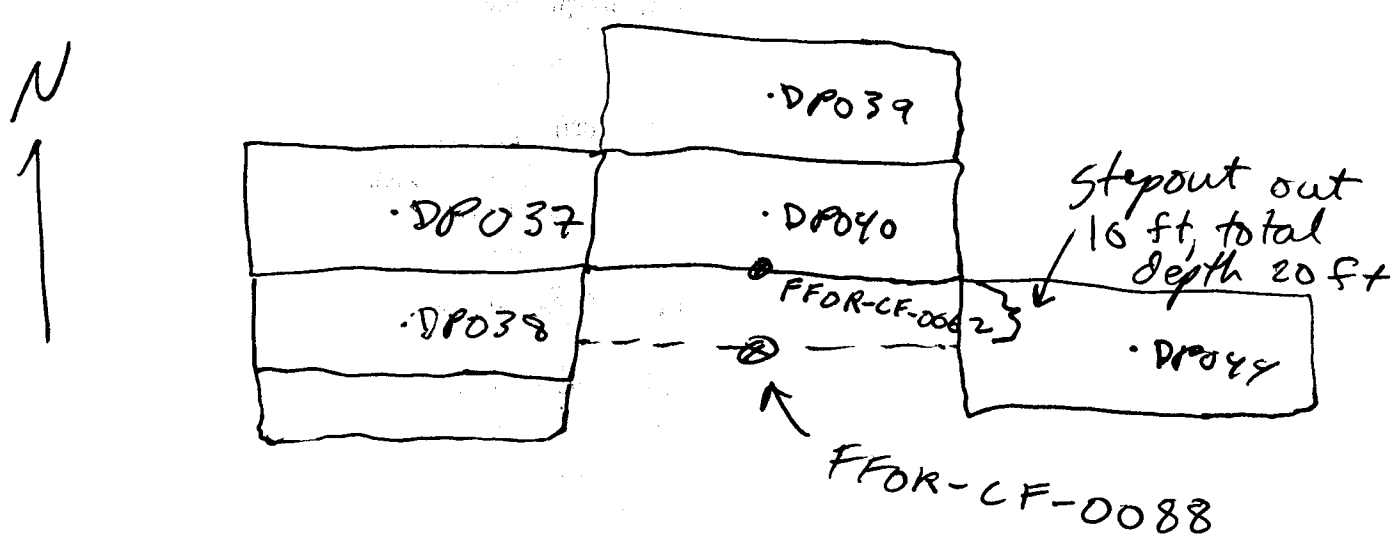
Task: 140705-FFOR-EXC
Collection Date: 9/8/14
Collection Time: 1329
Start Depth: 10 ft
End Depth: 10 ft
Sample Matrix: **SO**
Sample Team: TK, LG
ERPIMS Values:
Sacode:
Lot Control#:

Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

Comments: PID: 92.0 ppm
coor.: 35°02'58.574"N, 106°34'52.602"W
associated with DP040 and hot sample FFOR-CF-0062

Sketch Location:



Logged BY / Date: L Kadel 9/10/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-24

Location Code: **FFOR-EXCSO-11**
Sample Number: **FFOR-CF-0089**
Sample Name: **FFOR-EXCSO-11-SO-FFOR-CF-0089-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/10/14
Collection Time: 0839
Start Depth: 20 ft
End Depth: 20 ft
Sample Matrix: **SO**
Sample Team: TK

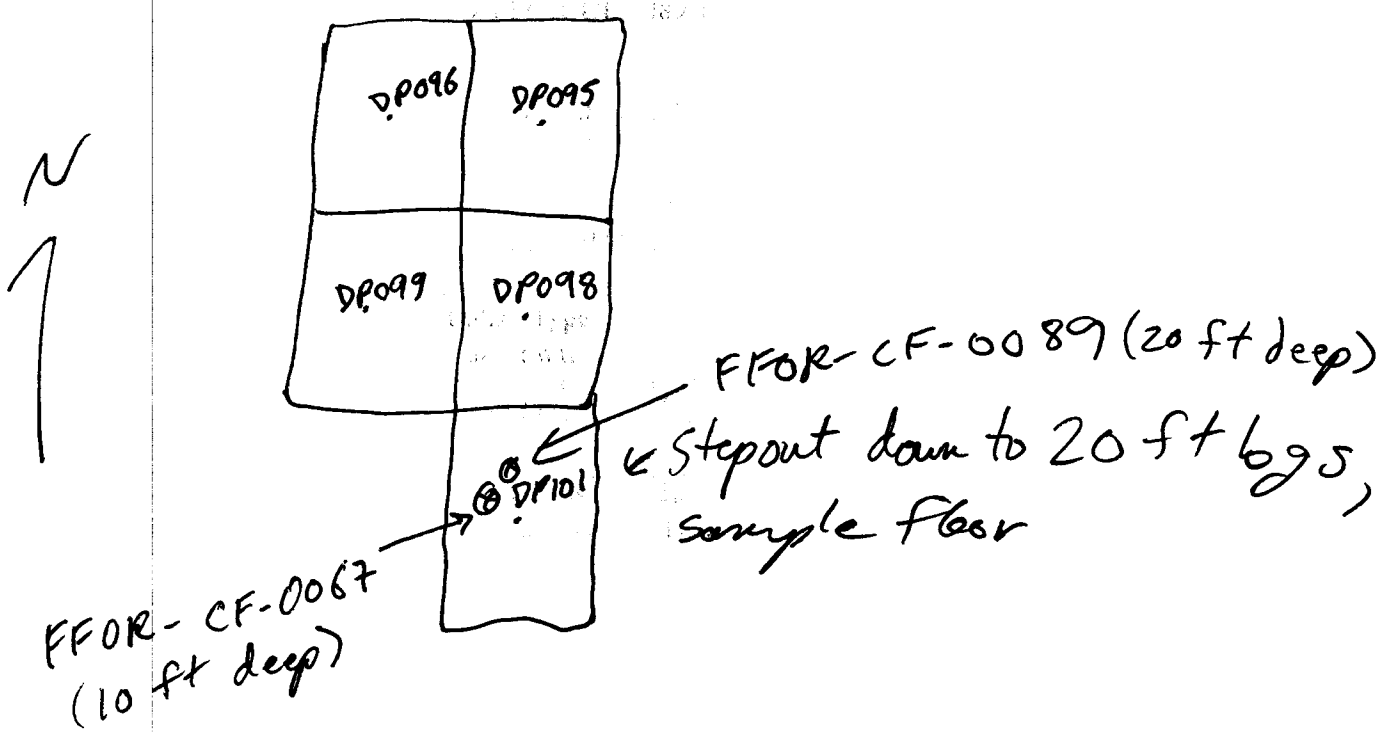
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 186 ppm
Coor.: 35°02'58.344"N, 106°34'50.794"W
associated with DP101 and hot floor sample at 10 ft

Sketch Location:



Logged BY / Date: 9/10/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOR-EXC-25

Location Code: **FFOR-EXCSO-12**
Sample Number: **FFOR-CF-0090**
Sample Name: **FFOR-EXCSO-12-SO-FFOR-CF-0090-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: **140705-FFOR-EXC**
Collection Date: 9/11/14
Collection Time: 0750
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: **SO**
Sample Team: TK

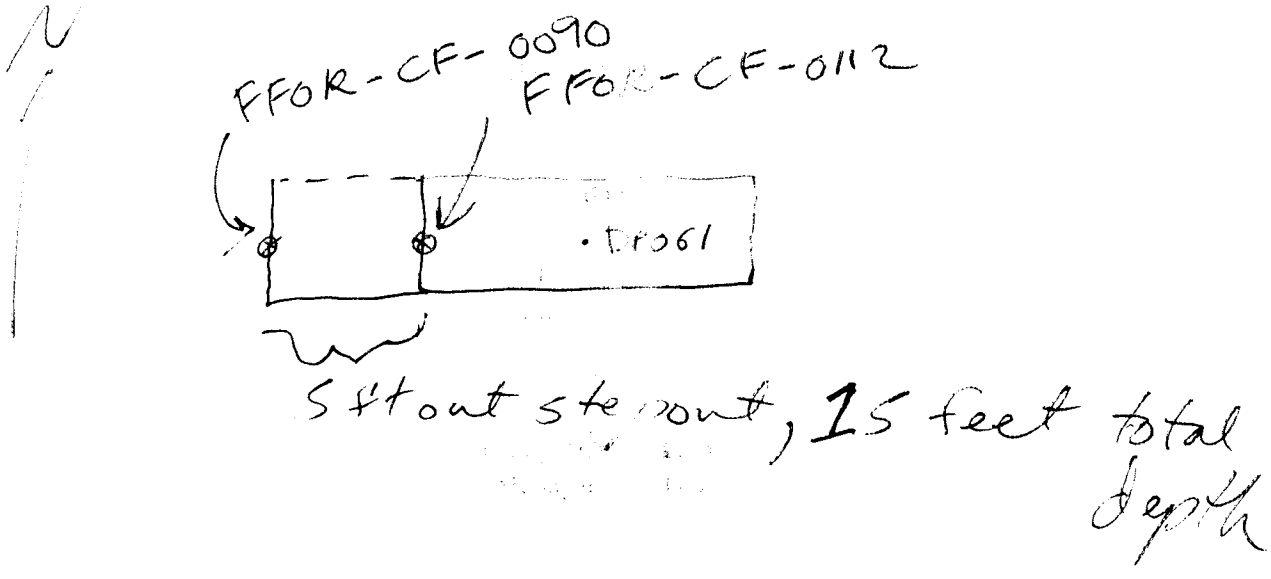
Containers

Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 0.3 ppm
coor.: 35°02'58.622"N, 106°34'52.004"W
associated with DP061 and hot sample FFOR-CF-0112

Sketch Location:



Logged BY / Date: [signature] 9/11/14 *Reviewed BY / Date:* _____

Shaw™
Shaw E & I, Inc.

Sample Collection Log

140705 - Kirtland AFB

Manager: Thomas Cooper

RFA / COC Number: 140705-FFOREXC-26

Location Code: **FFOR-EXCSO-13**
Sample Number: **FFOR-CF-0091**
Sample Name: **FFOR-EXCSO-13-SO-FFOR-CF-0091-REG**
Sampling Method: **CS**
Sample Type: **SO** *Sample Purpose:* **REG**
Sampling Equip: disposable
QC Partners:
(TB) (ER) (FB)

Task: 140705-FFOR-EXC
Collection Date: 9/16/14
Collection Time: 0740
Start Depth: 7.5 ft
End Depth: 7.5 ft
Sample Matrix: SO
Sample Team: TK, LG

Containers

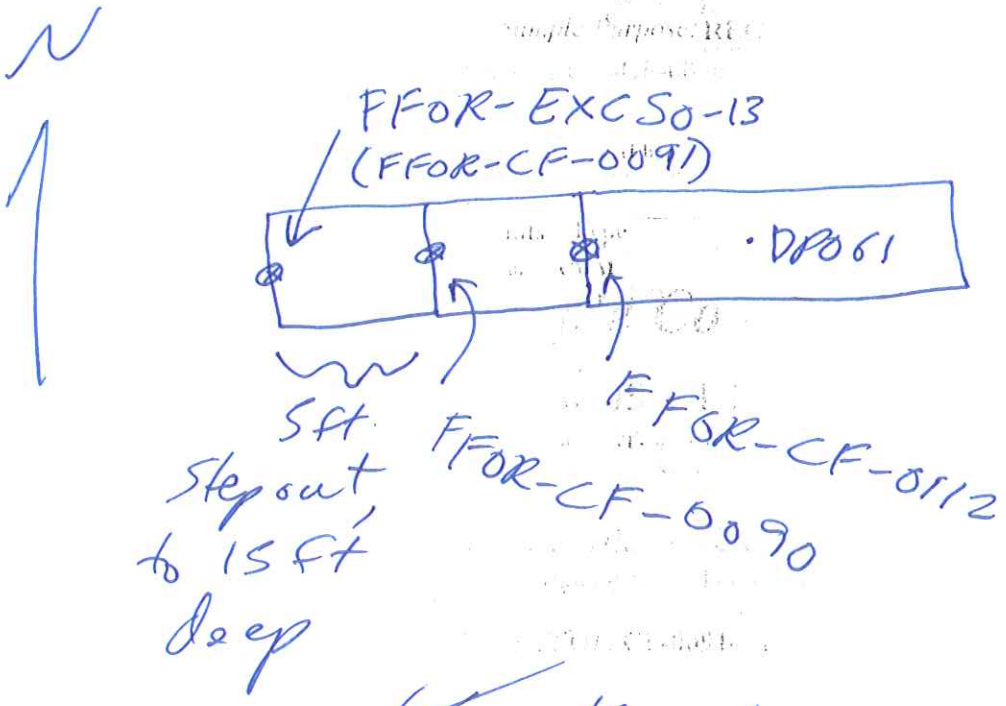
Analytical Suite	Flt	Frtn	Qty	Size	Units	Type
SW8270D-PAHs	N	X	1	8	oz	CWM

ERPIMS Values:
Sacode:
Lot Control#:

Comments: PID: 0.0 ppm
Coor.: 35°02'58.653"N, 106°34'52.055"W
associated with DP061, and hot sample FFOR-CF-0090

Sketch Location:

Second Stepout



Logged BY / Date: 9/16/14 *Reviewed BY / Date:* _____

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/07/14 TIME: 13:20

FULL WEIGHT: 70380 Remarks if needed: NO WEIGHTS IN OR OUT AT DRMO

EMPTY WT: 32920

NET WEIGHT: 37,460

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 52485

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/07/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	07/07/2014 14:49:29	Inbound	B Bode		Gross	70380
Out	07/07/2014 15:32:09	outbound	B Bode		Tare	32920
					Net	37460
					Tons	18.7

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoil/Pet-Tons-Cont.	S 100	18.73	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment No. 59466

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address	KIRTLAND AIR FORCE BASE 5202 RANDOLPH AVE KAFB, NM 87117
2. Generator's name and address	KIRTLAND AIR FORCE BASE 5202 RANDOLPH AVE. KAFB, NM 87117
Generator's Telephone no.	505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)	
Agent's Telephone no.	

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (tons)
NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL	1	DT	20 yds

7. Special handling instructions:

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
TODD A. HILTMAN		07 / 07 / 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	12:45 PM Signature	Month / Day / Year
Rhino Environmental Services, Inc. **4602 Hondo Pass, Ste. K** **El Paso, TX 79904** **915-346-4355**		07 / 07 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates PCS CELL-ES Soil Farm Cell ES N: 34° 43. 413 W: 107° 02. 153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bolt		7 / 7 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/08/14 TIME: 07:50

FULL WEIGHT: 77040 Remarks if needed: _____

EMPTY WT: 32880 _____

NET WEIGHT: 44160 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: TRUCK # 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

#530

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62505

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	07/08/2014 09:34:00	Inbound	B Bode		Gross	77060 l
Out	07/08/2014 10:17:07	outbound	B Bode		Tare	32820 l
					Net	44240 l
					Tons	22.1

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.12	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484		WMNA	71414-82
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4/4/12		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	4	4	2012

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	4	8	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 02/08/14 TIME: 07:50

FULL WEIGHT: 80540 Remarks if needed: _____

EMPTY WT: 36960 _____

NET WEIGHT: 43580 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing):

A. Manifest Number **WMNA** 71414-79
B. State Generator's ID NA

5. Transporter 1 Company Name
CASIAS TRUCKING

6. US EPA ID Number
NA

C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number
NA

G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62506

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/08/2014 09:35:08	Inbound	B Bode		Gross	80480 l
Out	07/08/2014 10:20:39	outbound	B Bode		Tare	36800 l
					Net	43680 l
					Tons	21.8

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.84	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/08/14 TIME: 07:50

FULL WEIGHT: 81440 Remarks if needed: _____

EMPTY WT: 36860 _____

NET WEIGHT: 44580 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Ph: 505-917-6232

Original
Ticket# 62507

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking		
Ticket Date	07/08/2014	Vehicle#	LC624	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Route		Check#			
Hauling Ticket#		Billing#	0000001		
Destination		Grid			
PO#					

	Time	Scale	Operator	Inbound		
In	07/08/2014 09:36:29	Inbound	B Bode		Gross	81440 l
Out	07/08/2014 10:27:20	outbound	B Bode		Tare	36740 l
					Net	44700 l
					Tons	22.3

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.35	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Shepherd

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of
	NA	1

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA 71414-80
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403
CASIAS TRUCKING	NA	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	[illegible]		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	6	5	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	7	5	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/08/14 TIME: 12:05

FULL WEIGHT: 76280 Remarks if needed: _____

EMPTY WT: 32820 _____

NET WEIGHT: 43460 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne T. Hartz Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 62522

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	07/08/2014 13:03:20	Inbound	B Bode		Gross	76140 l
Out	07/08/2014 13:40:00	outbound	B Bode		Tare	32680 l
					Net	43460 l
					Tons	21.7

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	21.73	Tons			SANJUAN

Driver's Signature Gustavo Espinoza

Total Tax
Total Ticket

03WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 71414-101 B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
RHINO ENVIRONMENTAL	NA	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL - IRM N 34°43.413 W 107°02.153 Elev 54

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Poole		7	8	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/08/14 TIME: 12:06

FULL WEIGHT: 81620 Remarks if needed: _____

EMPTY WT: 36800 _____

NET WEIGHT: 44820 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Ettner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62523

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/08/2014 13:05:54	Inbound	B Bode		Gross	81420
Out	07/08/2014 13:42:55	outbound	B Bode		Tare	36660
					Net	44760
					Tons	22.3

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.38	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

7/8/1

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of
	NA	1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: **WMNA** 71414-78

B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		7	6	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		7	8	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 02/08/14 TIME: 12:07

FULL WEIGHT: 80740 Remarks if needed: _____

EMPTY WT: 36740 _____

NET WEIGHT: 44000 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne E. Baker Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62524

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/08/2014 13:07:25	Inbound	B Bode		Gross	80540 l
Out	07/08/2014 13:50:52	outbound	B Bode		Tare	36760 l
					Net	43780 l
					Tons	21.8

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.89	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Shepherd

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number **WMNA** 71414-77

B. State Generator's ID NA

5. Transporter 1 Company Name
CASIAS TRUCKING

6. US EPA ID Number NA

C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Cole		7	8	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

11:10 - OUT 12:15

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 7/8/14 TIME: 12:15

FULL WEIGHT: 78440 Remarks if needed: _____

EMPTY WT: 36680 _____

NET WEIGHT: 41760 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Tafoya Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62540

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator			
In	07/09/2014 07:02:12	Inbound	B Bode	Inbound	Gross	78420
Out	07/09/2014 07:41:09	outbound	B Bode		Tare	32540
					Net	45880
					Tons	22.9

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.94	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: **WMNA** 71414-99
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4.17		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. J. Martinez		7	18	2014

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOILFARM N 3443.153 W 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bole		7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

07/09/14

truck #	net weight
620	39,880
624	44,720
530	44,000
624	38,840
620	44,320

211,760 lbs

105.88 tons

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/09/14 TIME: 0735

FULL WEIGHT: 79340 Remarks if needed: _____

EMPTY WT: 36660 _____

NET WEIGHT: 42680 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: _____ Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Ph: 505-917-6232

Original
Ticket# 62545

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 08:40:46	Inbound	B Bode		Gross	75020 l
Out	07/09/2014 09:10:33	outbound	B Bode		Tare	35140 l
					Net	39880 l
					Tons	19.9

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.94	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-75

B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name

8. US EPA ID Number: US EPA ID Number

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	12.40	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number

EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	6	13	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	7	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bello	[signature]	7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 01/09/14 TIME: 07:35

FULL WEIGHT: 79340 Remarks if needed: _____

EMPTY WT: 36660 _____

NET WEIGHT: 42680 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: _____ Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62545

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking		
Ticket Date	07/09/2014	Vehicle#	LC 620	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Route		Check#			
Hauling Ticket#		Billing#	0000001		
Destination		Grid			
PO#					

	Time	Scale	Operator	Inbound		
In	07/09/2014 08:40:46	Inbound	B Bode		Gross	75020 l
Out	07/09/2014 09:10:33	outbound	B Bode		Tare	35140 l
					Net	39880 l
					Tons	19.9

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.94	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generato Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing)

A. Manifest Number WMNA 71414-75

B. Sta e Generator's ID NA

4. Generator's Phone 505-853-3484

5. Transporter 1 Compa Name
CASIAS TRUCKING

6. US EPA ID Number NA

C. State Transp er's ID 101 03

D. Transporter's Phone 505-991-2000

7. Tra sporter 2 Compan Name

8. US EPA ID Number

E. State ransporter's ID

F. ransporter's Phone

9. Designated Facili Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID 013230

H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	Containers No.	Containers Type	13. Tota Quantity	14. Uni Wt./Vol.	I. Misc. Comments
a. NON- O ETROLEUM CONTAMNINATED SOIL rofile # 103057NM	1	D			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

I. ddltiona Materials Listed Above

K. Disposal Location
Cell Level
Grid

15. Special Handling Instructions and Additional Information

NON-HAZARDOUS MANIFEST

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/09/14 TIME: 07:35

FULL WEIGHT: 81200 Remarks if needed: _____

EMPTY WT: 36760 _____

NET WEIGHT: 44560 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: _____ Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62544

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking
Ticket Date	07/09/2014	Vehicle#	LC624
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Route		Check#	
Hauling Ticket#		Billing#	0000001
Destination		Grid	
PO#			

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 08:36:41	Inbound	B Bode		Gross	81220
Out	07/09/2014 09:08:14	outbound	B Bode		Tare	36500
					Net	44720
					Tons	22.

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origi
1	ContSoilPet-Tons-Cont. S	100	22.36	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Shepherd

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
	NA	Number	1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA 71414-76 B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
CASIAS TRUCKING	NA	
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
Transporter 2 Company Name	US EPA ID Number	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID 013230 H. State Facility Phone 505-892-2055
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	WASTE	Wt. / Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bole		7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

IN 7:00 OUT 7:55

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/09/14 TIME: 07:35

FULL WEIGHT: 81200 Remarks if needed: _____

EMPTY WT: 36760 _____

NET WEIGHT: 44560 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: _____ Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
	NA		1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA 71414-76
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403
CASIAS TRUCKING	NA	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4430		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
	Cell / Level Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.W. SAWYER JR		07	09	21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		7	9	21

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS SOIL FARM N: 34° 43.413' W: 107° 2.153' LPV: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		7	9	21

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

IN 7:00 OUT 7:55

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62544

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 08:36:41	Inbound	B Bode		Gross	81220
Out	07/09/2014 09:08:14	outbound	B Bode		Tare	36500
					Net	44720
					Tons	22.

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origi
1	ContSoilPet-Tons-Cont. S	100	22.36	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Shepherd

403WM

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 7-9-14 TIME: 9:25

FULL WEIGHT: 76380 Remarks if needed: _____

EMPTY WT: 32540 _____

NET WEIGHT: 43840 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 62551

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	07/09/2014 10:19:36	Inbound	B Bode
Out	07/09/2014 11:05:33	outbound	B Bode

Inbound

Gross	76420 lb
Tare	32420 lb
Net	44000 lb
Tons	22.00

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	22.00	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-100
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt. / Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Dale Crosby		7	9	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bush		7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 7-9-14 TIME: 9:25

FULL WEIGHT: 76380 Remarks if needed: _____

EMPTY WT: 32540 _____

NET WEIGHT: 43840 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck #530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 82551

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	07/09/2014 10:19:36	Inbound	B Bode		Gross	76420 lb
Out	07/09/2014 11:05:33	outbound	B Bode		Tare	32420 lb
					Net	44000 lb
					Tons	22.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.00	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 71414-100
B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
	Cell: Level: Grid:

15. Special Handling Instructions and Additional Information

Purchase Order #   EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	7	9	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N 34°43.413' W 107°2.153' LEV 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode	[illegible]	7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/09/14 TIME: 10:40

FULL WEIGHT: 75360 Remarks if needed: _____

EMPTY WT: 36500 _____

NET WEIGHT: 38860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 62561

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 11:58:30	Inbound	B Bode		Gross	75220 lb
Out	07/09/2014 12:29:24	outbound	dbaca		Tare	36380 lb
					Net	38840 lb
					Tons	19.42

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.42	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Shepherd

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing):

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 71414-74

B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID: 0101403 D. Transporter's Phone: 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID: F. Transporter's Phone:
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	**10. US EPA ID Number** NA	G. State Facility ID: 013230 H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #   EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Crossan	[signature]	7	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	7	[illegible]	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N 34° 43. 213 W 107° 2.[illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode	[signature]	7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

#624

JW 9/08

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 07/09/14 TIME: 10:40

FULL WEIGHT: 75360 Remarks if needed: _____

EMPTY WT: 36500 _____

NET WEIGHT: 38860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Truck # 624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484		WMNA 71414-74 B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403
CASIAS TRUCKING	NA	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	30		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Craigen	C. Craigen	7	7	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Arthur Stahl Jr.		7	9	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N 34° 43, 413 W107° 2, 153 elev 5430

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Beale		7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Tons 604

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62561

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 11:58:30	Inbound	B Bode		Gross	75220 lb
Out	07/09/2014 12:29:24	outbound	dbaca		Tare	36380 lb
					Net	38840 lb
					Tons	19.42

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.42	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard Hazelwood

403WM

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 7-9-14 TIME: 10:45

FULL WEIGHT: 80420 Remarks if needed: _____

EMPTY WT: 35140 _____

NET WEIGHT: 45280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: # 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: C. Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62558

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	07/09/2014 11:46:17	Inbound	B Bode		Gross	79300 lb
Out	07/09/2014 12:22:18	outbound	dbaca		Tare	34980 lb
					Net	44320 lb
					Tons	22.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.16	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA 71414-73
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	7		

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bo[illegible]	[illegible]	7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 7-9-14 TIME: 10:45

FULL WEIGHT: 80420 Remarks if needed: _____

EMPTY WT: 35140 _____

NET WEIGHT: 45280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: # 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: C Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 62558

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 07/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator			
In	07/09/2014 11:46:17	Inbound	B Bode	Inbound	Gross	79300 lb
Out	07/09/2014 12:22:18	outbound	dbaca		Tare	34980 lb
					Net	44320 lb
					Tons	22.16

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	22.16	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
	NA		1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484		WMNA 71414-73 B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
CASIAS TRUCKING	NA	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID 013230 H. State Facility Phone 505-892-2055
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		7		

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS Cell SOIL FARM N: 34°43.413' W: 107°02.153' Elev: 5420

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bole		7	9	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 07:55

FULL WEIGHT: 71 320 lbs Remarks if needed: _____

EMPTY WT: 32960 lbs _____

NET WEIGHT: 38,360 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 434613 530 Rhino

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63341

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/11/2014 09:01:53	Inbound	B Bode		Gross	71160 lb
Out	08/11/2014 09:40:21	outbound	B Bode		Tare	32920 lb
					Net	38240 lb
					Tons	19.12

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	19.12	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature Gustavo Espinoza

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Cell-SOILFARM N:34°43.413'W:107°02.153' Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-81
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	38.28	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Soil Soil, IRP N 34 43, 103 W 107 02, 153 ERW

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

530

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bolt	[signature]	8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

(618)

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 08:10

FULL WEIGHT: 68620 lbs Remarks if needed: _____

EMPTY WT: 34340 lbs _____

NET WEIGHT: 34,280 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: LC 618 Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63344

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 618
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/11/2014 09:27:00	Inbound	B Bode		Gross	68420 lb
Out	08/11/2014 10:34:31	outbound	B Bode		Tare	34340 lb
					Net	34080 lb
					Tons	17.04

Comments

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	17.04	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOILFARM N:34°43.413'W:107°2.153'Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-01
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	3480	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location:
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. V. [illegible]	[signature]	08	14	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	Oct	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N: 34° 43.413 W: 107° 2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
T. Brian Sole	[signature]	8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 8:25

FULL WEIGHT: 68920 Remarks if needed: _____

EMPTY WT: 33760 lbs _____

NET WEIGHT: 35,160 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: JC 522 Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Ritter Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63346

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/11/2014 09:32:10	Inbound	B Bode		Gross	68100 lb
Out	08/11/2014 10:37:25	outbound	B Bode		Tare	34340 lb
					Net	33760 lb
					Tons	16.88

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	16.88	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal Cell-PCS N:34°43.413' W:107°2.153' Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 11	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-02
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	380	Lb	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. WISTROM		08	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal Cell-DCS N 34° 43.413' W 107° 02.153' Elev: 5,780
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bock		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 11:20

FULL WEIGHT: 81520 Remarks if needed: _____

EMPTY WT: 32920 _____

NET WEIGHT: 48,600 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530 Rhino

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

530

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63363

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/11/2014 12:10:54	Inbound	B Bode
Out	08/11/2014 12:48:52	outbound	dbaca

Inbound

Gross	81260 lb
Tare	32880 lb
Net	48380 lb
Tons	24.19

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	24.19	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N:34°43.413'W:107°2.353' Elev: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-83
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	0520	Lb	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.W. Ethier		12	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		12	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL APP'D N 34° 43.113' W 106° 2.353' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Bruce Peck		12	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 12:00 pm

FULL WEIGHT: 73820 Remarks if needed: _____

EMPTY WT: 34340 _____

NET WEIGHT: 39,480 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Casias 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bilderz Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Ph: 505-917-6232

Original
Ticket# 63368

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/11/2014 13:19:25	Inbound	B Bode
Out	08/11/2014 14:17:10	outbound	B Bode

Inbound

Gross	73400 lb
Tare	34800 lb
Net	38600 lb
Tons	19.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.30	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

A Garcia

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N:34°43.413 W:101°02.153' Elev: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode	[signature]	8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 71414-03
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403
CASIAS TRUCKING	NA	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID 013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	34480	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
J. WHITMORE		08	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month 08	Day 11	Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N: 34°43.93 W107°02.153' for 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 12:15 pm

FULL WEIGHT: 78040 Remarks if needed: _____

EMPTY WT: 34340 _____

NET WEIGHT: 43,700 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Casias 618

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bottger Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63370

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 618
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/11/2014 13:22:02	Inbound	B Bode		Gross	77660 lb
Out	08/11/2014 14:14:22	Outbound	B Bode		Tare	34240 lb
					Net	43420 lb
					Tons	21.71

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.71	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-04
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	42.00	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. TAVIS		08	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°48.413' W 107°2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

530

SCALE WEIGHT TICKET

DATE: 08/11/14 TIME: 14:20

FULL WEIGHT: 75,780 Remarks if needed: _____

EMPTY WT: 32,880 _____

NET WEIGHT: 42,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63377

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/11/2014 15:16:13	Inbound	B Bode
Out	08/11/2014 15:54:17	outbound	B Bode

Inbound

Gross	75560 lb
Tare	32760 lb
Net	42800 lb
Tons	21.40

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	9	100	21.40	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Espaza

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Land Farm N;34°43.413' W;107°02.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA 71414-84
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	42900	lb	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
	Cell / Level
	Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Land Farm N 34°43.413 W 107°[illegible].153' Elev 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.12.14 TIME: 07:45

FULL WEIGHT: 72,180 Remarks if needed: _____

EMPTY WT: 32,720 _____

NET WEIGHT: 39,460 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

530

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63388

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/12/2014 08:38:28	Inbound	B Bode		Gross	72020 lb
Out	08/12/2014 09:16:07	outbound	B Bode		Tare	33180 lb
					Net	38840 lb
					Tons	19.42

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.42	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal Cell PCS N:34°43.413' W:107°2.153' Elev: 5480				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 12	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

520

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	
	NA	Number	1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-87
4. Generator's Phone 505-853-3484		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number		
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID	0101403
		D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number		
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID	State Transporter ID
		F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number		
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	39160	W/V	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
J. W. Stowe		08	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
		08	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal Cell PCS N 34° 43.413' W 106° 52.153' Elev 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bell		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.12.14 TIME: 08:00

FULL WEIGHT: 68240 Remarks if needed: _____

EMPTY WT: 35220 _____

NET WEIGHT: 33,020 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63389

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/12/2014 08:53:25	Inbound	B Bode		Gross	68000 lb
Out	08/12/2014 09:35:24	outbound	B Bode		Tare	34940 lb
					Net	33060 lb
					Tons	16.53

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	16.53 Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-SOIL FARM N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 71414-05
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	33.20	W	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		08	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Anna Garcia		08	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DES SOIL FARM N. 34°-13'-43" W 107°-32'-53" ELEV 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Byron Bell		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/12/14 TIME: 10:40

FULL WEIGHT: 70,800 Remarks if needed: _____

EMPTY WT: 33,180 _____

NET WEIGHT: 37,620 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne E. Fretz Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 63401

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/12/2014 11:32:13	Inbound	B Bode		Gross	70580 lb
Out	08/12/2014 12:10:48	outbound	B Bode		Tare	32660 lb
					Net	37920 lb
					Tons	18.96

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.96	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-LANDFARM N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.: NA	Manifest Doc No.: Number	2. Page 1 of: 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 71414-85

B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID: 0101403 D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID: 013230 H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	37.20	T	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order #: Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	06	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	06	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS LANDFARM N 34°43.073' W 107°9.153' ELV 3480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	3	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.12.14 TIME: 12:00 pm

FULL WEIGHT: 73160 Remarks if needed: _____

EMPTY WT: 34940 _____

NET WEIGHT: 38,220 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bowker Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63400

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/12/2014 12:58:55	Inbound	B Bode		Gross	72860 lb
Out	08/12/2014 13:57:06	outbound	B Bode		Tare	34340 lb
					Net	38520 lb
					Tons	19.26

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.26	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS- SOILFARM N:34°43.413 W:107°2.153' ELEV 5480' I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 71414-06 B. State Generator's ID NA
4. Generator's Phone 505-853-3484		
5. Transporter 1 Company Name CASIAS TRUCKING	6. US EPA ID Number NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	[illegible]	[illegible]	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
	Cell / Level / Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	08	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	08	13	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal [illegible]

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.12.14 TIME: 13:55

FULL WEIGHT: 75,520 Remarks if needed: _____

EMPTY WT: 32,660 _____

NET WEIGHT: 42,860 lbs _____

Type of conveyance weighed: 530

Vehicle license plate if needed: _____

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63417

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/12/2014 14:47:34	Inbound	B Bode
Out	09/12/2014 15:30:49	outbound	B Bode

Inbound

Gross	75300 lb
Tare	32400 lb
Net	42900 lb
Tons	21.45

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	21.45	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS SOILFARM N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT — NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 71414-86
B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	42800	Y	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell ____ Level ____
Grid ____

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	08	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	08	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL 18 N 34°43.413' W 107°2.153' ELEV. 5486
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.13.14 TIME: 07:45

FULL WEIGHT: 77,360 Remarks if needed: _____

EMPTY WT: 33,280 lbs _____

NET WEIGHT: 44,080 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittick Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

530

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63430

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/13/2014 08:40:58	Inbound	B Bode		Gross	77180 lb
Out	08/13/2014 09:17:41	outbound	B Bode		Tare	34540 lb
					Net	42640 lb
					Tons	21.32

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	5	100	21.32	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Espinoza

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480' I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-89
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
Transporter 2 Company Name	US EPA ID Number	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID 013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	40CY	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.W. Turner		08	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
		08	12	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°43.413' W 107°2.153' elev 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Kolb		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 0900

FULL WEIGHT: 78840 Remarks if needed: _____

EMPTY WT: 34300 _____

NET WEIGHT: 44540 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Brooks Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

522

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63438

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/13/2014 09:52:58	Inbound	B Bode		Gross	77960 lb
Out	08/13/2014 10:45:20	outbound	B Bode		Tare	36900 lb
					Net	41060 lb
					Tons	20.53

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	20.53	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials.

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153 Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this ~~manifest~~.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-08
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name: Transporter 2 Company Name	8. US EPA ID Number: US EPA ID Number	E. State Transporter's ID: State Transporter ID	
		F. Transporter's Phone: Transporter 2 Phone	
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4[illegible]0	[illegible]	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	13	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS Landfarm N 34°43.413' W 107°2.153
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Elev. 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bob	[signature]	8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 10:45

FULL WEIGHT: 80,560 Remarks if needed: _____

EMPTY WT: 34,540 _____

NET WEIGHT: 46,020 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530 Rhino

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Stiver Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63449

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/13/2014 11:45:54	Inbound	B Bode		Gross	80280 lb
Out	08/13/2014 12:21:45	outbound	B Bode		Tare	33500 lb
					Net	46780 lb
					Tons	23.39

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	G	100	23.39	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413'W:107°2.153'Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-88
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	46.20	Wt.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. Smith		12	12	10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		12	12	10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°43.413' W107° 2.153' EL 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		12	13	10

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

619

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 1200

FULL WEIGHT: 78 280 Remarks if needed: _____

EMPTY WT: 34,680 _____

NET WEIGHT: 43,600 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 619 Castas

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

LC 619

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63457

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 619
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/13/2014 13:18:02	Inbound	B Bode		Gross	77400 lb
Out	08/13/2014 13:54:09	outbound	B Bode		Tare	34780 lb
					Net	42620 lb
					Tons	21.31

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.31	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	13	14

NCS-N:34°43.413'W:107°2.153' Elev.:5480

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WM WASTE MANAGEMENT

6 19

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing):

4. Generator's Phone 505-853-3484

A. Manifest Number: **WMNA** 71414-12

B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID: 0101403 D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID: F. Transporter's Phone:

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID: 013230 H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	43.60	Yd	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	08	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	08	13	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS. N. 34°43.913' W 1072.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 12:15

FULL WEIGHT: 70,320 Remarks if needed: _____

EMPTY WT: 35,420 _____

NET WEIGHT: 34,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Casias 624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63460

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking
Ticket Date	08/13/2014	Vehicle#	LC624
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Route		Check#	
Hauling Ticket#		Billing#	0000001
Destination		Grid	
PO#			

Volume

	Time	Scale	Operator	Inbound		
In	08/13/2014 13:23:10	outbound	B Bode		Gross	70160 lb
Out	08/13/2014 14:34:47	outbound	B Bode		Tare	36920 lb
					Net	33240 lb
					Tons	16.62

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	16.62	Tons			SANJUAN

1.5 Std/LBY

Total Tax
Total Ticket

Driver's Signature
Tyme
Richard Bode

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-SOIL-FARM-N:34943.404' W:107°2.279' Elev:5451 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

624

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-07
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	5	Yds	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	Cole Cosgrove	5	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		5	13	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS-COL FARM - N 34°43.404' W 107°2.279' Elev. 5451
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bonlo		5	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: NOON 12:20

FULL WEIGHT: 83,640 Remarks if needed: _____

EMPTY WT: 35580 _____

NET WEIGHT: 48,060 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1620 Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63458

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/13/2014 13:19:39	outbound	B Bode
Out	08/13/2014 14:27:01	outbound	B Bode

Inbound

Gross	83460 lb
Tare	35740 lb
Net	47720 lb
Tons	23.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.86	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS SOIL FARM-N:34°43.413'W:107°2.153 Elev-5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 13	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WAITING TO LOAD 1½ HOURS (10)

NON-HAZARDOUS MANIFEST

620

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: **WMNA** 71414-10
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	18.60	Wt	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Crossno		8	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		8	13	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM V 34°43.413' W 107°2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Leo		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WAITING TO LOAD 1½ HOURS (10)

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 1230

FULL WEIGHT: 62,440 Remarks if needed: _____

EMPTY WT: 36900 _____

NET WEIGHT: 25,540 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

522

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63459

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/13/2014 13:22:03	Inbound	B Bode
Out	08/13/2014 14:32:34	outbound	B Bode

Inbound

Gross	61960 lb
Tare	33260 lb
Net	28700 lb
Tons	14.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	G 100	14.35	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-CELL SOIL FARM N:34°43.413' W:107°2.153' Elev: 5480			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month	Day	Year
			8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

5227

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-09
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	25 50	W/V	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Colin Cosgrove		05	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
		05	13	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-CELL SOIL FARM N 34°43.413' W 107°2.153'

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Elev. 5280

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Foote		5	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/13/14 TIME: 13:50

FULL WEIGHT: 72,360 Remarks if needed: _____

EMPTY WT: 33500 _____

NET WEIGHT: 38,860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: [signature] Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63471

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/13/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/13/2014 14:44:42	Inbound	B Bode		Gross	72200 lb
Out	08/13/2014 15:25:06	outbound	B Bode		Tare	33220 lb
					Net	38980 lb
					Tons	19.49

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.49	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

Cristian Enriquez

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-LANDFARM N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.: NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 71414-92

B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL — WM Profile # 103057NM	1	DT	[illegible]		
b. — WM Profile #					
c. — WM Profile #					
d. — WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		8	13	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		8	13	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS LANDFARM N 34°43.413' W 107°2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		8	13	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08.14.14 TIME: 07:45

FULL WEIGHT: 74,390 Remarks if needed: _____

EMPTY WT: 33,160 _____

NET WEIGHT: 41,220 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63485

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/14/2014 08:41:18	Inbound	B Bode		Gross	74260 lb
Out	08/14/2014 09:21:12	outbound	B Bode		Tare	34700 lb
					Net	39560 lb
					Tons	19.78

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.78	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-LANDFARM N:34°43.413'W:107°2.153'Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-94
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	41220 Qty.	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	14	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	14	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: TCS LANDFARM N 34° 23.413' W107° 2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brandon [illegible]	[signature]	8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/14/14 TIME: 0755

FULL WEIGHT: 68,340 Remarks if needed: _____

EMPTY WT: 34,060 _____

NET WEIGHT: 34,280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BUTLER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63489

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/14/2014 08:51:48	Inbound	B Bode		Gross	66680 lb
Out	08/14/2014 09:38:37	outbound	B Bode		Tare	35260 lb
					Net	31420 lb
					Tons	15.71

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	15.71	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-LAND FARM N:34°43.413' W:107°2.153' Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month	Day	Year
			8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-16
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	3[illegible]	W/V	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. Evans		08	14	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	14	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-LAND FARM N 34° 43.413' W 107° 2.153' ELEV: 5150
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Sole		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/14/14 TIME: 10:40

FULL WEIGHT: 76,960 Remarks if needed: _____

EMPTY WT: 34,700 _____

NET WEIGHT: 42,260 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 53D

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63500

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/14/2014 11:34:42	Inbound	B Bode		Gross	76840 lb
Out	08/14/2014 12:21:38	outbound	dbaca		Tare	33500 lb
					Net	43340 lb
					Tons	21.67

Comments

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	21.67	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413 W:107°2.153 Elev: I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 14	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-93
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: DCS Landfarm N 34°43.413 W 107°2.153 Elev.
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/14/14 TIME: 11:10

FULL WEIGHT: 68,160 Remarks if needed: _____

EMPTY WT: ~~35,260~~ 35260 _____

NET WEIGHT: 32,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63502

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/14/2014 11:58:31	Inbound	B Bode		Gross	67980 lb
Out	08/14/2014 12:44:27	outbound	dbaca		Tare	34240 lb
					Net	33740 lb
					Tons	16.87

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	16.87	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Joshua Casias				

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Soil Farm N: 34° 43.413' W: 107° 2.153 ELEV: 5489
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-14
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt / Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		7	14	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/14/14 TIME: 13:45

FULL WEIGHT: 73,640 Remarks if needed: _____

EMPTY WT: 33,500 _____

NET WEIGHT: 40,140 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Tucker Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63517

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/14/2014 14:45:30	Inbound	B Bode		Gross	73440 lb
Out	08/14/2014 15:33:26	outbound	B Bode		Tare	33260 lb
					Net	40180 lb
					Tons	20.09

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	20.09	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal PCS Landfarm; N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 71414-95
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	B. State Generator's ID NA
4. Generator's Phone 505-853-3484		

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	40740	Y	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
Additional Description	Cell: Level: Grid:

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.U. [illegible]	[signature]	08	14	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
	[signature]	08	14	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°43.413' W 107°2.153' Elev 5450

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bod[illegible]	[signature]	8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/14/14 TIME: 14:15

FULL WEIGHT: 67,820 Remarks if needed: _____

EMPTY WT: 34240 _____

NET WEIGHT: 33,580 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

522

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63518

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/14/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/14/2014 15:14:41	Inbound	B Bode		Gross	67500 lb
Out	08/14/2014 15:59:00	outbound	B Bode		Tare	34820 lb
					Net	32680 lb
					Tons	16.34

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	16.34	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS LANDFARM N:34°43.413' W:107°2.153' Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

3172

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-11
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	35.00	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. LUIS RAMIREZ		08	14	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	14	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS LANDFARM N 34° 43.413' W107° 2.153' ELEV 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bowe		8	14	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 07:30

FULL WEIGHT: 78,780 Remarks if needed: _____

EMPTY WT: 37840 _____

NET WEIGHT: 40,940 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 617 Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Freshkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63525

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 08:25:23	Inbound	dbaca		Gross	78620 lb
Out	08/15/2014 09:08:55	outbound	dbaca		Tare	38080 lb
					Net	40540 lb
					Tons	20.27

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	20.27	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-5021 Farm N:34°43.413' W:107° 2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 71414-24

B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	40940	lbs.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn	[signature]	08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard J. Taroya	[signature]	8	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny [illegible]	[signature]	[illegible]	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 07:30

FULL WEIGHT: 78480 Remarks if needed: _____

EMPTY WT: 35700 _____

NET WEIGHT: 42780 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623 Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63528

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 08:35:31	outbound	dbaca		Gross	78340 lb
Out	08/15/2014 09:11:34	outbound	dbaca		Tare	38040 lb
					Net	40300 lb
					Tons	20.15

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	20.15	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Soil FARM N:34° 43.413' W:107° 2.153' ELEV:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

u23

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: WMNA 71414-17
B. State Generator's ID: NA

5. Transporter 1 Company Name	**6. US EPA ID Number**	
CASIAS TRUCKING	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL **WM Profile #** 103057NM	1	DT	79419	lbs	Comments
b. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn	[signature]	09	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez	[signature]	09	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Soil [illegible] N 34° 13.413' W 107° [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny [illegible]	[signature]	9	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 07:45

FULL WEIGHT: 74,180 Remarks if needed: _____

EMPTY WT: 33,240 _____

NET WEIGHT: 40,940 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530 Rhino

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63530

Customer Name RHINDENV RHIND ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHIND ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/15/2014 08:41:08	Inbound	dbaca		Gross	73960 lb
Out	08/15/2014 09:14:30	outbound	dbaca		Tare	33340 lb
					Net	40620 lb
					Tons	20.31

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	20.31 Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS- SOIL FARM N: 34°43.413' W: 107°2.153' ELEV: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-96
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	74(20	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special handling instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
CHUCK TRISCHKOPF		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
			15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
				14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 07:50

FULL WEIGHT: 73,500 Remarks if needed: _____

EMPTY WT: 35,480 _____

NET WEIGHT: 38,020 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: Lelle Casias

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63529

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 616
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 08:39:37	outbound	dbaca		Gross	73360 lb
Out	08/15/2014 09:13:04	outbound	dbaca		Tare	39200 lb
					Net	34160 lb
					Tons	17.08

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	17.08	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-5021 FARM N: 34° 43.413' W: 107° 2.153' ELEV: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-23
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	73600	lbs	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Glenn Fleming		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Dennis Martinez		8	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS: Soil Farm N 34° 48.413' W 107° 2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Sam		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 0800

FULL WEIGHT: 72,900 Remarks if needed: _____

EMPTY WT: 34740 _____

NET WEIGHT: 38,160 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522 Casas

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Fraschkoery Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 63531

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/15/2014 08:51:17	Inbound	dbaca		Gross	72580 lb
Out	08/15/2014 09:36:37	outbound	dbaca		Tare	35260 lb
					Net	37420 lb
					Tons	18.71

Comments

Product	LD#	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S	100	18.71	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-22
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	72100	WT	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frichkorn		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 10:45

FULL WEIGHT: 82,140 Remarks if needed: _____

EMPTY WT: 38,040 _____

NET WEIGHT: 44,100 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Freschkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Ph: 505-917-6232

Original
Ticket# 63546

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking	
Ticket Date	08/15/2014	Vehicle#	CC 623	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Route		Check#		
Hauling Ticket#		Billing#	0000001	
Destination		Grid		
PO#				

	Time	Scale	Operator	Inbound		
In	08/15/2014 11:35:55	outbound	dbaca		Gross	81980 lb
Out	08/15/2014 12:11:07	outbound	dbaca		Tare	38660 lb
					Net	43320 lb
					Tons	21.66

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.66	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS - [illegible] N 34° [illegible] W 107° [illegible]				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Danny Baca	Signature	Month 8	Day 15	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 623

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: WMNA 71414-31
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty. 23140	Wt./Vol. TONS	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn		09	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Soil Farm N: 34° 44' 15" W: 107° 2' 15.1" Elevation 5160
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Jimmy Baca		5	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 10:50

FULL WEIGHT: 77,120 Remarks if needed: _____

EMPTY WT: 38,080 _____

NET WEIGHT: 39,040 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 617

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Feischkorn Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63547

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 11:38:13	outbound	dbaca		Gross	77020 lb
Out	08/15/2014 12:09:26	outbound	dbaca		Tare	38700 lb
					Net	38320 lb
					Tons	19.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.16	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-SOIL FARM N:34°41.3' W:107° 2.153' ELEV:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

617

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-30
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	T1120	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt/Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt/Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Tas		8	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS soil from N34° 41' 0.10" 2.15" (LAT. 180
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Andy Gaez		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 10:55

FULL WEIGHT: 75,560 Remarks if needed: _____
39,200

EMPTY WT: ~~34,160 lbs~~ 34,160 lbs

NET WEIGHT: ~~41,400 lbs~~ 36,360 lbs

Type of conveyance weighed: _____

Vehicle license plate if needed: 1616

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Fleischkorn Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63549

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# EC 616
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/15/2014 11:57:26	outbound	dbaca
Out	08/15/2014 12:50:51	outbound	dbaca

Inbound

Gross	75400 lb
Tare	35480 lb
Net	39920 lb
Tons	19.96

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.96	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS- 5021 FAcm N: 34° 413' W: 107° 2.153' ELEV: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-29
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	75560	lbs	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 11:00

FULL WEIGHT: 69,120 Remarks if needed: _____

EMPTY WT: 35,260 _____

NET WEIGHT: 33,860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Chris Frischkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63550

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/15/2014 11:58:41	outbound	dbaca
Out	08/15/2014 12:49:12	outbound	dbaca

Inbound

Gross	69000 lb
Tare	33020 lb
Net	35980 lb
Tons	17.99

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.99	Tons				SANJURN

Total Tax
Total Ticket

Driver's Signature

03WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
			8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1
3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	Generator's Site Address (If different than mailing): City, State, Zip Code	A. Manifest Number WMNA 71414-28	B. State Generator's ID NA
4. Generator's Phone 505-853-3484			
5. Transporter 1 Company Name CASIAS TRUCKING	6. US EPA ID Number NA	C. State Transporter's ID 0101403	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name Transporter 2 Company Name	8. US EPA ID Number US EPA ID Number	E. State Transporter's ID State Transporter ID	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230	H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL — WM Profile # 103057NM	1	DT	61420	lbs	Comments
b. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn	[signature]	08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-5021 Farm N, [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 12:30

FULL WEIGHT: 72,980 Remarks if needed: _____

EMPTY WT: 33,340 _____

NET WEIGHT: 39,640 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63554

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/15/2014 13:24:37	outbound	dbaca		Gross	72840 lb
Out	08/15/2014 14:02:31	outbound	dbaca		Tare	33180 lb
					Net	39660 lb
					Tons	19.83

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.83	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Enriquez

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS- SOZI FARM N: 34°413' W: 107° 2.153' ELEV: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

630

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-97
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	7.21	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Descriptions

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Friedman		05	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		05	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca			15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 13:30

FULL WEIGHT: 74,420 Remarks if needed: _____

EMPTY WT: 38,700 _____

NET WEIGHT: 35720 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 617

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63559

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 14:21:43	outbound	dbaca		Gross	74220 lb
Out	08/15/2014 15:02:11	outbound	dbaca		Tare	37420 lb
					Net	36800 lb
					Tons	18.40

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.40	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-5021 FARM N:34°41.3' W:107°2.153' ELEV: 5480' I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.: NA	Manifest Doc No.: Number	2. Page 1 of: 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA 71414-27
4. Generator's Phone 505-853-3484		B. State Generator's ID: NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID: 0101403 D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID: 013230 H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	N 18672 T 74420	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
Additional Description	Cell: Level: Grid:

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cheryl Frischkorn	[signature]	08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS – [illegible] N 34° [illegible]" W 107° [illegible]" Elev. [illegible]

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca	[signature]	8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/15/14 TIME: 13:35

FULL WEIGHT: 68320 Remarks if needed: _____

EMPTY WT: 38,660 _____

NET WEIGHT: 29,660 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Frischkorn Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63560

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/15/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/15/2014 14:23:17	outbound	dbaca		Gross	68180 lb
Out	08/15/2014 15:00:55	outbound	dbaca		Tare	35420 lb
					Net	32760 lb
					Tons	16.38

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	16.38	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-5021 FARM N:34° 413' W:107° 2.153' E/W:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name DANNY BACA	Signature	Month 8	Day 15	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-26
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		08	12	19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
			15	19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
			5	19

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 07:50

FULL WEIGHT: 76340 Remarks if needed: _____

EMPTY WT: 38,080 _____

NET WEIGHT: 38,260 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 617

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63577

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 08:43:34	outbound	B Bode		Gross	76180 lb
Out	08/18/2014 09:16:57	outbound	B Bode		Tare	38120 lb
					Net	38060 lb
					Tons	19.03

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.03	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.: NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 71414-34

B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	[illegible]	[illegible]	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Land farm N 34°43.273' W 107°2.396' Elev: 5489
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rode	[signature]	8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 07:58

FULL WEIGHT: 64180 Remarks if needed: _____

EMPTY WT: 33,600 _____

NET WEIGHT: 30580 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 522

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63578

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JCS22
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/18/2014 08:46:59	outbound	B Bode		Gross	64040 lb
Out	08/18/2014 09:24: 1	outbound	B Bode		Tare	34260 lb
					Net	29780 lb
					Tons	14.89

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	14.89	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

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NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-35
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	36520	W/V	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. WITTWER		04	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lawrence Casias		04	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N:34°43.413' W:107°2.153' Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bob		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 0800

FULL WEIGHT: 63340 Remarks if needed: _____

EMPTY WT: 35,680 _____

NET WEIGHT: 27660 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63580

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 08:51:05	outbound	B Bode		Gross	63220 lb
Out	08/18/2014 09:50:02	outbound	B Bode		Tare	35940 lb
					Net	27280 lb
					Tons	13.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	13.64	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-20
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
Transporter 2 Company Name	US EPA ID Number	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID 013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	27000	Wt	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	16	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	16	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 08:02

FULL WEIGHT: 67460 Remarks if needed: _____

EMPTY WT: 35,340 _____

NET WEIGHT: 32120 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITTNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63581

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

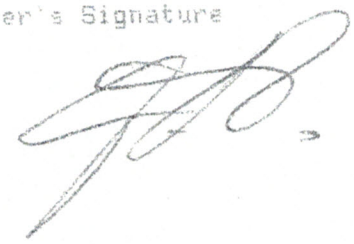
	Time	Scale	Operator	Inbound		
In	08/18/2014 08:55:01	outbound	B Bode		Gross	67340 lb
Out	08/18/2014 09:52:13	outbound	B Bode		Tare	36440 lb
					Net	30900 lb
					Tons	15.45

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	15.45	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature



403WM

NON-HAZARDOUS MANIFEST

623

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 71414-18
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	52120	Tons	
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
LUCITNITE		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Zeke Hernandez		08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 08:06

FULL WEIGHT: 67340 Remarks if needed: _____

EMPTY WT: 34260 _____

NET WEIGHT: 33080 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 6624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE ISTNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63582

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 08:57:20	outbound	B Bode		Gross	67220 lb
Out	08/18/2014 09:55:01	outbound	B Bode		Tare	34300 lb
					Net	32920 lb
					Tons	16.46

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	16.46	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard S

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

624

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of	
	NA	1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484		WMNA	71414-21
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	33074	W/b	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.V. Tafoya		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Antonio Sandoval		08	18	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS land farm N: 34°43.413' W: 107°2.153' Elev: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bold		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 08:13

FULL WEIGHT: 71,140 Remarks if needed: _____

EMPTY WT: 33860 _____

NET WEIGHT: 37,280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63583

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/18/2014 09:09:08	Inbound	B Bode
Out	08/18/2014 09:47:51	outbound	B Bode

Inbound

Gross	70980 lb
Tare	33600 lb
Net	37380 lb
Tons	18.69

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.69	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature Cristian Espinoza

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N;34°43.413' W;107°2.153' Elev;5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

530

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484		WMNA	71414-98
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	37280	W	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. WISTUTE		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N:34°43.413' W:107°2.153' Elev:5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 10:45

FULL WEIGHT: 080600 Remarks if needed: _____

EMPTY WT: 38,120 _____

NET WEIGHT: 42,480 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 617

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63595

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 11:39:45	outbound	B Bode		Gross	80380 lb
Out	08/18/2014 12:13:21	outbound	B Bode		Tare	38100 lb
					Net	42280 lb
					Tons	21.14

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.14	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOILFARM N:34°43.413'W:107°2.153'Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

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NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA	71414-37
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	42480	T	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. BRIDGE		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard D. Tyler		08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOUTHARM N: 34°43.413' W: 107°2.153' Elev: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 16:52

FULL WEIGHT: 71,900 Remarks if needed: _____

EMPTY WT: 34,260 _____

NET WEIGHT: 37,640 _____

Type of conveyance weighed: 522

Vehide license plate if needed: _____

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63595

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/18/2014 11:47:50	outbound	B Bode
Out	08/18/2014 12:16:01	outbound	B Bode
			* Manual Weight

Inbound

Gross	71720 lb*
Tare	34020 lb
Net	37700 lb
Tons	18.85

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.85	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOILFARM N:34°43.413' W:107°2.153' - Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State Zip Code

A. Manifest Number: **WMNA** 71414-36
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	27	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. DeLeon		10	18	17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Lawrence Casias		10	18	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS SILFARM N 34°42.413' W 107°2.153' - Elev: 5430'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bade		10	18	17

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 11:12

FULL WEIGHT: 72,260 Remarks if needed: _____

EMPTY WT: 36,440 _____

NET WEIGHT: 35,820 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63600

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 12:03:53	outbound	B Bode		Gross	72080 lb
Out	08/18/2014 12:35:21	outbound	B Bode		Tare	35100 lb
					Net	36980 lb
					Tons	18.49

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.49	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-SOILFARM N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 18	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

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NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-33
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	25 CY	WT/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. WILLIAMS		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]		08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N 34° 43' 41.3" W 107° 2' 15.3" ELEV. 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Cole		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: @ 11:15

FULL WEIGHT: 73,240 Remarks if needed: _____

EMPTY WT: 35,940 _____

NET WEIGHT: 37,300 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63601

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 12:05:50	outbound	B Bode		Gross	72880 lb
Out	08/18/2014 12:39:57	outbound	B Bode		Tare	35620 lb
					Net	37260 lb
					Tons	18.63

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	18.63	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-32
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	37300	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.W. Towle		08	12	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Darrell Casias		08	12	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS landfarm N 34°43.413' W 107°2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 11:20

FULL WEIGHT: 67,400 Remarks if needed: _____

EMPTY WT: 33,600 _____

NET WEIGHT: 33,800 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 624 FJJ 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYDE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63604

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/18/2014 12:15:40	Inbound	B Bode
Out	08/18/2014 12:50:38	outbound	dbaca

Inbound

Gross	67200 lb
Tare	33240 lb
Net	33960 lb
Tons	16.98

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	16.98	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature Cristina Esparza

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev. 5480				
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-90
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty. 33 Cy	Wt./Vol. T	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. Brown		08	19	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS land farm N: 34° 43.413' W: 107° 2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Rev. 5-1-80

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bc		8	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08-18-14 TIME: 11:28

FULL WEIGHT: 68,840 Remarks if needed: _____

EMPTY WT: 34,300 _____

NET WEIGHT: 34,540 _____

Type of conveyance weighed: Loza

Vehicle license plate if needed: _____

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63603

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 12:11:57	outbound	B Bode		Gross	68680 lb
Out	08/18/2014 12:42:21	outbound	B Bode		Tare	33920 lb
					Net	34760 lb
					Tons	17.38

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	17.38	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard S

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS Landfarm N:34°43.413' W:107°2.153' Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-25
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	3.5 10	Wt/Vol. LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descripcion

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. WISTHOFF		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Matthew Shoup Inc		08	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal R.S. Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Holt		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 13:40

FULL WEIGHT: 74,860 Remarks if needed: _____

EMPTY WT: 38,100 _____

NET WEIGHT: 36,760 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 617

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63618

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 14:33:07	outbound	B Bode		Gross	74640 lb
Out	08/18/2014 15:10:04	outbound	B Bode		Tare	37860 lb
					Net	36780 lb
					Tons	18.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	5	100	18.39	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 18	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: WMNA 71414-42
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	5400	WT	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Casias	[signature]	08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: RCS-landfarm N 34°43.43' W 107°2.153' 10/14/30
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bale	[signature]	8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 13:45

64 000 #

FULL WEIGHT: ~~63,980~~ Remarks if needed: _____

EMPTY WT: 34,020 _____

NET WEIGHT: 29,980 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Kroeker Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63619

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/18/2014 14:34:29	outbound	B Bode
Out	08/18/2014 15:11:43	outbound	B Bode

Inbound

Gross	63820 lb
Tare	34360 lb
Net	29460 lb
Tons	14.73

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	14.73	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS Cell = N 34°43.413' W 107°2.153' Elev. 5480' I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month 8	Day 18	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	Generator's Site Address (If different than mailing): City, State, Zip Code	A. Manifest Number WMNA 71414-41 B. State Generator's ID NA
5. Transporter 1 Company Name: CASIAS TRUCKING	6. US EPA ID Number: NA	C. State Transporter's ID: 0101403 D. Transporter's Phone: 505-991-2000
7. Transporter 2 Company Name: Transporter 2 Company Name	8. US EPA ID Number: US EPA ID Number	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address: VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number: NA	G. State Facility ID: 013230 H. State Facility Phone: 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	29	T	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L.W. Tomlin		08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Casias Trucking		08	15	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS Cell = N 34° 43.413' W 107° 2.153' Elev. 5480'

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rule		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 13:47

FULL WEIGHT: 71,500 Remarks if needed: _____

EMPTY WT: 35,100 _____

NET WEIGHT: 36,400 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63620

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 14:38:27	outbound	B Bode		Gross	73320 lb
Out	08/18/2014 15:13:46	outbound	B Bode		Tare	35020 lb
					Net	38300 lb
					Tons	19.15

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.15	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 023

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Manifest	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-40
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	36 YD	LBS	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PDS Landfill N 34°43.413' W 106°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian [illegible]	[signature]	8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 13:52

FULL WEIGHT: 74,280 Remarks if needed: _____

EMPTY WT: 35,620 _____

NET WEIGHT: 38,660 _____

Type of conveyance weighed: 615

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63625

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 14:59:12	outbound	B Bode		Gross	74060 lb
Out	08/18/2014 15:39:35	outbound	B Bode		Tare	35380 lb
					Net	38680 lb
					Tons	19.34

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.34	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS SOIL FARM N:34°43.43' W:107°2.153' Elev: 5480' I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 18	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

115

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 **4. Generator's Phone** 505-853-3484	City, State, Zip Code	WMNA	71414-39
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL **WM Profile #** 103057NM	1	DT	38.40	LB	Comments
b. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	15	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	15	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N: 34°43.43' W: 107°2.153' Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rule	[signature]	8	15	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 14:01

FULL WEIGHT: 71,760 Remarks if needed: _____

EMPTY WT: 33,240 _____

NET WEIGHT: 38,520 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63624

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/18/2014 14:57:46	Inbound	B Bode		Gross	71500 lb
Out	08/18/2014 15:37:18	outbound	B Bode		Tare	33200 lb
					Net	38300 lb
					Tons	19.15

Comments

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.15	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Egurza

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-N:34°43.413' W:107°2.153' Elev:5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	Generator's Site Address (If different than mailing): City, State, Zip Code	A. Manifest Number WMNA 71414-91 B. State Generator's ID NA
5. Transporter 1 Company Name RHINO ENVIRONMENTAL	6. US EPA ID Number NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name Transporter 2 Company Name	8. US EPA ID Number US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	38320	Lb	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L W Emmer	[signature]	10	16	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	10	16	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS N 34°43.413 W 107°2.153' Elev 5430
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Pile	[signature]	8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/18/14 TIME: 14:11

FULL WEIGHT: 72,600 Remarks if needed: _____

EMPTY WT: 33,920 _____

NET WEIGHT: 38,680 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE FITNEY Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63626

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/18/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/18/2014 15:03:00	outbound	B Bode		Gross	72420 lb
Out	08/18/2014 15:41:43	outbound	B Bode		Tare	34000 lb
					Net	38420 lb
					Tons	19.21

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.21	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 624

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: WMNA 71414-19
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	32.60	T	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. Elliott		08	18	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	18	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N:34°43.413' W:107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Tebo		8	18	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 7:45

FULL WEIGHT: 76,420 Remarks if needed: _____

EMPTY WT: 37,760 _____

NET WEIGHT: 38660 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 617

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1500 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63637

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 617
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/19/2014 08:38:30	outbound	B Bode		Gross	76260 lb
Out	08/19/2014 09:13:03	outbound	B Bode		Tare	37640 lb
					Net	38620 lb
					Tons	19.31

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.31	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Land farm- N; 34°43.413' W; 107°2.449153' Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 19	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-15
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	3440	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	05	19	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Casias	[signature]	05	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: RS Landfarm N: 34°43.413 W: 107°2.443' 5380
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Cole	[signature]	5	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 07:50

FULL WEIGHT: 73,800 Remarks if needed: _____

EMPTY WT: 33,160 _____

NET WEIGHT: 40640 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BOOKER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63630

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/19/2014 08:51:38	Inbound	D Bode
Out	08/19/2014 09:29:12	outbound	D Bode

Inbound

Gross	73620 lb
Tare	33160 lb
Net	40460 lb
Tons	20.23

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	5	100	20.23	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Esparza

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-43
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 07:57

FULL WEIGHT: 70,060 Remarks if needed: _____

EMPTY WT: 34,960 _____

NET WEIGHT: 35,100 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63639

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/19/2014 08:53:29	outbound	B Bode		Gross	69920 lb
Out	08/19/2014 09:31:57	outbound	B Bode		Tare	36080 lb
					Net	33840 lb
					Tons	16.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	16.92	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month 8	Day 19	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

(025)

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-46
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	35Yd	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	19	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N: 34°43.413' W: 107°2.153' E: 104,534.80
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Ryan Tolo	[signature]	8	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 8:06

FULL WEIGHT: 70560 Remarks if needed: _____

EMPTY WT: 34,640 _____

NET WEIGHT: 35,920 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 0624

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63641

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC624
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/19/2014 08:58:11	outbound	B Bode		Gross	70400 lb*
Out	08/19/2014 09:55:15	outbound	B Bode		Tare	34560 lb
			* Manual Weight		Net	35840 lb
					Tons	17.92

Comments Had to re-enter ticket data

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	17.92	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Richard S

403WM

18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name	Signature	Month	Day	Year	
19. Certificate of Final Treatment/Disposal PCS Landfarm N:34°43.413' W:107°2.153' Elev-5480					
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name	Signature	Month	Day	Year	
Brian Bode		8	19	14	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

5

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

624

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-44
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	15.82	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
E. W. Smith		1	19	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		1	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landform N: 34°43.413' W: 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Ryan Flo		1	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 08:15

FULL WEIGHT: 73,300 Remarks if needed: _____

EMPTY WT: 35,260 _____

NET WEIGHT: 38,040 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63643

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/19/2014 09:09:54	Inbound	B Bode		Gross	70400 lb*
Out	08/19/2014 09:51:55	outbound	B Bode		Tare	35080 lb
			* Manual Weight		Net	35320 lb
					Tons	17.66

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	17.66	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm - N 34° 43.413' W 107° 2.153' Elev 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

015

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-45
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	38 cu yd	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	05	19	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	05	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS Landfarm N 34° 43 41" W 107° 2, 153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. HW, 22480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
T Simon Peña	[signature]	05	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8-18-17 TIME: 11:21

FULL WEIGHT: 74240 Remarks if needed: _____

EMPTY WT: 33,160 _____

NET WEIGHT: 41,080 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63657

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/19/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	08/19/2014 12:17:53	Inbound	B Bode		Gross	73940 lb
Out	08/19/2014 12:52:48	outbound	B Bode		Tare	32780 lb
					Net	41160 lb
					Tons	20.58

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	20.58	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Cristian Egoz

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413' W:107°2.153 Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-47
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt / Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PLS. Land Farm N 34°42.448' W 107°2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
			19	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/19/14 TIME: 11:27

FULL WEIGHT: 77,660 Remarks if needed: _____

EMPTY WT: 37,640 _____

NET WEIGHT: 40,020 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1017

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/14 TIME: 0828

FULL WEIGHT: 69,000 Remarks if needed: _____

EMPTY WT: 34,040 _____

NET WEIGHT: 34,960 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63692

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/20/2014 09:59:08	outbound	B Bode
Out	08/20/2014 10:34:48	outbound	B Bode

Inbound

Gross	68780 lb
Tare	34760 lb
Net	34020 lb
Tons	17.01

Comments

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.01	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

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NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: WMNA 71414-51
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N: 34° 43.413' W: 107° 2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Hale		8	20	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/14 TIME: 0825

FULL WEIGHT: 72,760 Remarks if needed: _____

EMPTY WT: 35,000 _____

NET WEIGHT: 37,760 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA R BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63691

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/20/2014 09:57:32	outbound	B Bode		Gross	72620 lb
Out	08/20/2014 10:32:31	outbound	B Bode		Tare	34900 lb
					Net	37720 lb
					Tons	18.86

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	18.86	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

1 – 6:00 to 10:30

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NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-50
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE: 10:30

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MARTY LUNA TRUCK		8	20	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: DCS Coordinates N 34° 43.413' W 107° 2.153'

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Hale		8	20	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/14 TIME: 0830

FULL WEIGHT: 68,620 Remarks if needed: _____

EMPTY WT: 33,640 _____

NET WEIGHT: 34,960 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA R BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63693

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator
In	08/20/2014 09:59:56	Inbound	B Bode
Out	08/20/2014 10:39:32	outbound	B Bode

Inbound

Gross	68420 lb
Tare	33460 lb
Net	34960 lb
Tons	17.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.48	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

530

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	71414-52
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM 1. 34°42'.413" W 107°2'.153" Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		8	20	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/14 TIME: 1202

FULL WEIGHT: 75,360 Remarks if needed: _____

EMPTY WT: 34,760 _____

NET WEIGHT: ~~46,000~~ 40,600 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63705

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator			
In	08/20/2014 13:02:19	Inbound	dbaca	Inbound	Gross	74980 lb
Out	08/20/2014 13:37:36	outbound	B Bode		Tare	33360 lb
					Net	41620 lb
					Tons	20.81

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.81	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

322

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-53
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
			20	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/2014 TIME: 12:10

FULL WEIGHT: 75,300 Remarks if needed: _____

EMPTY WT: 33,460 _____

NET WEIGHT: 41,840 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63707

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/20/2014 13:07:21	Inbound	dbaca
Out	08/20/2014 14:06:11	outbound	B Bode

Inbound

Gross	74960 lb
Tare	33320 lb
Net	41640 lb
Tons	20.82

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	20.82	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Espinoza

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

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NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NA — Manifest Doc No. Number

2. Page 1 of 1

GENERATOR

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing): City, State, Zip Code

A. Manifest Number: WMNA 71414-54

B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name

8. US EPA ID Number: US EPA ID Number

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt. / Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/20/14 TIME: 1217

FULL WEIGHT: 73,920 Remarks if needed: _____

EMPTY WT: 34,900 _____

NET WEIGHT: 39020 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63710

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/20/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/20/2014 13:16:57	outbound	dbaca
Out	08/20/2014 13:53:49	outbound	B Bode

Inbound

Gross	73760 lb
Tare	34720 lb
Net	39040 lb
Tons	19.52

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	19.52	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

LC-620

11:45 — 12.43

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-55
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE: 11:45 — 12:45

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

10 6.'05

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCR
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/21/14 TIME: 0731

FULL WEIGHT: 72,380 Remarks if needed: _____

EMPTY WT: 35,620 _____

NET WEIGHT: 36,760 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne E. Hafer Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63728

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/21/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/21/2014 08:24:14	outbound	B Bode		Gross	72240 lb
Out	08/21/2014 08:57:28	outbound	B Bode		Tare	35580 lb
					Net	36660 lb
					Tons	18.33

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S	100	18.33	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-65
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	36240	Wt / Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
J. WHITE		08	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MARTY MONTOYA		08	21	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS Landfarm N 34°43.413' W 107°02.153' Elev. 5450
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Peck		8	21	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITION SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/21/14 TIME: 0737

FULL WEIGHT: 67,700 Remarks if needed: _____

EMPTY WT: 33,420 _____

NET WEIGHT: 34,280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63729

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/21/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/21/2014 08:29:33	outbound	B Bode		Gross	67440 lb
Out	08/21/2014 08:59:58	outbound	B Bode		Tare	34020 lb
					Net	33420 lb
					Tons	16.71

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	16.71	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

NON-HAZARDOUS MANIFEST

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing):

A. Manifest Number WMNA 71414-60

B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
CASIAS TRUCKING	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	**10. US EPA ID Number** NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	32.81	Y	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	6	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		6	21	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-LandFarm N 34°43 4/3' W 107°2.15.3
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Elev. 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian [illegible]	[signature]	8	21	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/21/14 TIME: 0744

FULL WEIGHT: 75,140 Remarks if needed: _____

EMPTY WT: 33,260 _____

NET WEIGHT: 41,880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 530

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63730

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/21/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier RHIENV RHINO ENVIRONMENTAL SERVICES
Vehicle# 530 Volume 20.0
Container
Driver
Check#
Billing# 00000001
Grid

	Time	Scale	Operator	Inbound		
In	08/21/2014 08:39:25	Inbound	B Bode		Gross	74940 lb
Out	08/21/2014 09:17:19	outbound	B Bode		Tare	33140 lb
					Net	41800 lb
					Tons	20.90

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.90	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

Gustavo Enriquez

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-61
B. State Generator's ID: NA

5. Transporter 1 Company Name: ~~CASIAS TRUCKING~~
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4/15 CY	W/ Lb	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. W. KITCHEN		04	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		04	21	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS landfarm N 34°43.413' W107°2.103' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Ronald Solt		04	21	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 0753

FULL WEIGHT: 75360 Remarks if needed: _____

EMPTY WT: 35540 _____

NET WEIGHT: 39,820 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITTNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63805

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound	Gross	74080 lb
In	08/25/2014 08:54:07	Inbound	B Bode		Tare	35520 lb
Out	08/25/2014 09:27:46	outbound	B Bode		Net	38560 lb
					Tons	19.28

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.28	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-70
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	39520	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Containers
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Containers
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Containers

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS Landfarm N 35° 42.413' W 106° 42.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	5	25	11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 0746

FULL WEIGHT: 71,340 Remarks if needed: _____

EMPTY WT: 34,580 _____

NET WEIGHT: 36,760 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bittner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

522

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63804

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JCS22
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/25/2014 08:43:29	outbound	B Bode		Gross	71060 lb
Out	08/25/2014 09:13:52	outbound	B Bode		Tare	36300 lb
					Net	34760 lb
					Tons	17.38

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.38	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 71414-69
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	24.34	WT	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Descriptions

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	1	2	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		1	2	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Land Farm N 34°43'41.3" W 107°02'15.3" Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	1	23	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 1049

FULL WEIGHT: 74,600 Remarks if needed: _____

EMPTY WT: 36300 _____

NET WEIGHT: 38,300 _____

Type of conveyance weighed: _____

Vehicle license plate If needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Sok Chu Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6832

Original
Ticket# 63822

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/25/2014 11:47:31	outbound	B Bode		Gross	74500 lb
Out	08/25/2014 12:18:03	outbound	B Bode		Tare	38800 lb
					Net	35700 lb
					Tons	17.85

Comments

	Product	LDM	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont	S/100	17.85	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-71
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°-3.413' W 107°-2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Ruth		8	25	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 1053

FULL WEIGHT: 72,920 Remarks if needed: _____

EMPTY WT: 35,520 _____

NET WEIGHT: 37,400 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63821

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/25/2014 11:45:13	outbound	B Bode		Gross	72800 lb
Out	08/25/2014 12:20:30	outbound	B Bode		Tare	35380 lb
					Net	37420 lb
					Tons	18.71

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	18.71	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 71414-72
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt / Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	23	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Land from N 34° 23.413' W 107° 2.43' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rule	[illegible]	8	23	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 1337

FULL WEIGHT: 76,240 Remarks if needed: _____

EMPTY WT: 38,800 _____

NET WEIGHT: 37,440 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63837

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JCS22
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/25/2014 14:35:32	outbound	B Bode
Out	08/25/2014 15:07:13	outbound	B Bode

Inbound

Gross	75920 lb
Tare	35380 lb
Net	40540 lb
Tons	20.27

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	20.27	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	25	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	71414-56
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
CASIAS TRUCKING	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Descriptions	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N 34°43.413' W 107°2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. 7.10.15 4:30

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bill		8	25	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/25/14 TIME: 1344

FULL WEIGHT: 72,200 Remarks if needed: _____

EMPTY WT: 35,380 _____

NET WEIGHT: 36,820 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63838

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/25/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/25/2014 14:36:29	Inbound	B Bode
Out	08/25/2014 15:10:48	outbound	B Bode

Inbound

Gross	71900 lb
Tare	35160 lb
Net	36740 lb
Tons	18.37

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	18.37	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal PCS-Landfarm-N:34°43.413' W:107°2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Elev: 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	25	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 71414-57
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID 0101403
CASIAS TRUCKING	NA	D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID 013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	25	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal VS landfill 34°43.413' N 107°2.53' Elev. 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Peck	[illegible]	8	25	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 07:35

FULL WEIGHT: 70,900 Remarks if needed: _____

EMPTY WT: 35,340 _____

NET WEIGHT: 35,560 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63853

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/26/2014 08:27:53	outbound	B Bods
Out	08/26/2014 09:03:34	outbound	B Bode

Inbound

Gross	70620 lb
Tare	36720 lb
Net	33900 lb
Tons	16.95

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	16.95	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm-N:34°43.413' W:107°2.153' Elev: 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: WMNA 71414-58
B. State Generator's ID: NA

5. Transporter 1 Company Name: CASIAS TRUCKING
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt/Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	4	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		4	21	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS Landfarm N 34°43.413' W 107°2.153' Cell 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Hall	[signature]	5	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 07:40

FULL WEIGHT: 73,260 Remarks if needed: _____

EMPTY WT: 35,180 _____

NET WEIGHT: 38,080 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Reprint
Ticket# 63854

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator			
In	08/26/2014 08:35:53	outbound	B Bode	Inbound	Gross	73100 lb
Out	08/26/2014 09:05:19	outbound	B Bode		Tare	35160 lb
					Net	37940 lb
					Tons	18.97

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.97	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER	Verrick Torres			08	26 14
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 8	Day 26	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

6 of 20

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of
	NA	1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA 71414-59 B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
CASIAS TRUCKING	NA	0101403 / 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
Transporter 2 Company Name	US EPA ID Number	State Transporter ID / Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	38000	LB	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
L. LUTTRELL		08	21	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		08	21	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS-Landfarm N 34° 48.413' W 107° 2.153'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. Ticket 5480

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bock		8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 10:26

FULL WEIGHT: 73,940 Remarks if needed: _____

EMPTY WT: 36,720 _____

NET WEIGHT: 37,220 lbs. _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Stiver Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63864

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/26/2014 11:23:53	outbound	B Bode
Out	08/26/2014 11:52:20	outbound	B Bode

Inbound

Gross	73660 lb
Tare	35060 lb
Net	38600 lb
Tons	19.30

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.30	Tons			SANJUAN

Driver's Signature Brian Bode

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		8/26/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68401

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave Kirtland AFB NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity ~~(yd3)~~ ~~(tons)~~ lbs
Non-hazardous Petroleum contaminated soil	1	DT	37220

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
L.W. Bitner		08 12 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Derrick T Griego Casias Trucking 0101403 505-991-2000		08 / 26 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Burke		8 26 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 10:30

FULL WEIGHT: 72,680 Remarks if needed: _____

EMPTY WT: 35,160 _____

NET WEIGHT: 37,520 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Sizemore Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6832

Reprint
Ticket# 63865

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/26/2014 11:26:26	outbound	B Bode
Out	08/26/2014 12:00:56	outbound	B Bode

Inbound

Gross	72540 lb
Tare	35200 lb
Net	37340 lb
Tons	18.67

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.67	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34° 43.413' W:107° 2.153' Elev.:5480

Received By (printed/typed name): Brian Bode

Signature

Month / Day / Year: 8 26 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

SPECIAL WASTE SHIPMENT RECORD

U20

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68404

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave Kirtland AFB NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (~~yd3~~) (~~tons~~)
Non-Hazardous Petroleum			15
Contaminated soil	1	DT	37520

7. **Special handling instructions:** bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
L.W BITNER		08/26/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ Casias Trucking 0101403 505-991-2080		08/26/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		8/26/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 13:29

FULL WEIGHT: 73,860 Remarks if needed: _____

EMPTY WT: 35,060 _____

NET WEIGHT: 37,800 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63882

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/26/2014 14:29:54	outbound	B Bode		Gross	73700 lb
Out	08/26/2014 15:01:03	outbound	B Bode		Tare	34120 lb
					Net	39580 lb
					Tons	19.79

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.79	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month / Day / Year	
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name: Brian Bode	Signature	Month: 8 / Day: 26 / Year: 14	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
	NA	Manifest Number	1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771173
B. State Generator's ID: NA

5. Transporter 1 Company Name
RHINO ENVIRONMENTAL

6. US EPA ID Number
NA

C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name

8. US EPA ID Number
US EPA ID Number

E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number
NA

G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/26/14 TIME: 13:39

FULL WEIGHT: 75060 Remarks if needed: _____

EMPTY WT: 35,200 _____

NET WEIGHT: 39,860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Vict R. Bran

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63884

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/26/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/26/2014 14:40:27	outbound	B Bode
Out	08/26/2014 15:06:59	outbound	B Bode

Inbound

Gross	74680 lb
Tare	34900 lb
Net	39780 lb
Tons	19.89

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	5 100	19.89	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-SOIL FARM N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing):
City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 2771172
B. State Generator's ID: NA

5. Transporter 1 Company Name
RHINO ENVIRONMENTAL Cosks Trucking

6. **US EPA ID Number** NA

C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name

8. **US EPA ID Number** US EPA ID Number

E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. **US EPA ID Number** NA

G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty. 6	lbs	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. **Additional Descriptions for Materials Listed Above**
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MARCO MARTINEZ	[signature]	8	04	2014

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS SOIL FARM N 34°43.413' W 106°2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	8	26	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 08:00

FULL WEIGHT: 75,640 Remarks if needed: _____

EMPTY WT: 34,880 _____

NET WEIGHT: 40,760 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cheryl Fleischhacker Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 63899

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/27/2014 08:56:47	outbound	B Bode		Gross	75500 lb
Out	08/27/2014 09:24:46	outbound	B Bode		Tare	34960 lb
					Net	40540 lb
					Tons	20.27

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.27	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413' W:107°2.153 Elev 5480			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bade	Signature	Month	Day	Year
			8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):

A. Manifest Number: WMNA 2771170

B. State Generator's ID: NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL Oasis Trucking

6. US EPA ID Number NA

C. State Transporter's ID 0101403

D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID 013230

H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL **WM Profile #** 103057NM	1	DT	40,760		
b. **WM Profile #**					
c. **WM Profile #**					
d. **WM Profile #**					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]			14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°43.413' W 107°21.53

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. E Rev 5456

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 08:05

FULL WEIGHT: 72,260 Remarks if needed: _____

EMPTY WT: 34,880 _____

NET WEIGHT: 37,380 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cliffery J Freischkorn Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63900

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/27/2014 09:01:31	outbound	B Bode
Out	08/27/2014 09:32:15	outbound	B Bode

Inbound

Gross	72080 lb
Tare	37320 lb
Net	34760 lb
Tons	17.38

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.38	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev. 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month	Day	Year
			8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

5LL

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number **WMNA** 2771171
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL Quivas Trucking
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty. 37.72	Wt./Vol. Tons	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell
Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Chris Fenwick		6	27	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS Landfarm N 34°43.413' W 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Ryan Thole		6	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 10:39

FULL WEIGHT: 74,800 Remarks if needed: _____

EMPTY WT: 34,960 _____

NET WEIGHT: 39,840 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63910

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/27/2014 11:34:54	outbound	B Bode
Out	08/27/2014 12:03:40	outbound	dbaca

Inbound

Gross	74680 lb
Tare	34760 lb
Net	39920 lb
Tons	19.96

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.96	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue-GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

020

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 **4. Generator's Phone** 505-853-3484	City, State, Zip Code	WMNA	2771145
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL **WM Profile #** 103057NM	1	DT	Total Qty.	Wt./ Vol.	Comments
b. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name **WM Profile #** WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	09	27	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	09	27	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal Pc Station N 34°43.413' W 107°2.153' E 1615780

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rolle	[signature]	09	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 10:46

FULL WEIGHT: 72,640 Remarks if needed: _____

EMPTY WT: 37,320 _____

NET WEIGHT: 35,320 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63911

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator			
In	08/27/2014 11:38:03	outbound	R Bode	Inbound	Gross	72500 lb
Out	08/27/2014 12:07:03	outbound	dbaca		Tare	36160 lb
					Net	36340 lb
					Tons	18.17

Comments:

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	18.17	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS - Soil Farm N: 34°43.413' W: 107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BAST		8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 **4. Generator's Phone** 505-853-3484	City, State, Zip Code	WMNA	2771146
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Quantity	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
C. L. Creighton	C. L. Creighton	05	27	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
			27	11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 13:23

FULL WEIGHT: 73,800 Remarks if needed: _____

EMPTY WT: 34,760 _____

NET WEIGHT: 39,040 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63923

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/27/2014 14:21:45	outbound	B Bode		Gross	73600 lb
Out	08/27/2014 14:51:27	outbound	B Bode		Tare	34600 lb
					Net	39000 lb
					Tons	19.50

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.50 Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA 2771147
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	[illegible]	[illegible]	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS land farm N 34°43.413' W 107°2.153' Elev 5480

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian [illegible]	[illegible]	8	27	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/27/14 TIME: 13:27

FULL WEIGHT: 71,780 Remarks if needed: _____

EMPTY WT: 36,160 _____

NET WEIGHT: 35,620 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63924

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/27/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound
In	08/27/2014 14:23:46	outbound	B Bode	
Out	08/27/2014 14:54:40	outbound	B Bode	

Gross	71660 lb
Tare	36380 lb
Net	35280 lb
Tons	17.64

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	17.64	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name: Derrick Griego	Signature	Month: 8	Day: 27	Year: 14
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name: Brian Bode	Signature	Month: 8	Day: 27	Year: 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2771144
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	3,620	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Carrigan		4	27	17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
		04	27	17

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Rock		4	27	17

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/28/14 TIME: 07:50

FULL WEIGHT: 76,780 Remarks if needed: _____

EMPTY WT: 36,160 _____

NET WEIGHT: 40,620 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63941

Customer Name RHINDENV RHIND ENVIRONMENTAL
Ticket Date 08/28/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/28/2014 08:43:36	outbound	B Bode
Out	08/28/2014 09:12:37	outbound	B Bode

Inbound

Gross	76640 lb
Tare	38160 lb
Net	38480 lb
Tons	19.24

Comments

	Product	LDx	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.24	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-SOIL FARM N:34°43.413' W:107°2.153' Elev.5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		8	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

522

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: WMNA 2771149
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO-ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4 [illegible]	W / Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	5	23	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/28/14 TIME: 08:13

FULL WEIGHT: 77,980 Remarks if needed: _____

EMPTY WT: 35,440 _____

NET WEIGHT: 42,540 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: WAYNE BITNER Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63944

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/28/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2014 09:07:32	outbound	B Bode		Gross	77840 lb
Out	08/28/2014 09:49:35	outbound	B Bode		Tare	35420 lb
					Net	42420 lb
					Tons	21.21

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	21.21	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landform N 34°43.413' W 107°2.153' Elev. 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Burke	Signature	Month 8	Day 28	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 2771148

B. State Generator's ID: NA

5. Transporter 1 Company Name: ~~RHINO ENVIRONMENTAL~~ CAJUN TRUCKING

6. US EPA ID Number: NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name

8. US EPA ID Number: US EPA ID Number

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL — WM Profile # 103057NM	1	DT	42540	lb	Comments
b. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name — WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	08	28	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	08	28	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Landfarm N 34°47.413' W 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	8	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/28/14 TIME: 10:42

FULL WEIGHT: 75,620 Remarks if needed: _____

EMPTY WT: 38,160 _____

NET WEIGHT: 37,460 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63954

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/28/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	08/28/2014 11:33:49	outbound	B Bode
Out	08/28/2014 12:01:05	outbound	B Bode

Inbound

Gross	75460 lb
Tare	36820 lb
Net	38640 lb
Tons	19.32

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	19.32	Tons				SANJUAN

Driver's Signature Brian Bode

Total Tax
Total Ticket

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature Brian Bode	Month 8	Day 28	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2771169
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name: Transporter 2 Company Name	8. US EPA ID Number: US EPA ID Number	E. State Transporter's ID: State Transporter ID F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt. / Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/28/14 TIME: 13:15

FULL WEIGHT: 74,440 Remarks if needed: _____

EMPTY WT: 36,820 _____

NET WEIGHT: 37,580 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63972

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/28/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/28/2014 15:38:17	outbound	B Bode		Gross	74540 lb
Out	08/28/2014 16:03:30	outbound	dbaca		Tare	35440 lb
					Net	39100 lb
					Tons	19.55

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.55	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing): City, State, Zip Code

A. Manifest Number: WMNA 2771167

B. State Generator's ID: NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL (Casias Trucking)

6. US EPA ID Number NA

C. State Transporter's ID: 0101403

D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name

8. US EPA ID Number US EPA ID Number

E. State Transporter's ID: State Transporter ID

F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID: 013230

H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		5	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08/28/2014 TIME: 11:20

FULL WEIGHT: 78,480 Remarks if needed: _____

EMPTY WT: 35,420 _____

NET WEIGHT: 43,060 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Chesher Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63955

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/28/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/28/2014 12:12:20	Inbound	B Bode		Gross	71200 lb
Out	08/28/2014 13:02:37	outbound	dbaca		Tare	35200 lb
					Net	36000 lb
					Tons	18.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.00	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

020

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	2771168
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
				14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	26	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS-Landfarm N 34°43.43' W 107°2.153' T-14N-R3W
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	28	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/29/14 TIME: 0731

FULL WEIGHT: 75,480 Remarks if needed: _____

EMPTY WT: 35,600 _____

NET WEIGHT: 39,880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bonnie Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63982

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/29/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/29/2014 08:29:14	outbound	dbaca		Gross	75340 lb
Out	09/29/2014 08:59:57	outbound	dbaca		Tare	35360 lb
					Net	39980 lb
					Tons	19.99

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. 5	100	19.99	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771166
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/29/14 TIME: 0736

FULL WEIGHT: 79,580 Remarks if needed: _____

EMPTY WT: 35,140 _____

NET WEIGHT: 44,440 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Tittle Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 63983

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/29/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	08/29/2014 08:32:41	outbound	dbaca		Gross	79440 lb
Out	08/29/2014 09:02:58	outbound	dbaca		Tare	35100 lb
					Net	44340 lb
					Tons	22.17

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	22.17	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771165
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		11	27	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		11	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		11	24	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/27/14 TIME: 1015

FULL WEIGHT: 77000 Remarks if needed: _____

EMPTY WT: 35,100 _____

NET WEIGHT: 41,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Bitner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64004

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 08/29/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	08/29/2014 11:45:33	outbound	dbaca
Out	08/29/2014 12:23:36	outbound	dbaca

Inbound

Gross	77000 lb
Tare	35040 lb
Net	41960 lb
Tons	20.98

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	5	100	20.98	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-5021 FACM N: 34°43.413' W: 107° 2.153' ELEV: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: WMNA 2771163
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4Yd0	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number | EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	06	24	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	06	24	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	06	24	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 8/29/14 TIME: TSK 8/29/14 1040

FULL WEIGHT: 76,620 Remarks if needed: _____

EMPTY WT: 35,360 _____

NET WEIGHT: 41,260 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Wayne Ertner Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64001

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 08/29/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	08/29/2014 11:36:42	outbound	dbaca		Gross	76500 lb
Out	08/29/2014 12:05:40	outbound	dbaca		Tare	34040 lb
					Net	42460 lb
					Tons	21.23

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.23	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS 502/ Farm N: 34° 43.415' W: 107° 2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		8	29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number: **WMNA** 2771164
B. State Generator's ID: NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL (CASING Technology)
6. US EPA ID Number NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt. / Vol.	Comments

J. Additional Descriptions for Materials Listed Above Additional Descriptions

K. Disposal Location: Cell ____ Level ____ Grid ____

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	04	29	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		04	29	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
			29	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/02/14 TIME: 07:45

FULL WEIGHT: 74360 Remarks if needed: _____

EMPTY WT: 35220 _____

NET WEIGHT: 39,140 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64054

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/02/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound
In	09/02/2014 08:48:21	outbound	B Bode	
Out	09/02/2014 09:20:50	outbound	B Bode	

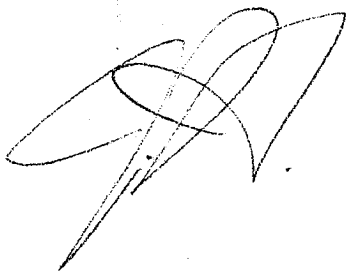
Gross	74300 lb
Tare	35520 lb
Net	38780 lb
Tons	19.39

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.39	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature



403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413'W:107°2.153' Elev.5480			
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	Brian Bode		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 023

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771161
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/02/14 TIME: 07:35

FULL WEIGHT: 77960 Remarks if needed: _____

EMPTY WT: 35740 _____

NET WEIGHT: 42,220 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: [redacted] Sign: Scott Clark

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Ph: 505-917-6232

Original
Ticket# 64053

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/02/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/02/2014 08:44:42	outbound	B Bode
Out	09/02/2014 09:18:23	outbound	B Bode

Inbound

Gross	77060 lb
Tare	35700 lb
Net	42160 lb
Tons	21.08

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.08	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS landfarm N: 34°43.413' W: 107°2.153 Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

1020

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (if different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number: WMNA 2771162
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	09	02	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal GPS Lat: N 34°43.413' W 107°2.453 Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/02/14 TIME: 10:40

FULL WEIGHT: 74,400 Remarks if needed: _____

EMPTY WT: 35520 _____

NET WEIGHT: 38,880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1023

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64066

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/02/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/02/2014 11:38:51	outbound	B Bode
Out	09/02/2014 12:09:21	outbound	dbaca

Inbound

Gross	74260 lb
Tare	35080 lb
Net	39180 lb
Tons	19.59

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.59	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS-landfarm N:34°43.413' W:107°2.153 Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117		WMNA	2771160
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number		
RHINO ENVIRONMENTAL	NA	C. State Transporter's ID	0101403
		D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	**8. US EPA ID Number**		
		E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	**10. US EPA ID Number**		
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT			
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible] Hernandez	[signature]	9	7	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS Land Farm N 34°43.413' W 107°2.163

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/02/14 TIME: 10:37

FULL WEIGHT: 79,040 Remarks if needed: _____

EMPTY WT: 35,700 _____

NET WEIGHT: 43,340 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64065

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 09/02/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/02/2014 11:31:28	outbound	B Bode
Out	09/02/2014 12:04:26	outbound	dbaca

Inbound

Gross	78080 lb
Tare	35520 lb
Net	43360 lb
Tons	21.68

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.68	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413'W:107°2.153'Elev'5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

6020

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2771159
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		9	2	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/02/14 TIME: 13:30

FULL WEIGHT: 75080 Remarks if needed: _____

EMPTY WT: 35,080 _____

NET WEIGHT: 40,000 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64082

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/02/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 523
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/02/2014 14:21:25	outbound	B Bode		Gross	74900 lb
Out	09/02/2014 14:47:05	outbound	B Bode		Tare	34960 lb
					Net	39940 lb
					Tons	19.97

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S 100	19.97	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-CELL N:34°43.413'W:107°2.153 Elev: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 9	Day 2	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

023

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2771158
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Quantity	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS CELL N 3473, 413 W 1012, 153 Cell 5 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		9	2	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 9-3-14 TIME: 7:20

FULL WEIGHT: 73020 Remarks if needed: _____

EMPTY WT: 35620 _____

NET WEIGHT: 37400 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64095

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/03/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/03/2014 08:50:41	outbound	B Bode		Gross	72960 lb
Out	09/03/2014 09:28:52	outbound	B Bode		Tare	36020 lb
					Net	36940 lb
					Tons	18.47

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	18.47	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-CELL N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month	Day	Year
			9	3	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

025

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771156
B. State Generator's ID: NA

5. Transporter 1 Company Name CACTUS Trucking
RHINO-ENVIRONMENTAL

6. US EPA ID Number NA

C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name

8. US EPA ID Number
US EPA ID Number

E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	32 Tons	W	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Carrigan	Cole Carrigan	07	03	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]		7	3	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		7	3	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 9-3-14 TIME: 7:20

FULL WEIGHT: 76480 Remarks if needed: _____

EMPTY WT: 35,440 _____

NET WEIGHT: 41040 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: C Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64096

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/03/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/03/2014 08:53:13	outbound	B Bode		Gross	76380 lb
Out	09/03/2014 09:37:29	outbound	B Bode		Tare	35140 lb
					Net	41240 lb
					Tons	20.62

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.62	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NA — Manifest Doc No. Number

2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing): City, State, Zip Code

A. Manifest Number WMNA 2771157

B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL (Cobra's Trucking)

6. US EPA ID Number NA

C. State Transporter's ID 0101403

D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name

8. US EPA ID Number US EPA ID Number

E. State Transporter's ID State Transporter ID

F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID 013230

H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	11.30	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cucchiaro		9	3	19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 9/3/14 TIME: 1132

FULL WEIGHT: 75,020 Remarks if needed: _____

EMPTY WT: 35,140 _____

NET WEIGHT: 39,880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 64115

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/03/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/03/2014 12:30:56	outbound	dbaca		Gross	74840 lb
Out	09/03/2014 13:06:42	outbound	b Bode		Tare	35160 lb
					Net	39680 lb
					Tons	19.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.84	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N. 34°43.413' W 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
B. Bode		9	3	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771154
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
				14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
				14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 9/3/14 TIME: 12:54

FULL WEIGHT: 75,260 Remarks if needed: _____

EMPTY WT: 36,020 _____

NET WEIGHT: 39,240 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64122

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/03/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/03/2014 13:48:12	outbound	b Bode		Gross	75060 lb
Out	09/03/2014 14:30:57	outbound	b Bode		Tare	35340 lb
					Net	39720 lb
					Tons	19.86

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	19.86	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

023

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number: **WMNA** 2771153
B. State Generator's ID: NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL
6. US EPA ID Number: NA
C. State Transporter's ID: 0101403
D. Transporter's Phone: 505-991-2000

7. Transporter 2 Company Name: Transporter 2 Company Name
8. US EPA ID Number: US EPA ID Number
E. State Transporter's ID: State Transporter ID
F. Transporter's Phone: Transporter 2 Phone

9. Designated Facility Name and Site Address:
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number: NA
G. State Facility ID: 013230
H. State Facility Phone: 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above: Additional Description

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information: Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		9	3	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		9	3	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Friday 09/05/14

truck #	net weight
620	39,860
522	39,960
620	43,360
522	41,800
620	38,620
522	39,580

243,180 lbs = 121.59 tons

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 07:32

FULL WEIGHT: 75,280 Remarks if needed: _____

EMPTY WT: 34,000 _____

NET WEIGHT: 41,280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64184

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	09/05/2014 08:39:24	outbound	B Bode
Out	09/05/2014 09:20:31	outbound	B Bode

Inbound

Gross	75140 lb
Tare	35180 lb
Net	39960 lb
Tons	19.98

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.98	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature J GARTHWAITE

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Cell Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9/5/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68405

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave Kirtland AFB, NM 87117
Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)
Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous Petroleum contaminated Soil	1	DT	41280

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scot Clark		9/5/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no:	Signature	Month / Day / Year
Jonathan Garthwaite Casias Trucking 0101403 505-991-2000		09/05/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no:	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-Cell Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9/5/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 07:29

FULL WEIGHT: 76640 Remarks if needed: _____

EMPTY WT: 35,500 _____

NET WEIGHT: 41,140 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64185

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/05/2014 08:40:38	Inbound	B Bode
Out	09/05/2014 09:15:27	outbound	B Bode

Inbound

Gross	75320 lb
Tare	35460 lb
Net	39860 lb
Tons	19.93

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.93	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 15 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68415

620

Mailing Address:	❑ Physical Address:	☒ Physical Address:
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave, Kirtland AFB, NM ~~87115~~ 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2):

Agent's Telephone no.:

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous Petroleum contaminated Soil	1	DT	~~38960~~ 43360 (SCC)

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark	[signature]	9/5/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ, Casias Trucking, 010403, 505-991-2000	[signature]	9/5/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS- N: 34°43.413 W: 109°2.153 Elev 5480

Received By (printed/~~typed~~ name):	Signature	Month / Day / Year
Brian Dodd	[signature]	9/5/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68416

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (tons) lbs
Non hazardous Petroleum contaminated Soil	1	DT	41140

7. Special handling instructions:

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9 / 15 / 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ CASIA'S TRUCKING 0101403 5205 Rt 1 #200		9 / 15 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 15 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 10:45

FULL WEIGHT: 78,820 Remarks if needed: _____

EMPTY WT: ~~39,800#~~ 35,460

NET WEIGHT: ~~38,900#~~ 43,360

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64200

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/05/2014 11:38:50	outbound	B Bode		Gross	78660 lb
Out	09/05/2014 12:12:20	outbound	B Bode		Tare	35300 lb
					Net	43360 lb
					Tons	21.68

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.68	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS- N:34° 43. 413 W:107° 2. 153 Elev 5480

Received By (printed/typed name): Brian Bode

Signature

Month / Day / Year 9/5/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 10:53

FULL WEIGHT: 76,000 Remarks if needed: _____

EMPTY WT: ~~39,960~~ 35,180

NET WEIGHT: 40,820

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64201

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	09/05/2014 11:48:12	Inbound	B Bode
Out	09/05/2014 12:22:31	outbound	B Bode

Inbound

Gross	75820 lb
Tare	34020 lb
Net	41800 lb
Tons	20.90

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.90	Tons				SANJUAN

Driver's Signature Jonathan Garcia White

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 5 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68413

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address KAFB BFF

2. Generator's name and address KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no. 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous Petroleum Contaminated Soil	1	DT	~~36060~~ 40800 (Scc)

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9 15 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Santiago Gallegos Casias Trucking 010403 505-991-2000		09 / 05 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bole		9 15 14

White/GEN Yellow/CUSTOMER ~~Pink/LANDFILL~~

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 13:45

FULL WEIGHT: 74,120 Remarks if needed: _____

EMPTY WT: 35,300 _____

NET WEIGHT: 38,820 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Alex Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64313

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/05/2014 14:38:56	Inbound	dbaca		Gross	73720 lb
Out	09/05/2014 15:26:46	outbound	dbaca		Tare	35100 lb
					Net	38620 lb
					Tons	19.31

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.31	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space		
12. Waste disposal site location coordinates DCS - 5021 FARM N:34° 43.413' W:107° 2.153' ELEV:5480		
Received By (printed/typed name): DANNY BACA	Signature	Month / Day / Year 9 / 4 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

020

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68410

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB- BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave Kirtland AFB, NM 87117

Generator's Telephone no.:

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.:

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous Petroleum contaminated soil	1	DT	38820

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clarke		9/5/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ CASEYS Trucking 0101403 505-321-2000		9 5 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: DCS- 3021 FARM N:34° 43.413' W:107° 2.153' ELEV: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
DANNY BACA		9 14 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/05/14 TIME: 13:48

FULL WEIGHT: 72,980 Remarks if needed: _____

EMPTY WT: ~~41,800~~ 34,020

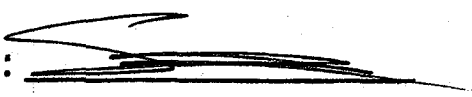
NET WEIGHT: ~~31,180~~ 38,960

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: 

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

* RHINO NEEDS THESE TWO SHEETS MONDAY 09/08 *

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 64214

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/05/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/05/2014 14:53:58	outbound	dbaca		Gross	72860 lb
Out	09/05/2014 15:45:03	outbound	dbaca		Tare	33280 lb
					Net	39580 lb
					Tons	19.79

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.79	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature JONATHAN GONZALEZ

03WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS SOZI FARM N: 34° 43.413' W: 107° 2.153' ELEV: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
DANNY BACA		9 / 4 / 14

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68412

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*	
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6	
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031	
505/892-2055	SWM #231402	SWM #013230 (sp)	Profile # 103057 NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave, Kirtland AFB, NM 87117
Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2):
Agent's Telephone no.:

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous petroleum contaminated soil	1	DT	~~31180~~ 38960 (SCC)

7. **Special handling instructions:** bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark	[signature]	9/5/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Jonathan Garthwaite, Casias Trucking 010403, 505-991-2000	[signature]	09/05/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS Soil Farm N: 34° 43.413' W: 107° 2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Danny Baca	[signature]	9/4/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/08/14 TIME: 07:31

FULL WEIGHT: 74,640 Remarks if needed: _____

EMPTY WT: 33620 _____

NET WEIGHT: 41,020 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64221

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking
Ticket Date	09/08/2014	Vehicle#	JC522
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Route		Check#	
Hauling Ticket#		Billing#	0000001
Destination		Grid	
PO#			

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/08/2014 08:31:53	outbound	B Bode		Gross	74480 lb
Out	09/08/2014 09:14:41	outbound	B Bode		Tare	36280 lb
					Net	38200 lb
					Tons	19.10

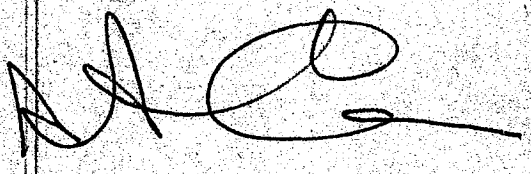
Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	19.10	Tons				SANJUAN

WASTE MANAGEMENT

Total Tax
Total Ticket

Driver's Signature



403WM

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68411

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB- BFF

2. Generator's name and address: KAFB, 5202 Randolph AVE Kirtland, AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~
Non-hazardous petroleum contaminated soil	1	DT	165 / 41020

7. Special handling instructions: bio- farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9/8/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Albert Casias Casias Trucking 010403 505-991-2000		9/8/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-landfarm N:34°43-413' W:107°2-153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Rode		9/8/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

737

620

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/08/14 TIME: 07:27

FULL WEIGHT: 78,360 Remarks if needed: _____

EMPTY WT: 34,700 _____

NET WEIGHT: 43,660 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 64220

Ph: 505-917-6232

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking
Ticket Date	09/08/2014	Vehicle#	LC 620
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Route		Check#	
Hauling Ticket#		Billing#	0000001
Destination		Grid	
PO#			

Volume

	Time	Scale	Operator	Inbound		
In	09/08/2014 08:30:02	outbound	B Bode		Gross	78200 lb
Out	09/08/2014 09:12:10	outbound	B Bode		Tare	35680 lb
					Net	42520 lb
					Tons	21.26

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	21.26	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68414

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous petroleum contaminated soil	1	DT	43660

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
[illegible]	[signature]	9 / 18 / 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARIO MARINEZ Casias Trucking 010403 505-991-2000	[signature]	9 / 18 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-landfarm N: 34°43.413, W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bade	[signature]	9 / 18 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.08.14 TIME: 10:57

FULL WEIGHT: 78560 Remarks if needed: _____

EMPTY WT: 35680 _____

NET WEIGHT: 42880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 6020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 64234

Ph: 505-917-6232

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking		
Ticket Date	09/08/2014	Vehicle#	LC 620	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Route		Check#			
Hauling Ticket#		Billing#	0000001		
Destination		Grid			
PO#					

	Time	Scale	Operator	Inbound		
In	09/08/2014 11:49:21	outbound	B Bode		Gross	78400 lb
Out	09/08/2014 12:15:31	outbound	B Bode		Tare	34860 lb
					Net	43540 lb
					Tons	21.77

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont.	S	100	21.77	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68406

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB, 5202 Randolph Ave Kirtland AFB NM 87117 — Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2) — Agent's Telephone no.:

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (~~tons~~) lbs
Non-hazardous Petroleum contaminated soil	1	DT	42,880

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9 / 8 / 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ Casas Trucking D101403 505-991-2000		9 / 8 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-landfarm N:34°43.413' W:107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Poole		9 / 8 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 08 TIME: 10:59

FULL WEIGHT: 76880 Remarks if needed: _____

EMPTY WT: 36,280 _____

NET WEIGHT: 40,600 _____

Type of conveyance weighed: _____

Vehide license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Ekon Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64235

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/08/2014 11:50:20	outbound	B Bode		Gross	76760 lb
Out	09/08/2014 12:17:49	outbound	B Bode		Tare	35660 lb
					Net	41100 lb
					Tons	20.55

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	20.55	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68409

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address
KAFB-13FF

2. Generator's name and address
KAFB, 5202 Randolph Ave
Kirtland AFB NM 87117

Generator's Telephone no.
505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (~~tons~~) lbs
Non-hazardous petroleum contaminated soil	1	DT	40,600

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Cloth		9/8/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Albert Cavasos Casias Trucking 8101403 505-991-2000		9/8/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Code		9/8/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.08.14 TIME: 13:35

FULL WEIGHT: 72,460 Remarks if needed: _____

EMPTY WT: 35,560 _____

NET WEIGHT: 36,860 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64248

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/08/2014 14:21:49	outbound	B Bode		Gross	72300 lb
Out	09/08/2014 14:49:20	outbound	B Bode		Tare	33640 lb
					Net	38660 lb
					Tons	19.33

Comments

Product		LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	19.33	Tons			SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68419

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB -BFF

2. Generator's name and address: KAFB 5202 Randolph Ave Kirtland AFB NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) (~~tons~~)
Non-hazardous petroleum contaminated soil	1	DT	165 / 36,860

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9/8/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Albert Canasco Casias Trucking 0101403 505-971-2000		9/8/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates: PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bodo		9/8/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.08.14 TIME: 13:25

FULL WEIGHT: 76,200 Remarks if needed: _____

EMPTY WT: 34 860 _____

NET WEIGHT: 41,340 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64247

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/08/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/08/2014 14:21:09	outbound	B Bode		Gross	76040 lb
Out	09/08/2014 14:46:40	outbound	B Bode		Tare	34460 lb
					Net	41580 lb
					Tons	20.79

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S 100	20.79	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

1020

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment No 68418

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address KAFB-BFF

2. Generator's name and address
KAFB, 5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.
505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ 165
Non-hazardous petroleum contaminated soil	1	DT	41340

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

~~Generator's~~ or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9/8/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
MARTY MARTINEZ Casias Trucking 010403 505-991-2000		9/8/14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-landfarm N:34°43.413' W:107°2.153' Elev.:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9/8/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

~~Wednesday~~ 09/09/14
Tuesday

truck #	net weight
522	41,020
522	44,080
620	46,160
522	48,040
620	48,200

228,100 lbs = 114.05 tons

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/09/14 TIME: 07:21

FULL WEIGHT: 79,120 Remarks if needed: _____

EMPTY WT: 33920 _____

NET WEIGHT: 45,200 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment No 68407

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB-BFF		
2. Generator's name and address: KAFB 5202 Randolf Ave Kirtland AFB, NM 87117		Generator's Telephone no.: 505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)		Agent's Telephone no.
4. Proper name and type of waste	5. Containers No. Type	6. Total quantity (yd3) ~~(tons)~~ 165
Non-hazardous Petroleum Contaminated Soil	1 DT	45,200
7. Special handling instructions: bio-farm		

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
VICTORIA K BRANSON		9 / 9 / 14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
Albert Casias Casias Trucking 010403 505-991-2000		9 / 9 / 14

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
		/ /

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 / 9 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 9/09/14 TIME: 10:15

FULL WEIGHT: 81500 Remarks if needed: _____

EMPTY WT: 37700 _____

NET WEIGHT: 43800 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64265

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator
In	09/09/2014 11:08:01	outbound	B Bode
Out	09/09/2014 11:36:29	outbound	B Bode

Inbound

Gross	81320 lb
Tare	36640 lb
Net	44680 lb
Tons	22.34

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.34	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev.:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9/9/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment **№ 68408**

Mailing Address:	❑ Physical Address:	☒ Physical Address:
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB-BFF

2. Generator's name and address	Generator's Telephone no.
KAFB, 5202 Randolph Ave. Kirtland AFB, NM 87117	505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)	**Agent's Telephone no.**

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum			
contaminated soil	1	DT	43800

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	[signature]	09/09/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9/9/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/09/14 TIME: 10:15

FULL WEIGHT: 81540 Remarks if needed: _____

EMPTY WT: 35,260 _____

NET WEIGHT: 46280 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64269

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/09/2014 11:30:10	outbound	B Bode
Out	09/09/2014 12:00:37	outbound	B Bode

Inbound

Gross	81340 lb
Tare	35180 lb
Net	46160 lb
Tons	23.08

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.08	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480'

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 19 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68417

Mailing Address:	☐ Physical Address:	☒ Physical Address:	
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6	
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031	
505/892-2055	SWM #231402	SWM #013230 (sp)	Profile # 103057NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum contaminated soil	1	DT	46280

7. Special handling instructions: bio farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
		/ /

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-Landfarm N: 34°43.413' W: 107°2.153' Elev: 5480'

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9 / 19 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/09/14 TIME: 12:53

FULL WEIGHT: 82,900 Remarks if needed: _____

EMPTY WT: 36,640 _____

NET WEIGHT: 46,260 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 522

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64283

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/09/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# JC522
Container
Driver
Check#
Billing# 0000001
Grid

Volume 20.0

	Time	Scale	Operator	Inbound		
In	09/09/2014 13:48:45	outbound	B Bode		Gross	82420 lb
Out	09/09/2014 14:25:38	outbound	B Bode		Tare	34380 lb
					Net	48040 lb
					Tons	24.02

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	24.02	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

11. Discrepancy indication space		
12. Waste disposal site location coordinates PCS-landfarm N: 34°43.413' W 107°2.153' Elev: 5480		
Received By (printed/typed name): Brian Bode	Signature	Month / Day / Year 9 9 14

522

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68428

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address KAFB-BFF

2. Generator's name and address KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no. 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No. Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum Contaminated Soil	1 DT	46,260

7. Special handling instructions:

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
VICTORIA R BRANSON	Victoria R Branson	9 19 14

9. Transported through (Name, address, telephone no.)

Printed/typed name	Signature	Month / Day / Year
[illegible]	[signature]	9 19 14

10. Transported through (Name, address, telephone no.)

Printed/typed name	Signature	Month / Day / Year

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9 19 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.09.14 TIME: 13:15

FULL WEIGHT: 83,420 Remarks if needed: _____

EMPTY WT: 35,180 _____

NET WEIGHT: 48,240 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: VICTORIA BRANSON Sign: Victoria R Branson

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64286

Customer Name	RHINOENV RHINO ENVIRONMENTAL	Carrier	Casias Trucking		
Ticket Date	09/09/2014	Vehicle#	LC 620	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Route		Check#			
Hauling Ticket#		Billing#	0000001		
Destination		Grid			
PO#					

	Time	Scale	Operator	Inbound		
In	09/09/2014 14:06:34	outbound	B Bode		Gross	83160 lb
Out	09/09/2014 14:43:34	outbound	B Bode		Tare	34960 lb
					Net	48200 lb
					Tons	24.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	24.10	Tons			SANJUAN

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment No 68420

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address KAFB - BFF		
2. Generator's name and address KAFB 5202 Randolph Ave Kirtland AFB, NM 87117		Generator's Telephone no. 505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)		Agent's Telephone no.
4. Proper name and type of waste	5. Containers No. Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous petroleum contaminated soil	1 DT	48,240
7. Special handling instructions: bio-farm		

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment

SPECIAL WASTE SHIPMENT RECORD

U15

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68400

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~
Non-hazardous petroleum contaminated soil	1	DT	165 / 46060

7. Special handling instructions:

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	Cole Crosgrove	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
B. Bode		9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 11:11

FULL WEIGHT: 81,220 Remarks if needed: _____

EMPTY WT: 35,740 _____

NET WEIGHT: 45,480 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64329

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 12:12:27	outbound	B Bode		Gross	81060 lb
Out	09/10/2014 12:42:42	outbound	B Bode		Tare	35220 lb
					Net	45840 lb
					Tons	22.92

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S		100	22.92 Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

11. Discrepancy indication space		
12. Waste disposal site location coordinates PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480		
Received By (printed/typed name): Brian Bode	Signature	Month / Day / Year 9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

623

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68501

Mailing Address:	❑ *Physical Address:*	☒ *Physical Address:*	
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6	
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031	
505/892-2055	SWM #231402	SWM #013230 (sp)	Profile # 103057 NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address	Generator's Telephone no.
KAFB 5202 Randolph Ave Kirtland AFB, NM 87117	505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)	Agent's Telephone no.

4. Proper name and type of waste	5. Containers No. / Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum contaminated soil	1 DT	45480

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	Cole Crosgrove	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 13:24

FULL WEIGHT: 82900 Remarks if needed: _____

EMPTY WT: 35280 _____

NET WEIGHT: 46620 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1020

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64339

Customer Name RHINDENV RHIND ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/10/2014 14:16:46	outbound	B Bode
Out	09/10/2014 14:43:27	outbound	B Bode

Inbound

Gross	81740 lb
Tare	34560 lb
Net	47180 lb
Tons	23.59

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.59	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS: N:34°43.413' W:107°2.153' Elev:5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 620

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738401
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / CASIOS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./ Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Colo Cosgrove	[signature]	9	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Michael Montoya	[signature]	9	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS: N: 34°43.413' W: 107°2.153' Elev: 5480'
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Poole	[signature]	9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 13:28

FULL WEIGHT: 80,600 Remarks if needed: _____

EMPTY WT: 35,240 _____

NET WEIGHT: 45,360 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64340

Customer Name RHINOENV RHIND ENVIRONMENTAL - Carrier Casias Trucking
Ticket Date 09/10/2014 Vehicle# CC 627 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Route Check#
Hauling Ticket# Billing# 0000001
Destination Grid
PO#

	Time	Scale	Operator	Inbound		
In	09/10/2014 14:20:28	outbound	B Bode		Gross	80460 lb
Out	09/10/2014 14:52:00	outbound	B Bode		Tare	35000 lb
					Net	45460 lb
					Tons	22.73

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	22.73	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS 'N:34.43.413' W:107°2.153 Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

6027

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738400
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / CUSIAS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	W/V	1/5340 Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	Cole Cosgrove	9	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Albert Carrasco	Albert Carrasco	9	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS N 34 43.413 W 107° 2.153 Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode	Brian Bode	9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 14:06

FULL WEIGHT: 85,180 Remarks if needed: _____

EMPTY WT: 36,300 _____

NET WEIGHT: 48,880 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64344

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/10/2014 14:56:12	outbound	B Bode
Out	09/10/2014 15:41:24	outbound	B Bode

Inbound

Gross	84800 lb
Tare	35860 lb
Net	48940 lb
Tons	24.47

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	24.47	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS: N 34° 43.413' W 107° 2.153 Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

015

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2738399
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL / Casias	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt/Vol.	40 CY
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	Cole Cosgrove	9	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Jeremy Reporter	Jeremy Reporter	9	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS: N 34°43.413' W 107°2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Duke	Brian Duke	9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 14:14

FULL WEIGHT: 83,280 Remarks if needed: _____

EMPTY WT: 35,220 _____

NET WEIGHT: 48,060 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64348

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 15:09:37	outbound	B Bode		Gross	83120 lb
Out	09/10/2014 15:44:34	outbound	B Bode		Tare	35180 lb
					Net	47940 lb
					Tons	23.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.97	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-Landfarm N:34°43.413' W:107°2.153 EL:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name B. Bode	Signature	Month	Day	Year
			9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738397
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / Casias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty	W/Vol.	Comments 480 LB
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cruzan	Cole Cruzan	9	10	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez	John Hernandez	9	10	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Land-farm N: 34°43.413' W: 107°2.153' EL: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
B. Bale	B. Bale	9	10	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 7:00

FULL WEIGHT: 80 920 Remarks if needed: _____

EMPTY WT: 34,920 _____

NET WEIGHT: 46,000 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68427

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB-BFF

2. Generator's name and address	Generator's Telephone no.
KAFB 5202 Randolph Ave. Kirtland AFB, NM 87117	505-853-3484
3. Authorized Agent's name and mailing address (if different from #2)	**Agent's Telephone no.**

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum contaminated soil	1	DT	46000

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	Cole Crosgrove	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS land farm W: 107° 2.413' W: 107° 2.153' EL: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Poole	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 7:00

FULL WEIGHT: 80 680 Remarks if needed: _____

EMPTY WT: 34,780 _____

NET WEIGHT: 45,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64307

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 08:34:47	outbound	B Bode		Gross	80320 lb
Out	09/10/2014 09:05:48	outbound	B Bode		Tare	37640 lb
					Net	42680 lb
					Tons	21.34

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.34	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space		
12. Waste disposal site location coordinates: PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480		
Received By (printed/typed name): Brian Bode	Signature	Month / Day / Year: 9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

U27

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68424

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*	
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6	
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031	
505/892-2055	SWM #231402	SWM #013230 (sp)	Profile # 103057NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB 5202 Randolph Ave Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2):

Agent's Telephone no.:

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs.
Non-hazardous petroleum contaminated soil	1	DT	45900

7. Special handling instructions: bio-farm.

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	[signature]	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 07:43

FULL WEIGHT: 84,200 Remarks if needed: _____

EMPTY WT: 35940 _____

NET WEIGHT: 48,260 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64309

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator			
In	09/10/2014 08:39:16	outbound	B Bode	Inbound	Gross	94000 lb
Out	09/10/2014 09:19:22	outbound	B Bode		Tare	37800 lb
					Net	46200 lb
					Tons	23.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.10	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-land farm N: 34° 43.413' W: 107° 2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 / 10 / 14

615

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68425

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB - BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non hazardous petroleum contaminated soil	1	DT	48260

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	Cole Crosgrove	9/10/14

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
[illegible]	[illegible]	9/10/[illegible]

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name, address, telephone no.	Signature	Month / Day / Year

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-land farm N: 34°43.413' W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 08:10

FULL WEIGHT: 82,780 Remarks if needed: _____

EMPTY WT: 35,620 _____

NET WEIGHT: 47,160 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1023

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 64310

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 09:02:23	outbound	B Bode		Gross	82620 lb*
Out	09/10/2014 09:29:30	outbound	B Bode		Tare	35740 lb
			* Manual Weight		Net	46880 lb
					Tons	23.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.44	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS landfarm N: 34° 43.413' W: 107° 2.153' Elev: 5480

Received By (printed/typed name): Brian Bode

Signature

Month / Day / Year
9 10 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

SPECIAL WASTE SHIPMENT RECORD

623

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment No 68426

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address KAFB - BFF

2. Generator's name and address KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no. 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~
Non-hazardous petroleum contaminated soil	1	DT	42160 LCS

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove		9 / 10 / 14

9. Transporter 1 (Acknowledgment of receipt of materials)

Printed/typed name and address & telephone no.	Signature	Month / Day / Year
[illegible]		9 / 10 / 14

10. Transporter 2 (Acknowledgment of receipt of materials)

Printed/typed name and address & telephone no.	Signature	Month / Day / Year

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS: landfarm N: 34° 43.413' W: 107° 2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Rodle		9 / 10 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 10:35

FULL WEIGHT: 84,620 Remarks if needed: _____

EMPTY WT: 36,200 _____

NET WEIGHT: 48,420 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 64321

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 11:29:52	outbound	B Bode		Gross	84380 lb
Out	09/10/2014 12:00:08	outbound	B Bode		Tare	35280 lb
					Net	49100 lb
					Tons	24.55

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	24.55	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name): B. Bode

Signature

Month / Day / Year 9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

620

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment № 68421

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057 NM

1. Generator's work site name and address: KAFB-BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum contaminated soil	1	DT	48420

7. **Special handling instructions:** bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	[signature]	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-landfarm N: 34°43.413' W: 107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
B. Bode	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 10:40

FULL WEIGHT: 83,360 Remarks if needed: _____

EMPTY WT: 37,640 _____

NET WEIGHT: 45720 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Cosgrove Sign: Cole Cosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64322

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/10/2014 11:33:50	outbound	B Bode		Gross	83180 lb
Out	09/10/2014 12:05:30	outbound	B Bode		Tare	35240 lb
					Net	47940 lb
					Tons	23.97

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.97	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

6

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS Landfarm N:34°43.413' W:107°2.153' Elev.5480

Received By (printed/typed name):	Signature	Month / Day / Year
B. Bode		9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

627

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment **№ 68423**

Mailing Address:	☐ *Physical Address:*	☒ *Physical Address:*
P.O. Box 15700	33rd St. & Northern Blvd.	1600 W. Highway 6
Rio Rancho, NM 87174	Rio Rancho, NM 87144	Los Lunas, NM 87031
505/892-2055	SWM #231402	SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB-BFF

2. Generator's name and address: KAFB 5202 Randolph Ave. Kirtland AFB, NM 87117
   Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)
   Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~ lbs
Non-hazardous petroleum contaminated soil	1	DT	45720

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

   I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Cole Crosgrove	[signature]	9/10/14

[redacted]

11. Discrepancy indication space

12. Waste disposal site location coordinates
    PCS Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
B. Bode	[signature]	9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

615

SCALE WEIGHT TICKET

DATE: 09/10/14 TIME: 10:53

FULL WEIGHT: 83,860 Remarks if needed: _____

EMPTY WT: 37,800 _____

NET WEIGHT: 46,060 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

PASSENGER: ENTER ____ IN VEHICLE/OUT OF VEHICLE ____
EXIT ____ IN VEHICLE/OUT OF VEHICLE ____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA RE IONAL LANDFILL
1600 HIGHWAY C
LOS LUNAS, NM, 87507 Ph: 505-917-6232

Original
Ticket# 44323

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/10/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

	Time	Scale	Operator	Inbound		
In	09/10/2014 11:38:09	outbound	B Bode		Gross	83500 lb
Out	09/10/2014 12:36:29	outbound	B Bode		Tare	36300 lb
					Net	47200 lb
					Tons	23.60

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.60	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS Landfarm N: 34°43.413' W: 107°2.153' Elev. 5480

Received By (printed/typed name):	Signature	Month / Day / Year
B. Bode		9/10/14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 10:36

FULL WEIGHT: 81,360 Remarks if needed: _____

EMPTY WT: 35,560 _____

NET WEIGHT: 45,800 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64381

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/11/2014 11:23:56	outbound	B Bode
Out	09/11/2014 12:58:16	outbound	dbaca

Inbound

Gross	81160 lb
Tare	35300 lb
Net	45860 lb
Tons	22.93

Comments

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	S	100	22.93	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 015

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	City, State, Zip Code	WMNA	2738385
		B. State Generator's ID	NA

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL / CASICS	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	W/B Vol.	4580 Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	dk Cgre	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N: 34°43.413' W: 107°2.153' Cell 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bade		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 10:43

FULL WEIGHT: 81,840 Remarks if needed: _____

EMPTY WT: 35,260 _____

NET WEIGHT: 46,580 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64383

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 11:39:54	outbound	B Bode		Gross	81660 lb
Out	09/11/2014 12:11:21	outbound	B Bode		Tare	35580 lb
					Net	46080 lb
					Tons	23.04

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.04	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 020

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	2738386
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL / Casias	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID	013230
		H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers: No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	W/Vol.	4/6580
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Crosgrove	Cole Crosgrove	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Marty Martinez	Marty Martinez	9	11	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS-Landfarm N: 34°43.413' W: 107°2.153' Cell 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bale	Brian Bale	9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 12:37

FULL WEIGHT: 78,700 Remarks if needed: _____

EMPTY WT: 34,800 _____

NET WEIGHT: 43,900 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64395

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/11/2014 13:34:08	outbound	dbaca
Out	09/11/2014 14:01:52	outbound	dbaca

Inbound

Gross	78520 lb
Tare	34740 lb
Net	43780 lb
Tons	21.89

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	21.89	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal SOZI FARM- N:34°43.413' W:107°2.153 ELEV: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 023

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (if different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738391
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / Casias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	W/V Vol.	4 Cubic Yd
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

1S. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Crossgrove	Cole Crossgrove	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez	John Hernandez	9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal SOIL FARM: N 34°43.015' W 107°2.151' ELEV: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Anny Elam		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 12:49

FULL WEIGHT: 76,360 Remarks if needed: _____

EMPTY WT: 35,760 _____

NET WEIGHT: 40,600 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64396

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/11/2014 13:36:32	outbound	dbaca
Out	09/11/2014 14:07:11	outbound	dbaca

Inbound

Gross	76200 lb
Tare	35060 lb
Net	41140 lb
Tons	20.57

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	20.57	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

ORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal SOIL FARM - N:34° 43.413' W:107° 2.153 ELEV: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 027

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738390
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL (CUBAS)
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	T	17600
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt / Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Colt Cosgrove		9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Albert Cawood		9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal SOIL FARM - N.34° 43.413' W.107° 2.153' ELEV. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.11.14 TIME: 14:10

FULL WEIGHT: 81,360 Remarks if needed: _____

EMPTY WT: 35,300 _____

NET WEIGHT: 46,060 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Cosgrove Sign: Cole Cosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64403

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 15:00:05	outbound	dbaca		Gross	81120 lb
Out	09/11/2014 15:53:20	outbound	dbaca		Tare	34920 lb
					Net	46200 lb
					Tons	23.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.10	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal 5021 FARM – N: 34° 43.413' W: 107° 2.153 ELEV: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

61S

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117 4. Generator's Phone 505-853-3484	Generator's Site Address (If different than mailing): City, State, Zip Code	A. Manifest Number WMNA 2738392 B. State Generator's ID NA
5. Transporter 1 Company Name RHINO ENVIRONMENTAL	6. US EPA ID Number NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name Transporter 2 Company Name	8. US EPA ID Number US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	12	46060
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
Additional Description	Cell Level Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	Cole Cosgrove	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal 5021 SAm - N 34° 43.413' W 107° 2.153' [illegible]
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 13:29

FULL WEIGHT: ~~80~~ 80,760 Remarks if needed: _____

EMPTY WT: 35,580 _____

NET WEIGHT: ~~S.C~~ 45180 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64401

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator
In	09/11/2014 14:18:09	outbound	dbaca
Out	09/11/2014 14:52:45	outbound	dbaca

Inbound

Gross	80600 lb
Tare	34920 lb
Net	45680 lb
Tons	22.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSpilPet-Tons-Cont. S	100	22.84	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal 5021 FARM- N:34° 43.413' W:107° 2.153 ELEV:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT — NON-HAZARDOUS MANIFEST

620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117

Generator's Site Address (If different than mailing): City, State, Zip Code

4. Generator's Phone 505-853-3484

A. Manifest Number WMNA 2738389

B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL / Cosios	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	[illegible]	45180
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number — EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Coogan	[signature]	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MARTY MARTINEZ	[signature]	9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal Soil Farm - N:34°43.413' W:106°2.153 Cell 780
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca	[signature]	9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY — Blue- GENERATOR #2 COPY — Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY — Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 07:19

FULL WEIGHT: 78,800 Remarks if needed: _____

EMPTY WT: 35,060 _____

NET WEIGHT: 43,740 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: [redacted] 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [redacted]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64357

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 08:13:15	outbound	B Bode		Gross	78640 lb
Out	09/11/2014 08:43:10	outbound	B Bode		Tare	35480 lb
					Net	43160 lb
					Tons	21.58

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	21.58	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bode		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 623

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address: KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	Generator's Site Address (If different than mailing): City, State, Zip Code	A. Manifest Number WMNA 2738393
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name: RHINO ENVIRONMENTAL / Casias	6. US EPA ID Number: NA	C. State Transporter's ID: 0101403
		D. Transporter's Phone: 505-991-2000
7. Transporter 2 Company Name: Transporter 2 Company Name	8. US EPA ID Number: US EPA ID Number	E. State Transporter's ID: State Transporter ID
		F. Transporter's Phone: Transporter 2 Phone
9. Designated Facility Name and Site Address: VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	10. US EPA ID Number: NA	G. State Facility ID: 013230
		H. State Facility Phone: 505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		/	/	/

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez		9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Conf Form N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bile		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 07:27

FULL WEIGHT: 81,620 Remarks if needed: _____

EMPTY WT: 35,280 _____

NET WEIGHT: 46,340 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64358

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 08:17:46	outbound	B Bode		Gross	81440 lb
Out	09/11/2014 08:49:02	outbound	B Bode		Tare	36480 lb
					Net	44960 lb
					Tons	22.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.48	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-Landfarm N:34°43.413' W:107°2.153' EL:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name B. Bode	Signature	Month	Day	Year
			9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 027

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738394
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / Cosias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Oscar Canasco		9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-Landfarm N 34°43.413' W 107°2.153' EL 5486
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
B. Bode		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 07:39

FULL WEIGHT: 80,520 Remarks if needed: _____

EMPTY WT: 35,300 _____

NET WEIGHT: 45,220 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6832

Original
Ticket# 64360

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 08:34:44	outbound	B Bode		Gross	80260 lb
Out	09/11/2014 09:11:54	outbound	B Bode		Tare	35260 lb
					Net	45000 lb
					Tons	22.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.50	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413'W:107°2.153' Elev.5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month	Day	Year
			9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

6020

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738395
B. State Generator's ID NA

5. Transporter 1 Company Name
RHINO ENVIRONMENTAL / Casias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name
8. US EPA ID Number
US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-landfarm N: 34°43.413' W: 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 07:48

FULL WEIGHT: 82,000 Remarks if needed: _____

EMPTY WT: 35,660 _____

NET WEIGHT: 46,340 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64361

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 08:38:17	outbound	B Bode		Gross	81640 lb
Out	09/11/2014 09:23:37	outbound	B Bode		Tare	35560 lb
					Net	46080 lb
					Tons	23.04

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.04	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month / Day / Year	
FACILITY	19. Certificate of Final Treatment/Disposal: PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name Brian Bode	Signature	Month 9	Day 11 Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

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WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738396
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / CASIAS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./ Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS landfarm N 34°43.413' W 107°2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Bale		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 10:05

FULL WEIGHT: 82180 Remarks if needed: _____

EMPTY WT: 35,480 _____

NET WEIGHT: 46,700 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507

Original
Ticket# 64377

Ph: 505-917-6232

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 10:50:33	outbound	B Bode		Gross	82020 lb
Out	09/11/2014 11:19:48	outbound	B Bode		Tare	34800 lb
					Net	47220 lb
					Tons	23.61

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	23.61	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS-landfarm N:34°43.413' W:107°2.153' Elev:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name Brian Bode	Signature	Month 9	Day 11	Year 14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

U23

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738388
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / CASINAS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	W/V	16900
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Crossgrove		9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez		9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS-landfarm 1.34°43.413' W 107°2.53' 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Brian Poole		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

U

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

629

SCALE WEIGHT TICKET

DATE: 09/11/14 TIME: 10:20

FULL WEIGHT: 81,880 Remarks if needed: _____

EMPTY WT: 36,480 _____

NET WEIGHT: 45400 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1027

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64378

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/11/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/11/2014 10:58:37	outbound	B Bode		Gross	81740 lb
Out	09/11/2014 11:27:11	outbound	B Bode		Tare	35760 lb
					Net	45980 lb
					Tons	22.99

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	22.99	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal: PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
B. Bode		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

027

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738384
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL 1CAS1C15
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	15400
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	C. Cosgrove	9	11	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Abel Canas	Abel Cs	9	11	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal DCS-landfarm N 34°43.413' W 107°2.153' Elev 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
B. Bole		9	11	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Friday 09/12/14

truck #	net ~~weight~~
623	43,280
627	45,060
615	44,340 ~~45,320~~
620	45,320
623	48,500
627	46,000
620	17,740
615	21,120

313,760 lbs = 156.88 tons

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: 07:17

FULL WEIGHT: 78,700 Remarks if needed: _____

EMPTY WT: 35,380 _____

NET WEIGHT: 43,320 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

NON-HAZARDOUS MANIFEST 623

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738380
B. State Generator's ID NA

5. Transporter 1 Company Name
RHINO ENVIRONMENTAL / CASIAS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name
8. US EPA ID Number
US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	1 Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Hernandez		9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal SOIL FARM: N 34° 43.413' W 107° 2.157' ELEV. 5080
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca		9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: 07:20

FULL WEIGHT: 81,080 Remarks if needed: _____

EMPTY WT: 35,680 _____

NET WEIGHT: 45,400 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1627

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

027

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738381
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / Casias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	4/ Total Qty	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
				14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Albert Carrasco		9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS N:34° 43.413' W:107° 2.153' Elev:4780
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca		9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: ~~07:38~~

FULL WEIGHT: 83520 ~~82100~~ Remarks if needed: _____

EMPTY WT: 34860 _____

NET WEIGHT: 48,660 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA	2738383
4. Generator's Phone 505-853-3484		B. State Generator's ID NA	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	0101403
RHINO ENVIRONMENTAL / CASIAS	NA	D. Transporter's Phone	505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	State Transporter ID
Transporter 2 Company Name	US EPA ID Number	F. Transporter's Phone	Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	013230
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	H. State Facility Phone	505-892-2055

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	40160	Wt/Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Additional Description	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	12	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
MARTY MARTINEZ	[signature]	12	12	14
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal RCS: N: 34° 43.413' W107° 2.157' ELEV. 5490

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
JIMMY BACA	[signature]	12	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: 07:38

FULL WEIGHT: 82,100 Remarks if needed: _____

EMPTY WT: 34,840 _____

NET WEIGHT: 47,260 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 1615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738382
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / LOS115
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		7	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Shane Pedrick		9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS - N. 34° 43.411' W. 107° 2.43' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca		9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: 09:57

FULL WEIGHT: 83,760 Remarks if needed: _____

EMPTY WT: ~~43,280~~ 35,280 _____

NET WEIGHT: 48,480 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 623

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: [signature]

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64421

stomer Name RHINOENV RHINO ENVIRONMENTAL
cket Date 09/12/2014
yment Type Credit Account
nual Ticket#
ute
uling Ticket#
stination
#

Carrier Casias Trucking
Vehicle# CC 623
Container
Driver
Check#
Billing# 0000001
Grid

Volume

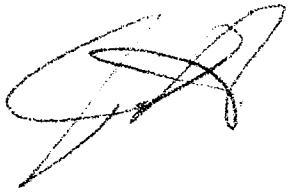
	Time	Scale	Operator	Inbound		
	09/12/2014 10:41:17	outbound	dbaca		Gross	83580 lb
t	09/12/2014 11:09:29	outbound	dbaca		Tare	35080 lb
					Net	48500 lb
					Tons	24.25

mments

oduct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
ContSoilPet-Tons-Cont. S	100	24.25	Tons				SANJUAN

Total Tax
Total Ticket

ver's Signature



403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PLS- N: 34° 43.413' W: 107° 2.153' Elev: 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		9	12	14

White- TREATMENT/STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 623

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738376
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / CASILS
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt./ Vol.	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
AdditionalDescription

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	1	10	24

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jeb Hernandez	[signature]	9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PLS- N: 34° 43.913' W: 107° 2.153' Elev. 5450
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca	[signature]	9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/12/14 TIME: 10:04

FULL WEIGHT: 81,900 Remarks if needed: _____

EMPTY WT: 35,880 _____

NET WEIGHT: 46,026 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 027

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scot Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64423

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/12/2014 10:49:52	outbound	dbaca		Gross	81740 lb
Out	09/12/2014 11:20:20	outbound	dbaca		Tare	35740 lb
					Net	46000 lb
					Tons	23.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont. S	100	23.00	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

ORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS - N: 34° 43.413' W: 107° 2.153' ELEV: 5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST 027

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738377
B. State Generator's ID NA

5. Transporter 1 Company Name
RHINO ENVIRONMENTAL / CASIAS

6. US EPA ID Number NA

C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name
Transporter 2 Company Name

8. US EPA ID Number
US EPA ID Number

E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM

10. US EPA ID Number NA

G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total 4 tons	Wt/Vol	Comments
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[signature]	9	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Albert Carrasco	[signature]	9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS - N: 34° 43.113' W: 107° 2.153' Elev: 5450
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca	[signature]	9	17	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
1 Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.12.14 TIME: 10:38

FULL WEIGHT: 52,420 Remarks if needed: _____

EMPTY WT: 38,060 _____

NET WEIGHT: 14,360 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 620

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64426

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 620
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/12/2014 11:26:48	outbound	dbaca		Gross	52300 lb
Out	09/12/2014 12:14:09	outbound	dbaca		Tare	34560 lb
					Net	17740 lb
					Tons	8.87

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ContSoilPet-Tons-Cont.	5	100	8.87	Tons			SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

PORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS - N. 34° 43.413' W. 107° 2.153' Elev. 5480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
DANNY BACA		9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST 620

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
KAFB 5202 RANDOLPH AVE KIRTLAND AFB NM 871117	City, State, Zip Code	WMNA 2738378
4. Generator's Phone 505-853-3484		B. State Generator's ID NA

5. Transporter 1 Company Name	6. US EPA ID Number	
RHINO ENVIRONMENTAL 1casias	NA	C. State Transporter's ID 0101403 D. Transporter's Phone 505-991-2000
7. Transporter 2 Company Name	8. US EPA ID Number	
Transporter 2 Company Name	US EPA ID Number	E. State Transporter's ID State Transporter ID F. Transporter's Phone Transporter 2 Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
VALENCIA REGIONAL LANDFILL 1600 W HWY 6 LOS LUNAS NM	NA	G. State Facility ID 013230 H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	1/6	14360
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./Vol.	Comments

J. Additional Descriptions for Materials Listed Above

Additional Description

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information

Special Handling Instructions

Purchase Order # Purchase Order Number   EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cosgrove	[signature]	9	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[signature]	9	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal [illegible]

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca	[signature]	9	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY   Blue- GENERATOR #2 COPY   Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY   Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09.12.14 TIME: 10:45

FULL WEIGHT: 56,560 Remarks if needed: _____

EMPTY WT: 35,920 _____

NET WEIGHT: 20,640 _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 6615

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Cole Crosgrove Sign: Cole Crosgrove

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64429

Customer Name RHINOENV RHINO ENVIRONMENTAL
Ticket Date 09/12/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# LC 615
Container
Driver
Check#
Billing# 0000001
Grid

Volume

Time	Scale	Operator	Inbound		
09/12/2014 11:39:37	outbound	dbaca		Gross	56340 lb
09/12/2014 12:29:29	outbound	dbaca		Tare	35220 lb
				Net	21120 lb
				Tons	10.56

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	10.56	Tons				SANJUAN

Total Tax
Total Ticket

Driver's Signature

403WM

PORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal PCS- N:34°43.413' W:107°2.158' ELEV:5480 I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year
	DANNY BACA		9	12	14

White- TREATMENT/STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

615

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NA	Manifest Doc No. Number	2. Page 1 of 1	

3. Generator's Mailing Address:
KAFB
5202 RANDOLPH AVE
KIRTLAND AFB NM 871117
4. Generator's Phone 505-853-3484

Generator's Site Address (If different than mailing):
City, State, Zip Code

A. Manifest Number WMNA 2738379
B. State Generator's ID NA

5. Transporter 1 Company Name RHINO ENVIRONMENTAL / Casias
6. US EPA ID Number NA
C. State Transporter's ID 0101403
D. Transporter's Phone 505-991-2000

7. Transporter 2 Company Name Transporter 2 Company Name
8. US EPA ID Number US EPA ID Number
E. State Transporter's ID State Transporter ID
F. Transporter's Phone Transporter 2 Phone

9. Designated Facility Name and Site Address
VALENCIA REGIONAL LANDFILL
1600 W HWY 6
LOS LUNAS NM
10. US EPA ID Number NA
G. State Facility ID 013230
H. State Facility Phone 505-892-2055

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON-HAZARDOUS PETROLEUM CONTAMNINATED SOIL WM Profile # 103057NM	1	DT	Total Qty.	Wt/Vol	20670
b. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
c. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments
d. Waste Name WM Profile # WM Profile Number	No.	Type	Total Qty.	Wt./ Vol.	Comments

J. Additional Descriptions for Materials Listed Above
Additional Description

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
Special Handling Instructions

Purchase Order # Purchase Order Number
EMERGENCY CONTACT / PHONE NO.: Emergency Contact

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Cole Cagnon		4	12	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jerome Herman		4	12	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal PCS- N: 34° 43.413' W: 107° 2.153' Elev.: 480
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Danny Baca		4	12	14

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

DLA DISPOSITON SERVICES FIELD ACTIVITY KIRTLAND-VCK
(FORMERLY DRMO KIRTLAND)
BLDG 1025 (Westside)
5050 RANDOLPH AVE S.E.
KIRTLAND AFB, NM 87117
505-846-6396 or 505-853-2269

SCALE WEIGHT TICKET

DATE: 09/17/14 TIME: 07:22

FULL WEIGHT: 52,420 Remarks if needed: _____

EMPTY WT: 35,560 _____

NET WEIGHT: 16,860 lbs _____

Type of conveyance weighed: _____

Vehicle license plate if needed: 6027

DRIVER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

PASSENGER: ENTER _____ IN VEHICLE/OUT OF VEHICLE _____
EXIT _____ IN VEHICLE/OUT OF VEHICLE _____

WEIGHMASTER: Print: Scott Clark Sign: _____

Witness/Customer Print: _____ Sign: _____

For Scrap weight if needed: Contract # _____

SCL/SCT: _____ Material: _____

Substitute for DRMS Form 146
Make copies as needed

WASTE MANAGEMENT

VALENCIA REGIONAL LANDFILL
1600 HIGHWAY 6
LOS LUNAS, NM, 87507
Ph: 505-917-6232

Original
Ticket# 64509

Customer Name RHINDENV RHINO ENVIRONMENTAL
Ticket Date 09/17/2014
Payment Type Credit Account
Manual Ticket#
Route
Hauling Ticket#
Destination
PO#

Carrier Casias Trucking
Vehicle# CC 627
Container
Driver
Check#
Billing# 0000001
Grid

Volume

	Time	Scale	Operator	Inbound		
In	09/17/2014 09:32:04	outbound	B Bode		Gross	52420 lb
Out	09/17/2014 10:22:24	outbound	B Bode		Tare	35760 lb
					Net	16660 lb
					Tons	8.33

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ContSoilPet-Tons-Cont. S	100	8.33	Tons				SANJUAN

Driver's Signature

Total Tax
Total Ticket

403WM

11. Discrepancy indication space

12. Waste disposal site location coordinates

PCS-Landfarm N:34°43.413' W:107°2.153' Elev: 5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Bode		9 / 17 / 14

White/GEN Yellow/CUSTOMER Pink/LANDFILL

627

SPECIAL WASTE SHIPMENT RECORD

Rio Rancho Sanitary Landfill / Valencia Regional Landfill & Recycling Facility Shipment **№ 68399**

Mailing Address:
P.O. Box 15700
Rio Rancho, NM 87174
505/892-2055

☐ *Physical Address:*
33rd St. & Northern Blvd.
Rio Rancho, NM 87144
SWM #231402

☒ *Physical Address:*
1600 W. Highway 6
Los Lunas, NM 87031
SWM #013230 (sp)

Profile # 103057NM

1. Generator's work site name and address: KAFB-BFF

2. Generator's name and address: KAFB
5202 Randolph Ave
Kirtland AFB, NM 87117

Generator's Telephone no.: 505-853-3484

3. Authorized Agent's name and mailing address (if different from #2)

Agent's Telephone no.

4. Proper name and type of waste	5. Containers No.	Type	6. Total quantity (yd3) ~~(tons)~~
Non-hazardous petroleum contaminated soil	1	DT	165 168.60

7. Special handling instructions: bio-farm

8. GENERATOR'S OR AUTHORIZED AGENT'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations.

I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator's or Authorized Agent's printed/typed name	Signature	Month / Day / Year
Scott Clark		9/17/14

9. Transporter(s) (Name, address, telephone no.) acknowledgement of receipt of materials

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
[illegible]		

10. Transporter(s) (Name, address, telephone no.) acknowledgement of receipt of materials

Printed/typed name, address, telephone no.	Signature	Month / Day / Year
[illegible]		9/17/14

11. Discrepancy indication space

12. Waste disposal site location coordinates
PCS-Landfarm N:34°43.413' W:107°2.153' Elev:5480

Received By (printed/typed name):	Signature	Month / Day / Year
Brian Locke		9/17/14

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APPENDIX E

2014 Confirmation and Step-Out Sample Analytical Results

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results - Backfill

	LOCATION CODE		FFOR-BACKFILL-01				
	SAMPLE NO		FFOR-BF-0001				
	SAMPLE DATE		20-Jun-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		0-0 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	ARSENIC	3.9	ND	U	2.5	1.6	1.6
	BARIUM	15,600	80		0.5	0.48	0.48
	CADMIUM	70.3	ND	U	0.5	0.25	0.25
	CHROMIUM	180,000[c]	4.8		1.5	0.84	0.84
	LEAD	400	3.9		1.2	0.92	0.92
	SELENIUM	391	ND	U	12	6.7	6.7
	SILVER	391	ND	U	1.2	0.48	0.48
	HEXAVALENT CHROMIUM (Method SW7196A)	2.97	ND	U	2	0.64	0.64
	MERCURY (Method SW7471)	15.6[d]	ND	U	0.033	0.0056	0.0056
TPH (mg/kg) Method 8015D	DIESEL RANGE ORGANICS (DRO)	1,000[e]	ND	U	10	5.5	5.5
	GASOLINE RANGE ORGANICS (GRO)		ND	U	7.5	4.6	4.6
	MOTOR OIL RANGE ORGANICS (MRO)		ND	U	50	50	50
SVOCs (mg/kg) Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.2	0.058	0.058
	1,2-DICHLOROBENZENE	2,310	ND	U	0.2	0.039	0.039
	1,3-DICHLOROBENZENE	NE	ND	U	0.2	0.056	0.056
	1,4-DICHLOROBENZENE	31.7	ND	U	0.2	0.062	0.062
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.2	0.044	0.044
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.2	0.055	0.055
	2,4-DICHLOROPHENOL	183	ND	U	0.4	0.061	0.061
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.3	0.059	0.059
	2,4-DINITROPHENOL	122	ND	U	0.5	0.07	0.07
	2,4-DINITROTOLUENE	15.7	ND	U	0.5	0.073	0.073
	2,6-DINITROTOLUENE	61.1	ND	U	0.5	0.059	0.059
	2-CHLORONAPHTHALENE	6,260	ND	U	0.25	0.057	0.057
	2-CHLOROPHENOL	391	ND	U	0.2	0.062	0.062
	2-METHYLNAPHTHALENE	230	ND	U	0.2	0.059	0.059
	2-METHYLPHENOL	3,100	ND	U	0.5	0.057	0.057
	2-NITROANILINE	610	ND	U	0.2	0.048	0.048
	2-NITROPHENOL	NE	ND	U	0.2	0.055	0.055
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.25	0.055	0.055
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.2	0.067	0.067
	3-NITROANILINE	NE	ND	U	0.2	0.058	0.058
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.5	0.041	0.041
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.2	0.05	0.05
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.5	0.053	0.053
	4-CHLOROANILINE	2.4	ND	U	0.5	0.053	0.053
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.2	0.057	0.057
	4-NITROANILINE	24	ND	U	0.4	0.048	0.048
	4-NITROPHENOL	NE	ND	U	0.25	0.061	0.061
	ACENAPHTHENE	3,440	ND	U	0.2	0.048	0.048
	ACENAPHTHYLENE	NE	ND	U	0.2	0.049	0.049
	ANTHRACENE	17,200	ND	U	0.2	0.043	0.043
	BENZENAMINE	85	ND	U	0.2	0.059	0.059
	BENZO(A)ANTHRACENE	1.48	ND	U	0.2	0.054	0.054
	BENZO(A)PYRENE	0.148	ND	U	0.2	0.06	0.06
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.2	0.068	0.068
	BENZO(GHI)PERYLENE	NE	ND	U	0.2	0.06	0.06
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.2	0.076	0.076
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.2	0.067	0.067
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.2	0.08	0.08
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.2	0.037	0.037
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.5	0.067	0.067
	BUTYL BENZYL PHTHALATE	260	ND	U	0.2	0.042	0.042
	CARBAZOLE	NE	ND	U	0.2	0.045	0.045
	CHRYSENE	148	ND	U	0.2	0.051	0.051
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.2	0.059	0.059
	DIBENZOFURAN	78	ND	U	0.2	0.067	0.067
	DIETHYL PHTHALATE	48,900	ND	U	0.2	0.045	0.045
	DIMETHYL PHTHALATE	611,000	ND	U	0.2	0.055	0.055
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.5	0.045	0.045
	DI-N-OCTYL PHTHALATE	610	ND	U	0.4	0.25	0.25
	FLUORANTHENE	2,290	ND	U	0.2	0.045	0.045
	FLUORENE	2,290	ND	U	0.2	0.058	0.058
	HEXACHLOROBENZENE	3.04	ND	U	0.2	0.054	0.054
	HEXACHLOROBUTADIENE	61.1	ND	U	0.2	0.048	0.048
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.2	0.064	0.064

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results - Backfill

	LOCATION CODE		FFOR-BACKFILL-01				
	SAMPLE NO		FFOR-BF-0001				
	SAMPLE DATE		20-Jun-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		0-0 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) Method 8270C	HEXACHLOROETHANE	42.8	ND	U	0.2	0.07	0.07
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.2	0.066	0.066
	ISOPHORONE	5,120	ND	U	0.5	0.065	0.065
	NAPHTHALENE	43	ND	U	0.2	0.047	0.047
	NITROBENZENE	53.5	ND	U	0.5	0.056	0.056
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.2	0.075	0.075
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.2	0.066	0.066
	N-NITROSODIPHENYLAMINE	993	ND	U	0.2	0.058	0.058
	PENTACHLOROPHENOL	8.94	ND	U	0.4	0.081	0.081
	PHENANTHRENE	1,830	ND	U	0.2	0.036	0.036
	PHENOL	18,300	ND	U	0.2	0.058	0.058
	PYRENE	1,720	ND	U	0.2	0.054	0.054
	PYRIDINE	78	ND	U	0.5	0.055	0.055
PAHs (mg/kg) Method 8270C SIM	1-METHYL NAPHTHALENE	16	ND	U	0.02	0.0056	0.0056
	2-METHYLNAPHTHALENE	230	ND	U	0.02	0.0059	0.0059
	ACENAPHTHENE	3,440	ND	U	0.02	0.0063	0.0063
	ACENAPHTHYLENE	NE	ND	U	0.02	0.006	0.006
	ANTHRACENE	17,200	ND	U	0.02	0.006	0.006
	BENZO(A)ANTHRACENE	1.48	ND	U	0.02	0.0051	0.0051
	BENZO(A)PYRENE	0.148	ND	U	0.02	0.0076	0.0076
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.02	0.0065	0.0065
	BENZO(GHI)PERYLENE	NE	ND	U	0.02	0.0058	0.0058
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.02	0.0081	0.0081
	CHRYSENE	148	ND	U	0.02	0.0036	0.0036
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.02	0.0073	0.0073
	FLUORANTHENE	2,290	ND	U	0.02	0.0062	0.0062
	FLUORENE	2,290	ND	U	0.02	0.0072	0.0072
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.02	0.0068	0.0068
	NAPHTHALENE	43	ND	U	0.02	0.0056	0.0056
	PHENANTHRENE	1,830	ND	U	0.02	0.0057	0.0057
	PYRENE	1,720	ND	U	0.02	0.0049	0.0049
VOCs (mg/kg) Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.000758	0.000379	0.000379
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.000758	0.000379	0.000379
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.000758	0.000379	0.000379
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.000758	0.000379	0.000379
	1,1-DICHLOROETHANE	64.5	ND	U	0.000758	0.000379	0.000379
	1,1-DICHLOROETHENE	449	ND	U	0.000758	0.000379	0.000379
	1,1-DICHLOROPROPENE	NE	ND	U	0.000758	0.000379	0.000379
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.000758	0.000379	0.000379
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.000758	0.000379	0.000379
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.000758	0.000379	0.000379
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.000758	0.000379	0.000379
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.000758	0.000379	0.000379
	1,2-DIBROMOETHANE	0.588	ND	U	0.000758	0.000379	0.000379
	1,2-DICHLOROBENZENE	2,310	ND	U	0.000758	0.000379	0.000379
	1,2-DICHLOROETHANE	7.89	ND	U	0.000758	0.000379	0.000379
	1,2-DICHLOROPROPANE	15.2	ND	U	0.000758	0.000379	0.000379
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.000758	0.000379	0.000379
	1,3-DICHLOROBENZENE	NE	ND	U	0.000758	0.000379	0.000379
	1,3-DICHLOROPROPANE	1,600	ND	U	0.000758	0.000379	0.000379
	1,4-DICHLOROBENZENE	31.7	ND	U	0.000758	0.000379	0.000379
	2,2-DICHLOROPROPANE	NE	ND	U	0.000758	0.000379	0.000379
	2-BUTANONE	37,100	ND	U	0.00379	0.00379	0.00379
	2-CHLOROTOLUENE	1,560	ND	U	0.000758	0.000379	0.000379
	2-HEXANONE	210	ND	U	0.00379	0.00379	0.00379
	4-CHLOROTOLUENE	1,600	ND	U	0.000758	0.000379	0.000379
	4-METHYL-2-PENTANONE	5,821	ND	U	0.00379	0.00379	0.00379
	ACETONE	66,600	ND	U	0.00379	0.00379	0.00379
	BENZENE	15.4	ND	U	0.000758	0.000379	0.000379
	BROMOBENZENE	300	ND	U	0.000758	0.000379	0.000379
	BROMOCHLOROMETHANE	160	ND	U	0.000758	0.000379	0.000379
	BROMODICHLOROMETHANE	5.41	ND	U	0.000758	0.000379	0.000379
	BROMOFORM	616	ND	U	0.000758	0.000379	0.000379
	BROMOMETHANE	16.5	ND	U	0.000758	0.000379	0.000379
	CARBON DISULFIDE	1,530	ND	U	0.00379	0.00379	0.00379
	CARBON TETRACHLORIDE	10.8	ND	U	0.000758	0.000379	0.000379

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results - Backfill

	LOCATION CODE		FFOR-BACKFILL-01				
	SAMPLE NO		FFOR-BF-0001				
	SAMPLE DATE		20-Jun-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		0-0 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) Method 8260B	CHLOROBENZENE	376	ND	U	0.000758	0.000379	0.000379
	CHLOROETHANE	29,800	ND	U	0.000758	0.000379	0.000379
	CHLOROFORM	5.86	ND	U	0.000758	0.000379	0.000379
	CHLOROMETHANE	275	ND	U	0.000758	0.000379	0.000379
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.000758	0.000379	0.000379
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.000758	0.000379	0.000379
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.000758	0.000379	0.000379
	DIBROMOMETHANE	51.6	ND	U	0.000758	0.000379	0.000379
	DICHLORODIFLUOROMETHANE	168	ND	U	0.000758	0.000379	0.000379
	ETHYLBENZENE	68.4	ND	U	0.000758	0.000379	0.000379
	HEXACHLOROBUTADIENE	61.1	ND	U	0.000758	0.000379	0.000379
	ISOPROPYLBENZENE	2,430	ND	U	0.000758	0.000379	0.000379
	METHYL TERT-BUTYL ETHER	901	ND	U	0.000758	0.000379	0.000379
	METHYLENE CHLORIDE	409	ND	U	0.000758	0.000758	0.000758
	NAPHTHALENE	43	ND	U	0.000758	0.000758	0.000758
	N-BUTYLBENZENE	3,900	ND	U	0.000758	0.000379	0.000379
	N-PROPYLBENZENE	3,400	ND	U	0.000758	0.000379	0.000379
	P-ISOPROPYLTOLUENE	NE	ND	U	0.000758	0.000379	0.000379
	SEC-BUTYLBENZENE	7,800	ND	U	0.000758	0.000379	0.000379
	STYRENE	7,280	ND	U	0.000758	0.000379	0.000379
	TERT-BUTYLBENZENE	7,800	ND	U	0.000758	0.000379	0.000379
	TETRACHLOROETHENE	7.02	ND	U	0.000758	0.000379	0.000379
	TOLUENE	5,270	ND	U	0.000758	0.000379	0.000379
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.000758	0.000379	0.000379
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.000758	0.000379	0.000379
	TRICHLOROETHENE	8.77	ND	U	0.000758	0.000379	0.000379
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.000758	0.000379	0.000379
	VINYL ACETATE	2,560	ND	U	0.00379	0.00379	0.00379
	VINYL CHLORIDE	0.728	ND	U	0.000758	0.000379	0.000379
	XYLENES	814	ND	U	0.000758	0.000758	0.000758
Herbicides (mg/kg) Method 8151	2,4,5-T	610	ND	U	0.01	0.01	0.01
	2,4,5-TP	490	ND	U	0.01	0.01	0.01
	2,4-D	690	ND	U	0.01	0.01	0.01
	2,4-DB	490	ND	U	0.01	0.01	0.01
	DACTHAL	610	ND	U	0.01	0.01	0.01
	DICAMBA	1,800	ND	U	0.01	0.01	0.01
	DICHLOROPROP	NE	ND	U	0.01	0.01	0.01
	DINOSEB	61	ND	U	0.01	0.01	0.01
	MCPA	31	ND	U	0.01	0.01	0.01
	PENTACHLOROPHENOL	8.94	ND	U	0.01	0.01	0.01
	PICHLORAM	4,300	ND	U	0.01	0.01	0.01
PCBs (mg/kg) Method 8082	PCB-1016	3.93	ND	U	0.02	0.012	0.012
	PCB-1221	1.49	ND	U	0.02	0.016	0.016
	PCB-1232	1.49	ND	U	0.02	0.016	0.016
	PCB-1242	2.22	ND	U	0.02	0.0078	0.0078
	PCB-1248	2.22	ND	U	0.02	0.012	0.012
	PCB-1254	1.12	ND	U	0.02	0.0059	0.0059
	PCB-1260	2.22	ND	U	0.02	0.019	0.019
Pesticides (mg/kg) Method 8081	4,4'-DDD	20.3	ND	U	0.002	0.00095	0.00095
	4,4'-DDE	14.3	ND	U	0.002	0.00097	0.00097
	4,4'-DDT	17.2	ND	U	0.002	0.00078	0.00078
	ALDRIN	0.284	ND	U	0.002	0.00096	0.00096
	ALPHA-BHC	0.772	ND	U	0.002	0.0011	0.0011
	BETA-BHC	2.7	ND	U	0.002	0.001	0.001
	CHLORDANE	16.2	ND	U	0.12	0.027	0.027
	DELTA-BHC	NE	ND	U	0.002	0.00089	0.00089
	DIELDRIN	0.304	ND	U	0.002	0.00092	0.00092
	ENDOSULFAN I	NE	ND	U	0.002	0.00093	0.00093
	ENDOSULFAN II	NE	ND	U	0.002	0.00092	0.00092
	ENDOSULFAN SULFATE	NE	ND	U	0.002	0.00083	0.00083
	ENDRIN	18.3	ND	U	0.002	0.00093	0.00093
	ENDRIN ALDEHYDE	NE	ND	U	0.002	0.0008	0.0008
	GAMMA-BHC	5.17	ND	U	0.002	0.0011	0.0011
	HEPTACHLOR	1.08	ND	U	0.002	0.00098	0.00098

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results - Backfill

	LOCATION CODE		FFOR-BACKFILL-01				
	SAMPLE NO		FFOR-BF-0001				
	SAMPLE DATE		20-Jun-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		0-0 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
Pesticides (mg/kg) Method 8081	HEPTACHLOR EPOXIDE	0.053	ND	U	0.002	0.00092	0.00092
	METHOXYCHLOR	310	ND	U	0.002	0.00073	0.00073
	TOXAPHENE	4.42	ND	U	0.12	0.036	0.036

[a] EPA analytical methods listed are for the most recent sampling event.

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[c] Value is the EPA MCL-based SSL for total chromium.

[d] Value is the NMED residential SSL for elemental mercury.

[e] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012).

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be measured and
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that can be
ND = Not detected.
NE = Not established.
PAH = Polynuclear aromatic hydrocarbon.
PCB = Polychlorinated biphenyl.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.
Blank cell = No results or no data. Step out samples are only tested for the analyte

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-01					FFOR-EXC-02					FFOR-EXC-03				
	SAMPLE NO		FFOR-CF-0001					FFOR-CF-0002					FFOR-CF-0003				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	14		0.28	0.21	0.21	18		0.27	0.2	0.2	2.6		0.26	0.2	0.2
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	17		11	6.1	6.1	9.5	J	11	5.9	5.9	ND	U	11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.5	0.45	0.45	ND	U	3.6	0.46	0.46	ND	U	3.3	0.43	0.43
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	55	55	55	ND	U	53	53	53	ND	U	53	53	53
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.064	0.064	ND	UJ	1.1	0.62	0.62	ND	U	0.21	0.062	0.062
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.043	0.043	ND	UJ	1.1	0.42	0.42	ND	U	0.21	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.063	0.063	ND	UJ	1.1	0.61	0.61	ND	U	0.21	0.06	0.06
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.069	0.069	ND	UJ	1.1	0.67	0.67	ND	U	0.21	0.066	0.066
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.049	0.049	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.047	0.047
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.061	0.061	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.058	0.058
	2,4-DICHLOROPHENOL	183	ND	U	0.44	0.068	0.068	ND	UJ	2.1	0.66	0.66	ND	U	0.43	0.066	0.066
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.066	0.066	ND	UJ	1.6	0.64	0.64	ND	U	0.32	0.064	0.064
	2,4-DINITROPHENOL	122	ND	U	0.55	0.078	0.078	ND	UJ	2.7	0.76	0.76	ND	U	0.53	0.075	0.075
	2,4-DINITROTOLUENE	15.7	ND	U	0.55	0.082	0.082	ND	UJ	2.7	0.79	0.79	ND	U	0.53	0.079	0.079
	2,6-DINITROTOLUENE	61.1	ND	U	0.55	0.066	0.066	ND	UJ	2.7	0.64	0.64	ND	U	0.53	0.063	0.063
	2-CHLORONAPHTHALENE	6,260	ND	U	0.28	0.063	0.063	ND	UJ	1.3	0.61	0.61	ND	U	0.27	0.061	0.061
	2-CHLOROPHENOL	391	ND	U	0.22	0.069	0.069	ND	UJ	1.1	0.67	0.67	ND	U	0.21	0.066	0.066
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.066	0.066	ND	UJ	1.1	0.64	0.64	ND	U	0.21	0.063	0.063
	2-METHYLPHENOL	3,100	ND	U	0.55	0.063	0.063	ND	UJ	2.7	0.61	0.61	ND	U	0.53	0.061	0.061
	2-NITROANILINE	610	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051
	2-NITROPHENOL	NE	ND	U	0.22	0.061	0.061	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.059	0.059
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.28	0.061	0.061	ND	UJ	1.3	0.59	0.59	ND	U	0.27	0.059	0.059
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.075	0.075	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.072	0.072
	3-NITROANILINE	NE	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.55	0.045	0.045	ND	UJ	2.7	0.44	0.44	ND	U	0.53	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.056	0.056	ND	UJ	1.1	0.54	0.54	ND	U	0.21	0.054	0.054
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.55	0.059	0.059	ND	UJ	2.7	0.57	0.57	ND	U	0.53	0.056	0.056
	4-CHLOROANILINE	2.4	ND	U	0.55	0.059	0.059	ND	UJ	2.7	0.57	0.57	ND	U	0.53	0.056	0.056
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.063	0.063	ND	UJ	1.1	0.61	0.61	ND	U	0.21	0.06	0.06
	4-NITROANILINE	24	ND	U	0.44	0.053	0.053	ND	UJ	2.1	0.52	0.52	ND	U	0.43	0.051	0.051
	4-NITROPHENOL	NE	ND	U	0.28	0.068	0.068	ND	UJ	1.3	0.66	0.66	ND	U	0.27	0.066	0.066
	ACENAPHTHENE	3440	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051
	ACENAPHTHYLENE	NE	ND	U	0.22	0.054	0.054	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.052	0.052
	ANTHRACENE	17,200	ND	U	0.22	0.048	0.048	2.2	J-	1.1	0.46	0.46	ND	U	0.21	0.046	0.046
	BENZENAMINE	85	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.063	0.063
	BENZO(A)ANTHRACENE	1.48	ND	U	0.22	0.06	0.06	**9.8**	J-	1.1	0.58	0.58	ND	U	0.21	0.058	0.058
	BENZO(A)PYRENE	0.148	ND	U	0.22	0.067	0.067	**9.9**	J-	1.1	0.65	0.65	ND	U	0.21	0.064	0.064
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.22	0.076	0.076	**12**	J-	1.1	0.74	0.74	ND	U	0.21	0.073	0.073
	BENZO(GHI)PERYLENE	NE	ND	U	0.22	0.067	0.067	4.4	J-	1.1	0.65	0.65	ND	U	0.21	0.065	0.065
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.084	0.084	6.3	J-	1.1	0.82	0.82	ND	U	0.21	0.081	0.081
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.075	0.075	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.072	0.072
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.089	0.089	ND	UJ	1.1	0.86	0.86	ND	U	0.21	0.086	0.086
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.041	0.041	ND	UJ	1.1	0.4	0.4	ND	U	0.21	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	0.1	J	0.55	0.074	0.074	ND	UJ	2.7	0.72	0.72	0.095	J	0.53	0.072	0.072
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.047	0.047	ND	UJ	1.1	0.46	0.46	ND	U	0.21	0.045	0.045

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-01					FFOR-EXC-02					FFOR-EXC-03				
	SAMPLE NO		FFOR-CF-0001					FFOR-CF-0002					FFOR-CF-0003				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.05	0.05	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.048	0.048
	CHRYSENE	148	ND	U	0.22	0.056	0.056	14	J-	1.1	0.55	0.55	ND	U	0.21	0.054	0.054
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.066	0.066	**1.6**	J-	1.1	0.64	0.64	ND	U	0.21	0.063	0.063
	DIBENZOFURAN	78	ND	U	0.22	0.074	0.074	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.071	0.071
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.05	0.05	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.048	0.048
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.062	0.062	ND	UJ	1.1	0.6	0.6	ND	U	0.21	0.059	0.059
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.55	0.05	0.05	ND	UJ	2.7	0.48	0.48	ND	U	0.53	0.048	0.048
	DI-N-OCTYL PHTHALATE	610	ND	U	0.44	0.28	0.28	ND	UJ	3.2	2.7	2.7	ND	U	0.43	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.22	0.05	0.05	19	J-	1.1	0.48	0.48	ND	U	0.21	0.048	0.048
	FLUORENE	2,290	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.06	0.06	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.058	0.058
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.072	0.072	ND	UJ	1.1	0.69	0.69	ND	U	0.21	0.069	0.069
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.078	0.078	ND	UJ	1.1	0.75	0.75	ND	U	0.21	0.075	0.075
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.22	0.073	0.073	**4.8**	J-	1.1	0.71	0.71	ND	U	0.21	0.071	0.071
	ISOPHORONE	5,120	ND	U	0.55	0.073	0.073	ND	UJ	2.7	0.7	0.7	ND	U	0.53	0.07	0.07
	NAPHTHALENE	43	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.51	0.51	ND	U	0.21	0.051	0.051
	NITROBENZENE	53.5	ND	U	0.55	0.062	0.062	ND	UJ	2.7	0.6	0.6	ND	U	0.53	0.06	0.06
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.084	0.084	ND	UJ	1.1	0.81	0.81	ND	U	0.21	0.081	0.081
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.073	0.073	ND	UJ	1.1	0.71	0.71	ND	U	0.21	0.071	0.071
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062
	PENTACHLOROPHENOL	8.94	ND	U	0.44	0.09	0.09	ND	UJ	2.1	0.87	0.87	ND	U	0.43	0.087	0.087
	PHENANTHRENE	1,830	ND	U	0.22	0.04	0.04	5.8	J-	1.1	0.39	0.39	ND	U	0.21	0.039	0.039
	PHENOL	18,300	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.063	0.063
	PYRENE	1,720	ND	U	0.22	0.06	0.06	18	J-	1.1	0.58	0.58	ND	U	0.21	0.058	0.058
	PYRIDINE	78	ND	U	0.55	0.061	0.061	ND	UJ	2.7	0.6	0.6	ND	U	0.53	0.059	0.059
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-01					FFOR-EXC-02					FFOR-EXC-03				
	SAMPLE NO		FFOR-CF-0001					FFOR-CF-0002					FFOR-CF-0003				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1-DICHLOROETHANE	64.5	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1-DICHLOROETHENE	449	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,1-DICHLOROPROPENE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2-DIBROMOETHANE	0.588	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2-DICHLOROETHANE	7.89	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,3-DICHLOROBENZENE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	2,2-DICHLOROPROPANE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	2-BUTANONE	37,100	ND	U	0.00665	0.00665	0.00665	ND	U	0.00678	0.00678	0.00678	ND	U	0.00662	0.00662	0.00662
	2-CHLOROTOLUENE	1,560	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	2-HEXANONE	210	ND	U	0.00665	0.00665	0.00665	ND	U	0.00678	0.00678	0.00678	ND	U	0.00662	0.00662	0.00662
	4-CHLOROTOLUENE	1,600	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00665	0.00665	0.00665	ND	U	0.00678	0.00678	0.00678	ND	U	0.00662	0.00662	0.00662
	ACETONE	66,600	0.0184		0.00665	0.00665	0.00665	0.0127		0.00678	0.00678	0.00678	0.0183		0.00662	0.00662	0.00662
	BENZENE	15.4	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	BROMOBENZENE	300	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	BROMOCHLOROMETHANE	160	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	BROMODICHLOROMETHANE	5.41	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	BROMOFORM	616	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	BROMOMETHANE	16.5	ND	U	0.00332	0.000665	0.000665	ND	U	0.00339	0.000678	0.000678	ND	U	0.00331	0.000662	0.000662
	CARBON DISULFIDE	1,530	ND	U	0.00665	0.00665	0.00665	ND	U	0.00678	0.00678	0.00678	ND	U	0.00662	0.00662	0.00662
	CARBON TETRACHLORIDE	10.8	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CHLOROBENZENE	376	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CHLOROETHANE	29,800	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CHLOROFORM	5.86	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CHLOROMETHANE	275	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	DIBROMOMETHANE	51.6	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	ETHYLBENZENE	68.4	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-01					FFOR-EXC-02					FFOR-EXC-03				
	SAMPLE NO		FFOR-CF-0001					FFOR-CF-0002					FFOR-CF-0003				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	METHYLENE CHLORIDE	409	ND	U	0.00332	0.00133	0.00133	ND	U	0.00339	0.00136	0.00136	ND	U	0.00331	0.00132	0.00132
	NAPHTHALENE	43	ND	U	0.00133	0.00133	0.00133	ND	U	0.00136	0.00136	0.00136	ND	U	0.00132	0.00132	0.00132
	N-BUTYLBENZENE	3,900	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	N-PROPYLBENZENE	3,400	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	SEC-BUTYLBENZENE	7,800	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	STYRENE	7,280	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TERT-BUTYLBENZENE	7,800	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TETRACHLOROETHENE	7.02	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TOLUENE	5,270	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TRICHLOROETHENE	8.77	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	VINYL ACETATE	2,560	ND	U	0.00665	0.00665	0.00665	ND	U	0.00678	0.00678	0.00678	ND	U	0.00662	0.00662	0.00662
	VINYL CHLORIDE	0.728	ND	U	0.00133	0.000665	0.000665	ND	U	0.00136	0.000678	0.000678	ND	U	0.00132	0.000662	0.000662
	XYLENES	814	ND	U	0.00133	0.00133	0.00133	ND	U	0.00136	0.00136	0.00136	ND	U	0.00132	0.00132	0.00132

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-846, Washington D.C., 1986. EPA analytical methods listed are for the most recent sampling event.

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Screening Guidance Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, Santa Fe, New Mexico, February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not driven by TPH concentrations.

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be measured
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method detection
J+ = estimated value, concentration is less than LOQ but greater than laboratory method detection
J- = estimated value, concentration is less than LOQ but greater than laboratory method detection
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable that
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the DL.
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-04					FFOR-EXC-05					FFOR-EXC-06				
	SAMPLE NO		FFOR-CF-0004					FFOR-CF-0005					FFOR-CF-0006				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	1.3		0.28	0.21	0.21	8.1		0.28	0.2	0.2	12		0.26	0.19	0.19
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	29		11	5.9	5.9	ND	U	11	5.9	5.9	ND	U	11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.7	0.48	0.48	ND	U	4	0.51	0.51	ND	U	3.6	0.46	0.46
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	130		54	54	54	ND	U	53	53	53	ND	U	53	53	53
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.063	0.063	ND	UJ	1.1	0.62	0.62	ND	UJ	1.1	0.62	0.62
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.043	0.043	ND	UJ	1.1	0.42	0.42	ND	UJ	1.1	0.42	0.42
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.062	0.062	ND	UJ	1.1	0.61	0.61	ND	UJ	1.1	0.61	0.61
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.068	0.068	ND	UJ	1.1	0.67	0.67	ND	UJ	1.1	0.67	0.67
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.048	0.048	ND	UJ	1.1	0.48	0.48	ND	UJ	1.1	0.48	0.48
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.06	0.06	ND	UJ	1.1	0.59	0.59	ND	UJ	1.1	0.59	0.59
	2,4-DICHLOROPHENOL	183	ND	U	0.44	0.067	0.067	ND	UJ	2.2	0.66	0.66	ND	UJ	2.2	0.66	0.66
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.065	0.065	ND	UJ	1.6	0.64	0.64	ND	UJ	1.6	0.64	0.64
	2,4-DINITROPHENOL	122	ND	U	0.55	0.077	0.077	ND	UJ	2.7	0.76	0.76	ND	UJ	2.7	0.76	0.76
	2,4-DINITROTOLUENE	15.7	ND	U	0.55	0.08	0.08	ND	UJ	2.7	0.79	0.79	ND	UJ	2.7	0.79	0.79
	2,6-DINITROTOLUENE	61.1	ND	U	0.55	0.065	0.065	ND	UJ	2.7	0.64	0.64	ND	UJ	2.7	0.64	0.64
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.062	0.062	ND	UJ	1.3	0.62	0.62	ND	UJ	1.3	0.61	0.61
	2-CHLOROPHENOL	391	ND	U	0.22	0.068	0.068	ND	UJ	1.1	0.67	0.67	ND	UJ	1.1	0.67	0.67
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.64	0.64	ND	UJ	1.1	0.64	0.64
	2-METHYLPHENOL	3,100	ND	U	0.55	0.063	0.063	ND	UJ	2.7	0.62	0.62	ND	UJ	2.7	0.62	0.62
	2-NITROANILINE	610	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.52	0.52	ND	UJ	1.1	0.52	0.52
	2-NITROPHENOL	NE	ND	U	0.22	0.06	0.06	ND	UJ	1.1	0.59	0.59	ND	UJ	1.1	0.59	0.59
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.061	0.061	ND	UJ	1.3	0.6	0.6	ND	UJ	1.3	0.6	0.6
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.074	0.074	ND	UJ	1.1	0.73	0.73	ND	UJ	1.1	0.73	0.73
	3-NITROANILINE	NE	ND	U	0.22	0.064	0.064	ND	UJ	1.1	0.63	0.63	ND	UJ	1.1	0.63	0.63
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.55	0.045	0.045	ND	UJ	2.7	0.44	0.44	ND	UJ	2.7	0.44	0.44
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.055	0.055	ND	UJ	1.1	0.54	0.54	ND	UJ	1.1	0.54	0.54
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.55	0.058	0.058	ND	UJ	2.7	0.57	0.57	ND	UJ	2.7	0.57	0.57
	4-CHLOROANILINE	2.4	ND	U	0.55	0.058	0.058	ND	UJ	2.7	0.57	0.57	ND	UJ	2.7	0.57	0.57
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.062	0.062	ND	UJ	1.1	0.61	0.61	ND	UJ	1.1	0.61	0.61
	4-NITROANILINE	24	ND	U	0.44	0.053	0.053	ND	UJ	2.2	0.52	0.52	ND	UJ	2.2	0.52	0.52
	4-NITROPHENOL	NE	ND	U	0.27	0.067	0.067	ND	UJ	1.3	0.66	0.66	ND	UJ	1.3	0.66	0.66
	ACENAPHTHENE	3440	ND	U	0.22	0.052	0.052	ND	UJ	1.1	0.52	0.52	ND	UJ	1.1	0.52	0.52
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	UJ	1.1	0.53	0.53	ND	UJ	1.1	0.52	0.52
	ANTHRACENE	17,200	ND	U	0.22	0.047	0.047	ND	UJ	1.1	0.47	0.47	1.9	J-	1.1	0.47	0.47
	BENZENAMINE	85	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.64	0.64	ND	UJ	1.1	0.64	0.64
	BENZO(A)ANTHRACENE	1.48	ND	U	0.22	0.059	0.059	ND	UJ	1.1	0.59	0.59	**11**	J-	1.1	0.58	0.58
	BENZO(A)PYRENE	0.148	ND	U	0.22	0.066	0.066	ND	UJ	1.1	0.65	0.65	**13**	J-	1.1	0.65	0.65
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.22	0.075	0.075	ND	UJ	1.1	0.74	0.74	**16**	J-	1.1	0.74	0.74
	BENZO(GHI)PERYLENE	NE	ND	U	0.22	0.066	0.066	ND	UJ	1.1	0.65	0.65	5.5	J-	1.1	0.65	0.65
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.083	0.083	ND	UJ	1.1	0.82	0.82	7	J-	1.1	0.82	0.82
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.074	0.074	ND	UJ	1.1	0.73	0.73	ND	UJ	1.1	0.72	0.72
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.088	0.088	ND	UJ	1.1	0.86	0.86	ND	UJ	1.1	0.86	0.86
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.041	0.041	ND	UJ	1.1	0.4	0.4	ND	UJ	1.1	0.4	0.4
	BIS(2-ETHYLHEXYL)PHTHALATE	347	0.097	J	0.55	0.073	0.073	ND	UJ	2.7	0.73	0.73	ND	UJ	2.7	0.72	0.72
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.046	0.046	ND	UJ	1.1	0.46	0.46	ND	UJ	1.1	0.46	0.46

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-04					FFOR-EXC-05					FFOR-EXC-06				
	SAMPLE NO		FFOR-CF-0004					FFOR-CF-0005					FFOR-CF-0006				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.049	0.049	ND	UJ	1.1	0.48	0.48	0.79	J-	1.1	0.48	0.48
	CHRYSENE	148	ND	U	0.22	0.056	0.056	ND	UJ	1.1	0.55	0.55	17	J-	1.1	0.55	0.55
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.065	0.065	ND	UJ	1.1	0.64	0.64	**1.9**	J-	1.1	0.64	0.64
	DIBENZOFURAN	78	ND	U	0.22	0.073	0.073	ND	UJ	1.1	0.72	0.72	ND	UJ	1.1	0.72	0.72
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.049	0.049	ND	UJ	1.1	0.48	0.48	ND	UJ	1.1	0.48	0.48
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.061	0.061	ND	UJ	1.1	0.6	0.6	ND	UJ	1.1	0.6	0.6
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.55	0.049	0.049	ND	UJ	2.7	0.48	0.48	ND	UJ	2.7	0.48	0.48
	DI-N-OCTYL PHTHALATE	610	ND	U	0.44	0.27	0.27	ND	UJ	3.2	2.7	2.7	ND	UJ	3.2	2.7	2.7
	FLUORANTHENE	2,290	ND	U	0.22	0.049	0.049	ND	UJ	1.1	0.48	0.48	18	J-	1.1	0.48	0.48
	FLUORENE	2,290	ND	U	0.22	0.064	0.064	ND	UJ	1.1	0.63	0.63	ND	UJ	1.1	0.63	0.63
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.06	0.06	ND	UJ	1.1	0.59	0.59	ND	UJ	1.1	0.59	0.59
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.052	0.052	ND	UJ	1.1	0.52	0.52	ND	UJ	1.1	0.52	0.52
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.071	0.071	ND	UJ	1.1	0.7	0.7	ND	UJ	1.1	0.7	0.7
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.077	0.077	ND	UJ	1.1	0.76	0.76	ND	UJ	1.1	0.75	0.75
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.22	0.072	0.072	ND	UJ	1.1	0.71	0.71	**5.9**	J-	1.1	0.71	0.71
	ISOPHORONE	5,120	ND	U	0.55	0.072	0.072	ND	UJ	2.7	0.71	0.71	ND	UJ	2.7	0.71	0.71
	NAPHTHALENE	43	ND	U	0.22	0.052	0.052	ND	UJ	1.1	0.51	0.51	ND	UJ	1.1	0.51	0.51
	NITROBENZENE	53.5	ND	U	0.55	0.061	0.061	ND	UJ	2.7	0.6	0.6	ND	UJ	2.7	0.6	0.6
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.082	0.082	ND	UJ	1.1	0.81	0.81	ND	UJ	1.1	0.81	0.81
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.072	0.072	ND	UJ	1.1	0.71	0.71	ND	UJ	1.1	0.71	0.71
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.064	0.064	ND	UJ	1.1	0.63	0.63	ND	UJ	1.1	0.63	0.63
	PENTACHLOROPHENOL	8.94	ND	U	0.44	0.089	0.089	ND	UJ	2.2	0.87	0.87	ND	UJ	2.2	0.87	0.87
	PHENANTHRENE	1,830	ND	U	0.22	0.04	0.04	ND	UJ	1.1	0.39	0.39	2.1	J-	1.1	0.39	0.39
	PHENOL	18,300	ND	U	0.22	0.064	0.064	ND	UJ	1.1	0.63	0.63	ND	UJ	1.1	0.63	0.63
	PYRENE	1,720	ND	U	0.22	0.059	0.059	ND	UJ	1.1	0.58	0.58	16	J-	1.1	0.58	0.58
	PYRIDINE	78	ND	U	0.55	0.061	0.061	ND	UJ	2.7	0.6	0.6	ND	UJ	2.7	0.6	0.6
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-04					FFOR-EXC-05					FFOR-EXC-06				
	SAMPLE NO		FFOR-CF-0004					FFOR-CF-0005					FFOR-CF-0006				
	SAMPLE DATE		30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1-DICHLOROETHANE	64.5	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1-DICHLOROETHENE	449	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,1-DICHLOROPROPENE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2-DIBROMOETHANE	0.588	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2-DICHLOROETHANE	7.89	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,3-DICHLOROBENZENE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	2,2-DICHLOROPROPANE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	2-BUTANONE	37,100	ND	U	0.0061	0.0061	0.0061	ND	U	0.00662	0.00662	0.00662	ND	U	0.00687	0.00687	0.00687
	2-CHLOROTOLUENE	1,560	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	2-HEXANONE	210	ND	U	0.0061	0.0061	0.0061	ND	U	0.00662	0.00662	0.00662	ND	U	0.00687	0.00687	0.00687
	4-CHLOROTOLUENE	1,600	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.0061	0.0061	0.0061	ND	U	0.00662	0.00662	0.00662	ND	U	0.00687	0.00687	0.00687
	ACETONE	66,600	ND	U	0.0061	0.0061	0.0061	0.00721		0.00662	0.00662	0.00662	0.0328		0.00687	0.00687	0.00687
	BENZENE	15.4	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	BROMOBENZENE	300	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	BROMOCHLOROMETHANE	160	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	BROMODICHLOROMETHANE	5.41	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	BROMOFORM	616	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	BROMOMETHANE	16.5	ND	U	0.00305	0.00061	0.00061	ND	U	0.00331	0.000662	0.000662	ND	U	0.00344	0.000687	0.000687
	CARBON DISULFIDE	1,530	ND	U	0.0061	0.0061	0.0061	ND	U	0.00662	0.00662	0.00662	ND	U	0.00687	0.00687	0.00687
	CARBON TETRACHLORIDE	10.8	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CHLOROBENZENE	376	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CHLOROETHANE	29,800	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CHLOROFORM	5.86	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CHLOROMETHANE	275	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	DIBROMOMETHANE	51.6	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	ETHYLBENZENE	68.4	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-04					FFOR-EXC-05					FFOR-EXC-06				
	SAMPLE NO	FFOR-CF-0004					FFOR-CF-0005					FFOR-CF-0006				
	SAMPLE DATE	30-Jun-14					30-Jun-14					30-Jun-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	METHYLENE CHLORIDE	409	ND	U	0.00305	0.00122	0.00122	ND	U	0.00331	0.00132	0.00132	ND	U	0.00344	0.00137	0.00137
	NAPHTHALENE	43	ND	U	0.00122	0.00122	0.00122	ND	U	0.00132	0.00132	0.00132	ND	U	0.00137	0.00137	0.00137
	N-BUTYLBENZENE	3,900	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	N-PROPYLBENZENE	3,400	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	SEC-BUTYLBENZENE	7,800	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	STYRENE	7,280	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TERT-BUTYLBENZENE	7,800	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TETRACHLOROETHENE	7.02	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TOLUENE	5,270	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	0.00264		0.00137	0.000687	0.000687
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TRICHLOROETHENE	8.77	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	VINYL ACETATE	2,560	ND	U	0.0061	0.0061	0.0061	ND	U	0.00662	0.00662	0.00662	ND	U	0.00687	0.00687	0.00687
	VINYL CHLORIDE	0.728	ND	U	0.00122	0.00061	0.00061	ND	U	0.00132	0.000662	0.000662	ND	U	0.00137	0.000687	0.000687
	XYLENES	814	ND	U	0.00122	0.00122	0.00122	ND	U	0.00132	0.00132	0.00132	ND	U	0.00137	0.00137	0.00137

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-07					FFOR-EXC-08					FFOR-EXC-09				
	SAMPLE NO		FFOR-CF-0007					FFOR-CF-0008					FFOR-CF-0009				
	SAMPLE DATE		30-Jun-14					30-Jun-14					1-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	25		0.27	0.2	0.2	4		0.26	0.19	0.19	2.2		0.26	0.19	0.19
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	15		11	6	6	ND	U	11	5.9	5.9	ND	U	11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.9	0.51	0.51	ND	U	3.9	0.51	0.51	ND	U	3.8	0.5	0.5
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	54	54	54	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	UJ	1.1	0.62	0.62	ND	U	0.21	0.061	0.061	ND	U	0.21	0.061	0.061
	1,2-DICHLOROBENZENE	2,310	ND	UJ	1.1	0.42	0.42	ND	U	0.21	0.041	0.041	ND	U	0.21	0.041	0.041
	1,3-DICHLOROBENZENE	NE	ND	UJ	1.1	0.61	0.61	ND	U	0.21	0.06	0.06	ND	U	0.21	0.06	0.06
	1,4-DICHLOROBENZENE	31.7	ND	UJ	1.1	0.67	0.67	ND	U	0.21	0.066	0.066	ND	U	0.21	0.066	0.066
	2,4,5-TRICHLOROPHENOL	6,110	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.047	0.047	ND	U	0.21	0.047	0.047
	2,4,6-TRICHLOROPHENOL	61.1	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058
	2,4-DICHLOROPHENOL	183	ND	UJ	2.2	0.66	0.66	ND	U	0.43	0.065	0.065	ND	U	0.42	0.065	0.065
	2,4-DIMETHYLPHENOL	1,220	ND	UJ	1.6	0.64	0.64	ND	U	0.32	0.063	0.063	ND	U	0.32	0.063	0.063
	2,4-DINITROPHENOL	122	ND	UJ	2.7	0.76	0.76	ND	U	0.53	0.075	0.075	ND	U	0.53	0.075	0.075
	2,4-DINITROTOLUENE	15.7	ND	UJ	2.7	0.8	0.8	ND	U	0.53	0.078	0.078	ND	U	0.53	0.078	0.078
	2,6-DINITROTOLUENE	61.1	ND	UJ	2.7	0.64	0.64	ND	U	0.53	0.063	0.063	ND	U	0.53	0.063	0.063
	2-CHLORONAPHTHALENE	6,260	ND	UJ	1.3	0.62	0.62	ND	U	0.27	0.061	0.061	ND	U	0.27	0.061	0.061
	2-CHLOROPHENOL	391	ND	UJ	1.1	0.67	0.67	ND	U	0.21	0.066	0.066	ND	U	0.21	0.066	0.066
	2-METHYLNAPHTHALENE	230	ND	UJ	1.1	0.64	0.64	ND	U	0.21	0.063	0.063	ND	U	0.21	0.063	0.063
	2-METHYLPHENOL	3,100	ND	UJ	2.7	0.62	0.62	ND	U	0.53	0.061	0.061	ND	U	0.53	0.061	0.061
	2-NITROANILINE	610	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051
	2-NITROPHENOL	NE	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058
	3,3'-DICHLOROBENZIDINE	10.8	ND	UJ	1.3	0.6	0.6	ND	U	0.27	0.059	0.059	ND	U	0.27	0.059	0.059
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	UJ	1.1	0.73	0.73	ND	U	0.21	0.072	0.072	0.077	J	0.21	0.072	0.072
	3-NITROANILINE	NE	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	UJ	2.7	0.44	0.44	ND	U	0.53	0.044	0.044	ND	U	0.53	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	UJ	1.1	0.54	0.54	ND	U	0.21	0.054	0.054	ND	U	0.21	0.053	0.053
	4-CHLORO-3-METHYLPHENOL	6,100	ND	UJ	2.7	0.57	0.57	ND	U	0.53	0.056	0.056	ND	U	0.53	0.056	0.056
	4-CHLOROANILINE	2.4	ND	UJ	2.7	0.57	0.57	ND	U	0.53	0.056	0.056	ND	U	0.53	0.056	0.056
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	UJ	1.1	0.61	0.61	ND	U	0.21	0.06	0.06	ND	U	0.21	0.06	0.06
	4-NITROANILINE	24	ND	UJ	2.2	0.52	0.52	ND	U	0.43	0.051	0.051	ND	U	0.42	0.051	0.051
	4-NITROPHENOL	NE	ND	UJ	1.3	0.66	0.66	ND	U	0.27	0.065	0.065	ND	U	0.27	0.065	0.065
	ACENAPHTHENE	3440	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051
	ACENAPHTHYLENE	NE	ND	UJ	1.1	0.53	0.53	ND	U	0.21	0.052	0.052	ND	U	0.21	0.052	0.052
	ANTHRACENE	17,200	ND	UJ	1.1	0.47	0.47	ND	U	0.21	0.046	0.046	ND	U	0.21	0.046	0.046
	BENZENAMINE	85	ND	UJ	1.1	0.64	0.64	ND	U	0.21	0.063	0.063	ND	U	0.21	0.063	0.063
	BENZO(A)ANTHRACENE	1.48	1.2	J-	1.1	0.59	0.59	0.1	J	0.21	0.058	0.058	ND	U	0.21	0.058	0.058
	BENZO(A)PYRENE	0.148	ND	UJ	1.1	0.65	0.65	ND	U	0.21	0.064	0.064	ND	U	0.21	0.064	0.064
	BENZO(B)FLUORANTHENE	1.48	1.3	J-	1.1	0.74	0.74	ND	U	0.21	0.073	0.073	ND	U	0.21	0.073	0.073
	BENZO(GHI)PERYLENE	NE	0.72	J-	1.1	0.65	0.65	0.086	J	0.21	0.064	0.064	ND	U	0.21	0.064	0.064
	BENZO(K)FLUORANTHENE	14.8	ND	UJ	1.1	0.82	0.82	ND	U	0.21	0.081	0.081	ND	U	0.21	0.081	0.081
	BIS(2-CHLOROETHOXY)METHANE	180	ND	UJ	1.1	0.73	0.73	ND	U	0.21	0.072	0.072	ND	U	0.21	0.072	0.072
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	UJ	1.1	0.87	0.87	ND	U	0.21	0.085	0.085	ND	U	0.21	0.085	0.085
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	UJ	1.1	0.4	0.4	ND	U	0.21	0.039	0.039	ND	U	0.21	0.039	0.039
	BIS(2-ETHYLHEXYL)PHTHALATE	347	1.1	J-	2.7	0.73	0.73	0.1	J	0.53	0.072	0.072	ND	UJ	0.53	0.071	0.071
	BUTYL BENZYL PHTHALATE	260	ND	UJ	1.1	0.46	0.46	ND	U	0.21	0.045	0.045	ND	U	0.21	0.045	0.045

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-07					FFOR-EXC-08					FFOR-EXC-09				
	SAMPLE NO		FFOR-CF-0007					FFOR-CF-0008					FFOR-CF-0009				
	SAMPLE DATE		30-Jun-14					30-Jun-14					1-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.048	0.048	ND	U	0.21	0.048	0.048
	CHRYSENE	148	0.84	J-	1.1	0.55	0.55	ND	U	0.21	0.054	0.054	ND	U	0.21	0.054	0.054
	DIBENZO(A,H)ANTHRACENE	0.148	ND	UJ	1.1	0.64	0.64	ND	U	0.21	0.063	0.063	ND	U	0.21	0.063	0.063
	DIBENZOFURAN	78	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.071	0.071	ND	U	0.21	0.071	0.071
	DIETHYL PHTHALATE	48,900	ND	UJ	1.1	0.48	0.48	ND	U	0.21	0.048	0.048	ND	U	0.21	0.048	0.048
	DIMETHYL PHTHALATE	611,000	ND	UJ	1.1	0.6	0.6	ND	U	0.21	0.059	0.059	ND	U	0.21	0.059	0.059
	DI-N-BUTYL PHTHALATE	6,110	ND	UJ	2.7	0.49	0.49	ND	U	0.53	0.048	0.048	ND	U	0.53	0.048	0.048
	DI-N-OCTYL PHTHALATE	610	ND	UJ	3.2	2.7	2.7	ND	U	0.43	0.27	0.27	ND	U	0.42	0.27	0.27
	FLUORANTHENE	2,290	0.76	J-	1.1	0.48	0.48	ND	U	0.21	0.048	0.048	ND	U	0.21	0.048	0.048
	FLUORENE	2,290	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062
	HEXACHLOROBENZENE	3.04	ND	UJ	1.1	0.59	0.59	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058
	HEXACHLOROBUTADIENE	61.1	ND	UJ	1.1	0.52	0.52	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051
	HEXACHLOROCYCLOPENTADIENE	367	ND	UJ	1.1	0.7	0.7	ND	U	0.21	0.069	0.069	ND	U	0.21	0.069	0.069
	HEXACHLOROETHANE	42.8	ND	UJ	1.1	0.76	0.76	ND	U	0.21	0.075	0.075	ND	U	0.21	0.075	0.075
	INDENO(1,2,3-CD)PYRENE	1.48	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.07	0.07	ND	U	0.21	0.07	0.07
	ISOPHORONE	5,120	ND	UJ	2.7	0.71	0.71	ND	U	0.53	0.07	0.07	ND	U	0.53	0.07	0.07
	NAPHTHALENE	43	ND	UJ	1.1	0.51	0.51	ND	U	0.21	0.051	0.051	ND	U	0.21	0.05	0.05
	NITROBENZENE	53.5	ND	UJ	2.7	0.6	0.6	ND	U	0.53	0.059	0.059	ND	U	0.53	0.059	0.059
	N-NITROSODIMETHYLAMINE	0.0226	ND	UJ	1.1	0.82	0.82	ND	U	0.21	0.08	0.08	ND	U	0.21	0.08	0.08
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	UJ	1.1	0.72	0.72	ND	U	0.21	0.07	0.07	ND	U	0.21	0.07	0.07
	N-NITROSODIPHENYLAMINE	993	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062
	PENTACHLOROPHENOL	8.94	ND	UJ	2.2	0.88	0.88	ND	U	0.43	0.086	0.086	ND	U	0.42	0.086	0.086
	PHENANTHRENE	1,830	ND	UJ	1.1	0.39	0.39	ND	U	0.21	0.038	0.038	ND	U	0.21	0.038	0.038
	PHENOL	18,300	ND	UJ	1.1	0.63	0.63	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062
	PYRENE	1,720	0.98	J-	1.1	0.59	0.59	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058
	PYRIDINE	78	ND	UJ	2.7	0.6	0.6	ND	U	0.53	0.059	0.059	ND	U	0.53	0.059	0.059
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-07					FFOR-EXC-08					FFOR-EXC-09				
	SAMPLE NO		FFOR-CF-0007					FFOR-CF-0008					FFOR-CF-0009				
	SAMPLE DATE		30-Jun-14					30-Jun-14					1-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1-DICHLOROETHANE	64.5	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1-DICHLOROETHENE	449	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,1-DICHLOROPROPENE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2-DIBROMOETHANE	0.588	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2-DICHLOROETHANE	7.89	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,3-DICHLOROBENZENE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	2,2-DICHLOROPROPANE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	2-BUTANONE	37,100	ND	U	0.00671	0.00671	0.00671	ND	U	0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	2-CHLOROTOLUENE	1,560	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	2-HEXANONE	210	ND	U	0.00671	0.00671	0.00671	ND	U	0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	4-CHLOROTOLUENE	1,600	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00671	0.00671	0.00671	ND	U	0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	ACETONE	66,600	0.0101		0.00671	0.00671	0.00671	0.00867		0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	BENZENE	15.4	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	BROMOBENZENE	300	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	BROMOCHLOROMETHANE	160	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	BROMODICHLOROMETHANE	5.41	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	BROMOFORM	616	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	BROMOMETHANE	16.5	ND	U	0.00335	0.000671	0.000671	ND	U	0.0033	0.00066	0.00066	ND	U	0.00337	0.000674	0.000674
	CARBON DISULFIDE	1,530	ND	U	0.00671	0.00671	0.00671	ND	U	0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	CARBON TETRACHLORIDE	10.8	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CHLOROBENZENE	376	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CHLOROETHANE	29,800	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CHLOROFORM	5.86	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CHLOROMETHANE	275	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	DIBROMOMETHANE	51.6	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	ETHYLBENZENE	68.4	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-07					FFOR-EXC-08					FFOR-EXC-09				
	SAMPLE NO	FFOR-CF-0007					FFOR-CF-0008					FFOR-CF-0009				
	SAMPLE DATE	30-Jun-14					30-Jun-14					1-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					5 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	METHYLENE CHLORIDE	409	ND	U	0.00335	0.00134	0.00134	ND	U	0.0033	0.00132	0.00132	ND	U	0.00337	0.00135	0.00135
	NAPHTHALENE	43	ND	U	0.00134	0.00134	0.00134	ND	U	0.00132	0.00132	0.00132	ND	U	0.00135	0.00135	0.00135
	N-BUTYLBENZENE	3,900	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	N-PROPYLBENZENE	3,400	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	SEC-BUTYLBENZENE	7,800	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	STYRENE	7,280	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TERT-BUTYLBENZENE	7,800	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TETRACHLOROETHENE	7.02	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TOLUENE	5,270	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TRICHLOROETHENE	8.77	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	VINYL ACETATE	2,560	ND	U	0.00671	0.00671	0.00671	ND	U	0.0066	0.0066	0.0066	ND	U	0.00674	0.00674	0.00674
	VINYL CHLORIDE	0.728	ND	U	0.00134	0.000671	0.000671	ND	U	0.00132	0.00066	0.00066	ND	U	0.00135	0.000674	0.000674
	XYLENES	814	ND	U	0.00134	0.00134	0.00134	ND	U	0.00132	0.00132	0.00132	ND	U	0.00135	0.00135	0.00135

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-10					FFOR-EXC-10					FFOR-EXC-11				
	SAMPLE NO		FFOR-CF-0010					FFOR-CF-0011					FFOR-CF-0012				
	SAMPLE DATE		1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	6		0.27	0.2	0.2	4.6		0.27	0.2	0.2	1.2		0.27	0.2	0.2
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	6.9	J	11	6.1	6.1	13		11	6	6	ND	U	11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4	0.52	0.52	ND	U	4	0.51	0.51	ND	U	4	0.52	0.52
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	56	56	56	ND	U	54	54	54	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.063	0.063	ND	U	0.44	0.13	0.13	ND	U	0.22	0.063	0.063
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.043	0.043	ND	U	0.44	0.086	0.086	ND	U	0.22	0.043	0.043
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.062	0.062	ND	U	0.44	0.12	0.12	ND	U	0.22	0.062	0.062
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.068	0.068	ND	U	0.44	0.14	0.14	ND	U	0.22	0.068	0.068
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.049	0.049	ND	U	0.44	0.098	0.098	ND	U	0.22	0.048	0.048
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.06	0.06	ND	U	0.44	0.12	0.12	ND	U	0.22	0.06	0.06
	2,4-DICHLOROPHENOL	183	ND	U	0.44	0.067	0.067	ND	U	0.88	0.14	0.14	ND	U	0.44	0.067	0.067
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.065	0.065	ND	U	0.66	0.13	0.13	ND	U	0.33	0.065	0.065
	2,4-DINITROPHENOL	122	ND	U	0.55	0.077	0.077	ND	U	1.1	0.16	0.16	ND	U	0.55	0.077	0.077
	2,4-DINITROTOLUENE	15.7	ND	U	0.55	0.081	0.081	ND	U	1.1	0.16	0.16	ND	U	0.55	0.08	0.08
	2,6-DINITROTOLUENE	61.1	ND	U	0.55	0.065	0.065	ND	U	1.1	0.13	0.13	ND	U	0.55	0.065	0.065
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.063	0.063	ND	U	0.55	0.13	0.13	ND	U	0.27	0.062	0.062
	2-CHLOROPHENOL	391	ND	U	0.22	0.068	0.068	ND	U	0.44	0.14	0.14	ND	U	0.22	0.068	0.068
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.065	0.065	ND	U	0.44	0.13	0.13	ND	U	0.22	0.065	0.065
	2-METHYLPHENOL	3,100	ND	U	0.55	0.063	0.063	ND	U	1.1	0.13	0.13	ND	U	0.55	0.062	0.062
	2-NITROANILINE	610	ND	U	0.22	0.053	0.053	ND	U	0.44	0.11	0.11	ND	U	0.22	0.053	0.053
	2-NITROPHENOL	NE	ND	U	0.22	0.06	0.06	ND	U	0.44	0.12	0.12	ND	U	0.22	0.06	0.06
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.061	0.061	ND	U	0.55	0.12	0.12	ND	U	0.27	0.06	0.06
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	0.075	J	0.22	0.074	0.074	ND	U	0.44	0.15	0.15	ND	U	0.22	0.074	0.074
	3-NITROANILINE	NE	ND	U	0.22	0.064	0.064	ND	U	0.44	0.13	0.13	ND	U	0.22	0.064	0.064
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.55	0.045	0.045	ND	U	1.1	0.09	0.09	ND	U	0.55	0.045	0.045
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.055	0.055	ND	U	0.44	0.11	0.11	ND	U	0.22	0.055	0.055
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.55	0.058	0.058	ND	U	1.1	0.12	0.12	ND	U	0.55	0.058	0.058
	4-CHLOROANILINE	2.4	ND	U	0.55	0.058	0.058	ND	U	1.1	0.12	0.12	ND	U	0.55	0.058	0.058
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.062	0.062	ND	U	0.44	0.13	0.13	ND	U	0.22	0.062	0.062
	4-NITROANILINE	24	ND	U	0.44	0.053	0.053	ND	U	0.88	0.11	0.11	ND	U	0.44	0.052	0.052
	4-NITROPHENOL	NE	ND	U	0.27	0.067	0.067	ND	U	0.55	0.14	0.14	ND	U	0.27	0.067	0.067
	ACENAPHTHENE	3440	ND	U	0.22	0.053	0.053	ND	U	0.44	0.11	0.11	ND	U	0.22	0.052	0.052
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	U	0.44	0.11	0.11	ND	U	0.22	0.053	0.053
	ANTHRACENE	17,200	ND	U	0.22	0.047	0.047	ND	U	0.44	0.095	0.095	ND	U	0.22	0.047	0.047
	BENZENAMINE	85	ND	U	0.22	0.065	0.065	ND	U	0.44	0.13	0.13	ND	U	0.22	0.064	0.064
	BENZO(A)ANTHRACENE	1.48	0.11	J	0.22	0.06	0.06	0.21	J	0.44	0.12	0.12	ND	U	0.22	0.059	0.059
	BENZO(A)PYRENE	0.148	0.08	J	0.22	0.066	0.066	ND	U	0.44	0.13	0.13	ND	U	0.22	0.066	0.066
	BENZO(B)FLUORANTHENE	1.48	0.095	J	0.22	0.075	0.075	ND	U	0.44	0.15	0.15	ND	U	0.22	0.075	0.075
	BENZO(GHI)PERYLENE	NE	0.16	J	0.22	0.066	0.066	0.18	J	0.44	0.13	0.13	ND	U	0.22	0.066	0.066
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.083	0.083	ND	U	0.44	0.17	0.17	ND	U	0.22	0.083	0.083
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.074	0.074	ND	U	0.44	0.15	0.15	ND	U	0.22	0.074	0.074
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.088	0.088	ND	U	0.44	0.18	0.18	ND	U	0.22	0.087	0.087
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.041	0.041	ND	U	0.44	0.082	0.082	ND	U	0.22	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	0.55	0.074	0.074	ND	UJ	1.1	0.15	0.15	ND	UJ	0.55	0.073	0.073
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.047	0.047	ND	U	0.44	0.094	0.094	ND	U	0.22	0.046	0.046

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-10					FFOR-EXC-10					FFOR-EXC-11				
	SAMPLE NO		FFOR-CF-0010					FFOR-CF-0011					FFOR-CF-0012				
	SAMPLE DATE		1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.049	0.049	ND	U	0.44	0.099	0.099	ND	U	0.22	0.049	0.049
	CHRYSENE	148	0.064	J	0.22	0.056	0.056	ND	U	0.44	0.11	0.11	ND	U	0.22	0.055	0.055
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.065	0.065	ND	U	0.44	0.13	0.13	ND	U	0.22	0.065	0.065
	DIBENZOFURAN	78	ND	U	0.22	0.073	0.073	ND	U	0.44	0.15	0.15	ND	U	0.22	0.073	0.073
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.049	0.049	ND	U	0.44	0.099	0.099	ND	U	0.22	0.049	0.049
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.061	0.061	ND	U	0.44	0.12	0.12	ND	U	0.22	0.061	0.061
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.55	0.049	0.049	ND	U	1.1	0.099	0.099	ND	U	0.55	0.049	0.049
	DI-N-OCTYL PHTHALATE	610	ND	U	0.44	0.27	0.27	ND	U	0.88	0.55	0.55	ND	U	0.44	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.22	0.049	0.049	ND	U	0.44	0.099	0.099	ND	U	0.22	0.049	0.049
	FLUORENE	2,290	ND	U	0.22	0.064	0.064	ND	U	0.44	0.13	0.13	ND	U	0.22	0.064	0.064
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.06	0.06	ND	U	0.44	0.12	0.12	ND	U	0.22	0.059	0.059
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.053	0.053	ND	U	0.44	0.11	0.11	ND	U	0.22	0.052	0.052
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.071	0.071	ND	U	0.44	0.14	0.14	ND	U	0.22	0.071	0.071
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.077	0.077	ND	U	0.44	0.15	0.15	ND	U	0.22	0.076	0.076
	INDENO(1,2,3-CD)PYRENE	1.48	0.16	J	0.22	0.073	0.073	0.17	J	0.44	0.15	0.15	ND	U	0.22	0.072	0.072
	ISOPHORONE	5,120	ND	U	0.55	0.072	0.072	ND	U	1.1	0.14	0.14	ND	U	0.55	0.072	0.072
	NAPHTHALENE	43	ND	U	0.22	0.052	0.052	ND	U	0.44	0.1	0.1	ND	U	0.22	0.052	0.052
	NITROBENZENE	53.5	ND	U	0.55	0.061	0.061	ND	U	1.1	0.12	0.12	ND	U	0.55	0.061	0.061
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.083	0.083	ND	U	0.44	0.17	0.17	ND	U	0.22	0.082	0.082
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.073	0.073	ND	U	0.44	0.15	0.15	ND	U	0.22	0.072	0.072
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.064	0.064	ND	U	0.44	0.13	0.13	ND	U	0.22	0.064	0.064
	PENTACHLOROPHENOL	8.94	ND	U	0.44	0.089	0.089	ND	U	0.88	0.18	0.18	ND	U	0.44	0.088	0.088
	PHENANTHRENE	1,830	ND	U	0.22	0.04	0.04	ND	U	0.44	0.08	0.08	ND	U	0.22	0.039	0.039
	PHENOL	18,300	ND	U	0.22	0.064	0.064	ND	U	0.44	0.13	0.13	ND	U	0.22	0.064	0.064
	PYRENE	1,720	0.064	J	0.22	0.059	0.059	ND	U	0.44	0.12	0.12	ND	U	0.22	0.059	0.059
	PYRIDINE	78	ND	U	0.55	0.061	0.061	ND	U	1.1	0.12	0.12	ND	U	0.55	0.06	0.06
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-10					FFOR-EXC-10					FFOR-EXC-11				
	SAMPLE NO		FFOR-CF-0010					FFOR-CF-0011					FFOR-CF-0012				
	SAMPLE DATE		1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1-DICHLOROETHANE	64.5	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1-DICHLOROETHENE	449	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,1-DICHLOROPROPENE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2-DIBROMOETHANE	0.588	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2-DICHLOROETHANE	7.89	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,3-DICHLOROBENZENE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	2,2-DICHLOROPROPANE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	2-BUTANONE	37,100	ND	U	0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	2-CHLOROTOLUENE	1,560	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	2-HEXANONE	210	ND	U	0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	4-CHLOROTOLUENE	1,600	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	ACETONE	66,600	0.00986		0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	BENZENE	15.4	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	BROMOBENZENE	300	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	BROMOCHLOROMETHANE	160	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	BROMODICHLOROMETHANE	5.41	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	BROMOFORM	616	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	BROMOMETHANE	16.5	ND	U	0.00399	0.000798	0.000798	ND	U	0.00332	0.000663	0.000663	ND	U	0.00331	0.000663	0.000663
	CARBON DISULFIDE	1,530	ND	U	0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	CARBON TETRACHLORIDE	10.8	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CHLOROBENZENE	376	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CHLOROETHANE	29,800	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CHLOROFORM	5.86	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CHLOROMETHANE	275	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	DIBROMOMETHANE	51.6	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	ETHYLBENZENE	68.4	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-10					FFOR-EXC-10					FFOR-EXC-11				
	SAMPLE NO	FFOR-CF-0010					FFOR-CF-0011					FFOR-CF-0012				
	SAMPLE DATE	1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE	REG					FD					REG				
	SAMPLE DEPTH	5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	METHYL TERT-BUTYL ETHER	901	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	METHYLENE CHLORIDE	409	ND	U	0.00399	0.0016	0.0016	ND	U	0.00332	0.00133	0.00133	ND	U	0.00331	0.00133	0.00133
	NAPHTHALENE	43	ND	U	0.0016	0.0016	0.0016	ND	U	0.00133	0.00133	0.00133	ND	U	0.00133	0.00133	0.00133
	N-BUTYLBENZENE	3,900	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	N-PROPYLBENZENE	3,400	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	SEC-BUTYLBENZENE	7,800	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	STYRENE	7,280	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TERT-BUTYLBENZENE	7,800	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TETRACHLOROETHENE	7.02	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TOLUENE	5,270	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TRICHLOROETHENE	8.77	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	VINYL ACETATE	2,560	ND	U	0.00798	0.00798	0.00798	ND	U	0.00663	0.00663	0.00663	ND	U	0.00663	0.00663	0.00663
	VINYL CHLORIDE	0.728	ND	U	0.0016	0.000798	0.000798	ND	U	0.00133	0.000663	0.000663	ND	U	0.00133	0.000663	0.000663
	XYLENES	814	ND	U	0.0016	0.0016	0.0016	ND	U	0.00133	0.00133	0.00133	ND	U	0.00133	0.00133	0.00133

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-12					FFOR-EXC-13					FFOR-EXC-14				
	SAMPLE NO	FFOR-CF-0013					FFOR-CF-0014					FFOR-CF-0015				
	SAMPLE DATE	1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					5FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	14		0.27	0.2	0.2	42		0.27	0.2	0.2	3.4		0.27	0.2	0.2
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6.1	6.1	36		11	5.9	5.9	ND	U	11	6.2	6.2
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.6	0.47	0.47	ND	U	3.9	0.51	0.51	ND	U	4.1	0.54	0.54
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	55	55	55	67		53	53	53	ND	U	56	56	56
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.44	0.13	0.13	ND	U	0.43	0.12	0.12	ND	U	0.22	0.065	0.065
	1,2-DICHLOROBENZENE	2,310	ND	U	0.44	0.085	0.085	ND	U	0.43	0.084	0.084	ND	U	0.22	0.044	0.044
	1,3-DICHLOROBENZENE	NE	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.064	0.064
	1,4-DICHLOROBENZENE	31.7	ND	U	0.44	0.14	0.14	ND	U	0.43	0.13	0.13	ND	U	0.22	0.07	0.07
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.44	0.097	0.097	ND	U	0.43	0.096	0.096	ND	U	0.22	0.05	0.05
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.062	0.062
	2,4-DICHLOROPHENOL	183	ND	U	0.87	0.13	0.13	ND	U	0.86	0.13	0.13	ND	U	0.45	0.069	0.069
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.66	0.13	0.13	ND	U	0.65	0.13	0.13	ND	U	0.34	0.067	0.067
	2,4-DINITROPHENOL	122	ND	U	1.1	0.15	0.15	ND	U	1.1	0.15	0.15	ND	U	0.56	0.079	0.079
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.16	0.16	ND	U	1.1	0.16	0.16	ND	U	0.56	0.083	0.083
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.13	0.13	ND	U	1.1	0.13	0.13	ND	U	0.56	0.067	0.067
	2-CHLORONAPHTHALENE	6,260	ND	U	0.55	0.12	0.12	ND	U	0.54	0.12	0.12	ND	U	0.28	0.064	0.064
	2-CHLOROPHENOL	391	ND	U	0.44	0.14	0.14	ND	U	0.43	0.13	0.13	ND	U	0.22	0.07	0.07
	2-METHYLNAPHTHALENE	230	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.067	0.067
	2-METHYLPHENOL	3,100	ND	U	1.1	0.13	0.13	ND	U	1.1	0.12	0.12	ND	U	0.56	0.064	0.064
	2-NITROANILINE	610	ND	U	0.44	0.11	0.11	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054
	2-NITROPHENOL	NE	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.062	0.062
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.55	0.12	0.12	ND	U	0.54	0.12	0.12	ND	U	0.28	0.062	0.062
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.44	0.15	0.15	ND	U	0.43	0.15	0.15	ND	U	0.22	0.076	0.076
	3-NITROANILINE	NE	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.089	0.089	ND	U	1.1	0.089	0.089	ND	U	0.56	0.046	0.046
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.44	0.11	0.11	ND	U	0.43	0.11	0.11	ND	U	0.22	0.057	0.057
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.12	0.12	ND	U	1.1	0.11	0.11	ND	U	0.56	0.059	0.059
	4-CHLOROANILINE	2.4	ND	U	1.1	0.12	0.12	ND	U	1.1	0.11	0.11	ND	U	0.56	0.059	0.059
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.064	0.064
	4-NITROANILINE	24	ND	U	0.87	0.11	0.11	ND	U	0.86	0.1	0.1	ND	U	0.45	0.054	0.054
	4-NITROPHENOL	NE	ND	U	0.55	0.13	0.13	ND	U	0.54	0.13	0.13	ND	U	0.28	0.069	0.069
	ACENAPHTHENE	3440	ND	U	0.44	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054
	ACENAPHTHYLENE	NE	ND	U	0.44	0.11	0.11	ND	U	0.43	0.11	0.11	ND	U	0.22	0.055	0.055
	ANTHRACENE	17,200	ND	U	0.44	0.095	0.095	ND	U	0.43	0.093	0.093	ND	U	0.22	0.049	0.049
	BENZENAMINE	85	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066
	BENZO(A)ANTHRACENE	1.48	0.2	J	0.44	0.12	0.12	0.34	J	0.43	0.12	0.12	ND	U	0.22	0.061	0.061
	BENZO(A)PYRENE	0.148	**0.15**	J	0.44	0.13	0.13	**0.55**		0.43	0.13	0.13	ND	U	0.22	0.068	0.068
	BENZO(B)FLUORANTHENE	1.48	0.17	J	0.44	0.15	0.15	0.77		0.43	0.15	0.15	ND	U	0.22	0.077	0.077
	BENZO(GHI)PERYLENE	NE	0.3	J	0.44	0.13	0.13	1.4		0.43	0.13	0.13	ND	U	0.22	0.068	0.068
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.44	0.17	0.17	0.28	J	0.43	0.16	0.16	ND	U	0.22	0.085	0.085
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.44	0.15	0.15	ND	U	0.43	0.15	0.15	ND	U	0.22	0.076	0.076
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.44	0.18	0.18	ND	U	0.43	0.17	0.17	ND	U	0.22	0.09	0.09
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.44	0.081	0.081	ND	U	0.43	0.08	0.08	ND	U	0.22	0.042	0.042
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	1.1	0.15	0.15	ND	UJ	1.1	0.15	0.15	ND	UJ	0.56	0.076	0.076
	BUTYL BENZYL PHTHALATE	260	ND	U	0.44	0.093	0.093	ND	U	0.43	0.092	0.092	ND	U	0.22	0.048	0.048

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-12					FFOR-EXC-13					FFOR-EXC-14				
	SAMPLE NO		FFOR-CF-0013					FFOR-CF-0014					FFOR-CF-0015				
	SAMPLE DATE		1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.44	0.098	0.098	ND	U	0.43	0.097	0.097	ND	U	0.22	0.05	0.05
	CHRYSENE	148	0.14	J	0.44	0.11	0.11	0.65		0.43	0.11	0.11	ND	U	0.22	0.057	0.057
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.44	0.13	0.13	**0.33**	J	0.43	0.13	0.13	ND	U	0.22	0.067	0.067
	DIBENZOFURAN	78	ND	U	0.44	0.15	0.15	ND	U	0.43	0.14	0.14	ND	U	0.22	0.075	0.075
	DIETHYL PHTHALATE	48,900	ND	U	0.44	0.098	0.098	ND	U	0.43	0.097	0.097	ND	U	0.22	0.05	0.05
	DIMETHYL PHTHALATE	611,000	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.062	0.062
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.098	0.098	ND	U	1.1	0.097	0.097	ND	U	0.56	0.051	0.051
	DI-N-OCTYL PHTHALATE	610	ND	U	0.87	0.55	0.55	ND	U	0.86	0.54	0.54	ND	U	0.45	0.28	0.28
	FLUORANTHENE	2,290	ND	U	0.44	0.098	0.098	0.35	J	0.43	0.097	0.097	ND	U	0.22	0.05	0.05
	FLUORENE	2,290	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066
	HEXACHLOROBENZENE	3.04	ND	U	0.44	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061
	HEXACHLOROBUTADIENE	61.1	ND	U	0.44	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.44	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.073	0.073
	HEXACHLOROETHANE	42.8	ND	U	0.44	0.15	0.15	ND	U	0.43	0.15	0.15	ND	U	0.22	0.079	0.079
	INDENO(1,2,3-CD)PYRENE	1.48	0.22	J	0.44	0.14	0.14	1.2		0.43	0.14	0.14	ND	U	0.22	0.074	0.074
	ISOPHORONE	5,120	ND	U	1.1	0.14	0.14	ND	U	1.1	0.14	0.14	ND	U	0.56	0.074	0.074
	NAPHTHALENE	43	ND	U	0.44	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.053	0.053
	NITROBENZENE	53.5	ND	U	1.1	0.12	0.12	ND	U	1.1	0.12	0.12	ND	U	0.56	0.063	0.063
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.44	0.16	0.16	ND	U	0.43	0.16	0.16	ND	U	0.22	0.085	0.085
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.44	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.075	0.075
	N-NITROSODIPHENYLAMINE	993	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066
	PENTACHLOROPHENOL	8.94	ND	U	0.87	0.18	0.18	ND	U	0.86	0.18	0.18	ND	U	0.45	0.091	0.091
	PHENANTHRENE	1,830	ND	U	0.44	0.079	0.079	ND	U	0.43	0.078	0.078	ND	U	0.22	0.041	0.041
	PHENOL	18,300	ND	U	0.44	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066
	PYRENE	1,720	ND	U	0.44	0.12	0.12	0.44		0.43	0.12	0.12	ND	U	0.22	0.061	0.061
	PYRIDINE	78	ND	U	1.1	0.12	0.12	ND	U	1.1	0.12	0.12	ND	U	0.56	0.062	0.062
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-12					FFOR-EXC-13					FFOR-EXC-14				
	SAMPLE NO		FFOR-CF-0013					FFOR-CF-0014					FFOR-CF-0015				
	SAMPLE DATE		1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1-DICHLOROETHANE	64.5	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1-DICHLOROETHENE	449	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,1-DICHLOROPROPENE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	0.00102	J	0.00163	0.000815	0.000815
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2-DIBROMOETHANE	0.588	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2-DICHLOROETHANE	7.89	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,3-DICHLOROBENZENE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	2,2-DICHLOROPROPANE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	2-BUTANONE	37,100	ND	U	0.00717	0.00717	0.00717	ND	U	0.00798	0.00798	0.00798	ND	U	0.00815	0.00815	0.00815
	2-CHLOROTOLUENE	1,560	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	2-HEXANONE	210	ND	U	0.00717	0.00717	0.00717	ND	U	0.00798	0.00798	0.00798	ND	U	0.00815	0.00815	0.00815
	4-CHLOROTOLUENE	1,600	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00717	0.00717	0.00717	ND	U	0.00798	0.00798	0.00798	ND	U	0.00815	0.00815	0.00815
	ACETONE	66,600	ND	U	0.00717	0.00717	0.00717	0.00833		0.00798	0.00798	0.00798	0.0116		0.00815	0.00815	0.00815
	BENZENE	15.4	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	0.0023		0.00163	0.000815	0.000815
	BROMOBENZENE	300	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	BROMOCHLOROMETHANE	160	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	BROMODICHLOROMETHANE	5.41	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	BROMOFORM	616	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	BROMOMETHANE	16.5	ND	U	0.00359	0.000717	0.000717	ND	U	0.00399	0.000798	0.000798	ND	U	0.00407	0.000815	0.000815
	CARBON DISULFIDE	1,530	ND	U	0.00717	0.00717	0.00717	ND	U	0.00798	0.00798	0.00798	ND	U	0.00815	0.00815	0.00815
	CARBON TETRACHLORIDE	10.8	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CHLOROBENZENE	376	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CHLOROETHANE	29,800	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CHLOROFORM	5.86	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CHLOROMETHANE	275	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	DIBROMOMETHANE	51.6	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	ETHYLBENZENE	68.4	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-12					FFOR-EXC-13					FFOR-EXC-14				
	SAMPLE NO	FFOR-CF-0013					FFOR-CF-0014					FFOR-CF-0015				
	SAMPLE DATE	1-Jul-14					1-Jul-14					1-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					5FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	METHYLENE CHLORIDE	409	ND	U	0.00359	0.00143	0.00143	ND	U	0.0016	0.0016	0.0016	ND	U	0.00407	0.00163	0.00163
	NAPHTHALENE	43	ND	U	0.00143	0.00143	0.00143	ND	U	0.0016	0.0016	0.0016	ND	U	0.00163	0.00163	0.00163
	N-BUTYLBENZENE	3,900	ND	U	0.00143	0.000717	0.000717	ND	U	0.00399	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	N-PROPYLBENZENE	3,400	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	SEC-BUTYLBENZENE	7,800	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	STYRENE	7,280	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TERT-BUTYLBENZENE	7,800	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TETRACHLOROETHENE	7.02	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TOLUENE	5,270	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	0.00323		0.00163	0.000815	0.000815
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TRICHLOROETHENE	8.77	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	VINYL ACETATE	2,560	ND	U	0.00717	0.00717	0.00717	ND	U	0.00798	0.00798	0.00798	ND	U	0.00815	0.00815	0.00815
	VINYL CHLORIDE	0.728	ND	U	0.00143	0.000717	0.000717	ND	U	0.0016	0.000798	0.000798	ND	U	0.00163	0.000815	0.000815
	XYLENES	814	ND	U	0.00143	0.00143	0.00143	ND	U	0.0016	0.0016	0.0016	0.00254		0.00163	0.00163	0.00163

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-15					FFOR-EXC-16					FFOR-EXC-17				
	SAMPLE NO	FFOR-CF-0016					FFOR-CF-0017					FFOR-CF-0018				
	SAMPLE DATE	2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.9		0.27	0.2	0.2	1.6		0.27	0.2	0.2	1.9		0.28	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	5.9	5.9	ND	U	11	6.1	6.1	ND	U	11	6.2	6.2
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4.2	0.54	0.54	ND	U	4.3	0.56	0.56	ND	U	3.8	0.5	0.5
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	53	53	53	ND	U	56	56	56	ND	U	56	56	56
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.43	0.12	0.12	ND	U	0.22	0.065	0.065	ND	U	0.22	0.064	0.064
	1,2-DICHLOROBENZENE	2,310	ND	U	0.43	0.084	0.084	ND	U	0.22	0.044	0.044	ND	U	0.22	0.043	0.043
	1,3-DICHLOROBENZENE	NE	ND	U	0.43	0.12	0.12	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063
	1,4-DICHLOROBENZENE	31.7	ND	U	0.43	0.13	0.13	ND	U	0.22	0.069	0.069	ND	U	0.22	0.069	0.069
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.43	0.096	0.096	ND	U	0.22	0.049	0.049	ND	U	0.22	0.049	0.049
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061	ND	U	0.22	0.061	0.061
	2,4-DICHLOROPHENOL	183	ND	U	0.86	0.13	0.13	ND	U	0.45	0.069	0.069	ND	U	0.45	0.069	0.069
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.65	0.13	0.13	ND	U	0.33	0.066	0.066	ND	U	0.33	0.066	0.066
	2,4-DINITROPHENOL	122	ND	U	1.1	0.15	0.15	ND	U	0.56	0.079	0.079	ND	U	0.56	0.079	0.079
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.16	0.16	ND	U	0.56	0.082	0.082	ND	U	0.56	0.082	0.082
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.13	0.13	ND	U	0.56	0.066	0.066	ND	U	0.56	0.066	0.066
	2-CHLORONAPHTHALENE	6,260	ND	U	0.54	0.12	0.12	ND	U	0.28	0.064	0.064	ND	U	0.28	0.064	0.064
	2-CHLOROPHENOL	391	ND	U	0.43	0.13	0.13	ND	U	0.22	0.069	0.069	ND	U	0.22	0.069	0.069
	2-METHYLNAPHTHALENE	230	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066	ND	U	0.22	0.066	0.066
	2-METHYLPHENOL	3,100	ND	U	1.1	0.12	0.12	ND	U	0.56	0.064	0.064	ND	U	0.56	0.064	0.064
	2-NITROANILINE	610	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054	ND	U	0.22	0.054	0.054
	2-NITROPHENOL	NE	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061	ND	U	0.22	0.061	0.061
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.54	0.12	0.12	ND	U	0.28	0.062	0.062	ND	U	0.28	0.062	0.062
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.43	0.15	0.15	ND	U	0.22	0.075	0.075	ND	U	0.22	0.075	0.075
	3-NITROANILINE	NE	ND	U	0.43	0.13	0.13	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.088	0.088	ND	U	0.56	0.046	0.046	ND	U	0.56	0.046	0.046
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.43	0.11	0.11	ND	U	0.22	0.056	0.056	ND	U	0.22	0.056	0.056
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.11	0.11	ND	U	0.56	0.059	0.059	ND	U	0.56	0.059	0.059
	4-CHLOROANILINE	2.4	ND	U	1.1	0.11	0.11	ND	U	0.56	0.059	0.059	ND	U	0.56	0.059	0.059
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.43	0.12	0.12	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063
	4-NITROANILINE	24	ND	U	0.86	0.1	0.1	ND	U	0.45	0.054	0.054	ND	U	0.45	0.054	0.054
	4-NITROPHENOL	NE	ND	U	0.54	0.13	0.13	ND	U	0.28	0.069	0.069	ND	U	0.28	0.069	0.069
	ACENAPHTHENE	3440	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054	ND	U	0.22	0.053	0.053
	ACENAPHTHYLENE	NE	ND	U	0.43	0.11	0.11	ND	U	0.22	0.054	0.054	ND	U	0.22	0.054	0.054
	ANTHRACENE	17,200	ND	U	0.43	0.093	0.093	ND	U	0.22	0.048	0.048	ND	U	0.22	0.048	0.048
	BENZENAMINE	85	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066	ND	U	0.22	0.066	0.066
	BENZO(A)ANTHRACENE	1.48	0.24	J	0.43	0.12	0.12	0.1	J	0.22	0.061	0.061	ND	U	0.22	0.061	0.061
	BENZO(A)PYRENE	0.148	**0.16**	J	0.43	0.13	0.13	ND	U	0.22	0.067	0.067	ND	U	0.22	0.067	0.067
	BENZO(B)FLUORANTHENE	1.48	0.26	J	0.43	0.15	0.15	ND	U	0.22	0.077	0.077	ND	U	0.22	0.077	0.077
	BENZO(GHI)PERYLENE	NE	0.14	J	0.43	0.13	0.13	ND	U	0.22	0.068	0.068	ND	U	0.22	0.068	0.068
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.43	0.16	0.16	ND	U	0.22	0.085	0.085	ND	U	0.22	0.085	0.085
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.43	0.15	0.15	ND	U	0.22	0.075	0.075	ND	U	0.22	0.075	0.075
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.43	0.17	0.17	ND	U	0.22	0.09	0.09	ND	U	0.22	0.089	0.089
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.43	0.08	0.08	ND	U	0.22	0.041	0.041	ND	U	0.22	0.041	0.041
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1.1	0.15	0.15	ND	U	0.56	0.075	0.075	ND	U	0.56	0.075	0.075
	BUTYL BENZYL PHTHALATE	260	ND	U	0.43	0.092	0.092	ND	U	0.22	0.047	0.047	ND	U	0.22	0.047	0.047

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-15					FFOR-EXC-16					FFOR-EXC-17				
	SAMPLE NO		FFOR-CF-0016					FFOR-CF-0017					FFOR-CF-0018				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.43	0.097	0.097	ND	U	0.22	0.05	0.05	ND	U	0.22	0.05	0.05
	CHRYSENE	148	0.19	J	0.43	0.11	0.11	ND	U	0.22	0.057	0.057	ND	U	0.22	0.057	0.057
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.43	0.13	0.13	ND	U	0.22	0.066	0.066	ND	U	0.22	0.066	0.066
	DIBENZOFURAN	78	ND	U	0.43	0.14	0.14	ND	U	0.22	0.075	0.075	ND	U	0.22	0.075	0.075
	DIETHYL PHTHALATE	48,900	ND	U	0.43	0.097	0.097	ND	U	0.22	0.05	0.05	ND	U	0.22	0.05	0.05
	DIMETHYL PHTHALATE	611,000	ND	U	0.43	0.12	0.12	ND	U	0.22	0.062	0.062	ND	U	0.22	0.062	0.062
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.097	0.097	ND	U	0.56	0.05	0.05	ND	U	0.56	0.05	0.05
	DI-N-OCTYL PHTHALATE	610	ND	U	0.86	0.54	0.54	ND	U	0.45	0.28	0.28	ND	U	0.45	0.28	0.28
	FLUORANTHENE	2,290	0.28	J	0.43	0.097	0.097	ND	U	0.22	0.05	0.05	ND	U	0.22	0.05	0.05
	FLUORENE	2,290	ND	U	0.43	0.13	0.13	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065
	HEXACHLOROBENZENE	3.04	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061	ND	U	0.22	0.061	0.061
	HEXACHLOROBUTADIENE	61.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.054	0.054	ND	U	0.22	0.053	0.053
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.43	0.14	0.14	ND	U	0.22	0.072	0.072	ND	U	0.22	0.072	0.072
	HEXACHLOROETHANE	42.8	ND	U	0.43	0.15	0.15	ND	U	0.22	0.078	0.078	ND	U	0.22	0.078	0.078
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.43	0.14	0.14	ND	U	0.22	0.074	0.074	ND	U	0.22	0.074	0.074
	ISOPHORONE	5,120	ND	U	1.1	0.14	0.14	ND	U	0.56	0.073	0.073	ND	U	0.56	0.073	0.073
	NAPHTHALENE	43	ND	U	0.43	0.1	0.1	ND	U	0.22	0.053	0.053	ND	U	0.22	0.053	0.053
	NITROBENZENE	53.5	ND	U	1.1	0.12	0.12	ND	U	0.56	0.062	0.062	ND	U	0.56	0.062	0.062
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.43	0.16	0.16	ND	U	0.22	0.084	0.084	ND	U	0.22	0.084	0.084
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.43	0.14	0.14	ND	U	0.22	0.074	0.074	ND	U	0.22	0.074	0.074
	N-NITROSODIPHENYLAMINE	993	ND	U	0.43	0.13	0.13	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065
	PENTACHLOROPHENOL	8.94	ND	U	0.86	0.18	0.18	ND	U	0.45	0.091	0.091	ND	U	0.45	0.09	0.09
	PHENANTHRENE	1,830	0.14	J	0.43	0.078	0.078	ND	U	0.22	0.04	0.04	ND	U	0.22	0.04	0.04
	PHENOL	18,300	ND	U	0.43	0.13	0.13	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065
	PYRENE	1,720	0.25	J	0.43	0.12	0.12	ND	U	0.22	0.06	0.06	ND	U	0.22	0.06	0.06
	PYRIDINE	78	ND	U	1.1	0.12	0.12	ND	U	0.56	0.062	0.062	ND	U	0.56	0.062	0.062
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-15					FFOR-EXC-16					FFOR-EXC-17				
	SAMPLE NO		FFOR-CF-0016					FFOR-CF-0017					FFOR-CF-0018				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1-DICHLOROETHANE	64.5	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1-DICHLOROETHENE	449	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,1-DICHLOROPROPENE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2-DIBROMOETHANE	0.588	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2-DICHLOROETHANE	7.89	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,3-DICHLOROBENZENE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	2,2-DICHLOROPROPANE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	2-BUTANONE	37,100	ND	U	0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	2-CHLOROTOLUENE	1,560	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	2-HEXANONE	210	ND	U	0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	4-CHLOROTOLUENE	1,600	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	ACETONE	66,600	0.00836		0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	BENZENE	15.4	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	BROMOBENZENE	300	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	BROMOCHLOROMETHANE	160	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	BROMODICHLOROMETHANE	5.41	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	BROMOFORM	616	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	BROMOMETHANE	16.5	ND	U	0.00401	0.000802	0.000802	ND	U	0.00348	0.000696	0.000696	ND	U	0.00373	0.000747	0.000747
	CARBON DISULFIDE	1,530	ND	U	0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	CARBON TETRACHLORIDE	10.8	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CHLOROBENZENE	376	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CHLOROETHANE	29,800	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CHLOROFORM	5.86	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CHLOROMETHANE	275	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	DIBROMOMETHANE	51.6	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	ETHYLBENZENE	68.4	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-15					FFOR-EXC-16					FFOR-EXC-17				
	SAMPLE NO	FFOR-CF-0016					FFOR-CF-0017					FFOR-CF-0018				
	SAMPLE DATE	2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.0016	0.000802	0.000802	ND	UJ	0.00139	0.000696	0.000696	ND	UJ	0.00149	0.000747	0.000747
	METHYLENE CHLORIDE	409	ND	U	0.00401	0.0016	0.0016	ND	U	0.00348	0.00139	0.00139	ND	U	0.00373	0.00149	0.00149
	NAPHTHALENE	43	ND	U	0.0016	0.0016	0.0016	ND	U	0.00139	0.00139	0.00139	ND	U	0.00149	0.00149	0.00149
	N-BUTYLBENZENE	3,900	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	N-PROPYLBENZENE	3,400	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	SEC-BUTYLBENZENE	7,800	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	STYRENE	7,280	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TERT-BUTYLBENZENE	7,800	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TETRACHLOROETHENE	7.02	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TOLUENE	5,270	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TRICHLOROETHENE	8.77	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	VINYL ACETATE	2,560	ND	U	0.00802	0.00802	0.00802	ND	U	0.00696	0.00696	0.00696	ND	U	0.00747	0.00747	0.00747
	VINYL CHLORIDE	0.728	ND	U	0.0016	0.000802	0.000802	ND	U	0.00139	0.000696	0.000696	ND	U	0.00149	0.000747	0.000747
	XYLENES	814	ND	U	0.0016	0.0016	0.0016	ND	U	0.00139	0.00139	0.00139	ND	U	0.00149	0.00149	0.00149

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-18					FFOR-EXC-19					FFOR-EXC-20				
	SAMPLE NO		FFOR-CF-0019					FFOR-CF-0020					FFOR-CF-0021				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					10 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	5.3		0.27	0.2	0.2	3.5		0.29	0.21	0.21	1.3		0.29	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6	6	ND	U	12	6.4	6.4	ND	U	12	6.6	6.6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.9	0.51	0.51	ND	U	4	0.52	0.52	ND	U	4.6	0.6	0.6
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	58	58	58	ND	U	59	59	59
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.44	0.13	0.13	ND	U	0.23	0.067	0.067	ND	U	0.23	0.068	0.068
	1,2-DICHLOROBENZENE	2,310	ND	U	0.44	0.086	0.086	ND	U	0.23	0.046	0.046	ND	U	0.23	0.046	0.046
	1,3-DICHLOROBENZENE	NE	ND	U	0.44	0.12	0.12	ND	U	0.23	0.066	0.066	ND	U	0.23	0.066	0.066
	1,4-DICHLOROBENZENE	31.7	ND	U	0.44	0.14	0.14	ND	U	0.23	0.072	0.072	ND	U	0.23	0.073	0.073
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.44	0.097	0.097	ND	U	0.23	0.052	0.052	ND	U	0.23	0.052	0.052
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.44	0.12	0.12	ND	U	0.23	0.064	0.064	ND	U	0.23	0.064	0.064
	2,4-DICHLOROPHENOL	183	ND	U	0.88	0.14	0.14	ND	U	0.47	0.072	0.072	ND	U	0.47	0.072	0.072
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.66	0.13	0.13	ND	U	0.35	0.07	0.07	ND	U	0.35	0.07	0.07
	2,4-DINITROPHENOL	122	ND	U	1.1	0.15	0.15	ND	U	0.58	0.082	0.082	ND	U	0.59	0.083	0.083
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.16	0.16	ND	U	0.58	0.086	0.086	ND	U	0.59	0.087	0.087
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.13	0.13	ND	U	0.58	0.069	0.069	ND	U	0.59	0.07	0.07
	2-CHLORONAPHTHALENE	6,260	ND	U	0.55	0.13	0.13	ND	U	0.29	0.067	0.067	ND	U	0.29	0.067	0.067
	2-CHLOROPHENOL	391	ND	U	0.44	0.14	0.14	ND	U	0.23	0.073	0.073	ND	U	0.23	0.073	0.073
	2-METHYLNAPHTHALENE	230	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069	ND	U	0.23	0.07	0.07
	2-METHYLPHENOL	3,100	ND	U	1.1	0.13	0.13	ND	U	0.58	0.067	0.067	ND	U	0.59	0.067	0.067
	2-NITROANILINE	610	ND	U	0.44	0.11	0.11	ND	U	0.23	0.056	0.056	ND	U	0.23	0.057	0.057
	2-NITROPHENOL	NE	ND	U	0.44	0.12	0.12	ND	U	0.23	0.064	0.064	ND	U	0.23	0.065	0.065
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.55	0.12	0.12	ND	U	0.29	0.065	0.065	ND	U	0.29	0.065	0.065
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.44	0.15	0.15	ND	U	0.23	0.079	0.079	ND	U	0.23	0.079	0.079
	3-NITROANILINE	NE	ND	U	0.44	0.13	0.13	ND	U	0.23	0.068	0.068	ND	U	0.23	0.068	0.068
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.09	0.09	ND	U	0.58	0.048	0.048	ND	U	0.59	0.048	0.048
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.44	0.11	0.11	ND	U	0.23	0.059	0.059	ND	U	0.23	0.059	0.059
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.12	0.12	ND	U	0.58	0.062	0.062	ND	U	0.59	0.062	0.062
	4-CHLOROANILINE	2.4	ND	U	1.1	0.12	0.12	ND	U	0.58	0.062	0.062	ND	U	0.59	0.062	0.062
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.44	0.12	0.12	ND	U	0.23	0.066	0.066	ND	U	0.23	0.067	0.067
	4-NITROANILINE	24	ND	U	0.88	0.11	0.11	ND	U	0.47	0.056	0.056	ND	U	0.47	0.056	0.056
	4-NITROPHENOL	NE	ND	U	0.55	0.14	0.14	ND	U	0.29	0.072	0.072	ND	U	0.29	0.072	0.072
	ACENAPHTHENE	3440	ND	U	0.44	0.11	0.11	ND	U	0.23	0.056	0.056	ND	U	0.23	0.056	0.056
	ACENAPHTHYLENE	NE	ND	U	0.44	0.11	0.11	ND	U	0.23	0.057	0.057	ND	U	0.23	0.057	0.057
	ANTHRACENE	17,200	ND	U	0.44	0.095	0.095	ND	U	0.23	0.051	0.051	ND	U	0.23	0.051	0.051
	BENZENAMINE	85	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069	ND	U	0.23	0.069	0.069
	BENZO(A)ANTHRACENE	1.48	0.21	J	0.44	0.12	0.12	ND	U	0.23	0.063	0.063	ND	U	0.23	0.064	0.064
	BENZO(A)PYRENE	0.148	ND	U	0.44	0.13	0.13	ND	U	0.23	0.07	0.07	ND	U	0.23	0.071	0.071
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.44	0.15	0.15	ND	U	0.23	0.08	0.08	ND	U	0.23	0.081	0.081
	BENZO(GHI)PERYLENE	NE	ND	U	0.44	0.13	0.13	ND	U	0.23	0.071	0.071	ND	U	0.23	0.071	0.071
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.44	0.17	0.17	ND	U	0.23	0.089	0.089	ND	U	0.23	0.089	0.089
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.44	0.15	0.15	ND	U	0.23	0.079	0.079	ND	U	0.23	0.079	0.079
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.44	0.18	0.18	ND	U	0.23	0.094	0.094	ND	U	0.23	0.094	0.094
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.44	0.082	0.082	ND	U	0.23	0.043	0.043	ND	U	0.23	0.044	0.044
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1.1	0.15	0.15	ND	U	0.58	0.079	0.079	ND	U	0.59	0.079	0.079
	BUTYL BENZYL PHTHALATE	260	ND	U	0.44	0.093	0.093	ND	U	0.23	0.05	0.05	ND	U	0.23	0.05	0.05

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-18					FFOR-EXC-19					FFOR-EXC-20				
	SAMPLE NO		FFOR-CF-0019					FFOR-CF-0020					FFOR-CF-0021				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					10 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.44	0.098	0.098	ND	U	0.23	0.052	0.052	ND	U	0.23	0.053	0.053
	CHRYSENE	148	ND	U	0.44	0.11	0.11	ND	U	0.23	0.059	0.059	ND	U	0.23	0.06	0.06
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069	ND	U	0.23	0.07	0.07
	DIBENZOFURAN	78	ND	U	0.44	0.15	0.15	ND	U	0.23	0.078	0.078	ND	U	0.23	0.079	0.079
	DIETHYL PHTHALATE	48,900	ND	U	0.44	0.099	0.099	ND	U	0.23	0.052	0.052	ND	U	0.23	0.053	0.053
	DIMETHYL PHTHALATE	611,000	ND	U	0.44	0.12	0.12	ND	U	0.23	0.065	0.065	ND	U	0.23	0.065	0.065
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.099	0.099	ND	U	0.58	0.053	0.053	ND	U	0.59	0.053	0.053
	DI-N-OCTYL PHTHALATE	610	ND	U	0.88	0.55	0.55	ND	U	0.47	0.29	0.29	ND	U	0.47	0.29	0.29
	FLUORANTHENE	2,290	ND	U	0.44	0.098	0.098	ND	U	0.23	0.052	0.052	ND	U	0.23	0.053	0.053
	FLUORENE	2,290	ND	U	0.44	0.13	0.13	ND	U	0.23	0.068	0.068	ND	U	0.23	0.069	0.069
	HEXACHLOROBENZENE	3.04	ND	U	0.44	0.12	0.12	ND	U	0.23	0.064	0.064	ND	U	0.23	0.064	0.064
	HEXACHLOROBUTADIENE	61.1	ND	U	0.44	0.11	0.11	ND	U	0.23	0.056	0.056	ND	U	0.23	0.056	0.056
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.44	0.14	0.14	ND	U	0.23	0.076	0.076	ND	U	0.23	0.076	0.076
	HEXACHLOROETHANE	42.8	ND	U	0.44	0.15	0.15	ND	U	0.23	0.082	0.082	ND	U	0.23	0.082	0.082
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.44	0.15	0.15	ND	U	0.23	0.077	0.077	ND	U	0.23	0.078	0.078
	ISOPHORONE	5,120	ND	U	1.1	0.14	0.14	ND	U	0.58	0.077	0.077	ND	U	0.59	0.077	0.077
	NAPHTHALENE	43	ND	U	0.44	0.1	0.1	ND	U	0.23	0.056	0.056	ND	U	0.23	0.056	0.056
	NITROBENZENE	53.5	ND	U	1.1	0.12	0.12	ND	U	0.58	0.065	0.065	ND	U	0.59	0.066	0.066
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.44	0.17	0.17	ND	U	0.23	0.088	0.088	ND	U	0.23	0.089	0.089
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.44	0.15	0.15	ND	U	0.23	0.077	0.077	ND	U	0.23	0.078	0.078
	N-NITROSODIPHENYLAMINE	993	ND	U	0.44	0.13	0.13	ND	U	0.23	0.068	0.068	ND	U	0.23	0.069	0.069
	PENTACHLOROPHENOL	8.94	ND	U	0.88	0.18	0.18	ND	U	0.47	0.095	0.095	ND	U	0.47	0.095	0.095
	PHENANTHRENE	1,830	ND	U	0.44	0.08	0.08	ND	U	0.23	0.042	0.042	ND	U	0.23	0.043	0.043
	PHENOL	18,300	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069	ND	U	0.23	0.069	0.069
	PYRENE	1,720	ND	U	0.44	0.12	0.12	ND	U	0.23	0.063	0.063	ND	U	0.23	0.064	0.064
	PYRIDINE	78	ND	U	1.1	0.12	0.12	ND	U	0.58	0.065	0.065	ND	U	0.59	0.065	0.065
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-18					FFOR-EXC-19					FFOR-EXC-20				
	SAMPLE NO		FFOR-CF-0019					FFOR-CF-0020					FFOR-CF-0021				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		5 FT					10 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1-DICHLOROETHANE	64.5	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1-DICHLOROETHENE	449	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,1-DICHLOROPROPENE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2-DIBROMOETHANE	0.588	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2-DICHLOROETHANE	7.89	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,3-DICHLOROBENZENE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	2,2-DICHLOROPROPANE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	2-BUTANONE	37,100	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	2-CHLOROTOLUENE	1,560	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	2-HEXANONE	210	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	4-CHLOROTOLUENE	1,600	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	ACETONE	66,600	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	BENZENE	15.4	ND	U	0.00138	0.000688	0.000688	0.00084	J	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	BROMOBENZENE	300	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	BROMOCHLOROMETHANE	160	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	BROMODICHLOROMETHANE	5.41	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	BROMOFORM	616	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	BROMOMETHANE	16.5	ND	U	0.00344	0.000688	0.000688	ND	U	0.00363	0.000726	0.000726	ND	U	0.00409	0.000818	0.000818
	CARBON DISULFIDE	1,530	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	CARBON TETRACHLORIDE	10.8	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CHLOROBENZENE	376	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CHLOROETHANE	29,800	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CHLOROFORM	5.86	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CHLOROMETHANE	275	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	DIBROMOMETHANE	51.6	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	ETHYLBENZENE	68.4	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-18					FFOR-EXC-19					FFOR-EXC-20				
	SAMPLE NO	FFOR-CF-0019					FFOR-CF-0020					FFOR-CF-0021				
	SAMPLE DATE	2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	5 FT					10 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.00138	0.000688	0.000688	ND	UJ	0.00145	0.000726	0.000726	ND	UJ	0.00164	0.000818	0.000818
	METHYLENE CHLORIDE	409	ND	U	0.00344	0.00138	0.00138	ND	U	0.00363	0.00145	0.00145	ND	U	0.00409	0.00164	0.00164
	NAPHTHALENE	43	ND	U	0.00138	0.00138	0.00138	ND	U	0.00145	0.00145	0.00145	ND	U	0.00164	0.00164	0.00164
	N-BUTYLBENZENE	3,900	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	N-PROPYLBENZENE	3,400	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	SEC-BUTYLBENZENE	7,800	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	STYRENE	7,280	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TERT-BUTYLBENZENE	7,800	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TETRACHLOROETHENE	7.02	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TOLUENE	5,270	ND	U	0.00138	0.000688	0.000688	0.00129	J	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TRICHLOROETHENE	8.77	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	VINYL ACETATE	2,560	ND	U	0.00688	0.00688	0.00688	ND	U	0.00726	0.00726	0.00726	ND	U	0.00818	0.00818	0.00818
	VINYL CHLORIDE	0.728	ND	U	0.00138	0.000688	0.000688	ND	U	0.00145	0.000726	0.000726	ND	U	0.00164	0.000818	0.000818
	XYLENES	814	ND	U	0.00138	0.00138	0.00138	ND	U	0.00145	0.00145	0.00145	ND	U	0.00164	0.00164	0.00164

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-20					FFOR-EXC-21					FFOR-EXC-22				
	SAMPLE NO		FFOR-CF-0022					FFOR-CF-0023					FFOR-CF-0024				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	1.1		0.29	0.21	0.21	2.9		0.28	0.21	0.21	6.5		0.28	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	12	6.4	6.4	ND	U	11	6.2	6.2	ND	U	11	6.1	6.1
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4.2	0.54	0.54	ND	U	4	0.53	0.53	ND	U	4.1	0.53	0.53
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	58	58	58	ND	U	56	56	56	ND	U	55	55	55
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.23	0.068	0.068	ND	U	0.22	0.065	0.065	ND	U	2.2	0.64	0.64
	1,2-DICHLOROBENZENE	2,310	ND	U	0.23	0.046	0.046	ND	U	0.22	0.044	0.044	ND	U	2.2	0.43	0.43
	1,3-DICHLOROBENZENE	NE	ND	U	0.23	0.066	0.066	ND	U	0.22	0.063	0.063	ND	U	2.2	0.62	0.62
	1,4-DICHLOROBENZENE	31.7	ND	U	0.23	0.073	0.073	ND	U	0.22	0.069	0.069	ND	U	2.2	0.69	0.69
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.23	0.052	0.052	ND	U	0.22	0.05	0.05	ND	U	2.2	0.49	0.49
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.23	0.064	0.064	ND	U	0.22	0.061	0.061	ND	U	2.2	0.6	0.6
	2,4-DICHLOROPHENOL	183	ND	U	0.47	0.072	0.072	ND	U	0.45	0.069	0.069	ND	U	4.4	0.68	0.68
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.35	0.07	0.07	ND	U	0.34	0.067	0.067	ND	U	3.3	0.66	0.66
	2,4-DINITROPHENOL	122	ND	U	0.59	0.083	0.083	ND	U	0.56	0.079	0.079	ND	U	5.5	0.78	0.78
	2,4-DINITROTOLUENE	15.7	ND	U	0.59	0.086	0.086	ND	U	0.56	0.082	0.082	ND	U	5.5	0.81	0.81
	2,6-DINITROTOLUENE	61.1	ND	U	0.59	0.07	0.07	ND	U	0.56	0.066	0.066	ND	U	5.5	0.66	0.66
	2-CHLORONAPHTHALENE	6,260	ND	U	0.29	0.067	0.067	ND	U	0.28	0.064	0.064	ND	U	2.8	0.63	0.63
	2-CHLOROPHENOL	391	ND	U	0.23	0.073	0.073	ND	U	0.22	0.07	0.07	ND	U	2.2	0.69	0.69
	2-METHYLNAPHTHALENE	230	ND	U	0.23	0.07	0.07	ND	U	0.22	0.066	0.066	ND	U	2.2	0.66	0.66
	2-METHYLPHENOL	3,100	ND	U	0.59	0.067	0.067	ND	U	0.56	0.064	0.064	ND	U	5.5	0.63	0.63
	2-NITROANILINE	610	ND	U	0.23	0.056	0.056	ND	U	0.22	0.054	0.054	ND	U	2.2	0.53	0.53
	2-NITROPHENOL	NE	ND	U	0.23	0.064	0.064	ND	U	0.22	0.061	0.061	ND	U	2.2	0.61	0.61
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.29	0.065	0.065	ND	U	0.28	0.062	0.062	ND	U	2.8	0.61	0.61
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.23	0.079	0.079	ND	U	0.22	0.075	0.075	ND	U	2.2	0.75	0.75
	3-NITROANILINE	NE	ND	U	0.23	0.068	0.068	ND	U	0.22	0.065	0.065	ND	U	2.2	0.64	0.64
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.59	0.048	0.048	ND	U	0.56	0.046	0.046	ND	U	5.5	0.45	0.45
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.23	0.059	0.059	ND	U	0.22	0.056	0.056	ND	U	2.2	0.56	0.56
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.59	0.062	0.062	ND	U	0.56	0.059	0.059	ND	U	5.5	0.58	0.58
	4-CHLOROANILINE	2.4	ND	U	0.59	0.062	0.062	ND	U	0.56	0.059	0.059	ND	U	5.5	0.58	0.58
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.23	0.066	0.066	ND	U	0.22	0.063	0.063	ND	U	2.2	0.63	0.63
	4-NITROANILINE	24	ND	U	0.47	0.056	0.056	ND	U	0.45	0.054	0.054	ND	U	4.4	0.53	0.53
	4-NITROPHENOL	NE	ND	U	0.29	0.072	0.072	ND	U	0.28	0.069	0.069	ND	U	2.8	0.68	0.68
	ACENAPHTHENE	3440	ND	U	0.23	0.056	0.056	ND	U	0.22	0.054	0.054	ND	U	2.2	0.53	0.53
	ACENAPHTHYLENE	NE	ND	U	0.23	0.057	0.057	ND	U	0.22	0.055	0.055	ND	U	2.2	0.54	0.54
	ANTHRACENE	17,200	ND	U	0.23	0.051	0.051	ND	U	0.22	0.048	0.048	ND	U	2.2	0.48	0.48
	BENZENAMINE	85	ND	U	0.23	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	2.2	0.65	0.65
	BENZO(A)ANTHRACENE	1.48	ND	U	0.23	0.064	0.064	0.11	J	0.22	0.061	0.061	1.2	J	2.2	0.6	0.6
	BENZO(A)PYRENE	0.148	ND	U	0.23	0.071	0.071	ND	U	0.22	0.067	0.067	**0.75**	J	2.2	0.67	0.67
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.23	0.08	0.08	ND	U	0.22	0.077	0.077	1.2	J	2.2	0.76	0.76
	BENZO(GHI)PERYLENE	NE	ND	U	0.23	0.071	0.071	ND	U	0.22	0.068	0.068	0.69	J	2.2	0.67	0.67
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.23	0.089	0.089	ND	U	0.22	0.085	0.085	ND	U	2.2	0.84	0.84
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.23	0.079	0.079	ND	U	0.22	0.075	0.075	ND	U	2.2	0.74	0.74
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.23	0.094	0.094	ND	U	0.22	0.09	0.09	ND	U	2.2	0.89	0.89
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.23	0.044	0.044	ND	U	0.22	0.042	0.042	ND	U	2.2	0.41	0.41
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.59	0.079	0.079	ND	U	0.56	0.075	0.075	ND	U	5.5	0.74	0.74
	BUTYL BENZYL PHTHALATE	260	ND	U	0.23	0.05	0.05	ND	U	0.22	0.048	0.048	ND	U	2.2	0.47	0.47

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-20					FFOR-EXC-21					FFOR-EXC-22				
	SAMPLE NO		FFOR-CF-0022					FFOR-CF-0023					FFOR-CF-0024				
	SAMPLE DATE		2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.23	0.053	0.053	ND	U	0.22	0.05	0.05	ND	U	2.2	0.5	0.5
	CHRYSENE	148	ND	U	0.23	0.06	0.06	0.059	J	0.22	0.057	0.057	0.71	J	2.2	0.56	0.56
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.23	0.07	0.07	ND	U	0.22	0.067	0.067	ND	U	2.2	0.66	0.66
	DIBENZOFURAN	78	ND	U	0.23	0.079	0.079	ND	U	0.22	0.075	0.075	ND	U	2.2	0.74	0.74
	DIETHYL PHTHALATE	48,900	ND	U	0.23	0.053	0.053	ND	U	0.22	0.05	0.05	ND	U	2.2	0.5	0.5
	DIMETHYL PHTHALATE	611,000	ND	U	0.23	0.065	0.065	ND	U	0.22	0.062	0.062	ND	U	2.2	0.61	0.61
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.59	0.053	0.053	ND	U	0.56	0.05	0.05	ND	U	5.5	0.5	0.5
	DI-N-OCTYL PHTHALATE	610	ND	U	0.47	0.29	0.29	ND	U	0.45	0.28	0.28	ND	U	4.4	2.8	2.8
	FLUORANTHENE	2,290	ND	U	0.23	0.053	0.053	ND	U	0.22	0.05	0.05	1.4	J	2.2	0.5	0.5
	FLUORENE	2,290	ND	U	0.23	0.068	0.068	ND	U	0.22	0.065	0.065	ND	U	2.2	0.65	0.65
	HEXACHLOROBENZENE	3.04	ND	U	0.23	0.064	0.064	ND	U	0.22	0.061	0.061	ND	U	2.2	0.6	0.6
	HEXACHLOROBUTADIENE	61.1	ND	U	0.23	0.056	0.056	ND	U	0.22	0.054	0.054	ND	U	2.2	0.53	0.53
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.23	0.076	0.076	ND	U	0.22	0.072	0.072	ND	U	2.2	0.71	0.71
	HEXACHLOROETHANE	42.8	ND	U	0.23	0.082	0.082	ND	U	0.22	0.078	0.078	ND	U	2.2	0.78	0.78
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.23	0.078	0.078	ND	U	0.22	0.074	0.074	ND	U	2.2	0.73	0.73
	ISOPHORONE	5,120	ND	U	0.59	0.077	0.077	ND	U	0.56	0.073	0.073	ND	U	5.5	0.72	0.72
	NAPHTHALENE	43	ND	U	0.23	0.056	0.056	ND	U	0.22	0.053	0.053	ND	U	2.2	0.53	0.53
	NITROBENZENE	53.5	ND	U	0.59	0.065	0.065	ND	U	0.56	0.062	0.062	ND	U	5.5	0.62	0.62
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.23	0.089	0.089	ND	U	0.22	0.084	0.084	ND	U	2.2	0.83	0.83
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.23	0.078	0.078	ND	U	0.22	0.074	0.074	ND	U	2.2	0.73	0.73
	N-NITROSODIPHENYLAMINE	993	ND	U	0.23	0.068	0.068	ND	U	0.22	0.065	0.065	ND	U	2.2	0.64	0.64
	PENTACHLOROPHENOL	8.94	ND	U	0.47	0.095	0.095	ND	U	0.45	0.091	0.091	ND	U	4.4	0.9	0.9
	PHENANTHRENE	1,830	ND	U	0.23	0.042	0.042	ND	U	0.22	0.041	0.041	0.87	J	2.2	0.4	0.4
	PHENOL	18,300	ND	U	0.23	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	2.2	0.65	0.65
	PYRENE	1,720	ND	U	0.23	0.064	0.064	ND	U	0.22	0.061	0.061	1.2	J	2.2	0.6	0.6
	PYRIDINE	78	ND	U	0.59	0.065	0.065	ND	U	0.56	0.062	0.062	ND	U	5.5	0.61	0.61
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-20					FFOR-EXC-21					FFOR-EXC-22				
	SAMPLE NO	FFOR-CF-0022					FFOR-CF-0023					FFOR-CF-0024				
	SAMPLE DATE	2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE	FD					REG					REG				
	SAMPLE DEPTH	2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1-DICHLOROETHANE	64.5	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1-DICHLOROETHENE	449	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,1-DICHLOROPROPENE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2-DIBROMOETHANE	0.588	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2-DICHLOROETHANE	7.89	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,3-DICHLOROBENZENE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	2,2-DICHLOROPROPANE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	2-BUTANONE	37,100	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	2-CHLOROTOLUENE	1,560	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	2-HEXANONE	210	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	4-CHLOROTOLUENE	1,600	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	ACETONE	66,600	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	BENZENE	15.4	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	BROMOBENZENE	300	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	BROMOCHLOROMETHANE	160	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	BROMODICHLOROMETHANE	5.41	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	BROMOFORM	616	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	BROMOMETHANE	16.5	ND	U	0.00445	0.000891	0.000891	ND	U	0.00361	0.000722	0.000722	ND	U	0.00339	0.000677	0.000677
	CARBON DISULFIDE	1,530	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	CARBON TETRACHLORIDE	10.8	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CHLOROBENZENE	376	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CHLOROETHANE	29,800	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CHLOROFORM	5.86	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CHLOROMETHANE	275	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	DIBROMOMETHANE	51.6	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	ETHYLBENZENE	68.4	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-20					FFOR-EXC-21					FFOR-EXC-22				
	SAMPLE NO	FFOR-CF-0022					FFOR-CF-0023					FFOR-CF-0024				
	SAMPLE DATE	2-Jul-14					2-Jul-14					2-Jul-14				
	SAMPLE PURPOSE	FD					REG					REG				
	SAMPLE DEPTH	2.5 FT					2.5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.00178	0.000891	0.000891	ND	UJ	0.00144	0.000722	0.000722	ND	UJ	0.00135	0.000677	0.000677
	METHYLENE CHLORIDE	409	ND	U	0.00445	0.00178	0.00178	ND	U	0.00361	0.00144	0.00144	ND	U	0.00339	0.00135	0.00135
	NAPHTHALENE	43	ND	U	0.00178	0.00178	0.00178	ND	U	0.00144	0.00144	0.00144	ND	U	0.00135	0.00135	0.00135
	N-BUTYLBENZENE	3,900	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	N-PROPYLBENZENE	3,400	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	SEC-BUTYLBENZENE	7,800	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	STYRENE	7,280	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TERT-BUTYLBENZENE	7,800	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TETRACHLOROETHENE	7.02	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TOLUENE	5,270	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TRICHLOROETHENE	8.77	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	VINYL ACETATE	2,560	ND	U	0.00891	0.00891	0.00891	ND	U	0.00722	0.00722	0.00722	ND	U	0.00677	0.00677	0.00677
	VINYL CHLORIDE	0.728	ND	U	0.00178	0.000891	0.000891	ND	U	0.00144	0.000722	0.000722	ND	U	0.00135	0.000677	0.000677
	XYLENES	814	ND	U	0.00178	0.00178	0.00178	ND	U	0.00144	0.00144	0.00144	ND	U	0.00135	0.00135	0.00135

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-23					FFOR-EXC-24					FFOR-EXC-25				
	SAMPLE NO		FFOR-CF-0025					FFOR-CF-0026					FFOR-CF-0027				
	SAMPLE DATE		2-Jul-14					2-Jul-14					3-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	1.3		0.29	0.21	0.21	2.5		0.27	0.2	0.2	7.6		0.29	0.22	0.22
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	12	6.5	6.5	ND	U	11	6.1	6.1	ND	U	12	6.6	6.6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4.3	0.57	0.57	ND	U	4.2	0.54	0.54	ND	U	3.6	0.47	0.47
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	59	59	59	ND	U	55	55	55	ND	U	59	59	59
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.24	0.068	0.068	ND	U	0.22	0.065	0.065	ND	U	0.47	0.14	0.14
	1,2-DICHLOROBENZENE	2,310	ND	U	0.24	0.046	0.046	ND	U	0.22	0.044	0.044	ND	U	0.47	0.092	0.092
	1,3-DICHLOROBENZENE	NE	ND	U	0.24	0.067	0.067	ND	U	0.22	0.064	0.064	ND	U	0.47	0.13	0.13
	1,4-DICHLOROBENZENE	31.7	ND	U	0.24	0.073	0.073	ND	U	0.22	0.07	0.07	ND	U	0.47	0.15	0.15
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.24	0.052	0.052	ND	U	0.22	0.05	0.05	ND	U	0.47	0.1	0.1
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.24	0.065	0.065	ND	U	0.22	0.061	0.061	ND	U	0.47	0.13	0.13
	2,4-DICHLOROPHENOL	183	ND	U	0.47	0.073	0.073	ND	U	0.45	0.069	0.069	ND	U	0.95	0.15	0.15
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.35	0.07	0.07	ND	U	0.34	0.067	0.067	ND	U	0.71	0.14	0.14
	2,4-DINITROPHENOL	122	ND	U	0.59	0.083	0.083	ND	U	0.56	0.079	0.079	ND	U	1.2	0.17	0.17
	2,4-DINITROTOLUENE	15.7	ND	U	0.59	0.087	0.087	ND	U	0.56	0.083	0.083	ND	U	1.2	0.17	0.17
	2,6-DINITROTOLUENE	61.1	ND	U	0.59	0.07	0.07	ND	U	0.56	0.067	0.067	ND	U	1.2	0.14	0.14
	2-CHLORONAPHTHALENE	6,260	ND	U	0.3	0.068	0.068	ND	U	0.28	0.064	0.064	ND	U	0.59	0.14	0.14
	2-CHLOROPHENOL	391	ND	U	0.24	0.073	0.073	ND	U	0.22	0.07	0.07	ND	U	0.47	0.15	0.15
	2-METHYLNAPHTHALENE	230	ND	U	0.24	0.07	0.07	ND	U	0.22	0.067	0.067	ND	U	0.47	0.14	0.14
	2-METHYLPHENOL	3,100	ND	U	0.59	0.068	0.068	ND	U	0.56	0.064	0.064	ND	U	1.2	0.14	0.14
	2-NITROANILINE	610	ND	U	0.24	0.057	0.057	ND	U	0.22	0.054	0.054	ND	U	0.47	0.11	0.11
	2-NITROPHENOL	NE	ND	U	0.24	0.065	0.065	ND	U	0.22	0.062	0.062	ND	U	0.47	0.13	0.13
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.3	0.065	0.065	ND	U	0.28	0.062	0.062	ND	U	0.59	0.13	0.13
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.24	0.08	0.08	ND	U	0.22	0.076	0.076	ND	U	0.47	0.16	0.16
	3-NITROANILINE	NE	ND	U	0.24	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	0.47	0.14	0.14
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.59	0.048	0.048	ND	U	0.56	0.046	0.046	ND	U	1.2	0.097	0.097
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.24	0.059	0.059	ND	U	0.22	0.057	0.057	ND	U	0.47	0.12	0.12
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.59	0.062	0.062	ND	U	0.56	0.059	0.059	ND	U	1.2	0.13	0.13
	4-CHLOROANILINE	2.4	ND	U	0.59	0.062	0.062	ND	U	0.56	0.059	0.059	ND	U	1.2	0.13	0.13
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.24	0.067	0.067	ND	U	0.22	0.064	0.064	ND	U	0.47	0.13	0.13
	4-NITROANILINE	24	ND	U	0.47	0.057	0.057	ND	U	0.45	0.054	0.054	ND	U	0.95	0.11	0.11
	4-NITROPHENOL	NE	ND	U	0.3	0.073	0.073	ND	U	0.28	0.069	0.069	ND	U	0.59	0.15	0.15
	ACENAPHTHENE	3440	ND	U	0.24	0.057	0.057	ND	U	0.22	0.054	0.054	ND	U	0.47	0.11	0.11
	ACENAPHTHYLENE	NE	ND	U	0.24	0.058	0.058	ND	U	0.22	0.055	0.055	ND	U	0.47	0.12	0.12
	ANTHRACENE	17,200	ND	U	0.24	0.051	0.051	ND	U	0.22	0.049	0.049	ND	U	0.47	0.1	0.1
	BENZENAMINE	85	ND	U	0.24	0.07	0.07	ND	U	0.22	0.066	0.066	ND	U	0.47	0.14	0.14
	BENZO(A)ANTHRACENE	1.48	0.11	J	0.24	0.064	0.064	0.11	J	0.22	0.061	0.061	0.22	J	0.47	0.13	0.13
	BENZO(A)PYRENE	0.148	ND	U	0.24	0.071	0.071	ND	U	0.22	0.068	0.068	ND	U	0.47	0.14	0.14
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.24	0.081	0.081	ND	U	0.22	0.077	0.077	ND	U	0.47	0.16	0.16
	BENZO(GHI)PERYLENE	NE	ND	U	0.24	0.072	0.072	ND	U	0.22	0.068	0.068	ND	U	0.47	0.14	0.14
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.24	0.09	0.09	ND	U	0.22	0.085	0.085	ND	U	0.47	0.18	0.18
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.24	0.08	0.08	ND	U	0.22	0.076	0.076	ND	U	0.47	0.16	0.16
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.24	0.095	0.095	ND	U	0.22	0.09	0.09	ND	U	0.47	0.19	0.19
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.24	0.044	0.044	ND	U	0.22	0.042	0.042	ND	U	0.47	0.088	0.088
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.59	0.079	0.079	ND	U	0.56	0.076	0.076	ND	U	1.2	0.16	0.16
	BUTYL BENZYL PHTHALATE	260	ND	U	0.24	0.05	0.05	ND	U	0.22	0.048	0.048	ND	U	0.47	0.1	0.1

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-23					FFOR-EXC-24					FFOR-EXC-25				
	SAMPLE NO		FFOR-CF-0025					FFOR-CF-0026					FFOR-CF-0027				
	SAMPLE DATE		2-Jul-14					2-Jul-14					3-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.24	0.053	0.053	ND	U	0.22	0.05	0.05	ND	U	0.47	0.11	0.11
	CHRYSENE	148	ND	U	0.24	0.06	0.06	0.059	J	0.22	0.057	0.057	ND	U	0.47	0.12	0.12
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.24	0.07	0.07	ND	U	0.22	0.067	0.067	ND	U	0.47	0.14	0.14
	DIBENZOFURAN	78	ND	U	0.24	0.079	0.079	ND	U	0.22	0.075	0.075	ND	U	0.47	0.16	0.16
	DIETHYL PHTHALATE	48,900	ND	U	0.24	0.053	0.053	ND	U	0.22	0.05	0.05	ND	U	0.47	0.11	0.11
	DIMETHYL PHTHALATE	611,000	ND	U	0.24	0.066	0.066	ND	U	0.22	0.062	0.062	ND	U	0.47	0.13	0.13
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.59	0.053	0.053	ND	U	0.56	0.051	0.051	ND	U	1.2	0.11	0.11
	DI-N-OCTYL PHTHALATE	610	ND	U	0.47	0.3	0.3	ND	U	0.45	0.28	0.28	ND	U	0.95	0.59	0.59
	FLUORANTHENE	2,290	ND	U	0.24	0.053	0.053	0.058	J	0.22	0.05	0.05	ND	U	0.47	0.11	0.11
	FLUORENE	2,290	ND	U	0.24	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	0.47	0.14	0.14
	HEXACHLOROBENZENE	3.04	ND	U	0.24	0.064	0.064	ND	U	0.22	0.061	0.061	ND	U	0.47	0.13	0.13
	HEXACHLOROBUTADIENE	61.1	ND	U	0.24	0.057	0.057	ND	U	0.22	0.054	0.054	ND	U	0.47	0.11	0.11
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.24	0.076	0.076	ND	U	0.22	0.073	0.073	ND	U	0.47	0.15	0.15
	HEXACHLOROETHANE	42.8	ND	U	0.24	0.083	0.083	ND	U	0.22	0.079	0.079	ND	U	0.47	0.17	0.17
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.24	0.078	0.078	ND	U	0.22	0.074	0.074	ND	U	0.47	0.16	0.16
	ISOPHORONE	5,120	ND	U	0.59	0.077	0.077	ND	U	0.56	0.074	0.074	ND	U	1.2	0.16	0.16
	NAPHTHALENE	43	ND	U	0.24	0.056	0.056	ND	U	0.22	0.053	0.053	ND	U	0.47	0.11	0.11
	NITROBENZENE	53.5	ND	U	0.59	0.066	0.066	ND	U	0.56	0.063	0.063	ND	U	1.2	0.13	0.13
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.24	0.089	0.089	ND	U	0.22	0.085	0.085	ND	U	0.47	0.18	0.18
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.24	0.078	0.078	ND	U	0.22	0.075	0.075	ND	U	0.47	0.16	0.16
	N-NITROSODIPHENYLAMINE	993	ND	U	0.24	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	0.47	0.14	0.14
	PENTACHLOROPHENOL	8.94	ND	U	0.47	0.096	0.096	ND	U	0.45	0.091	0.091	ND	U	0.95	0.19	0.19
	PHENANTHRENE	1,830	ND	U	0.24	0.043	0.043	ND	U	0.22	0.041	0.041	ND	U	0.47	0.086	0.086
	PHENOL	18,300	ND	U	0.24	0.069	0.069	ND	U	0.22	0.066	0.066	ND	U	0.47	0.14	0.14
	PYRENE	1,720	ND	U	0.24	0.064	0.064	0.063	J	0.22	0.061	0.061	ND	U	0.47	0.13	0.13
	PYRIDINE	78	ND	U	0.59	0.065	0.065	ND	U	0.56	0.062	0.062	ND	U	1.2	0.13	0.13
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-23					FFOR-EXC-24					FFOR-EXC-25				
	SAMPLE NO	FFOR-CF-0025					FFOR-CF-0026					FFOR-CF-0027				
	SAMPLE DATE	2-Jul-14					2-Jul-14					3-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1-DICHLOROETHANE	64.5	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1-DICHLOROETHENE	449	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,1-DICHLOROPROPENE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2-DIBROMOETHANE	0.588	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2-DICHLOROETHANE	7.89	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,3-DICHLOROBENZENE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	2,2-DICHLOROPROPANE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	2-BUTANONE	37,100	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	2-CHLOROTOLUENE	1,560	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	2-HEXANONE	210	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	4-CHLOROTOLUENE	1,600	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	ACETONE	66,600	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	BENZENE	15.4	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	BROMOBENZENE	300	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	BROMOCHLOROMETHANE	160	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	BROMODICHLOROMETHANE	5.41	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	BROMOFORM	616	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	BROMOMETHANE	16.5	ND	U	0.0041	0.000819	0.000819	ND	U	0.00349	0.000697	0.000697	ND	U	0.00359	0.000718	0.000718
	CARBON DISULFIDE	1,530	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	CARBON TETRACHLORIDE	10.8	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CHLOROBENZENE	376	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CHLOROETHANE	29,800	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CHLOROFORM	5.86	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CHLOROMETHANE	275	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	DIBROMOMETHANE	51.6	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	ETHYLBENZENE	68.4	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-23					FFOR-EXC-24					FFOR-EXC-25				
	SAMPLE NO	FFOR-CF-0025					FFOR-CF-0026					FFOR-CF-0027				
	SAMPLE DATE	2-Jul-14					2-Jul-14					3-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.00164	0.000819	0.000819	ND	UJ	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	METHYLENE CHLORIDE	409	ND	U	0.0041	0.00164	0.00164	ND	U	0.00349	0.00139	0.00139	ND	U	0.00359	0.00144	0.00144
	NAPHTHALENE	43	ND	U	0.00164	0.00164	0.00164	ND	U	0.00139	0.00139	0.00139	ND	U	0.00144	0.00144	0.00144
	N-BUTYLBENZENE	3,900	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	N-PROPYLBENZENE	3,400	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	SEC-BUTYLBENZENE	7,800	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	STYRENE	7,280	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TERT-BUTYLBENZENE	7,800	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TETRACHLOROETHENE	7.02	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TOLUENE	5,270	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TRICHLOROETHENE	8.77	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	VINYL ACETATE	2,560	ND	U	0.00819	0.00819	0.00819	ND	U	0.00697	0.00697	0.00697	ND	U	0.00718	0.00718	0.00718
	VINYL CHLORIDE	0.728	ND	U	0.00164	0.000819	0.000819	ND	U	0.00139	0.000697	0.000697	ND	U	0.00144	0.000718	0.000718
	XYLENES	814	ND	U	0.00164	0.00164	0.00164	ND	U	0.00139	0.00139	0.00139	ND	U	0.00144	0.00144	0.00144

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-26					FFOR-EXC-27					FFOR-EXC-28				
	SAMPLE NO	FFOR-CF-0028					FFOR-CF-0029					FFOR-CF-0030				
	SAMPLE DATE	18-Jul-14					18-Jul-14					18-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2		0.26	0.19	0.19	3.6		0.27	0.2	0.2	2.3		0.27	0.2	0.2
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	UJ	11	5.8	5.8	ND	UJ	11	6	6	ND	UJ	11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.7	0.48	0.48	ND	U	4.1	0.54	0.54	ND	U	4	0.52	0.52
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	53	53	53	ND	U	54	54	54	ND	U	53	53	53
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.062	0.062	ND	U	0.22	0.062	0.062	ND	U	0.21	0.062	0.062
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.042	0.042	ND	U	0.22	0.042	0.042	ND	U	0.21	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.061	0.061	ND	U	0.22	0.061	0.061	ND	U	0.21	0.06	0.06
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.067	0.067	ND	U	0.22	0.067	0.067	ND	U	0.21	0.066	0.066
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.048	0.048	ND	U	0.22	0.048	0.048	ND	U	0.21	0.047	0.047
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.059	0.059	ND	U	0.22	0.059	0.059	ND	U	0.21	0.059	0.059
	2,4-DICHLOROPHENOL	183	ND	U	0.43	0.066	0.066	ND	U	0.43	0.066	0.066	ND	U	0.43	0.066	0.066
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.32	0.064	0.064	ND	U	0.32	0.064	0.064	ND	U	0.32	0.064	0.064
	2,4-DINITROPHENOL	122	ND	U	0.54	0.076	0.076	ND	U	0.54	0.076	0.076	ND	U	0.53	0.075	0.075
	2,4-DINITROTOLUENE	15.7	ND	U	0.54	0.08	0.08	ND	U	0.54	0.079	0.079	ND	U	0.53	0.079	0.079
	2,6-DINITROTOLUENE	61.1	ND	U	0.54	0.064	0.064	ND	U	0.54	0.064	0.064	ND	U	0.53	0.063	0.063
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.062	0.062	ND	U	0.27	0.062	0.062	ND	U	0.27	0.061	0.061
	2-CHLOROPHENOL	391	ND	U	0.22	0.067	0.067	ND	U	0.22	0.067	0.067	ND	U	0.21	0.067	0.067
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.064	0.064	ND	U	0.22	0.064	0.064	ND	U	0.21	0.064	0.064
	2-METHYLPHENOL	3,100	ND	U	0.54	0.062	0.062	ND	U	0.54	0.062	0.062	ND	U	0.53	0.061	0.061
	2-NITROANILINE	610	ND	U	0.22	0.052	0.052	ND	U	0.22	0.052	0.052	ND	U	0.21	0.052	0.052
	2-NITROPHENOL	NE	ND	U	0.22	0.059	0.059	ND	U	0.22	0.059	0.059	ND	U	0.21	0.059	0.059
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.06	0.06	ND	U	0.27	0.06	0.06	ND	U	0.27	0.059	0.059
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.073	0.073	ND	U	0.22	0.073	0.073	ND	U	0.21	0.072	0.072
	3-NITROANILINE	NE	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063	ND	U	0.21	0.062	0.062
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.54	0.044	0.044	ND	U	0.54	0.044	0.044	ND	U	0.53	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.054	0.054	ND	U	0.22	0.054	0.054	ND	U	0.21	0.054	0.054
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.54	0.057	0.057	ND	U	0.54	0.057	0.057	ND	U	0.53	0.057	0.057
	4-CHLOROANILINE	2.4	ND	U	0.54	0.057	0.057	ND	U	0.54	0.057	0.057	ND	U	0.53	0.057	0.057
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.061	0.061	ND	U	0.22	0.061	0.061	ND	U	0.21	0.061	0.061
	4-NITROANILINE	24	ND	U	0.43	0.052	0.052	ND	U	0.43	0.052	0.052	ND	U	0.43	0.051	0.051
	4-NITROPHENOL	NE	ND	U	0.27	0.066	0.066	ND	U	0.27	0.066	0.066	ND	U	0.27	0.066	0.066
	ACENAPHTHENE	3440	ND	U	0.22	0.052	0.052	ND	U	0.22	0.052	0.052	ND	U	0.21	0.051	0.051
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	U	0.22	0.053	0.053	ND	U	0.21	0.052	0.052
	ANTHRACENE	17,200	ND	U	0.22	0.047	0.047	ND	U	0.22	0.047	0.047	ND	U	0.21	0.046	0.046
	BENZENAMINE	85	ND	U	0.22	0.064	0.064	ND	U	0.22	0.064	0.064	ND	U	0.21	0.063	0.063
	BENZO(A)ANTHRACENE	1.48	ND	U	0.22	0.059	0.059	0.1	J	0.22	0.058	0.058	ND	U	0.21	0.058	0.058
	BENZO(A)PYRENE	0.148	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065	ND	U	0.21	0.064	0.064
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.22	0.074	0.074	ND	U	0.22	0.074	0.074	ND	U	0.21	0.073	0.073
	BENZO(GHI)PERYLENE	NE	ND	U	0.22	0.065	0.065	ND	U	0.22	0.065	0.065	ND	U	0.21	0.065	0.065
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.082	0.082	ND	U	0.22	0.082	0.082	ND	U	0.21	0.081	0.081
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.073	0.073	ND	U	0.22	0.073	0.073	ND	U	0.21	0.072	0.072
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.087	0.087	ND	U	0.22	0.086	0.086	ND	U	0.21	0.086	0.086
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.04	0.04	ND	U	0.22	0.04	0.04	ND	U	0.21	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.54	0.073	0.073	ND	U	0.54	0.072	0.072	ND	U	0.53	0.072	0.072
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.046	0.046	ND	U	0.22	0.046	0.046	ND	U	0.21	0.045	0.045

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-26					FFOR-EXC-27					FFOR-EXC-28				
	SAMPLE NO		FFOR-CF-0028					FFOR-CF-0029					FFOR-CF-0030				
	SAMPLE DATE		18-Jul-14					18-Jul-14					18-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.048	0.048	ND	U	0.22	0.048	0.048	ND	U	0.21	0.048	0.048
	CHRYSENE	148	ND	U	0.22	0.055	0.055	0.056	J	0.22	0.055	0.055	ND	U	0.21	0.054	0.054
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.064	0.064	ND	U	0.22	0.064	0.064	ND	U	0.21	0.064	0.064
	DIBENZOFURAN	78	ND	U	0.22	0.072	0.072	ND	U	0.22	0.072	0.072	ND	U	0.21	0.072	0.072
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.048	0.048	ND	U	0.22	0.048	0.048	ND	U	0.21	0.048	0.048
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.06	0.06	ND	U	0.22	0.06	0.06	ND	U	0.21	0.059	0.059
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.54	0.049	0.049	ND	U	0.54	0.048	0.048	ND	U	0.53	0.048	0.048
	DI-N-OCTYL PHTHALATE	610	ND	U	0.43	0.27	0.27	ND	U	0.43	0.27	0.27	ND	U	0.43	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.22	0.048	0.048	ND	U	0.22	0.048	0.048	ND	U	0.21	0.048	0.048
	FLUORENE	2,290	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063	ND	U	0.21	0.062	0.062
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.059	0.059	ND	U	0.22	0.059	0.059	ND	U	0.21	0.058	0.058
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.052	0.052	ND	U	0.22	0.052	0.052	ND	U	0.21	0.051	0.051
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.07	0.07	ND	U	0.22	0.07	0.07	ND	U	0.21	0.069	0.069
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.076	0.076	ND	U	0.22	0.076	0.076	ND	U	0.21	0.075	0.075
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.22	0.072	0.072	ND	U	0.22	0.071	0.071	ND	U	0.21	0.071	0.071
	ISOPHORONE	5,120	ND	U	0.54	0.071	0.071	ND	U	0.54	0.071	0.071	ND	U	0.53	0.07	0.07
	NAPHTHALENE	43	ND	U	0.22	0.051	0.051	ND	U	0.22	0.051	0.051	ND	U	0.21	0.051	0.051
	NITROBENZENE	53.5	ND	U	0.54	0.06	0.06	ND	U	0.54	0.06	0.06	ND	U	0.53	0.06	0.06
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.082	0.082	ND	U	0.22	0.081	0.081	ND	U	0.21	0.081	0.081
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.072	0.072	ND	U	0.22	0.071	0.071	ND	U	0.21	0.071	0.071
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063	ND	U	0.21	0.062	0.062
	PENTACHLOROPHENOL	8.94	ND	U	0.43	0.088	0.088	ND	U	0.43	0.087	0.087	ND	U	0.43	0.087	0.087
	PHENANTHRENE	1,830	ND	U	0.22	0.039	0.039	ND	U	0.22	0.039	0.039	ND	U	0.21	0.039	0.039
	PHENOL	18,300	ND	U	0.22	0.063	0.063	ND	U	0.22	0.063	0.063	ND	U	0.21	0.063	0.063
	PYRENE	1,720	ND	U	0.22	0.059	0.059	ND	U	0.22	0.058	0.058	ND	U	0.21	0.058	0.058
	PYRIDINE	78	ND	U	0.54	0.06	0.06	ND	U	0.54	0.06	0.06	ND	U	0.53	0.059	0.059
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-26					FFOR-EXC-27					FFOR-EXC-28				
	SAMPLE NO	FFOR-CF-0028					FFOR-CF-0029					FFOR-CF-0030				
	SAMPLE DATE	18-Jul-14					18-Jul-14					18-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1-DICHLOROETHANE	64.5	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1-DICHLOROETHENE	449	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,1-DICHLOROPROPENE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2-DIBROMOETHANE	0.588	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2-DICHLOROETHANE	7.89	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,3-DICHLOROBENZENE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	2,2-DICHLOROPROPANE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	2-BUTANONE	37,100	ND	U	0.00765	0.00765	0.00765	ND	U	0.00693	0.00693	0.00693	ND	U	0.00715	0.00715	0.00715
	2-CHLOROTOLUENE	1,560	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	2-HEXANONE	210	ND	U	0.00765	0.00765	0.00765	ND	U	0.00693	0.00693	0.00693	ND	U	0.00715	0.00715	0.00715
	4-CHLOROTOLUENE	1,600	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00765	0.00765	0.00765	ND	U	0.00693	0.00693	0.00693	ND	U	0.00715	0.00715	0.00715
	ACETONE	66,600	ND	U	0.00765	0.00765	0.00765	0.00906		0.00693	0.00693	0.00693	0.0103		0.00715	0.00715	0.00715
	BENZENE	15.4	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	BROMOBENZENE	300	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	BROMOCHLOROMETHANE	160	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	BROMODICHLOROMETHANE	5.41	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	BROMOFORM	616	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	BROMOMETHANE	16.5	ND	UJ	0.00383	0.000765	0.000765	ND	UJ	0.00347	0.000693	0.000693	ND	UJ	0.00357	0.000715	0.000715
	CARBON DISULFIDE	1,530	ND	U	0.00765	0.00765	0.00765	ND	U	0.00693	0.00693	0.00693	ND	U	0.00715	0.00715	0.00715
	CARBON TETRACHLORIDE	10.8	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CHLOROBENZENE	376	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CHLOROETHANE	29,800	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CHLOROFORM	5.86	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CHLOROMETHANE	275	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	DIBROMOMETHANE	51.6	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	ETHYLBENZENE	68.4	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-26					FFOR-EXC-27					FFOR-EXC-28				
	SAMPLE NO	FFOR-CF-0028					FFOR-CF-0029					FFOR-CF-0030				
	SAMPLE DATE	18-Jul-14					18-Jul-14					18-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	METHYLENE CHLORIDE	409	ND	U	0.00383	0.00153	0.00153	ND	U	0.00347	0.00139	0.00139	ND	U	0.00357	0.00143	0.00143
	NAPHTHALENE	43	ND	U	0.00153	0.00153	0.00153	ND	U	0.00139	0.00139	0.00139	ND	U	0.00143	0.00143	0.00143
	N-BUTYLBENZENE	3,900	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	N-PROPYLBENZENE	3,400	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	SEC-BUTYLBENZENE	7,800	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	STYRENE	7,280	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TERT-BUTYLBENZENE	7,800	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TETRACHLOROETHENE	7.02	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TOLUENE	5,270	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TRICHLOROETHENE	8.77	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	VINYL ACETATE	2,560	ND	U	0.00765	0.00765	0.00765	ND	U	0.00693	0.00693	0.00693	ND	U	0.00715	0.00715	0.00715
	VINYL CHLORIDE	0.728	ND	U	0.00153	0.000765	0.000765	ND	U	0.00139	0.000693	0.000693	ND	U	0.00143	0.000715	0.000715
	XYLENES	814	ND	U	0.00153	0.00153	0.00153	ND	U	0.00139	0.00139	0.00139	ND	U	0.00143	0.00143	0.00143

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-29					FFOR-EXC-30					FFOR-EXC-30				
	SAMPLE NO	FFOR-CF-0031					FFOR-CF-0032					FFOR-CF-0033				
	SAMPLE DATE	18-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE	REG					REG					FD				
	SAMPLE DEPTH	15 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	5.2		0.57	0.42	0.42	5.8		0.28	0.21	0.21	3.9		0.29	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	UJ	11	6.3	6.3	ND	U	12	6.5	6.5	ND	U	12	6.5	6.5
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4.4	0.58	0.58	ND	U	3.6	0.46	0.46	ND	U	3.8	0.49	0.49
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	57	57	57	ND	U	58	58	58	ND	U	59	59	59
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.23	0.065	0.065	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	1,2-DICHLOROBENZENE	2,310	ND	U	0.23	0.044	0.044	ND	U	0.46	0.089	0.089	ND	U	0.46	0.09	0.09
	1,3-DICHLOROBENZENE	NE	ND	U	0.23	0.064	0.064	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	1,4-DICHLOROBENZENE	31.7	ND	U	0.23	0.07	0.07	ND	U	0.46	0.14	0.14	ND	U	0.46	0.14	0.14
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.23	0.05	0.05	ND	U	0.46	0.1	0.1	ND	U	0.46	0.1	0.1
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.23	0.062	0.062	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	2,4-DICHLOROPHENOL	183	ND	U	0.45	0.069	0.069	ND	U	0.92	0.14	0.14	ND	U	0.93	0.14	0.14
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.34	0.067	0.067	ND	U	0.69	0.14	0.14	ND	U	0.69	0.14	0.14
	2,4-DINITROPHENOL	122	ND	U	0.56	0.079	0.079	ND	U	1.1	0.16	0.16	ND	U	1.2	0.16	0.16
	2,4-DINITROTOLUENE	15.7	ND	U	0.56	0.083	0.083	ND	U	1.1	0.17	0.17	ND	U	1.2	0.17	0.17
	2,6-DINITROTOLUENE	61.1	ND	U	0.56	0.067	0.067	ND	U	1.1	0.14	0.14	ND	U	1.2	0.14	0.14
	2-CHLORONAPHTHALENE	6,260	ND	U	0.28	0.064	0.064	ND	U	0.57	0.13	0.13	ND	U	0.58	0.13	0.13
	2-CHLOROPHENOL	391	ND	U	0.23	0.07	0.07	ND	U	0.46	0.14	0.14	ND	U	0.46	0.14	0.14
	2-METHYLNAPHTHALENE	230	ND	U	0.23	0.067	0.067	ND	U	0.46	0.14	0.14	ND	U	0.46	0.14	0.14
	2-METHYLPHENOL	3,100	ND	U	0.56	0.065	0.065	ND	U	1.1	0.13	0.13	ND	U	1.2	0.13	0.13
	2-NITROANILINE	610	ND	U	0.23	0.054	0.054	ND	U	0.46	0.11	0.11	ND	U	0.46	0.11	0.11
	2-NITROPHENOL	NE	ND	U	0.23	0.062	0.062	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.28	0.062	0.062	ND	U	0.57	0.13	0.13	ND	U	0.58	0.13	0.13
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.23	0.076	0.076	ND	U	0.46	0.15	0.15	ND	U	0.46	0.16	0.16
	3-NITROANILINE	NE	ND	U	0.23	0.066	0.066	ND	U	0.46	0.13	0.13	ND	U	0.46	0.14	0.14
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.56	0.046	0.046	ND	U	1.1	0.094	0.094	ND	U	1.2	0.095	0.095
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.23	0.057	0.057	ND	U	0.46	0.12	0.12	ND	U	0.46	0.12	0.12
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.56	0.06	0.06	ND	U	1.1	0.12	0.12	ND	U	1.2	0.12	0.12
	4-CHLOROANILINE	2.4	ND	U	0.56	0.06	0.06	ND	U	1.1	0.12	0.12	ND	U	1.2	0.12	0.12
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.23	0.064	0.064	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	4-NITROANILINE	24	ND	U	0.45	0.054	0.054	ND	U	0.92	0.11	0.11	ND	U	0.93	0.11	0.11
	4-NITROPHENOL	NE	ND	U	0.28	0.069	0.069	ND	U	0.57	0.14	0.14	ND	U	0.58	0.14	0.14
	ACENAPHTHENE	3440	ND	U	0.23	0.054	0.054	ND	U	0.46	0.11	0.11	ND	U	0.46	0.11	0.11
	ACENAPHTHYLENE	NE	ND	U	0.23	0.055	0.055	ND	U	0.46	0.11	0.11	ND	U	0.46	0.11	0.11
	ANTHRACENE	17,200	ND	U	0.23	0.049	0.049	ND	U	0.46	0.099	0.099	ND	U	0.46	0.1	0.1
	BENZENAMINE	85	ND	U	0.23	0.067	0.067	ND	U	0.46	0.14	0.14	ND	U	0.46	0.14	0.14
	BENZO(A)ANTHRACENE	1.48	ND	U	0.23	0.061	0.061	ND	U	0.46	0.12	0.12	0.28	J	0.46	0.13	0.13
	BENZO(A)PYRENE	0.148	ND	U	0.23	0.068	0.068	ND	U	0.46	0.14	0.14	**0.29**	J	0.46	0.14	0.14
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.23	0.077	0.077	ND	U	0.46	0.16	0.16	0.47		0.46	0.16	0.16
	BENZO(GHI)PERYLENE	NE	ND	U	0.23	0.068	0.068	ND	U	0.46	0.14	0.14	0.28	J	0.46	0.14	0.14
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.23	0.086	0.086	ND	U	0.46	0.17	0.17	0.2	J	0.46	0.18	0.18
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.23	0.076	0.076	ND	U	0.46	0.15	0.15	ND	U	0.46	0.16	0.16
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.23	0.09	0.09	ND	U	0.46	0.18	0.18	ND	U	0.46	0.19	0.19
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.23	0.042	0.042	ND	U	0.46	0.085	0.085	ND	U	0.46	0.086	0.086
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.56	0.076	0.076	ND	U	1.1	0.15	0.15	ND	U	1.2	0.16	0.16
	BUTYL BENZYL PHTHALATE	260	ND	U	0.23	0.048	0.048	ND	U	0.46	0.097	0.097	ND	U	0.46	0.099	0.099

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-29					FFOR-EXC-30					FFOR-EXC-30				
	SAMPLE NO		FFOR-CF-0031					FFOR-CF-0032					FFOR-CF-0033				
	SAMPLE DATE		18-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE		REG					REG					FD				
	SAMPLE DEPTH		15 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.23	0.051	0.051	ND	U	0.46	0.1	0.1	ND	U	0.46	0.1	0.1
	CHRYSENE	148	ND	U	0.23	0.057	0.057	ND	U	0.46	0.12	0.12	0.33	J	0.46	0.12	0.12
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.23	0.067	0.067	ND	U	0.46	0.14	0.14	ND	U	0.46	0.14	0.14
	DIBENZOFURAN	78	ND	U	0.23	0.076	0.076	ND	U	0.46	0.15	0.15	ND	U	0.46	0.16	0.16
	DIETHYL PHTHALATE	48,900	ND	U	0.23	0.051	0.051	ND	U	0.46	0.1	0.1	ND	U	0.46	0.1	0.1
	DIMETHYL PHTHALATE	611,000	ND	U	0.23	0.063	0.063	ND	U	0.46	0.13	0.13	ND	U	0.46	0.13	0.13
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.56	0.051	0.051	ND	U	1.1	0.1	0.1	ND	U	1.2	0.1	0.1
	DI-N-OCTYL PHTHALATE	610	ND	U	0.45	0.28	0.28	ND	U	0.92	0.57	0.57	ND	U	0.93	0.58	0.58
	FLUORANTHENE	2,290	ND	U	0.23	0.051	0.051	ND	U	0.46	0.1	0.1	0.28	J	0.46	0.1	0.1
	FLUORENE	2,290	ND	U	0.23	0.066	0.066	ND	U	0.46	0.13	0.13	ND	U	0.46	0.14	0.14
	HEXACHLOROBENZENE	3.04	ND	U	0.23	0.061	0.061	ND	U	0.46	0.12	0.12	ND	U	0.46	0.13	0.13
	HEXACHLOROBUTADIENE	61.1	ND	U	0.23	0.054	0.054	ND	U	0.46	0.11	0.11	ND	U	0.46	0.11	0.11
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.23	0.073	0.073	ND	U	0.46	0.15	0.15	ND	U	0.46	0.15	0.15
	HEXACHLOROETHANE	42.8	ND	U	0.23	0.079	0.079	ND	U	0.46	0.16	0.16	ND	U	0.46	0.16	0.16
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.23	0.075	0.075	ND	U	0.46	0.15	0.15	0.26	J	0.46	0.15	0.15
	ISOPHORONE	5,120	ND	U	0.56	0.074	0.074	ND	U	1.1	0.15	0.15	ND	U	1.2	0.15	0.15
	NAPHTHALENE	43	ND	U	0.23	0.054	0.054	ND	U	0.46	0.11	0.11	ND	U	0.46	0.11	0.11
	NITROBENZENE	53.5	ND	U	0.56	0.063	0.063	ND	U	1.1	0.13	0.13	ND	U	1.2	0.13	0.13
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.23	0.085	0.085	ND	U	0.46	0.17	0.17	ND	U	0.46	0.17	0.17
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.23	0.075	0.075	ND	U	0.46	0.15	0.15	ND	U	0.46	0.15	0.15
	N-NITROSODIPHENYLAMINE	993	ND	U	0.23	0.066	0.066	ND	U	0.46	0.13	0.13	ND	U	0.46	0.14	0.14
	PENTACHLOROPHENOL	8.94	ND	U	0.45	0.091	0.091	ND	U	0.92	0.19	0.19	ND	U	0.93	0.19	0.19
	PHENANTHRENE	1,830	ND	U	0.23	0.041	0.041	ND	U	0.46	0.083	0.083	ND	U	0.46	0.084	0.084
	PHENOL	18,300	ND	U	0.23	0.066	0.066	ND	U	0.46	0.13	0.13	ND	U	0.46	0.14	0.14
	PYRENE	1,720	ND	U	0.23	0.061	0.061	ND	U	0.46	0.12	0.12	0.31	J	0.46	0.13	0.13
	PYRIDINE	78	ND	U	0.56	0.062	0.062	ND	U	1.1	0.13	0.13	ND	U	1.2	0.13	0.13
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-29					FFOR-EXC-30					FFOR-EXC-30				
	SAMPLE NO		FFOR-CF-0031					FFOR-CF-0032					FFOR-CF-0033				
	SAMPLE DATE		18-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE		REG					REG					FD				
	SAMPLE DEPTH		15 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1-DICHLOROETHANE	64.5	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1-DICHLOROETHENE	449	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,1-DICHLOROPROPENE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2,4-TRIMETHYLBENZENE	62	0.00102	J	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2-DIBROMOETHANE	0.588	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2-DICHLOROETHANE	7.89	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,3-DICHLOROBENZENE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	2,2-DICHLOROPROPANE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	2-BUTANONE	37,100	ND	U	0.00813	0.00813	0.00813	ND	UJ	0.00728	0.00728	0.00728	ND	UJ	0.0075	0.0075	0.0075
	2-CHLOROTOLUENE	1,560	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	2-HEXANONE	210	ND	U	0.00813	0.00813	0.00813	ND	U	0.00728	0.00728	0.00728	ND	U	0.0075	0.0075	0.0075
	4-CHLOROTOLUENE	1,600	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00813	0.00813	0.00813	ND	U	0.00728	0.00728	0.00728	ND	U	0.0075	0.0075	0.0075
	ACETONE	66,600	0.0124		0.00813	0.00813	0.00813	0.0147		0.00728	0.00728	0.00728	0.0136		0.0075	0.0075	0.0075
	BENZENE	15.4	0.00248		0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	BROMOBENZENE	300	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	BROMOCHLOROMETHANE	160	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	BROMODICHLOROMETHANE	5.41	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	BROMOFORM	616	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	BROMOMETHANE	16.5	ND	UJ	0.00407	0.000813	0.000813	0.0008	J-	0.00364	0.000728	0.000728	ND	UJ	0.00375	0.00075	0.00075
	CARBON DISULFIDE	1,530	ND	U	0.00813	0.00813	0.00813	ND	U	0.00728	0.00728	0.00728	ND	U	0.0075	0.0075	0.0075
	CARBON TETRACHLORIDE	10.8	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CHLOROBENZENE	376	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CHLOROETHANE	29,800	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CHLOROFORM	5.86	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CHLOROMETHANE	275	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	DIBROMOMETHANE	51.6	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	ETHYLBENZENE	68.4	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-29					FFOR-EXC-30					FFOR-EXC-30				
	SAMPLE NO	FFOR-CF-0031					FFOR-CF-0032					FFOR-CF-0033				
	SAMPLE DATE	18-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE	REG					REG					FD				
	SAMPLE DEPTH	15 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00163	0.000813	0.000813	ND	UJ	0.00146	0.000728	0.000728	ND	UJ	0.0015	0.00075	0.00075
	METHYLENE CHLORIDE	409	ND	U	0.00407	0.00163	0.00163	ND	U	0.00364	0.00146	0.00146	ND	U	0.00375	0.0015	0.0015
	NAPHTHALENE	43	ND	U	0.00163	0.00163	0.00163	ND	U	0.00146	0.00146	0.00146	ND	U	0.0015	0.0015	0.0015
	N-BUTYLBENZENE	3,900	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	N-PROPYLBENZENE	3,400	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	SEC-BUTYLBENZENE	7,800	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	STYRENE	7,280	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TERT-BUTYLBENZENE	7,800	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TETRACHLOROETHENE	7.02	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TOLUENE	5,270	0.00323		0.00163	0.000813	0.000813	0.00102	J	0.00146	0.000728	0.000728	0.00104	J	0.0015	0.00075	0.00075
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TRICHLOROETHENE	8.77	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	VINYL ACETATE	2,560	ND	U	0.00813	0.00813	0.00813	ND	UJ	0.00728	0.00728	0.00728	ND	UJ	0.0075	0.0075	0.0075
	VINYL CHLORIDE	0.728	ND	U	0.00163	0.000813	0.000813	ND	U	0.00146	0.000728	0.000728	ND	U	0.0015	0.00075	0.00075
	XYLENES	814	0.00244		0.00163	0.00163	0.00163	ND	U	0.00146	0.00146	0.00146	ND	U	0.0015	0.0015	0.0015

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-31					FFOR-EXC-32					FFOR-EXC-33				
	SAMPLE NO		FFOR-CF-0034					FFOR-CF-0035					FFOR-CF-0036				
	SAMPLE DATE		25-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	3.3		0.3	0.22	0.22	4.1		0.6	0.44	0.44	2.7		0.29	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	12	6.4	6.4	ND	U	12	6.5	6.5	ND	U	11	6.3	6.3
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.3	0.42	0.42	ND	U	3.2	0.41	0.41	ND	U	3	0.39	0.39
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	58	58	58	ND	U	59	59	59	ND	U	57	57	57
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.46	0.13	0.13	ND	U	0.24	0.068	0.068	ND	U	0.23	0.066	0.066
	1,2-DICHLOROBENZENE	2,310	ND	U	0.46	0.089	0.089	ND	U	0.24	0.046	0.046	ND	U	0.23	0.045	0.045
	1,3-DICHLOROBENZENE	NE	ND	U	0.46	0.13	0.13	ND	U	0.24	0.067	0.067	ND	U	0.23	0.065	0.065
	1,4-DICHLOROBENZENE	31.7	ND	U	0.46	0.14	0.14	ND	U	0.24	0.073	0.073	ND	U	0.23	0.071	0.071
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.46	0.1	0.1	ND	U	0.24	0.052	0.052	ND	U	0.23	0.051	0.051
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.46	0.13	0.13	ND	U	0.24	0.064	0.064	ND	U	0.23	0.063	0.063
	2,4-DICHLOROPHENOL	183	ND	U	0.92	0.14	0.14	ND	U	0.47	0.072	0.072	ND	U	0.46	0.071	0.071
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.69	0.14	0.14	ND	U	0.35	0.07	0.07	ND	U	0.35	0.069	0.069
	2,4-DINITROPHENOL	122	ND	U	1.1	0.16	0.16	ND	U	0.59	0.083	0.083	ND	U	0.58	0.081	0.081
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.17	0.17	ND	U	0.59	0.087	0.087	ND	U	0.58	0.085	0.085
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.14	0.14	ND	U	0.59	0.07	0.07	ND	U	0.58	0.068	0.068
	2-CHLORONAPHTHALENE	6,260	ND	U	0.57	0.13	0.13	ND	U	0.29	0.067	0.067	ND	U	0.29	0.066	0.066
	2-CHLOROPHENOL	391	ND	U	0.46	0.14	0.14	ND	U	0.24	0.073	0.073	ND	U	0.23	0.072	0.072
	2-METHYLNAPHTHALENE	230	ND	U	0.46	0.14	0.14	ND	U	0.24	0.07	0.07	ND	U	0.23	0.068	0.068
	2-METHYLPHENOL	3,100	ND	U	1.1	0.13	0.13	ND	U	0.59	0.067	0.067	ND	U	0.58	0.066	0.066
	2-NITROANILINE	610	ND	U	0.46	0.11	0.11	ND	U	0.24	0.057	0.057	ND	U	0.23	0.055	0.055
	2-NITROPHENOL	NE	ND	U	0.46	0.13	0.13	ND	U	0.24	0.065	0.065	ND	U	0.23	0.063	0.063
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.57	0.13	0.13	ND	U	0.29	0.065	0.065	ND	U	0.29	0.064	0.064
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.46	0.15	0.15	ND	U	0.24	0.079	0.079	ND	U	0.23	0.078	0.078
	3-NITROANILINE	NE	ND	U	0.46	0.13	0.13	ND	U	0.24	0.069	0.069	ND	U	0.23	0.067	0.067
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.094	0.094	ND	U	0.59	0.048	0.048	ND	U	0.58	0.047	0.047
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.46	0.12	0.12	ND	U	0.24	0.059	0.059	ND	U	0.23	0.058	0.058
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.12	0.12	ND	U	0.59	0.062	0.062	ND	U	0.58	0.061	0.061
	4-CHLOROANILINE	2.4	ND	U	1.1	0.12	0.12	ND	U	0.59	0.062	0.062	ND	U	0.58	0.061	0.061
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.46	0.13	0.13	ND	U	0.24	0.067	0.067	ND	U	0.23	0.065	0.065
	4-NITROANILINE	24	ND	U	0.92	0.11	0.11	ND	U	0.47	0.057	0.057	ND	U	0.46	0.055	0.055
	4-NITROPHENOL	NE	ND	U	0.57	0.14	0.14	ND	U	0.29	0.072	0.072	ND	U	0.29	0.071	0.071
	ACENAPHTHENE	3440	ND	U	0.46	0.11	0.11	ND	U	0.24	0.056	0.056	ND	U	0.23	0.055	0.055
	ACENAPHTHYLENE	NE	ND	U	0.46	0.11	0.11	ND	U	0.24	0.057	0.057	ND	U	0.23	0.056	0.056
	ANTHRACENE	17,200	ND	U	0.46	0.099	0.099	ND	U	0.24	0.051	0.051	ND	U	0.23	0.05	0.05
	BENZENAMINE	85	ND	U	0.46	0.14	0.14	ND	U	0.24	0.07	0.07	ND	U	0.23	0.068	0.068
	BENZO(A)ANTHRACENE	1.48	ND	U	0.46	0.12	0.12	ND	U	0.24	0.064	0.064	ND	U	0.23	0.062	0.062
	BENZO(A)PYRENE	0.148	ND	U	0.46	0.14	0.14	ND	U	0.24	0.071	0.071	ND	U	0.23	0.069	0.069
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.46	0.16	0.16	ND	U	0.24	0.081	0.081	ND	U	0.23	0.079	0.079
	BENZO(GHI)PERYLENE	NE	ND	U	0.46	0.14	0.14	ND	U	0.24	0.071	0.071	ND	U	0.23	0.07	0.07
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.46	0.17	0.17	ND	U	0.24	0.089	0.089	ND	U	0.23	0.087	0.087
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.46	0.15	0.15	ND	U	0.24	0.079	0.079	ND	U	0.23	0.078	0.078
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.46	0.18	0.18	ND	U	0.24	0.094	0.094	ND	U	0.23	0.092	0.092
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.46	0.085	0.085	ND	U	0.24	0.044	0.044	ND	U	0.23	0.043	0.043
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1.1	0.15	0.15	ND	U	0.59	0.079	0.079	ND	U	0.58	0.077	0.077
	BUTYL BENZYL PHTHALATE	260	ND	U	0.46	0.097	0.097	ND	U	0.24	0.05	0.05	ND	U	0.23	0.049	0.049

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-31					FFOR-EXC-32					FFOR-EXC-33				
	SAMPLE NO		FFOR-CF-0034					FFOR-CF-0035					FFOR-CF-0036				
	SAMPLE DATE		25-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.46	0.1	0.1	ND	U	0.24	0.053	0.053	ND	U	0.23	0.052	0.052
	CHRYSENE	148	ND	U	0.46	0.12	0.12	ND	U	0.24	0.06	0.06	ND	U	0.23	0.059	0.059
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.46	0.14	0.14	ND	U	0.24	0.07	0.07	ND	U	0.23	0.068	0.068
	DIBENZOFURAN	78	ND	U	0.46	0.15	0.15	ND	U	0.24	0.079	0.079	ND	U	0.23	0.077	0.077
	DIETHYL PHTHALATE	48,900	ND	U	0.46	0.1	0.1	ND	U	0.24	0.053	0.053	ND	U	0.23	0.052	0.052
	DIMETHYL PHTHALATE	611,000	ND	U	0.46	0.13	0.13	ND	U	0.24	0.065	0.065	ND	U	0.23	0.064	0.064
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.1	0.1	ND	U	0.59	0.053	0.053	ND	U	0.58	0.052	0.052
	DI-N-OCTYL PHTHALATE	610	ND	U	0.92	0.57	0.57	ND	U	0.47	0.29	0.29	ND	U	0.46	0.29	0.29
	FLUORANTHENE	2,290	ND	U	0.46	0.1	0.1	ND	U	0.24	0.053	0.053	ND	U	0.23	0.052	0.052
	FLUORENE	2,290	ND	U	0.46	0.13	0.13	ND	U	0.24	0.069	0.069	ND	U	0.23	0.067	0.067
	HEXACHLOROBENZENE	3.04	ND	U	0.46	0.12	0.12	ND	U	0.24	0.064	0.064	ND	U	0.23	0.063	0.063
	HEXACHLOROBUTADIENE	61.1	ND	U	0.46	0.11	0.11	ND	U	0.24	0.056	0.056	ND	U	0.23	0.055	0.055
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.46	0.15	0.15	ND	U	0.24	0.076	0.076	ND	U	0.23	0.074	0.074
	HEXACHLOROETHANE	42.8	ND	U	0.46	0.16	0.16	ND	U	0.24	0.083	0.083	ND	U	0.23	0.081	0.081
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.46	0.15	0.15	ND	U	0.24	0.078	0.078	ND	U	0.23	0.076	0.076
	ISOPHORONE	5,120	ND	U	1.1	0.15	0.15	ND	U	0.59	0.077	0.077	ND	U	0.58	0.075	0.075
	NAPHTHALENE	43	ND	U	0.46	0.11	0.11	ND	U	0.24	0.056	0.056	ND	U	0.23	0.055	0.055
	NITROBENZENE	53.5	ND	U	1.1	0.13	0.13	ND	U	0.59	0.066	0.066	ND	U	0.58	0.064	0.064
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.46	0.17	0.17	ND	U	0.24	0.089	0.089	ND	U	0.23	0.087	0.087
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.46	0.15	0.15	ND	U	0.24	0.078	0.078	ND	U	0.23	0.076	0.076
	N-NITROSODIPHENYLAMINE	993	ND	U	0.46	0.13	0.13	ND	U	0.24	0.069	0.069	ND	U	0.23	0.067	0.067
	PENTACHLOROPHENOL	8.94	ND	U	0.92	0.19	0.19	ND	U	0.47	0.095	0.095	ND	U	0.46	0.093	0.093
	PHENANTHRENE	1,830	ND	U	0.46	0.083	0.083	ND	U	0.24	0.043	0.043	ND	U	0.23	0.042	0.042
	PHENOL	18,300	ND	U	0.46	0.13	0.13	ND	U	0.24	0.069	0.069	ND	U	0.23	0.067	0.067
	PYRENE	1,720	ND	U	0.46	0.12	0.12	ND	U	0.24	0.064	0.064	ND	U	0.23	0.062	0.062
	PYRIDINE	78	ND	U	1.1	0.13	0.13	ND	U	0.59	0.065	0.065	ND	U	0.58	0.064	0.064
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-31					FFOR-EXC-32					FFOR-EXC-33				
	SAMPLE NO		FFOR-CF-0034					FFOR-CF-0035					FFOR-CF-0036				
	SAMPLE DATE		25-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1-DICHLOROETHANE	64.5	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1-DICHLOROETHENE	449	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,1-DICHLOROPROPENE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2-DIBROMOETHANE	0.588	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2-DICHLOROETHANE	7.89	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,3-DICHLOROBENZENE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	2,2-DICHLOROPROPANE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	2-BUTANONE	37,100	ND	UJ	0.00613	0.00613	0.00613	ND	UJ	0.00642	0.00642	0.00642	ND	UJ	0.00545	0.00545	0.00545
	2-CHLOROTOLUENE	1,560	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	2-HEXANONE	210	ND	U	0.00613	0.00613	0.00613	ND	U	0.00642	0.00642	0.00642	ND	U	0.00545	0.00545	0.00545
	4-CHLOROTOLUENE	1,600	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00613	0.00613	0.00613	ND	U	0.00642	0.00642	0.00642	ND	U	0.00545	0.00545	0.00545
	ACETONE	66,600	0.00891		0.00613	0.00613	0.00613	0.0101		0.00642	0.00642	0.00642	0.0111		0.00545	0.00545	0.00545
	BENZENE	15.4	ND	U	0.00123	0.000613	0.000613	0.00086	J	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	BROMOBENZENE	300	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	BROMOCHLOROMETHANE	160	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	BROMODICHLOROMETHANE	5.41	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	BROMOFORM	616	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	BROMOMETHANE	16.5	ND	UJ	0.00307	0.000613	0.000613	ND	UJ	0.00321	0.000642	0.000642	ND	UJ	0.00272	0.000545	0.000545
	CARBON DISULFIDE	1,530	ND	U	0.00613	0.00613	0.00613	ND	U	0.00642	0.00642	0.00642	ND	U	0.00545	0.00545	0.00545
	CARBON TETRACHLORIDE	10.8	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CHLOROBENZENE	376	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CHLOROETHANE	29,800	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CHLOROFORM	5.86	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CHLOROMETHANE	275	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	DIBROMOMETHANE	51.6	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	ETHYLBENZENE	68.4	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-31					FFOR-EXC-32					FFOR-EXC-33				
	SAMPLE NO	FFOR-CF-0034					FFOR-CF-0035					FFOR-CF-0036				
	SAMPLE DATE	25-Jul-14					25-Jul-14					25-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.00123	0.000613	0.000613	ND	UJ	0.00128	0.000642	0.000642	ND	UJ	0.00109	0.000545	0.000545
	METHYLENE CHLORIDE	409	ND	U	0.00307	0.00123	0.00123	ND	U	0.00321	0.00128	0.00128	ND	U	0.00272	0.00109	0.00109
	NAPHTHALENE	43	ND	U	0.00123	0.00123	0.00123	ND	U	0.00128	0.00128	0.00128	ND	U	0.00109	0.00109	0.00109
	N-BUTYLBENZENE	3,900	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	N-PROPYLBENZENE	3,400	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	SEC-BUTYLBENZENE	7,800	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	STYRENE	7,280	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TERT-BUTYLBENZENE	7,800	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TETRACHLOROETHENE	7.02	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TOLUENE	5,270	0.00076	J	0.00123	0.000613	0.000613	0.00139		0.00128	0.000642	0.000642	0.00078	J	0.00109	0.000545	0.000545
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TRICHLOROETHENE	8.77	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	VINYL ACETATE	2,560	ND	UJ	0.00613	0.00613	0.00613	ND	UJ	0.00642	0.00642	0.00642	ND	UJ	0.00545	0.00545	0.00545
	VINYL CHLORIDE	0.728	ND	U	0.00123	0.000613	0.000613	ND	U	0.00128	0.000642	0.000642	ND	U	0.00109	0.000545	0.000545
	XYLENES	814	ND	U	0.00123	0.00123	0.00123	ND	U	0.00128	0.00128	0.00128	ND	U	0.00109	0.00109	0.00109

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-34					FFOR-EXC-35					FFOR-EXC-36				
	SAMPLE NO		FFOR-CF-0037					FFOR-CF-0038					FFOR-CF-0039				
	SAMPLE DATE		25-Jul-14					29-Jul-14					29-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		15FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.5		0.3	0.22	0.22	3		0.27	0.2	0.2	2.5		0.28	0.21	0.21
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	12	6.5	6.5	130	J+	11	5.9	5.9	ND	U	11	6.2	6.2
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3	0.39	0.39	4.3	J	21	2.7	2.7	ND	U	4.4	0.58	0.58
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	59	59	59	ND	U	53	53	53	ND	U	56	56	56
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.23	0.066	0.066	ND	U	0.44	0.13	0.13	ND	U	0.23	0.067	0.067
	1,2-DICHLOROBENZENE	2,310	ND	U	0.23	0.045	0.045	ND	U	0.44	0.086	0.086	ND	U	0.23	0.045	0.045
	1,3-DICHLOROBENZENE	NE	ND	U	0.23	0.065	0.065	ND	U	0.44	0.12	0.12	ND	U	0.23	0.065	0.065
	1,4-DICHLOROBENZENE	31.7	ND	U	0.23	0.071	0.071	ND	U	0.44	0.14	0.14	ND	U	0.23	0.072	0.072
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.23	0.051	0.051	ND	U	0.44	0.098	0.098	ND	U	0.23	0.051	0.051
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.23	0.062	0.062	ND	U	0.44	0.12	0.12	ND	U	0.23	0.063	0.063
	2,4-DICHLOROPHENOL	183	ND	U	0.46	0.07	0.07	ND	U	0.88	0.14	0.14	ND	U	0.46	0.071	0.071
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.34	0.068	0.068	ND	U	0.66	0.13	0.13	ND	U	0.35	0.069	0.069
	2,4-DINITROPHENOL	122	ND	U	0.57	0.081	0.081	ND	U	1.1	0.16	0.16	ND	U	0.58	0.081	0.081
	2,4-DINITROTOLUENE	15.7	ND	U	0.57	0.084	0.084	ND	U	1.1	0.16	0.16	ND	U	0.58	0.085	0.085
	2,6-DINITROTOLUENE	61.1	ND	U	0.57	0.068	0.068	ND	U	1.1	0.13	0.13	ND	U	0.58	0.068	0.068
	2-CHLORONAPHTHALENE	6,260	ND	U	0.29	0.065	0.065	ND	U	0.55	0.13	0.13	ND	U	0.29	0.066	0.066
	2-CHLOROPHENOL	391	ND	U	0.23	0.071	0.071	ND	U	0.44	0.14	0.14	ND	U	0.23	0.072	0.072
	2-METHYLNAPHTHALENE	230	ND	U	0.23	0.068	0.068	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069
	2-METHYLPHENOL	3,100	ND	U	0.57	0.065	0.065	ND	U	1.1	0.13	0.13	ND	U	0.58	0.066	0.066
	2-NITROANILINE	610	ND	U	0.23	0.055	0.055	ND	U	0.44	0.11	0.11	ND	U	0.23	0.056	0.056
	2-NITROPHENOL	NE	ND	U	0.23	0.063	0.063	ND	U	0.44	0.12	0.12	ND	U	0.23	0.063	0.063
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.29	0.063	0.063	ND	U	0.55	0.12	0.12	ND	U	0.29	0.064	0.064
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.23	0.077	0.077	ND	U	0.44	0.15	0.15	ND	U	0.23	0.078	0.078
	3-NITROANILINE	NE	ND	U	0.23	0.067	0.067	ND	U	0.44	0.13	0.13	ND	U	0.23	0.067	0.067
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.57	0.047	0.047	ND	U	1.1	0.091	0.091	ND	U	0.58	0.047	0.047
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.23	0.058	0.058	ND	U	0.44	0.11	0.11	ND	U	0.23	0.058	0.058
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.57	0.06	0.06	ND	U	1.1	0.12	0.12	ND	U	0.58	0.061	0.061
	4-CHLOROANILINE	2.4	ND	U	0.57	0.06	0.06	ND	U	1.1	0.12	0.12	ND	U	0.58	0.061	0.061
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.23	0.065	0.065	ND	U	0.44	0.13	0.13	ND	U	0.23	0.065	0.065
	4-NITROANILINE	24	ND	U	0.46	0.055	0.055	ND	U	0.88	0.11	0.11	ND	U	0.46	0.055	0.055
	4-NITROPHENOL	NE	ND	U	0.29	0.07	0.07	ND	U	0.55	0.14	0.14	ND	U	0.29	0.071	0.071
	ACENAPHTHENE	3440	ND	U	0.23	0.055	0.055	ND	U	0.44	0.11	0.11	ND	U	0.23	0.055	0.055
	ACENAPHTHYLENE	NE	ND	U	0.23	0.056	0.056	ND	U	0.44	0.11	0.11	ND	U	0.23	0.056	0.056
	ANTHRACENE	17,200	ND	U	0.23	0.049	0.049	ND	U	0.44	0.096	0.096	ND	U	0.23	0.05	0.05
	BENZENAMINE	85	ND	U	0.23	0.068	0.068	ND	U	0.44	0.13	0.13	ND	U	0.23	0.068	0.068
	BENZO(A)ANTHRACENE	1.48	ND	U	0.23	0.062	0.062	0.23	J	0.44	0.12	0.12	ND	U	0.23	0.063	0.063
	BENZO(A)PYRENE	0.148	ND	U	0.23	0.069	0.069	**0.15**	J	0.44	0.13	0.13	ND	U	0.23	0.069	0.069
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.23	0.078	0.078	0.23	J	0.44	0.15	0.15	ND	U	0.23	0.079	0.079
	BENZO(GHI)PERYLENE	NE	ND	U	0.23	0.069	0.069	ND	U	0.44	0.13	0.13	ND	U	0.23	0.07	0.07
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.23	0.087	0.087	ND	U	0.44	0.17	0.17	ND	U	0.23	0.088	0.088
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.23	0.077	0.077	ND	U	0.44	0.15	0.15	ND	U	0.23	0.078	0.078
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.23	0.092	0.092	ND	U	0.44	0.18	0.18	ND	U	0.23	0.092	0.092
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.23	0.042	0.042	ND	U	0.44	0.082	0.082	ND	U	0.23	0.043	0.043
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.57	0.077	0.077	ND	U	1.1	0.15	0.15	ND	U	0.58	0.078	0.078
	BUTYL BENZYL PHTHALATE	260	ND	U	0.23	0.049	0.049	ND	U	0.44	0.094	0.094	ND	U	0.23	0.049	0.049

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-34					FFOR-EXC-35					FFOR-EXC-36				
	SAMPLE NO		FFOR-CF-0037					FFOR-CF-0038					FFOR-CF-0039				
	SAMPLE DATE		25-Jul-14					29-Jul-14					29-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		15FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.23	0.051	0.051	ND	U	0.44	0.099	0.099	ND	U	0.23	0.052	0.052
	CHRYSENE	148	ND	U	0.23	0.058	0.058	0.14	J	0.44	0.11	0.11	ND	U	0.23	0.059	0.059
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.23	0.068	0.068	ND	U	0.44	0.13	0.13	ND	U	0.23	0.069	0.069
	DIBENZOFURAN	78	ND	U	0.23	0.077	0.077	ND	U	0.44	0.15	0.15	ND	U	0.23	0.077	0.077
	DIETHYL PHTHALATE	48,900	ND	U	0.23	0.051	0.051	ND	U	0.44	0.099	0.099	ND	U	0.23	0.052	0.052
	DIMETHYL PHTHALATE	611,000	ND	U	0.23	0.063	0.063	ND	U	0.44	0.12	0.12	ND	U	0.23	0.064	0.064
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.57	0.051	0.051	ND	U	1.1	0.099	0.099	0.055	J	0.58	0.052	0.052
	DI-N-OCTYL PHTHALATE	610	ND	U	0.46	0.29	0.29	ND	U	0.88	0.55	0.55	ND	U	0.46	0.29	0.29
	FLUORANTHENE	2,290	ND	U	0.23	0.051	0.051	ND	U	0.44	0.099	0.099	ND	U	0.23	0.052	0.052
	FLUORENE	2,290	ND	U	0.23	0.067	0.067	ND	U	0.44	0.13	0.13	ND	U	0.23	0.067	0.067
	HEXACHLOROBENZENE	3.04	ND	U	0.23	0.062	0.062	ND	U	0.44	0.12	0.12	ND	U	0.23	0.063	0.063
	HEXACHLOROBUTADIENE	61.1	ND	U	0.23	0.055	0.055	ND	U	0.44	0.11	0.11	ND	U	0.23	0.055	0.055
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.23	0.074	0.074	ND	U	0.44	0.14	0.14	ND	U	0.23	0.075	0.075
	HEXACHLOROETHANE	42.8	ND	U	0.23	0.08	0.08	ND	U	0.44	0.15	0.15	ND	U	0.23	0.081	0.081
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.23	0.076	0.076	ND	U	0.44	0.15	0.15	ND	U	0.23	0.076	0.076
	ISOPHORONE	5,120	ND	U	0.57	0.075	0.075	ND	U	1.1	0.14	0.14	ND	U	0.58	0.076	0.076
	NAPHTHALENE	43	ND	U	0.23	0.054	0.054	ND	U	0.44	0.11	0.11	ND	U	0.23	0.055	0.055
	NITROBENZENE	53.5	ND	U	0.57	0.064	0.064	ND	U	1.1	0.12	0.12	ND	U	0.58	0.064	0.064
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.23	0.086	0.086	ND	U	0.44	0.17	0.17	ND	U	0.23	0.087	0.087
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.23	0.076	0.076	ND	U	0.44	0.15	0.15	ND	U	0.23	0.076	0.076
	N-NITROSODIPHENYLAMINE	993	ND	U	0.23	0.067	0.067	ND	U	0.44	0.13	0.13	ND	U	0.23	0.067	0.067
	PENTACHLOROPHENOL	8.94	ND	U	0.46	0.093	0.093	ND	U	0.88	0.18	0.18	ND	U	0.46	0.094	0.094
	PHENANTHRENE	1,830	ND	U	0.23	0.041	0.041	ND	U	0.44	0.08	0.08	ND	U	0.23	0.042	0.042
	PHENOL	18,300	ND	U	0.23	0.067	0.067	ND	U	0.44	0.13	0.13	ND	U	0.23	0.068	0.068
	PYRENE	1,720	ND	U	0.23	0.062	0.062	0.16	J	0.44	0.12	0.12	ND	U	0.23	0.062	0.062
	PYRIDINE	78	ND	U	0.57	0.063	0.063	ND	U	1.1	0.12	0.12	ND	U	0.58	0.064	0.064
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-34					FFOR-EXC-35					FFOR-EXC-36				
	SAMPLE NO	FFOR-CF-0037					FFOR-CF-0038					FFOR-CF-0039				
	SAMPLE DATE	25-Jul-14					29-Jul-14					29-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	15FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.025	0.025	ND	U	0.044	0.0053	0.0053
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.021	0.021	ND	U	0.044	0.0045	0.0045
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.035	0.035	ND	U	0.044	0.0074	0.0074
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.026	0.026	ND	U	0.044	0.0054	0.0054
	1,1-DICHLOROETHANE	64.5	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.015	0.015	ND	U	0.044	0.0031	0.0031
	1,1-DICHLOROETHENE	449	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.017	0.017	ND	U	0.044	0.0036	0.0036
	1,1-DICHLOROPROPENE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.033	0.033	ND	U	0.089	0.0069	0.0069
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.024	0.024	ND	U	0.089	0.005	0.005
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.032	0.032	ND	U	0.089	0.0067	0.0067
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.026	0.026	ND	U	0.044	0.0054	0.0054
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.029	0.029	ND	U	0.089	0.0061	0.0061
	1,2-DIBROMOETHANE	0.588	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.024	0.024	ND	U	0.044	0.0051	0.0051
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.025	0.025	ND	U	0.044	0.0053	0.0053
	1,2-DICHLOROETHANE	7.89	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.035	0.035	ND	U	0.044	0.0073	0.0073
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.019	0.019	ND	U	0.044	0.0039	0.0039
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.022	0.022	ND	U	0.044	0.0047	0.0047
	1,3-DICHLOROBENZENE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.025	0.025	ND	U	0.044	0.0053	0.0053
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.04	0.04	ND	U	0.044	0.0083	0.0083
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.025	0.025	ND	U	0.044	0.0053	0.0053
	2,2-DICHLOROPROPANE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.023	0.023	ND	U	0.089	0.0048	0.0048
	2-BUTANONE	37,100	ND	UJ	0.00607	0.00607	0.00607	ND	U	2.1	0.097	0.097	ND	U	0.44	0.02	0.02
	2-CHLOROTOLUENE	1,560	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.019	0.019	ND	U	0.044	0.0039	0.0039
	2-HEXANONE	210	ND	U	0.00607	0.00607	0.00607	ND	U	2.1	0.1	0.1	ND	U	0.44	0.021	0.021
	4-CHLOROTOLUENE	1,600	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.061	0.061	ND	U	0.044	0.013	0.013
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00607	0.00607	0.00607	ND	U	2.1	0.082	0.082	ND	U	0.44	0.017	0.017
	ACETONE	66,600	0.00867		0.00607	0.00607	0.00607	ND	U	3.2	0.21	0.21	ND	U	0.67	0.043	0.043
	BENZENE	15.4	0.00081	J	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	BROMOBENZENE	300	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.033	0.033	ND	U	0.044	0.0069	0.0069
	BROMOCHLOROMETHANE	160	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.097	0.097	ND	U	0.044	0.02	0.02
	BROMODICHLOROMETHANE	5.41	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.027	0.027	ND	U	0.044	0.0057	0.0057
	BROMOFORM	616	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.02	0.02	ND	U	0.044	0.0042	0.0042
	BROMOMETHANE	16.5	ND	UJ	0.00304	0.000607	0.000607	ND	U	0.63	0.03	0.03	ND	U	0.13	0.0064	0.0064
	CARBON DISULFIDE	1,530	ND	U	0.00607	0.00607	0.00607	ND	U	2.1	0.056	0.056	ND	U	0.44	0.012	0.012
	CARBON TETRACHLORIDE	10.8	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.03	0.03	ND	U	0.044	0.0062	0.0062
	CHLOROBENZENE	376	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	CHLOROETHANE	29,800	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.035	0.035	ND	U	0.089	0.0074	0.0074
	CHLOROFORM	5.86	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.073	0.073	ND	U	0.044	0.015	0.015
	CHLOROMETHANE	275	ND	U	0.00121	0.000607	0.000607	ND	U	0.63	0.019	0.019	ND	U	0.13	0.0041	0.0041
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.019	0.019	ND	U	0.044	0.0041	0.0041
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.026	0.026	ND	U	0.044	0.0055	0.0055
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.021	0.021	ND	U	0.044	0.0044	0.0044
	DIBROMOMETHANE	51.6	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.024	0.024	ND	U	0.044	0.0051	0.0051
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.051	0.051	ND	U	0.044	0.011	0.011
	ETHYLBENZENE	68.4	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0047	0.0047
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00121	0.000607	0.000607	ND	U	0.42	0.031	0.031	ND	U	0.089	0.0065	0.0065

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-34					FFOR-EXC-35					FFOR-EXC-36				
	SAMPLE NO		FFOR-CF-0037					FFOR-CF-0038					FFOR-CF-0039				
	SAMPLE DATE		25-Jul-14					29-Jul-14					29-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		15FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.017	0.017	ND	U	0.044	0.0035	0.0035
	METHYL TERT-BUTYL ETHER	901	ND	UJ	0.00121	0.000607	0.000607	ND	U	0.21	0.079	0.079	ND	U	0.044	0.017	0.017
	METHYLENE CHLORIDE	409	ND	U	0.00304	0.00121	0.00121	ND	U	0.63	0.02	0.02	ND	U	0.13	0.0042	0.0042
	NAPHTHALENE	43	ND	U	0.00121	0.00121	0.00121	ND	U	0.42	0.018	0.018	ND	U	0.089	0.0037	0.0037
	N-BUTYLBENZENE	3,900	ND	U	0.00121	0.000607	0.000607	ND	U	0.63	0.019	0.019	ND	U	0.13	0.0039	0.0039
	N-PROPYLBENZENE	3,400	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.021	0.021	ND	U	0.044	0.0045	0.0045
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.019	0.019	ND	U	0.044	0.004	0.004
	SEC-BUTYLBENZENE	7,800	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.02	0.02	ND	U	0.044	0.0043	0.0043
	STYRENE	7,280	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.017	0.017	ND	U	0.044	0.0035	0.0035
	TERT-BUTYLBENZENE	7,800	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	TETRACHLOROETHENE	7.02	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.026	0.026	ND	U	0.044	0.0055	0.0055
	TOLUENE	5,270	0.00123		0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.023	0.023	ND	U	0.044	0.0049	0.0049
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.029	0.029	ND	U	0.044	0.0061	0.0061
	TRICHLOROETHENE	8.77	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.029	0.029	ND	U	0.044	0.0062	0.0062
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.022	0.022	ND	U	0.044	0.0046	0.0046
	VINYL ACETATE	2,560	ND	UJ	0.00607	0.00607	0.00607	ND	U	2.1	2.1	2.1	ND	U	0.44	0.44	0.44
	VINYL CHLORIDE	0.728	ND	U	0.00121	0.000607	0.000607	ND	U	0.21	0.017	0.017	ND	U	0.044	0.0037	0.0037
	XYLENES	814	ND	U	0.00121	0.00121	0.00121	ND	U	0.42	0.063	0.063	ND	U	0.089	0.013	0.013

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-37					FFOR-EXC-38					FFOR-EXC-39				
	SAMPLE NO		FFOR-CF-0040					FFOR-CF-0041					FFOR-CF-0042				
	SAMPLE DATE		29-Jul-14					31-Jul-14					7-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.4		0.27	0.2	0.2	3		0.27	0.2	0.2	8.6		1.4	0.62	0.62
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	**5,100**		110	61	61	**9,900**	J-	1100	600	600	650		11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	200		82	11	11	710		32	4.1	4.1	290		40	5.2	5.2
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	550	550	550	ND	UJ	5500	5500	5500	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.63	0.63	ND	U	0.22	0.064	0.064
	1,2-DICHLOROBENZENE	2,310	ND	U	0.45	0.087	0.087	ND	UJ	2.2	0.43	0.43	ND	U	0.22	0.043	0.043
	1,3-DICHLOROBENZENE	NE	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.62	0.62	ND	U	0.22	0.063	0.063
	1,4-DICHLOROBENZENE	31.7	ND	U	0.45	0.14	0.14	ND	UJ	2.2	0.68	0.68	ND	U	0.22	0.069	0.069
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.45	0.099	0.099	ND	UJ	2.2	0.49	0.49	ND	U	0.22	0.049	0.049
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.45	0.12	0.12	ND	UJ	2.2	0.6	0.6	ND	U	0.22	0.061	0.061
	2,4-DICHLOROPHENOL	183	ND	U	0.89	0.14	0.14	ND	UJ	4.4	0.67	0.67	ND	U	0.44	0.068	0.068
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.67	0.13	0.13	ND	UJ	3.3	0.65	0.65	ND	U	0.33	0.066	0.066
	2,4-DINITROPHENOL	122	ND	U	1.1	0.16	0.16	ND	UJ	5.5	0.77	0.77	ND	U	0.55	0.078	0.078
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.16	0.16	ND	UJ	5.5	0.81	0.81	ND	U	0.55	0.082	0.082
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.13	0.13	ND	UJ	5.5	0.65	0.65	ND	U	0.55	0.066	0.066
	2-CHLORONAPHTHALENE	6,260	ND	U	0.56	0.13	0.13	ND	UJ	2.7	0.63	0.63	ND	U	0.28	0.063	0.063
	2-CHLOROPHENOL	391	ND	U	0.45	0.14	0.14	ND	UJ	2.2	0.68	0.68	ND	U	0.22	0.069	0.069
	2-METHYLNAPHTHALENE	230	ND	U	0.45	0.13	0.13	22	J-	2.2	0.65	0.65	1.5		0.22	0.066	0.066
	2-METHYLPHENOL	3,100	ND	U	1.1	0.13	0.13	ND	UJ	5.5	0.63	0.63	ND	U	0.55	0.063	0.063
	2-NITROANILINE	610	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.53	0.53	ND	U	0.22	0.053	0.053
	2-NITROPHENOL	NE	ND	U	0.45	0.12	0.12	ND	UJ	2.2	0.6	0.6	ND	U	0.22	0.061	0.061
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.56	0.12	0.12	ND	UJ	2.7	0.61	0.61	ND	U	0.28	0.061	0.061
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.74	0.74	ND	U	0.22	0.075	0.075
	3-NITROANILINE	NE	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.64	0.64	ND	U	0.22	0.065	0.065
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.091	0.091	ND	UJ	5.5	0.45	0.45	ND	U	0.55	0.045	0.045
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.55	0.55	ND	U	0.22	0.056	0.056
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.12	0.12	ND	UJ	5.5	0.58	0.58	ND	U	0.55	0.059	0.059
	4-CHLOROANILINE	2.4	ND	U	1.1	0.12	0.12	ND	UJ	5.5	0.58	0.58	ND	U	0.55	0.059	0.059
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.62	0.62	ND	U	0.22	0.063	0.063
	4-NITROANILINE	24	ND	U	0.89	0.11	0.11	ND	UJ	4.4	0.53	0.53	ND	U	0.44	0.053	0.053
	4-NITROPHENOL	NE	ND	U	0.56	0.14	0.14	ND	UJ	2.7	0.67	0.67	ND	U	0.28	0.068	0.068
	ACENAPHTHENE	3440	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.53	0.53	ND	U	0.22	0.053	0.053
	ACENAPHTHYLENE	NE	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.53	0.53	ND	U	0.22	0.054	0.054
	ANTHRACENE	17,200	ND	U	0.45	0.096	0.096	ND	UJ	2.2	0.47	0.47	ND	U	0.22	0.048	0.048
	BENZENAMINE	85	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.65	0.65	ND	U	0.22	0.066	0.066
	BENZO(A)ANTHRACENE	1.48	0.22	J	0.45	0.12	0.12	1	J-	2.2	0.59	0.59	0.13	J	0.22	0.06	0.06
	BENZO(A)PYRENE	0.148	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.66	0.66	0.12	J	0.22	0.067	0.067
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.75	0.75	0.2	J	0.22	0.076	0.076
	BENZO(GHI)PERYLENE	NE	ND	U	0.45	0.14	0.14	ND	UJ	2.2	0.66	0.66	0.23		0.22	0.067	0.067
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.45	0.17	0.17	ND	UJ	2.2	0.83	0.83	ND	U	0.22	0.084	0.084
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.74	0.74	ND	U	0.22	0.075	0.075
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.45	0.18	0.18	ND	UJ	2.2	0.88	0.88	ND	U	0.22	0.089	0.089
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.45	0.083	0.083	ND	UJ	2.2	0.41	0.41	ND	U	0.22	0.041	0.041
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1.1	0.15	0.15	ND	UJ	5.5	0.74	0.74	ND	U	0.55	0.075	0.075
	BUTYL BENZYL PHTHALATE	260	ND	U	0.45	0.095	0.095	ND	UJ	2.2	0.47	0.47	ND	U	0.22	0.047	0.047

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-37					FFOR-EXC-38					FFOR-EXC-39				
	SAMPLE NO		FFOR-CF-0040					FFOR-CF-0041					FFOR-CF-0042				
	SAMPLE DATE		29-Jul-14					31-Jul-14					7-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.45	0.1	0.1	ND	UJ	2.2	0.49	0.49	ND	U	0.22	0.05	0.05
	CHRYSENE	148	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.56	0.56	0.11	J	0.22	0.056	0.056
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.65	0.65	ND	U	0.22	0.066	0.066
	DIBENZOFURAN	78	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.73	0.73	ND	U	0.22	0.074	0.074
	DIETHYL PHTHALATE	48,900	ND	U	0.45	0.1	0.1	ND	UJ	2.2	0.49	0.49	ND	U	0.22	0.05	0.05
	DIMETHYL PHTHALATE	611,000	ND	U	0.45	0.12	0.12	ND	UJ	2.2	0.61	0.61	ND	U	0.22	0.062	0.062
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.1	0.1	ND	UJ	5.5	0.49	0.49	0.066	J	0.55	0.05	0.05
	DI-N-OCTYL PHTHALATE	610	ND	U	0.89	0.56	0.56	ND	UJ	4.4	2.7	2.7	ND	U	0.44	0.28	0.28
	FLUORANTHENE	2,290	ND	U	0.45	0.1	0.1	ND	UJ	2.2	0.49	0.49	0.12	J	0.22	0.05	0.05
	FLUORENE	2,290	0.15	J	0.45	0.13	0.13	ND	UJ	2.2	0.64	0.64	ND	U	0.22	0.065	0.065
	HEXACHLOROBENZENE	3.04	ND	U	0.45	0.12	0.12	ND	UJ	2.2	0.6	0.6	ND	U	0.22	0.06	0.06
	HEXACHLOROBUTADIENE	61.1	ND	U	0.45	0.11	0.11	ND	UJ	2.2	0.53	0.53	ND	U	0.22	0.053	0.053
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.45	0.14	0.14	ND	UJ	2.2	0.71	0.71	ND	U	0.22	0.072	0.072
	HEXACHLOROETHANE	42.8	ND	U	0.45	0.16	0.16	ND	UJ	2.2	0.77	0.77	ND	U	0.22	0.078	0.078
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.73	0.73	0.28		0.22	0.073	0.073
	ISOPHORONE	5,120	ND	U	1.1	0.15	0.15	ND	UJ	5.5	0.72	0.72	ND	U	0.55	0.073	0.073
	NAPHTHALENE	43	ND	U	0.45	0.11	0.11	13	J-	2.2	0.52	0.52	0.52		0.22	0.053	0.053
	NITROBENZENE	53.5	ND	U	1.1	0.12	0.12	ND	UJ	5.5	0.61	0.61	ND	U	0.55	0.062	0.062
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.45	0.17	0.17	ND	UJ	2.2	0.83	0.83	ND	U	0.22	0.084	0.084
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.45	0.15	0.15	ND	UJ	2.2	0.73	0.73	ND	U	0.22	0.074	0.074
	N-NITROSODIPHENYLAMINE	993	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.64	0.64	ND	U	0.22	0.065	0.065
	PENTACHLOROPHENOL	8.94	ND	U	0.89	0.18	0.18	ND	UJ	4.4	0.89	0.89	ND	U	0.44	0.09	0.09
	PHENANTHRENE	1,830	ND	U	0.45	0.081	0.081	ND	UJ	2.2	0.4	0.4	0.058	J	0.22	0.04	0.04
	PHENOL	18,300	ND	U	0.45	0.13	0.13	ND	UJ	2.2	0.64	0.64	ND	U	0.22	0.065	0.065
	PYRENE	1,720	ND	U	0.45	0.12	0.12	ND	UJ	2.2	0.59	0.59	0.27		0.22	0.06	0.06
	PYRIDINE	78	ND	U	1.1	0.12	0.12	ND	UJ	5.5	0.61	0.61	ND	U	0.55	0.061	0.061
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-37					FFOR-EXC-38					FFOR-EXC-39				
	SAMPLE NO		FFOR-CF-0040					FFOR-CF-0041					FFOR-CF-0042				
	SAMPLE DATE		29-Jul-14					31-Jul-14					7-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.82	0.099	0.099	ND	U	0.32	0.038	0.038	ND	U	0.4	0.048	0.048
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.82	0.083	0.083	ND	U	0.32	0.032	0.032	ND	U	0.4	0.04	0.04
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.82	0.14	0.14	ND	U	0.32	0.053	0.053	ND	U	0.4	0.067	0.067
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.82	0.1	0.1	ND	U	0.32	0.039	0.039	ND	U	0.4	0.049	0.049
	1,1-DICHLOROETHANE	64.5	ND	U	0.82	0.056	0.056	ND	U	0.32	0.022	0.022	ND	U	0.4	0.028	0.028
	1,1-DICHLOROETHENE	449	ND	U	0.82	0.066	0.066	ND	U	0.32	0.025	0.025	ND	U	0.4	0.032	0.032
	1,1-DICHLOROPROPENE	NE	ND	U	1.6	0.13	0.13	ND	U	0.64	0.049	0.049	ND	U	0.8	0.062	0.062
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	1.6	0.092	0.092	ND	U	0.64	0.036	0.036	ND	U	0.8	0.045	0.045
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	1.6	0.12	0.12	ND	U	0.64	0.048	0.048	ND	U	0.8	0.061	0.061
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.82	0.091	0.091	ND	U	0.32	0.035	0.035	ND	U	0.4	0.045	0.045
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.82	0.1	0.1	24	J+	0.32	0.039	0.039	1		0.4	0.049	0.049
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	1.6	0.11	0.11	ND	U	0.64	0.043	0.043	ND	U	0.8	0.055	0.055
	1,2-DIBROMOETHANE	0.588	ND	U	0.82	0.094	0.094	ND	U	0.32	0.036	0.036	ND	U	0.4	0.046	0.046
	1,2-DICHLOROBENZENE	2,310	ND	U	0.82	0.097	0.097	ND	U	0.32	0.038	0.038	ND	U	0.4	0.048	0.048
	1,2-DICHLOROETHANE	7.89	ND	U	0.82	0.14	0.14	ND	U	0.32	0.052	0.052	ND	U	0.4	0.066	0.066
	1,2-DICHLOROPROPANE	15.2	ND	U	0.82	0.073	0.073	ND	U	0.32	0.028	0.028	ND	U	0.4	0.036	0.036
	1,3,5-TRIMETHYLBENZENE	780	0.65	J	0.82	0.088	0.088	6.1	J+	0.32	0.034	0.034	0.5		0.4	0.043	0.043
	1,3-DICHLOROBENZENE	NE	ND	U	0.82	0.099	0.099	ND	U	0.32	0.038	0.038	ND	U	0.4	0.048	0.048
	1,3-DICHLOROPROPANE	1,600	ND	U	0.82	0.15	0.15	ND	U	0.32	0.06	0.06	ND	U	0.4	0.075	0.075
	1,4-DICHLOROBENZENE	31.7	ND	U	0.82	0.098	0.098	ND	U	0.32	0.038	0.038	ND	U	0.4	0.048	0.048
	2,2-DICHLOROPROPANE	NE	ND	U	1.6	0.089	0.089	ND	U	0.64	0.034	0.034	ND	U	0.8	0.043	0.043
	2-BUTANONE	37,100	ND	U	8.2	0.38	0.38	0.65	J+	3.2	0.15	0.15	ND	U	4	0.18	0.18
	2-CHLOROTOLUENE	1,560	ND	U	0.82	0.073	0.073	ND	U	0.32	0.028	0.028	ND	U	0.4	0.036	0.036
	2-HEXANONE	210	ND	U	8.2	0.39	0.39	ND	U	3.2	0.15	0.15	ND	U	4	0.19	0.19
	4-CHLOROTOLUENE	1,600	ND	U	0.82	0.24	0.24	ND	U	0.32	0.092	0.092	ND	U	0.4	0.12	0.12
	4-METHYL-2-PENTANONE	5821.1142	ND	U	8.2	0.32	0.32	ND	U	3.2	0.12	0.12	ND	U	4	0.16	0.16
	ACETONE	66,600	ND	U	12	0.8	0.8	ND	UJ	4.8	0.31	0.31	ND	U	6	0.39	0.39
	BENZENE	15.4	ND	U	0.82	0.09	0.09	ND	U	0.32	0.035	0.035	ND	U	0.4	0.044	0.044
	BROMOBENZENE	300	ND	U	0.82	0.13	0.13	ND	U	0.32	0.049	0.049	ND	U	0.4	0.063	0.063
	BROMOCHLOROMETHANE	160	ND	U	0.82	0.38	0.38	ND	U	0.32	0.15	0.15	ND	U	0.4	0.18	0.18
	BROMODICHLOROMETHANE	5.41	ND	U	0.82	0.11	0.11	ND	U	0.32	0.041	0.041	ND	U	0.4	0.052	0.052
	BROMOFORM	616	ND	U	0.82	0.077	0.077	ND	U	0.32	0.03	0.03	ND	U	0.4	0.038	0.038
	BROMOMETHANE	16.5	ND	U	2.5	0.12	0.12	ND	U	0.96	0.046	0.046	ND	U	1.2	0.058	0.058
	CARBON DISULFIDE	1,530	ND	U	8.2	0.22	0.22	ND	U	3.2	0.084	0.084	ND	U	4	0.11	0.11
	CARBON TETRACHLORIDE	10.8	ND	U	0.82	0.12	0.12	ND	U	0.32	0.045	0.045	ND	U	0.4	0.056	0.056
	CHLOROBENZENE	376	ND	U	0.82	0.09	0.09	ND	U	0.32	0.035	0.035	ND	U	0.4	0.044	0.044
	CHLOROETHANE	29,800	ND	U	1.6	0.14	0.14	ND	U	0.64	0.053	0.053	ND	U	0.8	0.067	0.067
	CHLOROFORM	5.86	ND	U	0.82	0.29	0.29	ND	U	0.32	0.11	0.11	ND	U	0.4	0.14	0.14
	CHLOROMETHANE	275	ND	U	2.5	0.076	0.076	ND	U	0.96	0.029	0.029	ND	U	1.2	0.037	0.037
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.82	0.075	0.075	ND	U	0.32	0.029	0.029	ND	U	0.4	0.037	0.037
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.82	0.1	0.1	ND	U	0.32	0.04	0.04	ND	U	0.4	0.05	0.05
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.82	0.081	0.081	ND	U	0.32	0.031	0.031	ND	U	0.4	0.039	0.039
	DIBROMOMETHANE	51.6	ND	U	0.82	0.094	0.094	ND	U	0.32	0.037	0.037	ND	U	0.4	0.046	0.046
	DICHLORODIFLUOROMETHANE	168	ND	U	0.82	0.2	0.2	ND	U	0.32	0.077	0.077	ND	U	0.4	0.097	0.097
	ETHYLBENZENE	68.4	ND	U	0.82	0.088	0.088	8	J+	0.32	0.034	0.034	ND	U	0.4	0.043	0.043
	HEXACHLOROBUTADIENE	61.1	ND	U	1.6	0.12	0.12	ND	U	0.64	0.047	0.047	ND	U	0.8	0.059	0.059

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-37					FFOR-EXC-38					FFOR-EXC-39				
	SAMPLE NO		FFOR-CF-0040					FFOR-CF-0041					FFOR-CF-0042				
	SAMPLE DATE		29-Jul-14					31-Jul-14					7-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.82	0.065	0.065	2.5	J+	0.32	0.025	0.025	ND	U	0.4	0.032	0.032
	METHYL TERT-BUTYL ETHER	901	ND	U	0.82	0.31	0.31	ND	U	0.32	0.12	0.12	ND	U	0.4	0.15	0.15
	METHYLENE CHLORIDE	409	ND	U	2.5	0.077	0.077	ND	UJ	0.96	0.03	0.03	ND	U	1.2	0.038	0.038
	NAPHTHALENE	43	ND	U	1.6	0.068	0.068	15	J+	0.64	0.026	0.026	0.84		0.8	0.033	0.033
	N-BUTYLBENZENE	3,900	ND	U	2.5	0.073	0.073	15	J+	0.96	0.028	0.028	ND	U	1.2	0.035	0.035
	N-PROPYLBENZENE	3,400	ND	U	0.82	0.083	0.083	6.4	J+	0.32	0.032	0.032	ND	U	0.4	0.04	0.04
	P-ISOPROPYLTOLUENE	NE	0.47	J	0.82	0.074	0.074	3.8	J+	0.32	0.029	0.029	0.27	J	0.4	0.036	0.036
	SEC-BUTYLBENZENE	7,800	ND	U	0.82	0.08	0.08	5.2	J+	0.32	0.031	0.031	ND	U	0.4	0.039	0.039
	STYRENE	7,280	ND	U	0.82	0.064	0.064	ND	U	0.32	0.025	0.025	ND	U	0.4	0.031	0.031
	TERT-BUTYLBENZENE	7,800	ND	U	0.82	0.091	0.091	ND	U	0.32	0.035	0.035	ND	U	0.4	0.044	0.044
	TETRACHLOROETHENE	7.02	ND	U	0.82	0.1	0.1	ND	U	0.32	0.039	0.039	ND	U	0.4	0.049	0.049
	TOLUENE	5,270	ND	U	0.82	0.091	0.091	2.2	J+	0.32	0.035	0.035	ND	U	0.4	0.044	0.044
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.82	0.091	0.091	ND	U	0.32	0.035	0.035	ND	U	0.4	0.045	0.045
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.82	0.11	0.11	ND	U	0.32	0.044	0.044	ND	U	0.4	0.055	0.055
	TRICHLOROETHENE	8.77	ND	U	0.82	0.11	0.11	ND	U	0.32	0.044	0.044	ND	U	0.4	0.056	0.056
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.82	0.086	0.086	ND	U	0.32	0.033	0.033	ND	U	0.4	0.042	0.042
	VINYL ACETATE	2,560	ND	U	8.2	8.2	8.2	ND	U	3.2	3.2	3.2	ND	U	4	4	4
	VINYL CHLORIDE	0.728	ND	U	0.82	0.068	0.068	ND	U	0.32	0.026	0.026	ND	U	0.4	0.033	0.033
	XYLENES	814	ND	U	1.6	0.24	0.24	15	J+	0.64	0.094	0.094	0.28	J	0.8	0.12	0.12

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-40					FFOR-EXC-40					FFOR-EXC-41				
	SAMPLE NO		FFOR-CF-0043					FFOR-CF-0044					FFOR-CF-0045				
	SAMPLE DATE		18-Aug-14					18-Aug-14					18-Aug-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		10FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	12	J-	0.29	0.13	0.13	15		0.27	0.12	0.12	3.4		0.26	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6.3	6.3	ND	U	11	6.1	6.1	ND	U	11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	5.6	0.73	0.73	ND	U	5.6	0.73	0.73	ND	U	5.5	0.71	0.71
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	57	57	57	ND	U	55	55	55	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.23	0.065	0.065	ND	U	0.22	0.064	0.064	ND	U	0.22	0.063	0.063
	1,2-DICHLOROBENZENE	2,310	ND	U	0.23	0.044	0.044	ND	U	0.22	0.043	0.043	ND	U	0.22	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.23	0.064	0.064	ND	U	0.22	0.063	0.063	ND	U	0.22	0.061	0.061
	1,4-DICHLOROBENZENE	31.7	ND	U	0.23	0.07	0.07	ND	U	0.22	0.069	0.069	ND	U	0.22	0.067	0.067
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.23	0.05	0.05	ND	U	0.22	0.049	0.049	ND	U	0.22	0.048	0.048
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.23	0.062	0.062	ND	U	0.22	0.061	0.061	ND	U	0.22	0.059	0.059
	2,4-DICHLOROPHENOL	183	ND	U	0.45	0.069	0.069	ND	U	0.44	0.068	0.068	ND	U	0.43	0.067	0.067
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.34	0.067	0.067	ND	U	0.33	0.066	0.066	ND	U	0.33	0.065	0.065
	2,4-DINITROPHENOL	122	ND	U	0.56	0.079	0.079	ND	U	0.55	0.078	0.078	ND	U	0.54	0.077	0.077
	2,4-DINITROTOLUENE	15.7	ND	U	0.56	0.083	0.083	ND	U	0.55	0.082	0.082	ND	U	0.54	0.08	0.08
	2,6-DINITROTOLUENE	61.1	ND	U	0.56	0.067	0.067	ND	U	0.55	0.066	0.066	ND	U	0.54	0.064	0.064
	2-CHLORONAPHTHALENE	6,260	ND	U	0.28	0.064	0.064	ND	U	0.28	0.063	0.063	ND	U	0.27	0.062	0.062
	2-CHLOROPHENOL	391	ND	U	0.23	0.07	0.07	ND	U	0.22	0.069	0.069	ND	U	0.22	0.068	0.068
	2-METHYLNAPHTHALENE	230	ND	U	0.23	0.067	0.067	ND	U	0.22	0.066	0.066	ND	U	0.22	0.064	0.064
	2-METHYLPHENOL	3,100	ND	U	0.56	0.064	0.064	ND	U	0.55	0.064	0.064	ND	U	0.54	0.062	0.062
	2-NITROANILINE	610	ND	U	0.23	0.054	0.054	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	2-NITROPHENOL	NE	ND	U	0.23	0.062	0.062	ND	U	0.22	0.061	0.061	ND	U	0.22	0.06	0.06
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.28	0.062	0.062	ND	U	0.28	0.061	0.061	ND	U	0.27	0.06	0.06
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.23	0.076	0.076	ND	U	0.22	0.075	0.075	ND	U	0.22	0.073	0.073
	3-NITROANILINE	NE	ND	U	0.23	0.066	0.066	ND	U	0.22	0.065	0.065	ND	U	0.22	0.063	0.063
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.56	0.046	0.046	ND	U	0.55	0.045	0.045	ND	U	0.54	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.23	0.057	0.057	ND	U	0.22	0.056	0.056	ND	U	0.22	0.055	0.055
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.56	0.06	0.06	ND	U	0.55	0.059	0.059	ND	U	0.54	0.057	0.057
	4-CHLOROANILINE	2.4	ND	U	0.56	0.06	0.06	ND	U	0.55	0.059	0.059	ND	U	0.54	0.057	0.057
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.23	0.064	0.064	ND	U	0.22	0.063	0.063	ND	U	0.22	0.062	0.062
	4-NITROANILINE	24	ND	U	0.45	0.054	0.054	ND	U	0.44	0.053	0.053	ND	U	0.43	0.052	0.052
	4-NITROPHENOL	NE	ND	U	0.28	0.069	0.069	ND	U	0.28	0.068	0.068	ND	U	0.27	0.067	0.067
	ACENAPHTHENE	3440	ND	U	0.23	0.054	0.054	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	ACENAPHTHYLENE	NE	ND	U	0.23	0.055	0.055	ND	U	0.22	0.054	0.054	ND	U	0.22	0.053	0.053
	ANTHRACENE	17,200	ND	U	0.23	0.049	0.049	ND	U	0.22	0.048	0.048	ND	U	0.22	0.047	0.047
	BENZENAMINE	85	ND	U	0.23	0.067	0.067	ND	U	0.22	0.066	0.066	ND	U	0.22	0.064	0.064
	BENZO(A)ANTHRACENE	1.48	ND	U	0.23	0.061	0.061	ND	U	0.22	0.06	0.06	ND	U	0.22	0.059	0.059
	BENZO(A)PYRENE	0.148	ND	U	0.23	0.068	0.068	ND	U	0.22	0.067	0.067	ND	U	0.22	0.065	0.065
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.23	0.077	0.077	ND	U	0.22	0.076	0.076	ND	U	0.22	0.075	0.075
	BENZO(GHI)PERYLENE	NE	ND	U	0.23	0.068	0.068	ND	U	0.22	0.067	0.067	ND	U	0.22	0.066	0.066
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.23	0.086	0.086	ND	U	0.22	0.084	0.084	ND	U	0.22	0.082	0.082
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.23	0.076	0.076	ND	U	0.22	0.075	0.075	ND	U	0.22	0.073	0.073
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.23	0.09	0.09	ND	U	0.22	0.089	0.089	ND	U	0.22	0.087	0.087
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.23	0.042	0.042	ND	U	0.22	0.041	0.041	ND	U	0.22	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.56	0.076	0.076	ND	U	0.55	0.075	0.075	ND	U	0.54	0.073	0.073
	BUTYL BENZYL PHTHALATE	260	ND	U	0.23	0.048	0.048	ND	U	0.22	0.047	0.047	ND	U	0.22	0.046	0.046

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-40					FFOR-EXC-40					FFOR-EXC-41				
	SAMPLE NO		FFOR-CF-0043					FFOR-CF-0044					FFOR-CF-0045				
	SAMPLE DATE		18-Aug-14					18-Aug-14					18-Aug-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		10FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.23	0.05	0.05	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	CHRYSENE	148	ND	U	0.23	0.057	0.057	ND	U	0.22	0.056	0.056	ND	U	0.22	0.055	0.055
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.23	0.067	0.067	ND	U	0.22	0.066	0.066	ND	U	0.22	0.065	0.065
	DIBENZOFURAN	78	ND	U	0.23	0.075	0.075	ND	U	0.22	0.074	0.074	ND	U	0.22	0.073	0.073
	DIETHYL PHTHALATE	48,900	ND	U	0.23	0.051	0.051	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	DIMETHYL PHTHALATE	611,000	ND	U	0.23	0.063	0.063	ND	U	0.22	0.062	0.062	ND	U	0.22	0.06	0.06
	DI-N-BUTYL PHTHALATE	6,110	0.086	J	0.56	0.051	0.051	ND	U	0.55	0.05	0.05	ND	U	0.54	0.049	0.049
	DI-N-OCTYL PHTHALATE	610	ND	U	0.45	0.28	0.28	ND	U	0.44	0.28	0.28	ND	U	0.43	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.23	0.05	0.05	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	FLUORENE	2,290	ND	U	0.23	0.066	0.066	ND	U	0.22	0.065	0.065	ND	U	0.22	0.063	0.063
	HEXACHLOROBENZENE	3.04	ND	U	0.23	0.061	0.061	ND	U	0.22	0.061	0.061	ND	U	0.22	0.059	0.059
	HEXACHLOROBUTADIENE	61.1	ND	U	0.23	0.054	0.054	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.23	0.073	0.073	ND	U	0.22	0.072	0.072	ND	U	0.22	0.07	0.07
	HEXACHLOROETHANE	42.8	ND	U	0.23	0.079	0.079	ND	U	0.22	0.078	0.078	ND	U	0.22	0.076	0.076
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.23	0.075	0.075	ND	U	0.22	0.074	0.074	ND	U	0.22	0.072	0.072
	ISOPHORONE	5,120	ND	U	0.56	0.074	0.074	ND	U	0.55	0.073	0.073	ND	U	0.54	0.071	0.071
	NAPHTHALENE	43	ND	U	0.23	0.054	0.054	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	NITROBENZENE	53.5	ND	U	0.56	0.063	0.063	ND	U	0.55	0.062	0.062	ND	U	0.54	0.061	0.061
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.23	0.085	0.085	ND	U	0.22	0.084	0.084	ND	U	0.22	0.082	0.082
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.23	0.075	0.075	ND	U	0.22	0.074	0.074	ND	U	0.22	0.072	0.072
	N-NITROSODIPHENYLAMINE	993	ND	U	0.23	0.066	0.066	ND	U	0.22	0.065	0.065	ND	U	0.22	0.063	0.063
	PENTACHLOROPHENOL	8.94	ND	U	0.45	0.091	0.091	ND	U	0.44	0.09	0.09	ND	U	0.43	0.088	0.088
	PHENANTHRENE	1,830	ND	U	0.23	0.041	0.041	ND	U	0.22	0.04	0.04	ND	U	0.22	0.039	0.039
	PHENOL	18,300	ND	U	0.23	0.066	0.066	ND	U	0.22	0.065	0.065	ND	U	0.22	0.064	0.064
	PYRENE	1,720	ND	U	0.23	0.061	0.061	ND	U	0.22	0.06	0.06	ND	U	0.22	0.059	0.059
	PYRIDINE	78	ND	U	0.56	0.062	0.062	ND	U	0.55	0.062	0.062	ND	U	0.54	0.06	0.06
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-40					FFOR-EXC-40					FFOR-EXC-41				
	SAMPLE NO		FFOR-CF-0043					FFOR-CF-0044					FFOR-CF-0045				
	SAMPLE DATE		18-Aug-14					18-Aug-14					18-Aug-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		10FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1-DICHLOROETHANE	64.5	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1-DICHLOROETHENE	449	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,1-DICHLOROPROPENE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2,4-TRIMETHYLBENZENE	62	0.00121	J	0.00158	0.000788	0.000788	0.00115	J	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2-DIBROMOETHANE	0.588	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2-DICHLOROETHANE	7.89	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,3-DICHLOROBENZENE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	2,2-DICHLOROPROPANE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	2-BUTANONE	37,100	ND	U	0.00788	0.00788	0.00788	ND	U	0.008	0.008	0.008	ND	U	0.00824	0.00824	0.00824
	2-CHLOROTOLUENE	1,560	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	2-HEXANONE	210	ND	U	0.00788	0.00788	0.00788	ND	U	0.008	0.008	0.008	ND	U	0.00824	0.00824	0.00824
	4-CHLOROTOLUENE	1,600	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00788	0.00788	0.00788	ND	U	0.008	0.008	0.008	ND	U	0.00824	0.00824	0.00824
	ACETONE	66,600	0.0154	J-	0.00788	0.00788	0.00788	0.0202	J-	0.008	0.008	0.008	0.00881	J-	0.00824	0.00824	0.00824
	BENZENE	15.4	0.00262	J-	0.00158	0.000788	0.000788	0.0025		0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	BROMOBENZENE	300	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	BROMOCHLOROMETHANE	160	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	BROMODICHLOROMETHANE	5.41	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	BROMOFORM	616	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	BROMOMETHANE	16.5	ND	U	0.00394	0.000788	0.000788	ND	U	0.004	0.0008	0.0008	ND	U	0.00412	0.000824	0.000824
	CARBON DISULFIDE	1,530	ND	U	0.00788	0.00788	0.00788	ND	U	0.008	0.008	0.008	ND	U	0.00824	0.00824	0.00824
	CARBON TETRACHLORIDE	10.8	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CHLOROBENZENE	376	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CHLOROETHANE	29,800	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CHLOROFORM	5.86	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CHLOROMETHANE	275	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	DIBROMOMETHANE	51.6	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	ETHYLBENZENE	68.4	0.00085	J	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-40					FFOR-EXC-40					FFOR-EXC-41				
	SAMPLE NO		FFOR-CF-0043					FFOR-CF-0044					FFOR-CF-0045				
	SAMPLE DATE		18-Aug-14					18-Aug-14					18-Aug-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		10FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	METHYLENE CHLORIDE	409	ND	U	0.00394	0.00158	0.00158	ND	U	0.004	0.0016	0.0016	ND	U	0.00412	0.00165	0.00165
	NAPHTHALENE	43	ND	UJ	0.00158	0.00158	0.00158	ND	UJ	0.0016	0.0016	0.0016	ND	UJ	0.00165	0.00165	0.00165
	N-BUTYLBENZENE	3,900	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	N-PROPYLBENZENE	3,400	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	SEC-BUTYLBENZENE	7,800	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	STYRENE	7,280	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TERT-BUTYLBENZENE	7,800	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TETRACHLOROETHENE	7.02	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TOLUENE	5,270	0.00449	J-	0.00158	0.000788	0.000788	0.00377		0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TRICHLOROETHENE	8.77	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	VINYL ACETATE	2,560	ND	U	0.00788	0.00788	0.00788	ND	U	0.008	0.008	0.008	ND	U	0.00824	0.00824	0.00824
	VINYL CHLORIDE	0.728	ND	U	0.00158	0.000788	0.000788	ND	U	0.0016	0.0008	0.0008	ND	U	0.00165	0.000824	0.000824
	XYLENES	814	0.00425		0.00158	0.00158	0.00158	0.00305		0.0016	0.0016	0.0016	ND	U	0.00165	0.00165	0.00165

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-42					FFOR-EXC-43					FFOR-EXC-44				
	SAMPLE NO		FFOR-CF-0046					FFOR-CF-0047					FFOR-CF-0048				
	SAMPLE DATE		19-Aug-14					19-Aug-14					20-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.3		0.27	0.12	0.12	26		0.27	0.12	0.12	17		0.54	0.23	0.23
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	5.8	5.8	63		11	6.1	6.1	**1,200**		110	59	59
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.8	0.49	0.49	380		40	5.2	5.2	280		34	4.4	4.4
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	53	53	53	ND	U	55	55	55	ND	U	530	530	530
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.21	0.061	0.061	ND	U	0.44	0.13	0.13	ND	U	0.21	0.06	0.06
	1,2-DICHLOROBENZENE	2,310	ND	U	0.21	0.041	0.041	ND	U	0.44	0.085	0.085	ND	U	0.21	0.041	0.041
	1,3-DICHLOROBENZENE	NE	ND	U	0.21	0.06	0.06	ND	U	0.44	0.12	0.12	ND	U	0.21	0.059	0.059
	1,4-DICHLOROBENZENE	31.7	ND	U	0.21	0.066	0.066	ND	U	0.44	0.14	0.14	ND	U	0.21	0.065	0.065
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.21	0.047	0.047	ND	U	0.44	0.097	0.097	ND	U	0.21	0.046	0.046
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.21	0.058	0.058	ND	U	0.44	0.12	0.12	ND	U	0.21	0.057	0.057
	2,4-DICHLOROPHENOL	183	ND	U	0.42	0.065	0.065	ND	U	0.87	0.13	0.13	ND	U	0.42	0.064	0.064
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.32	0.063	0.063	ND	U	0.65	0.13	0.13	ND	U	0.31	0.062	0.062
	2,4-DINITROPHENOL	122	ND	U	0.53	0.075	0.075	ND	U	1.1	0.15	0.15	ND	U	0.52	0.074	0.074
	2,4-DINITROTOLUENE	15.7	ND	U	0.53	0.078	0.078	ND	U	1.1	0.16	0.16	ND	U	0.52	0.077	0.077
	2,6-DINITROTOLUENE	61.1	ND	U	0.53	0.063	0.063	ND	U	1.1	0.13	0.13	ND	U	0.52	0.062	0.062
	2-CHLORONAPHTHALENE	6,260	ND	U	0.26	0.061	0.061	ND	U	0.54	0.12	0.12	ND	U	0.26	0.06	0.06
	2-CHLOROPHENOL	391	ND	U	0.21	0.066	0.066	ND	U	0.44	0.14	0.14	ND	U	0.21	0.065	0.065
	2-METHYLNAPHTHALENE	230	ND	U	0.21	0.063	0.063	0.41	J	0.44	0.13	0.13	ND	U	0.21	0.062	0.062
	2-METHYLPHENOL	3,100	ND	U	0.53	0.061	0.061	ND	U	1.1	0.12	0.12	ND	U	0.52	0.06	0.06
	2-NITROANILINE	610	ND	U	0.21	0.051	0.051	ND	U	0.44	0.11	0.11	ND	U	0.21	0.05	0.05
	2-NITROPHENOL	NE	ND	U	0.21	0.058	0.058	ND	U	0.44	0.12	0.12	ND	U	0.21	0.057	0.057
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.26	0.059	0.059	ND	U	0.54	0.12	0.12	ND	U	0.26	0.058	0.058
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.21	0.071	0.071	ND	U	0.44	0.15	0.15	ND	U	0.21	0.07	0.07
	3-NITROANILINE	NE	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	U	0.21	0.061	0.061
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.53	0.043	0.043	ND	U	1.1	0.089	0.089	ND	U	0.52	0.043	0.043
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.21	0.053	0.053	ND	U	0.44	0.11	0.11	ND	U	0.21	0.053	0.053
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.53	0.056	0.056	ND	U	1.1	0.12	0.12	ND	U	0.52	0.055	0.055
	4-CHLOROANILINE	2.4	ND	U	0.53	0.056	0.056	ND	U	1.1	0.12	0.12	ND	U	0.52	0.055	0.055
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.21	0.06	0.06	ND	U	0.44	0.12	0.12	ND	U	0.21	0.059	0.059
	4-NITROANILINE	24	ND	U	0.42	0.051	0.051	ND	U	0.87	0.1	0.1	ND	U	0.42	0.05	0.05
	4-NITROPHENOL	NE	ND	U	0.26	0.065	0.065	ND	U	0.54	0.13	0.13	ND	U	0.26	0.064	0.064
	ACENAPHTHENE	3440	ND	U	0.21	0.051	0.051	ND	U	0.44	0.1	0.1	ND	U	0.21	0.05	0.05
	ACENAPHTHYLENE	NE	ND	U	0.21	0.052	0.052	ND	U	0.44	0.11	0.11	ND	U	0.21	0.051	0.051
	ANTHRACENE	17,200	ND	U	0.21	0.046	0.046	ND	U	0.44	0.094	0.094	ND	U	0.21	0.045	0.045
	BENZENAMINE	85	ND	U	0.21	0.063	0.063	ND	U	0.44	0.13	0.13	ND	U	0.21	0.062	0.062
	BENZO(A)ANTHRACENE	1.48	ND	U	0.21	0.057	0.057	ND	U	0.44	0.12	0.12	0.2	J	0.21	0.057	0.057
	BENZO(A)PYRENE	0.148	0.087	J	0.21	0.064	0.064	ND	U	0.44	0.13	0.13	**0.16**	J	0.21	0.063	0.063
	BENZO(B)FLUORANTHENE	1.48	0.13	J	0.21	0.073	0.073	ND	U	0.44	0.15	0.15	0.39		0.21	0.072	0.072
	BENZO(GHI)PERYLENE	NE	ND	U	0.21	0.064	0.064	ND	U	0.44	0.13	0.13	0.12	J	0.21	0.063	0.063
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.21	0.08	0.08	ND	U	0.44	0.17	0.17	ND	U	0.21	0.079	0.079
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.21	0.071	0.071	ND	U	0.44	0.15	0.15	ND	U	0.21	0.07	0.07
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.21	0.085	0.085	ND	U	0.44	0.17	0.17	ND	U	0.21	0.084	0.084
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.21	0.039	0.039	ND	U	0.44	0.081	0.081	ND	U	0.21	0.039	0.039
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	0.53	0.071	0.071	ND	UJ	1.1	0.15	0.15	ND	UJ	0.52	0.07	0.07
	BUTYL BENZYL PHTHALATE	260	ND	U	0.21	0.045	0.045	ND	U	0.44	0.093	0.093	ND	U	0.21	0.044	0.044

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-42					FFOR-EXC-43					FFOR-EXC-44				
	SAMPLE NO		FFOR-CF-0046					FFOR-CF-0047					FFOR-CF-0048				
	SAMPLE DATE		19-Aug-14					19-Aug-14					20-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.21	0.047	0.047	ND	U	0.44	0.098	0.098	ND	U	0.21	0.047	0.047
	CHRYSENE	148	0.085	J	0.21	0.054	0.054	ND	U	0.44	0.11	0.11	0.23		0.21	0.053	0.053
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.21	0.063	0.063	ND	U	0.44	0.13	0.13	ND	U	0.21	0.062	0.062
	DIBENZOFURAN	78	ND	U	0.21	0.071	0.071	ND	U	0.44	0.15	0.15	0.13	J	0.21	0.07	0.07
	DIETHYL PHTHALATE	48,900	ND	U	0.21	0.047	0.047	ND	U	0.44	0.098	0.098	ND	U	0.21	0.047	0.047
	DIMETHYL PHTHALATE	611,000	ND	U	0.21	0.059	0.059	ND	U	0.44	0.12	0.12	ND	U	0.21	0.058	0.058
	DI-N-BUTYL PHTHALATE	6,110	0.056	J	0.53	0.048	0.048	ND	U	1.1	0.098	0.098	ND	U	0.52	0.047	0.047
	DI-N-OCTYL PHTHALATE	610	ND	U	0.42	0.27	0.27	ND	U	0.87	0.55	0.55	ND	U	0.42	0.26	0.26
	FLUORANTHENE	2,290	0.16	J	0.21	0.047	0.047	ND	U	0.44	0.098	0.098	0.23		0.21	0.047	0.047
	FLUORENE	2,290	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	U	0.21	0.061	0.061
	HEXACHLOROBENZENE	3.04	ND	U	0.21	0.058	0.058	ND	U	0.44	0.12	0.12	ND	U	0.21	0.057	0.057
	HEXACHLOROBUTADIENE	61.1	ND	U	0.21	0.051	0.051	ND	U	0.44	0.1	0.1	ND	U	0.21	0.05	0.05
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.21	0.068	0.068	ND	U	0.44	0.14	0.14	ND	U	0.21	0.068	0.068
	HEXACHLOROETHANE	42.8	ND	U	0.21	0.074	0.074	ND	U	0.44	0.15	0.15	ND	U	0.21	0.073	0.073
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.21	0.07	0.07	ND	U	0.44	0.14	0.14	0.13	J	0.21	0.069	0.069
	ISOPHORONE	5,120	ND	U	0.53	0.069	0.069	ND	U	1.1	0.14	0.14	ND	U	0.52	0.069	0.069
	NAPHTHALENE	43	ND	U	0.21	0.05	0.05	0.35	J	0.44	0.1	0.1	0.61		0.21	0.05	0.05
	NITROBENZENE	53.5	ND	U	0.53	0.059	0.059	ND	U	1.1	0.12	0.12	ND	U	0.52	0.058	0.058
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.21	0.08	0.08	ND	U	0.44	0.16	0.16	ND	U	0.21	0.079	0.079
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.21	0.07	0.07	ND	U	0.44	0.14	0.14	ND	UJ	0.21	0.069	0.069
	N-NITROSODIPHENYLAMINE	993	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	U	0.21	0.061	0.061
	PENTACHLOROPHENOL	8.94	ND	U	0.42	0.086	0.086	ND	U	0.87	0.18	0.18	ND	U	0.42	0.085	0.085
	PHENANTHRENE	1,830	0.045	J	0.21	0.038	0.038	ND	U	0.44	0.079	0.079	ND	U	0.21	0.038	0.038
	PHENOL	18,300	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	U	0.21	0.061	0.061
	PYRENE	1,720	0.13	J	0.21	0.057	0.057	ND	U	0.44	0.12	0.12	0.35		0.21	0.057	0.057
	PYRIDINE	78	ND	U	0.53	0.059	0.059	ND	U	1.1	0.12	0.12	ND	U	0.52	0.058	0.058
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-42					FFOR-EXC-43					FFOR-EXC-44				
	SAMPLE NO		FFOR-CF-0046					FFOR-CF-0047					FFOR-CF-0048				
	SAMPLE DATE		19-Aug-14					19-Aug-14					20-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.048	0.048	ND	U	0.34	0.041	0.041
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.04	0.04	ND	U	0.34	0.034	0.034
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.066	0.066	ND	U	0.34	0.057	0.057
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.048	0.048	ND	U	0.34	0.041	0.041
	1,1-DICHLOROETHANE	64.5	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.027	0.027	ND	U	0.34	0.023	0.023
	1,1-DICHLOROETHENE	449	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.032	0.032	ND	U	0.34	0.027	0.027
	1,1-DICHLOROPROPENE	NE	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.062	0.062	ND	U	0.68	0.053	0.053
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.044	0.044	ND	U	0.68	0.038	0.038
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.06	0.06	ND	U	0.68	0.052	0.052
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.044	0.044	ND	U	0.34	0.038	0.038
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0014	0.000702	0.000702	4.2		0.4	0.048	0.048	0.19	J	0.34	0.041	0.041
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.054	0.054	ND	U	0.68	0.047	0.047
	1,2-DIBROMOETHANE	0.588	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.045	0.045	ND	U	0.34	0.039	0.039
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.047	0.047	ND	U	0.34	0.04	0.04
	1,2-DICHLOROETHANE	7.89	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.065	0.065	ND	U	0.34	0.056	0.056
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.035	0.035	ND	U	0.34	0.03	0.03
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0014	0.000702	0.000702	1.5		0.4	0.042	0.042	ND	U	0.34	0.036	0.036
	1,3-DICHLOROBENZENE	NE	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.048	0.048	ND	U	0.34	0.041	0.041
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.074	0.074	ND	U	0.34	0.064	0.064
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.047	0.047	ND	U	0.34	0.041	0.041
	2,2-DICHLOROPROPANE	NE	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.043	0.043	ND	U	0.68	0.037	0.037
	2-BUTANONE	37,100	ND	U	0.00702	0.00702	0.00702	0.87	J	4	0.18	0.18	ND	U	3.4	0.16	0.16
	2-CHLOROTOLUENE	1,560	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.035	0.035	ND	U	0.34	0.03	0.03
	2-HEXANONE	210	ND	U	0.00702	0.00702	0.00702	ND	U	4	0.19	0.19	ND	U	3.4	0.16	0.16
	4-CHLOROTOLUENE	1,600	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.11	0.11	ND	U	0.34	0.099	0.099
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00702	0.00702	0.00702	ND	U	4	0.15	0.15	ND	U	3.4	0.13	0.13
	ACETONE	66,600	0.0265	J+	0.00702	0.00702	0.00702	0.43	J+	6	0.39	0.39	ND	U	5.1	0.33	0.33
	BENZENE	15.4	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.044	0.044	ND	U	0.34	0.037	0.037
	BROMOBENZENE	300	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.062	0.062	ND	U	0.34	0.053	0.053
	BROMOCHLOROMETHANE	160	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.18	0.18	ND	U	0.34	0.16	0.16
	BROMODICHLOROMETHANE	5.41	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.051	0.051	ND	U	0.34	0.044	0.044
	BROMOFORM	616	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.037	0.037	ND	U	0.34	0.032	0.032
	BROMOMETHANE	16.5	ND	U	0.00351	0.000702	0.000702	ND	U	1.2	0.057	0.057	ND	UJ	1	0.049	0.049
	CARBON DISULFIDE	1,530	ND	U	0.00702	0.00702	0.00702	ND	U	4	0.11	0.11	ND	U	3.4	0.09	0.09
	CARBON TETRACHLORIDE	10.8	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.056	0.056	ND	U	0.34	0.048	0.048
	CHLOROBENZENE	376	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.044	0.044	ND	U	0.34	0.037	0.037
	CHLOROETHANE	29,800	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.066	0.066	ND	U	0.68	0.057	0.057
	CHLOROFORM	5.86	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.14	0.14	ND	U	0.34	0.12	0.12
	CHLOROMETHANE	275	ND	U	0.0014	0.000702	0.000702	ND	U	1.2	0.037	0.037	ND	U	1	0.031	0.031
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.036	0.036	ND	U	0.34	0.031	0.031
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.049	0.049	ND	U	0.34	0.042	0.042
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.039	0.039	ND	U	0.34	0.033	0.033
	DIBROMOMETHANE	51.6	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.046	0.046	ND	U	0.34	0.039	0.039
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.096	0.096	ND	U	0.34	0.083	0.083
	ETHYLBENZENE	68.4	ND	U	0.0014	0.000702	0.000702	0.63		0.4	0.042	0.042	ND	U	0.34	0.036	0.036
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0014	0.000702	0.000702	ND	U	0.79	0.058	0.058	ND	U	0.68	0.05	0.05

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-42					FFOR-EXC-43					FFOR-EXC-44				
	SAMPLE NO	FFOR-CF-0046					FFOR-CF-0047					FFOR-CF-0048				
	SAMPLE DATE	19-Aug-14					19-Aug-14					20-Aug-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0014	0.000702	0.000702	0.27	J	0.4	0.031	0.031	ND	U	0.34	0.027	0.027
	METHYL TERT-BUTYL ETHER	901	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.15	0.15	ND	U	0.34	0.13	0.13
	METHYLENE CHLORIDE	409	ND	U	0.00351	0.0014	0.0014	ND	U	1.2	0.037	0.037	0.13	J	1	0.032	0.032
	NAPHTHALENE	43	ND	U	0.0014	0.0014	0.0014	0.41	J	0.79	0.033	0.033	1.1		0.68	0.028	0.028
	N-BUTYLBENZENE	3,900	ND	U	0.0014	0.000702	0.000702	1	J	1.2	0.035	0.035	0.39	J	1	0.03	0.03
	N-PROPYLBENZENE	3,400	ND	U	0.0014	0.000702	0.000702	0.52		0.4	0.04	0.04	ND	U	0.34	0.034	0.034
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0014	0.000702	0.000702	0.44		0.4	0.036	0.036	ND	U	0.34	0.031	0.031
	SEC-BUTYLBENZENE	7,800	ND	U	0.0014	0.000702	0.000702	0.38	J	0.4	0.039	0.039	ND	U	0.34	0.033	0.033
	STYRENE	7,280	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.031	0.031	ND	U	0.34	0.027	0.027
	TERT-BUTYLBENZENE	7,800	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.044	0.044	ND	U	0.34	0.038	0.038
	TETRACHLOROETHENE	7.02	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.049	0.049	ND	U	0.34	0.042	0.042
	TOLUENE	5,270	ND	U	0.0014	0.000702	0.000702	0.071	J	0.4	0.044	0.044	ND	U	0.34	0.038	0.038
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.044	0.044	ND	U	0.34	0.038	0.038
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.055	0.055	ND	U	0.34	0.047	0.047
	TRICHLOROETHENE	8.77	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.055	0.055	ND	U	0.34	0.047	0.047
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.041	0.041	ND	U	0.34	0.036	0.036
	VINYL ACETATE	2,560	ND	U	0.00702	0.00702	0.00702	ND	U	4	4	4	ND	U	3.4	3.4	3.4
	VINYL CHLORIDE	0.728	ND	U	0.0014	0.000702	0.000702	ND	U	0.4	0.033	0.033	ND	U	0.34	0.028	0.028
	XYLENES	814	ND	U	0.0014	0.0014	0.0014	6.6		0.79	0.12	0.12	ND	U	0.68	0.1	0.1

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be meas

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-45					FFOR-EXC-46					FFOR-EXC-47				
	SAMPLE NO		FFOR-CF-0049					FFOR-CF-0050					FFOR-CF-0051				
	SAMPLE DATE		20-Aug-14					20-Aug-14					21-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	71		0.54	0.23	0.23	59		0.51	0.22	0.22	3.1		0.29	0.13	0.13
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	**9,700**		110	59	59	**4,500**		100	57	57	**11,000**		110	63	63
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	**1,300**	J+	72	9.3	9.3	**1,800**	J+	66	8.6	8.6	**2,300**		70	9.1	9.1
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	530	530	530	ND	U	510	510	510	ND	U	570	570	570
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	2.2	0.62	0.62	ND	U	2.1	0.6	0.6	ND	U	2.2	0.65	0.65
	1,2-DICHLOROBENZENE	2,310	ND	U	2.2	0.42	0.42	ND	U	2.1	0.4	0.4	ND	U	2.2	0.44	0.44
	1,3-DICHLOROBENZENE	NE	ND	U	2.2	0.61	0.61	ND	U	2.1	0.59	0.59	ND	U	2.2	0.64	0.64
	1,4-DICHLOROBENZENE	31.7	ND	U	2.2	0.67	0.67	ND	U	2.1	0.64	0.64	ND	U	2.2	0.7	0.7
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	2.2	0.48	0.48	ND	U	2.1	0.46	0.46	ND	U	2.2	0.5	0.5
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	2.2	0.59	0.59	ND	U	2.1	0.57	0.57	ND	U	2.2	0.61	0.61
	2,4-DICHLOROPHENOL	183	ND	U	4.3	0.67	0.67	ND	U	4.1	0.64	0.64	ND	U	4.5	0.69	0.69
	2,4-DIMETHYLPHENOL	1,220	ND	U	3.2	0.64	0.64	ND	U	3.1	0.62	0.62	ND	U	3.4	0.67	0.67
	2,4-DINITROPHENOL	122	ND	U	5.4	0.76	0.76	ND	U	5.2	0.73	0.73	ND	U	5.6	0.79	0.79
	2,4-DINITROTOLUENE	15.7	ND	U	5.4	0.8	0.8	ND	U	5.2	0.76	0.76	ND	U	5.6	0.83	0.83
	2,6-DINITROTOLUENE	61.1	ND	U	5.4	0.64	0.64	ND	U	5.2	0.62	0.62	ND	U	5.6	0.67	0.67
	2-CHLORONAPHTHALENE	6,260	ND	U	2.7	0.62	0.62	ND	U	2.6	0.59	0.59	ND	U	2.8	0.64	0.64
	2-CHLOROPHENOL	391	ND	U	2.2	0.67	0.67	ND	U	2.1	0.65	0.65	ND	U	2.2	0.7	0.7
	2-METHYLNAPHTHALENE	230	16		2.2	0.64	0.64	14		2.1	0.62	0.62	27		2.2	0.67	0.67
	2-METHYLPHENOL	3,100	ND	U	5.4	0.62	0.62	ND	U	5.2	0.59	0.59	ND	U	5.6	0.64	0.64
	2-NITROANILINE	610	ND	U	2.2	0.52	0.52	ND	U	2.1	0.5	0.5	ND	U	2.2	0.54	0.54
	2-NITROPHENOL	NE	ND	U	2.2	0.59	0.59	ND	U	2.1	0.57	0.57	ND	U	2.2	0.62	0.62
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	2.7	0.6	0.6	ND	U	2.6	0.57	0.57	ND	U	2.8	0.62	0.62
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	2.2	0.73	0.73	ND	U	2.1	0.7	0.7	ND	U	2.2	0.76	0.76
	3-NITROANILINE	NE	ND	U	2.2	0.63	0.63	ND	U	2.1	0.6	0.6	ND	U	2.2	0.66	0.66
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	5.4	0.44	0.44	ND	U	5.2	0.42	0.42	ND	U	5.6	0.46	0.46
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	2.2	0.54	0.54	ND	U	2.1	0.52	0.52	ND	U	2.2	0.57	0.57
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	5.4	0.57	0.57	ND	U	5.2	0.55	0.55	ND	U	5.6	0.59	0.59
	4-CHLOROANILINE	2.4	ND	U	5.4	0.57	0.57	ND	U	5.2	0.55	0.55	ND	U	5.6	0.59	0.59
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	2.2	0.61	0.61	ND	U	2.1	0.59	0.59	ND	U	2.2	0.64	0.64
	4-NITROANILINE	24	ND	U	4.3	0.52	0.52	ND	U	4.1	0.5	0.5	ND	U	4.5	0.54	0.54
	4-NITROPHENOL	NE	ND	U	2.7	0.67	0.67	ND	U	2.6	0.64	0.64	ND	U	2.8	0.69	0.69
	ACENAPHTHENE	3440	ND	U	2.2	0.52	0.52	ND	U	2.1	0.5	0.5	ND	U	2.2	0.54	0.54
	ACENAPHTHYLENE	NE	ND	U	2.2	0.53	0.53	ND	U	2.1	0.51	0.51	ND	U	2.2	0.55	0.55
	ANTHRACENE	17,200	ND	U	2.2	0.47	0.47	ND	U	2.1	0.45	0.45	ND	U	2.2	0.49	0.49
	BENZENAMINE	85	ND	U	2.2	0.64	0.64	ND	U	2.1	0.61	0.61	ND	U	2.2	0.66	0.66
	BENZO(A)ANTHRACENE	1.48	ND	U	2.2	0.59	0.59	ND	U	2.1	0.56	0.56	ND	U	2.2	0.61	0.61
	BENZO(A)PYRENE	0.148	ND	U	2.2	0.65	0.65	ND	U	2.1	0.62	0.62	ND	U	2.2	0.68	0.68
	BENZO(B)FLUORANTHENE	1.48	ND	U	2.2	0.74	0.74	ND	U	2.1	0.71	0.71	ND	U	2.2	0.77	0.77
	BENZO(GHI)PERYLENE	NE	ND	U	2.2	0.66	0.66	ND	U	2.1	0.63	0.63	ND	U	2.2	0.68	0.68
	BENZO(K)FLUORANTHENE	14.8	ND	U	2.2	0.82	0.82	ND	U	2.1	0.79	0.79	ND	U	2.2	0.85	0.85
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	2.2	0.73	0.73	ND	U	2.1	0.7	0.7	ND	U	2.2	0.76	0.76
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	2.2	0.87	0.87	ND	U	2.1	0.83	0.83	ND	U	2.2	0.9	0.9
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	2.2	0.4	0.4	ND	U	2.1	0.39	0.39	ND	U	2.2	0.42	0.42
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	5.4	0.73	0.73	ND	UJ	5.2	0.7	0.7	ND	UJ	5.6	0.76	0.76
	BUTYL BENZYL PHTHALATE	260	ND	U	2.2	0.46	0.46	ND	U	2.1	0.44	0.44	ND	U	2.2	0.48	0.48

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-45					FFOR-EXC-46					FFOR-EXC-47				
	SAMPLE NO		FFOR-CF-0049					FFOR-CF-0050					FFOR-CF-0051				
	SAMPLE DATE		20-Aug-14					20-Aug-14					21-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	2.2	0.49	0.49	ND	U	2.1	0.47	0.47	ND	U	2.2	0.5	0.5
	CHRYSENE	148	ND	U	2.2	0.55	0.55	ND	U	2.1	0.53	0.53	ND	U	2.2	0.57	0.57
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	2.2	0.64	0.64	ND	U	2.1	0.62	0.62	ND	U	2.2	0.67	0.67
	DIBENZOFURAN	78	ND	U	2.2	0.72	0.72	ND	U	2.1	0.7	0.7	1.1	J	2.2	0.75	0.75
	DIETHYL PHTHALATE	48,900	ND	U	2.2	0.49	0.49	ND	U	2.1	0.47	0.47	ND	U	2.2	0.5	0.5
	DIMETHYL PHTHALATE	611,000	ND	U	2.2	0.6	0.6	ND	U	2.1	0.58	0.58	ND	U	2.2	0.62	0.62
	DI-N-BUTYL PHTHALATE	6,110	ND	U	5.4	0.49	0.49	ND	U	5.2	0.47	0.47	ND	U	5.6	0.51	0.51
	DI-N-OCTYL PHTHALATE	610	ND	U	4.3	2.7	2.7	ND	U	4.1	2.6	2.6	ND	U	4.5	2.8	2.8
	FLUORANTHENE	2,290	ND	U	2.2	0.48	0.48	ND	U	2.1	0.46	0.46	ND	U	2.2	0.5	0.5
	FLUORENE	2,290	ND	U	2.2	0.63	0.63	ND	U	2.1	0.61	0.61	ND	U	2.2	0.66	0.66
	HEXACHLOROBENZENE	3.04	ND	U	2.2	0.59	0.59	ND	U	2.1	0.57	0.57	ND	U	2.2	0.61	0.61
	HEXACHLOROBUTADIENE	61.1	ND	U	2.2	0.52	0.52	ND	U	2.1	0.5	0.5	ND	U	2.2	0.54	0.54
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	2.2	0.7	0.7	ND	U	2.1	0.67	0.67	ND	U	2.2	0.73	0.73
	HEXACHLOROETHANE	42.8	ND	U	2.2	0.76	0.76	ND	U	2.1	0.73	0.73	ND	U	2.2	0.79	0.79
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	2.2	0.72	0.72	ND	U	2.1	0.69	0.69	ND	U	2.2	0.74	0.74
	ISOPHORONE	5,120	ND	U	5.4	0.71	0.71	ND	U	5.2	0.68	0.68	ND	U	5.6	0.74	0.74
	NAPHTHALENE	43	8.9		2.2	0.51	0.51	7.8		2.1	0.49	0.49	14		2.2	0.53	0.53
	NITROBENZENE	53.5	ND	U	5.4	0.6	0.6	ND	U	5.2	0.58	0.58	ND	U	5.6	0.63	0.63
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	2.2	0.82	0.82	ND	U	2.1	0.78	0.78	ND	U	2.2	0.85	0.85
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	2.2	0.72	0.72	ND	U	2.1	0.69	0.69	ND	U	2.2	0.75	0.75
	N-NITROSODIPHENYLAMINE	993	ND	U	2.2	0.63	0.63	ND	U	2.1	0.61	0.61	ND	U	2.2	0.66	0.66
	PENTACHLOROPHENOL	8.94	ND	U	4.3	0.88	0.88	ND	U	4.1	0.84	0.84	ND	U	4.5	0.91	0.91
	PHENANTHRENE	1,830	ND	U	2.2	0.39	0.39	ND	U	2.1	0.38	0.38	ND	U	2.2	0.41	0.41
	PHENOL	18,300	ND	U	2.2	0.63	0.63	ND	U	2.1	0.61	0.61	ND	U	2.2	0.66	0.66
	PYRENE	1,720	ND	U	2.2	0.59	0.59	ND	U	2.1	0.56	0.56	ND	U	2.2	0.61	0.61
	PYRIDINE	78	ND	U	5.4	0.6	0.6	ND	U	5.2	0.57	0.57	ND	U	5.6	0.62	0.62
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-45					FFOR-EXC-46					FFOR-EXC-47				
	SAMPLE NO		FFOR-CF-0049					FFOR-CF-0050					FFOR-CF-0051				
	SAMPLE DATE		20-Aug-14					20-Aug-14					21-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.18	0.022	0.022	ND	U	0.33	0.079	0.079	ND	U	0.7	0.084	0.084
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.18	0.018	0.018	ND	U	0.33	0.067	0.067	ND	U	0.7	0.07	0.07
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.72	0.12	0.12	ND	U	0.33	0.11	0.11	ND	U	0.7	0.12	0.12
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.18	0.022	0.022	ND	U	0.33	0.08	0.08	ND	U	0.7	0.084	0.084
	1,1-DICHLOROETHANE	64.5	ND	U	0.18	0.012	0.012	ND	U	0.33	0.045	0.045	ND	U	0.7	0.048	0.048
	1,1-DICHLOROETHENE	449	ND	U	0.18	0.014	0.014	ND	U	0.33	0.053	0.053	ND	U	0.7	0.056	0.056
	1,1-DICHLOROPROPENE	NE	ND	U	0.36	0.028	0.028	ND	U	0.66	0.1	0.1	ND	U	1.4	0.11	0.11
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	1.4	0.08	0.08	ND	U	0.66	0.074	0.074	ND	U	1.4	0.078	0.078
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	1.4	0.11	0.11	ND	U	0.66	0.1	0.1	ND	U	1.4	0.11	0.11
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.72	0.079	0.079	ND	U	0.33	0.073	0.073	ND	U	0.7	0.077	0.077
	1,2,4-TRIMETHYLBENZENE	62	2.8		0.72	0.087	0.087	20	J+	0.33	0.08	0.08	46	J+	0.7	0.085	0.085
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	1.4	0.098	0.098	ND	U	0.66	0.09	0.09	ND	U	1.4	0.095	0.095
	1,2-DIBROMOETHANE	0.588	ND	U	0.18	0.02	0.02	ND	U	0.33	0.076	0.076	ND	U	0.7	0.08	0.08
	1,2-DICHLOROBENZENE	2,310	ND	U	0.72	0.085	0.085	ND	U	0.33	0.078	0.078	ND	U	0.7	0.083	0.083
	1,2-DICHLOROETHANE	7.89	ND	U	0.18	0.03	0.03	ND	U	0.33	0.11	0.11	ND	U	0.7	0.12	0.12
	1,2-DICHLOROPROPANE	15.2	ND	U	0.18	0.016	0.016	ND	U	0.33	0.059	0.059	ND	U	0.7	0.062	0.062
	1,3,5-TRIMETHYLBENZENE	780	6.2		0.72	0.076	0.076	6.6	J+	0.33	0.07	0.07	12	J+	0.7	0.074	0.074
	1,3-DICHLOROBENZENE	NE	ND	U	0.72	0.086	0.086	ND	U	0.33	0.08	0.08	ND	U	0.7	0.084	0.084
	1,3-DICHLOROPROPANE	1,600	ND	U	0.18	0.034	0.034	ND	U	0.33	0.12	0.12	ND	U	0.7	0.13	0.13
	1,4-DICHLOROBENZENE	31.7	ND	U	0.72	0.085	0.085	ND	U	0.33	0.079	0.079	ND	U	0.7	0.083	0.083
	2,2-DICHLOROPROPANE	NE	ND	U	0.36	0.019	0.019	ND	U	0.66	0.072	0.072	ND	U	1.4	0.075	0.075
	2-BUTANONE	37,100	ND	U	1.8	0.082	0.082	1.3	J+	3.3	0.3	0.3	1.5	J+	7	0.32	0.32
	2-CHLOROTOLUENE	1,560	ND	U	0.72	0.063	0.063	ND	U	0.33	0.059	0.059	ND	U	0.7	0.062	0.062
	2-HEXANONE	210	ND	U	1.8	0.086	0.086	ND	U	3.3	0.32	0.32	ND	U	7	0.33	0.33
	4-CHLOROTOLUENE	1,600	ND	U	0.72	0.21	0.21	ND	U	0.33	0.19	0.19	ND	U	0.7	0.2	0.2
	4-METHYL-2-PENTANONE	5821.1142	ND	U	1.8	0.07	0.07	ND	U	3.3	0.26	0.26	ND	U	7	0.27	0.27
	ACETONE	66,600	ND	U	2.7	0.18	0.18	3	J+	5	0.65	0.65	3	J+	10	0.68	0.68
	BENZENE	15.4	ND	U	0.18	0.02	0.02	ND	U	0.33	0.073	0.073	ND	U	0.7	0.076	0.076
	BROMOBENZENE	300	ND	U	0.72	0.11	0.11	ND	U	0.33	0.1	0.1	ND	U	0.7	0.11	0.11
	BROMOCHLOROMETHANE	160	ND	U	0.18	0.082	0.082	ND	U	0.33	0.3	0.3	ND	U	0.7	0.32	0.32
	BROMODICHLOROMETHANE	5.41	ND	U	0.18	0.023	0.023	ND	U	0.33	0.085	0.085	ND	U	0.7	0.09	0.09
	BROMOFORM	616	ND	U	0.72	0.067	0.067	ND	U	0.33	0.062	0.062	ND	U	0.7	0.065	0.065
	BROMOMETHANE	16.5	ND	UJ	0.54	0.026	0.026	ND	UJ	0.99	0.095	0.095	ND	UJ	2.1	0.1	0.1
	CARBON DISULFIDE	1,530	ND	U	1.8	0.047	0.047	ND	U	3.3	0.18	0.18	ND	U	7	0.18	0.18
	CARBON TETRACHLORIDE	10.8	ND	U	0.18	0.025	0.025	ND	U	0.33	0.093	0.093	ND	U	0.7	0.098	0.098
	CHLOROBENZENE	376	ND	U	0.18	0.02	0.02	ND	U	0.33	0.073	0.073	ND	U	0.7	0.077	0.077
	CHLOROETHANE	29,800	ND	U	0.36	0.03	0.03	ND	U	0.66	0.11	0.11	ND	U	1.4	0.12	0.12
	CHLOROFORM	5.86	ND	U	0.18	0.062	0.062	ND	U	0.33	0.23	0.23	ND	U	0.7	0.24	0.24
	CHLOROMETHANE	275	ND	U	0.54	0.016	0.016	ND	U	0.99	0.061	0.061	ND	U	2.1	0.064	0.064
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.18	0.016	0.016	ND	U	0.33	0.061	0.061	ND	U	0.7	0.064	0.064
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.18	0.022	0.022	ND	U	0.33	0.082	0.082	ND	U	0.7	0.087	0.087
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.18	0.018	0.018	ND	U	0.33	0.065	0.065	ND	U	0.7	0.068	0.068
	DIBROMOMETHANE	51.6	ND	U	0.18	0.021	0.021	ND	U	0.33	0.076	0.076	ND	U	0.7	0.08	0.08
	DICHLORODIFLUOROMETHANE	168	ND	U	0.18	0.043	0.043	ND	U	0.33	0.16	0.16	ND	U	0.7	0.17	0.17
	ETHYLBENZENE	68.4	ND	U	0.18	0.019	0.019	0.47	J+	0.33	0.071	0.071	17	J+	0.7	0.074	0.074
	HEXACHLOROBUTADIENE	61.1	ND	U	1.4	0.11	0.11	ND	U	0.66	0.097	0.097	ND	U	1.4	0.1	0.1

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-45					FFOR-EXC-46					FFOR-EXC-47				
	SAMPLE NO		FFOR-CF-0049					FFOR-CF-0050					FFOR-CF-0051				
	SAMPLE DATE		20-Aug-14					20-Aug-14					21-Aug-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method	ISOPROPYLBENZENE	2,430	ND	U	0.72	0.057	0.057	ND	U	0.33	0.053	0.053	5.8	J+	0.7	0.055	0.055
8260B	METHYL TERT-BUTYL ETHER	901	ND	U	0.18	0.067	0.067	ND	U	0.33	0.25	0.25	ND	U	0.7	0.26	0.26
	METHYLENE CHLORIDE	409	ND	U	0.54	0.017	0.017	ND	U	0.99	0.062	0.062	ND	U	2.1	0.066	0.066
	NAPHTHALENE	43	16		1.4	0.06	0.06	15	J+	0.66	0.055	0.055	28	J+	1.4	0.058	0.058
	N-BUTYLBENZENE	3,900	ND	U	2.2	0.063	0.063	12	J+	0.99	0.058	0.058	38	J+	2.1	0.062	0.062
	N-PROPYLBENZENE	3,400	ND	U	0.72	0.072	0.072	0.98	J+	0.33	0.067	0.067	15	J+	0.7	0.07	0.07
	P-ISOPROPYLTOLUENE	NE	2.9		0.72	0.065	0.065	5.2	J+	0.33	0.06	0.06	8.6	J+	0.7	0.063	0.063
	SEC-BUTYLBENZENE	7,800	ND	U	0.72	0.07	0.07	2.3	J+	0.33	0.064	0.064	12	J+	0.7	0.068	0.068
	STYRENE	7,280	ND	U	0.18	0.014	0.014	ND	U	0.33	0.052	0.052	ND	U	0.7	0.055	0.055
	TERT-BUTYLBENZENE	7,800	ND	U	0.72	0.079	0.079	0.089	J+	0.33	0.073	0.073	0.25	J+	0.7	0.077	0.077
	TETRACHLOROETHENE	7.02	ND	U	0.18	0.022	0.022	ND	U	0.33	0.081	0.081	ND	U	0.7	0.086	0.086
	TOLUENE	5,270	ND	U	0.18	0.02	0.02	ND	U	0.33	0.073	0.073	0.18	J+	0.7	0.077	0.077
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.18	0.02	0.02	ND	U	0.33	0.074	0.074	ND	U	0.7	0.078	0.078
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.18	0.025	0.025	ND	U	0.33	0.091	0.091	ND	U	0.7	0.096	0.096
	TRICHLOROETHENE	8.77	ND	U	0.18	0.025	0.025	ND	U	0.33	0.092	0.092	ND	U	0.7	0.097	0.097
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.18	0.019	0.019	ND	U	0.33	0.069	0.069	ND	U	0.7	0.073	0.073
	VINYL ACETATE	2,560	ND	U	1.8	1.8	1.8	ND	U	6.6	6.6	6.6	ND	U	7	7	7
	VINYL CHLORIDE	0.728	ND	U	0.18	0.015	0.015	ND	U	0.33	0.055	0.055	ND	U	0.7	0.057	0.057
	XYLENES	814	1		0.36	0.053	0.053	3.8	J+	0.66	0.2	0.2	24	J+	1.4	0.21	0.21

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-48					FFOR-EXC-49					FFOR-EXC-50				
	SAMPLE NO		FFOR-CF-0052					FFOR-CF-0053					FFOR-CF-0054				
	SAMPLE DATE		27-Aug-14					27-Aug-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.8		0.27	0.12	0.12	5.6		0.26	0.11	0.11	2.5		0.28	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	29		11	5.9	5.9	**3,200**		110	59	59	ND	U	11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	0.54	J	3.6	0.47	0.47	**2,200**	J+	37	4.8	4.8	ND	U	3.7	0.48	0.48
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	53	53	53	ND	U	540	540	540	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.21	0.061	0.061	ND	U	0.21	0.062	0.062	ND	U	0.22	0.063	0.063
	1,2-DICHLOROBENZENE	2,310	ND	U	0.21	0.041	0.041	ND	U	0.21	0.042	0.042	ND	U	0.22	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.21	0.06	0.06	ND	U	0.21	0.06	0.06	ND	U	0.22	0.062	0.062
	1,4-DICHLOROBENZENE	31.7	ND	U	0.21	0.066	0.066	ND	U	0.21	0.066	0.066	ND	U	0.22	0.068	0.068
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.21	0.047	0.047	ND	U	0.21	0.047	0.047	ND	U	0.22	0.048	0.048
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058	ND	U	0.22	0.06	0.06
	2,4-DICHLOROPHENOL	183	ND	U	0.42	0.065	0.065	ND	U	0.43	0.066	0.066	ND	U	0.44	0.067	0.067
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.32	0.063	0.063	ND	U	0.32	0.064	0.064	ND	U	0.33	0.065	0.065
	2,4-DINITROPHENOL	122	ND	U	0.53	0.074	0.074	ND	U	0.53	0.075	0.075	ND	U	0.54	0.077	0.077
	2,4-DINITROTOLUENE	15.7	ND	U	0.53	0.078	0.078	ND	U	0.53	0.079	0.079	ND	U	0.54	0.08	0.08
	2,6-DINITROTOLUENE	61.1	ND	U	0.53	0.063	0.063	ND	U	0.53	0.063	0.063	ND	U	0.54	0.065	0.065
	2-CHLORONAPHTHALENE	6,260	ND	U	0.26	0.06	0.06	ND	U	0.27	0.061	0.061	ND	U	0.27	0.062	0.062
	2-CHLOROPHENOL	391	ND	U	0.21	0.066	0.066	ND	U	0.21	0.067	0.067	ND	U	0.22	0.068	0.068
	2-METHYLNAPHTHALENE	230	ND	U	0.21	0.063	0.063	6.2		0.43	0.13	0.13	ND	U	0.22	0.065	0.065
	2-METHYLPHENOL	3,100	ND	U	0.53	0.06	0.06	ND	U	0.53	0.061	0.061	ND	U	0.54	0.062	0.062
	2-NITROANILINE	610	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051	ND	U	0.22	0.052	0.052
	2-NITROPHENOL	NE	ND	U	0.21	0.058	0.058	ND	U	0.21	0.059	0.059	ND	U	0.22	0.06	0.06
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.26	0.059	0.059	ND	U	0.27	0.059	0.059	ND	U	0.27	0.06	0.06
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.21	0.071	0.071	ND	U	0.21	0.072	0.072	ND	U	0.22	0.073	0.073
	3-NITROANILINE	NE	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062	ND	U	0.22	0.063	0.063
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.53	0.043	0.043	ND	U	0.53	0.044	0.044	ND	U	0.54	0.045	0.045
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.21	0.053	0.053	ND	U	0.21	0.054	0.054	ND	U	0.22	0.055	0.055
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.53	0.056	0.056	ND	U	0.53	0.057	0.057	ND	U	0.54	0.058	0.058
	4-CHLOROANILINE	2.4	ND	U	0.53	0.056	0.056	ND	U	0.53	0.057	0.057	ND	U	0.54	0.058	0.058
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.21	0.06	0.06	ND	U	0.21	0.061	0.061	ND	U	0.22	0.062	0.062
	4-NITROANILINE	24	ND	U	0.42	0.051	0.051	ND	U	0.43	0.051	0.051	ND	U	0.44	0.052	0.052
	4-NITROPHENOL	NE	ND	U	0.26	0.065	0.065	ND	U	0.27	0.066	0.066	ND	U	0.27	0.067	0.067
	ACENAPHTHENE	3440	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051	ND	U	0.22	0.052	0.052
	ACENAPHTHYLENE	NE	ND	U	0.21	0.052	0.052	ND	U	0.21	0.052	0.052	ND	U	0.22	0.053	0.053
	ANTHRACENE	17,200	ND	U	0.21	0.046	0.046	ND	U	0.21	0.046	0.046	ND	U	0.22	0.047	0.047
	BENZENAMINE	85	ND	U	0.21	0.062	0.062	ND	U	0.21	0.063	0.063	ND	U	0.22	0.064	0.064
	BENZO(A)ANTHRACENE	1.48	ND	U	0.21	0.057	0.057	0.15	J	0.21	0.058	0.058	ND	U	0.22	0.059	0.059
	BENZO(A)PYRENE	0.148	ND	U	0.21	0.064	0.064	0.07	J	0.21	0.064	0.064	ND	U	0.22	0.066	0.066
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.21	0.073	0.073	0.41		0.21	0.073	0.073	ND	U	0.22	0.075	0.075
	BENZO(GHI)PERYLENE	NE	ND	U	0.21	0.064	0.064	0.11	J	0.21	0.065	0.065	ND	U	0.22	0.066	0.066
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.21	0.08	0.08	0.11	J	0.21	0.081	0.081	ND	U	0.22	0.083	0.083
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.21	0.071	0.071	ND	U	0.21	0.072	0.072	ND	U	0.22	0.073	0.073
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.21	0.085	0.085	ND	U	0.21	0.086	0.086	ND	U	0.22	0.087	0.087
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.21	0.039	0.039	ND	U	0.21	0.04	0.04	ND	U	0.22	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	0.53	0.071	0.071	ND	UJ	0.53	0.072	0.072	ND	UJ	0.54	0.073	0.073
	BUTYL BENZYL PHTHALATE	260	ND	U	0.21	0.045	0.045	ND	U	0.21	0.045	0.045	ND	U	0.22	0.046	0.046

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-48					FFOR-EXC-49					FFOR-EXC-50				
	SAMPLE NO		FFOR-CF-0052					FFOR-CF-0053					FFOR-CF-0054				
	SAMPLE DATE		27-Aug-14					27-Aug-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.21	0.047	0.047	ND	U	0.21	0.048	0.048	ND	U	0.22	0.049	0.049
	CHRYSENE	148	ND	U	0.21	0.054	0.054	0.23		0.21	0.054	0.054	ND	U	0.22	0.055	0.055
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.21	0.063	0.063	ND	U	0.21	0.064	0.064	ND	U	0.22	0.065	0.065
	DIBENZOFURAN	78	ND	U	0.21	0.071	0.071	0.28		0.21	0.072	0.072	ND	U	0.22	0.073	0.073
	DIETHYL PHTHALATE	48,900	ND	U	0.21	0.047	0.047	ND	U	0.21	0.048	0.048	ND	U	0.22	0.049	0.049
	DIMETHYL PHTHALATE	611,000	ND	U	0.21	0.059	0.059	ND	U	0.21	0.059	0.059	ND	U	0.22	0.06	0.06
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.53	0.048	0.048	0.076	J	0.53	0.048	0.048	ND	U	0.54	0.049	0.049
	DI-N-OCTYL PHTHALATE	610	ND	U	0.42	0.26	0.26	ND	U	0.43	0.27	0.27	ND	U	0.44	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.21	0.047	0.047	0.65		0.21	0.048	0.048	ND	U	0.22	0.049	0.049
	FLUORENE	2,290	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062	ND	U	0.22	0.064	0.064
	HEXACHLOROBENZENE	3.04	ND	U	0.21	0.058	0.058	ND	U	0.21	0.058	0.058	ND	U	0.22	0.059	0.059
	HEXACHLOROBUTADIENE	61.1	ND	U	0.21	0.051	0.051	ND	U	0.21	0.051	0.051	ND	U	0.22	0.052	0.052
	HEXACHLOROCYCLOPENTADIENE	367	ND	UJ	0.21	0.068	0.068	ND	UJ	0.21	0.069	0.069	ND	UJ	0.22	0.07	0.07
	HEXACHLOROETHANE	42.8	ND	U	0.21	0.074	0.074	ND	U	0.21	0.075	0.075	ND	U	0.22	0.076	0.076
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.21	0.07	0.07	0.12	J	0.21	0.071	0.071	ND	U	0.22	0.072	0.072
	ISOPHORONE	5,120	ND	U	0.53	0.069	0.069	ND	U	0.53	0.07	0.07	ND	U	0.54	0.071	0.071
	NAPHTHALENE	43	ND	U	0.21	0.05	0.05	4.2		0.21	0.051	0.051	ND	U	0.22	0.052	0.052
	NITROBENZENE	53.5	ND	U	0.53	0.059	0.059	ND	U	0.53	0.06	0.06	ND	U	0.54	0.061	0.061
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.21	0.08	0.08	ND	U	0.21	0.081	0.081	ND	U	0.22	0.082	0.082
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.21	0.07	0.07	ND	U	0.21	0.071	0.071	ND	U	0.22	0.072	0.072
	N-NITROSODIPHENYLAMINE	993	ND	U	0.21	0.062	0.062	ND	U	0.21	0.062	0.062	ND	U	0.22	0.064	0.064
	PENTACHLOROPHENOL	8.94	ND	U	0.42	0.086	0.086	ND	U	0.43	0.087	0.087	ND	U	0.44	0.088	0.088
	PHENANTHRENE	1,830	ND	U	0.21	0.038	0.038	0.59		0.21	0.039	0.039	ND	U	0.22	0.039	0.039
	PHENOL	18,300	ND	U	0.21	0.062	0.062	ND	U	0.21	0.063	0.063	ND	U	0.22	0.064	0.064
	PYRENE	1,720	ND	U	0.21	0.057	0.057	0.69		0.21	0.058	0.058	ND	U	0.22	0.059	0.059
	PYRIDINE	78	ND	U	0.53	0.059	0.059	ND	U	0.53	0.059	0.059	ND	U	0.54	0.06	0.06
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-48					FFOR-EXC-49					FFOR-EXC-50				
	SAMPLE NO		FFOR-CF-0052					FFOR-CF-0053					FFOR-CF-0054				
	SAMPLE DATE		27-Aug-14					27-Aug-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.036	0.0043	0.0043	ND	U	0.37	0.044	0.044	ND	U	0.00144	0.000721	0.000721
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.036	0.0036	0.0036	ND	U	0.37	0.037	0.037	ND	U	0.00144	0.000721	0.000721
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.036	0.006	0.006	ND	U	0.37	0.061	0.061	ND	U	0.00144	0.000721	0.000721
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.036	0.0044	0.0044	ND	U	0.37	0.044	0.044	ND	U	0.00144	0.000721	0.000721
	1,1-DICHLOROETHANE	64.5	ND	U	0.036	0.0025	0.0025	ND	U	0.37	0.025	0.025	ND	U	0.00144	0.000721	0.000721
	1,1-DICHLOROETHENE	449	ND	U	0.036	0.0029	0.0029	ND	U	0.37	0.029	0.029	ND	U	0.00144	0.000721	0.000721
	1,1-DICHLOROPROPENE	NE	ND	U	0.072	0.0056	0.0056	ND	U	0.74	0.057	0.057	ND	U	0.00144	0.000721	0.000721
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.072	0.004	0.004	ND	U	0.74	0.041	0.041	ND	U	0.00144	0.000721	0.000721
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.072	0.0055	0.0055	ND	U	0.74	0.056	0.056	ND	U	0.00144	0.000721	0.000721
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.036	0.004	0.004	ND	U	0.37	0.041	0.041	ND	U	0.00144	0.000721	0.000721
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.036	0.0044	0.0044	30	J+	0.37	0.045	0.045	ND	U	0.00144	0.000721	0.000721
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.072	0.0049	0.0049	ND	U	0.74	0.05	0.05	ND	U	0.00144	0.000721	0.000721
	1,2-DIBROMOETHANE	0.588	ND	U	0.036	0.0041	0.0041	ND	U	0.37	0.042	0.042	ND	U	0.00144	0.000721	0.000721
	1,2-DICHLOROBENZENE	2,310	ND	U	0.036	0.0043	0.0043	ND	U	0.37	0.043	0.043	ND	U	0.00144	0.000721	0.000721
	1,2-DICHLOROETHANE	7.89	ND	U	0.036	0.006	0.006	ND	U	0.37	0.061	0.061	ND	U	0.00144	0.000721	0.000721
	1,2-DICHLOROPROPANE	15.2	ND	U	0.036	0.0032	0.0032	ND	U	0.37	0.033	0.033	ND	U	0.00144	0.000721	0.000721
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.036	0.0038	0.0038	12	J+	0.37	0.039	0.039	ND	U	0.00144	0.000721	0.000721
	1,3-DICHLOROBENZENE	NE	ND	U	0.036	0.0043	0.0043	ND	U	0.37	0.044	0.044	ND	U	0.00144	0.000721	0.000721
	1,3-DICHLOROPROPANE	1,600	ND	U	0.036	0.0068	0.0068	ND	U	0.37	0.069	0.069	ND	U	0.00144	0.000721	0.000721
	1,4-DICHLOROBENZENE	31.7	ND	U	0.036	0.0043	0.0043	ND	U	0.37	0.044	0.044	ND	U	0.00144	0.000721	0.000721
	2,2-DICHLOROPROPANE	NE	ND	U	0.072	0.0039	0.0039	ND	U	0.74	0.04	0.04	ND	U	0.00144	0.000721	0.000721
	2-BUTANONE	37,100	ND	U	0.36	0.017	0.017	0.93	J+	3.7	0.17	0.17	ND	U	0.00721	0.00721	0.00721
	2-CHLOROTOLUENE	1,560	ND	U	0.036	0.0032	0.0032	ND	U	0.37	0.032	0.032	ND	U	0.00144	0.000721	0.000721
	2-HEXANONE	210	ND	U	0.36	0.017	0.017	ND	U	3.7	0.18	0.18	ND	U	0.00721	0.00721	0.00721
	4-CHLOROTOLUENE	1,600	ND	U	0.036	0.01	0.01	ND	U	0.37	0.11	0.11	ND	U	0.00144	0.000721	0.000721
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.36	0.014	0.014	ND	U	3.7	0.14	0.14	ND	U	0.00721	0.00721	0.00721
	ACETONE	66,600	ND	U	0.54	0.035	0.035	0.89	J+	5.5	0.36	0.36	0.00979	J+	0.00721	0.00721	0.00721
	BENZENE	15.4	ND	U	0.036	0.004	0.004	0.044	J+	0.37	0.04	0.04	ND	U	0.00144	0.000721	0.000721
	BROMOBENZENE	300	ND	U	0.036	0.0056	0.0056	ND	U	0.37	0.057	0.057	ND	U	0.00144	0.000721	0.000721
	BROMOCHLOROMETHANE	160	ND	U	0.036	0.017	0.017	ND	U	0.37	0.17	0.17	ND	U	0.00144	0.000721	0.000721
	BROMODICHLOROMETHANE	5.41	ND	U	0.036	0.0046	0.0046	ND	U	0.37	0.047	0.047	ND	U	0.00144	0.000721	0.000721
	BROMOFORM	616	ND	U	0.036	0.0034	0.0034	ND	U	0.37	0.034	0.034	ND	U	0.00144	0.000721	0.000721
	BROMOMETHANE	16.5	ND	U	0.11	0.0052	0.0052	ND	U	1.1	0.053	0.053	ND	U	0.00361	0.000721	0.000721
	CARBON DISULFIDE	1,530	ND	U	0.36	0.0096	0.0096	ND	U	3.7	0.097	0.097	ND	U	0.00721	0.00721	0.00721
	CARBON TETRACHLORIDE	10.8	ND	U	0.036	0.005	0.005	ND	U	0.37	0.051	0.051	ND	U	0.00144	0.000721	0.000721
	CHLOROBENZENE	376	ND	U	0.036	0.004	0.004	ND	U	0.37	0.04	0.04	ND	U	0.00144	0.000721	0.000721
	CHLOROETHANE	29,800	ND	U	0.072	0.006	0.006	ND	U	0.74	0.061	0.061	ND	U	0.00144	0.000721	0.000721
	CHLOROFORM	5.86	ND	U	0.036	0.013	0.013	ND	U	0.37	0.13	0.13	ND	U	0.00144	0.000721	0.000721
	CHLOROMETHANE	275	ND	U	0.11	0.0033	0.0033	ND	UJ	1.1	0.034	0.034	ND	UJ	0.00144	0.000721	0.000721
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.036	0.0033	0.0033	ND	U	0.37	0.034	0.034	ND	U	0.00144	0.000721	0.000721
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.036	0.0045	0.0045	ND	U	0.37	0.046	0.046	ND	U	0.00144	0.000721	0.000721
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.036	0.0035	0.0035	ND	U	0.37	0.036	0.036	ND	U	0.00144	0.000721	0.000721
	DIBROMOMETHANE	51.6	ND	U	0.036	0.0041	0.0041	ND	U	0.37	0.042	0.042	ND	U	0.00144	0.000721	0.000721
	DICHLORODIFLUOROMETHANE	168	ND	U	0.036	0.0087	0.0087	ND	U	0.37	0.089	0.089	ND	U	0.00144	0.000721	0.000721
	ETHYLBENZENE	68.4	ND	U	0.036	0.0038	0.0038	4.2	J+	0.37	0.039	0.039	ND	U	0.00144	0.000721	0.000721
	HEXACHLOROBUTADIENE	61.1	ND	U	0.072	0.0053	0.0053	ND	UJ	0.74	0.054	0.054	ND	U	0.00144	0.000721	0.000721

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-48					FFOR-EXC-49					FFOR-EXC-50				
	SAMPLE NO	FFOR-CF-0052					FFOR-CF-0053					FFOR-CF-0054				
	SAMPLE DATE	27-Aug-14					27-Aug-14					2-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.036	0.0029	0.0029	2.6	J+	0.37	0.029	0.029	ND	U	0.00144	0.000721	0.000721
	METHYL TERT-BUTYL ETHER	901	ND	U	0.036	0.013	0.013	ND	U	0.37	0.14	0.14	ND	U	0.00144	0.000721	0.000721
	METHYLENE CHLORIDE	409	ND	U	0.11	0.0034	0.0034	ND	U	1.1	0.035	0.035	ND	U	0.00361	0.00144	0.00144
	NAPHTHALENE	43	ND	U	0.072	0.003	0.003	6.9	J+	0.74	0.031	0.031	ND	U	0.00144	0.00144	0.00144
	N-BUTYLBENZENE	3,900	ND	U	0.11	0.0032	0.0032	9.7	J+	1.1	0.032	0.032	ND	U	0.00144	0.000721	0.000721
	N-PROPYLBENZENE	3,400	ND	U	0.036	0.0036	0.0036	6.9	J+	0.37	0.037	0.037	ND	U	0.00144	0.000721	0.000721
	P-ISOPROPYLTOLUENE	NE	ND	U	0.036	0.0033	0.0033	3.3	J+	0.37	0.033	0.033	ND	U	0.00144	0.000721	0.000721
	SEC-BUTYLBENZENE	7,800	ND	U	0.036	0.0035	0.0035	4.3	J	0.37	0.036	0.036	ND	U	0.00144	0.000721	0.000721
	STYRENE	7,280	ND	U	0.036	0.0028	0.0028	ND	U	0.37	0.029	0.029	ND	U	0.00144	0.000721	0.000721
	TERT-BUTYLBENZENE	7,800	ND	U	0.036	0.004	0.004	0.2	J+	0.37	0.041	0.041	ND	U	0.00144	0.000721	0.000721
	TETRACHLOROETHENE	7.02	ND	U	0.036	0.0044	0.0044	ND	U	0.37	0.045	0.045	ND	U	0.00144	0.000721	0.000721
	TOLUENE	5,270	ND	U	0.036	0.004	0.004	1	J+	0.37	0.041	0.041	ND	U	0.00144	0.000721	0.000721
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.036	0.004	0.004	ND	U	0.37	0.041	0.041	ND	U	0.00144	0.000721	0.000721
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.036	0.005	0.005	ND	U	0.37	0.051	0.051	ND	U	0.00144	0.000721	0.000721
	TRICHLOROETHENE	8.77	ND	U	0.036	0.005	0.005	0.06	J+	0.37	0.051	0.051	ND	U	0.00144	0.000721	0.000721
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.036	0.0038	0.0038	ND	U	0.37	0.038	0.038	ND	U	0.00144	0.000721	0.000721
	VINYL ACETATE	2,560	ND	UJ	0.36	0.36	0.36	ND	UJ	3.7	3.7	3.7	ND	U	0.00721	0.00721	0.00721
	VINYL CHLORIDE	0.728	ND	U	0.036	0.003	0.003	ND	U	0.37	0.03	0.03	ND	U	0.00144	0.000721	0.000721
	XYLENES	814	ND	U	0.072	0.011	0.011	27	J+	0.74	0.11	0.11	ND	U	0.00144	0.00144	0.00144

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be meas

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-50					FFOR-EXC-51					FFOR-EXC-52				
	SAMPLE NO		FFOR-CF-0055					FFOR-CF-0056					FFOR-CF-0057				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.3		0.27	0.12	0.12	3.9		0.27	0.12	0.12	3.8		0.28	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6	6	990		11	5.8	5.8	ND	U	11	6.2	6.2
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.7	0.48	0.48	4.5		3.6	0.47	0.47	0.71	J	3.6	0.47	0.47
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	53	53	53	ND	U	56	56	56
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.063	0.063	ND	U	0.21	0.061	0.061	ND	U	0.22	0.065	0.065
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.043	0.043	ND	U	0.21	0.041	0.041	ND	U	0.22	0.044	0.044
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.062	0.062	ND	U	0.21	0.06	0.06	ND	U	0.22	0.063	0.063
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.068	0.068	ND	U	0.21	0.066	0.066	ND	U	0.22	0.07	0.07
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.049	0.049	ND	U	0.21	0.047	0.047	ND	U	0.22	0.05	0.05
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.06	0.06	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061
	2,4-DICHLOROPHENOL	183	ND	U	0.44	0.068	0.068	ND	U	0.42	0.065	0.065	ND	U	0.45	0.069	0.069
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.065	0.065	ND	U	0.32	0.063	0.063	ND	U	0.34	0.067	0.067
	2,4-DINITROPHENOL	122	ND	U	0.55	0.077	0.077	ND	U	0.53	0.075	0.075	ND	U	0.56	0.079	0.079
	2,4-DINITROTOLUENE	15.7	ND	U	0.55	0.081	0.081	ND	U	0.53	0.078	0.078	ND	U	0.56	0.083	0.083
	2,6-DINITROTOLUENE	61.1	ND	U	0.55	0.065	0.065	ND	U	0.53	0.063	0.063	ND	U	0.56	0.066	0.066
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.063	0.063	ND	U	0.26	0.061	0.061	ND	U	0.28	0.064	0.064
	2-CHLOROPHENOL	391	ND	U	0.22	0.068	0.068	ND	U	0.21	0.066	0.066	ND	U	0.22	0.07	0.07
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.065	0.065	ND	U	0.21	0.063	0.063	ND	U	0.22	0.067	0.067
	2-METHYLPHENOL	3,100	ND	U	0.55	0.063	0.063	ND	U	0.53	0.061	0.061	ND	U	0.56	0.064	0.064
	2-NITROANILINE	610	ND	U	0.22	0.053	0.053	ND	U	0.21	0.051	0.051	ND	U	0.22	0.054	0.054
	2-NITROPHENOL	NE	ND	U	0.22	0.06	0.06	ND	U	0.21	0.058	0.058	ND	U	0.22	0.062	0.062
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.061	0.061	ND	U	0.26	0.059	0.059	ND	U	0.28	0.062	0.062
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.074	0.074	ND	U	0.21	0.071	0.071	ND	U	0.22	0.076	0.076
	3-NITROANILINE	NE	ND	U	0.22	0.064	0.064	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.55	0.045	0.045	ND	U	0.53	0.043	0.043	ND	U	0.56	0.046	0.046
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.055	0.055	ND	U	0.21	0.053	0.053	ND	U	0.22	0.056	0.056
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.55	0.058	0.058	ND	U	0.53	0.056	0.056	ND	U	0.56	0.059	0.059
	4-CHLOROANILINE	2.4	ND	U	0.55	0.058	0.058	ND	U	0.53	0.056	0.056	ND	U	0.56	0.059	0.059
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.062	0.062	ND	U	0.21	0.06	0.06	ND	U	0.22	0.064	0.064
	4-NITROANILINE	24	ND	U	0.44	0.053	0.053	ND	U	0.42	0.051	0.051	ND	U	0.45	0.054	0.054
	4-NITROPHENOL	NE	ND	U	0.27	0.067	0.067	ND	U	0.26	0.065	0.065	ND	U	0.28	0.069	0.069
	ACENAPHTHENE	3440	ND	U	0.22	0.053	0.053	ND	U	0.21	0.051	0.051	ND	U	0.22	0.054	0.054
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	U	0.21	0.052	0.052	ND	U	0.22	0.055	0.055
	ANTHRACENE	17,200	ND	U	0.22	0.047	0.047	ND	U	0.21	0.046	0.046	ND	U	0.22	0.048	0.048
	BENZENAMINE	85	ND	U	0.22	0.065	0.065	ND	U	0.21	0.063	0.063	ND	U	0.22	0.066	0.066
	BENZO(A)ANTHRACENE	1.48	ND	U	0.22	0.06	0.06	0.14	J	0.21	0.058	0.058	ND	U	0.22	0.061	0.061
	BENZO(A)PYRENE	0.148	ND	U	0.22	0.066	0.066	**0.22**		0.21	0.064	0.064	ND	U	0.22	0.068	0.068
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.22	0.075	0.075	0.28		0.21	0.073	0.073	0.083	J	0.22	0.077	0.077
	BENZO(GHI)PERYLENE	NE	ND	U	0.22	0.066	0.066	0.13	J	0.21	0.064	0.064	ND	U	0.22	0.068	0.068
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.083	0.083	0.09	J	0.21	0.08	0.08	ND	U	0.22	0.085	0.085
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.074	0.074	ND	U	0.21	0.071	0.071	ND	U	0.22	0.076	0.076
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.088	0.088	ND	U	0.21	0.085	0.085	ND	U	0.22	0.09	0.09
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.041	0.041	ND	U	0.21	0.039	0.039	ND	U	0.22	0.042	0.042
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	0.55	0.074	0.074	ND	UJ	0.53	0.071	0.071	ND	UJ	0.56	0.075	0.075
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.047	0.047	ND	U	0.21	0.045	0.045	ND	U	0.22	0.048	0.048

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-50					FFOR-EXC-51					FFOR-EXC-52				
	SAMPLE NO		FFOR-CF-0055					FFOR-CF-0056					FFOR-CF-0057				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.049	0.049	ND	U	0.21	0.048	0.048	ND	U	0.22	0.05	0.05
	CHRYSENE	148	ND	U	0.22	0.056	0.056	0.13	J	0.21	0.054	0.054	0.065	J	0.22	0.057	0.057
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.065	0.065	ND	U	0.21	0.063	0.063	ND	U	0.22	0.067	0.067
	DIBENZOFURAN	78	ND	U	0.22	0.074	0.074	ND	U	0.21	0.071	0.071	ND	U	0.22	0.075	0.075
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.049	0.049	ND	U	0.21	0.048	0.048	ND	U	0.22	0.05	0.05
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.061	0.061	ND	U	0.21	0.059	0.059	ND	U	0.22	0.062	0.062
	DI-N-BUTYL PHTHALATE	6,110	0.053	J	0.55	0.049	0.049	0.049	J	0.53	0.048	0.048	0.054	J	0.56	0.05	0.05
	DI-N-OCTYL PHTHALATE	610	ND	U	0.44	0.27	0.27	ND	U	0.42	0.27	0.27	ND	U	0.45	0.28	0.28
	FLUORANTHENE	2,290	ND	U	0.22	0.049	0.049	0.18	J	0.21	0.047	0.047	ND	U	0.22	0.05	0.05
	FLUORENE	2,290	ND	U	0.22	0.064	0.064	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.06	0.06	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.053	0.053	ND	U	0.21	0.051	0.051	ND	U	0.22	0.054	0.054
	HEXACHLOROCYCLOPENTADIENE	367	ND	UJ	0.22	0.071	0.071	ND	UJ	0.21	0.069	0.069	ND	UJ	0.22	0.072	0.072
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.077	0.077	ND	U	0.21	0.074	0.074	ND	U	0.22	0.079	0.079
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.22	0.073	0.073	0.15	J	0.21	0.07	0.07	ND	U	0.22	0.074	0.074
	ISOPHORONE	5,120	ND	U	0.55	0.072	0.072	ND	U	0.53	0.07	0.07	ND	U	0.56	0.074	0.074
	NAPHTHALENE	43	ND	U	0.22	0.052	0.052	ND	U	0.21	0.05	0.05	ND	U	0.22	0.053	0.053
	NITROBENZENE	53.5	ND	U	0.55	0.061	0.061	ND	U	0.53	0.059	0.059	ND	U	0.56	0.063	0.063
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.083	0.083	ND	U	0.21	0.08	0.08	ND	U	0.22	0.085	0.085
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.073	0.073	ND	U	0.21	0.07	0.07	ND	U	0.22	0.074	0.074
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.064	0.064	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065
	PENTACHLOROPHENOL	8.94	ND	U	0.44	0.089	0.089	ND	U	0.42	0.086	0.086	ND	U	0.45	0.091	0.091
	PHENANTHRENE	1,830	ND	U	0.22	0.04	0.04	ND	U	0.21	0.038	0.038	ND	U	0.22	0.041	0.041
	PHENOL	18,300	ND	U	0.22	0.064	0.064	ND	U	0.21	0.062	0.062	ND	U	0.22	0.066	0.066
	PYRENE	1,720	ND	U	0.22	0.059	0.059	0.53		0.21	0.057	0.057	0.096	J	0.22	0.061	0.061
	PYRIDINE	78	ND	U	0.55	0.061	0.061	ND	U	0.53	0.059	0.059	ND	U	0.56	0.062	0.062
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-50					FFOR-EXC-51					FFOR-EXC-52				
	SAMPLE NO		FFOR-CF-0055					FFOR-CF-0056					FFOR-CF-0057				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0043	0.0043	ND	U	0.00145	0.000725	0.000725
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0036	0.0036	ND	U	0.00145	0.000725	0.000725
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.006	0.006	ND	U	0.00145	0.000725	0.000725
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0044	0.0044	ND	U	0.00145	0.000725	0.000725
	1,1-DICHLOROETHANE	64.5	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0025	0.0025	ND	U	0.00145	0.000725	0.000725
	1,1-DICHLOROETHENE	449	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0029	0.0029	ND	U	0.00145	0.000725	0.000725
	1,1-DICHLOROPROPENE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0056	0.0056	ND	U	0.00145	0.000725	0.000725
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0041	0.0041	ND	U	0.00145	0.000725	0.000725
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0055	0.0055	ND	U	0.00145	0.000725	0.000725
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	ND	U	0.00145	0.000725	0.000725
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0044	0.0044	0.00105	J	0.00145	0.000725	0.000725
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0049	0.0049	ND	U	0.00145	0.000725	0.000725
	1,2-DIBROMOETHANE	0.588	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0041	0.0041	ND	U	0.00145	0.000725	0.000725
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0043	0.0043	ND	U	0.00145	0.000725	0.000725
	1,2-DICHLOROETHANE	7.89	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.006	0.006	ND	U	0.00145	0.000725	0.000725
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0032	0.0032	ND	U	0.00145	0.000725	0.000725
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0038	0.0038	ND	U	0.00145	0.000725	0.000725
	1,3-DICHLOROBENZENE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0043	0.0043	ND	U	0.00145	0.000725	0.000725
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0068	0.0068	ND	U	0.00145	0.000725	0.000725
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0043	0.0043	ND	U	0.00145	0.000725	0.000725
	2,2-DICHLOROPROPANE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0039	0.0039	ND	U	0.00145	0.000725	0.000725
	2-BUTANONE	37,100	ND	U	0.00749	0.00749	0.00749	ND	UJ	0.36	0.017	0.017	0.0587		0.00725	0.00725	0.00725
	2-CHLOROTOLUENE	1,560	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0032	0.0032	ND	U	0.00145	0.000725	0.000725
	2-HEXANONE	210	ND	U	0.00749	0.00749	0.00749	ND	U	0.36	0.017	0.017	ND	U	0.00725	0.00725	0.00725
	4-CHLOROTOLUENE	1,600	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.01	0.01	ND	U	0.00145	0.000725	0.000725
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00749	0.00749	0.00749	ND	U	0.36	0.014	0.014	ND	U	0.00725	0.00725	0.00725
	ACETONE	66,600	0.0112	J-	0.00749	0.00749	0.00749	ND	U	0.54	0.035	0.035	0.266	J+	0.00725	0.00725	0.00725
	BENZENE	15.4	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	0.00172		0.00145	0.000725	0.000725
	BROMOBENZENE	300	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0056	0.0056	ND	U	0.00145	0.000725	0.000725
	BROMOCHLOROMETHANE	160	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.017	0.017	ND	U	0.00145	0.000725	0.000725
	BROMODICHLOROMETHANE	5.41	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0047	0.0047	ND	U	0.00145	0.000725	0.000725
	BROMOFORM	616	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0034	0.0034	ND	U	0.00145	0.000725	0.000725
	BROMOMETHANE	16.5	ND	U	0.00375	0.000749	0.000749	ND	U	0.11	0.0052	0.0052	ND	U	0.00363	0.000725	0.000725
	CARBON DISULFIDE	1,530	ND	U	0.00749	0.00749	0.00749	ND	U	0.36	0.0096	0.0096	ND	U	0.00725	0.00725	0.00725
	CARBON TETRACHLORIDE	10.8	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0051	0.0051	ND	U	0.00145	0.000725	0.000725
	CHLOROBENZENE	376	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	ND	U	0.00145	0.000725	0.000725
	CHLOROETHANE	29,800	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.006	0.006	ND	U	0.00145	0.000725	0.000725
	CHLOROFORM	5.86	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.013	0.013	ND	U	0.00145	0.000725	0.000725
	CHLOROMETHANE	275	ND	UJ	0.0015	0.000749	0.000749	ND	U	0.11	0.0033	0.0033	ND	UJ	0.00145	0.000725	0.000725
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0033	0.0033	ND	U	0.00145	0.000725	0.000725
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0045	0.0045	ND	U	0.00145	0.000725	0.000725
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0035	0.0035	ND	U	0.00145	0.000725	0.000725
	DIBROMOMETHANE	51.6	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0042	0.0042	ND	U	0.00145	0.000725	0.000725
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0088	0.0088	ND	U	0.00145	0.000725	0.000725
	ETHYLBENZENE	68.4	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0039	0.0039	ND	U	0.00145	0.000725	0.000725
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0015	0.000749	0.000749	ND	U	0.072	0.0053	0.0053	ND	U	0.00145	0.000725	0.000725

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-50					FFOR-EXC-51					FFOR-EXC-52				
	SAMPLE NO	FFOR-CF-0055					FFOR-CF-0056					FFOR-CF-0057				
	SAMPLE DATE	2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE	FD					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0029	0.0029	ND	U	0.00145	0.000725	0.000725
	METHYL TERT-BUTYL ETHER	901	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.014	0.014	ND	U	0.00145	0.000725	0.000725
	METHYLENE CHLORIDE	409	ND	U	0.00375	0.0015	0.0015	ND	U	0.11	0.0034	0.0034	ND	U	0.00363	0.00145	0.00145
	NAPHTHALENE	43	ND	U	0.0015	0.0015	0.0015	ND	U	0.072	0.003	0.003	ND	U	0.00145	0.00145	0.00145
	N-BUTYLBENZENE	3,900	ND	U	0.0015	0.000749	0.000749	ND	U	0.11	0.0032	0.0032	ND	U	0.00145	0.000725	0.000725
	N-PROPYLBENZENE	3,400	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0036	0.0036	ND	U	0.00145	0.000725	0.000725
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0033	0.0033	ND	U	0.00145	0.000725	0.000725
	SEC-BUTYLBENZENE	7,800	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0035	0.0035	ND	U	0.00145	0.000725	0.000725
	STYRENE	7,280	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0028	0.0028	ND	U	0.00145	0.000725	0.000725
	TERT-BUTYLBENZENE	7,800	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	ND	U	0.00145	0.000725	0.000725
	TETRACHLOROETHENE	7.02	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0044	0.0044	ND	U	0.00145	0.000725	0.000725
	TOLUENE	5,270	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	0.00273		0.00145	0.000725	0.000725
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.004	0.004	ND	U	0.00145	0.000725	0.000725
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.005	0.005	ND	U	0.00145	0.000725	0.000725
	TRICHLOROETHENE	8.77	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.005	0.005	ND	U	0.00145	0.000725	0.000725
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.0038	0.0038	ND	U	0.00145	0.000725	0.000725
	VINYL ACETATE	2,560	ND	U	0.00749	0.00749	0.00749	ND	U	0.36	0.36	0.36	ND	U	0.00725	0.00725	0.00725
	VINYL CHLORIDE	0.728	ND	U	0.0015	0.000749	0.000749	ND	U	0.036	0.003	0.003	ND	U	0.00145	0.000725	0.000725
	XYLENES	814	ND	U	0.0015	0.0015	0.0015	ND	U	0.072	0.011	0.011	0.00221		0.00145	0.00145	0.00145

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-53					FFOR-EXC-54					FFOR-EXC-55				
	SAMPLE NO		FFOR-CF-0058					FFOR-CF-0059					FFOR-CF-0060				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	5.8		0.26	0.11	0.11	18		0.27	0.12	0.12	11	J-	0.57	0.25	0.25
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	9.4	J	10	5.8	5.8	**4,500**		110	60	60	**1,900**		110	63	63
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	4.4		3.3	0.43	0.43	750		21	2.8	2.8	690		42	5.4	5.4
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	52	52	52	ND	U	540	540	540	ND	U	570	570	570
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.21	0.061	0.061	ND	U	0.22	0.064	0.064	ND	U	0.23	0.065	0.065
	1,2-DICHLOROBENZENE	2,310	ND	U	0.21	0.041	0.041	ND	U	0.22	0.043	0.043	ND	U	0.23	0.044	0.044
	1,3-DICHLOROBENZENE	NE	ND	U	0.21	0.059	0.059	ND	U	0.22	0.062	0.062	ND	U	0.23	0.064	0.064
	1,4-DICHLOROBENZENE	31.7	ND	U	0.21	0.065	0.065	ND	U	0.22	0.068	0.068	ND	U	0.23	0.07	0.07
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.21	0.046	0.046	ND	U	0.22	0.049	0.049	ND	U	0.23	0.05	0.05
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.21	0.057	0.057	ND	U	0.22	0.06	0.06	ND	U	0.23	0.062	0.062
	2,4-DICHLOROPHENOL	183	ND	U	0.42	0.065	0.065	ND	U	0.44	0.068	0.068	ND	U	0.45	0.069	0.069
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.31	0.062	0.062	ND	U	0.33	0.066	0.066	ND	U	0.34	0.067	0.067
	2,4-DINITROPHENOL	122	ND	U	0.52	0.074	0.074	ND	U	0.55	0.078	0.078	ND	U	0.56	0.08	0.08
	2,4-DINITROTOLUENE	15.7	ND	U	0.52	0.077	0.077	ND	U	0.55	0.081	0.081	ND	U	0.56	0.083	0.083
	2,6-DINITROTOLUENE	61.1	ND	U	0.52	0.062	0.062	ND	U	0.55	0.065	0.065	ND	U	0.56	0.067	0.067
	2-CHLORONAPHTHALENE	6,260	ND	U	0.26	0.06	0.06	ND	U	0.28	0.063	0.063	ND	U	0.28	0.065	0.065
	2-CHLOROPHENOL	391	ND	U	0.21	0.065	0.065	ND	U	0.22	0.069	0.069	ND	U	0.23	0.07	0.07
	2-METHYLNAPHTHALENE	230	ND	U	0.21	0.062	0.062	13		1.1	0.33	0.33	8		0.45	0.13	0.13
	2-METHYLPHENOL	3,100	ND	U	0.52	0.06	0.06	ND	U	0.55	0.063	0.063	ND	U	0.56	0.065	0.065
	2-NITROANILINE	610	ND	U	0.21	0.051	0.051	ND	U	0.22	0.053	0.053	ND	U	0.23	0.054	0.054
	2-NITROPHENOL	NE	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061	ND	U	0.23	0.062	0.062
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.26	0.058	0.058	ND	U	0.28	0.061	0.061	ND	U	0.28	0.063	0.063
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.21	0.071	0.071	ND	U	0.22	0.074	0.074	ND	U	0.23	0.076	0.076
	3-NITROANILINE	NE	ND	U	0.21	0.061	0.061	ND	U	0.22	0.064	0.064	ND	U	0.23	0.066	0.066
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.52	0.043	0.043	ND	U	0.55	0.045	0.045	ND	U	0.56	0.046	0.046
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.21	0.053	0.053	ND	U	0.22	0.055	0.055	ND	U	0.23	0.057	0.057
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.52	0.056	0.056	ND	U	0.55	0.058	0.058	ND	U	0.56	0.06	0.06
	4-CHLOROANILINE	2.4	ND	U	0.52	0.055	0.055	ND	U	0.55	0.058	0.058	ND	U	0.56	0.06	0.06
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.21	0.059	0.059	ND	U	0.22	0.062	0.062	ND	U	0.23	0.064	0.064
	4-NITROANILINE	24	ND	U	0.42	0.05	0.05	ND	U	0.44	0.053	0.053	ND	U	0.45	0.054	0.054
	4-NITROPHENOL	NE	ND	U	0.26	0.065	0.065	ND	U	0.28	0.068	0.068	ND	U	0.28	0.069	0.069
	ACENAPHTHENE	3440	ND	U	0.21	0.05	0.05	ND	U	0.22	0.053	0.053	ND	U	0.23	0.054	0.054
	ACENAPHTHYLENE	NE	ND	U	0.21	0.051	0.051	ND	U	0.22	0.054	0.054	ND	U	0.23	0.055	0.055
	ANTHRACENE	17,200	ND	U	0.21	0.045	0.045	ND	U	0.22	0.048	0.048	0.088	J	0.23	0.049	0.049
	BENZENAMINE	85	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	ND	U	0.23	0.067	0.067
	BENZO(A)ANTHRACENE	1.48	ND	U	0.21	0.057	0.057	0.18	J	0.22	0.06	0.06	0.28		0.23	0.061	0.061
	BENZO(A)PYRENE	0.148	ND	U	0.21	0.063	0.063	**0.29**		0.22	0.066	0.066	**0.32**		0.23	0.068	0.068
	BENZO(B)FLUORANTHENE	1.48	0.13	J	0.21	0.072	0.072	0.7		0.22	0.076	0.076	0.75		0.23	0.077	0.077
	BENZO(GHI)PERYLENE	NE	ND	U	0.21	0.064	0.064	0.2	J	0.22	0.067	0.067	0.17	J	0.23	0.068	0.068
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.21	0.08	0.08	ND	U	0.22	0.084	0.084	ND	U	0.23	0.086	0.086
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.21	0.071	0.071	ND	U	0.22	0.074	0.074	ND	U	0.23	0.076	0.076
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.21	0.084	0.084	ND	U	0.22	0.088	0.088	ND	U	0.23	0.091	0.091
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.21	0.039	0.039	ND	U	0.22	0.041	0.041	ND	U	0.23	0.042	0.042
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	0.52	0.071	0.071	ND	UJ	0.55	0.074	0.074	ND	UJ	0.56	0.076	0.076
	BUTYL BENZYL PHTHALATE	260	ND	U	0.21	0.045	0.045	ND	U	0.22	0.047	0.047	ND	U	0.23	0.048	0.048

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-53					FFOR-EXC-54					FFOR-EXC-55				
	SAMPLE NO		FFOR-CF-0058					FFOR-CF-0059					FFOR-CF-0060				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.21	0.047	0.047	ND	U	0.22	0.049	0.049	ND	U	0.23	0.051	0.051
	CHRYSENE	148	0.067	J	0.21	0.053	0.053	0.29		0.22	0.056	0.056	0.41		0.23	0.057	0.057
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.21	0.062	0.062	0.086	J	0.22	0.065	0.065	0.072	J	0.23	0.067	0.067
	DIBENZOFURAN	78	ND	U	0.21	0.07	0.07	0.32		0.22	0.074	0.074	0.24		0.23	0.076	0.076
	DIETHYL PHTHALATE	48,900	ND	U	0.21	0.047	0.047	ND	U	0.22	0.049	0.049	ND	U	0.23	0.051	0.051
	DIMETHYL PHTHALATE	611,000	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061	ND	U	0.23	0.063	0.063
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.52	0.047	0.047	ND	U	0.55	0.05	0.05	ND	U	0.56	0.051	0.051
	DI-N-OCTYL PHTHALATE	610	ND	U	0.42	0.26	0.26	ND	U	0.44	0.28	0.28	ND	U	0.45	0.28	0.28
	FLUORANTHENE	2,290	ND	U	0.21	0.047	0.047	0.25		0.22	0.049	0.049	0.67		0.23	0.051	0.051
	FLUORENE	2,290	ND	U	0.21	0.061	0.061	0.13	J	0.22	0.064	0.064	0.13	J	0.23	0.066	0.066
	HEXACHLOROBENZENE	3.04	ND	U	0.21	0.057	0.057	ND	U	0.22	0.06	0.06	ND	U	0.23	0.062	0.062
	HEXACHLOROBUTADIENE	61.1	ND	U	0.21	0.05	0.05	ND	U	0.22	0.053	0.053	ND	U	0.23	0.054	0.054
	HEXACHLOROCYCLOPENTADIENE	367	ND	UJ	0.21	0.068	0.068	ND	UJ	0.22	0.071	0.071	ND	UJ	0.23	0.073	0.073
	HEXACHLOROETHANE	42.8	ND	U	0.21	0.074	0.074	ND	U	0.22	0.077	0.077	ND	U	0.23	0.079	0.079
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.21	0.069	0.069	0.26		0.22	0.073	0.073	0.21	J	0.23	0.075	0.075
	ISOPHORONE	5,120	ND	U	0.52	0.069	0.069	ND	U	0.55	0.072	0.072	ND	U	0.56	0.074	0.074
	NAPHTHALENE	43	ND	U	0.21	0.05	0.05	6		1.1	0.26	0.26	3.3		0.23	0.054	0.054
	NITROBENZENE	53.5	ND	U	0.52	0.059	0.059	ND	U	0.55	0.061	0.061	ND	U	0.56	0.063	0.063
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.21	0.079	0.079	ND	U	0.22	0.083	0.083	ND	U	0.23	0.085	0.085
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.21	0.07	0.07	ND	U	0.22	0.073	0.073	ND	UJ	0.23	0.075	0.075
	N-NITROSODIPHENYLAMINE	993	ND	U	0.21	0.061	0.061	ND	U	0.22	0.064	0.064	ND	U	0.23	0.066	0.066
	PENTACHLOROPHENOL	8.94	ND	U	0.42	0.085	0.085	ND	U	0.44	0.089	0.089	ND	U	0.45	0.092	0.092
	PHENANTHRENE	1,830	ND	U	0.21	0.038	0.038	0.052	J	0.22	0.04	0.04	0.3		0.23	0.041	0.041
	PHENOL	18,300	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	ND	U	0.23	0.066	0.066
	PYRENE	1,720	0.16	J	0.21	0.057	0.057	0.77		0.22	0.06	0.06	1		0.23	0.061	0.061
	PYRIDINE	78	ND	U	0.52	0.058	0.058	ND	U	0.55	0.061	0.061	ND	U	0.56	0.063	0.063
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-53					FFOR-EXC-54					FFOR-EXC-55				
	SAMPLE NO		FFOR-CF-0058					FFOR-CF-0059					FFOR-CF-0060				
	SAMPLE DATE		2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.026	0.026	ND	U	0.42	0.05	0.05
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.022	0.022	ND	U	0.42	0.042	0.042
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.036	0.036	ND	U	0.42	0.069	0.069
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.026	0.026	ND	U	0.42	0.05	0.05
	1,1-DICHLOROETHANE	64.5	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.015	0.015	ND	U	0.42	0.029	0.029
	1,1-DICHLOROETHENE	449	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.017	0.017	ND	U	0.42	0.033	0.033
	1,1-DICHLOROPROPENE	NE	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.033	0.033	ND	U	0.83	0.064	0.064
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.024	0.024	ND	U	0.83	0.047	0.047
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.032	0.032	ND	U	0.83	0.063	0.063
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.024	0.024	ND	U	0.42	0.046	0.046
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00137	0.000687	0.000687	12	J+	0.21	0.026	0.026	2.5		0.42	0.05	0.05
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.029	0.029	ND	U	0.83	0.057	0.057
	1,2-DIBROMOETHANE	0.588	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.024	0.024	ND	U	0.42	0.047	0.047
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.025	0.025	ND	U	0.42	0.049	0.049
	1,2-DICHLOROETHANE	7.89	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.035	0.035	ND	U	0.42	0.069	0.069
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.019	0.019	ND	U	0.42	0.037	0.037
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00137	0.000687	0.000687	3.7	J+	0.21	0.023	0.023	2.6		0.42	0.044	0.044
	1,3-DICHLOROBENZENE	NE	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.026	0.026	ND	U	0.42	0.05	0.05
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.04	0.04	ND	U	0.42	0.078	0.078
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.025	0.025	ND	U	0.42	0.049	0.049
	2,2-DICHLOROPROPANE	NE	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.023	0.023	ND	U	0.83	0.045	0.045
	2-BUTANONE	37,100	0.029		0.00687	0.00687	0.00687	0.58	J	2.1	0.098	0.098	2.4	J-	4.2	0.19	0.19
	2-CHLOROTOLUENE	1,560	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.019	0.019	ND	U	0.42	0.037	0.037
	2-HEXANONE	210	ND	U	0.00687	0.00687	0.00687	ND	U	2.1	0.1	0.1	ND	U	4.2	0.2	0.2
	4-CHLOROTOLUENE	1,600	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.062	0.062	ND	U	0.42	0.12	0.12
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00687	0.00687	0.00687	ND	U	2.1	0.083	0.083	ND	U	4.2	0.16	0.16
	ACETONE	66,600	0.124	J+	0.00687	0.00687	0.00687	0.4	J+	3.2	0.21	0.21	4.4	J+	6.2	0.41	0.41
	BENZENE	15.4	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.023	0.023	ND	U	0.42	0.046	0.046
	BROMOBENZENE	300	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.033	0.033	ND	U	0.42	0.065	0.065
	BROMOCHLOROMETHANE	160	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.098	0.098	ND	U	0.42	0.19	0.19
	BROMODICHLOROMETHANE	5.41	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.028	0.028	ND	U	0.42	0.054	0.054
	BROMOFORM	616	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.02	0.02	ND	U	0.42	0.039	0.039
	BROMOMETHANE	16.5	ND	U	0.00344	0.000687	0.000687	ND	U	0.64	0.031	0.031	ND	U	1.2	0.059	0.059
	CARBON DISULFIDE	1,530	ND	U	0.00687	0.00687	0.00687	ND	U	2.1	0.057	0.057	ND	U	4.2	0.11	0.11
	CARBON TETRACHLORIDE	10.8	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.03	0.03	ND	U	0.42	0.058	0.058
	CHLOROBENZENE	376	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.024	0.024	ND	U	0.42	0.046	0.046
	CHLOROETHANE	29,800	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.035	0.035	ND	U	0.83	0.069	0.069
	CHLOROFORM	5.86	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.075	0.075	ND	U	0.42	0.14	0.14
	CHLOROMETHANE	275	ND	UJ	0.00137	0.000687	0.000687	ND	U	0.64	0.02	0.02	ND	U	1.2	0.038	0.038
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.02	0.02	ND	U	0.42	0.038	0.038
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.027	0.027	ND	U	0.42	0.052	0.052
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.021	0.021	ND	U	0.42	0.041	0.041
	DIBROMOMETHANE	51.6	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.025	0.025	ND	U	0.42	0.048	0.048
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.052	0.052	ND	U	0.42	0.1	0.1
	ETHYLBENZENE	68.4	ND	U	0.00137	0.000687	0.000687	0.23	J+	0.21	0.023	0.023	0.27	J	0.42	0.044	0.044
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00137	0.000687	0.000687	ND	U	0.43	0.031	0.031	ND	U	0.83	0.061	0.061

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-53					FFOR-EXC-54					FFOR-EXC-55				
	SAMPLE NO	FFOR-CF-0058					FFOR-CF-0059					FFOR-CF-0060				
	SAMPLE DATE	2-Sep-14					2-Sep-14					2-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00137	0.000687	0.000687	0.29	J+	0.21	0.017	0.017	0.27	J	0.42	0.033	0.033
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.08	0.08	ND	U	0.42	0.16	0.16
	METHYLENE CHLORIDE	409	ND	U	0.00344	0.00137	0.00137	0.24	J+	0.64	0.02	0.02	0.48	J	1.2	0.039	0.039
	NAPHTHALENE	43	ND	U	0.00137	0.00137	0.00137	12	J+	0.43	0.018	0.018	5.5		0.83	0.035	0.035
	N-BUTYLBENZENE	3,900	ND	U	0.00137	0.000687	0.000687	7.7	J+	0.64	0.019	0.019	3.6		1.2	0.037	0.037
	N-PROPYLBENZENE	3,400	ND	U	0.00137	0.000687	0.000687	0.94	J+	0.21	0.022	0.022	0.66		0.42	0.042	0.042
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00137	0.000687	0.000687	2.3	J+	0.21	0.019	0.019	1.8		0.42	0.038	0.038
	SEC-BUTYLBENZENE	7,800	ND	U	0.00137	0.000687	0.000687	2.2	J+	0.21	0.021	0.021	1.2		0.42	0.04	0.04
	STYRENE	7,280	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.017	0.017	ND	U	0.42	0.032	0.032
	TERT-BUTYLBENZENE	7,800	ND	U	0.00137	0.000687	0.000687	0.067	J+	0.21	0.024	0.024	ND	U	0.42	0.046	0.046
	TETRACHLOROETHENE	7.02	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.026	0.026	ND	U	0.42	0.051	0.051
	TOLUENE	5,270	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.024	0.024	ND	U	0.42	0.046	0.046
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.024	0.024	ND	U	0.42	0.046	0.046
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.03	0.03	ND	U	0.42	0.057	0.057
	TRICHLOROETHENE	8.77	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.03	0.03	ND	U	0.42	0.058	0.058
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.022	0.022	ND	U	0.42	0.043	0.043
	VINYL ACETATE	2,560	ND	U	0.00687	0.00687	0.00687	ND	U	2.1	2.1	2.1	ND	U	4.2	4.2	4.2
	VINYL CHLORIDE	0.728	ND	U	0.00137	0.000687	0.000687	ND	U	0.21	0.018	0.018	ND	U	0.42	0.034	0.034
	XYLENES	814	ND	U	0.00137	0.00137	0.00137	0.58	J+	0.43	0.063	0.063	0.77	J	0.83	0.12	0.12

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-56					FFOR-EXC-57					FFOR-EXC-58				
	SAMPLE NO		FFOR-CF-0061					FFOR-CF-0062					FFOR-CF-0063				
	SAMPLE DATE		3-Sep-14					3-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	4.5		0.55	0.24	0.24	28		0.27	0.12	0.12	6		0.27	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	8.2	J	10	5.7	5.7	360		11	6	6	ND	U	11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.5	0.46	0.46	130	J+	3.8	0.49	0.49	ND	U	4	0.52	0.52
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	52	52	52	ND	U	54	54	54	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.21	0.061	0.061	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.62	0.62
	1,2-DICHLOROBENZENE	2,310	ND	U	0.21	0.041	0.041	ND	U	0.44	0.085	0.085	ND	UJ	2.1	0.42	0.42
	1,3-DICHLOROBENZENE	NE	ND	U	0.21	0.059	0.059	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.61	0.61
	1,4-DICHLOROBENZENE	31.7	ND	U	0.21	0.065	0.065	ND	U	0.44	0.14	0.14	ND	UJ	2.1	0.67	0.67
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.21	0.046	0.046	ND	U	0.44	0.097	0.097	ND	UJ	2.1	0.48	0.48
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.21	0.057	0.057	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.59	0.59
	2,4-DICHLOROPHENOL	183	ND	U	0.42	0.065	0.065	ND	U	0.87	0.13	0.13	ND	UJ	4.3	0.66	0.66
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.31	0.062	0.062	ND	U	0.65	0.13	0.13	ND	UJ	3.2	0.64	0.64
	2,4-DINITROPHENOL	122	ND	U	0.52	0.074	0.074	ND	U	1.1	0.15	0.15	ND	UJ	5.4	0.76	0.76
	2,4-DINITROTOLUENE	15.7	ND	U	0.52	0.077	0.077	ND	U	1.1	0.16	0.16	ND	UJ	5.4	0.79	0.79
	2,6-DINITROTOLUENE	61.1	ND	U	0.52	0.062	0.062	ND	U	1.1	0.13	0.13	ND	UJ	5.4	0.64	0.64
	2-CHLORONAPHTHALENE	6,260	ND	U	0.26	0.06	0.06	ND	U	0.55	0.12	0.12	ND	UJ	2.7	0.61	0.61
	2-CHLOROPHENOL	391	ND	U	0.21	0.065	0.065	ND	U	0.44	0.14	0.14	ND	UJ	2.1	0.67	0.67
	2-METHYLNAPHTHALENE	230	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.64	0.64
	2-METHYLPHENOL	3,100	ND	U	0.52	0.06	0.06	ND	U	1.1	0.12	0.12	ND	UJ	5.4	0.61	0.61
	2-NITROANILINE	610	ND	U	0.21	0.051	0.051	ND	U	0.44	0.11	0.11	ND	UJ	2.1	0.52	0.52
	2-NITROPHENOL	NE	ND	U	0.21	0.058	0.058	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.59	0.59
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.26	0.058	0.058	ND	U	0.55	0.12	0.12	ND	UJ	2.7	0.59	0.59
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.21	0.071	0.071	ND	U	0.44	0.15	0.15	ND	UJ	2.1	0.72	0.72
	3-NITROANILINE	NE	ND	U	0.21	0.061	0.061	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.63	0.63
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.52	0.043	0.043	ND	U	1.1	0.089	0.089	ND	UJ	5.4	0.44	0.44
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.21	0.053	0.053	ND	U	0.44	0.11	0.11	ND	UJ	2.1	0.54	0.54
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.52	0.056	0.056	ND	U	1.1	0.12	0.12	ND	UJ	5.4	0.57	0.57
	4-CHLOROANILINE	2.4	ND	U	0.52	0.056	0.056	ND	U	1.1	0.12	0.12	ND	UJ	5.4	0.57	0.57
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.21	0.059	0.059	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.61	0.61
	4-NITROANILINE	24	ND	U	0.42	0.05	0.05	ND	U	0.87	0.1	0.1	ND	UJ	4.3	0.52	0.52
	4-NITROPHENOL	NE	ND	U	0.26	0.065	0.065	ND	U	0.55	0.13	0.13	ND	UJ	2.7	0.66	0.66
	ACENAPHTHENE	3440	ND	U	0.21	0.05	0.05	ND	U	0.44	0.1	0.1	ND	UJ	2.1	0.51	0.51
	ACENAPHTHYLENE	NE	ND	U	0.21	0.051	0.051	ND	U	0.44	0.11	0.11	ND	UJ	2.1	0.52	0.52
	ANTHRACENE	17,200	ND	U	0.21	0.045	0.045	ND	U	0.44	0.094	0.094	ND	UJ	2.1	0.46	0.46
	BENZENAMINE	85	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.63	0.63
	BENZO(A)ANTHRACENE	1.48	0.13	J	0.21	0.057	0.057	0.37	J	0.44	0.12	0.12	ND	UJ	2.1	0.58	0.58
	BENZO(A)PYRENE	0.148	0.071	J	0.21	0.063	0.063	**0.4**	J	0.44	0.13	0.13	ND	UJ	2.1	0.65	0.65
	BENZO(B)FLUORANTHENE	1.48	0.096	J	0.21	0.072	0.072	0.71		0.44	0.15	0.15	ND	UJ	2.1	0.74	0.74
	BENZO(GHI)PERYLENE	NE	ND	U	0.21	0.064	0.064	0.24	J	0.44	0.13	0.13	ND	UJ	2.1	0.65	0.65
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.21	0.08	0.08	ND	U	0.44	0.17	0.17	ND	UJ	2.1	0.82	0.82
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.21	0.071	0.071	ND	U	0.44	0.15	0.15	ND	UJ	2.1	0.72	0.72
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.21	0.084	0.084	ND	U	0.44	0.17	0.17	ND	UJ	2.1	0.86	0.86
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.21	0.039	0.039	ND	U	0.44	0.081	0.081	ND	UJ	2.1	0.4	0.4
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.52	0.071	0.071	ND	U	1.1	0.15	0.15	ND	UJ	5.4	0.72	0.72
	BUTYL BENZYL PHTHALATE	260	ND	U	0.21	0.045	0.045	ND	U	0.44	0.093	0.093	ND	UJ	2.1	0.46	0.46

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-56					FFOR-EXC-57					FFOR-EXC-58				
	SAMPLE NO		FFOR-CF-0061					FFOR-CF-0062					FFOR-CF-0063				
	SAMPLE DATE		3-Sep-14					3-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.21	0.047	0.047	ND	U	0.44	0.098	0.098	ND	UJ	2.1	0.48	0.48
	CHRYSENE	148	0.092	J	0.21	0.053	0.053	0.56		0.44	0.11	0.11	ND	UJ	2.1	0.55	0.55
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.64	0.64
	DIBENZOFURAN	78	ND	U	0.21	0.07	0.07	ND	U	0.44	0.15	0.15	ND	UJ	2.1	0.72	0.72
	DIETHYL PHTHALATE	48,900	ND	U	0.21	0.047	0.047	ND	U	0.44	0.098	0.098	ND	UJ	2.1	0.48	0.48
	DIMETHYL PHTHALATE	611,000	ND	U	0.21	0.058	0.058	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.6	0.6
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.52	0.047	0.047	ND	U	1.1	0.098	0.098	ND	UJ	5.4	0.48	0.48
	DI-N-OCTYL PHTHALATE	610	ND	U	0.42	0.26	0.26	ND	U	0.87	0.55	0.55	ND	UJ	4.3	2.7	2.7
	FLUORANTHENE	2,290	ND	U	0.21	0.047	0.047	0.39	J	0.44	0.098	0.098	ND	UJ	2.1	0.48	0.48
	FLUORENE	2,290	ND	U	0.21	0.061	0.061	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.63	0.63
	HEXACHLOROBENZENE	3.04	ND	U	0.21	0.057	0.057	ND	U	0.44	0.12	0.12	ND	UJ	2.1	0.59	0.59
	HEXACHLOROBUTADIENE	61.1	ND	U	0.21	0.05	0.05	ND	U	0.44	0.1	0.1	ND	UJ	2.1	0.51	0.51
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.21	0.068	0.068	ND	U	0.44	0.14	0.14	ND	UJ	2.1	0.69	0.69
	HEXACHLOROETHANE	42.8	ND	U	0.21	0.074	0.074	ND	U	0.44	0.15	0.15	ND	UJ	2.1	0.75	0.75
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.21	0.07	0.07	0.24	J	0.44	0.14	0.14	ND	UJ	2.1	0.71	0.71
	ISOPHORONE	5,120	ND	U	0.52	0.069	0.069	ND	U	1.1	0.14	0.14	ND	UJ	5.4	0.7	0.7
	NAPHTHALENE	43	ND	U	0.21	0.05	0.05	ND	U	0.44	0.1	0.1	ND	UJ	2.1	0.51	0.51
	NITROBENZENE	53.5	ND	U	0.52	0.059	0.059	ND	U	1.1	0.12	0.12	ND	UJ	5.4	0.6	0.6
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.21	0.079	0.079	ND	U	0.44	0.16	0.16	ND	UJ	2.1	0.81	0.81
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.21	0.07	0.07	ND	U	0.44	0.14	0.14	ND	UJ	2.1	0.71	0.71
	N-NITROSODIPHENYLAMINE	993	ND	U	0.21	0.061	0.061	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.63	0.63
	PENTACHLOROPHENOL	8.94	ND	U	0.42	0.085	0.085	ND	U	0.87	0.18	0.18	ND	UJ	4.3	0.87	0.87
	PHENANTHRENE	1,830	ND	U	0.21	0.038	0.038	0.22	J	0.44	0.079	0.079	ND	UJ	2.1	0.39	0.39
	PHENOL	18,300	ND	U	0.21	0.062	0.062	ND	U	0.44	0.13	0.13	ND	UJ	2.1	0.63	0.63
	PYRENE	1,720	0.071	J	0.21	0.057	0.057	0.46		0.44	0.12	0.12	ND	UJ	2.1	0.58	0.58
	PYRIDINE	78	ND	U	0.52	0.058	0.058	ND	U	1.1	0.12	0.12	ND	UJ	5.4	0.59	0.59
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-56					FFOR-EXC-57					FFOR-EXC-58				
	SAMPLE NO		FFOR-CF-0061					FFOR-CF-0062					FFOR-CF-0063				
	SAMPLE DATE		3-Sep-14					3-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0045	0.0045	ND	U	0.00074	0.00037	0.00037
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0038	0.0038	ND	U	0.00074	0.00037	0.00037
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0063	0.0063	ND	U	0.00074	0.00037	0.00037
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0046	0.0046	ND	U	0.00074	0.00037	0.00037
	1,1-DICHLOROETHANE	64.5	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0026	0.0026	ND	U	0.00074	0.00037	0.00037
	1,1-DICHLOROETHENE	449	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.003	0.003	ND	U	0.00074	0.00037	0.00037
	1,1-DICHLOROPROPENE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0059	0.0059	ND	U	0.00074	0.00037	0.00037
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0057	0.0057	ND	U	0.00074	0.00037	0.00037
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0046	0.0046	ND	U	0.00074	0.00037	0.00037
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0052	0.0052	ND	U	0.00074	0.00037	0.00037
	1,2-DIBROMOETHANE	0.588	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0043	0.0043	ND	U	0.00074	0.00037	0.00037
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0045	0.0045	ND	U	0.00074	0.00037	0.00037
	1,2-DICHLOROETHANE	7.89	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0062	0.0062	ND	U	0.00074	0.00037	0.00037
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0034	0.0034	ND	U	0.00074	0.00037	0.00037
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0013	0.000651	0.000651	0.36	J+	0.038	0.004	0.004	ND	U	0.00074	0.00037	0.00037
	1,3-DICHLOROBENZENE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0045	0.0045	ND	U	0.00074	0.00037	0.00037
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0071	0.0071	ND	U	0.00074	0.00037	0.00037
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0045	0.0045	ND	U	0.00074	0.00037	0.00037
	2,2-DICHLOROPROPANE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0041	0.0041	ND	U	0.00074	0.00037	0.00037
	2-BUTANONE	37,100	0.00978		0.00651	0.00651	0.00651	ND	U	0.38	0.017	0.017	ND	U	0.0037	0.0037	0.0037
	2-CHLOROTOLUENE	1,560	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0033	0.0033	ND	U	0.00074	0.00037	0.00037
	2-HEXANONE	210	ND	U	0.00651	0.00651	0.00651	ND	U	0.38	0.018	0.018	ND	U	0.0037	0.0037	0.0037
	4-CHLOROTOLUENE	1,600	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.011	0.011	ND	U	0.00074	0.00037	0.00037
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00651	0.00651	0.00651	ND	U	0.38	0.015	0.015	ND	U	0.0037	0.0037	0.0037
	ACETONE	66,600	0.042		0.00651	0.00651	0.00651	ND	U	0.57	0.037	0.037	0.00417	J-	0.0037	0.0037	0.0037
	BENZENE	15.4	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0041	0.0041	ND	U	0.00074	0.00037	0.00037
	BROMOBENZENE	300	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0059	0.0059	ND	U	0.00074	0.00037	0.00037
	BROMOCHLOROMETHANE	160	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.017	0.017	ND	U	0.00074	0.00037	0.00037
	BROMODICHLOROMETHANE	5.41	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0049	0.0049	ND	U	0.00074	0.00037	0.00037
	BROMOFORM	616	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0035	0.0035	ND	U	0.00074	0.00037	0.00037
	BROMOMETHANE	16.5	ND	U	0.00326	0.000651	0.000651	ND	U	0.11	0.0054	0.0054	ND	U	0.00185	0.00037	0.00037
	CARBON DISULFIDE	1,530	ND	U	0.00651	0.00651	0.00651	ND	U	0.38	0.01	0.01	ND	U	0.0037	0.0037	0.0037
	CARBON TETRACHLORIDE	10.8	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0053	0.0053	ND	U	0.00074	0.00037	0.00037
	CHLOROBENZENE	376	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	CHLOROETHANE	29,800	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0063	0.0063	ND	U	0.00074	0.00037	0.00037
	CHLOROFORM	5.86	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.013	0.013	ND	U	0.00074	0.00037	0.00037
	CHLOROMETHANE	275	ND	UJ	0.0013	0.000651	0.000651	ND	UJ	0.11	0.0035	0.0035	ND	UJ	0.00074	0.00037	0.00037
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0035	0.0035	ND	U	0.00074	0.00037	0.00037
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0047	0.0047	ND	U	0.00074	0.00037	0.00037
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0037	0.0037	ND	U	0.00074	0.00037	0.00037
	DIBROMOMETHANE	51.6	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0043	0.0043	ND	U	0.00074	0.00037	0.00037
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0092	0.0092	ND	U	0.00074	0.00037	0.00037
	ETHYLBENZENE	68.4	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.004	0.004	ND	U	0.00074	0.00037	0.00037
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0013	0.000651	0.000651	ND	U	0.076	0.0056	0.0056	ND	U	0.00074	0.00037	0.00037

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-56					FFOR-EXC-57					FFOR-EXC-58				
	SAMPLE NO	FFOR-CF-0061					FFOR-CF-0062					FFOR-CF-0063				
	SAMPLE DATE	3-Sep-14					3-Sep-14					4-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.003	0.003	ND	U	0.00074	0.00037	0.00037
	METHYL TERT-BUTYL ETHER	901	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.014	0.014	ND	U	0.00074	0.00037	0.00037
	METHYLENE CHLORIDE	409	ND	U	0.00326	0.0013	0.0013	ND	UJ	0.11	0.0036	0.0036	ND	U	0.00185	0.00074	0.00074
	NAPHTHALENE	43	ND	U	0.0013	0.0013	0.0013	0.27	J+	0.076	0.0031	0.0031	ND	U	0.00074	0.00074	0.00074
	N-BUTYLBENZENE	3,900	ND	U	0.0013	0.000651	0.000651	ND	U	0.11	0.0033	0.0033	ND	U	0.00074	0.00037	0.00037
	N-PROPYLBENZENE	3,400	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0038	0.0038	ND	U	0.00074	0.00037	0.00037
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0034	0.0034	ND	U	0.00074	0.00037	0.00037
	SEC-BUTYLBENZENE	7,800	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0037	0.0037	ND	U	0.00074	0.00037	0.00037
	STYRENE	7,280	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.003	0.003	ND	U	0.00074	0.00037	0.00037
	TERT-BUTYLBENZENE	7,800	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	TETRACHLOROETHENE	7.02	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0046	0.0046	ND	U	0.00074	0.00037	0.00037
	TOLUENE	5,270	0.0008	J	0.0013	0.000651	0.000651	ND	U	0.038	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0042	0.0042	ND	U	0.00074	0.00037	0.00037
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0052	0.0052	ND	U	0.00074	0.00037	0.00037
	TRICHLOROETHENE	8.77	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0052	0.0052	ND	U	0.00074	0.00037	0.00037
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0039	0.0039	ND	U	0.00074	0.00037	0.00037
	VINYL ACETATE	2,560	ND	U	0.00651	0.00651	0.00651	ND	U	0.38	0.38	0.38	ND	U	0.0037	0.0037	0.0037
	VINYL CHLORIDE	0.728	ND	U	0.0013	0.000651	0.000651	ND	U	0.038	0.0031	0.0031	ND	U	0.00074	0.00037	0.00037
	XYLENES	814	ND	U	0.0013	0.0013	0.0013	ND	U	0.076	0.011	0.011	ND	U	0.00074	0.00074	0.00074

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-59					FFOR-EXC-60					FFOR-EXC-60				
	SAMPLE NO		FFOR-CF-0064					FFOR-CF-0065					FFOR-CF-0066				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					FD				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	7.9		0.27	0.12	0.12	24		0.27	0.12	0.12	20		0.27	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6	6	13		11	6	6	6.3	J	11	6	6
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3	0.4	0.4	1.2	J	3.6	0.47	0.47	0.9	J	3.9	0.5	0.5
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	54	54	54	ND	U	54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.61	0.61	ND	U	0.42	0.12	0.12
	1,2-DICHLOROBENZENE	2,310	ND	UJ	2.1	0.42	0.42	ND	UJ	2.1	0.41	0.41	ND	U	0.42	0.082	0.082
	1,3-DICHLOROBENZENE	NE	ND	UJ	2.1	0.61	0.61	ND	UJ	2.1	0.6	0.6	ND	U	0.42	0.12	0.12
	1,4-DICHLOROBENZENE	31.7	ND	UJ	2.1	0.66	0.66	ND	UJ	2.1	0.66	0.66	ND	U	0.42	0.13	0.13
	2,4,5-TRICHLOROPHENOL	6,110	ND	UJ	2.1	0.47	0.47	ND	UJ	2.1	0.47	0.47	ND	U	0.42	0.093	0.093
	2,4,6-TRICHLOROPHENOL	61.1	ND	UJ	2.1	0.59	0.59	ND	UJ	2.1	0.58	0.58	ND	U	0.42	0.11	0.11
	2,4-DICHLOROPHENOL	183	ND	UJ	4.3	0.66	0.66	ND	UJ	4.2	0.65	0.65	ND	U	0.84	0.13	0.13
	2,4-DIMETHYLPHENOL	1,220	ND	UJ	3.2	0.64	0.64	ND	UJ	3.2	0.63	0.63	ND	U	0.63	0.13	0.13
	2,4-DINITROPHENOL	122	ND	UJ	5.4	0.75	0.75	ND	UJ	5.3	0.75	0.75	ND	U	1.1	0.15	0.15
	2,4-DINITROTOLUENE	15.7	ND	UJ	5.4	0.79	0.79	ND	UJ	5.3	0.78	0.78	ND	U	1.1	0.15	0.15
	2,6-DINITROTOLUENE	61.1	ND	UJ	5.4	0.63	0.63	ND	UJ	5.3	0.63	0.63	ND	U	1.1	0.12	0.12
	2-CHLORONAPHTHALENE	6,260	ND	UJ	2.7	0.61	0.61	ND	UJ	2.6	0.61	0.61	ND	U	0.53	0.12	0.12
	2-CHLOROPHENOL	391	ND	UJ	2.1	0.67	0.67	ND	UJ	2.1	0.66	0.66	ND	U	0.42	0.13	0.13
	2-METHYLNAPHTHALENE	230	ND	UJ	2.1	0.64	0.64	ND	UJ	2.1	0.63	0.63	ND	U	0.42	0.12	0.12
	2-METHYLPHENOL	3,100	ND	UJ	5.4	0.61	0.61	ND	UJ	5.3	0.61	0.61	ND	U	1.1	0.12	0.12
	2-NITROANILINE	610	ND	UJ	2.1	0.52	0.52	ND	UJ	2.1	0.51	0.51	ND	U	0.42	0.1	0.1
	2-NITROPHENOL	NE	ND	UJ	2.1	0.59	0.59	ND	UJ	2.1	0.58	0.58	ND	U	0.42	0.12	0.12
	3,3'-DICHLOROBENZIDINE	10.8	ND	UJ	2.7	0.59	0.59	ND	UJ	2.6	0.59	0.59	ND	U	0.53	0.12	0.12
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	UJ	2.1	0.72	0.72	ND	UJ	2.1	0.71	0.71	ND	U	0.42	0.14	0.14
	3-NITROANILINE	NE	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.62	0.62	ND	U	0.42	0.12	0.12
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	UJ	5.4	0.44	0.44	ND	UJ	5.3	0.43	0.43	ND	U	1.1	0.086	0.086
	4-BROMOPHENYL PHENYL ETHER	NE	ND	UJ	2.1	0.54	0.54	ND	UJ	2.1	0.53	0.53	ND	U	0.42	0.11	0.11
	4-CHLORO-3-METHYLPHENOL	6,100	ND	UJ	5.4	0.57	0.57	ND	UJ	5.3	0.56	0.56	ND	U	1.1	0.11	0.11
	4-CHLOROANILINE	2.4	ND	UJ	5.4	0.57	0.57	ND	UJ	5.3	0.56	0.56	ND	U	1.1	0.11	0.11
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	UJ	2.1	0.61	0.61	ND	UJ	2.1	0.6	0.6	ND	U	0.42	0.12	0.12
	4-NITROANILINE	24	ND	UJ	4.3	0.51	0.51	ND	UJ	4.2	0.51	0.51	ND	U	0.84	0.1	0.1
	4-NITROPHENOL	NE	ND	UJ	2.7	0.66	0.66	ND	UJ	2.6	0.65	0.65	ND	U	0.53	0.13	0.13
	ACENAPHTHENE	3440	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.51	0.51	ND	U	0.42	0.1	0.1
	ACENAPHTHYLENE	NE	ND	UJ	2.1	0.52	0.52	ND	UJ	2.1	0.52	0.52	ND	U	0.42	0.1	0.1
	ANTHRACENE	17,200	ND	UJ	2.1	0.46	0.46	ND	UJ	2.1	0.46	0.46	ND	U	0.42	0.091	0.091
	BENZENAMINE	85	ND	UJ	2.1	0.63	0.63	ND	UJ	2.1	0.63	0.63	ND	U	0.42	0.12	0.12
	BENZO(A)ANTHRACENE	1.48	ND	UJ	2.1	0.58	0.58	ND	UJ	2.1	0.58	0.58	ND	U	0.42	0.11	0.11
	BENZO(A)PYRENE	0.148	ND	UJ	2.1	0.64	0.64	ND	UJ	2.1	0.64	0.64	ND	U	0.42	0.13	0.13
	BENZO(B)FLUORANTHENE	1.48	ND	UJ	2.1	0.73	0.73	ND	UJ	2.1	0.73	0.73	0.18	J	0.42	0.14	0.14
	BENZO(GHI)PERYLENE	NE	ND	UJ	2.1	0.65	0.65	ND	UJ	2.1	0.64	0.64	ND	U	0.42	0.13	0.13
	BENZO(K)FLUORANTHENE	14.8	ND	UJ	2.1	0.81	0.81	ND	UJ	2.1	0.81	0.81	ND	U	0.42	0.16	0.16
	BIS(2-CHLOROETHOXY)METHANE	180	ND	UJ	2.1	0.72	0.72	ND	UJ	2.1	0.71	0.71	ND	U	0.42	0.14	0.14
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	UJ	2.1	0.86	0.86	ND	UJ	2.1	0.85	0.85	ND	U	0.42	0.17	0.17
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	UJ	2.1	0.4	0.4	ND	UJ	2.1	0.39	0.39	ND	U	0.42	0.078	0.078
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	UJ	5.4	0.72	0.72	ND	UJ	5.3	0.71	0.71	ND	U	1.1	0.14	0.14
	BUTYL BENZYL PHTHALATE	260	ND	UJ	2.1	0.46	0.46	ND	UJ	2.1	0.45	0.45	ND	U	0.42	0.089	0.089

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-59					FFOR-EXC-60					FFOR-EXC-60				
	SAMPLE NO		FFOR-CF-0064					FFOR-CF-0065					FFOR-CF-0066				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					FD				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	UJ	2.1	0.48	0.48	ND	UJ	2.1	0.48	0.48	ND	U	0.42	0.094	0.094
	CHRYSENE	148	ND	UJ	2.1	0.54	0.54	0.54	J-	2.1	0.54	0.54	0.15	J	0.42	0.11	0.11
	DIBENZO(A,H)ANTHRACENE	0.148	ND	UJ	2.1	0.64	0.64	ND	UJ	2.1	0.63	0.63	ND	U	0.42	0.12	0.12
	DIBENZOFURAN	78	ND	UJ	2.1	0.72	0.72	ND	UJ	2.1	0.71	0.71	ND	U	0.42	0.14	0.14
	DIETHYL PHTHALATE	48,900	ND	UJ	2.1	0.48	0.48	ND	UJ	2.1	0.48	0.48	ND	U	0.42	0.094	0.094
	DIMETHYL PHTHALATE	611,000	ND	UJ	2.1	0.59	0.59	ND	UJ	2.1	0.59	0.59	ND	U	0.42	0.12	0.12
	DI-N-BUTYL PHTHALATE	6,110	ND	UJ	5.4	0.48	0.48	ND	UJ	5.3	0.48	0.48	ND	U	1.1	0.095	0.095
	DI-N-OCTYL PHTHALATE	610	ND	UJ	4.3	2.7	2.7	ND	UJ	4.2	2.7	2.7	ND	U	0.84	0.53	0.53
	FLUORANTHENE	2,290	ND	UJ	2.1	0.48	0.48	ND	UJ	2.1	0.48	0.48	ND	U	0.42	0.094	0.094
	FLUORENE	2,290	ND	UJ	2.1	0.63	0.63	ND	UJ	2.1	0.62	0.62	ND	U	0.42	0.12	0.12
	HEXACHLOROBENZENE	3.04	ND	UJ	2.1	0.58	0.58	ND	UJ	2.1	0.58	0.58	ND	U	0.42	0.11	0.11
	HEXACHLOROBUTADIENE	61.1	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.51	0.51	ND	U	0.42	0.1	0.1
	HEXACHLOROCYCLOPENTADIENE	367	ND	UJ	2.1	0.69	0.69	ND	UJ	2.1	0.69	0.69	ND	U	0.42	0.14	0.14
	HEXACHLOROETHANE	42.8	ND	UJ	2.1	0.75	0.75	ND	UJ	2.1	0.74	0.74	ND	U	0.42	0.15	0.15
	INDENO(1,2,3-CD)PYRENE	1.48	ND	UJ	2.1	0.71	0.71	ND	UJ	2.1	0.7	0.7	ND	U	0.42	0.14	0.14
	ISOPHORONE	5,120	ND	UJ	5.4	0.7	0.7	ND	UJ	5.3	0.7	0.7	ND	U	1.1	0.14	0.14
	NAPHTHALENE	43	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.5	0.5	ND	U	0.42	0.1	0.1
	NITROBENZENE	53.5	ND	UJ	5.4	0.6	0.6	ND	UJ	5.3	0.59	0.59	ND	U	1.1	0.12	0.12
	N-NITROSODIMETHYLAMINE	0.0226	ND	UJ	2.1	0.81	0.81	ND	UJ	2.1	0.8	0.8	ND	U	0.42	0.16	0.16
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	UJ	2.1	0.71	0.71	ND	UJ	2.1	0.7	0.7	ND	U	0.42	0.14	0.14
	N-NITROSODIPHENYLAMINE	993	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.62	0.62	ND	U	0.42	0.12	0.12
	PENTACHLOROPHENOL	8.94	ND	UJ	4.3	0.87	0.87	ND	UJ	4.2	0.86	0.86	ND	U	0.84	0.17	0.17
	PHENANTHRENE	1,830	ND	UJ	2.1	0.39	0.39	ND	UJ	2.1	0.38	0.38	ND	U	0.42	0.076	0.076
	PHENOL	18,300	ND	UJ	2.1	0.63	0.63	ND	UJ	2.1	0.62	0.62	ND	U	0.42	0.12	0.12
	PYRENE	1,720	ND	UJ	2.1	0.58	0.58	ND	UJ	2.1	0.57	0.57	ND	U	0.42	0.11	0.11
	PYRIDINE	78	ND	UJ	5.4	0.59	0.59	ND	UJ	5.3	0.59	0.59	ND	U	1.1	0.12	0.12
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-59					FFOR-EXC-60					FFOR-EXC-60				
	SAMPLE NO		FFOR-CF-0064					FFOR-CF-0065					FFOR-CF-0066				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					FD				
	SAMPLE DEPTH		5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1-DICHLOROETHANE	64.5	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1-DICHLOROETHENE	449	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,1-DICHLOROPROPENE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2-DIBROMOETHANE	0.588	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2-DICHLOROETHANE	7.89	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,3-DICHLOROBENZENE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	2,2-DICHLOROPROPANE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	2-BUTANONE	37,100	ND	U	0.00305	0.00305	0.00305	ND	U	0.00362	0.00362	0.00362	ND	U	0.00386	0.00386	0.00386
	2-CHLOROTOLUENE	1,560	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	2-HEXANONE	210	ND	U	0.00305	0.00305	0.00305	ND	U	0.00362	0.00362	0.00362	ND	U	0.00386	0.00386	0.00386
	4-CHLOROTOLUENE	1,600	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00305	0.00305	0.00305	ND	U	0.00362	0.00362	0.00362	ND	U	0.00386	0.00386	0.00386
	ACETONE	66,600	0.00412	J-	0.00305	0.00305	0.00305	0.005	J-	0.00362	0.00362	0.00362	0.00736	J-	0.00386	0.00386	0.00386
	BENZENE	15.4	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	BROMOBENZENE	300	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	BROMOCHLOROMETHANE	160	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	BROMODICHLOROMETHANE	5.41	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	BROMOFORM	616	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	BROMOMETHANE	16.5	ND	U	0.00152	0.000305	0.000305	ND	U	0.00181	0.000362	0.000362	ND	U	0.00193	0.000386	0.000386
	CARBON DISULFIDE	1,530	ND	U	0.00305	0.00305	0.00305	ND	U	0.00362	0.00362	0.00362	ND	U	0.00386	0.00386	0.00386
	CARBON TETRACHLORIDE	10.8	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	CHLOROBENZENE	376	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	CHLOROETHANE	29,800	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	CHLOROFORM	5.86	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	CHLOROMETHANE	275	ND	UJ	0.00061	0.000305	0.000305	ND	UJ	0.000725	0.000362	0.000362	ND	UJ	0.000772	0.000386	0.000386
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	DIBROMOMETHANE	51.6	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	ETHYLBENZENE	68.4	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-59					FFOR-EXC-60					FFOR-EXC-60				
	SAMPLE NO	FFOR-CF-0064					FFOR-CF-0065					FFOR-CF-0066				
	SAMPLE DATE	4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE	REG					REG					FD				
	SAMPLE DEPTH	5 FT					5 FT					5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	METHYLENE CHLORIDE	409	ND	U	0.00152	0.00061	0.00061	ND	U	0.00181	0.000725	0.000725	ND	U	0.00193	0.000772	0.000772
	NAPHTHALENE	43	ND	U	0.00061	0.00061	0.00061	ND	U	0.000725	0.000725	0.000725	ND	U	0.000772	0.000772	0.000772
	N-BUTYLBENZENE	3,900	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	N-PROPYLBENZENE	3,400	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	SEC-BUTYLBENZENE	7,800	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	STYRENE	7,280	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TERT-BUTYLBENZENE	7,800	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TETRACHLOROETHENE	7.02	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TOLUENE	5,270	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TRICHLOROETHENE	8.77	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	VINYL ACETATE	2,560	ND	U	0.00305	0.00305	0.00305	ND	U	0.00362	0.00362	0.00362	ND	U	0.00386	0.00386	0.00386
	VINYL CHLORIDE	0.728	ND	U	0.00061	0.000305	0.000305	ND	U	0.000725	0.000362	0.000362	ND	U	0.000772	0.000386	0.000386
	XYLENES	814	ND	U	0.00061	0.00061	0.00061	ND	U	0.000725	0.000725	0.000725	ND	U	0.000772	0.000772	0.000772

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-61					FFOR-EXC-62					FFOR-EXC-63				
	SAMPLE NO		FFOR-CF-0067					FFOR-CF-0068					FFOR-CF-0069				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	6.6		0.54	0.24	0.24	4.2		0.27	0.12	0.12	46		0.27	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	10	5.8	5.8	ND	U	11	6	6	240		11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.8	0.5	0.5	ND	U	3.7	0.48	0.48	1.9	J	3.6	0.47	0.47
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	52	52	52	ND	U	54	54	54	230		54	54	54
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.61	0.61	ND	UJ	2.1	0.62	0.62
	1,2-DICHLOROBENZENE	2,310	ND	U	0.41	0.081	0.081	ND	UJ	2.1	0.41	0.41	ND	UJ	2.1	0.42	0.42
	1,3-DICHLOROBENZENE	NE	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.6	0.6	ND	UJ	2.1	0.6	0.6
	1,4-DICHLOROBENZENE	31.7	ND	U	0.41	0.13	0.13	ND	UJ	2.1	0.65	0.65	ND	UJ	2.1	0.66	0.66
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.41	0.092	0.092	ND	UJ	2.1	0.47	0.47	ND	UJ	2.1	0.47	0.47
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.41	0.11	0.11	ND	UJ	2.1	0.58	0.58	ND	UJ	2.1	0.58	0.58
	2,4-DICHLOROPHENOL	183	ND	U	0.83	0.13	0.13	ND	UJ	4.2	0.65	0.65	ND	UJ	4.3	0.66	0.66
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.62	0.12	0.12	ND	UJ	3.2	0.63	0.63	ND	UJ	3.2	0.64	0.64
	2,4-DINITROPHENOL	122	ND	U	1	0.15	0.15	ND	UJ	5.3	0.74	0.74	ND	UJ	5.3	0.75	0.75
	2,4-DINITROTOLUENE	15.7	ND	U	1	0.15	0.15	ND	UJ	5.3	0.78	0.78	ND	UJ	5.3	0.79	0.79
	2,6-DINITROTOLUENE	61.1	ND	U	1	0.12	0.12	ND	UJ	5.3	0.63	0.63	ND	UJ	5.3	0.63	0.63
	2-CHLORONAPHTHALENE	6,260	ND	U	0.52	0.12	0.12	ND	UJ	2.6	0.6	0.6	ND	UJ	2.7	0.61	0.61
	2-CHLOROPHENOL	391	ND	U	0.41	0.13	0.13	ND	UJ	2.1	0.66	0.66	ND	UJ	2.1	0.66	0.66
	2-METHYLNAPHTHALENE	230	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.63	0.63	ND	UJ	2.1	0.63	0.63
	2-METHYLPHENOL	3,100	ND	U	1	0.12	0.12	ND	UJ	5.3	0.6	0.6	ND	UJ	5.3	0.61	0.61
	2-NITROANILINE	610	ND	U	0.41	0.1	0.1	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.51	0.51
	2-NITROPHENOL	NE	ND	U	0.41	0.11	0.11	ND	UJ	2.1	0.58	0.58	ND	UJ	2.1	0.59	0.59
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.52	0.11	0.11	ND	UJ	2.6	0.58	0.58	ND	UJ	2.7	0.59	0.59
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.41	0.14	0.14	ND	UJ	2.1	0.71	0.71	ND	UJ	2.1	0.72	0.72
	3-NITROANILINE	NE	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.61	0.61	ND	UJ	2.1	0.62	0.62
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1	0.085	0.085	ND	UJ	5.3	0.43	0.43	ND	UJ	5.3	0.44	0.44
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.41	0.1	0.1	ND	UJ	2.1	0.53	0.53	ND	UJ	2.1	0.54	0.54
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1	0.11	0.11	ND	UJ	5.3	0.56	0.56	ND	UJ	5.3	0.56	0.56
	4-CHLOROANILINE	2.4	ND	U	1	0.11	0.11	ND	UJ	5.3	0.56	0.56	ND	UJ	5.3	0.56	0.56
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.6	0.6	ND	UJ	2.1	0.6	0.6
	4-NITROANILINE	24	ND	U	0.83	0.099	0.099	ND	UJ	4.2	0.51	0.51	ND	UJ	4.3	0.51	0.51
	4-NITROPHENOL	NE	ND	U	0.52	0.13	0.13	ND	UJ	2.6	0.65	0.65	ND	UJ	2.7	0.66	0.66
	ACENAPHTHENE	3440	ND	U	0.41	0.099	0.099	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.51	0.51
	ACENAPHTHYLENE	NE	ND	U	0.41	0.1	0.1	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.52	0.52
	ANTHRACENE	17,200	ND	U	0.41	0.089	0.089	ND	UJ	2.1	0.46	0.46	ND	UJ	2.1	0.46	0.46
	BENZENAMINE	85	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.63	0.63
	BENZO(A)ANTHRACENE	1.48	0.23	J	0.41	0.11	0.11	ND	UJ	2.1	0.57	0.57	**1.9**	J-	2.1	0.58	0.58
	BENZO(A)PYRENE	0.148	**0.15**	J	0.41	0.12	0.12	ND	UJ	2.1	0.64	0.64	**8.6**	J-	2.1	0.64	0.64
	BENZO(B)FLUORANTHENE	1.48	0.23	J	0.41	0.14	0.14	ND	UJ	2.1	0.72	0.72	**14**	J-	2.1	0.73	0.73
	BENZO(GHI)PERYLENE	NE	0.15	J	0.41	0.13	0.13	0.79	J-	2.1	0.64	0.64	3.8	J-	2.1	0.65	0.65
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.41	0.16	0.16	ND	UJ	2.1	0.8	0.8	4.9	J-	2.1	0.81	0.81
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.41	0.14	0.14	ND	UJ	2.1	0.71	0.71	ND	UJ	2.1	0.72	0.72
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.41	0.17	0.17	ND	UJ	2.1	0.85	0.85	ND	UJ	2.1	0.86	0.86
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.41	0.077	0.077	ND	UJ	2.1	0.39	0.39	ND	UJ	2.1	0.4	0.4
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1	0.14	0.14	ND	UJ	5.3	0.71	0.71	ND	UJ	5.3	0.72	0.72
	BUTYL BENZYL PHTHALATE	260	ND	U	0.41	0.088	0.088	ND	UJ	2.1	0.45	0.45	ND	UJ	2.1	0.45	0.45

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-61					FFOR-EXC-62					FFOR-EXC-63				
	SAMPLE NO		FFOR-CF-0067					FFOR-CF-0068					FFOR-CF-0069				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.41	0.093	0.093	ND	UJ	2.1	0.47	0.47	ND	UJ	2.1	0.48	0.48
	CHRYSENE	148	0.19	J	0.41	0.11	0.11	ND	UJ	2.1	0.54	0.54	3.6	J-	2.1	0.54	0.54
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.63	0.63	**1.7**	J-	2.1	0.63	0.63
	DIBENZOFURAN	78	ND	U	0.41	0.14	0.14	ND	UJ	2.1	0.71	0.71	ND	UJ	2.1	0.72	0.72
	DIETHYL PHTHALATE	48,900	ND	U	0.41	0.093	0.093	ND	UJ	2.1	0.47	0.47	ND	UJ	2.1	0.48	0.48
	DIMETHYL PHTHALATE	611,000	ND	U	0.41	0.11	0.11	ND	UJ	2.1	0.59	0.59	ND	UJ	2.1	0.59	0.59
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1	0.093	0.093	ND	UJ	5.3	0.47	0.47	ND	UJ	5.3	0.48	0.48
	DI-N-OCTYL PHTHALATE	610	ND	U	0.83	0.52	0.52	ND	UJ	4.2	2.6	2.6	ND	UJ	4.3	2.7	2.7
	FLUORANTHENE	2,290	0.29	J	0.41	0.093	0.093	ND	UJ	2.1	0.47	0.47	0.8	J-	2.1	0.48	0.48
	FLUORENE	2,290	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.62	0.62
	HEXACHLOROBENZENE	3.04	ND	U	0.41	0.11	0.11	ND	UJ	2.1	0.57	0.57	ND	UJ	2.1	0.58	0.58
	HEXACHLOROBUTADIENE	61.1	ND	U	0.41	0.099	0.099	ND	UJ	2.1	0.51	0.51	ND	UJ	2.1	0.51	0.51
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.41	0.13	0.13	ND	UJ	2.1	0.68	0.68	ND	UJ	2.1	0.69	0.69
	HEXACHLOROETHANE	42.8	ND	U	0.41	0.15	0.15	ND	UJ	2.1	0.74	0.74	ND	UJ	2.1	0.75	0.75
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.41	0.14	0.14	ND	UJ	2.1	0.7	0.7	**4.8**	J-	2.1	0.71	0.71
	ISOPHORONE	5,120	ND	U	1	0.14	0.14	ND	UJ	5.3	0.69	0.69	ND	UJ	5.3	0.7	0.7
	NAPHTHALENE	43	ND	U	0.41	0.098	0.098	ND	UJ	2.1	0.5	0.5	ND	UJ	2.1	0.51	0.51
	NITROBENZENE	53.5	ND	U	1	0.12	0.12	ND	UJ	5.3	0.59	0.59	ND	UJ	5.3	0.6	0.6
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.41	0.16	0.16	ND	UJ	2.1	0.8	0.8	ND	UJ	2.1	0.81	0.81
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.41	0.14	0.14	ND	UJ	2.1	0.7	0.7	ND	UJ	2.1	0.71	0.71
	N-NITROSODIPHENYLAMINE	993	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.62	0.62
	PENTACHLOROPHENOL	8.94	ND	U	0.83	0.17	0.17	ND	UJ	4.2	0.85	0.85	ND	UJ	4.3	0.87	0.87
	PHENANTHRENE	1,830	0.23	J	0.41	0.075	0.075	ND	UJ	2.1	0.38	0.38	ND	UJ	2.1	0.39	0.39
	PHENOL	18,300	ND	U	0.41	0.12	0.12	ND	UJ	2.1	0.62	0.62	ND	UJ	2.1	0.63	0.63
	PYRENE	1,720	0.28	J	0.41	0.11	0.11	0.81	J-	2.1	0.57	0.57	24	J-	2.1	0.58	0.58
	PYRIDINE	78	ND	U	1	0.11	0.11	ND	UJ	5.3	0.58	0.58	ND	UJ	5.3	0.59	0.59
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-61					FFOR-EXC-62					FFOR-EXC-63				
	SAMPLE NO		FFOR-CF-0067					FFOR-CF-0068					FFOR-CF-0069				
	SAMPLE DATE		4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0044	0.0044
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0037	0.0037
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.006	0.006
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0044	0.0044
	1,1-DICHLOROETHANE	64.5	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0025	0.0025
	1,1-DICHLOROETHENE	449	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0029	0.0029
	1,1-DICHLOROPROPENE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.0056	0.0056
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.0041	0.0041
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.0055	0.0055
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0044	0.0044
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.005	0.005
	1,2-DIBROMOETHANE	0.588	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0042	0.0042
	1,2-DICHLOROBENZENE	2,310	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0043	0.0043
	1,2-DICHLOROETHANE	7.89	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.006	0.006
	1,2-DICHLOROPROPANE	15.2	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0032	0.0032
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0039	0.0039
	1,3-DICHLOROBENZENE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0044	0.0044
	1,3-DICHLOROPROPANE	1,600	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0068	0.0068
	1,4-DICHLOROBENZENE	31.7	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0043	0.0043
	2,2-DICHLOROPROPANE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.0039	0.0039
	2-BUTANONE	37,100	ND	U	0.00382	0.00382	0.00382	ND	U	0.00369	0.00369	0.00369	ND	U	0.36	0.017	0.017
	2-CHLOROTOLUENE	1,560	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0032	0.0032
	2-HEXANONE	210	ND	U	0.00382	0.00382	0.00382	ND	U	0.00369	0.00369	0.00369	ND	U	0.36	0.017	0.017
	4-CHLOROTOLUENE	1,600	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.011	0.011
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00382	0.00382	0.00382	ND	U	0.00369	0.00369	0.00369	ND	U	0.36	0.014	0.014
	ACETONE	66,600	0.00407	J-	0.00382	0.00382	0.00382	0.00382	J-	0.00369	0.00369	0.00369	ND	UJ	0.55	0.036	0.036
	BENZENE	15.4	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	BROMOBENZENE	300	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0057	0.0057
	BROMOCHLOROMETHANE	160	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.017	0.017
	BROMODICHLOROMETHANE	5.41	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0047	0.0047
	BROMOFORM	616	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0034	0.0034
	BROMOMETHANE	16.5	ND	U	0.00191	0.000382	0.000382	ND	U	0.00184	0.000369	0.000369	ND	U	0.11	0.0052	0.0052
	CARBON DISULFIDE	1,530	ND	U	0.00382	0.00382	0.00382	ND	U	0.00369	0.00369	0.00369	ND	U	0.36	0.0096	0.0096
	CARBON TETRACHLORIDE	10.8	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0051	0.0051
	CHLOROBENZENE	376	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	CHLOROETHANE	29,800	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.006	0.006
	CHLOROFORM	5.86	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.013	0.013
	CHLOROMETHANE	275	ND	UJ	0.000763	0.000382	0.000382	ND	UJ	0.000738	0.000369	0.000369	ND	UJ	0.11	0.0033	0.0033
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0033	0.0033
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0045	0.0045
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0036	0.0036
	DIBROMOMETHANE	51.6	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0042	0.0042
	DICHLORODIFLUOROMETHANE	168	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0088	0.0088
	ETHYLBENZENE	68.4	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0039	0.0039
	HEXACHLOROBUTADIENE	61.1	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.073	0.0054	0.0054

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-61					FFOR-EXC-62					FFOR-EXC-63				
	SAMPLE NO	FFOR-CF-0067					FFOR-CF-0068					FFOR-CF-0069				
	SAMPLE DATE	4-Sep-14					4-Sep-14					4-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0029	0.0029
	METHYL TERT-BUTYL ETHER	901	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.014	0.014
	METHYLENE CHLORIDE	409	ND	U	0.00191	0.000763	0.000763	ND	U	0.00184	0.000738	0.000738	ND	U	0.11	0.0034	0.0034
	NAPHTHALENE	43	ND	U	0.000763	0.000763	0.000763	ND	U	0.000738	0.000738	0.000738	ND	U	0.073	0.003	0.003
	N-BUTYLBENZENE	3,900	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.11	0.0032	0.0032
	N-PROPYLBENZENE	3,400	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0037	0.0037
	P-ISOPROPYLTOLUENE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0033	0.0033
	SEC-BUTYLBENZENE	7,800	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0035	0.0035
	STYRENE	7,280	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0028	0.0028
	TERT-BUTYLBENZENE	7,800	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	TETRACHLOROETHENE	7.02	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0045	0.0045
	TOLUENE	5,270	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.004	0.004
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.005	0.005
	TRICHLOROETHENE	8.77	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.005	0.005
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.0038	0.0038
	VINYL ACETATE	2,560	ND	U	0.00382	0.00382	0.00382	ND	U	0.00369	0.00369	0.00369	ND	U	0.36	0.36	0.36
	VINYL CHLORIDE	0.728	ND	U	0.000763	0.000382	0.000382	ND	U	0.000738	0.000369	0.000369	ND	U	0.036	0.003	0.003
	XYLENES	814	ND	U	0.000763	0.000763	0.000763	ND	U	0.000738	0.000738	0.000738	ND	U	0.073	0.011	0.011

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-64					FFOR-EXC-65					FFOR-EXC-66				
	SAMPLE NO		FFOR-CF-0070					FFOR-CF-0071					FFOR-CF-0072				
	SAMPLE DATE		4-Sep-14					4-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	2.4		0.27	0.12	0.12	35		0.27	0.12	0.12	80		0.55	0.24	0.24
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	27		11	6	6	**4,200**	J-	110	61	61	**10,000**		1100	600	600
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	1.6	J	3.6	0.47	0.47	430	J+	40	5.2	5.2	**5,000**		370	48	48
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	UJ	560	560	560	ND	U	5500	5500	5500
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.21	0.061	0.061	ND	U	0.22	0.064	0.064	ND	U	0.22	0.063	0.063
	1,2-DICHLOROBENZENE	2,310	ND	U	0.21	0.041	0.041	ND	U	0.22	0.043	0.043	ND	U	0.22	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.21	0.06	0.06	ND	U	0.22	0.063	0.063	ND	U	0.22	0.061	0.061
	1,4-DICHLOROBENZENE	31.7	ND	U	0.21	0.066	0.066	ND	U	0.22	0.069	0.069	ND	U	0.22	0.067	0.067
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.21	0.047	0.047	ND	U	0.22	0.049	0.049	ND	U	0.22	0.048	0.048
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061	ND	U	0.22	0.059	0.059
	2,4-DICHLOROPHENOL	183	ND	U	0.42	0.065	0.065	ND	U	0.44	0.068	0.068	ND	U	0.43	0.067	0.067
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.32	0.063	0.063	ND	U	0.33	0.066	0.066	ND	U	0.33	0.065	0.065
	2,4-DINITROPHENOL	122	ND	U	0.53	0.075	0.075	ND	U	0.55	0.078	0.078	ND	U	0.54	0.077	0.077
	2,4-DINITROTOLUENE	15.7	ND	U	0.53	0.078	0.078	ND	U	0.55	0.082	0.082	ND	U	0.54	0.08	0.08
	2,6-DINITROTOLUENE	61.1	ND	U	0.53	0.063	0.063	ND	U	0.55	0.066	0.066	ND	U	0.54	0.064	0.064
	2-CHLORONAPHTHALENE	6,260	ND	U	0.26	0.061	0.061	ND	U	0.28	0.063	0.063	ND	U	0.27	0.062	0.062
	2-CHLOROPHENOL	391	ND	U	0.21	0.066	0.066	ND	U	0.22	0.069	0.069	ND	U	0.22	0.068	0.068
	2-METHYLNAPHTHALENE	230	ND	U	0.21	0.063	0.063	ND	U	0.22	0.066	0.066	29		2.2	0.65	0.65
	2-METHYLPHENOL	3,100	ND	U	0.53	0.061	0.061	ND	U	0.55	0.063	0.063	ND	U	0.54	0.062	0.062
	2-NITROANILINE	610	ND	U	0.21	0.051	0.051	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	2-NITROPHENOL	NE	ND	U	0.21	0.058	0.058	ND	U	0.22	0.061	0.061	ND	U	0.22	0.06	0.06
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.26	0.059	0.059	ND	U	0.28	0.061	0.061	ND	U	0.27	0.06	0.06
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.21	0.071	0.071	ND	U	0.22	0.075	0.075	ND	U	0.22	0.073	0.073
	3-NITROANILINE	NE	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	ND	U	0.22	0.063	0.063
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.53	0.043	0.043	ND	U	0.55	0.045	0.045	ND	U	0.54	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.21	0.053	0.053	ND	U	0.22	0.056	0.056	ND	U	0.22	0.055	0.055
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.53	0.056	0.056	ND	U	0.55	0.059	0.059	ND	U	0.54	0.057	0.057
	4-CHLOROANILINE	2.4	ND	U	0.53	0.056	0.056	ND	U	0.55	0.059	0.059	ND	U	0.54	0.057	0.057
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.21	0.06	0.06	ND	U	0.22	0.063	0.063	ND	U	0.22	0.062	0.062
	4-NITROANILINE	24	ND	U	0.42	0.051	0.051	ND	U	0.44	0.053	0.053	ND	U	0.43	0.052	0.052
	4-NITROPHENOL	NE	ND	U	0.26	0.065	0.065	ND	U	0.28	0.068	0.068	ND	U	0.27	0.067	0.067
	ACENAPHTHENE	3440	ND	U	0.21	0.051	0.051	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	ACENAPHTHYLENE	NE	ND	U	0.21	0.052	0.052	ND	U	0.22	0.054	0.054	ND	U	0.22	0.053	0.053
	ANTHRACENE	17,200	ND	U	0.21	0.046	0.046	ND	U	0.22	0.048	0.048	ND	U	0.22	0.047	0.047
	BENZENAMINE	85	ND	U	0.21	0.063	0.063	ND	U	0.22	0.065	0.065	ND	U	0.22	0.064	0.064
	BENZO(A)ANTHRACENE	1.48	ND	U	0.21	0.057	0.057	ND	U	0.22	0.06	0.06	ND	U	0.22	0.059	0.059
	BENZO(A)PYRENE	0.148	ND	U	0.21	0.064	0.064	ND	U	0.22	0.067	0.067	ND	U	0.22	0.065	0.065
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.21	0.073	0.073	ND	U	0.22	0.076	0.076	ND	U	0.22	0.075	0.075
	BENZO(GHI)PERYLENE	NE	ND	U	0.21	0.064	0.064	ND	U	0.22	0.067	0.067	ND	U	0.22	0.066	0.066
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.21	0.08	0.08	ND	U	0.22	0.084	0.084	ND	U	0.22	0.083	0.083
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.21	0.071	0.071	ND	U	0.22	0.075	0.075	ND	U	0.22	0.073	0.073
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.21	0.085	0.085	ND	U	0.22	0.089	0.089	ND	U	0.22	0.087	0.087
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.21	0.039	0.039	ND	U	0.22	0.041	0.041	ND	U	0.22	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.53	0.071	0.071	ND	U	0.55	0.074	0.074	ND	U	0.54	0.073	0.073
	BUTYL BENZYL PHTHALATE	260	ND	U	0.21	0.045	0.045	ND	U	0.22	0.047	0.047	ND	U	0.22	0.046	0.046

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-64					FFOR-EXC-65					FFOR-EXC-66				
	SAMPLE NO		FFOR-CF-0070					FFOR-CF-0071					FFOR-CF-0072				
	SAMPLE DATE		4-Sep-14					4-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.21	0.047	0.047	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	CHRYSENE	148	ND	U	0.21	0.054	0.054	ND	U	0.22	0.056	0.056	ND	U	0.22	0.055	0.055
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.21	0.063	0.063	ND	U	0.22	0.066	0.066	ND	U	0.22	0.065	0.065
	DIBENZOFURAN	78	ND	U	0.21	0.071	0.071	ND	U	0.22	0.074	0.074	1		0.22	0.073	0.073
	DIETHYL PHTHALATE	48,900	ND	U	0.21	0.047	0.047	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	DIMETHYL PHTHALATE	611,000	ND	U	0.21	0.059	0.059	ND	U	0.22	0.061	0.061	ND	U	0.22	0.06	0.06
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.53	0.048	0.048	ND	U	0.55	0.05	0.05	ND	U	0.54	0.049	0.049
	DI-N-OCTYL PHTHALATE	610	ND	U	0.42	0.27	0.27	ND	U	0.44	0.28	0.28	ND	U	0.43	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.21	0.047	0.047	ND	U	0.22	0.05	0.05	ND	U	0.22	0.049	0.049
	FLUORENE	2,290	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	0.19	J	0.22	0.063	0.063
	HEXACHLOROBENZENE	3.04	ND	U	0.21	0.058	0.058	ND	U	0.22	0.06	0.06	ND	U	0.22	0.059	0.059
	HEXACHLOROBUTADIENE	61.1	ND	U	0.21	0.051	0.051	ND	U	0.22	0.053	0.053	ND	U	0.22	0.052	0.052
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.21	0.068	0.068	ND	U	0.22	0.072	0.072	ND	U	0.22	0.07	0.07
	HEXACHLOROETHANE	42.8	ND	U	0.21	0.074	0.074	ND	U	0.22	0.078	0.078	ND	U	0.22	0.076	0.076
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.21	0.07	0.07	ND	U	0.22	0.073	0.073	ND	U	0.22	0.072	0.072
	ISOPHORONE	5,120	ND	U	0.53	0.069	0.069	ND	U	0.55	0.073	0.073	ND	U	0.54	0.071	0.071
	NAPHTHALENE	43	ND	U	0.21	0.05	0.05	0.21	J	0.22	0.053	0.053	17		2.2	0.52	0.52
	NITROBENZENE	53.5	ND	U	0.53	0.059	0.059	ND	U	0.55	0.062	0.062	ND	U	0.54	0.061	0.061
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.21	0.08	0.08	ND	U	0.22	0.084	0.084	ND	U	0.22	0.082	0.082
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.21	0.07	0.07	ND	U	0.22	0.073	0.073	ND	U	0.22	0.072	0.072
	N-NITROSODIPHENYLAMINE	993	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	ND	U	0.22	0.063	0.063
	PENTACHLOROPHENOL	8.94	ND	U	0.42	0.086	0.086	ND	U	0.44	0.09	0.09	ND	U	0.43	0.088	0.088
	PHENANTHRENE	1,830	ND	U	0.21	0.038	0.038	ND	U	0.22	0.04	0.04	0.041	J	0.22	0.039	0.039
	PHENOL	18,300	ND	U	0.21	0.062	0.062	ND	U	0.22	0.065	0.065	ND	U	0.22	0.064	0.064
	PYRENE	1,720	ND	U	0.21	0.057	0.057	ND	U	0.22	0.06	0.06	ND	U	0.22	0.059	0.059
	PYRIDINE	78	ND	U	0.53	0.059	0.059	ND	U	0.55	0.061	0.061	ND	U	0.54	0.06	0.06
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-64					FFOR-EXC-65					FFOR-EXC-66				
	SAMPLE NO		FFOR-CF-0070					FFOR-CF-0071					FFOR-CF-0072				
	SAMPLE DATE		4-Sep-14					4-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0048	0.0048	ND	U	0.37	0.044	0.044
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0041	0.0041	ND	U	0.37	0.037	0.037
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.067	0.067	ND	U	0.37	0.061	0.061
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0049	0.0049	ND	U	0.37	0.044	0.044
	1,1-DICHLOROETHANE	64.5	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0028	0.0028	ND	U	0.37	0.025	0.025
	1,1-DICHLOROETHENE	449	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0032	0.0032	ND	U	0.37	0.029	0.029
	1,1-DICHLOROPROPENE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.081	0.0062	0.0062	ND	U	0.73	0.057	0.057
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00072	0.00036	0.00036	ND	U	0.81	0.045	0.045	ND	U	0.73	0.041	0.041
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00072	0.00036	0.00036	ND	U	0.81	0.061	0.061	ND	U	0.73	0.055	0.055
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.045	0.045	ND	U	0.37	0.04	0.04
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00072	0.00036	0.00036	0.31	J+	0.4	0.049	0.049	**100**		3.7	0.44	0.44
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00072	0.00036	0.00036	ND	U	0.81	0.055	0.055	ND	U	0.73	0.05	0.05
	1,2-DIBROMOETHANE	0.588	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0046	0.0046	ND	U	0.37	0.042	0.042
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.048	0.048	ND	U	0.37	0.043	0.043
	1,2-DICHLOROETHANE	7.89	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0066	0.0066	ND	U	0.37	0.06	0.06
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0036	0.0036	ND	U	0.37	0.032	0.032
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.043	0.043	25		3.7	0.39	0.39
	1,3-DICHLOROBENZENE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.048	0.048	ND	U	0.37	0.044	0.044
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0076	0.0076	ND	U	0.37	0.069	0.069
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.048	0.048	ND	U	0.37	0.043	0.043
	2,2-DICHLOROPROPANE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.081	0.0044	0.0044	ND	U	0.73	0.039	0.039
	2-BUTANONE	37,100	ND	U	0.0036	0.0036	0.0036	ND	U	0.4	0.018	0.018	ND	U	3.7	0.17	0.17
	2-CHLOROTOLUENE	1,560	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.036	0.036	ND	U	0.37	0.032	0.032
	2-HEXANONE	210	ND	U	0.0036	0.0036	0.0036	ND	U	0.4	0.019	0.019	ND	U	3.7	0.18	0.18
	4-CHLOROTOLUENE	1,600	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.12	0.12	ND	U	0.37	0.11	0.11
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.0036	0.0036	0.0036	ND	U	0.4	0.016	0.016	ND	U	3.7	0.14	0.14
	ACETONE	66,600	0.00458	J-	0.0036	0.0036	0.0036	ND	UJ	0.6	0.039	0.039	0.76	J-	5.5	0.36	0.36
	BENZENE	15.4	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0044	0.0044	0.068	J	0.37	0.04	0.04
	BROMOBENZENE	300	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.063	0.063	ND	U	0.37	0.057	0.057
	BROMOCHLOROMETHANE	160	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.018	0.018	ND	U	0.37	0.17	0.17
	BROMODICHLOROMETHANE	5.41	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0052	0.0052	ND	U	0.37	0.047	0.047
	BROMOFORM	616	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.038	0.038	ND	U	0.37	0.034	0.034
	BROMOMETHANE	16.5	ND	U	0.0018	0.00036	0.00036	ND	U	0.12	0.0058	0.0058	ND	UJ	1.1	0.052	0.052
	CARBON DISULFIDE	1,530	ND	U	0.0036	0.0036	0.0036	ND	U	0.4	0.011	0.011	ND	U	3.7	0.097	0.097
	CARBON TETRACHLORIDE	10.8	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0056	0.0056	ND	U	0.37	0.051	0.051
	CHLOROBENZENE	376	ND	UJ	0.00072	0.00036	0.00036	ND	U	0.04	0.0044	0.0044	ND	U	0.37	0.04	0.04
	CHLOROETHANE	29,800	ND	U	0.00072	0.00036	0.00036	ND	U	0.081	0.0067	0.0067	ND	U	0.73	0.061	0.061
	CHLOROFORM	5.86	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.014	0.014	ND	U	0.37	0.13	0.13
	CHLOROMETHANE	275	ND	UJ	0.00072	0.00036	0.00036	ND	UJ	0.12	0.0037	0.0037	ND	U	1.1	0.034	0.034
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0037	0.0037	ND	U	0.37	0.033	0.033
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.005	0.005	ND	U	0.37	0.045	0.045
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.004	0.004	ND	U	0.37	0.036	0.036
	DIBROMOMETHANE	51.6	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0046	0.0046	ND	U	0.37	0.042	0.042
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0098	0.0098	ND	U	0.37	0.089	0.089
	ETHYLBENZENE	68.4	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0043	0.0043	20		0.37	0.039	0.039
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00072	0.00036	0.00036	ND	U	0.81	0.059	0.059	ND	U	0.73	0.054	0.054

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-64					FFOR-EXC-65					FFOR-EXC-66				
	SAMPLE NO		FFOR-CF-0070					FFOR-CF-0071					FFOR-CF-0072				
	SAMPLE DATE		4-Sep-14					4-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					20 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method	ISOPROPYLBENZENE	2,430	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.032	0.032	8.3		3.7	0.29	0.29
8260B	METHYL TERT-BUTYL ETHER	901	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.015	0.015	ND	U	0.37	0.14	0.14
	METHYLENE CHLORIDE	409	ND	U	0.0018	0.00072	0.00072	ND	U	0.12	0.0038	0.0038	0.28	J	1.1	0.034	0.034
	NAPHTHALENE	43	ND	U	0.00072	0.00072	0.00072	0.31	J+	0.81	0.033	0.033	24		7.3	0.3	0.3
	N-BUTYLBENZENE	3,900	ND	U	0.00072	0.00036	0.00036	0.15	J	1.2	0.036	0.036	43		11	0.32	0.32
	N-PROPYLBENZENE	3,400	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.041	0.041	24		3.7	0.37	0.37
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.036	0.036	15		3.7	0.33	0.33
	SEC-BUTYLBENZENE	7,800	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.039	0.039	19		3.7	0.35	0.35
	STYRENE	7,280	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0031	0.0031	ND	U	0.37	0.029	0.029
	TERT-BUTYLBENZENE	7,800	ND	U	0.00072	0.00036	0.00036	ND	U	0.4	0.044	0.044	ND	U	3.7	0.4	0.4
	TETRACHLOROETHENE	7.02	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0049	0.0049	ND	U	0.37	0.045	0.045
	TOLUENE	5,270	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0044	0.0044	4.4		0.37	0.04	0.04
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0045	0.0045	ND	U	0.37	0.041	0.041
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0056	0.0056	ND	U	0.37	0.05	0.05
	TRICHLOROETHENE	8.77	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0056	0.0056	ND	U	0.37	0.051	0.051
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0042	0.0042	ND	U	0.37	0.038	0.038
	VINYL ACETATE	2,560	ND	U	0.0036	0.0036	0.0036	ND	U	0.4	0.4	0.4	ND	U	3.7	3.7	3.7
	VINYL CHLORIDE	0.728	ND	U	0.00072	0.00036	0.00036	ND	U	0.04	0.0033	0.0033	ND	U	0.37	0.03	0.03
	XYLENES	814	ND	U	0.00072	0.00072	0.00072	ND	U	0.081	0.012	0.012	41		0.73	0.11	0.11

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations anc Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-67					FFOR-EXC-68					FFOR-EXC-69				
	SAMPLE NO	FFOR-CF-0073					FFOR-CF-0074					FFOR-CF-0075				
	SAMPLE DATE	5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	1.1		0.28	0.12	0.12	3.9		0.26	0.11	0.11	7.6		0.27	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6.1	6.1	**2,000**		110	60	60	ND	U	11	6.1	6.1
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	4.2	0.55	0.55	**2,200**		37	4.7	4.7	ND	U	4.2	0.54	0.54
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	55	55	55	ND	U	540	540	540	ND	U	55	55	55
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.063	0.063	ND	U	0.21	0.061	0.061	ND	U	0.43	0.13	0.13
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.042	0.042	ND	U	0.21	0.041	0.041	ND	U	0.43	0.085	0.085
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.061	0.061	ND	U	0.21	0.059	0.059	ND	U	0.43	0.12	0.12
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.067	0.067	ND	U	0.21	0.065	0.065	ND	U	0.43	0.13	0.13
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.048	0.048	ND	U	0.21	0.046	0.046	ND	U	0.43	0.096	0.096
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.059	0.059	ND	U	0.21	0.057	0.057	ND	U	0.43	0.12	0.12
	2,4-DICHLOROPHENOL	183	ND	U	0.43	0.067	0.067	ND	U	0.42	0.065	0.065	ND	U	0.87	0.13	0.13
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.065	0.065	ND	U	0.31	0.062	0.062	ND	U	0.65	0.13	0.13
	2,4-DINITROPHENOL	122	ND	U	0.54	0.077	0.077	ND	U	0.52	0.074	0.074	ND	U	1.1	0.15	0.15
	2,4-DINITROTOLUENE	15.7	ND	U	0.54	0.08	0.08	ND	U	0.52	0.077	0.077	ND	U	1.1	0.16	0.16
	2,6-DINITROTOLUENE	61.1	ND	U	0.54	0.064	0.064	ND	U	0.52	0.062	0.062	ND	U	1.1	0.13	0.13
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.062	0.062	ND	U	0.26	0.06	0.06	ND	U	0.54	0.12	0.12
	2-CHLOROPHENOL	391	ND	U	0.22	0.068	0.068	ND	U	0.21	0.065	0.065	ND	U	0.43	0.14	0.14
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.065	0.065	3		0.21	0.062	0.062	ND	U	0.43	0.13	0.13
	2-METHYLPHENOL	3,100	ND	U	0.54	0.062	0.062	ND	U	0.52	0.06	0.06	ND	U	1.1	0.12	0.12
	2-NITROANILINE	610	ND	U	0.22	0.052	0.052	ND	U	0.21	0.05	0.05	ND	U	0.43	0.1	0.1
	2-NITROPHENOL	NE	ND	U	0.22	0.06	0.06	ND	U	0.21	0.058	0.058	ND	U	0.43	0.12	0.12
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.06	0.06	ND	U	0.26	0.058	0.058	ND	U	0.54	0.12	0.12
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.073	0.073	ND	U	0.21	0.071	0.071	ND	U	0.43	0.15	0.15
	3-NITROANILINE	NE	ND	U	0.22	0.063	0.063	ND	U	0.21	0.061	0.061	ND	U	0.43	0.13	0.13
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.54	0.045	0.045	ND	U	0.52	0.043	0.043	ND	U	1.1	0.089	0.089
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.055	0.055	ND	U	0.21	0.053	0.053	ND	U	0.43	0.11	0.11
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.54	0.058	0.058	ND	U	0.52	0.055	0.055	ND	U	1.1	0.11	0.11
	4-CHLOROANILINE	2.4	ND	U	0.54	0.057	0.057	ND	U	0.52	0.055	0.055	ND	U	1.1	0.11	0.11
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.062	0.062	ND	U	0.21	0.059	0.059	ND	U	0.43	0.12	0.12
	4-NITROANILINE	24	ND	U	0.43	0.052	0.052	ND	U	0.42	0.05	0.05	ND	U	0.87	0.1	0.1
	4-NITROPHENOL	NE	ND	U	0.27	0.067	0.067	ND	U	0.26	0.064	0.064	ND	U	0.54	0.13	0.13
	ACENAPHTHENE	3440	ND	U	0.22	0.052	0.052	ND	U	0.21	0.05	0.05	ND	U	0.43	0.1	0.1
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	U	0.21	0.051	0.051	ND	U	0.43	0.11	0.11
	ANTHRACENE	17,200	ND	U	0.22	0.047	0.047	0.047	J	0.21	0.045	0.045	ND	U	0.43	0.094	0.094
	BENZENAMINE	85	ND	U	0.22	0.064	0.064	ND	U	0.21	0.062	0.062	ND	U	0.43	0.13	0.13
	BENZO(A)ANTHRACENE	1.48	ND	U	0.22	0.059	0.059	0.25		0.21	0.057	0.057	ND	U	0.43	0.12	0.12
	BENZO(A)PYRENE	0.148	ND	U	0.22	0.065	0.065	0.13	J	0.21	0.063	0.063	ND	U	0.43	0.13	0.13
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.22	0.075	0.075	0.63		0.21	0.072	0.072	ND	U	0.43	0.15	0.15
	BENZO(GHI)PERYLENE	NE	ND	U	0.22	0.066	0.066	0.13	J	0.21	0.063	0.063	0.2	J	0.43	0.13	0.13
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.083	0.083	ND	U	0.21	0.08	0.08	ND	U	0.43	0.16	0.16
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.073	0.073	ND	U	0.21	0.071	0.071	ND	U	0.43	0.15	0.15
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.087	0.087	ND	U	0.21	0.084	0.084	ND	U	0.43	0.17	0.17
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.04	0.04	ND	U	0.21	0.039	0.039	ND	U	0.43	0.081	0.081
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.54	0.073	0.073	ND	U	0.52	0.071	0.071	ND	U	1.1	0.15	0.15
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.046	0.046	ND	U	0.21	0.045	0.045	ND	U	0.43	0.092	0.092

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-67					FFOR-EXC-68					FFOR-EXC-69				
	SAMPLE NO		FFOR-CF-0073					FFOR-CF-0074					FFOR-CF-0075				
	SAMPLE DATE		5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.22	0.049	0.049	ND	U	0.21	0.047	0.047	ND	U	0.43	0.097	0.097
	CHRYSENE	148	ND	U	0.22	0.055	0.055	0.25		0.21	0.053	0.053	ND	U	0.43	0.11	0.11
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.22	0.065	0.065	0.071	J	0.21	0.062	0.062	ND	U	0.43	0.13	0.13
	DIBENZOFURAN	78	ND	U	0.22	0.073	0.073	0.2	J	0.21	0.07	0.07	ND	U	0.43	0.15	0.15
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.049	0.049	ND	U	0.21	0.047	0.047	ND	U	0.43	0.097	0.097
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.06	0.06	ND	U	0.21	0.058	0.058	ND	U	0.43	0.12	0.12
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.54	0.049	0.049	ND	U	0.52	0.047	0.047	ND	U	1.1	0.098	0.098
	DI-N-OCTYL PHTHALATE	610	ND	U	0.43	0.27	0.27	ND	U	0.42	0.26	0.26	ND	U	0.87	0.54	0.54
	FLUORANTHENE	2,290	ND	U	0.22	0.049	0.049	0.79		0.21	0.047	0.047	ND	U	0.43	0.097	0.097
	FLUORENE	2,290	ND	U	0.22	0.063	0.063	0.089	J	0.21	0.061	0.061	ND	U	0.43	0.13	0.13
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.059	0.059	ND	U	0.21	0.057	0.057	ND	U	0.43	0.12	0.12
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.052	0.052	ND	U	0.21	0.05	0.05	ND	U	0.43	0.1	0.1
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.07	0.07	ND	U	0.21	0.068	0.068	ND	U	0.43	0.14	0.14
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.076	0.076	ND	U	0.21	0.074	0.074	ND	U	0.43	0.15	0.15
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.22	0.072	0.072	0.15	J	0.21	0.069	0.069	0.15	J	0.43	0.14	0.14
	ISOPHORONE	5,120	ND	U	0.54	0.071	0.071	ND	U	0.52	0.069	0.069	ND	U	1.1	0.14	0.14
	NAPHTHALENE	43	ND	U	0.22	0.052	0.052	1.5		0.21	0.05	0.05	ND	U	0.43	0.1	0.1
	NITROBENZENE	53.5	ND	U	0.54	0.061	0.061	ND	U	0.52	0.058	0.058	ND	U	1.1	0.12	0.12
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.082	0.082	ND	U	0.21	0.079	0.079	ND	U	0.43	0.16	0.16
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.072	0.072	ND	U	0.21	0.07	0.07	ND	U	0.43	0.14	0.14
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.063	0.063	ND	U	0.21	0.061	0.061	ND	U	0.43	0.13	0.13
	PENTACHLOROPHENOL	8.94	ND	U	0.43	0.088	0.088	ND	U	0.42	0.085	0.085	ND	U	0.87	0.18	0.18
	PHENANTHRENE	1,830	ND	U	0.22	0.039	0.039	0.49		0.21	0.038	0.038	ND	U	0.43	0.079	0.079
	PHENOL	18,300	ND	U	0.22	0.064	0.064	ND	U	0.21	0.061	0.061	ND	U	0.43	0.13	0.13
	PYRENE	1,720	ND	U	0.22	0.059	0.059	0.9		0.21	0.057	0.057	ND	U	0.43	0.12	0.12
	PYRIDINE	78	ND	U	0.54	0.06	0.06	ND	U	0.52	0.058	0.058	ND	U	1.1	0.12	0.12
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-67					FFOR-EXC-68					FFOR-EXC-69				
	SAMPLE NO		FFOR-CF-0073					FFOR-CF-0074					FFOR-CF-0075				
	SAMPLE DATE		5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.044	0.044	ND	U	0.00162	0.000811	0.000811
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.037	0.037	ND	U	0.00162	0.000811	0.000811
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.061	0.061	ND	U	0.00162	0.000811	0.000811
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.044	0.044	ND	U	0.00162	0.000811	0.000811
	1,1-DICHLOROETHANE	64.5	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.025	0.025	ND	U	0.00162	0.000811	0.000811
	1,1-DICHLOROETHENE	449	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.029	0.029	ND	U	0.00162	0.000811	0.000811
	1,1-DICHLOROPROPENE	NE	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.057	0.057	ND	U	0.00162	0.000811	0.000811
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.041	0.041	ND	U	0.00162	0.000811	0.000811
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.055	0.055	ND	U	0.00162	0.000811	0.000811
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.04	0.04	ND	U	0.00162	0.000811	0.000811
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00143	0.000715	0.000715	17	J+	0.37	0.044	0.044	ND	U	0.00162	0.000811	0.000811
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.05	0.05	ND	U	0.00162	0.000811	0.000811
	1,2-DIBROMOETHANE	0.588	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.042	0.042	ND	U	0.00162	0.000811	0.000811
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.043	0.043	ND	U	0.00162	0.000811	0.000811
	1,2-DICHLOROETHANE	7.89	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.06	0.06	ND	U	0.00162	0.000811	0.000811
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.032	0.032	ND	U	0.00162	0.000811	0.000811
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00143	0.000715	0.000715	8.8	J+	0.37	0.039	0.039	ND	U	0.00162	0.000811	0.000811
	1,3-DICHLOROBENZENE	NE	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.044	0.044	ND	U	0.00162	0.000811	0.000811
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.069	0.069	ND	U	0.00162	0.000811	0.000811
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.043	0.043	ND	U	0.00162	0.000811	0.000811
	2,2-DICHLOROPROPANE	NE	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.039	0.039	ND	U	0.00162	0.000811	0.000811
	2-BUTANONE	37,100	ND	U	0.00715	0.00715	0.00715	2.2	J+	3.7	0.17	0.17	ND	U	0.00811	0.00811	0.00811
	2-CHLOROTOLUENE	1,560	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.032	0.032	ND	U	0.00162	0.000811	0.000811
	2-HEXANONE	210	ND	U	0.00715	0.00715	0.00715	ND	U	3.7	0.18	0.18	ND	U	0.00811	0.00811	0.00811
	4-CHLOROTOLUENE	1,600	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.11	0.11	ND	U	0.00162	0.000811	0.000811
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00715	0.00715	0.00715	ND	U	3.7	0.14	0.14	ND	U	0.00811	0.00811	0.00811
	ACETONE	66,600	ND	UJ	0.00715	0.00715	0.00715	4.6	J	5.5	0.36	0.36	ND	UJ	0.00811	0.00811	0.00811
	BENZENE	15.4	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.04	0.04	ND	U	0.00162	0.000811	0.000811
	BROMOBENZENE	300	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.057	0.057	ND	U	0.00162	0.000811	0.000811
	BROMOCHLOROMETHANE	160	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.17	0.17	ND	U	0.00162	0.000811	0.000811
	BROMODICHLOROMETHANE	5.41	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.047	0.047	ND	U	0.00162	0.000811	0.000811
	BROMOFORM	616	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.034	0.034	ND	U	0.00162	0.000811	0.000811
	BROMOMETHANE	16.5	ND	UJ	0.00358	0.000715	0.000715	ND	UJ	1.1	0.052	0.052	ND	UJ	0.00406	0.000811	0.000811
	CARBON DISULFIDE	1,530	ND	U	0.00715	0.00715	0.00715	ND	U	3.7	0.097	0.097	ND	U	0.00811	0.00811	0.00811
	CARBON TETRACHLORIDE	10.8	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.051	0.051	ND	U	0.00162	0.000811	0.000811
	CHLOROBENZENE	376	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.04	0.04	ND	U	0.00162	0.000811	0.000811
	CHLOROETHANE	29,800	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.06	0.06	ND	U	0.00162	0.000811	0.000811
	CHLOROFORM	5.86	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.13	0.13	ND	U	0.00162	0.000811	0.000811
	CHLOROMETHANE	275	ND	U	0.00143	0.000715	0.000715	ND	U	1.1	0.034	0.034	ND	U	0.00162	0.000811	0.000811
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.033	0.033	ND	U	0.00162	0.000811	0.000811
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.045	0.045	ND	U	0.00162	0.000811	0.000811
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.036	0.036	ND	U	0.00162	0.000811	0.000811
	DIBROMOMETHANE	51.6	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.042	0.042	ND	U	0.00162	0.000811	0.000811
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.088	0.088	ND	U	0.00162	0.000811	0.000811
	ETHYLBENZENE	68.4	ND	U	0.00143	0.000715	0.000715	5	J+	0.37	0.039	0.039	ND	U	0.00162	0.000811	0.000811
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00143	0.000715	0.000715	ND	U	0.73	0.054	0.054	ND	U	0.00162	0.000811	0.000811

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-67					FFOR-EXC-68					FFOR-EXC-69				
	SAMPLE NO	FFOR-CF-0073					FFOR-CF-0074					FFOR-CF-0075				
	SAMPLE DATE	5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00143	0.000715	0.000715	2.3	J+	0.37	0.029	0.029	ND	U	0.00162	0.000811	0.000811
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.14	0.14	ND	U	0.00162	0.000811	0.000811
	METHYLENE CHLORIDE	409	ND	U	0.00358	0.00143	0.00143	0.4	J+	1.1	0.034	0.034	ND	U	0.00406	0.00162	0.00162
	NAPHTHALENE	43	ND	U	0.00143	0.00143	0.00143	2.4	J+	0.73	0.03	0.03	ND	U	0.00162	0.00162	0.00162
	N-BUTYLBENZENE	3,900	ND	U	0.00143	0.000715	0.000715	1.5	J+	1.1	0.032	0.032	ND	U	0.00162	0.000811	0.000811
	N-PROPYLBENZENE	3,400	ND	U	0.00143	0.000715	0.000715	3.4	J+	0.37	0.037	0.037	ND	U	0.00162	0.000811	0.000811
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00143	0.000715	0.000715	1.6	J+	0.37	0.033	0.033	ND	U	0.00162	0.000811	0.000811
	SEC-BUTYLBENZENE	7,800	ND	UJ	0.00143	0.000715	0.000715	1.3	J	0.37	0.035	0.035	ND	UJ	0.00162	0.000811	0.000811
	STYRENE	7,280	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.029	0.029	ND	U	0.00162	0.000811	0.000811
	TERT-BUTYLBENZENE	7,800	ND	U	0.00143	0.000715	0.000715	0.088	J+	0.37	0.04	0.04	ND	U	0.00162	0.000811	0.000811
	TETRACHLOROETHENE	7.02	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.045	0.045	ND	U	0.00162	0.000811	0.000811
	TOLUENE	5,270	ND	U	0.00143	0.000715	0.000715	0.6	J+	0.37	0.04	0.04	ND	U	0.00162	0.000811	0.000811
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.041	0.041	ND	U	0.00162	0.000811	0.000811
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.05	0.05	ND	U	0.00162	0.000811	0.000811
	TRICHLOROETHENE	8.77	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.051	0.051	ND	U	0.00162	0.000811	0.000811
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.038	0.038	ND	U	0.00162	0.000811	0.000811
	VINYL ACETATE	2,560	ND	U	0.00715	0.00715	0.00715	ND	U	3.7	3.7	3.7	ND	U	0.00811	0.00811	0.00811
	VINYL CHLORIDE	0.728	ND	U	0.00143	0.000715	0.000715	ND	U	0.37	0.03	0.03	ND	U	0.00162	0.000811	0.000811
	XYLENES	814	ND	U	0.00143	0.00143	0.00143	46	J+	0.73	0.11	0.11	ND	U	0.00162	0.00162	0.00162

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-70					FFOR-EXC-70					FFOR-EXC-71				
	SAMPLE NO		FFOR-CF-0076					FFOR-CF-0077					FFOR-CF-0111				
	SAMPLE DATE		5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	7.4		0.28	0.12	0.12	4.2		0.27	0.12	0.12	4.1		0.27	0.12	0.12
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6	6	ND	U	11	6.1	6.1	ND	U	11	5.9	5.9
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	ND	U	3.9	0.5	0.5	0.56	J	4.2	0.54	0.54	ND	U	4.1	0.53	0.53
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	55	55	55	ND	U	53	53	53
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.062	0.062
	1,2-DICHLOROBENZENE	2,310	ND	U	0.42	0.082	0.082	ND	U	0.43	0.084	0.084	ND	U	0.22	0.042	0.042
	1,3-DICHLOROBENZENE	NE	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061
	1,4-DICHLOROBENZENE	31.7	ND	U	0.42	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.067	0.067
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.42	0.093	0.093	ND	U	0.43	0.095	0.095	ND	U	0.22	0.048	0.048
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.059	0.059
	2,4-DICHLOROPHENOL	183	ND	U	0.84	0.13	0.13	ND	U	0.86	0.13	0.13	ND	U	0.43	0.066	0.066
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.63	0.13	0.13	ND	U	0.64	0.13	0.13	ND	U	0.32	0.064	0.064
	2,4-DINITROPHENOL	122	ND	U	1.1	0.15	0.15	ND	U	1.1	0.15	0.15	ND	U	0.54	0.076	0.076
	2,4-DINITROTOLUENE	15.7	ND	U	1.1	0.15	0.15	ND	U	1.1	0.16	0.16	ND	U	0.54	0.079	0.079
	2,6-DINITROTOLUENE	61.1	ND	U	1.1	0.12	0.12	ND	U	1.1	0.13	0.13	ND	U	0.54	0.064	0.064
	2-CHLORONAPHTHALENE	6,260	ND	U	0.53	0.12	0.12	ND	U	0.54	0.12	0.12	ND	U	0.27	0.062	0.062
	2-CHLOROPHENOL	391	ND	U	0.42	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.067	0.067
	2-METHYLNAPHTHALENE	230	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.064	0.064
	2-METHYLPHENOL	3,100	ND	U	1.1	0.12	0.12	ND	U	1.1	0.12	0.12	ND	U	0.54	0.062	0.062
	2-NITROANILINE	610	ND	U	0.42	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.052	0.052
	2-NITROPHENOL	NE	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.059	0.059
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.53	0.12	0.12	ND	U	0.54	0.12	0.12	ND	U	0.27	0.06	0.06
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.073	0.073
	3-NITROANILINE	NE	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.063	0.063
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	1.1	0.086	0.086	ND	U	1.1	0.088	0.088	ND	U	0.54	0.044	0.044
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.42	0.11	0.11	ND	U	0.43	0.11	0.11	ND	U	0.22	0.054	0.054
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	1.1	0.11	0.11	ND	U	1.1	0.11	0.11	ND	U	0.54	0.057	0.057
	4-CHLOROANILINE	2.4	ND	U	1.1	0.11	0.11	ND	U	1.1	0.11	0.11	ND	U	0.54	0.057	0.057
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.061	0.061
	4-NITROANILINE	24	ND	U	0.84	0.1	0.1	ND	U	0.86	0.1	0.1	ND	U	0.43	0.052	0.052
	4-NITROPHENOL	NE	ND	U	0.53	0.13	0.13	ND	U	0.54	0.13	0.13	ND	U	0.27	0.066	0.066
	ACENAPHTHENE	3440	ND	U	0.42	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.052	0.052
	ACENAPHTHYLENE	NE	ND	U	0.42	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.053	0.053
	ANTHRACENE	17,200	ND	U	0.42	0.091	0.091	ND	U	0.43	0.093	0.093	ND	U	0.22	0.047	0.047
	BENZENAMINE	85	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.064	0.064
	BENZO(A)ANTHRACENE	1.48	ND	U	0.42	0.11	0.11	ND	U	0.43	0.12	0.12	ND	U	0.22	0.059	0.059
	BENZO(A)PYRENE	0.148	ND	U	0.42	0.13	0.13	ND	U	0.43	0.13	0.13	ND	U	0.22	0.065	0.065
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.42	0.14	0.14	ND	U	0.43	0.15	0.15	ND	U	0.22	0.074	0.074
	BENZO(GHI)PERYLENE	NE	ND	U	0.42	0.13	0.13	ND	U	0.43	0.13	0.13	0.1	J	0.22	0.065	0.065
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.42	0.16	0.16	ND	U	0.43	0.16	0.16	ND	U	0.22	0.082	0.082
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.073	0.073
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.42	0.17	0.17	ND	U	0.43	0.17	0.17	ND	U	0.22	0.086	0.086
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.42	0.078	0.078	ND	U	0.43	0.08	0.08	ND	U	0.22	0.04	0.04
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	1.1	0.14	0.14	ND	U	1.1	0.14	0.14	ND	U	0.54	0.073	0.073
	BUTYL BENZYL PHTHALATE	260	ND	U	0.42	0.089	0.089	ND	U	0.43	0.091	0.091	ND	U	0.22	0.046	0.046

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-70					FFOR-EXC-70					FFOR-EXC-71				
	SAMPLE NO		FFOR-CF-0076					FFOR-CF-0077					FFOR-CF-0111				
	SAMPLE DATE		5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	ND	U	0.42	0.094	0.094	ND	U	0.43	0.096	0.096	ND	U	0.22	0.048	0.048
	CHRYSENE	148	ND	U	0.42	0.11	0.11	ND	U	0.43	0.11	0.11	ND	U	0.22	0.055	0.055
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.064	0.064
	DIBENZOFURAN	78	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.072	0.072
	DIETHYL PHTHALATE	48,900	ND	U	0.42	0.094	0.094	ND	U	0.43	0.096	0.096	ND	U	0.22	0.048	0.048
	DIMETHYL PHTHALATE	611,000	ND	U	0.42	0.12	0.12	ND	U	0.43	0.12	0.12	ND	U	0.22	0.06	0.06
	DI-N-BUTYL PHTHALATE	6,110	ND	U	1.1	0.095	0.095	ND	U	1.1	0.096	0.096	ND	U	0.54	0.049	0.049
	DI-N-OCTYL PHTHALATE	610	ND	U	0.84	0.53	0.53	ND	U	0.86	0.54	0.54	ND	U	0.43	0.27	0.27
	FLUORANTHENE	2,290	ND	U	0.42	0.094	0.094	ND	U	0.43	0.096	0.096	ND	U	0.22	0.048	0.048
	FLUORENE	2,290	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.063	0.063
	HEXACHLOROBENZENE	3.04	ND	U	0.42	0.11	0.11	ND	U	0.43	0.12	0.12	ND	U	0.22	0.059	0.059
	HEXACHLOROBUTADIENE	61.1	ND	U	0.42	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.052	0.052
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.07	0.07
	HEXACHLOROETHANE	42.8	ND	U	0.42	0.15	0.15	ND	U	0.43	0.15	0.15	ND	U	0.22	0.076	0.076
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	0.092	J	0.22	0.071	0.071
	ISOPHORONE	5,120	ND	U	1.1	0.14	0.14	ND	U	1.1	0.14	0.14	ND	U	0.54	0.071	0.071
	NAPHTHALENE	43	ND	U	0.42	0.1	0.1	ND	U	0.43	0.1	0.1	ND	U	0.22	0.051	0.051
	NITROBENZENE	53.5	ND	U	1.1	0.12	0.12	ND	U	1.1	0.12	0.12	ND	U	0.54	0.06	0.06
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.42	0.16	0.16	ND	U	0.43	0.16	0.16	ND	U	0.22	0.081	0.081
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.42	0.14	0.14	ND	U	0.43	0.14	0.14	ND	U	0.22	0.072	0.072
	N-NITROSODIPHENYLAMINE	993	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.063	0.063
	PENTACHLOROPHENOL	8.94	ND	U	0.84	0.17	0.17	ND	U	0.86	0.17	0.17	ND	U	0.43	0.087	0.087
	PHENANTHRENE	1,830	ND	U	0.42	0.076	0.076	ND	U	0.43	0.078	0.078	ND	U	0.22	0.039	0.039
	PHENOL	18,300	ND	U	0.42	0.12	0.12	ND	U	0.43	0.13	0.13	ND	U	0.22	0.063	0.063
	PYRENE	1,720	ND	U	0.42	0.11	0.11	ND	U	0.43	0.12	0.12	ND	U	0.22	0.058	0.058
	PYRIDINE	78	ND	U	1.1	0.12	0.12	ND	U	1.1	0.12	0.12	ND	U	0.54	0.06	0.06
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-70					FFOR-EXC-70					FFOR-EXC-71				
	SAMPLE NO		FFOR-CF-0076					FFOR-CF-0077					FFOR-CF-0111				
	SAMPLE DATE		5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					FD					REG				
	SAMPLE DEPTH		7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1-DICHLOROETHANE	64.5	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1-DICHLOROETHENE	449	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,1-DICHLOROPROPENE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2-DIBROMOETHANE	0.588	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2-DICHLOROBENZENE	2,310	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2-DICHLOROETHANE	7.89	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,2-DICHLOROPROPANE	15.2	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,3-DICHLOROBENZENE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,3-DICHLOROPROPANE	1,600	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	1,4-DICHLOROBENZENE	31.7	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	2,2-DICHLOROPROPANE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	2-BUTANONE	37,100	ND	U	0.00699	0.00699	0.00699	ND	U	0.00793	0.00793	0.00793	ND	U	0.00675	0.00675	0.00675
	2-CHLOROTOLUENE	1,560	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	2-HEXANONE	210	ND	U	0.00699	0.00699	0.00699	ND	U	0.00793	0.00793	0.00793	ND	U	0.00675	0.00675	0.00675
	4-CHLOROTOLUENE	1,600	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00699	0.00699	0.00699	ND	U	0.00793	0.00793	0.00793	ND	U	0.00675	0.00675	0.00675
	ACETONE	66,600	ND	UJ	0.00699	0.00699	0.00699	ND	UJ	0.00793	0.00793	0.00793	ND	UJ	0.00675	0.00675	0.00675
	BENZENE	15.4	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	BROMOBENZENE	300	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	BROMOCHLOROMETHANE	160	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	BROMODICHLOROMETHANE	5.41	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	BROMOFORM	616	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	BROMOMETHANE	16.5	ND	UJ	0.00349	0.000699	0.000699	ND	UJ	0.00396	0.000793	0.000793	ND	UJ	0.00338	0.000675	0.000675
	CARBON DISULFIDE	1,530	ND	U	0.00699	0.00699	0.00699	ND	U	0.00793	0.00793	0.00793	ND	U	0.00675	0.00675	0.00675
	CARBON TETRACHLORIDE	10.8	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CHLOROBENZENE	376	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CHLOROETHANE	29,800	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CHLOROFORM	5.86	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CHLOROMETHANE	275	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	DIBROMOMETHANE	51.6	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	DICHLORODIFLUOROMETHANE	168	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	ETHYLBENZENE	68.4	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	HEXACHLOROBUTADIENE	61.1	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-70					FFOR-EXC-70					FFOR-EXC-71				
	SAMPLE NO	FFOR-CF-0076					FFOR-CF-0077					FFOR-CF-0111				
	SAMPLE DATE	5-Sep-14					5-Sep-14					5-Sep-14				
	SAMPLE PURPOSE	REG					FD					REG				
	SAMPLE DEPTH	7.5 FT					7.5 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	METHYL TERT-BUTYL ETHER	901	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	METHYLENE CHLORIDE	409	ND	U	0.00349	0.0014	0.0014	ND	U	0.00396	0.00159	0.00159	ND	U	0.00338	0.00135	0.00135
	NAPHTHALENE	43	ND	U	0.0014	0.0014	0.0014	ND	U	0.00159	0.00159	0.00159	ND	U	0.00135	0.00135	0.00135
	N-BUTYLBENZENE	3,900	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	N-PROPYLBENZENE	3,400	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	P-ISOPROPYLTOLUENE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	SEC-BUTYLBENZENE	7,800	ND	UJ	0.0014	0.000699	0.000699	ND	UJ	0.00159	0.000793	0.000793	ND	UJ	0.00135	0.000675	0.000675
	STYRENE	7,280	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TERT-BUTYLBENZENE	7,800	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TETRACHLOROETHENE	7.02	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TOLUENE	5,270	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TRICHLOROETHENE	8.77	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	VINYL ACETATE	2,560	ND	U	0.00699	0.00699	0.00699	ND	U	0.00793	0.00793	0.00793	ND	U	0.00675	0.00675	0.00675
	VINYL CHLORIDE	0.728	ND	U	0.0014	0.000699	0.000699	ND	U	0.00159	0.000793	0.000793	ND	U	0.00135	0.000675	0.000675
	XYLENES	814	ND	U	0.0014	0.0014	0.0014	ND	U	0.00159	0.00159	0.00159	ND	U	0.00135	0.00135	0.00135

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-72					FFOR-EXC-73					FFOR-EXCSO-01				
	SAMPLE NO		FFOR-CF-0112					FFOR-CF-0113					FFOR-CF-0078				
	SAMPLE DATE		5-Sep-14					5-Sep-14					21-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					15 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	11		0.28	0.12	0.12	3.4		0.58	0.25	0.25	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	ND	U	11	6	6	ND	U	11	6.2	6.2	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	2	J	4	0.52	0.52	ND	U	4.3	0.55	0.55	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	ND	U	54	54	54	ND	U	56	56	56	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	ND	U	0.22	0.063	0.063	ND	U	0.22	0.064	0.064	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	ND	U	0.22	0.042	0.042	ND	U	0.22	0.043	0.043	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	ND	U	0.22	0.061	0.061	ND	U	0.22	0.063	0.063	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	ND	U	0.22	0.067	0.067	ND	U	0.22	0.069	0.069	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	ND	U	0.22	0.048	0.048	ND	U	0.22	0.049	0.049	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	ND	U	0.22	0.059	0.059	ND	U	0.22	0.06	0.06	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	ND	U	0.43	0.067	0.067	ND	U	0.44	0.068	0.068	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	ND	U	0.33	0.065	0.065	ND	U	0.33	0.066	0.066	NS	--	--	--	--
	2,4-DINITROPHENOL	122	ND	U	0.54	0.076	0.076	ND	U	0.55	0.078	0.078	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	ND	U	0.54	0.08	0.08	ND	U	0.55	0.081	0.081	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	ND	U	0.54	0.064	0.064	ND	U	0.55	0.066	0.066	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	ND	U	0.27	0.062	0.062	ND	U	0.28	0.063	0.063	NS	--	--	--	--
	2-CHLOROPHENOL	391	ND	U	0.22	0.067	0.067	ND	U	0.22	0.069	0.069	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	ND	U	0.22	0.064	0.064	ND	U	0.22	0.066	0.066	NS	--	--	--	--
	2-METHYLPHENOL	3,100	ND	U	0.54	0.062	0.062	ND	U	0.55	0.063	0.063	NS	--	--	--	--
	2-NITROANILINE	610	ND	U	0.22	0.052	0.052	ND	U	0.22	0.053	0.053	NS	--	--	--	--
	2-NITROPHENOL	NE	ND	U	0.22	0.06	0.06	ND	U	0.22	0.061	0.061	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	ND	U	0.27	0.06	0.06	ND	U	0.28	0.061	0.061	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	ND	U	0.22	0.073	0.073	ND	U	0.22	0.075	0.075	NS	--	--	--	--
	3-NITROANILINE	NE	ND	U	0.22	0.063	0.063	ND	U	0.22	0.064	0.064	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	ND	U	0.54	0.044	0.044	ND	U	0.55	0.045	0.045	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	ND	U	0.22	0.055	0.055	ND	U	0.22	0.056	0.056	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	ND	U	0.54	0.057	0.057	ND	U	0.55	0.059	0.059	NS	--	--	--	--
	4-CHLOROANILINE	2.4	ND	U	0.54	0.057	0.057	ND	U	0.55	0.058	0.058	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	ND	U	0.22	0.061	0.061	ND	U	0.22	0.063	0.063	NS	--	--	--	--
	4-NITROANILINE	24	ND	U	0.43	0.052	0.052	ND	U	0.44	0.053	0.053	NS	--	--	--	--
	4-NITROPHENOL	NE	ND	U	0.27	0.067	0.067	ND	U	0.28	0.068	0.068	NS	--	--	--	--
	ACENAPHTHENE	3440	ND	U	0.22	0.052	0.052	ND	U	0.22	0.053	0.053	NS	--	--	--	--
	ACENAPHTHYLENE	NE	ND	U	0.22	0.053	0.053	ND	U	0.22	0.054	0.054	NS	--	--	--	--
	ANTHRACENE	17,200	0.11	J	0.22	0.047	0.047	ND	U	0.22	0.048	0.048	NS	--	--	--	--
	BENZENAMINE	85	ND	U	0.22	0.064	0.064	ND	U	0.22	0.065	0.065	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	0.35		0.22	0.059	0.059	ND	U	0.22	0.06	0.06	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	**0.45**		0.22	0.065	0.065	ND	U	0.22	0.067	0.067	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	0.72		0.22	0.074	0.074	ND	U	0.22	0.076	0.076	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	0.76		0.22	0.066	0.066	ND	U	0.22	0.067	0.067	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.22	0.082	0.082	ND	U	0.22	0.084	0.084	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	ND	U	0.22	0.073	0.073	ND	U	0.22	0.075	0.075	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	ND	U	0.22	0.087	0.087	ND	U	0.22	0.089	0.089	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	ND	U	0.22	0.04	0.04	ND	U	0.22	0.041	0.041	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	ND	U	0.54	0.073	0.073	ND	U	0.55	0.074	0.074	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	ND	U	0.22	0.046	0.046	ND	U	0.22	0.047	0.047	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXC-72					FFOR-EXC-73					FFOR-EXCSO-01				
	SAMPLE NO		FFOR-CF-0112					FFOR-CF-0113					FFOR-CF-0078				
	SAMPLE DATE		5-Sep-14					5-Sep-14					21-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					15 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	0.073	J	0.22	0.049	0.049	ND	U	0.22	0.05	0.05	NS	--	--	--	--
	CHRYSENE	148	0.45		0.22	0.055	0.055	ND	U	0.22	0.056	0.056	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	**0.23**		0.22	0.064	0.064	ND	U	0.22	0.066	0.066	NS	--	--	--	--
	DIBENZOFURAN	78	ND	U	0.22	0.073	0.073	ND	U	0.22	0.074	0.074	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	ND	U	0.22	0.049	0.049	ND	U	0.22	0.05	0.05	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	ND	U	0.22	0.06	0.06	ND	U	0.22	0.061	0.061	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	ND	U	0.54	0.049	0.049	ND	U	0.55	0.05	0.05	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	ND	U	0.43	0.27	0.27	ND	U	0.44	0.28	0.28	NS	--	--	--	--
	FLUORANTHENE	2,290	0.58		0.22	0.049	0.049	ND	U	0.22	0.05	0.05	NS	--	--	--	--
	FLUORENE	2,290	ND	U	0.22	0.063	0.063	ND	U	0.22	0.065	0.065	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	ND	U	0.22	0.059	0.059	ND	U	0.22	0.06	0.06	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	ND	U	0.22	0.052	0.052	ND	U	0.22	0.053	0.053	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	ND	U	0.22	0.07	0.07	ND	U	0.22	0.071	0.071	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	ND	U	0.22	0.076	0.076	ND	U	0.22	0.078	0.078	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	0.65		0.22	0.072	0.072	ND	U	0.22	0.073	0.073	NS	--	--	--	--
	ISOPHORONE	5,120	ND	U	0.54	0.071	0.071	ND	U	0.55	0.073	0.073	NS	--	--	--	--
	NAPHTHALENE	43	ND	U	0.22	0.052	0.052	ND	U	0.22	0.053	0.053	NS	--	--	--	--
	NITROBENZENE	53.5	ND	U	0.54	0.06	0.06	ND	U	0.55	0.062	0.062	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	ND	U	0.22	0.082	0.082	ND	U	0.22	0.083	0.083	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	ND	U	0.22	0.072	0.072	ND	U	0.22	0.073	0.073	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	ND	U	0.22	0.063	0.063	ND	U	0.22	0.065	0.065	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	ND	U	0.43	0.088	0.088	ND	U	0.44	0.09	0.09	NS	--	--	--	--
	PHENANTHRENE	1,830	0.24		0.22	0.039	0.039	ND	U	0.22	0.04	0.04	NS	--	--	--	--
	PHENOL	18,300	ND	U	0.22	0.064	0.064	ND	U	0.22	0.065	0.065	NS	--	--	--	--
	PYRENE	1,720	0.6		0.22	0.059	0.059	ND	U	0.22	0.06	0.06	NS	--	--	--	--
	PYRIDINE	78	ND	U	0.54	0.06	0.06	ND	U	0.55	0.061	0.061	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	NS	--	--	--	--	NS	--	--	--	--	ND	U	0.043	0.012	0.012
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	ND	U	0.043	0.013	0.013
	ACENAPHTHENE	3,440	NS	--	--	--	--	NS	--	--	--	--	ND	U	0.043	0.014	0.014
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	0.093	J+	0.043	0.013	0.013
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	0.13	J+	0.043	0.013	0.013
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	0.63	J+	0.043	0.011	0.011
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	**0.95**	J+	0.043	0.016	0.016
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	1.4	J+	0.043	0.014	0.014
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	0.73	J+	0.043	0.012	0.012
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	0.51	J+	0.043	0.017	0.017
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	0.71	J+	0.043	0.0077	0.0077
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	**0.16**	J+	0.043	0.016	0.016
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	0.58	J+	0.043	0.013	0.013
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	ND	U	0.043	0.015	0.015
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	0.65	J+	0.043	0.015	0.015
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	ND	U	0.043	0.012	0.012
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	0.042	J+	0.043	0.012	0.012
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	0.51	J+	0.043	0.011	0.011

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-72					FFOR-EXC-73					FFOR-EXCSO-01				
	SAMPLE NO	FFOR-CF-0112					FFOR-CF-0113					FFOR-CF-0078				
	SAMPLE DATE	5-Sep-14					5-Sep-14					21-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					15 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	2-BUTANONE	37,100	ND	U	0.00754	0.00754	0.00754	ND	U	0.00743	0.00743	0.00743	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	2-HEXANONE	210	ND	U	0.00754	0.00754	0.00754	ND	U	0.00743	0.00743	0.00743	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	ND	U	0.00754	0.00754	0.00754	ND	U	0.00743	0.00743	0.00743	NS	--	--	--	--
	ACETONE	66,600	0.00909	J-	0.00754	0.00754	0.00754	0.0122	J-	0.00743	0.00743	0.00743	NS	--	--	--	--
	BENZENE	15.4	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	BROMOBENZENE	300	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	BROMOFORM	616	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	BROMOMETHANE	16.5	ND	UJ	0.00377	0.000754	0.000754	ND	UJ	0.00372	0.000743	0.000743	NS	--	--	--	--
	CARBON DISULFIDE	1,530	ND	U	0.00754	0.00754	0.00754	ND	U	0.00743	0.00743	0.00743	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CHLOROBENZENE	376	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CHLOROETHANE	29,800	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CHLOROFORM	5.86	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CHLOROMETHANE	275	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	DIBROMOMETHANE	51.6	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	ETHYLBENZENE	68.4	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXC-72					FFOR-EXC-73					FFOR-EXCSO-01				
	SAMPLE NO	FFOR-CF-0112					FFOR-CF-0113					FFOR-CF-0078				
	SAMPLE DATE	5-Sep-14					5-Sep-14					21-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					15 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	METHYLENE CHLORIDE	409	ND	U	0.00377	0.00151	0.00151	ND	U	0.00372	0.00149	0.00149	NS	--	--	--	--
	NAPHTHALENE	43	ND	U	0.00151	0.00151	0.00151	ND	U	0.00149	0.00149	0.00149	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	ND	UJ	0.00151	0.000754	0.000754	ND	UJ	0.00149	0.000743	0.000743	NS	--	--	--	--
	STYRENE	7,280	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TOLUENE	5,270	ND	U	0.00151	0.000754	0.000754	0.00112	J	0.00149	0.000743	0.000743	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TRICHLOROETHENE	8.77	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	VINYL ACETATE	2,560	ND	U	0.00754	0.00754	0.00754	ND	U	0.00743	0.00743	0.00743	NS	--	--	--	--
	VINYL CHLORIDE	0.728	ND	U	0.00151	0.000754	0.000754	ND	U	0.00149	0.000743	0.000743	NS	--	--	--	--
	XYLENES	814	ND	U	0.00151	0.00151	0.00151	ND	U	0.00149	0.00149	0.00149	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-02					FFOR-EXCSO-03					FFOR-EXCSO-04				
	SAMPLE NO		FFOR-CF-0079					FFOR-CF-0080					FFOR-CF-0081				
	SAMPLE DATE		24-Jul-14					24-Jul-14					24-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROPHENOL	122	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROPHENOL	391	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLPHENOL	3,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROANILINE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-NITROANILINE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROANILINE	2.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROANILINE	24	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENAMINE	85	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-02					FFOR-EXCSO-03					FFOR-EXCSO-04				
	SAMPLE NO		FFOR-CF-0079					FFOR-CF-0080					FFOR-CF-0081				
	SAMPLE DATE		24-Jul-14					24-Jul-14					24-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZOFURAN	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ISOPHORONE	5,120	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NITROBENZENE	53.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENOL	18,300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRIDINE	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	ND	U	0.021	0.0059	0.0059	ND	U	0.021	0.006	0.006	ND	U	0.021	0.006	0.006
	2-METHYLNAPHTHALENE	230	ND	U	0.021	0.0062	0.0062	ND	U	0.021	0.0063	0.0063	ND	U	0.021	0.0063	0.0063
	ACENAPHTHENE	3,440	ND	U	0.021	0.0066	0.0066	ND	U	0.021	0.0067	0.0067	ND	U	0.021	0.0067	0.0067
	ACENAPHTHYLENE	NE	ND	U	0.021	0.0063	0.0063	ND	U	0.021	0.0064	0.0064	ND	U	0.021	0.0064	0.0064
	ANTHRACENE	17,200	0.011	J	0.021	0.0063	0.0063	ND	U	0.021	0.0064	0.0064	0.0067	J	0.021	0.0064	0.0064
	BENZO(A)ANTHRACENE	1.48	ND	U	0.021	0.0054	0.0054	ND	U	0.021	0.0055	0.0055	ND	U	0.021	0.0054	0.0054
	BENZO(A)PYRENE	0.148	ND	U	0.021	0.008	0.008	0.012	J	0.021	0.0081	0.0081	ND	U	0.021	0.0081	0.0081
	BENZO(B)FLUORANTHENE	1.48	0.018	J	0.021	0.0068	0.0068	0.032		0.021	0.007	0.007	ND	U	0.021	0.0069	0.0069
	BENZO(GHI)PERYLENE	NE	ND	U	0.021	0.0061	0.0061	0.079		0.021	0.0062	0.0062	0.0064	J	0.021	0.0062	0.0062
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.021	0.0085	0.0085	ND	U	0.021	0.0087	0.0087	ND	U	0.021	0.0086	0.0086
	CHRYSENE	148	ND	U	0.021	0.0038	0.0038	0.0096	J	0.021	0.0039	0.0039	0.005	J	0.021	0.0038	0.0038
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.021	0.0077	0.0077	ND	U	0.021	0.0078	0.0078	ND	U	0.021	0.0078	0.0078
	FLUORANTHENE	2,290	ND	U	0.021	0.0065	0.0065	0.012	J	0.021	0.0066	0.0066	ND	U	0.021	0.0066	0.0066
	FLUORENE	2,290	ND	U	0.021	0.0076	0.0076	ND	U	0.021	0.0077	0.0077	ND	U	0.021	0.0077	0.0077
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.021	0.0072	0.0072	0.037		0.021	0.0073	0.0073	ND	U	0.021	0.0072	0.0072
	NAPHTHALENE	43	ND	U	0.021	0.0059	0.0059	ND	U	0.021	0.006	0.006	ND	U	0.021	0.006	0.006
	PHENANTHRENE	1,830	ND	U	0.021	0.006	0.006	ND	U	0.021	0.0061	0.0061	ND	U	0.021	0.0061	0.0061
	PYRENE	1,720	ND	U	0.021	0.0052	0.0052	0.012	J	0.021	0.0052	0.0052	0.006	J	0.021	0.0052	0.0052

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-02					FFOR-EXCSO-03					FFOR-EXCSO-04				
	SAMPLE NO		FFOR-CF-0079					FFOR-CF-0080					FFOR-CF-0081				
	SAMPLE DATE		24-Jul-14					24-Jul-14					24-Jul-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-BUTANONE	37,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-HEXANONE	210	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACETONE	66,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENE	15.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOBENZENE	300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOFORM	616	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOMETHANE	16.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON DISULFIDE	1,530	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROBENZENE	376	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROETHANE	29,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROFORM	5.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROMETHANE	275	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOMETHANE	51.6	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ETHYLBENZENE	68.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-02					FFOR-EXCSO-03					FFOR-EXCSO-04				
	SAMPLE NO	FFOR-CF-0079					FFOR-CF-0080					FFOR-CF-0081				
	SAMPLE DATE	24-Jul-14					24-Jul-14					24-Jul-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	2.5 FT					5 FT					2.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYLENE CHLORIDE	409	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	STYRENE	7,280	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TOLUENE	5,270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROETHENE	8.77	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL ACETATE	2,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL CHLORIDE	0.728	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	XYLENES	814	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-05					FFOR-EXCSO-06					FFOR-EXCSO-07				
	SAMPLE NO		FFOR-CF-0082					FFOR-CF-0083					FFOR-CF-0084				
	SAMPLE DATE		15-Aug-14					3-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROPHENOL	122	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROPHENOL	391	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLPHENOL	3,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROANILINE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-NITROANILINE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROANILINE	2.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROANILINE	24	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENAMINE	85	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-05					FFOR-EXCSO-06					FFOR-EXCSO-07				
	SAMPLE NO		FFOR-CF-0082					FFOR-CF-0083					FFOR-CF-0084				
	SAMPLE DATE		15-Aug-14					3-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZOFURAN	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ISOPHORONE	5,120	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NITROBENZENE	53.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENOL	18,300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRIDINE	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	ND	U	0.022	0.0062	0.0062	ND	U	0.02	0.0056	0.0056	ND	U	0.02	0.0056	0.0056
	2-METHYLNAPHTHALENE	230	ND	U	0.022	0.0065	0.0065	ND	U	0.02	0.0059	0.0059	ND	U	0.02	0.0059	0.0059
	ACENAPHTHENE	3,440	ND	U	0.022	0.007	0.007	ND	U	0.02	0.0063	0.0063	ND	U	0.02	0.0063	0.0063
	ACENAPHTHYLENE	NE	ND	U	0.022	0.0066	0.0066	ND	U	0.02	0.006	0.006	ND	U	0.02	0.006	0.006
	ANTHRACENE	17,200	ND	U	0.022	0.0066	0.0066	ND	U	0.02	0.006	0.006	ND	U	0.02	0.006	0.006
	BENZO(A)ANTHRACENE	1.48	ND	U	0.022	0.0056	0.0056	ND	U	0.02	0.0051	0.0051	ND	U	0.02	0.0051	0.0051
	BENZO(A)PYRENE	0.148	ND	U	0.022	0.0084	0.0084	ND	U	0.02	0.0076	0.0076	ND	U	0.02	0.0076	0.0076
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.022	0.0072	0.0072	0.061		0.02	0.0065	0.0065	0.035		0.02	0.0065	0.0065
	BENZO(GHI)PERYLENE	NE	ND	U	0.022	0.0064	0.0064	0.077		0.02	0.0058	0.0058	0.025		0.02	0.0058	0.0058
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.022	0.009	0.009	ND	U	0.02	0.0081	0.0081	ND	U	0.02	0.0081	0.0081
	CHRYSENE	148	ND	U	0.022	0.004	0.004	0.0097	J	0.02	0.0036	0.0036	0.0073	J	0.02	0.0036	0.0036
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.022	0.0081	0.0081	0.011	J	0.02	0.0073	0.0073	0.0087	J	0.02	0.0073	0.0073
	FLUORANTHENE	2,290	ND	U	0.022	0.0069	0.0069	ND	U	0.02	0.0062	0.0062	ND	U	0.02	0.0062	0.0062
	FLUORENE	2,290	ND	U	0.022	0.008	0.008	ND	U	0.02	0.0072	0.0072	ND	U	0.02	0.0072	0.0072
	INDENO(1,2,3-CD)PYRENE	1.48	ND	U	0.022	0.0075	0.0075	0.055		0.02	0.0068	0.0068	0.025		0.02	0.0068	0.0068
	NAPHTHALENE	43	ND	U	0.022	0.0062	0.0062	ND	U	0.02	0.0056	0.0056	ND	U	0.02	0.0056	0.0056
	PHENANTHRENE	1,830	ND	U	0.022	0.0063	0.0063	ND	U	0.02	0.0057	0.0057	ND	U	0.02	0.0057	0.0057
	PYRENE	1,720	ND	U	0.022	0.0054	0.0054	0.007	J	0.02	0.0049	0.0049	ND	U	0.02	0.0049	0.0049

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-05					FFOR-EXCSO-06					FFOR-EXCSO-07				
	SAMPLE NO		FFOR-CF-0082					FFOR-CF-0083					FFOR-CF-0084				
	SAMPLE DATE		15-Aug-14					3-Sep-14					5-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		7.5 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-BUTANONE	37,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-HEXANONE	210	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACETONE	66,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENE	15.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOBENZENE	300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOFORM	616	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOMETHANE	16.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON DISULFIDE	1,530	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROBENZENE	376	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROETHANE	29,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROFORM	5.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROMETHANE	275	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOMETHANE	51.6	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ETHYLBENZENE	68.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-05					FFOR-EXCSO-06					FFOR-EXCSO-07				
	SAMPLE NO	FFOR-CF-0082					FFOR-CF-0083					FFOR-CF-0084				
	SAMPLE DATE	15-Aug-14					3-Sep-14					5-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	7.5 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYLENE CHLORIDE	409	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	STYRENE	7,280	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TOLUENE	5,270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROETHENE	8.77	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL ACETATE	2,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL CHLORIDE	0.728	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	XYLENES	814	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-07					FFOR-EXCSO-08					FFOR-EXCSO-09				
	SAMPLE NO		FFOR-CF-0085					FFOR-CF-0086					FFOR-CF-0087				
	SAMPLE DATE		5-Sep-14					8-Sep-14					8-Sep-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROPHENOL	122	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROPHENOL	391	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLPHENOL	3,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROANILINE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-NITROANILINE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROANILINE	2.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROANILINE	24	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENAMINE	85	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-07					FFOR-EXCSO-08					FFOR-EXCSO-09				
	SAMPLE NO	FFOR-CF-0085					FFOR-CF-0086					FFOR-CF-0087				
	SAMPLE DATE	5-Sep-14					8-Sep-14					8-Sep-14				
	SAMPLE PURPOSE	FD					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZOFURAN	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ISOPHORONE	5,120	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NITROBENZENE	53.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENOL	18,300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRIDINE	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	ND	U	0.02	0.0056	0.0056	ND	U	0.02	0.0056	0.0056	ND	U	0.04	0.011	0.011
	2-METHYLNAPHTHALENE	230	ND	U	0.02	0.0059	0.0059	ND	U	0.02	0.0059	0.0059	ND	U	0.04	0.012	0.012
	ACENAPHTHENE	3,440	ND	U	0.02	0.0063	0.0063	ND	U	0.02	0.0063	0.0063	ND	U	0.04	0.013	0.013
	ACENAPHTHYLENE	NE	ND	U	0.02	0.006	0.006	ND	U	0.02	0.006	0.006	ND	U	0.04	0.012	0.012
	ANTHRACENE	17,200	ND	U	0.02	0.006	0.006	ND	U	0.02	0.006	0.006	ND	U	0.04	0.012	0.012
	BENZO(A)ANTHRACENE	1.48	ND	U	0.02	0.0051	0.0051	ND	U	0.02	0.0051	0.0051	0.021	J	0.04	0.01	0.01
	BENZO(A)PYRENE	0.148	0.011	J	0.02	0.0076	0.0076	ND	U	0.02	0.0076	0.0076	0.032	J	0.04	0.015	0.015
	BENZO(B)FLUORANTHENE	1.48	0.043		0.02	0.0065	0.0065	ND	U	0.02	0.0065	0.0065	0.065		0.04	0.013	0.013
	BENZO(GHI)PERYLENE	NE	0.028		0.02	0.0058	0.0058	ND	U	0.02	0.0058	0.0058	0.057		0.04	0.012	0.012
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.02	0.0081	0.0081	ND	U	0.02	0.0081	0.0081	ND	U	0.04	0.016	0.016
	CHRYSENE	148	0.0093	J	0.02	0.0036	0.0036	ND	U	0.02	0.0036	0.0036	0.037	J	0.04	0.0072	0.0072
	DIBENZO(A,H)ANTHRACENE	0.148	0.0093	J	0.02	0.0073	0.0073	ND	U	0.02	0.0073	0.0073	ND	U	0.04	0.015	0.015
	FLUORANTHENE	2,290	ND	U	0.02	0.0062	0.0062	ND	U	0.02	0.0062	0.0062	0.018	J	0.04	0.012	0.012
	FLUORENE	2,290	ND	U	0.02	0.0072	0.0072	ND	U	0.02	0.0072	0.0072	ND	U	0.04	0.014	0.014
	INDENO(1,2,3-CD)PYRENE	1.48	0.029		0.02	0.0068	0.0068	ND	U	0.02	0.0068	0.0068	0.033	J	0.04	0.014	0.014
	NAPHTHALENE	43	ND	U	0.02	0.0056	0.0056	ND	U	0.02	0.0056	0.0056	ND	U	0.04	0.011	0.011
	PHENANTHRENE	1,830	ND	U	0.02	0.0057	0.0057	ND	U	0.02	0.0057	0.0057	ND	U	0.04	0.011	0.011
	PYRENE	1,720	ND	U	0.02	0.0049	0.0049	ND	U	0.02	0.0049	0.0049	0.021	J	0.04	0.0098	0.0098

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-07					FFOR-EXCSO-08					FFOR-EXCSO-09				
	SAMPLE NO		FFOR-CF-0085					FFOR-CF-0086					FFOR-CF-0087				
	SAMPLE DATE		5-Sep-14					8-Sep-14					8-Sep-14				
	SAMPLE PURPOSE		FD					REG					REG				
	SAMPLE DEPTH		10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-BUTANONE	37,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-HEXANONE	210	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACETONE	66,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENE	15.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOBENZENE	300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOFORM	616	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOMETHANE	16.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON DISULFIDE	1,530	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROBENZENE	376	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROETHANE	29,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROFORM	5.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROMETHANE	275	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOMETHANE	51.6	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ETHYLBENZENE	68.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-07					FFOR-EXCSO-08					FFOR-EXCSO-09				
	SAMPLE NO	FFOR-CF-0085					FFOR-CF-0086					FFOR-CF-0087				
	SAMPLE DATE	5-Sep-14					8-Sep-14					8-Sep-14				
	SAMPLE PURPOSE	FD					REG					REG				
	SAMPLE DEPTH	10 FT					10 FT					10 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYLENE CHLORIDE	409	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	STYRENE	7,280	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TOLUENE	5,270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROETHENE	8.77	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL ACETATE	2,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL CHLORIDE	0.728	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	XYLENES	814	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-10					FFOR-EXCSO-11					FFOR-EXCSO-12				
	SAMPLE NO		FFOR-CF-0088					FFOR-CF-0089					FFOR-CF-0090				
	SAMPLE DATE		8-Sep-14					10-Sep-14					11-Sep-14				
	SAMPLE PURPOSE		REG					REG					REG				
	SAMPLE DEPTH		10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROPHENOL	122	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROPHENOL	391	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-METHYLPHENOL	3,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROANILINE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	3-NITROANILINE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROANILINE	2.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROANILINE	24	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-NITROPHENOL	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHENE	3440	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENAMINE	85	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-10					FFOR-EXCSO-11					FFOR-EXCSO-12				
	SAMPLE NO	FFOR-CF-0088					FFOR-CF-0089					FFOR-CF-0090				
	SAMPLE DATE	8-Sep-14					10-Sep-14					11-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBENZOFURAN	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ISOPHORONE	5,120	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NITROBENZENE	53.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PHENOL	18,300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	PYRIDINE	78	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	0.33		0.02	0.0056	0.0056	0.079		0.02	0.0056	0.0056	ND	U	0.04	0.011	0.011
	2-METHYLNAPHTHALENE	230	ND	U	0.02	0.0059	0.0059	0.068		0.02	0.0059	0.0059	ND	U	0.04	0.012	0.012
	ACENAPHTHENE	3,440	ND	U	0.02	0.0063	0.0063	ND	U	0.02	0.0063	0.0063	0.023	J+	0.04	0.013	0.013
	ACENAPHTHYLENE	NE	ND	U	0.02	0.006	0.006	ND	U	0.02	0.006	0.006	ND	U	0.04	0.012	0.012
	ANTHRACENE	17,200	0.019	J	0.02	0.006	0.006	ND	U	0.02	0.006	0.006	0.037	J+	0.04	0.012	0.012
	BENZO(A)ANTHRACENE	1.48	0.091		0.02	0.0051	0.0051	0.0056	J	0.02	0.0051	0.0051	0.12	J+	0.04	0.01	0.01
	BENZO(A)PYRENE	0.148	0.081		0.02	0.0076	0.0076	ND	U	0.02	0.0076	0.0076	0.11	J+	0.04	0.015	0.015
	BENZO(B)FLUORANTHENE	1.48	0.2		0.02	0.0065	0.0065	0.032		0.02	0.0065	0.0065	0.26	J+	0.04	0.013	0.013
	BENZO(GHI)PERYLENE	NE	0.034		0.02	0.0058	0.0058	0.013	J	0.02	0.0058	0.0058	0.75	J+	0.04	0.012	0.012
	BENZO(K)FLUORANTHENE	14.8	0.044		0.02	0.0081	0.0081	ND	U	0.02	0.0081	0.0081	ND	U	0.04	0.016	0.016
	CHRYSENE	148	0.11		0.02	0.0036	0.0036	0.008	J	0.02	0.0036	0.0036	0.11	J+	0.04	0.0072	0.0072
	DIBENZO(A,H)ANTHRACENE	0.148	0.011	J	0.02	0.0073	0.0073	0.0083	J	0.02	0.0073	0.0073	**0.32**	J+	0.04	0.015	0.015
	FLUORANTHENE	2,290	0.13		0.02	0.0062	0.0062	0.0086	J	0.02	0.0062	0.0062	0.21	J+	0.04	0.012	0.012
	FLUORENE	2,290	0.024		0.02	0.0072	0.0072	ND	U	0.02	0.0072	0.0072	0.017	J+	0.04	0.014	0.014
	INDENO(1,2,3-CD)PYRENE	1.48	0.038		0.02	0.0068	0.0068	0.016	J	0.02	0.0068	0.0068	0.26	J+	0.04	0.014	0.014
	NAPHTHALENE	43	0.01	J	0.02	0.0056	0.0056	0.013	J	0.02	0.0056	0.0056	0.011	J+	0.04	0.011	0.011
	PHENANTHRENE	1,830	0.069		0.02	0.0057	0.0057	0.0066	J	0.02	0.0057	0.0057	0.14	J+	0.04	0.011	0.011
	PYRENE	1,720	0.15		0.02	0.0049	0.0049	0.027		0.02	0.0049	0.0049	0.18	J+	0.04	0.0098	0.0098

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-10					FFOR-EXCSO-11					FFOR-EXCSO-12				
	SAMPLE NO	FFOR-CF-0088					FFOR-CF-0089					FFOR-CF-0090				
	SAMPLE DATE	8-Sep-14					10-Sep-14					11-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-BUTANONE	37,100	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	2-HEXANONE	210	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ACETONE	66,600	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BENZENE	15.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOBENZENE	300	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOFORM	616	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	BROMOMETHANE	16.5	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON DISULFIDE	1,530	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROBENZENE	376	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROETHANE	29,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROFORM	5.86	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CHLOROMETHANE	275	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DIBROMOMETHANE	51.6	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	ETHYLBENZENE	68.4	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-10					FFOR-EXCSO-11					FFOR-EXCSO-12				
	SAMPLE NO	FFOR-CF-0088					FFOR-CF-0089					FFOR-CF-0090				
	SAMPLE DATE	8-Sep-14					10-Sep-14					11-Sep-14				
	SAMPLE PURPOSE	REG					REG					REG				
	SAMPLE DEPTH	10 FT					20 FT					7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	METHYLENE CHLORIDE	409	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	STYRENE	7,280	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TOLUENE	5,270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROETHENE	8.77	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL ACETATE	2,560	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	VINYL CHLORIDE	0.728	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--
	XYLENES	814	NS	--	--	--	--	NS	--	--	--	--	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-8

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea:

EPA = U.S. Environmental Protection Agency.

J = estimated value, concentration is less than LOQ but greater than laboratory method dete

J+ = estimated value, concentration is less than LOQ but greater than laboratory method det

J- = estimated value, concentration is less than LOQ but greater than laboratory method dete

LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable

ND = Not detected.

NE = Not established.

NMED = New Mexico Environment Department.

PAH = Polynuclear aromatic hydrocarbon.

SVOC = Semivolatile organic compound.

TPH = Total petroleum hydrocarbon.

U = Analyte was not detected. The reported numerical value is at or below the LOQ.

UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D

Val Qual = Validation Qualifier.

VOC = Volatile organic compound.

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-13				
	SAMPLE NO		FFOR-CF-0091				
	SAMPLE DATE		16-Sep-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
Metals (mg/kg) Method 6010B	LEAD	400	NS	--	--	--	--
TPH (mg/kg) EPA Method 8015D	DIESEL RANGE ORGANICS (DRO)	1000[c]	NS	--	--	--	--
	GASOLINE RANGE ORGANICS (GRO)	1000[c]	NS	--	--	--	--
	MOTOR OIL RANGE ORGANICS (MRO)	1000[c]	NS	--	--	--	--
SVOCs (mg/kg) EPA Method 8270C	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--
	2,4,5-TRICHLOROPHENOL	6,110	NS	--	--	--	--
	2,4,6-TRICHLOROPHENOL	61.1	NS	--	--	--	--
	2,4-DICHLOROPHENOL	183	NS	--	--	--	--
	2,4-DIMETHYLPHENOL	1,220	NS	--	--	--	--
	2,4-DINITROPHENOL	122	NS	--	--	--	--
	2,4-DINITROTOLUENE	15.7	NS	--	--	--	--
	2,6-DINITROTOLUENE	61.1	NS	--	--	--	--
	2-CHLORONAPHTHALENE	6,260	NS	--	--	--	--
	2-CHLOROPHENOL	391	NS	--	--	--	--
	2-METHYLNAPHTHALENE	230	NS	--	--	--	--
	2-METHYLPHENOL	3,100	NS	--	--	--	--
	2-NITROANILINE	610	NS	--	--	--	--
	2-NITROPHENOL	NE	NS	--	--	--	--
	3,3'-DICHLOROBENZIDINE	10.8	NS	--	--	--	--
	3-METHYLPHENOL AND 4-METHYLPHENOL	NE	NS	--	--	--	--
	3-NITROANILINE	NE	NS	--	--	--	--
	4,6-DINITRO-2-METHYLPHENOL	4.89	NS	--	--	--	--
	4-BROMOPHENYL PHENYL ETHER	NE	NS	--	--	--	--
	4-CHLORO-3-METHYLPHENOL	6,100	NS	--	--	--	--
	4-CHLOROANILINE	2.4	NS	--	--	--	--
	4-CHLOROPHENYL PHENYL ETHER	NE	NS	--	--	--	--
	4-NITROANILINE	24	NS	--	--	--	--
	4-NITROPHENOL	NE	NS	--	--	--	--
	ACENAPHTHENE	3440	NS	--	--	--	--
	ACENAPHTHYLENE	NE	NS	--	--	--	--
	ANTHRACENE	17,200	NS	--	--	--	--
	BENZENAMINE	85	NS	--	--	--	--
	BENZO(A)ANTHRACENE	1.48	NS	--	--	--	--
	BENZO(A)PYRENE	0.148	NS	--	--	--	--
	BENZO(B)FLUORANTHENE	1.48	NS	--	--	--	--
	BENZO(GHI)PERYLENE	NE	NS	--	--	--	--
	BENZO(K)FLUORANTHENE	14.8	NS	--	--	--	--
	BIS(2-CHLOROETHOXY)METHANE	180	NS	--	--	--	--
	BIS(2-CHLOROETHYL)ETHER	2.68	NS	--	--	--	--
	BIS(2-CHLOROISOPROPYL)ETHER	91.5	NS	--	--	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE	347	NS	--	--	--	--
	BUTYL BENZYL PHTHALATE	260	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-13				
	SAMPLE NO		FFOR-CF-0091				
	SAMPLE DATE		16-Sep-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
SVOCs (mg/kg) EPA Method 8270C	CARBAZOLE	NE	NS	--	--	--	--
	CHRYSENE	148	NS	--	--	--	--
	DIBENZO(A,H)ANTHRACENE	0.148	NS	--	--	--	--
	DIBENZOFURAN	78	NS	--	--	--	--
	DIETHYL PHTHALATE	48,900	NS	--	--	--	--
	DIMETHYL PHTHALATE	611,000	NS	--	--	--	--
	DI-N-BUTYL PHTHALATE	6,110	NS	--	--	--	--
	DI-N-OCTYL PHTHALATE	610	NS	--	--	--	--
	FLUORANTHENE	2,290	NS	--	--	--	--
	FLUORENE	2,290	NS	--	--	--	--
	HEXACHLOROBENZENE	3.04	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--
	HEXACHLOROCYCLOPENTADIENE	367	NS	--	--	--	--
	HEXACHLOROETHANE	42.8	NS	--	--	--	--
	INDENO(1,2,3-CD)PYRENE	1.48	NS	--	--	--	--
	ISOPHORONE	5,120	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--
	NITROBENZENE	53.5	NS	--	--	--	--
	N-NITROSODIMETHYLAMINE	0.0226	NS	--	--	--	--
	N-NITROSO-DI-N-PROPYLAMINE	0.069	NS	--	--	--	--
	N-NITROSODIPHENYLAMINE	993	NS	--	--	--	--
	PENTACHLOROPHENOL	8.94	NS	--	--	--	--
	PHENANTHRENE	1,830	NS	--	--	--	--
	PHENOL	18,300	NS	--	--	--	--
	PYRENE	1,720	NS	--	--	--	--
	PYRIDINE	78	NS	--	--	--	--
PAHs (mg/kg) EPA Method 8270C SIM	1-METHYL NAPHTHALENE	16	ND	U	0.02	0.0055	0.0055
	2-METHYLNAPHTHALENE	230	ND	U	0.02	0.0058	0.0058
	ACENAPHTHENE	3,440	ND	U	0.02	0.0062	0.0062
	ACENAPHTHYLENE	NE	ND	U	0.02	0.0059	0.0059
	ANTHRACENE	17,200	ND	U	0.02	0.0059	0.0059
	BENZO(A)ANTHRACENE	1.48	ND	U	0.02	0.005	0.005
	BENZO(A)PYRENE	0.148	ND	U	0.02	0.0075	0.0075
	BENZO(B)FLUORANTHENE	1.48	ND	U	0.02	0.0064	0.0064
	BENZO(GHI)PERYLENE	NE	0.013	J	0.02	0.0057	0.0057
	BENZO(K)FLUORANTHENE	14.8	ND	U	0.02	0.008	0.008
	CHRYSENE	148	ND	U	0.02	0.0036	0.0036
	DIBENZO(A,H)ANTHRACENE	0.148	ND	U	0.02	0.0072	0.0072
	FLUORANTHENE	2,290	ND	U	0.02	0.0061	0.0061
	FLUORENE	2,290	ND	U	0.02	0.0071	0.0071
	INDENO(1,2,3-CD)PYRENE	1.48	0.013	J	0.02	0.0067	0.0067
	NAPHTHALENE	43	ND	U	0.02	0.0055	0.0055
	PHENANTHRENE	1,830	ND	U	0.02	0.0056	0.0056
	PYRENE	1,720	ND	U	0.02	0.0048	0.0048

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE	FFOR-EXCSO-13					
	SAMPLE NO	FFOR-CF-0091					
	SAMPLE DATE	16-Sep-14					
	SAMPLE PURPOSE	REG					
	SAMPLE DEPTH	7.5 FT					
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	1,1,1,2-TETRACHLOROETHANE	29.1	NS	--	--	--	--
	1,1,1-TRICHLOROETHANE	15,600	NS	--	--	--	--
	1,1,2,2-TETRACHLOROETHANE	8.02	NS	--	--	--	--
	1,1,2-TRICHLOROETHANE	2.81	NS	--	--	--	--
	1,1-DICHLOROETHANE	64.5	NS	--	--	--	--
	1,1-DICHLOROETHENE	449	NS	--	--	--	--
	1,1-DICHLOROPROPENE	NE	NS	--	--	--	--
	1,2,3-TRICHLOROBENZENE	48.9	NS	--	--	--	--
	1,2,3-TRICHLOROPROPANE	0.0497	NS	--	--	--	--
	1,2,4-TRICHLOROBENZENE	73	NS	--	--	--	--
	1,2,4-TRIMETHYLBENZENE	62	NS	--	--	--	--
	1,2-DIBROMO-3-CHLOROPROPANE	1.86	NS	--	--	--	--
	1,2-DIBROMOETHANE	0.588	NS	--	--	--	--
	1,2-DICHLOROBENZENE	2,310	NS	--	--	--	--
	1,2-DICHLOROETHANE	7.89	NS	--	--	--	--
	1,2-DICHLOROPROPANE	15.2	NS	--	--	--	--
	1,3,5-TRIMETHYLBENZENE	780	NS	--	--	--	--
	1,3-DICHLOROBENZENE	NE	NS	--	--	--	--
	1,3-DICHLOROPROPANE	1,600	NS	--	--	--	--
	1,4-DICHLOROBENZENE	31.7	NS	--	--	--	--
	2,2-DICHLOROPROPANE	NE	NS	--	--	--	--
	2-BUTANONE	37,100	NS	--	--	--	--
	2-CHLOROTOLUENE	1,560	NS	--	--	--	--
	2-HEXANONE	210	NS	--	--	--	--
	4-CHLOROTOLUENE	1,600	NS	--	--	--	--
	4-METHYL-2-PENTANONE	5821.1142	NS	--	--	--	--
	ACETONE	66,600	NS	--	--	--	--
	BENZENE	15.4	NS	--	--	--	--
	BROMOBENZENE	300	NS	--	--	--	--
	BROMOCHLOROMETHANE	160	NS	--	--	--	--
	BROMODICHLOROMETHANE	5.41	NS	--	--	--	--
	BROMOFORM	616	NS	--	--	--	--
	BROMOMETHANE	16.5	NS	--	--	--	--
	CARBON DISULFIDE	1,530	NS	--	--	--	--
	CARBON TETRACHLORIDE	10.8	NS	--	--	--	--
	CHLOROBENZENE	376	NS	--	--	--	--
	CHLOROETHANE	29,800	NS	--	--	--	--
	CHLOROFORM	5.86	NS	--	--	--	--
	CHLOROMETHANE	275	NS	--	--	--	--
	CIS-1,2-DICHLOROETHENE	156	NS	--	--	--	--
	CIS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--
	DIBROMOCHLOROMETHANE	12.1	NS	--	--	--	--
	DIBROMOMETHANE	51.6	NS	--	--	--	--
	DICHLORODIFLUOROMETHANE	168	NS	--	--	--	--
	ETHYLBENZENE	68.4	NS	--	--	--	--
	HEXACHLOROBUTADIENE	61.1	NS	--	--	--	--

Appendix E 2014 Confirmation and Step-Out Sample Analytical Results

	LOCATION CODE		FFOR-EXCSO-13				
	SAMPLE NO		FFOR-CF-0091				
	SAMPLE DATE		16-Sep-14				
	SAMPLE PURPOSE		REG				
	SAMPLE DEPTH		7.5 FT				
Chemical Class & Analytical Method[a]	Parameter	NMED Residential SSLs[b]	Result	VAL QUAL	LOQ	DL	LOD
VOCs (mg/kg) EPA Method 8260B	ISOPROPYLBENZENE	2,430	NS	--	--	--	--
	METHYL TERT-BUTYL ETHER	901	NS	--	--	--	--
	METHYLENE CHLORIDE	409	NS	--	--	--	--
	NAPHTHALENE	43	NS	--	--	--	--
	N-BUTYLBENZENE	3,900	NS	--	--	--	--
	N-PROPYLBENZENE	3,400	NS	--	--	--	--
	P-ISOPROPYLTOLUENE	NE	NS	--	--	--	--
	SEC-BUTYLBENZENE	7,800	NS	--	--	--	--
	STYRENE	7,280	NS	--	--	--	--
	TERT-BUTYLBENZENE	7,800	NS	--	--	--	--
	TETRACHLOROETHENE	7.02	NS	--	--	--	--
	TOLUENE	5,270	NS	--	--	--	--
	TRANS-1,2-DICHLOROETHENE	270	NS	--	--	--	--
	TRANS-1,3-DICHLOROPROPENE	NE	NS	--	--	--	--
	TRICHLOROETHENE	8.77	NS	--	--	--	--
	TRICHLOROFLUOROMETHANE	1,410	NS	--	--	--	--
	VINYL ACETATE	2,560	NS	--	--	--	--
	VINYL CHLORIDE	0.728	NS	--	--	--	--
	XYLENES	814	NS	--	--	--	--

[a] Test Methods for Evaluating Soil Waste Physical/Chemical Methods, EPA Publication SW-

[b] Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1 Soil Sc
Technical Background Document, NMED Soil Screening Levels, Hazardous Waste Bureau a
Quality Bureau Voluntary Remediation Program, New Mexico Environment Department, San
February, Table A-1 Updated June 2012.

[c] Value is for jet fuel from Table 6-2 of Risk Assessment Guidance for Site Investigations and
Remediation, Volume 1, Tier 1, NMED, 2012 (updated June 2012). Excavations were not dri
TPH concentrations.

Shading indicates the analyte was detected.

Bold indicated analyte detected greater than regulatory standard

DL = Detection Limit, defined as the minimum concentration of a substance that can be mea
EPA = U.S. Environmental Protection Agency.
J = estimated value, concentration is less than LOQ but greater than laboratory method dete
J+ = estimated value, concentration is less than LOQ but greater than laboratory method det
J- = estimated value, concentration is less than LOQ but greater than laboratory method dete
LOQ = Limit of Quantitation, the minimum level, concentration, or quantity of a target variable
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
PAH = Polynuclear aromatic hydrocarbon.
SVOC = Semivolatile organic compound.
TPH = Total petroleum hydrocarbon.
U = Analyte was not detected. The reported numerical value is at or below the LOQ.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the D
Val Qual = Validation Qualifier.
VOC = Volatile organic compound.

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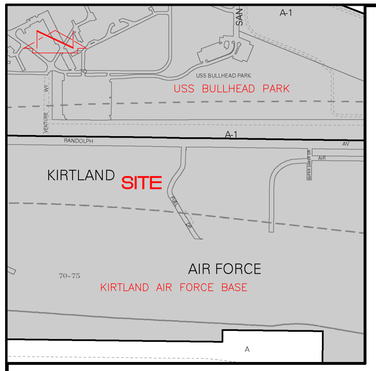
APPENDIX F

Survey Data



VICINITY MAP M-18

SCALE: 1" = 750'

SCALE: 1" = 50'

50 0 100

20 50

LEGEND

C60⊕ SAMPLE POINT DESIGNATION FFOR-EXC-60 (TYPICAL)

S04⊕ SAMPLE POINT DESIGNATION FFOR-EXCSO-04 (TYPICAL)

EXCAVATION LIMITS

CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT THE SITE ON SEPTEMBER 05, 2013 AND VERIFIED ON SEPTEMBER 25, 2014. CONTROL WAS PROJECTED ONTO THE SUBJECT SITE UTILIZING RTK GPS OBSERVATIONS COMBINED WITH COAJUL08 TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS BASED UPON NAD83/NAVD 88 DATUM. THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY. AN AGRS BENCHMARK AND A SEPARATE HORIZONTAL CONTROL STATION IN THE VICINITY OF THE PROJECT WERE OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. THE CONTROL STATION USED FOR THIS PROJECT IS "AGRS 1-M18".

GENERAL NOTES

1. An Unclassified Survey for sample point locations and excavation limits was performed on September 25, 2014. This is not a boundary survey.
2. Sample Point and excavation limit locations are grid coordinates.
3. Site located within Section 36, Township 10 North, Range 3 East, N.M.P.M.
4. This Unclassified Survey has been prepared based upon NAVD 88 Datum. Previous surveys of this area conducted by other consultants may have been conducted based upon NGVD 29 datum. Special care should be exercised when comparing elevations from this survey to current and previous surveys, plans and as-built documents.
5. The photobased image, depicted on this survey, was imported from the 2011 National Agricultural Imagery Program (NAIP). This photobase image is shown to provide a general site orientation and may not reflect the current site conditions.

SURVEYORS CERTIFICATION

I, Joseph M. Solomon, Jr., New Mexico Professional Surveyor No. 15075, do hereby certify; that this Unclassified Survey and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that this survey meets the Minimum Standards for Surveying in New Mexico, and that it is true and correct to the best of my knowledge and belief.

Joseph M. Solomon, Jr., NMPS 15075 Date

COORDINATE TABLE

SAMPLE POINT	NORTHING	EASTING	ELEVATION
FFOR-EXC-01	1473512.86	1541188.77	5343.48
FFOR-EXC-02	1473518.61	1541183.13	5343.42
FFOR-EXC-03	1473524.09	1541194.56	5343.52
FFOR-EXC-04	1473518.22	1541193.11	5343.46
FFOR-EXC-05	1473514.66	1541249.26	5343.23
FFOR-EXC-06	1473511.99	1541252.53	5343.27
FFOR-EXC-07	1473519.02	1541286.98	5343.25
FFOR-EXC-08	1473514.99	1541290.23	5343.28
FFOR-EXC-09	1473514.86	1541283.72	5343.21
FFOR-EXC-10	1473520.72	1541309.70	5342.97
FFOR-EXC-11	1473523.65	1541315.70	5343.16
FFOR-EXC-12	1473519.90	1541321.11	5343.17
FFOR-EXC-13	1473517.68	1541315.02	5342.97
FFOR-EXC-14	1473520.71	1541315.07	5343.06
FFOR-EXC-15	1473045.69	1541575.58	5342.17
FFOR-EXC-16	1473053.24	1541586.40	5342.90
FFOR-EXC-17	1473044.37	1541598.36	5342.04
FFOR-EXC-18	1473039.22	1541588.08	5342.05
FFOR-EXC-19	1473045.49	1541587.04	5342.48
FFOR-EXC-20	1473043.95	1541652.70	5342.35
FFOR-EXC-21	1473048.63	1541664.59	5342.97
FFOR-EXC-22	1473042.86	1541676.17	5342.20
FFOR-EXC-23	1473038.19	1541664.77	5341.80
FFOR-EXC-24	1473043.04	1541665.27	5342.33
FFOR-EXC-25	1472981.28	1542388.13	5345.75
FFOR-EXC-26	1472994.17	1542381.79	5346.10
FFOR-EXC-27	1472982.38	1542374.26	5345.75
FFOR-EXC-28	1472971.68	1542380.74	5345.62
FFOR-EXC-29	1472983.33	1542382.13	5345.68
FFOR-EXC-30	1473038.46	1541792.26	5341.77
FFOR-EXC-31	1473031.34	1541783.05	5342.05
FFOR-EXC-32	1473037.00	1541772.01	5342.03
FFOR-EXC-33	1473044.12	1541782.21	5342.37
FFOR-EXC-34	1473038.15	1541783.00	5341.92
FFOR-EXC-35	1473510.00	1541421.29	5343.14
FFOR-EXC-36	1473503.15	1541427.72	5343.20
FFOR-EXC-37	1473502.88	1541414.06	5343.00
FFOR-EXC-38	1473503.09	1541421.15	5343.09
FFOR-EXC-39	1473504.98	1541383.23	5343.32
FFOR-EXC-40	1473515.20	1541347.90	5343.10
FFOR-EXC-41	1473501.16	1541354.02	5343.30
FFOR-EXC-42	1473526.99	1541355.19	5343.23
FFOR-EXC-43	1473514.46	1541355.16	5343.28
FFOR-EXC-44	1473515.80	1541238.77	5343.29
FFOR-EXC-45	1473523.06	1541220.09	5343.34
FFOR-EXC-46	1473510.19	1541233.65	5343.37
FFOR-EXC-47	1473516.93	1541218.71	5343.16
FFOR-EXC-48	1473526.19	1541389.99	5342.95
FFOR-EXC-49	1473514.49	1541380.04	5343.27
FFOR-EXC-50	1473524.18	1541375.09	5343.25
FFOR-EXC-51	1473511.78	1541208.52	5343.22
FFOR-EXC-52	1473526.38	1541244.46	5343.37
FFOR-EXC-53	1473522.35	1541250.81	5343.14
FFOR-EXC-54	1473520.33	1541246.14	5343.18
FFOR-EXC-55	1473523.42	1541246.31	5343.26
FFOR-EXC-56	1473523.48	1541280.76	5343.31
FFOR-EXC-57	1473515.92	1541274.25	5343.26
FFOR-EXC-58	1473479.63	1541426.88	5343.09
FFOR-EXC-59	1473475.38	1541423.06	5343.07
FFOR-EXC-60	1473479.71	1541420.52	5342.78
FFOR-EXC-61	1473480.56	1541423.19	5342.93
FFOR-EXC-62	1473515.58	1541366.03	5343.37
FFOR-EXC-63	1473518.55	1541407.73	5343.19
FFOR-EXC-64	1473514.78	1541410.19	5343.22
FFOR-EXC-65	1473511.70	1541406.84	5343.22
FFOR-EXC-66	1473514.67	1541400.64	5343.18
FFOR-EXC-67	1473523.92	1541260.00	5343.28
FFOR-EXC-68	1473517.95	1541259.88	5343.36
FFOR-EXC-69	1473517.99	1541333.29	5342.99
FFOR-EXC-70	1473513.99	1541339.10	5342.69
FFOR-EXC-71	1473510.95	1541333.25	5342.91
FFOR-EXC-72	1473514.63	1541329.29	5342.79
FFOR-EXC-73	1473514.45	1541334.17	5342.87
FFOR-EXCSO-01	1473518.29	1541177.20	5343.53
FFOR-EXCSO-02	1473509.02	1541252.64	5343.22
FFOR-EXCSO-03	1473513.66	1541314.19	5342.61
FFOR-EXCSO-04	1473517.63	1541171.45	5343.39
FFOR-EXCSO-05	1473037.27	1541802.85	5341.92
FFOR-EXCSO-06	1473515.18	1541243.96	5343.21
FFOR-EXCSO-07	1473508.69	1541262.21	5343.32
FFOR-EXCSO-08	1473509.76	1541212.44	5343.02
FFOR-EXCSO-09	1473517.36	1541246.28	5343.21
FFOR-EXCSO-10	1473511.98	1541273.92	5343.21
FFOR-EXCSO-11	1473480.93	1541423.85	5342.97
FFOR-EXCSO-12	1473514.70	1541325.24	5342.85
FFOR-EXCSO-13	1473515.00	1541321.11	5343.07

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UNCLASSIFIED SURVEY - SAMPLE POINT LOCATIONS

BULK FUELS FACILITY - KAFB

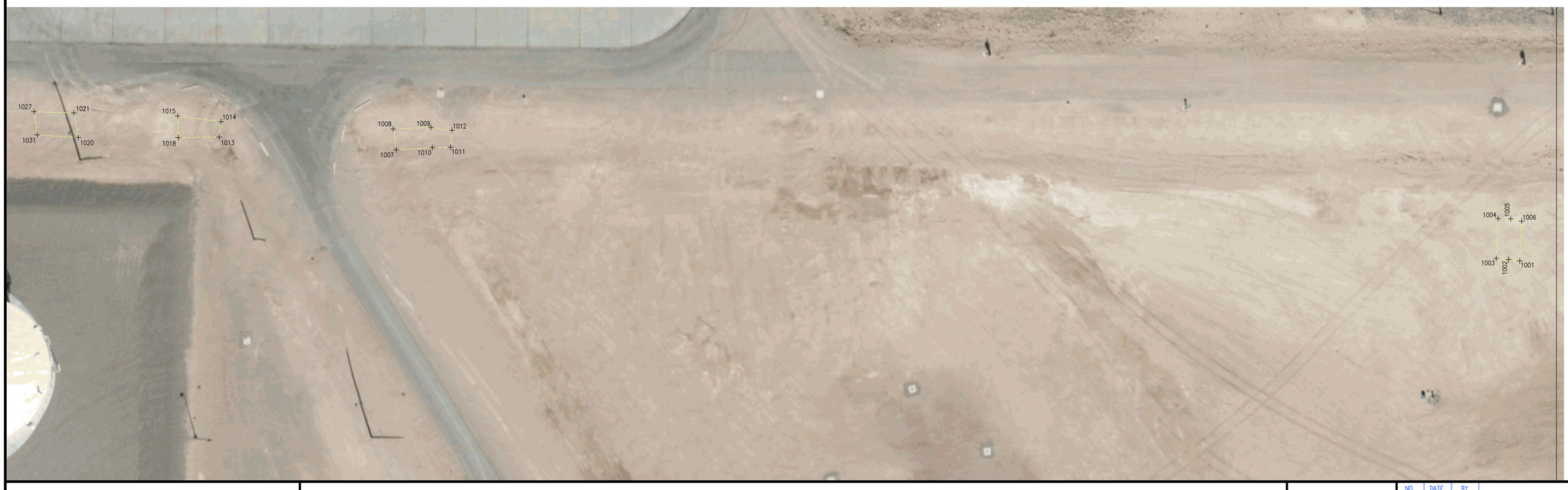
SURVEYED BY J.M.S.
DRAWN BY T.N.T.
APPROVED BY J.M.S.

NO.	DATE	BY	REVISIONS

JOB NO. 2013.044.1
DATE 10-2014
SHEET 1 OF 2

LEGEND

C60⊕	SAMPLE POINT DESIGNATION FFOR-EXC-60 (TYPICAL)
S04⊕	SAMPLE POINT DESIGNATION FFOR-EXCSO-04 (TYPICAL)
-----	EXCAVATION LIMITS
1105+	EXCAVATION POINT



COORDINATE TABLE

EXCAVATION POINT	NORTHING	EASTING	ELEVATION
1001	1472970.69	1542387.37	5345.70
1002	1472971.47	1542381.28	5345.67
1003	1472972.08	1542374.54	5345.61
1004	1472993.82	1542375.62	5346.35
1005	1472993.72	1542382.46	5346.11
1006	1472992.45	1542388.46	5346.13
1007	1473031.43	1541772.76	5342.11
1008	1473042.80	1541771.15	5343.04
1009	1473043.69	1541791.75	5342.16
1010	1473032.64	1541792.55	5341.97
1011	1473032.83	1541802.50	5342.06
1012	1473042.08	1541803.28	5341.97
1013	1473038.40	1541675.91	5341.80
1014	1473046.83	1541676.89	5342.74
1015	1473049.96	1541653.23	5342.93
1018	1473038.08	1541653.53	5342.08
1020	1473038.19	1541598.84	5341.95
1021	1473051.64	1541596.46	5342.77
1027	1473052.29	1541574.61	5342.56
1031	1473039.64	1541576.43	5342.02
1032	1473474.67	1541425.93	5343.12
1033	1473474.52	1541420.51	5342.93
1034	1473481.77	1541419.29	5342.86
1036	1473484.26	1541408.81	5343.14
1041	1473483.74	1541428.43	5343.02
1042	1473496.86	1541432.08	5343.28
1043	1473510.31	1541432.64	5343.52
1045	1473510.86	1541411.41	5343.35
1046	1473512.64	1541411.13	5343.39
1047	1473516.91	1541411.05	5343.22
1048	1473521.20	1541404.52	5343.27
1049	1473510.68	1541403.24	5343.24
1050	1473510.78	1541411.41	5343.40
1051	1473512.41	1541411.01	5343.51
1052	1473497.40	1541404.69	5343.15
1053	1473501.26	1541396.02	5343.34
1055	1473506.04	1541365.60	5343.32
1056	1473495.10	1541360.49	5343.41
1057	1473496.54	1541346.34	5343.42
1058	1473510.61	1541345.49	5343.13
1059	1473510.26	1541338.52	5342.74
1060	1473511.46	1541324.62	5343.08
1062	1473513.98	1541309.28	5342.86
1063	1473524.42	1541309.77	5343.32
1064	1473523.71	1541322.03	5343.28
1070	1473517.68	1541326.16	5343.07
1072	1473519.02	1541339.14	5342.91
1073	1473517.05	1541340.06	5342.80
1086	1473527.89	1541346.95	5343.23
1087	1473529.83	1541358.50	5343.25
1088	1473527.37	1541363.81	5343.44
1089	1473527.43	1541369.78	5343.40
1090	1473528.56	1541399.78	5343.03
1091	1473517.46	1541292.11	5343.28
1092	1473511.77	1541290.24	5343.09
1093	1473511.34	1541278.56	5342.98
1094	1473508.01	1541274.21	5343.12
1097	1473508.52	1541254.53	5343.36
1100	1473506.76	1541237.20	5343.25
1102	1473507.99	1541220.71	5343.05
1103	1473507.49	1541198.62	5343.24
1104	1473508.31	1541182.05	5343.32
1105	1473510.87	1541170.89	5343.26
1106	1473524.57	1541170.04	5343.41
1107	1473528.80	1541182.04	5343.55
1108	1473529.32	1541198.76	5343.29
1109	1473529.39	1541209.48	5343.37
1110	1473528.34	1541221.24	5343.18
1111	1473524.12	1541224.94	5343.25
1112	1473523.75	1541229.02	5343.40
1113	1473526.76	1541240.55	5343.22
1114	1473526.80	1541253.05	5342.98
1115	1473524.78	1541254.39	5343.01
1116	1473525.86	1541269.70	5343.29
1117	1473527.50	1541270.69	5343.24
1118	1473527.46	1541208.72	5343.21
1119	1473521.42	1541283.19	5343.22

File Path:P:\DATA\2013.044.1\SUR\ | Plot Date: 10-24-2014
File Name:130441EXCAVATION2.DWG | Plot Time: 3:21 pm

UNCLASSIFIED SURVEY - EXCAVATION LIMIT LOCATIONS
BULK FUELS FACILITY - KAFB

SURVEYED BY J.M.S.
DRAWN BY T.N.T.
APPROVED BY J.M.S.

NO.	DATE	BY	REVISIONS

JOB NO. 2013.044.1
DATE 10-2014
SHEET 2 OF 2

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APPENDIX G

Data Validation Summary Report

APPENDIX G

Data Validation Summary Report – FFOR Soil Confirmation
June 2014 – September 2014

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ACRONYMS AND ABBREVIATIONS

%D	percent difference
CCV	continuing calibration verification
DL	detection limit
DoD	U.S. Department of Defense
EPA	U.S. Environmental Protection Agency
FFOR	Former Fuel Off-Loading Rack
ICV	initial calibration verification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantitation
mg/kg	milligram per kilogram
MS	matrix spike
MSD	matrix spike duplicate
OSRTI	Office of Superfund Remediation and Technology Innovation
OSWER	Office of Solid Waste and Emergency Response
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyls
QAPjP	BFF Spill site-specific Quality Assurance/Quality Control Plan
QC	quality control
QSM	Quality Systems Manual
RCRA	Resource Conservation and Recovery Act
RPD	relative percent difference
RRF	relative response factor
SDG	sample delivery group
SIM	selected ion monitoring
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
USACE	U.S. Army Corps of Engineers
VOC	volatile organic compound

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G. DATA VALIDATION SUMMARY REPORT – FFOR SOIL CONFIRMATION JUNE 2014 – SEPTEMBER 2014

1. LABORATORY DATA QUALITY SUMMARY

This Data Validation Summary Report describes the findings of the review of data from the 2014 soil confirmation sampling event at the Former Fuel Off-Loading Rack (FFOR) and is provided to document the quality of the analytical data used in the *Former Fuel Off-Loading Rack Excavation Report, Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico*. Sampling procedures and overall quality control (QC) and quality assurance protocols for the 2014 FFOR soil confirmation sampling event are presented in the draft *Quality Assurance Project Plan, Bulk Fuels Facility (BFF) Spill, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base, Albuquerque, New Mexico* (QAPjP; U.S. Army Corps of Engineers [USACE], 2011).

During the period of June 30 through September 16, 2014, 73 soil samples and 7 field duplicates were collected and sent to Hall Environmental Analysis Laboratory, Inc. (Hall), Albuquerque, New Mexico, for analyses. Hall is a New Mexico State-certified laboratory.

FFOR soil confirmation samples were analyzed for the following list of parameters:

- Volatile organic compounds (VOC) – U.S. Environmental Protection Agency (EPA) Method SW8260B
- Semivolatile organic compounds (SVOC) – EPA Method SW8270C
- Total petroleum hydrocarbons as gasoline (TPH as gasoline) – EPA Method SW8015D
- TPH as diesel and motor oil – EPA Method SW8015D
- Lead – EPA Method SW6010B

Based on a review of the 2014 FFOR soil confirmation data, concentrations of polynuclear aromatic hydrocarbons (PAH) at a few locations exceeded the 2012 New Mexico State residential soil screening levels. As a result of the regulatory exceedances, 13 step-out samples and 1 duplicate were collected during the same sampling event and submitted to Hall. The step-out samples were analyzed for PAH only by a more sensitive method, EPA Method SW8270C selective ion monitoring (SIM), in order to verify compliance with the State soil screening level requirements.

Prior to the 2014 FFOR soil confirmation sampling event, one backfill soil sample was collected and submitted to Hall for the following analyses:

- VOC – EPA Method SW8260B
- SVOC – EPA Method SW8270C
- PAH – EPA Method SW8270C SIM
- Pesticides – EPA Method SW8081
- PCB – EPA Method SW8082
- Herbicides – EPA Method SW8151
- TPH as gasoline – EPA Method SW8015D
- TPH as diesel and motor oil – EPA Method SW8015D
- Resource Conservation and Recovery Act (RCRA) Metals – EPA Method SW6010B/SW747A
- Hexavalent chromium – EPA Method SW7196A

Herbicides and hexavalent chromium were analyzed by Hall's subcontractor, Anatek Labs, Inc., located in Spokane, Washington, and ESC Lab Sciences, located in Nashville, Tennessee. Both laboratories hold a National Environmental Laboratory Accreditation Program certification.

All soil analytical results obtained from the 2014 FFOR soil sampling event were submitted in 26 sample deliverable groups (SDG). Appendix G – Table 1 summarizes sample locations, sample collection dates, sample numbers, sample depths, SDG numbers, extraction and analysis dates, and extraction and analysis methods. An EPA Level III data review was performed on analytical results for the SDG. The review was performed in accordance with the guidelines and control criteria specified in the following documents:

- The QAPjP (USACE, 2011)
- *Quality Systems Manual for Environmental Laboratories, Version 4.2* (U.S. Department of Defense [DoD], 2010)
- *USEPA Contract Laboratory Program, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,* SW-846 (EPA, 2006 and 2008 update)
- *Environmental Quality – Guidance for Evaluating Performance-Based Chemical Data*, 200-1-10, (USACE, 2005)
- *USEPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review, Final* (EPA, 2008)
- *USEPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review, Final* (EPA, 2010)

The following QC elements were included in the EPA Level III data review:

- Sample preservation and sample extraction and analysis holding times
- Laboratory method blanks
- Surrogate recoveries (organic analyses)
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries
- Relative percent differences (RPDs)
- Initial calibration and verifications
- Continuing calibration verifications
- Field blanks
- Field duplicates

Analytical data were reviewed in terms of precision, bias, representativeness, comparability, and completeness as follows:

- *Bias* is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD, and MS/MSD, respectively. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. The recovery of target analytes from fortified samples is compared to the acceptance criteria defined in the QAPjP and DoD Quality Systems Manual (QSM) (DoD, 2010). When the acceptance criteria are not available in the DoD QSM, results are compared to the laboratory in-house control limits. When these criteria are not met, the data are flagged accordingly.
- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates, LCSDs, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are flagged accordingly.

- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods.
- *Completeness* is expressed as a ratio of the number of usable data to total of analytical data results.

The following presents EPA Level III data review findings. The discussion summarizes data quality outliers and their potential impact on the data quality and usability of analytical results. Appendix G -Table 2 presents qualifier definitions and reason codes. Appendix G - Table 3 summarizes qualified data. For information purposes, qualified field QC data is also presented on the same table.

1.1 Data Quality Outliers

1.1.1 Sample Preservation, Sample Extraction, and Analysis Holding Times (Reason Code H)

Soil samples for the VOC and TPH as gasoline analyses were collected, stored, and shipped in TerraCore® samplers, and were chemically preserved in accordance with EPA Method SW5035 preservation requirements. Soil samples were kept on ice after sample collection and immediately transported to the local laboratory, Hall, for analyses. Since the samples were shipped immediately after sample collection, there was insufficient time for the samples to be cooled to less than 6 degree Celsius. While the majority of the cooler temperatures exceeded 6 degree Celsius, the cooling effect had started as documented on the laboratory sample receipt forms. Chemical preservation of the VOC and TPH as gasoline samples in TerraCore® samplers minimized VOC losses. Upon receipt at the laboratory, samples were immediately transferred to a refrigerator until extraction and analysis.

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction dates and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of the sample results. Each soil sample for the VOC and TPH as gasoline analyses was collected in two TerraCore® vials: one vial containing sodium bisulfate for low-level analysis, and

one vial containing methanol for high-level determination. When soil samples for VOC and TPH as gasoline analyses are chemically preserved, the analysis holding time is extended from 48 hours to 14 days from the sample-collection date. All soil samples for the VOC and TPH gasoline analyses were analyzed within the 14-day analysis holding-time requirement. Soil samples for SVOC, PAH, TPH as diesel and motor oil, pesticides, herbicides, and metals analyses were extracted and analyzed within their respective extraction and analysis holding-time requirements.

1.1.2 Laboratory Method Blanks (Reason Code B1)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and for each analytical method. Positive detections of VOC and SVOC were reported in several batches. Specific contaminants, their detected levels, and limits of quantitation (LOQ) are summarized below:

Analytical Method	Laboratory QC Batch #	Contaminant	Contaminant Level (mg/kg)	LOQ (mg/kg)
SW8260B	R15165	Bromomethane	0.00118	0.005
	R21061	Methylene chloride	0.0066	0.005
	15137	Bromomethane	0.00118	0.005
	R21010	Methylene chloride	0.0064	0.005
	15112	Bromomethane	0.00151	0.005
	R20965	Methylene chloride	0.017	0.005
	14860	Bromomethane	0.00224	0.005
	14065	Bromomethane	0.00109	0.005
	14027	Bromomethane	0.00112	0.005
	20480	Methylene chloride	0.014	0.005
	20359	Acetone	0.083	0.01
		Methylene chloride	0.015	0.005
	14008	Bromomethane	0.00205	0.005
SW8270C	15158	di-n-butyl phthalate	0.095	0.5
	14071	3&4-methylphenol	0.079	0.2
	14033	Phenanthrene	0.038	0.2

mg/kg milligram per kilogram

Based on the DoD QSM requirements (2010), laboratory method blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants, such as acetone and methylene chloride.

As indicated in the preceding table, the laboratory method blank levels for the analytes bromomethane, di-n-butyl phthalate, 3&4-methylphenol, and phenanthrene were below one-half the LOQ, and therefore, were considered acceptable, while the blank level for acetone and methylene chloride exceeded the control criteria.

As a result of the low-level laboratory method blank detections, the detected results of the listed VOCs and SVOCs in the affected samples were qualified as non-detected (U) at the LOQ or reported value when the concentrations of the bromomethane, di-n-butyl phthalate, 3&4-methylphenol, and phenanthrene in samples were less than or equal to 5 times the level observed in the corresponding blank level. The detected results of acetone and methylene chloride in the affected samples were also qualified as non-detected (U) at the LOQ when the concentrations of acetone and methylene chloride in samples were less than 10 times the blank level. This blank qualification has no impact on the data usability.

In addition, other VOCs, SVOCs, and lead were detected at trace levels in one or more blanks. As these analytes were not detected in samples processed with the laboratory method blanks, the results were not affected by the blank detections, and no data qualification is warranted. Except where noted, all other laboratory method blanks were free of VOCs, SVOCs, TPH as gasoline, TPH as diesel and motor oil, PAHs, PCBs, pesticides, herbicides, and metals.

1.1.3 Surrogate Recoveries (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate matrix effect and method performance on an individual sample basis. Biased surrogate recoveries were reported for several samples analyzed for PAHs, VOCs, and TPH as gasoline. The affected sample numbers, non-compliant surrogate recoveries, and acceptance criteria are summarized below:

Analytical Method	Sample Number	Surrogate Recovery Outlier (%)	Control Limit (%)
SW8270CSIM	FFOR-CF-0078	Benzo(e)pyrene: 168%	34-131%
	FFOR-CF-0090	Hexadecane: 107%	27-106%
SW8260B	FFOR-CF-0041	4-Bromoforobenzene:165%	85-120%
	FFOR-CF-0050	4-Bromoforobenzene: 210%	85-120%
	FFOR-CF-0051	4-Bromoforobenzene: 138%	85-120%
	FFOR-CF-0053	4-Bromoforobenzene: 193%	85-120%
	FFOR-CF-0059	4-Bromoforobenzene: 215%	85-120%
	FFOR-CF-0062	4-Bromoforobenzene: 277%	85-120%
	FFOR-CF-0071	4-Bromoforobenzene: 179%	85-120%
	FFOR-CF-0074	4-Bromoforobenzene: 150%	85-120%
SW8015D	FFOR-CF-0049	4-Bromoforobenzene: 146%	70-130%
	FFOR-CF-0050	4-Bromoforobenzene: 169%	70-130%
	FFOR-CF-0053	4-Bromoforobenzene: 149%	70-130%
	FFOR-CF-0062	4-Bromoforobenzene: 346%	70-130%
	FFOR-CF-0071	4-Bromoforobenzene: 168%	70-130%

In the above PAH and VOC samples, only the listed surrogate was recovered outside the accuracy specifications; while the recoveries of the remaining surrogates in the same samples were within the control criteria. As documented in the laboratory case narratives, the surrogate recovery outliers could be attributed to a matrix interference. Concentrations of target analytes in some samples were also elevated, which resulted in an interference with the accuracy of the analysis. As a result of the high-biased surrogate recoveries, the detected results of PAHs, VOCs, and TPH as gasoline in the listed samples were qualified as estimated (J+), while the non-detected results in the same samples were not affected by the elevated surrogate recoveries.

No surrogates were recovered in 10 SVOC samples (FFOR-CF-0002, FFOR-CF-0005, FFOR-CF-0006, FFOR-CF-0007, FFOR-CF-0041, FFOR-CF-0063, FFOR-CF-0064, FFOR-CF-0065, FFOR-CF-0068 and FFOR-CF-0069) and 2 TPH as diesel samples (FFOR-CF-0041 and FFOR-CF-0071). Since SVOC and TPH as diesel were still detected in the affected samples, the data usability is considered usable. Data qualification was applied to the detected results and the LOQs for non-detected results in the entire samples as estimated (J-) and (UJ), respectively. As documented in the case narratives, matrix effect was observed in the listed samples and led to the poor surrogate recoveries.

Compliant surrogate recovery results were reported in laboratory method blanks and LCS samples for PAH, VOC, TPH as gasoline, TPH as diesel and motor oil, and SVOC analyses, which demonstrated acceptable laboratory method performance for these analyses in the absence of matrix interference.

Except where noted, surrogate recoveries in other samples analyzed for VOC, SVOC, PAH, pesticides, herbicides, PCB met the acceptance criteria.

1.1.4 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precisions (Reason Codes L and D3)

The LCS is an aliquot of analyte-free matrix spiked with target analytes and is prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. The review indicated acceptable LCS recoveries and precisions for all laboratory QC batches for all methods.

1.1.5 Matrix Spike/Matrix Spike Duplicate Recoveries and Precisions (Reason Codes M and D2)

The MS and MSD samples are a portion of a field sample spiked with target analytes and are prepared with each analytical batch. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference, and to measure bias and precision for each analytical batch. In accordance with the site-specific BFF Spill QAPjP requirements (USACE, 2011), the MS/MSD samples are to be collected at a rate of 1 per 20 soil samples. During the 2014 FFOR soil sampling event, four MS/MSD samples were collected from locations FFOR-EXC-15, FFOR-EXC-48, FFOR-EXC-55, and FFOR-EXC-64, thus achieving the 5 percent MS/MSD sample frequency requirements. The laboratory also spiked FFOR-specific soil samples and step-out samples to evaluate possible matrix interference on the accuracy of the analysis. The following table identifies the site-specific MS/MSD samples collected during the 2014 FFOR soil sampling event:

Sample Location	Sample Number	MS/MSD Analysis
Backfill soil	FFOR-BF0001	VOC, SVOC, PAH, pesticides, PCB, TPH as diesel and motor oil, and metals
FFOR-EXC-01	FFOR-CF-0001	VOC, SVOC, and lead
FFOR-EXC-09	FFOR-CF-0009	VOC and SVOC
FFOR-EXC-15	FFOR-CF-0016	VOC, SVOC, lead, TPH
FFOR-EXC-21	FFOR-CF-0023	TPH
FFOR-EXC-22	FFOR-CF-0024	TPH
FFOR-EXC-23	FFOR-CF-0025	TPH
FFOR-EXC-24	FFOR-CF-0026	TPH
FFOR-EXC-25	FFOR-CF-0027	VOC
FFOR-EXC-26	FFOR-CF-0028	VOC, SVOC, and lead
FFOR-EXC-30	FFOR-CF-0032	VOC, SVOC, and TPH
FFOR-EXC-35	FFOR-CF-0038	SVOC, TPH, and lead
FFOR-EXC-38	FFOR-CF0041	Lead
FFPR-EXC-39	FFOR-CF-0042	VOC, TPH, and lead
FFPR-EXC-40	FFOR-CF-0043	VOC, TPH, and lead
FFOR-EXC-44	FFOR-CF-0048	VOC, SVOC, and TPH
FFOR-EXC-47	FFOR-CF-0051	VOC and TPH
FFOR-EXC-48	FFOR-CF-0052	VOC, SVOC, TPH, and lead
FFOR-EXC-50	FFOR-CF-0054	VOC, SVOC, and lead
FFOR-EXC-55	FFOR-CF-0060	VOC, SVOC, TPH, and lead
FFOR-EXC-56	FFOR-CF-0061	TPH and SVOC
FFOR-EXC-64	FFOR-CF-0070	VOC, SVOC, TPH, and lead
FFOR-EXC-67	FFOR-CF-0073	VOC and TPH
FFOR-EXCSO-01	FFOR-CF-0078	PAH
FFOR-EXCSO-04	FFOR-CF-0081	PAH
FFOR-EXCSO-05	FFOR-CF-0082	PAH
FFOR-EXCSO-06	FFOR-CF-0083	PAH
FFOR-EXCSO-08	FFOR-CF-0086	PAH
FFOR-EXCSO-11	FFOR-CF-0089	PAH
FFOR-EXCSO-13	FFOR-CF-0091	PAH

The majority of the MS results was within the accuracy and precision control criteria. Non-compliant MS results were reported for TPH as diesel, VOC, SVOC, PAH, and lead. Specific MS outliers and acceptance criteria that led to data qualification are presented below.

EPA Method	MS Sample Number	MS accuracy/RPD Outlier (%)	Control Limit (%)
SW8015D	FFOR-CF-0038	TPH as diesel: 376/158%; RPD: 42.1%	40-152%, RPD: 30%
	FFOR-CF-0042	TPH as diesel: 48.8/24.9%	40-153%
SW8260B	FFOR-CF0043	Benzene: 56.2/52.7%	75-125%
		Toluene: 30.3/28.5%	70-125%
	FFOR-CF0070	Chlorobenzene: 72.7/67.8%	75-125%
SW8270C	FFOR-CF0048	n-nitroso-di-n-propylamine: 0%	40-115%
	FFOR-CF0060	n-nitroso-di-n-propylamine: 0%	40-115%

EPA Method	MS Sample Number	MS accuracy/RPD Outlier (%)	Control Limit (%)
SW8270C SIM	FFOR-CF-0078	Anthracene: 85.2/193%; RPD: 627%	43.8-120%, RPD: 30%
		Acenaphthylene: 80/177%	40-116%
		Chrysene: 115/965%; RPD:115%	45-127%; RPD: 30%
		Benzo(a)pyrene: 142/766%; RPD: 87%	54-117%; RPD: 30%
		Bezo(a)anthracene: 111/803%; RPD: 109%	50-125%; RPD: 30%
		Benzo(b)fluoranthene: 107/845%; RPD: 85%	49-131%; RPD: 30%
		Benzo(k)fluoranthene: 98/336%; RPD: 66%	50-127%; RPD: 30%
		Benzo(g,h,i)perylene:113/558%; RPD: 82%	49-123%; RPD: 30%
		Dibenz(a,h)anthracene: 83/141%; RPD: 38%	52-130%; RPD: 30%
		Fluoranthene: 114/1020%; RPD: 124%	54-125%; RPD: 30%
		Indeno(1,2,3-cd)pyrene: 101/450%; RPD: 76%	50-124%; RPD: 30%
		Phenanthrene: 75/158%; RPD: 66%	48-120%; RPD: 30%
		Pyrene: 125/1360%; RPD:140%	55-120%; RPD: 30%
SW6010B	FFOR-CF-0043	Lead: 67.8/59.9%	80-120%
	FFOR-CF-0060	Lead: 69/68%	80-120%

Due to the low-biased MS recoveries for VOC, SVOC, and lead noted above, the detected results and the LOQ for non-detected results were qualified as estimated J- and UJ, respectively. This data qualification was applied to the results of the listed analytes in the spiked samples only (FFOR-CF-0043, FFOR-CF-0048, FFOR-CF-0060, and FFOR-CF-0070). The high-biased MS recoveries or MSD RPDs also led to qualification of the detected result of TPH as diesel as estimated (J+) in the spiked sample (FFOR-CF-0038); and the detected results of PAH as estimated (J+) in the spiked sample (FFOR-CF-0078). With the exception of the SVOC analysis, the reported MS recoveries or RPDs did not significantly deviate from the acceptance criteria, and thus, the data usability is not affected. No recoveries were reported for the analyte, n-nitro-di-n-propylamine, in the MS samples (FFOR-CF-0048 and FFOR-CF-0060). Since surrogates in the samples were recovered within the criteria and the associated LCS results were acceptable, the data usability of the analyte is considered usable, and the LOQ was qualified as estimated (UJ).

As shown in the preceding table, the reported MS and MS recoveries for TPH as diesel in the spiked sample (FFOR-CF-0042) were outside the accuracy specifications. These non-compliant MS results could be attributed to a matrix effect. In the spiked sample, the parent concentration of TPH as diesel far

exceeded four times the spiked level. The elevated TPH as diesel concentration produced matrix interference, which affected the accuracy of the MS analysis. Because the sample concentration is greater than four times the spiked level, no data qualification was applied to the result of the TPH as diesel in the MS sample (FFOR-CF-0042).

In addition to the above, high-biased MS recoveries and RPDs for a few SVOCs in another spiked sample were reported. Since the affected analytes were not detected, the non-compliant MS results did not affect the data quality of the sample results, and thus, no data qualification was necessary.

Except as noted above, the MS and MSD recoveries and the PRDs between the MS and MSD recoveries met the established accuracy and precision control criteria for all other spiked samples.

1.1.6 Initial Calibration (Reason Codes G1, G2, and C)

Instrument calibration is performed for VOC, SVOC, PAH, pesticides, herbicides, PCB, and metals analyses according to the EPA method requirements. The linear analytical range is established for each method by analysis of standards prepared at increasing concentrations that cover the expected sample concentrations. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or linear coefficient. The initial calibration results were acceptable for all the listed analyses.

Immediately after the initial calibration for each method, an initial calibration verification (ICV) was conducted at the mid-point of instrument calibration range by using a second-source calibration standard to verify the accuracy of the initial calibration. A percent difference (D%) between relative response factor (RRF) in the initial calibration and RRF in the second-source calibration was noted greater than the control limit. The affected analysis, ICV outlier, and control criteria are summarized below:

EPA Method	Calibrate Date	CCV Outlier (%)	Control Limit (%)
SW8260B	8/1/2104	Acetone: +46%%	<20%

Due to the ICV outlier, the detected results of acetone in all samples associated with the initial calibration were qualified as estimated (J+). The high-biased D% has no impact on the data quality of the non-detected results. Except where noted above, the ICV results were acceptable for all other analyses.

1.1.7 Continuing Calibration Verification (Reason Codes C and G3)

Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the linear range. Percent differences (D%) between RRF in the initial calibration and RRF in the continuing calibration exceeded the acceptance criteria. The non-compliant continuing calibration effects that resulted in data qualification are summarized below:

EPA Method	Calibrate Date	CCV Outlier (%)	Control Limit (%)
SW8260B	7/2/2104	Methyl tert Butyl Ether: -27.5%	<20%
	7/7/2104	Acetone: -22.4%	<20%
		2-butanone: -24.2%	<20%
	7/18/2104	Bromomethane: -56.8%	<20%
	7/25/2014	Bromomethane: -55.7%	<20%
		Methyl-tert butyl-ether: -37.2%	<20%
		Vinyl acetate: -42.6%	<20%
		2-butanone: -24.4%	<20%
	8/2/2104	Bromomethane: -30.4%	<20%
		Vinyl acetate: -21.1%	<20%
	8/20/2014	Acetone: -21%	<20%
		Naphthalene: -21.3%	<20%
	8/22/2014	Bromomethane: -39.4%	<20%
	8/30/2104	Chloromethane: -30%	<20%
		Vinyl acetate: -38.8%	<20%
		Sec-butylbenzene: -23.3%	<20%
		Hexachlorobutadiene: -21.5%	<20%
	9/3/2104	Vinyl acetate: -28.5%	<20%
	9/4/2104	Chloromethane: -27.6%	<20%
	9/5/2104	Chloromethane: -30.5%	<20%
		Acetone: -30.1%	<20%
	9/8/2104	Sec-butylbenzene: -22.5%	<20%
		Bromomethane: -31.6%	<20%
		Acetone: -35.3%	<20%
		n-butylbenzene: -22.5%	<20%

EPA Method	Calibrate Date	CCV Outlier (%)	Control Limit (%)
SW8270C	7/3/2014	Bis(2-ethylhexyl)phthalate: -23%	<20%
	8/21/2014	Bis(2-ethylhexyl)phthalate: -20.8%	<20%
	8/22/2014	Bis(2-ethylhexyl)phthalate: -30.2%	<20%
	8/29/2014	Hexachlorocyclyopentadiene: -23.3%	<20%
	9/4/2014	Bis(2-ethylhexyl)phthalate: -26%	<20%
		Hexachlorocyclyopentadiene: -28.5%	<20%
SW8105D	7/18/2104	TPH as diesel: -23%	<20%

As presented above, the majority of the CCV outliers did not significantly deviate from the control criteria. As a result of the low-biased D% values, the detected results and the LOQ for non-detected results were qualified as estimated J- and UJ, respectively. This data qualification was applied to the results of the listed VOCs, SVOCs, and TPH as diesel in all samples associated with the CCV outliers.

Low CCV results were observed for bromomethane from July 18, 2014 and July 25, 2014 calibration dates. The analyte was not detected, and consequently, the LOQ was qualified as estimated (UJ). While significant low-biased CCV results were reported for the analyte, it is unlikely that false negative results were reported from the laboratory. The analyte bromomethane has not been identified as a chemical of concern for the site, and therefore, the low-biased CCV results have minimal impact on the data quality objectives.

In addition to above, high-biased D% values were reported for other VOCs and SVOCs. Since these analytes were not detected in the affected samples, the high-biased CCV outliers did not affect the data quality of the sample results, and no data qualification was warranted.

Except where discussed above, acceptable CCV results were reported for all other target analytes.

1.1.8 Trip Blanks (Reason Code K3)

In accordance with the site-specific QAPjP requirements (USACE, 2011), trip blanks are required for each cooler containing groundwater samples analyzed for VOCs. Since no groundwater samples were collected during the 2014 FFOR soil sampling event, no trip blanks were necessary.

1.1.9 Equipment Rinse Blanks (Reason Code K1)

Equipment rinse blanks are designed to check for contamination from sampling equipment, and the results of the equipment rinse blanks are used for evaluating the efficiency of equipment decontamination procedures.

Based on the site-specific QAPjP requirements (USACE, 2011), no equipment rinse blanks are required when samples are collected with either dedicated sampling equipment or disposable sampling equipment. During the 2014 FFOR soil sampling event, disposable sampling equipment was used to collect the soil samples. As no cross-contamination between samples could occur, no equipment rinse blanks were necessary in these cases.

1.1.10 Field Duplicates

In accordance with the site-specific QAPjP (USACE, 2011) requirements, field duplicate samples are to be collected at a minimum rate of 10 percent of the total number of soil samples. Field duplicate samples are evaluated by calculating the RPD between the sample and its corresponding duplicate sample. The RPD is calculated using the following equation:

$$RPD = |(S-D)/[(S+D)/2]| \times 100$$

Where:

S = sample result
D = duplicate result

Acceptable precision control criteria are established at less than or equal 50 percent for soil samples. The RPD is calculated between pairs of field duplicate samples when both results are reported above the LOQ.

During the 2014 FFOR soil sampling event, seven field duplicates were collected, thereby achieving the 10 percent field duplicate frequency requirement. Field duplicate samples are collected in immediate succession after the initial parent samples are collected by employing identical recovery techniques. The duplicate pairs were collected from the following locations and analyzed for VOCs, SVOCs, TPH as gasoline, TPH as diesel and motor oil, and lead: FFOR-EXC-10, FFOR-EXC-20, FFOR-EXC-30, FFOR-EXC-40, FFOR-EXC-50, FFOR-EXC-60, and FFOR-EXC-70. In addition, another duplicate pair was collected from step-out location, FFOR-EXCSO-07, and analyzed for PAH only. Appendix G – Table 4 presents the field duplicate results.

As shown on Appendix G - Table 4, the RPD for lead at location FFOR-EXC-70 was 55.2 percent, which slightly exceeds the precision control limit of 50 percent. The field duplicate results for lead, VOC, SVOC, and PAH are acceptable and are between 4.7 and 39.2 percent. The field duplicate results indicate overall acceptable sampling and analytical precision for the analyses.

1.2 Completeness

The following sections present a discussion of contractual, analytical, and technical completeness for the 2014 FFOR soil sampling event. Completeness calculations were performed only for the soil samples that were used for project decisions. Appendix G – Table 5 presents technical completeness results.

1.2.1 Contractual Completeness

Contractual completeness is a quantitative expression of how closely the laboratory adhered to the project requirements. The contractual completeness goal is 95 percent. Contractual completeness is calculated as follows:

$$\% \text{ Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \quad X\ 100$$

Contractual completeness is based on data qualified for QC outliers that are related to method performance and laboratory procedures only. These include data qualified for calibration or preparation blank contamination, missed holding times, and non-compliant LCS recovery and/or precision.

For the 2014 FFOR soil sampling event, the 95 percent contractual completeness was achieved for all methods for the backfill, confirmation, and step-out sampling activities.

1.2.2 Analytical Completeness

Analytical completeness is a quantitative expression of how closely the results adhered to all QC requirements based on the number of data points qualified for any reason. The analytical completeness goal is 90 percent. Analytical completeness is calculated as follows:

$$\% \text{ Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \quad X\ 100$$

Analytical completeness is based on sample results qualified for any reason, and includes all target analyte results with the exception of data qualified as estimated (J) due to the result being reported between the laboratory's LOQ and DL.

Largely due to the surrogate recovery outliers, the 90 percent analytical completeness goal was marginally missed for SVOC analysis (86.8 percent) for soil confirmation samples, and for PAH analysis (89.3 percent) for step-out samples. The affected sample results were qualified as estimated and considered usable. The 90 percent analytical completeness objective was achieved for all other methods.

1.2.3 Technical Completeness

Technical completeness is a quantitative expression of the data usability based on the number of rejected data. For this project, the technical completeness for each method is established at equal to or greater than 95 percent. The technical completeness calculation considers all data that is not rejected to be usable, and technical completeness is calculated as follows:

$$\% \text{ Technical Completeness} = \frac{\text{Number of Useable Results}}{\text{Total Number of Results}} \text{ X } 100$$

Despite the exceedances noted in the previous sections, the technical completeness was 100 percent for all methods exceeding the 95 percent technical completeness requirement. Therefore, the project data quality objectives were achieved for the 2014 FFOR soil sampling event.

1.3 Summary

The analytical data reported for this event have been reviewed for precision, bias, representativeness, comparability, and completeness. Data quality exceedances consisted of low-level laboratory method blank detections, non-compliant surrogate and MS/MSD recoveries and precisions, and ICV and CCV outliers. In all cases, the exceedances are considered small, and the data usability is not affected. The 95 percent technical completeness goal was exceeded for all methods. All data are available and usable for their intended purposes.

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Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Background Sample										
SDG 1406987										
6/20/2014	FFOR-BF-0001 *	FFOR-BACKFILL-01	NA	HALL	REG	6/21/2014	SW3050	6/23/2014	SW6010B	III
6/20/2014	FFOR-BF-0001 *	FFOR-BACKFILL-01	NA	HALL	REG	6/21/2014	SW3050	6/24/2014	SW6010B	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	ESC	REG	7/2/2014	METHOD	7/2/2014	SW7196A	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/23/2014	METHOD	6/24/2014	SW7471	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/20/2014	SW3540	6/24/2014	SW8015D - E	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/23/2014	SW5035	6/23/2014	SW8015D - P	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/22/2014	METHOD	6/24/2014	SW8081	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/22/2014	METHOD	6/23/2014	SW8082	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	ANATEK	REG	6/24/2014	METHOD	6/24/2014	SW8151	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/20/2014	SW5035	6/20/2014	SW8260B	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/22/2014	SW3540	6/23/2014	SW8270C	III
6/20/2014	FFOR-BF-0001	FFOR-BACKFILL-01	NA	HALL	REG	6/22/2014	SW3540	6/23/2014	SW8270C_SIM	III
Confirmation Samples										
SDG 1406D88										
6/30/2014	FFOR-CF-0001	FFOR-EXC-01	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0001	FFOR-EXC-01	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0001	FFOR-EXC-01	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0001	FFOR-EXC-01	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/1/2014	SW8260B	III
6/30/2014	FFOR-CF-0001	FFOR-EXC-01	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0002	FFOR-EXC-02	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0002	FFOR-EXC-02	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0002	FFOR-EXC-02	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0002	FFOR-EXC-02	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0002	FFOR-EXC-02	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0003	FFOR-EXC-03	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0003	FFOR-EXC-03	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0003	FFOR-EXC-03	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0003	FFOR-EXC-03	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0003	FFOR-EXC-03	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0004	FFOR-EXC-04	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0004	FFOR-EXC-04	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0004	FFOR-EXC-04	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0004	FFOR-EXC-04	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0004	FFOR-EXC-04	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0005	FFOR-EXC-05	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0005	FFOR-EXC-05	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1406D88										
6/30/2014	FFOR-CF-0005	FFOR-EXC-05	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0005	FFOR-EXC-05	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0005	FFOR-EXC-05	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0006	FFOR-EXC-06	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0006	FFOR-EXC-06	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0006	FFOR-EXC-06	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0006	FFOR-EXC-06	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0006	FFOR-EXC-06	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0007	FFOR-EXC-07	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0007	FFOR-EXC-07	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0007	FFOR-EXC-07	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0007	FFOR-EXC-07	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0007	FFOR-EXC-07	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
6/30/2014	FFOR-CF-0008	FFOR-EXC-08	2.5 - 2.6	HALL	REG	7/1/2014	SW3050	7/2/2014	SW6010B	III
6/30/2014	FFOR-CF-0008	FFOR-EXC-08	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/1/2014	SW8015D - E	III
6/30/2014	FFOR-CF-0008	FFOR-EXC-08	2.5 - 2.6	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8015D - P	III
6/30/2014	FFOR-CF-0008	FFOR-EXC-08	2.5 - 2.6	HALL	REG	7/1/2014	SW5035	7/2/2014	SW8260B	III
6/30/2014	FFOR-CF-0008	FFOR-EXC-08	2.5 - 2.6	HALL	REG	7/1/2014	SW3540	7/2/2014	SW8270C	III
SDG 1407066										
7/1/2014	FFOR-CF-0009	FFOR-EXC-09	10	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0009	FFOR-EXC-09	10	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0009	FFOR-EXC-09	10	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0009	FFOR-EXC-09	10	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0009	FFOR-EXC-09	10	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0010	FFOR-EXC-10	5	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0010	FFOR-EXC-10	5	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0010	FFOR-EXC-10	5	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0010	FFOR-EXC-10	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0010	FFOR-EXC-10	5	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0011	FFOR-EXC-10	5	HALL	FD	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0011	FFOR-EXC-10	5	HALL	FD	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0011	FFOR-EXC-10	5	HALL	FD	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0011	FFOR-EXC-10	5	HALL	FD	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0011	FFOR-EXC-10	5	HALL	FD	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0012	FFOR-EXC-11	5 - 5.1	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0012	FFOR-EXC-11	5 - 5.1	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1407066										
7/1/2014	FFOR-CF-0012	FFOR-EXC-11	5 - 5.1	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0012	FFOR-EXC-11	5 - 5.1	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0012	FFOR-EXC-11	5 - 5.1	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0013	FFOR-EXC-12	5	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0013	FFOR-EXC-12	5	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0013	FFOR-EXC-12	5	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0013	FFOR-EXC-12	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0013	FFOR-EXC-12	5	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0014	FFOR-EXC-13	5	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0014	FFOR-EXC-13	5	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0014	FFOR-EXC-13	5	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0014	FFOR-EXC-13	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0014	FFOR-EXC-13	5	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
7/1/2014	FFOR-CF-0015	FFOR-EXC-14	10	HALL	REG	7/2/2014	SW3050	7/3/2014	SW6010B	III
7/1/2014	FFOR-CF-0015	FFOR-EXC-14	10	HALL	REG	7/2/2014	SW3540	7/2/2014	SW8015D - E	III
7/1/2014	FFOR-CF-0015	FFOR-EXC-14	10	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8015D - P	III
7/1/2014	FFOR-CF-0015	FFOR-EXC-14	10	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/1/2014	FFOR-CF-0015	FFOR-EXC-14	10	HALL	REG	7/2/2014	SW3540	7/3/2014	SW8270C	III
SDG 1407139										
7/2/2014	FFOR-CF-0016	FFOR-EXC-15	5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0016	FFOR-EXC-15	5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0016	FFOR-EXC-15	5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0016	FFOR-EXC-15	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0016	FFOR-EXC-15	5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0017	FFOR-EXC-16	5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0017	FFOR-EXC-16	5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0017	FFOR-EXC-16	5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0017	FFOR-EXC-16	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0017	FFOR-EXC-16	5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0018	FFOR-EXC-17	5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0018	FFOR-EXC-17	5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0018	FFOR-EXC-17	5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0018	FFOR-EXC-17	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0018	FFOR-EXC-17	5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0019	FFOR-EXC-18	5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0019	FFOR-EXC-18	5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1407139										
7/2/2014	FFOR-CF-0019	FFOR-EXC-18	5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0019	FFOR-EXC-18	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0019	FFOR-EXC-18	5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0020	FFOR-EXC-19	10	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0020	FFOR-EXC-19	10	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0020	FFOR-EXC-19	10	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0020	FFOR-EXC-19	10	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0020	FFOR-EXC-19	10	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0021	FFOR-EXC-20	2.5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0021	FFOR-EXC-20	2.5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0021	FFOR-EXC-20	2.5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0021	FFOR-EXC-20	2.5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0021	FFOR-EXC-20	2.5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0022	FFOR-EXC-20	2.5	HALL	FD	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0022	FFOR-EXC-20	2.5	HALL	FD	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0022	FFOR-EXC-20	2.5	HALL	FD	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0022	FFOR-EXC-20	2.5	HALL	FD	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0022	FFOR-EXC-20	2.5	HALL	FD	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0023	FFOR-EXC-21	2.5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0023	FFOR-EXC-21	2.5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0023	FFOR-EXC-21	2.5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0023	FFOR-EXC-21	2.5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0023	FFOR-EXC-21	2.5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0024	FFOR-EXC-22	2.5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0024	FFOR-EXC-22	2.5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0024	FFOR-EXC-22	2.5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0024	FFOR-EXC-22	2.5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0024	FFOR-EXC-22	2.5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0025	FFOR-EXC-23	2.5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0025	FFOR-EXC-23	2.5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III
7/2/2014	FFOR-CF-0025	FFOR-EXC-23	2.5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0025	FFOR-EXC-23	2.5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0025	FFOR-EXC-23	2.5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
7/2/2014	FFOR-CF-0026	FFOR-EXC-24	5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/2/2014	FFOR-CF-0026	FFOR-EXC-24	5	HALL	REG	7/3/2014	SW3540	7/7/2014	SW8015D - E	III
7/2/2014	FFOR-CF-0026	FFOR-EXC-24	5	HALL	REG	7/9/2014	SW5035	7/9/2014	SW8015D - P	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1407139										
7/2/2014	FFOR-CF-0026	FFOR-EXC-24	5	HALL	REG	7/2/2014	SW5035	7/2/2014	SW8260B	III
7/2/2014	FFOR-CF-0026	FFOR-EXC-24	5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
SDG 1407188										
7/3/2014	FFOR-CF-0027	FFOR-EXC-25	2.5	HALL	REG	7/3/2014	SW3050	7/7/2014	SW6010B	III
7/3/2014	FFOR-CF-0027	FFOR-EXC-25	2.5	HALL	REG	7/7/2014	SW3540	7/8/2014	SW8015D - E	III
7/3/2014	FFOR-CF-0027	FFOR-EXC-25	2.5	HALL	REG	7/10/2014	SW5035	7/10/2014	SW8015D - P	III
7/3/2014	FFOR-CF-0027	FFOR-EXC-25	2.5	HALL	REG	7/3/2014	SW5035	7/3/2014	SW8260B	III
7/3/2014	FFOR-CF-0027	FFOR-EXC-25	2.5	HALL	REG	7/5/2014	SW3540	7/7/2014	SW8270C	III
SDG 1407901										
7/18/2014	FFOR-CF-0028	FFOR-EXC-26	7.5	HALL	REG	7/19/2014	SW3050	7/21/2014	SW6010B	III
7/18/2014	FFOR-CF-0028	FFOR-EXC-26	7.5	HALL	REG	7/21/2014	SW5035	7/21/2014	SW8015D - P	III
7/18/2014	FFOR-CF-0028	FFOR-EXC-26	7.5	HALL	REG	7/18/2014	SW3540	7/18/2014	SW8015D - E	III
7/18/2014	FFOR-CF-0028	FFOR-EXC-26	7.5	HALL	REG	7/18/2014	SW5035	7/18/2014	SW8260B	III
7/18/2014	FFOR-CF-0028	FFOR-EXC-26	7.5	HALL	REG	7/20/2014	SW3540	7/21/2014	SW8270C	III
7/18/2014	FFOR-CF-0029	FFOR-EXC-27	7.5	HALL	REG	7/19/2014	SW3050	7/21/2014	SW6010B	III
7/18/2014	FFOR-CF-0029	FFOR-EXC-27	7.5	HALL	REG	7/18/2014	SW3540	7/18/2014	SW8015D - E	III
7/18/2014	FFOR-CF-0029	FFOR-EXC-27	7.5	HALL	REG	7/21/2014	SW5035	7/21/2014	SW8015D - P	III
7/18/2014	FFOR-CF-0029	FFOR-EXC-27	7.5	HALL	REG	7/18/2014	SW5035	7/18/2014	SW8260B	III
7/18/2014	FFOR-CF-0029	FFOR-EXC-27	7.5	HALL	REG	7/20/2014	SW3540	7/21/2014	SW8270C	III
7/18/2014	FFOR-CF-0030	FFOR-EXC-28	7.5	HALL	REG	7/19/2014	SW3050	7/21/2014	SW6010B	III
7/18/2014	FFOR-CF-0030	FFOR-EXC-28	7.5	HALL	REG	7/21/2014	SW5035	7/21/2014	SW8015D - P	III
7/18/2014	FFOR-CF-0030	FFOR-EXC-28	7.5	HALL	REG	7/18/2014	SW3540	7/18/2014	SW8015D - E	III
7/18/2014	FFOR-CF-0030	FFOR-EXC-28	7.5	HALL	REG	7/18/2014	SW5035	7/18/2014	SW8260B	III
7/18/2014	FFOR-CF-0030	FFOR-EXC-28	7.5	HALL	REG	7/20/2014	SW3540	7/21/2014	SW8270C	III
7/18/2014	FFOR-CF-0031	FFOR-EXC-29	15	HALL	REG	7/19/2014	SW3050	7/21/2014	SW6010B	III
7/18/2014	FFOR-CF-0031	FFOR-EXC-29	15	HALL	REG	7/21/2014	SW5035	7/21/2014	SW8015D - P	III
7/18/2014	FFOR-CF-0031	FFOR-EXC-29	15	HALL	REG	7/18/2014	SW3540	7/18/2014	SW8015D - E	III
7/18/2014	FFOR-CF-0031	FFOR-EXC-29	15	HALL	REG	7/18/2014	SW5035	7/18/2014	SW8260B	III
7/18/2014	FFOR-CF-0031	FFOR-EXC-29	15	HALL	REG	7/20/2014	SW3540	7/21/2014	SW8270C	III
SDG 1407C55										
7/25/2014	FFOR-CF-0032	FFOR-EXC-30	7.5	HALL	REG	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0032	FFOR-EXC-30	7.5	HALL	REG	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0032	FFOR-EXC-30	7.5	HALL	REG	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0032	FFOR-EXC-30	7.5	HALL	REG	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0032	FFOR-EXC-30	7.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C	III

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FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1407C55										
7/25/2014	FFOR-CF-0033	FFOR-EXC-30	7.5	HALL	FD	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0033	FFOR-EXC-30	7.5	HALL	FD	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0033	FFOR-EXC-30	7.5	HALL	FD	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0033	FFOR-EXC-30	7.5	HALL	FD	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0033	FFOR-EXC-30	7.5	HALL	FD	7/27/2014	SW3540	7/28/2014	SW8270C	III
7/25/2014	FFOR-CF-0034	FFOR-EXC-31	7.5	HALL	REG	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0034	FFOR-EXC-31	7.5	HALL	REG	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0034	FFOR-EXC-31	7.5	HALL	REG	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0034	FFOR-EXC-31	7.5	HALL	REG	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0034	FFOR-EXC-31	7.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C	III
7/25/2014	FFOR-CF-0035	FFOR-EXC-32	7.5	HALL	REG	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0035	FFOR-EXC-32	7.5	HALL	REG	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0035	FFOR-EXC-32	7.5	HALL	REG	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0035	FFOR-EXC-32	7.5	HALL	REG	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0035	FFOR-EXC-32	7.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C	III
7/25/2014	FFOR-CF-0036	FFOR-EXC-33	7.5	HALL	REG	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0036	FFOR-EXC-33	7.5	HALL	REG	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0036	FFOR-EXC-33	7.5	HALL	REG	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0036	FFOR-EXC-33	7.5	HALL	REG	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0036	FFOR-EXC-33	7.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C	III
7/25/2014	FFOR-CF-0037	FFOR-EXC-34	15	HALL	REG	7/28/2014	SW3050	7/29/2014	SW6010B	III
7/25/2014	FFOR-CF-0037	FFOR-EXC-34	15	HALL	REG	7/28/2014	SW3540	7/29/2014	SW8015D - E	III
7/25/2014	FFOR-CF-0037	FFOR-EXC-34	15	HALL	REG	7/28/2014	SW5035	7/28/2014	SW8015D - P	III
7/25/2014	FFOR-CF-0037	FFOR-EXC-34	15	HALL	REG	7/25/2014	SW5035	7/25/2014	SW8260B	III
7/25/2014	FFOR-CF-0037	FFOR-EXC-34	15	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C	III
SDG 1407D63										
7/29/2014	FFOR-CF-0038	FFOR-EXC-35	10	HALL	REG	7/30/2014	SW3050	7/31/2014	SW6010B	III
7/29/2014	FFOR-CF-0038	FFOR-EXC-35	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8015D - E	III
7/29/2014	FFOR-CF-0038	FFOR-EXC-35	10	HALL	REG	7/31/2014	SW5035	7/31/2014	SW8015D - P	III
7/29/2014	FFOR-CF-0038	FFOR-EXC-35	10	HALL	REG	7/31/2014	SW5035	7/31/2014	SW8260B	III
7/29/2014	FFOR-CF-0038	FFOR-EXC-35	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8270C	III
7/29/2014	FFOR-CF-0039	FFOR-EXC-36	10	HALL	REG	7/30/2014	SW3050	7/31/2014	SW6010B	III
7/29/2014	FFOR-CF-0039	FFOR-EXC-36	10	HALL	REG	7/31/2014	SW5035	7/31/2014	SW8015D - P	III
7/29/2014	FFOR-CF-0039	FFOR-EXC-36	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8015D - E	III
7/29/2014	FFOR-CF-0039	FFOR-EXC-36	10	HALL	REG	7/31/2014	SW5035	7/31/2014	SW8260B	III
7/29/2014	FFOR-CF-0039	FFOR-EXC-36	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8270C	III

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FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1407D63										
7/29/2014	FFOR-CF-0040	FFOR-EXC-37	10	HALL	REG	7/30/2014	SW3050	7/31/2014	SW6010B	III
7/29/2014	FFOR-CF-0040	FFOR-EXC-37	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8015D - E	III
7/29/2014	FFOR-CF-0040	FFOR-EXC-37	10	HALL	REG	7/30/2014	SW5035	7/30/2014	SW8015D - P	III
7/29/2014	FFOR-CF-0040	FFOR-EXC-37	10	HALL	REG	7/30/2014	SW5035	7/30/2014	SW8260B	III
7/29/2014	FFOR-CF-0040	FFOR-EXC-37	10	HALL	REG	7/30/2014	SW3540	7/31/2014	SW8270C	III
SDG 1407F02										
7/31/2014	FFOR-CF-0041	FFOR-EXC-38	20	HALL	REG	8/1/2014	SW3050	8/5/2014	SW6010B	III
7/31/2014	FFOR-CF-0041	FFOR-EXC-38	20	HALL	REG	8/1/2014	SW3540	8/4/2014	SW8015D - E	III
7/31/2014	FFOR-CF-0041	FFOR-EXC-38	20	HALL	REG	8/4/2014	SW5035	8/4/2014	SW8015D - P	III
7/31/2014	FFOR-CF-0041	FFOR-EXC-38	20	HALL	REG	8/4/2014	SW5035	8/4/2014	SW8260B	III
7/31/2014	FFOR-CF-0041	FFOR-EXC-38	20	HALL	REG	8/4/2014	SW3540	8/5/2014	SW8270C	III
SDG 1408347										
8/7/2014	FFOR-CF-0042	FFOR-EXC-39	7.5	HALL	REG	8/8/2014	SW3050	8/11/2014	SW6010B	III
8/7/2014	FFOR-CF-0042	FFOR-EXC-39	7.5	HALL	REG	8/8/2014	SW3540	8/11/2014	SW8015D - E	III
8/7/2014	FFOR-CF-0042	FFOR-EXC-39	7.5	HALL	REG	8/8/2014	SW5035	8/8/2014	SW8015D - P	III
8/7/2014	FFOR-CF-0042	FFOR-EXC-39	7.5	HALL	REG	8/8/2014	SW5035	8/8/2014	SW8260B	III
8/7/2014	FFOR-CF-0042	FFOR-EXC-39	7.5	HALL	REG	8/9/2014	SW3540	8/12/2014	SW8270C	III
SDG 1408893										
8/18/2014	FFOR-CF-0043	FFOR-EXC-40	10	HALL	REG	8/19/2014	SW3050	8/20/2014	SW6010B	III
8/18/2014	FFOR-CF-0043	FFOR-EXC-40	10	HALL	REG	8/19/2014	SW3540	8/20/2014	SW8015D - E	III
8/18/2014	FFOR-CF-0043	FFOR-EXC-40	10	HALL	REG	8/19/2014	SW5035	8/19/2014	SW8015D - P	III
8/18/2014	FFOR-CF-0043	FFOR-EXC-40	10	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8260B	III
8/18/2014	FFOR-CF-0043	FFOR-EXC-40	10	HALL	REG	8/20/2014	SW3540	8/21/2014	SW8270C	III
8/18/2014	FFOR-CF-0044	FFOR-EXC-40	10	HALL	FD	8/19/2014	SW3050	8/20/2014	SW6010B	III
8/18/2014	FFOR-CF-0044	FFOR-EXC-40	10	HALL	FD	8/19/2014	SW5035	8/19/2014	SW8015D - P	III
8/18/2014	FFOR-CF-0044	FFOR-EXC-40	10	HALL	FD	8/19/2014	SW3540	8/20/2014	SW8015D - E	III
8/18/2014	FFOR-CF-0044	FFOR-EXC-40	10	HALL	FD	8/20/2014	SW5035	8/20/2014	SW8260B	III
8/18/2014	FFOR-CF-0044	FFOR-EXC-40	10	HALL	FD	8/20/2014	SW3540	8/21/2014	SW8270C	III
8/18/2014	FFOR-CF-0045	FFOR-EXC-41	10	HALL	REG	8/19/2014	SW3050	8/20/2014	SW6010B	III
8/18/2014	FFOR-CF-0045	FFOR-EXC-41	10	HALL	REG	8/19/2014	SW3540	8/20/2014	SW8015D - E	III
8/18/2014	FFOR-CF-0045	FFOR-EXC-41	10	HALL	REG	8/19/2014	SW5035	8/19/2014	SW8015D - P	III
8/18/2014	FFOR-CF-0045	FFOR-EXC-41	10	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8260B	III
8/18/2014	FFOR-CF-0045	FFOR-EXC-41	10	HALL	REG	8/20/2014	SW3540	8/21/2014	SW8270C	III
SDG 1408994										
8/19/2014	FFOR-CF-0046	FFOR-EXC-42	10	HALL	REG	8/20/2014	SW3050	8/21/2014	SW6010B	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1408994										
8/19/2014	FFOR-CF-0046	FFOR-EXC-42	10	HALL	REG	8/20/2014	SW3540	8/22/2014	SW8015D - E	III
8/19/2014	FFOR-CF-0046	FFOR-EXC-42	10	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8015D - P	III
8/19/2014	FFOR-CF-0046	FFOR-EXC-42	10	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8260B	III
8/19/2014	FFOR-CF-0046	FFOR-EXC-42	10	HALL	REG	8/20/2014	SW3540	8/21/2014	SW8270C	III
8/19/2014	FFOR-CF-0047	FFOR-EXC-43	20	HALL	REG	8/20/2014	SW3050	8/21/2014	SW6010B	III
8/19/2014	FFOR-CF-0047	FFOR-EXC-43	20	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8015D - P	III
8/19/2014	FFOR-CF-0047	FFOR-EXC-43	20	HALL	REG	8/20/2014	SW3540	8/22/2014	SW8015D - E	III
8/19/2014	FFOR-CF-0047	FFOR-EXC-43	20	HALL	REG	8/20/2014	SW5035	8/20/2014	SW8260B	III
8/19/2014	FFOR-CF-0047	FFOR-EXC-43	20	HALL	REG	8/20/2014	SW3540	8/21/2014	SW8270C	III
SDG 1408A76										
8/20/2014	FFOR-CF-0048	FFOR-EXC-44	10	HALL	REG	8/22/2014	SW3050	8/25/2014	SW6010B	III
8/20/2014	FFOR-CF-0048	FFOR-EXC-44	10	HALL	REG	8/21/2014	SW3540	8/25/2014	SW8015D - E	III
8/20/2014	FFOR-CF-0048	FFOR-EXC-44	10	HALL	REG	8/21/2014	SW5035	8/21/2014	SW8015D - P	III
8/20/2014	FFOR-CF-0048	FFOR-EXC-44	10	HALL	REG	8/21/2014	SW5035	8/21/2014	SW8260B	III
8/20/2014	FFOR-CF-0048	FFOR-EXC-44	10	HALL	REG	8/21/2014	SW3540	8/22/2014	SW8270C	III
8/20/2014	FFOR-CF-0049	FFOR-EXC-45	10	HALL	REG	8/22/2014	SW3050	8/25/2014	SW6010B	III
8/20/2014	FFOR-CF-0049	FFOR-EXC-45	10	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8015D - P	III
8/20/2014	FFOR-CF-0049	FFOR-EXC-45	10	HALL	REG	8/21/2014	SW3540	8/25/2014	SW8015D - E	III
8/20/2014	FFOR-CF-0049 *	FFOR-EXC-45	10	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8260B	III
8/20/2014	FFOR-CF-0049 *	FFOR-EXC-45	10	HALL	REG	8/21/2014	SW5035	8/21/2014	SW8260B	III
8/20/2014	FFOR-CF-0049	FFOR-EXC-45	10	HALL	REG	8/21/2014	SW3540	8/22/2014	SW8270C	III
8/20/2014	FFOR-CF-0050	FFOR-EXC-46	10	HALL	REG	8/22/2014	SW3050	8/25/2014	SW6010B	III
8/20/2014	FFOR-CF-0050	FFOR-EXC-46	10	HALL	REG	8/21/2014	SW3540	8/25/2014	SW8015D - E	III
8/20/2014	FFOR-CF-0050	FFOR-EXC-46	10	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8015D - P	III
8/20/2014	FFOR-CF-0050	FFOR-EXC-46	10	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8260B	III
8/20/2014	FFOR-CF-0050	FFOR-EXC-46	10	HALL	REG	8/21/2014	SW3540	8/22/2014	SW8270C	III
SDG 1408B56										
8/21/2014	FFOR-CF-0051	FFOR-EXC-47	20	HALL	REG	8/22/2014	SW3050	8/25/2014	SW6010B	III
8/21/2014	FFOR-CF-0051	FFOR-EXC-47	20	HALL	REG	8/22/2014	SW3540	8/25/2014	SW8015D - E	III
8/21/2014	FFOR-CF-0051	FFOR-EXC-47	20	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8015D - P	III
8/21/2014	FFOR-CF-0051	FFOR-EXC-47	20	HALL	REG	8/22/2014	SW5035	8/22/2014	SW8260B	III
8/21/2014	FFOR-CF-0051	FFOR-EXC-47	20	HALL	REG	8/25/2014	SW3540	8/26/2014	SW8270C	III
SDG 1408E34										
8/27/2014	FFOR-CF-0052	FFOR-EXC-48	10	HALL	REG	8/29/2014	SW3050	9/2/2014	SW6010B	III
8/27/2014	FFOR-CF-0052	FFOR-EXC-48	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8015D - P	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1408E34										
8/27/2014	FFOR-CF-0052	FFOR-EXC-48	10	HALL	REG	8/28/2014	SW3540	8/29/2014	SW8015D - E	III
8/27/2014	FFOR-CF-0052	FFOR-EXC-48	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8260B	III
8/27/2014	FFOR-CF-0052	FFOR-EXC-48	10	HALL	REG	8/28/2014	SW3540	8/29/2014	SW8270C	III
8/27/2014	FFOR-CF-0053	FFOR-EXC-49	20	HALL	REG	8/29/2014	SW3050	9/2/2014	SW6010B	III
8/27/2014	FFOR-CF-0053	FFOR-EXC-49	20	HALL	REG	8/28/2014	SW3540	8/29/2014	SW8015D - E	III
8/27/2014	FFOR-CF-0053	FFOR-EXC-49	20	HALL	REG	8/30/2014	SW5035	8/30/2014	SW8015D - P	III
8/27/2014	FFOR-CF-0053	FFOR-EXC-49	20	HALL	REG	8/30/2014	SW5035	8/30/2014	SW8260B	III
8/27/2014	FFOR-CF-0053	FFOR-EXC-49	20	HALL	REG	8/28/2014	SW3540	8/29/2014	SW8270C	III
SDG 1409046										
9/2/2014	FFOR-CF-0054	FFOR-EXC-50	10	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0054	FFOR-EXC-50	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0054	FFOR-EXC-50	10	HALL	REG	9/3/2014	SW3540	9/3/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0054	FFOR-EXC-50	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/2/2014	FFOR-CF-0054	FFOR-EXC-50	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0055	FFOR-EXC-50	10	HALL	FD	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0055	FFOR-EXC-50	10	HALL	FD	9/4/2014	SW5035	9/4/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0055	FFOR-EXC-50	10	HALL	FD	9/3/2014	SW3540	9/3/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0055	FFOR-EXC-50	10	HALL	FD	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/2/2014	FFOR-CF-0055	FFOR-EXC-50	10	HALL	FD	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0056	FFOR-EXC-51	10	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0056	FFOR-EXC-51	10	HALL	REG	9/3/2014	SW3540	9/3/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0056	FFOR-EXC-51	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0056	FFOR-EXC-51	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8260B	III
9/2/2014	FFOR-CF-0056	FFOR-EXC-51	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0057	FFOR-EXC-52	10	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0057	FFOR-EXC-52	10	HALL	REG	9/3/2014	SW3540	9/3/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0057	FFOR-EXC-52	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0057	FFOR-EXC-52	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/2/2014	FFOR-CF-0057	FFOR-EXC-52	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0058	FFOR-EXC-53	10	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0058	FFOR-EXC-53	10	HALL	REG	9/3/2014	SW3540	9/3/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0058	FFOR-EXC-53	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0058	FFOR-EXC-53	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/2/2014	FFOR-CF-0058	FFOR-EXC-53	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0059	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0059	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8015D - E	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1409046										
9/2/2014	FFOR-CF-0059	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0059	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8260B	III
9/2/2014	FFOR-CF-0059 *	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
9/2/2014	FFOR-CF-0059 *	FFOR-EXC-54	10	HALL	REG	9/3/2014	SW3540	9/5/2014	SW8270C	III
9/2/2014	FFOR-CF-0060	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW3050	9/4/2014	SW6010B	III
9/2/2014	FFOR-CF-0060	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8015D - P	III
9/2/2014	FFOR-CF-0060	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8015D - E	III
9/2/2014	FFOR-CF-0060	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW5035	9/3/2014	SW8260B	III
9/2/2014	FFOR-CF-0060 *	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW3540	9/5/2014	SW8270C	III
9/2/2014	FFOR-CF-0060 *	FFOR-EXC-55	20	HALL	REG	9/3/2014	SW3540	9/4/2014	SW8270C	III
SDG 1409136										
9/3/2014	FFOR-CF-0061	FFOR-EXC-56	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/3/2014	FFOR-CF-0061	FFOR-EXC-56	10	HALL	REG	9/4/2014	SW3540	9/4/2014	SW8015D - E	III
9/3/2014	FFOR-CF-0061	FFOR-EXC-56	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8015D - P	III
9/3/2014	FFOR-CF-0061	FFOR-EXC-56	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/3/2014	FFOR-CF-0061	FFOR-EXC-56	10	HALL	REG	9/4/2014	SW3540	9/5/2014	SW8270C	III
9/3/2014	FFOR-CF-0062	FFOR-EXC-57	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/3/2014	FFOR-CF-0062	FFOR-EXC-57	10	HALL	REG	9/4/2014	SW3540	9/4/2014	SW8015D - E	III
9/3/2014	FFOR-CF-0062	FFOR-EXC-57	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8015D - P	III
9/3/2014	FFOR-CF-0062	FFOR-EXC-57	10	HALL	REG	9/4/2014	SW5035	9/4/2014	SW8260B	III
9/3/2014	FFOR-CF-0062	FFOR-EXC-57	10	HALL	REG	9/4/2014	SW3540	9/5/2014	SW8270C	III
SDG 1409219										
9/4/2014	FFOR-CF-0063	FFOR-EXC-58	5	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0063	FFOR-EXC-58	5	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0063	FFOR-EXC-58	5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0063	FFOR-EXC-58	5	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0063	FFOR-EXC-58	5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0064	FFOR-EXC-59	5	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0064	FFOR-EXC-59	5	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0064	FFOR-EXC-59	5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0064	FFOR-EXC-59	5	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0064	FFOR-EXC-59	5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0065	FFOR-EXC-60	5	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0065	FFOR-EXC-60	5	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0065	FFOR-EXC-60	5	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0065	FFOR-EXC-60	5	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III

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FFOR Soil Event, June - Sepetember 2014
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Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1409219										
9/4/2014	FFOR-CF-0065	FFOR-EXC-60	5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0066	FFOR-EXC-60	5	HALL	FD	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0066	FFOR-EXC-60	5	HALL	FD	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0066	FFOR-EXC-60	5	HALL	FD	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0066	FFOR-EXC-60	5	HALL	FD	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0066	FFOR-EXC-60	5	HALL	FD	9/7/2014	SW3540	9/9/2014	SW8270C	III
9/4/2014	FFOR-CF-0067	FFOR-EXC-61	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0067	FFOR-EXC-61	10	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0067	FFOR-EXC-61	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0067	FFOR-EXC-61	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0067	FFOR-EXC-61	10	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0068	FFOR-EXC-62	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0068	FFOR-EXC-62	10	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0068	FFOR-EXC-62	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0068	FFOR-EXC-62	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0068	FFOR-EXC-62	10	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0069	FFOR-EXC-63	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0069	FFOR-EXC-63	10	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0069	FFOR-EXC-63	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0069	FFOR-EXC-63	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0069	FFOR-EXC-63	10	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0070	FFOR-EXC-64	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0070	FFOR-EXC-64	10	HALL	REG	9/5/2014	SW3540	9/7/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0070	FFOR-EXC-64	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0070	FFOR-EXC-64	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0070	FFOR-EXC-64	10	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/4/2014	FFOR-CF-0071	FFOR-EXC-65	10	HALL	REG	9/5/2014	SW3050	9/6/2014	SW6010B	III
9/4/2014	FFOR-CF-0071	FFOR-EXC-65	10	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/4/2014	FFOR-CF-0071	FFOR-EXC-65	10	HALL	REG	9/5/2014	SW3540	9/8/2014	SW8015D - E	III
9/4/2014	FFOR-CF-0071 *	FFOR-EXC-65	10	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/4/2014	FFOR-CF-0071 *	FFOR-EXC-65	10	HALL	REG	9/5/2014	SW5035	9/5/2014	SW8260B	III
9/4/2014	FFOR-CF-0071	FFOR-EXC-65	10	HALL	REG	9/7/2014	SW3540	9/9/2014	SW8270C	III
SDG 1409275										
9/5/2014	FFOR-CF-0072	FFOR-EXC-66	20	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0072	FFOR-EXC-66	20	HALL	REG	9/6/2014	SW3540	9/8/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0072	FFOR-EXC-66	20	HALL	REG	9/12/2014	SW5035	9/12/2014	SW8015D - P	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1409275										
9/5/2014	FFOR-CF-0072 *	FFOR-EXC-66	20	HALL	REG	9/12/2014	SW5035	9/12/2014	SW8260B	III
9/5/2014	FFOR-CF-0072 *	FFOR-EXC-66	20	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0072 *	FFOR-EXC-66	20	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0072 *	FFOR-EXC-66	20	HALL	REG	9/7/2014	SW3540	9/9/2014	SW8270C	III
9/5/2014	FFOR-CF-0073	FFOR-EXC-67	10	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0073	FFOR-EXC-67	10	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0073	FFOR-EXC-67	10	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0073	FFOR-EXC-67	10	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0073	FFOR-EXC-67	10	HALL	REG	9/7/2014	SW3540	9/9/2014	SW8270C	III
9/5/2014	FFOR-CF-0074	FFOR-EXC-68	20	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0074	FFOR-EXC-68	20	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0074	FFOR-EXC-68	20	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0074	FFOR-EXC-68	20	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0074	FFOR-EXC-68	20	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0075	FFOR-EXC-69	7.5	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0075	FFOR-EXC-69	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0075	FFOR-EXC-69	7.5	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0075	FFOR-EXC-69	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0075	FFOR-EXC-69	7.5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0076	FFOR-EXC-70	7.5	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0076	FFOR-EXC-70	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0076	FFOR-EXC-70	7.5	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0076	FFOR-EXC-70	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0076	FFOR-EXC-70	7.5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0077	FFOR-EXC-70	7.5	HALL	FD	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0077	FFOR-EXC-70	7.5	HALL	FD	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0077	FFOR-EXC-70	7.5	HALL	FD	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0077	FFOR-EXC-70	7.5	HALL	FD	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0077	FFOR-EXC-70	7.5	HALL	FD	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0111	FFOR-EXC-71	7.5	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0111	FFOR-EXC-71	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0111	FFOR-EXC-71	7.5	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0111	FFOR-EXC-71	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0111	FFOR-EXC-71	7.5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0112	FFOR-EXC-72	7.5	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0112	FFOR-EXC-72	7.5	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Date Collected	Field Sample ID	Sample Location	Sample Depth (ft bgs)	Lab	Sample Type	Date Extracted	Extraction Method	Date Analyzed	Analytical Method	Review Level
Confirmation Samples										
SDG 1409275										
9/5/2014	FFOR-CF-0112	FFOR-EXC-72	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0112	FFOR-EXC-72	7.5	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0112	FFOR-EXC-72	7.5	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
9/5/2014	FFOR-CF-0113	FFOR-EXC-73	15	HALL	REG	9/8/2014	SW3050	9/9/2014	SW6010B	III
9/5/2014	FFOR-CF-0113	FFOR-EXC-73	15	HALL	REG	9/6/2014	SW3540	9/6/2014	SW8015D - E	III
9/5/2014	FFOR-CF-0113	FFOR-EXC-73	15	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8015D - P	III
9/5/2014	FFOR-CF-0113	FFOR-EXC-73	15	HALL	REG	9/8/2014	SW5035	9/8/2014	SW8260B	III
9/5/2014	FFOR-CF-0113	FFOR-EXC-73	15	HALL	REG	9/7/2014	SW3540	9/8/2014	SW8270C	III
Step Out Samples										
SDG 1407965										
7/21/2014	FFOR-CF-0078	FFOR-EXCSO-01	2.5	HALL	REG	7/22/2014	SW3540	7/23/2014	SW8270C_SIM	III
SDG 1407B98										
7/24/2014	FFOR-CF-0079	FFOR-EXCSO-02	2.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C_SIM	III
7/24/2014	FFOR-CF-0080	FFOR-EXCSO-03	5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C_SIM	III
7/24/2014	FFOR-CF-0081	FFOR-EXCSO-04	2.5	HALL	REG	7/27/2014	SW3540	7/28/2014	SW8270C_SIM	III
SDG 1408830										
8/15/2014	FFOR-CF-0082	FFOR-EXCSO-05	7.5	HALL	REG	8/18/2014	SW3540	8/19/2014	SW8270C_SIM	III
SDG 1409136										
9/3/2014	FFOR-CF-0083	FFOR-EXCSO-06	10	HALL	REG	9/4/2014	SW3540	9/5/2014	SW8270C_SIM	III
SDG 1409275										
9/5/2014	FFOR-CF-0084	FFOR-EXCSO-07	10	HALL	REG	9/8/2014	SW3540	9/9/2014	SW8270C_SIM	III
9/5/2014	FFOR-CF-0085	FFOR-EXCSO-07	10	HALL	FD	9/8/2014	SW3540	9/9/2014	SW8270C_SIM	III
SDG 1409339										
9/8/2014	FFOR-CF-0086	FFOR-EXCSO-08	10	HALL	REG	9/9/2014	SW3540	9/10/2014	SW8270C_SIM	III
9/8/2014	FFOR-CF-0087	FFOR-EXCSO-09	10	HALL	REG	9/9/2014	SW3540	9/10/2014	SW8270C_SIM	III
9/8/2014	FFOR-CF-0088	FFOR-EXCSO-10	10	HALL	REG	9/9/2014	SW3540	9/10/2014	SW8270C_SIM	III
SDG 1409490										
9/10/2014	FFOR-CF-0089	FFOR-EXCSO-11	20	HALL	REG	9/14/2014	SW3540	9/15/2014	SW8270C_SIM	III
SDG 1409570										
9/11/2014	FFOR-CF-0090	FFOR-EXCSO-12	7.5	HALL	REG	9/14/2014	SW3540	9/15/2014	SW8270C_SIM	III
SDG 1409712										
9/16/2014	FFOR-CF-0091	FFOR-EXCSO-13	7.5	HALL	REG	9/16/2014	SW3540	9/17/2014	SW8270C_SIM	III

Appendix G - Table 1: Summary of Samples Collected, Sample Date, Sample Location, Sample Depth, Extraction Method, Analysis Method, and Data Review Level
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Notes:

ft bgs	Feet below ground surface
NA	Not applicable
III	Samples received Level III data review
ANATEK	Anatek Laboratory
ESC	ESC Laboratory
HALL	Hall Environmental Analysis Laboratory
FD	Field Duplicate
REG	Normal sample sent to the lab
SDG	Sample Delivery Group
SW8015 - E	SW8015 - Extractable
SW8015 - P	SW8015 - Purgeable

*	Compounds for the sample and method were extracted and/or analyzed on more than one day

Appendix G – Table 2. Data Qualification Flags and Reason Codes

Data Qualifier Definitions for Organic Data Review

Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported limit of quantitation.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; the associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; the associated numerical value is its approximate concentration with a high bias in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
NJ	The analysis indicates the presence of an analyte that has been ”tentatively identified,” and the associated value represents its approximate concentration.
UJ	The analyte was not detected above the reported limit of quantitation. However, the reported limit of quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are unusable for any purposes.

Data Qualifier Definitions for Inorganic Data Review

Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the level of the reported value. The reported value is the limit of quantitation for water and soil for all the analytes except cyanide and mercury. For cyanide and mercury, the reported value is the contract-required detection limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
J-	The analyte was positively identified; the associated numerical value is its approximate concentration with a low bias in the sample.
J+	The analyte was positively identified; the associated numerical value is its approximate concentration with a high bias in the sample.
UJ	The analyte was analyzed for but was not detected above the reported value. The reported value may not accurately or precisely represent the sample limit of quantitation.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are unusable for any purposes.

Appendix G – Table 2. Data Qualification Flags and Reason Codes (concluded)

Reason Codes for Data Review and Validation

Reason Code	Description
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag "-"	Calibration blank indicates negative interference; false negatives may be present.
C	Calibration outside control limits.
D	Sample results precision between primary and secondary columns outside control limit.
D1	Sample duplicate relative percent difference (RPD) outside control limit.
D2	Matrix duplicate RPD outside control limit.
D3	Laboratory control sample duplicate RPD outside control limit.
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration relative standard deviation outside control limit.
G2	Initial continuing calibration relative response factor outside control limit.
G3	Continuing calibration relative response factor outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Ambient blank contamination.
K3	Trip blank contamination.
L	Laboratory control sample outside control limits.
M	Matrix spike outside control limits.
O	Interference check sample outside acceptance criteria.
P	Analyte qualified based on the professional judgment of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the detection limit and limit of quantitation.
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.

Appendix G - Table 3
Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code B1			**Method SW8260B**							
FFOR-CF-0001	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000665	0.00332	1	mg/kg	U
FFOR-CF-0002	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000678	0.00339	1	mg/kg	U
FFOR-CF-0003	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000662	0.00331	1	mg/kg	U
FFOR-CF-0004	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.00061	0.00305	1	mg/kg	U
FFOR-CF-0005	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000662	0.00331	1	mg/kg	U
FFOR-CF-0006	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000687	0.00344	1	mg/kg	U
FFOR-CF-0007	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.000671	0.00335	1	mg/kg	U
FFOR-CF-0008	REG	6/30/2014	BROMOMETHANE	1406D88	ND	0.00066	0.0033	1	mg/kg	U
FFOR-CF-0009	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000674	0.00337	1	mg/kg	U
FFOR-CF-0010	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000798	0.00399	1	mg/kg	U
FFOR-CF-0011	FD	7/1/2014	BROMOMETHANE	1407066	ND	0.000663	0.00332	1	mg/kg	U
FFOR-CF-0012	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000663	0.00331	1	mg/kg	U
FFOR-CF-0013	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000717	0.00359	1	mg/kg	U
FFOR-CF-0014	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000798	0.00399	1	mg/kg	U
FFOR-CF-0015	REG	7/1/2014	BROMOMETHANE	1407066	ND	0.000815	0.00407	1	mg/kg	U
FFOR-CF-0016	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000802	0.00401	1	mg/kg	U
FFOR-CF-0017	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000696	0.00348	1	mg/kg	U
FFOR-CF-0018	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000747	0.00373	1	mg/kg	U
FFOR-CF-0020	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000726	0.00363	1	mg/kg	U
FFOR-CF-0021	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000818	0.00409	1	mg/kg	U
FFOR-CF-0025	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000819	0.0041	1	mg/kg	U
FFOR-CF-0026	REG	7/2/2014	BROMOMETHANE	1407139	ND	0.000697	0.00349	1	mg/kg	U
FFOR-CF-0027	REG	7/3/2014	BROMOMETHANE	1407188	ND	0.000718	0.00359	1	mg/kg	U
FFOR-CF-0043	REG	8/18/2014	BROMOMETHANE	1408893	ND	0.000788	0.00394	1	mg/kg	U
FFOR-CF-0044	FD	8/18/2014	BROMOMETHANE	1408893	ND	0.0008	0.004	1	mg/kg	U
FFOR-CF-0045	REG	8/18/2014	BROMOMETHANE	1408893	ND	0.000824	0.00412	1	mg/kg	U
FFOR-CF-0046	REG	8/19/2014	BROMOMETHANE	1408994	ND	0.000702	0.00351	1	mg/kg	U
FFOR-CF-0049	REG	8/20/2014	METHYLENE CHLORIDE	1408A76	ND	0.017	0.54	5	mg/kg	U
FFOR-CF-0052	REG	8/27/2014	METHYLENE CHLORIDE	1408E34	ND	0.0034	0.11	1	mg/kg	U
FFOR-CF-0054	REG	9/2/2014	BROMOMETHANE	1409046	ND	0.000721	0.00361	1	mg/kg	U
FFOR-CF-0055	FD	9/2/2014	BROMOMETHANE	1409046	ND	0.000749	0.00375	1	mg/kg	U
FFOR-CF-0056	REG	9/2/2014	METHYLENE CHLORIDE	1409046	ND	0.0034	0.11	1	mg/kg	U
FFOR-CF-0058	REG	9/2/2014	BROMOMETHANE	1409046	ND	0.000687	0.00344	1	mg/kg	U
FFOR-CF-0061	REG	9/3/2014	BROMOMETHANE	1409136	ND	0.000651	0.00326	1	mg/kg	U
FFOR-CF-0063	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.00037	0.00185	1	mg/kg	U
FFOR-CF-0064	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.000305	0.00152	1	mg/kg	U
FFOR-CF-0065	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.000362	0.00181	1	mg/kg	U

Appendix G - Table 3
Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code B1			**Method SW8260B**							
FFOR-CF-0066	FD	9/4/2014	BROMOMETHANE	1409219	0.002	0.000386	0.00193	1	mg/kg	U
FFOR-CF-0067	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.000382	0.00191	1	mg/kg	U
FFOR-CF-0068	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.000369	0.00184	1	mg/kg	U
FFOR-CF-0069	REG	9/4/2014	METHYLENE CHLORIDE	1409219	ND	0.0034	0.11	1	mg/kg	U
FFOR-CF-0070	REG	9/4/2014	BROMOMETHANE	1409219	0.002	0.00036	0.0018	1	mg/kg	U
FFOR-CF-0071	REG	9/4/2014	METHYLENE CHLORIDE	1409219	ND	0.0038	0.12	1	mg/kg	U
Reason Code B1			**Method SW8270C**							
FFOR-CF-0014	REG	7/1/2014	PHENANTHRENE	1407066	ND	0.078	0.43	1	mg/kg	U
FFOR-CF-0020	REG	7/2/2014	3-Methylphenol and 4-methylphenol	1407139	ND	0.079	0.23	1	mg/kg	U
FFOR-CF-0070	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.048	0.53	1	mg/kg	U
FFOR-CF-0113	REG	9/5/2014	DI-N-BUTYL PHTHALATE	1409275	ND	0.05	0.55	1	mg/kg	U
Reason Code B1C			**Method SW8260B**							
FFOR-CF-0073	REG	9/5/2014	BROMOMETHANE	1409275	0.004	0.000715	0.00358	1	mg/kg	UJ
FFOR-CF-0075	REG	9/5/2014	BROMOMETHANE	1409275	ND	0.000811	0.00406	1	mg/kg	UJ
FFOR-CF-0076	REG	9/5/2014	BROMOMETHANE	1409275	ND	0.000699	0.00349	1	mg/kg	UJ
FFOR-CF-0077	FD	9/5/2014	BROMOMETHANE	1409275	0.004	0.000793	0.00396	1	mg/kg	UJ
FFOR-CF-0111	REG	9/5/2014	BROMOMETHANE	1409275	ND	0.000675	0.00338	1	mg/kg	UJ
FFOR-CF-0112	REG	9/5/2014	BROMOMETHANE	1409275	0.004	0.000754	0.00377	1	mg/kg	UJ
FFOR-CF-0113	REG	9/5/2014	BROMOMETHANE	1409275	0.004	0.000743	0.00372	1	mg/kg	UJ
Reason Code B1S			**Method SW8260B**							
FFOR-CF-0041	REG	7/31/2014	ACETONE	1407F02	ND	0.31	4.8	10	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	METHYLENE CHLORIDE	1407F02	ND	0.03	0.96	10	mg/kg	UJ
FFOR-CF-0062	REG	9/3/2014	METHYLENE CHLORIDE	1409136	ND	0.0036	0.11	1	mg/kg	UJ
Reason Code C			**Method SW8015D - Extractable**							
FFOR-CF-0028	REG	7/18/2014	DIESEL RANGE ORGANICS (DRO)	1407901	ND	5.8	11	1	mg/kg	UJ
FFOR-CF-0029	REG	7/18/2014	DIESEL RANGE ORGANICS (DRO)	1407901	ND	6	11	1	mg/kg	UJ
FFOR-CF-0030	REG	7/18/2014	DIESEL RANGE ORGANICS (DRO)	1407901	ND	5.9	11	1	mg/kg	UJ
FFOR-CF-0031	REG	7/18/2014	DIESEL RANGE ORGANICS (DRO)	1407901	ND	6.3	11	1	mg/kg	UJ
Reason Code C			**Method SW8260B**							
FFOR-CF-0016	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000802	0.0016	1	mg/kg	UJ
FFOR-CF-0017	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000696	0.00139	1	mg/kg	UJ
FFOR-CF-0018	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000747	0.00149	1	mg/kg	UJ
FFOR-CF-0019	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000688	0.00138	1	mg/kg	UJ
FFOR-CF-0020	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000726	0.00145	1	mg/kg	UJ
FFOR-CF-0021	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000818	0.00164	1	mg/kg	UJ
FFOR-CF-0022	FD	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000891	0.00178	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code C			**Method SW8260B**							
FFOR-CF-0023	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000722	0.00144	1	mg/kg	UJ
FFOR-CF-0024	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000677	0.00135	1	mg/kg	UJ
FFOR-CF-0025	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000819	0.00164	1	mg/kg	UJ
FFOR-CF-0026	REG	7/2/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407139	ND	0.000697	0.00139	1	mg/kg	UJ
FFOR-CF-0028	REG	7/18/2014	BROMOMETHANE	1407901	ND	0.000765	0.00383	1	mg/kg	UJ
FFOR-CF-0029	REG	7/18/2014	BROMOMETHANE	1407901	ND	0.000693	0.00347	1	mg/kg	UJ
FFOR-CF-0030	REG	7/18/2014	BROMOMETHANE	1407901	ND	0.000715	0.00357	1	mg/kg	UJ
FFOR-CF-0031	REG	7/18/2014	BROMOMETHANE	1407901	ND	0.000813	0.00407	1	mg/kg	UJ
FFOR-CF-0032	REG	7/25/2014	2-BUTANONE	1407C55	ND	0.00728	0.00728	1	mg/kg	UJ
FFOR-CF-0032	REG	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.000728	0.00146	1	mg/kg	UJ
FFOR-CF-0032	REG	7/25/2014	VINYL ACETATE	1407C55	ND	0.00728	0.00728	1	mg/kg	UJ
FFOR-CF-0033	FD	7/25/2014	2-BUTANONE	1407C55	ND	0.0075	0.0075	1	mg/kg	UJ
FFOR-CF-0033	FD	7/25/2014	BROMOMETHANE	1407C55	ND	0.00075	0.00375	1	mg/kg	UJ
FFOR-CF-0033	FD	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.00075	0.0015	1	mg/kg	UJ
FFOR-CF-0033	FD	7/25/2014	VINYL ACETATE	1407C55	ND	0.0075	0.0075	1	mg/kg	UJ
FFOR-CF-0034	REG	7/25/2014	2-BUTANONE	1407C55	ND	0.00613	0.00613	1	mg/kg	UJ
FFOR-CF-0034	REG	7/25/2014	BROMOMETHANE	1407C55	ND	0.000613	0.00307	1	mg/kg	UJ
FFOR-CF-0034	REG	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.000613	0.00123	1	mg/kg	UJ
FFOR-CF-0034	REG	7/25/2014	VINYL ACETATE	1407C55	ND	0.00613	0.00613	1	mg/kg	UJ
FFOR-CF-0035	REG	7/25/2014	2-BUTANONE	1407C55	ND	0.00642	0.00642	1	mg/kg	UJ
FFOR-CF-0035	REG	7/25/2014	BROMOMETHANE	1407C55	ND	0.000642	0.00321	1	mg/kg	UJ
FFOR-CF-0035	REG	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.000642	0.00128	1	mg/kg	UJ
FFOR-CF-0035	REG	7/25/2014	VINYL ACETATE	1407C55	ND	0.00642	0.00642	1	mg/kg	UJ
FFOR-CF-0036	REG	7/25/2014	2-BUTANONE	1407C55	ND	0.00545	0.00545	1	mg/kg	UJ
FFOR-CF-0036	REG	7/25/2014	BROMOMETHANE	1407C55	ND	0.000545	0.00272	1	mg/kg	UJ
FFOR-CF-0036	REG	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.000545	0.00109	1	mg/kg	UJ
FFOR-CF-0036	REG	7/25/2014	VINYL ACETATE	1407C55	ND	0.00545	0.00545	1	mg/kg	UJ
FFOR-CF-0037	REG	7/25/2014	2-BUTANONE	1407C55	ND	0.00607	0.00607	1	mg/kg	UJ
FFOR-CF-0037	REG	7/25/2014	BROMOMETHANE	1407C55	ND	0.000607	0.00304	1	mg/kg	UJ
FFOR-CF-0037	REG	7/25/2014	METHYL TERT-BUTYL ETHER (MTBE)	1407C55	ND	0.000607	0.00121	1	mg/kg	UJ
FFOR-CF-0037	REG	7/25/2014	VINYL ACETATE	1407C55	ND	0.00607	0.00607	1	mg/kg	UJ
FFOR-CF-0043	REG	8/18/2014	ACETONE	1408893	0.0154	0.00788	0.00788	1	mg/kg	J-
FFOR-CF-0043	REG	8/18/2014	NAPHTHALENE	1408893	ND	0.00158	0.00158	1	mg/kg	UJ
FFOR-CF-0044	FD	8/18/2014	ACETONE	1408893	0.0202	0.008	0.008	1	mg/kg	J-
FFOR-CF-0044	FD	8/18/2014	NAPHTHALENE	1408893	ND	0.0016	0.0016	1	mg/kg	UJ
FFOR-CF-0045	REG	8/18/2014	ACETONE	1408893	0.00881	0.00824	0.00824	1	mg/kg	J-
FFOR-CF-0045	REG	8/18/2014	NAPHTHALENE	1408893	ND	0.00165	0.00165	1	mg/kg	UJ

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Confirmation Samples										
Reason Code C			**Method SW8260B**							
FFOR-CF-0046	REG	8/19/2014	ACETONE	1408994	0.0265	0.00702	0.00702	1	mg/kg	J+
FFOR-CF-0048	REG	8/20/2014	BROMOMETHANE	1408A76	ND	0.049	1	10	mg/kg	UJ
FFOR-CF-0049	REG	8/20/2014	BROMOMETHANE	1408A76	ND	0.026	0.54	5	mg/kg	UJ
FFOR-CF-0050	REG	8/20/2014	BROMOMETHANE	1408A76	ND	0.095	0.99	20	mg/kg	UJ
FFOR-CF-0051	REG	8/21/2014	BROMOMETHANE	1408B56	ND	0.1	2.1	20	mg/kg	UJ
FFOR-CF-0052	REG	8/27/2014	VINYL ACETATE	1408E34	ND	0.36	0.36	1	mg/kg	UJ
FFOR-CF-0053	REG	8/27/2014	CHLOROMETHANE	1408E34	ND	0.034	1.1	10	mg/kg	UJ
FFOR-CF-0053	REG	8/27/2014	HEXACHLOROBUTADIENE	1408E34	ND	0.054	0.74	10	mg/kg	UJ
FFOR-CF-0053	REG	8/27/2014	VINYL ACETATE	1408E34	ND	3.7	3.7	10	mg/kg	UJ
FFOR-CF-0054	REG	9/2/2014	ACETONE	1409046	0.00979	0.00721	0.00721	1	mg/kg	J+
FFOR-CF-0054	REG	9/2/2014	CHLOROMETHANE	1409046	ND	0.000721	0.00144	1	mg/kg	UJ
FFOR-CF-0055	FD	9/2/2014	ACETONE	1409046	0.0112	0.00749	0.00749	1	mg/kg	J-
FFOR-CF-0055	FD	9/2/2014	CHLOROMETHANE	1409046	ND	0.000749	0.0015	1	mg/kg	UJ
FFOR-CF-0056	REG	9/2/2014	2-BUTANONE	1409046	ND	0.017	0.36	1	mg/kg	UJ
FFOR-CF-0057	REG	9/2/2014	ACETONE	1409046	0.266	0.00725	0.00725	1	mg/kg	J+
FFOR-CF-0057	REG	9/2/2014	CHLOROMETHANE	1409046	ND	0.000725	0.00145	1	mg/kg	UJ
FFOR-CF-0058	REG	9/2/2014	ACETONE	1409046	0.124	0.00687	0.00687	1	mg/kg	J+
FFOR-CF-0058	REG	9/2/2014	CHLOROMETHANE	1409046	ND	0.000687	0.00137	1	mg/kg	UJ
FFOR-CF-0061	REG	9/3/2014	CHLOROMETHANE	1409136	ND	0.000651	0.0013	1	mg/kg	UJ
FFOR-CF-0062	REG	9/3/2014	CHLOROMETHANE	1409136	ND	0.0035	0.11	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ACETONE	1409219	0.00417	0.0037	0.0037	1	mg/kg	J-
FFOR-CF-0063	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.00037	0.00074	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ACETONE	1409219	0.00412	0.00305	0.00305	1	mg/kg	J-
FFOR-CF-0064	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.000305	0.00061	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	ACETONE	1409219	0.005	0.00362	0.00362	1	mg/kg	J-
FFOR-CF-0065	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.000362	0.000725	1	mg/kg	UJ
FFOR-CF-0066	FD	9/4/2014	ACETONE	1409219	0.00736	0.00386	0.00386	1	mg/kg	J-
FFOR-CF-0066	FD	9/4/2014	CHLOROMETHANE	1409219	ND	0.000386	0.000772	1	mg/kg	UJ
FFOR-CF-0067	REG	9/4/2014	ACETONE	1409219	0.00407	0.00382	0.00382	1	mg/kg	J-
FFOR-CF-0067	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.000382	0.000763	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ACETONE	1409219	0.00382	0.00369	0.00369	1	mg/kg	J-
FFOR-CF-0068	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.000369	0.000738	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	ACETONE	1409219	ND	0.036	0.55	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.0033	0.11	1	mg/kg	UJ
FFOR-CF-0070	REG	9/4/2014	ACETONE	1409219	0.00458	0.0036	0.0036	1	mg/kg	J-
FFOR-CF-0070	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.00036	0.00072	1	mg/kg	UJ
FFOR-CF-0071	REG	9/4/2014	ACETONE	1409219	ND	0.039	0.6	1	mg/kg	UJ

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Confirmation Samples										
Reason Code C			**Method SW8260B**							
FFOR-CF-0071	REG	9/4/2014	CHLOROMETHANE	1409219	ND	0.0037	0.12	1	mg/kg	UJ
FFOR-CF-0072	REG	9/5/2014	BROMOMETHANE	1409275	ND	0.052	1.1	10	mg/kg	UJ
FFOR-CF-0073	REG	9/5/2014	ACETONE	1409275	ND	0.00715	0.00715	1	mg/kg	UJ
FFOR-CF-0073	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000715	0.00143	1	mg/kg	UJ
FFOR-CF-0074	REG	9/5/2014	BROMOMETHANE	1409275	ND	0.052	1.1	10	mg/kg	UJ
FFOR-CF-0075	REG	9/5/2014	ACETONE	1409275	ND	0.00811	0.00811	1	mg/kg	UJ
FFOR-CF-0075	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000811	0.00162	1	mg/kg	UJ
FFOR-CF-0076	REG	9/5/2014	ACETONE	1409275	ND	0.00699	0.00699	1	mg/kg	UJ
FFOR-CF-0076	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000699	0.0014	1	mg/kg	UJ
FFOR-CF-0077	FD	9/5/2014	ACETONE	1409275	ND	0.00793	0.00793	1	mg/kg	UJ
FFOR-CF-0077	FD	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000793	0.00159	1	mg/kg	UJ
FFOR-CF-0111	REG	9/5/2014	ACETONE	1409275	ND	0.00675	0.00675	1	mg/kg	UJ
FFOR-CF-0111	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000675	0.00135	1	mg/kg	UJ
FFOR-CF-0112	REG	9/5/2014	ACETONE	1409275	0.00909	0.00754	0.00754	1	mg/kg	J-
FFOR-CF-0112	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000754	0.00151	1	mg/kg	UJ
FFOR-CF-0113	REG	9/5/2014	ACETONE	1409275	0.0122	0.00743	0.00743	1	mg/kg	J-
FFOR-CF-0113	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	ND	0.000743	0.00149	1	mg/kg	UJ
Reason Code C			**Method SW8270C**							
FFOR-CF-0009	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.071	0.53	1	mg/kg	UJ
FFOR-CF-0010	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.074	0.55	1	mg/kg	UJ
FFOR-CF-0011	FD	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.15	1.1	1	mg/kg	UJ
FFOR-CF-0012	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.073	0.55	1	mg/kg	UJ
FFOR-CF-0013	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.15	1.1	1	mg/kg	UJ
FFOR-CF-0014	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.15	1.1	1	mg/kg	UJ
FFOR-CF-0015	REG	7/1/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407066	ND	0.076	0.56	1	mg/kg	UJ
FFOR-CF-0046	REG	8/19/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408994	ND	0.071	0.53	1	mg/kg	UJ
FFOR-CF-0047	REG	8/19/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408994	ND	0.15	1.1	1	mg/kg	UJ
FFOR-CF-0048	REG	8/20/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408A76	ND	0.07	0.52	1	mg/kg	UJ
FFOR-CF-0049	REG	8/20/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408A76	ND	0.73	5.4	10	mg/kg	UJ
FFOR-CF-0050	REG	8/20/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408A76	ND	0.7	5.2	10	mg/kg	UJ
FFOR-CF-0051	REG	8/21/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408B56	ND	0.76	5.6	10	mg/kg	UJ
FFOR-CF-0052	REG	8/27/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408E34	ND	0.071	0.53	1	mg/kg	UJ
FFOR-CF-0052	REG	8/27/2014	HEXACHLOROCYCLOPENTADIENE	1408E34	ND	0.068	0.21	1	mg/kg	UJ
FFOR-CF-0053	REG	8/27/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1408E34	ND	0.072	0.53	1	mg/kg	UJ
FFOR-CF-0053	REG	8/27/2014	HEXACHLOROCYCLOPENTADIENE	1408E34	ND	0.069	0.21	1	mg/kg	UJ
FFOR-CF-0054	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.073	0.54	1	mg/kg	UJ

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Confirmation Samples										
Reason Code C			**Method SW8270C**							
FFOR-CF-0054	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.07	0.22	1	mg/kg	UJ
FFOR-CF-0055	FD	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.074	0.55	1	mg/kg	UJ
FFOR-CF-0055	FD	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.071	0.22	1	mg/kg	UJ
FFOR-CF-0056	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.071	0.53	1	mg/kg	UJ
FFOR-CF-0056	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.069	0.21	1	mg/kg	UJ
FFOR-CF-0057	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.075	0.56	1	mg/kg	UJ
FFOR-CF-0057	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.072	0.22	1	mg/kg	UJ
FFOR-CF-0058	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.071	0.52	1	mg/kg	UJ
FFOR-CF-0058	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.068	0.21	1	mg/kg	UJ
FFOR-CF-0059	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.074	0.55	1	mg/kg	UJ
FFOR-CF-0059	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.071	0.22	1	mg/kg	UJ
FFOR-CF-0060	REG	9/2/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409046	ND	0.076	0.56	1	mg/kg	UJ
FFOR-CF-0060	REG	9/2/2014	HEXACHLOROCYCLOPENTADIENE	1409046	ND	0.073	0.23	1	mg/kg	UJ
Reason Code CS			**Method SW8260B**							
FFOR-CF-0053	REG	8/27/2014	SEC-BUTYLBENZENE	1408E34	4.3	0.036	0.37	10	mg/kg	J
FFOR-CF-0074	REG	9/5/2014	SEC-BUTYLBENZENE	1409275	1.3	0.035	0.37	10	mg/kg	J
Reason Code CSTr			**Method SW8260B**							
FFOR-CF-0053	REG	8/27/2014	ACETONE	1408E34	0.89	0.36	5.5	10	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	2-BUTANONE	1409046	0.58	0.098	2.1	5	mg/kg	J
FFOR-CF-0071	REG	9/4/2014	N-BUTYLBENZENE	1409219	0.15	0.036	1.2	10	mg/kg	J
FFOR-CF-0074	REG	9/5/2014	ACETONE	1409275	4.6	0.36	5.5	10	mg/kg	J
Reason Code CTr			**Method SW8260B**							
FFOR-CF-0032	REG	7/25/2014	BROMOMETHANE	1407C55	0.000802	0.000728	0.00364	1	mg/kg	J-
FFOR-CF-0047	REG	8/19/2014	ACETONE	1408994	0.43	0.39	6	10	mg/kg	J+
FFOR-CF-0060	REG	9/2/2014	2-BUTANONE	1409046	2.4	0.19	4.2	10	mg/kg	J-
FFOR-CF-0060	REG	9/2/2014	ACETONE	1409046	4.4	0.41	6.2	10	mg/kg	J+
FFOR-CF-0072	REG	9/5/2014	ACETONE	1409275	0.76	0.36	5.5	10	mg/kg	J-
Reason Code D2M			**Method SW8015D - Extractable**							
FFOR-CF-0038	REG	7/29/2014	DIESEL RANGE ORGANICS (DRO)	1407D63	130	5.9	11	1	mg/kg	J+
Reason Code M			**Method SW6010B**							
FFOR-CF-0043	REG	8/18/2014	LEAD	1408893	12	0.13	0.29	1	mg/kg	J-
FFOR-CF-0060	REG	9/2/2014	LEAD	1409046	11	0.25	0.57	2	mg/kg	J-
Reason Code M			**Method SW8260B**							
FFOR-CF-0043	REG	8/18/2014	BENZENE	1408893	0.00262	0.000788	0.00158	1	mg/kg	J-
FFOR-CF-0043	REG	8/18/2014	TOLUENE	1408893	0.00449	0.000788	0.00158	1	mg/kg	J-
FFOR-CF-0070	REG	9/4/2014	CHLOROBENZENE	1409219	ND	0.00036	0.00072	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code M			**Method SW8270C**							
FFOR-CF-0048	REG	8/20/2014	N-NITROSODI-N-PROPYLAMINE	1408A76	ND	0.069	0.21	1	mg/kg	UJ
FFOR-CF-0060	REG	9/2/2014	N-NITROSODI-N-PROPYLAMINE	1409046	ND	0.075	0.23	1	mg/kg	UJ
Reason Code S			**Method SW8015D - Extractable**							
FFOR-CF-0041	REG	7/31/2014	DIESEL RANGE ORGANICS (DRO)	1407F02	9900	600	1100	100	mg/kg	J-
FFOR-CF-0041	REG	7/31/2014	MOTOR OIL RANGE ORGANICS (MRO)	1407F02	ND	5500	5500	100	mg/kg	UJ
FFOR-CF-0071	REG	9/4/2014	DIESEL RANGE ORGANICS (DRO)	1409219	4200	61	110	10	mg/kg	J-
FFOR-CF-0071	REG	9/4/2014	MOTOR OIL RANGE ORGANICS (MRO)	1409219	ND	560	560	10	mg/kg	UJ
Reason Code S			**Method SW8015D - Purgeable**							
FFOR-CF-0049	REG	8/20/2014	GASOLINE RANGE ORGANICS (GRO)	1408A76	1300	9.3	72	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	GASOLINE RANGE ORGANICS (GRO)	1408A76	1800	8.6	66	20	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	GASOLINE RANGE ORGANICS (GRO)	1408E34	2200	4.8	37	10	mg/kg	J+
FFOR-CF-0062	REG	9/3/2014	GASOLINE RANGE ORGANICS (GRO)	1409136	130	0.49	3.8	1	mg/kg	J+
FFOR-CF-0071	REG	9/4/2014	GASOLINE RANGE ORGANICS (GRO)	1409219	430	5.2	40	10	mg/kg	J+
Reason Code S			**Method SW8260B**							
FFOR-CF-0041	REG	7/31/2014	1,2,4-TRIMETHYLBENZENE	1407F02	24	0.039	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	1,3,5-TRIMETHYLBENZENE	1407F02	6.1	0.034	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	4-ISOPROPYLTOLUENE	1407F02	3.8	0.029	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	ETHYLBENZENE	1407F02	8	0.034	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	ISOPROPYLBENZENE	1407F02	2.5	0.025	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	NAPHTHALENE	1407F02	15	0.026	0.64	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	N-BUTYLBENZENE	1407F02	15	0.028	0.96	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	N-PROPYLBENZENE	1407F02	6.4	0.032	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	SEC-BUTYLBENZENE	1407F02	5.2	0.031	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	TOLUENE	1407F02	2.2	0.035	0.32	10	mg/kg	J+
FFOR-CF-0041	REG	7/31/2014	XYLENES, TOTAL	1407F02	15	0.094	0.64	10	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	1,2,4-TRIMETHYLBENZENE	1408A76	20	0.08	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	1,3,5-TRIMETHYLBENZENE	1408A76	6.6	0.07	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	4-ISOPROPYLTOLUENE	1408A76	5.2	0.06	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	ETHYLBENZENE	1408A76	0.47	0.071	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	NAPHTHALENE	1408A76	15	0.055	0.66	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	N-BUTYLBENZENE	1408A76	12	0.058	0.99	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	N-PROPYLBENZENE	1408A76	0.98	0.067	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	SEC-BUTYLBENZENE	1408A76	2.3	0.064	0.33	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	XYLENES, TOTAL	1408A76	3.8	0.2	0.66	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	1,2,4-TRIMETHYLBENZENE	1408B56	46	0.085	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	1,3,5-TRIMETHYLBENZENE	1408B56	12	0.074	0.7	20	mg/kg	J+

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Confirmation Samples										
Reason Code S			**Method SW8260B**							
FFOR-CF-0051	REG	8/21/2014	4-ISOPROPYLTOLUENE	1408B56	8.6	0.063	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	ETHYLBENZENE	1408B56	17	0.074	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	ISOPROPYLBENZENE	1408B56	5.8	0.055	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	NAPHTHALENE	1408B56	28	0.058	1.4	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	N-BUTYLBENZENE	1408B56	38	0.062	2.1	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	N-PROPYLBENZENE	1408B56	15	0.07	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	SEC-BUTYLBENZENE	1408B56	12	0.068	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	XYLENES, TOTAL	1408B56	24	0.21	1.4	20	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	1,2,4-TRIMETHYLBENZENE	1408E34	30	0.045	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	1,3,5-TRIMETHYLBENZENE	1408E34	12	0.039	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	4-ISOPROPYLTOLUENE	1408E34	3.3	0.033	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	ETHYLBENZENE	1408E34	4.2	0.039	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	ISOPROPYLBENZENE	1408E34	2.6	0.029	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	NAPHTHALENE	1408E34	6.9	0.031	0.74	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	N-BUTYLBENZENE	1408E34	9.7	0.032	1.1	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	N-PROPYLBENZENE	1408E34	6.9	0.037	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	TOLUENE	1408E34	1	0.041	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	XYLENES, TOTAL	1408E34	27	0.11	0.74	10	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	1,2,4-TRIMETHYLBENZENE	1409046	12	0.026	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	1,3,5-TRIMETHYLBENZENE	1409046	3.7	0.023	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	4-ISOPROPYLTOLUENE	1409046	2.3	0.019	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	ETHYLBENZENE	1409046	0.23	0.023	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	ISOPROPYLBENZENE	1409046	0.29	0.017	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	NAPHTHALENE	1409046	12	0.018	0.43	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	N-BUTYLBENZENE	1409046	7.7	0.019	0.64	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	N-PROPYLBENZENE	1409046	0.94	0.022	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	SEC-BUTYLBENZENE	1409046	2.2	0.021	0.21	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	XYLENES, TOTAL	1409046	0.58	0.063	0.43	5	mg/kg	J+
FFOR-CF-0062	REG	9/3/2014	1,3,5-TRIMETHYLBENZENE	1409136	0.36	0.004	0.038	1	mg/kg	J+
FFOR-CF-0062	REG	9/3/2014	NAPHTHALENE	1409136	0.27	0.0031	0.076	1	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	1,2,4-TRIMETHYLBENZENE	1409275	17	0.044	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	1,3,5-TRIMETHYLBENZENE	1409275	8.8	0.039	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	4-ISOPROPYLTOLUENE	1409275	1.6	0.033	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	ETHYLBENZENE	1409275	5	0.039	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	ISOPROPYLBENZENE	1409275	2.3	0.029	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	NAPHTHALENE	1409275	2.4	0.03	0.73	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	N-BUTYLBENZENE	1409275	1.5	0.032	1.1	10	mg/kg	J+

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Confirmation Samples										
Reason Code S			**Method SW8260B**							
FFOR-CF-0074	REG	9/5/2014	N-PROPYLBENZENE	1409275	3.4	0.037	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	TOLUENE	1409275	0.6	0.04	0.37	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	XYLENES, TOTAL	1409275	46	0.11	0.73	10	mg/kg	J+
Reason Code S			**Method SW8270C**							
FFOR-CF-0002	REG	6/30/2014	1,2,4-TRICHLOROBENZENE	1406D88	ND	0.62	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	1,2-DICHLOROBENZENE	1406D88	ND	0.42	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	1,3-DICHLOROBENZENE	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	1,4-DICHLOROBENZENE	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4,5-TRICHLOROPHENOL	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4,6-TRICHLOROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4-DICHLOROPHENOL	1406D88	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4-DIMETHYLPHENOL	1406D88	ND	0.64	1.6	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4-DINITROPHENOL	1406D88	ND	0.76	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,4-DINITROTOLUENE	1406D88	ND	0.79	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2,6-DINITROTOLUENE	1406D88	ND	0.64	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-CHLORONAPHTHALENE	1406D88	ND	0.61	1.3	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-CHLOROPHENOL	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-METHYLNAPHTHALENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-METHYLPHENOL	1406D88	ND	0.61	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-NITROANILINE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	2-NITROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	3,3'-DICHLOROBENZIDINE	1406D88	ND	0.59	1.3	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	3-Methylphenol and 4-methylphenol	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	3-NITROANILINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4,6-DINITRO-2-METHYLPHENOL	1406D88	ND	0.44	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-BROMOPHENYL PHENYL ETHER	1406D88	ND	0.54	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-CHLORO-3-METHYLPHENOL	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-CHLOROANILINE	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-CHLOROPHENYL PHENYL ETHER	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-NITROANILINE	1406D88	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	4-NITROPHENOL	1406D88	ND	0.66	1.3	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	ACENAPHTHENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	ACENAPHTHYLENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	ANILINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	ANTHRACENE	1406D88	2.2	0.46	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	BENZ(A)ANTHRACENE	1406D88	9.8	0.58	1.1	1	mg/kg	J-

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Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0002	REG	6/30/2014	BENZO(A)PYRENE	1406D88	9.9	0.65	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	BENZO(B)FLUORANTHENE	1406D88	12	0.74	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	BENZO(G,H,I)PERYLENE	1406D88	4.4	0.65	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	BENZO(K)FLUORANTHENE	1406D88	6.3	0.82	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	BIS(2-CHLOROETHOXY)METHANE	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	BIS(2-CHLOROETHYL)ETHER	1406D88	ND	0.86	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	BIS(2-CHLOROISOPROPYL)ETHER	1406D88	ND	0.4	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1406D88	ND	0.72	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	BUTYL BENZYL PHTHALATE	1406D88	ND	0.46	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	CARBAZOLE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	CHRYSENE	1406D88	14	0.55	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	DIBENZ(A,H)ANTHRACENE	1406D88	1.6	0.64	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	DIBENZOFURAN	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	DIETHYL PHTHALATE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	DIMETHYL PHTHALATE	1406D88	ND	0.6	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	DI-N-BUTYL PHTHALATE	1406D88	ND	0.48	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	DI-N-OCTYL PHTHALATE	1406D88	ND	2.7	3.2	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	FLUORANTHENE	1406D88	19	0.48	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	FLUORENE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	HEXACHLOROBENZENE	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	HEXACHLOROBUTADIENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	HEXACHLOROCYCLOPENTADIENE	1406D88	ND	0.69	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	HEXACHLOROETHANE	1406D88	ND	0.75	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	INDENO(1,2,3-CD)PYRENE	1406D88	4.8	0.71	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	ISOPHORONE	1406D88	ND	0.7	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	NAPHTHALENE	1406D88	ND	0.51	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	NITROBENZENE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	N-NITROSODIMETHYLAMINE	1406D88	ND	0.81	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	N-NITROSODI-N-PROPYLAMINE	1406D88	ND	0.71	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	N-NITROSODIPHENYLAMINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	PENTACHLOROPHENOL	1406D88	ND	0.87	2.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	PHENANTHRENE	1406D88	5.8	0.39	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	PHENOL	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0002	REG	6/30/2014	PYRENE	1406D88	18	0.58	1.1	1	mg/kg	J-
FFOR-CF-0002	REG	6/30/2014	PYRIDINE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	1,2,4-TRICHLOROBENZENE	1406D88	ND	0.62	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	1,2-DICHLOROBENZENE	1406D88	ND	0.42	1.1	1	mg/kg	UJ

Appendix G - Table 3
Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0005	REG	6/30/2014	1,3-DICHLOROBENZENE	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	1,4-DICHLOROBENZENE	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4,5-TRICHLOROPHENOL	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4,6-TRICHLOROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4-DICHLOROPHENOL	1406D88	ND	0.66	2.2	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4-DIMETHYLPHENOL	1406D88	ND	0.64	1.6	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4-DINITROPHENOL	1406D88	ND	0.76	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,4-DINITROTOLUENE	1406D88	ND	0.79	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2,6-DINITROTOLUENE	1406D88	ND	0.64	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-CHLORONAPHTHALENE	1406D88	ND	0.62	1.3	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-CHLOROPHENOL	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-METHYLNAPHTHALENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-METHYLPHENOL	1406D88	ND	0.62	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-NITROANILINE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	2-NITROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	3,3'-DICHLOROBENZIDINE	1406D88	ND	0.6	1.3	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	3-Methylphenol and 4-methylphenol	1406D88	ND	0.73	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	3-NITROANILINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4,6-DINITRO-2-METHYLPHENOL	1406D88	ND	0.44	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-BROMOPHENYL PHENYL ETHER	1406D88	ND	0.54	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-CHLORO-3-METHYLPHENOL	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-CHLOROANILINE	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-CHLOROPHENYL PHENYL ETHER	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-NITROANILINE	1406D88	ND	0.52	2.2	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	4-NITROPHENOL	1406D88	ND	0.66	1.3	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	ACENAPHTHENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	ACENAPHTHYLENE	1406D88	ND	0.53	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	ANILINE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	ANTHRACENE	1406D88	ND	0.47	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BENZ(A)ANTHRACENE	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BENZO(A)PYRENE	1406D88	ND	0.65	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BENZO(B)FLUORANTHENE	1406D88	ND	0.74	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BENZO(G,H,I)PERYLENE	1406D88	ND	0.65	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BENZO(K)FLUORANTHENE	1406D88	ND	0.82	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BIS(2-CHLOROETHOXY)METHANE	1406D88	ND	0.73	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BIS(2-CHLOROETHYL)ETHER	1406D88	ND	0.86	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BIS(2-CHLOROISOPROPYL)ETHER	1406D88	ND	0.4	1.1	1	mg/kg	UJ

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Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0005	REG	6/30/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1406D88	ND	0.73	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	BUTYL BENZYL PHTHALATE	1406D88	ND	0.46	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	CARBAZOLE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	CHRYSENE	1406D88	ND	0.55	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DIBENZ(A,H)ANTHRACENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DIBENZOFURAN	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DIETHYL PHTHALATE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DIMETHYL PHTHALATE	1406D88	ND	0.6	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DI-N-BUTYL PHTHALATE	1406D88	ND	0.48	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	DI-N-OCTYL PHTHALATE	1406D88	ND	2.7	3.2	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	FLUORANTHENE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	FLUORENE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	HEXACHLOROBENZENE	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	HEXACHLOROBUTADIENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	HEXACHLOROCYCLOPENTADIENE	1406D88	ND	0.7	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	HEXACHLOROETHANE	1406D88	ND	0.76	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	INDENO(1,2,3-CD)PYRENE	1406D88	ND	0.71	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	ISOPHORONE	1406D88	ND	0.71	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	NAPHTHALENE	1406D88	ND	0.51	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	NITROBENZENE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	N-NITROSODIMETHYLAMINE	1406D88	ND	0.81	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	N-NITROSODI-N-PROPYLAMINE	1406D88	ND	0.71	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	N-NITROSODIPHENYLAMINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	PENTACHLOROPHENOL	1406D88	ND	0.87	2.2	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	PHENANTHRENE	1406D88	ND	0.39	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	PHENOL	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	PYRENE	1406D88	ND	0.58	1.1	1	mg/kg	UJ
FFOR-CF-0005	REG	6/30/2014	PYRIDINE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	1,2,4-TRICHLOROBENZENE	1406D88	ND	0.62	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	1,2-DICHLOROBENZENE	1406D88	ND	0.42	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	1,3-DICHLOROBENZENE	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	1,4-DICHLOROBENZENE	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,4,5-TRICHLOROPHENOL	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,4,6-TRICHLOROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,4-DICHLOROPHENOL	1406D88	ND	0.66	2.2	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,4-DIMETHYLPHENOL	1406D88	ND	0.64	1.6	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,4-DINITROPHENOL	1406D88	ND	0.76	2.7	1	mg/kg	UJ

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Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0006	REG	6/30/2014	2,4-DINITROTOLUENE	1406D88	ND	0.79	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2,6-DINITROTOLUENE	1406D88	ND	0.64	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-CHLORONAPHTHALENE	1406D88	ND	0.61	1.3	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-CHLOROPHENOL	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-METHYLNAPHTHALENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-METHYLPHENOL	1406D88	ND	0.62	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-NITROANILINE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	2-NITROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	3,3'-DICHLOROBENZIDINE	1406D88	ND	0.6	1.3	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	3-Methylphenol and 4-methylphenol	1406D88	ND	0.73	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	3-NITROANILINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4,6-DINITRO-2-METHYLPHENOL	1406D88	ND	0.44	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-BROMOPHENYL PHENYL ETHER	1406D88	ND	0.54	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-CHLORO-3-METHYLPHENOL	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-CHLOROANILINE	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-CHLOROPHENYL PHENYL ETHER	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-NITROANILINE	1406D88	ND	0.52	2.2	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	4-NITROPHENOL	1406D88	ND	0.66	1.3	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	ACENAPHTHENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	ACENAPHTHYLENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	ANILINE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	ANTHRACENE	1406D88	1.9	0.47	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BENZ(A)ANTHRACENE	1406D88	11	0.58	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BENZO(A)PYRENE	1406D88	13	0.65	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BENZO(B)FLUORANTHENE	1406D88	16	0.74	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BENZO(G,H,I)PERYLENE	1406D88	5.5	0.65	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BENZO(K)FLUORANTHENE	1406D88	7	0.82	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	BIS(2-CHLOROETHOXY)METHANE	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	BIS(2-CHLOROETHYL)ETHER	1406D88	ND	0.86	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	BIS(2-CHLOROISOPROPYL)ETHER	1406D88	ND	0.4	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1406D88	ND	0.72	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	BUTYL BENZYL PHTHALATE	1406D88	ND	0.46	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	CHRYSENE	1406D88	17	0.55	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	DIBENZ(A,H)ANTHRACENE	1406D88	1.9	0.64	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	DIBENZOFURAN	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	DIETHYL PHTHALATE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	DIMETHYL PHTHALATE	1406D88	ND	0.6	1.1	1	mg/kg	UJ

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Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0006	REG	6/30/2014	DI-N-BUTYL PHTHALATE	1406D88	ND	0.48	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	DI-N-OCTYL PHTHALATE	1406D88	ND	2.7	3.2	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	FLUORANTHENE	1406D88	18	0.48	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	FLUORENE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	HEXACHLOROBENZENE	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	HEXACHLOROBUTADIENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	HEXACHLOROCYCLOPENTADIENE	1406D88	ND	0.7	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	HEXACHLOROETHANE	1406D88	ND	0.75	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	INDENO(1,2,3-CD)PYRENE	1406D88	5.9	0.71	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	ISOPHORONE	1406D88	ND	0.71	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	NAPHTHALENE	1406D88	ND	0.51	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	NITROBENZENE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	N-NITROSODIMETHYLAMINE	1406D88	ND	0.81	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	N-NITROSODI-N-PROPYLAMINE	1406D88	ND	0.71	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	N-NITROSODIPHENYLAMINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	PENTACHLOROPHENOL	1406D88	ND	0.87	2.2	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	PHENANTHRENE	1406D88	2.1	0.39	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	PHENOL	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0006	REG	6/30/2014	PYRENE	1406D88	16	0.58	1.1	1	mg/kg	J-
FFOR-CF-0006	REG	6/30/2014	PYRIDINE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	1,2,4-TRICHLOROBENZENE	1406D88	ND	0.62	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	1,2-DICHLOROBENZENE	1406D88	ND	0.42	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	1,3-DICHLOROBENZENE	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	1,4-DICHLOROBENZENE	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4,5-TRICHLOROPHENOL	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4,6-TRICHLOROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4-DICHLOROPHENOL	1406D88	ND	0.66	2.2	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4-DIMETHYLPHENOL	1406D88	ND	0.64	1.6	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4-DINITROPHENOL	1406D88	ND	0.76	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,4-DINITROTOLUENE	1406D88	ND	0.8	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2,6-DINITROTOLUENE	1406D88	ND	0.64	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-CHLORONAPHTHALENE	1406D88	ND	0.62	1.3	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-CHLOROPHENOL	1406D88	ND	0.67	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-METHYLNAPHTHALENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-METHYLPHENOL	1406D88	ND	0.62	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-NITROANILINE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	2-NITROPHENOL	1406D88	ND	0.59	1.1	1	mg/kg	UJ

Appendix G - Table 3
Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0007	REG	6/30/2014	3,3'-DICHLOROBENZIDINE	1406D88	ND	0.6	1.3	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	3-Methylphenol and 4-methylphenol	1406D88	ND	0.73	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	3-NITROANILINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4,6-DINITRO-2-METHYLPHENOL	1406D88	ND	0.44	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-BROMOPHENYL PHENYL ETHER	1406D88	ND	0.54	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-CHLORO-3-METHYLPHENOL	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-CHLOROANILINE	1406D88	ND	0.57	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-CHLOROPHENYL PHENYL ETHER	1406D88	ND	0.61	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-NITROANILINE	1406D88	ND	0.52	2.2	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	4-NITROPHENOL	1406D88	ND	0.66	1.3	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	ACENAPHTHENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	ACENAPHTHYLENE	1406D88	ND	0.53	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	ANILINE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	ANTHRACENE	1406D88	ND	0.47	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BENZ(A)ANTHRACENE	1406D88	1.2	0.59	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	BENZO(A)PYRENE	1406D88	ND	0.65	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BENZO(B)FLUORANTHENE	1406D88	1.3	0.74	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	BUTYL BENZYL PHTHALATE	1406D88	ND	0.46	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	CARBAZOLE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DIBENZ(A,H)ANTHRACENE	1406D88	ND	0.64	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DIBENZOFURAN	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DIETHYL PHTHALATE	1406D88	ND	0.48	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DIMETHYL PHTHALATE	1406D88	ND	0.6	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DI-N-BUTYL PHTHALATE	1406D88	ND	0.49	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	DI-N-OCTYL PHTHALATE	1406D88	ND	2.7	3.2	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	FLUORENE	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	HEXACHLOROBENZENE	1406D88	ND	0.59	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	HEXACHLOROBUTADIENE	1406D88	ND	0.52	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	HEXACHLOROCYCLOPENTADIENE	1406D88	ND	0.7	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	HEXACHLOROETHANE	1406D88	ND	0.76	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	INDENO(1,2,3-CD)PYRENE	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	ISOPHORONE	1406D88	ND	0.71	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	NAPHTHALENE	1406D88	ND	0.51	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	NITROBENZENE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	N-NITROSODIMETHYLAMINE	1406D88	ND	0.82	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	N-NITROSODI-N-PROPYLAMINE	1406D88	ND	0.72	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	N-NITROSODIPHENYLAMINE	1406D88	ND	0.63	1.1	1	mg/kg	UJ

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FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0007	REG	6/30/2014	PENTACHLOROPHENOL	1406D88	ND	0.88	2.2	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	PHENANTHRENE	1406D88	ND	0.39	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	PHENOL	1406D88	ND	0.63	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	PYRIDINE	1406D88	ND	0.6	2.7	1	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	1,2,4-TRICHLOROBENZENE	1407F02	ND	0.63	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	1,2-DICHLOROBENZENE	1407F02	ND	0.43	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	1,3-DICHLOROBENZENE	1407F02	ND	0.62	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	1,4-DICHLOROBENZENE	1407F02	ND	0.68	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4,5-TRICHLOROPHENOL	1407F02	ND	0.49	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4,6-TRICHLOROPHENOL	1407F02	ND	0.6	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4-DICHLOROPHENOL	1407F02	ND	0.67	4.4	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4-DIMETHYLPHENOL	1407F02	ND	0.65	3.3	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4-DINITROPHENOL	1407F02	ND	0.77	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,4-DINITROTOLUENE	1407F02	ND	0.81	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2,6-DINITROTOLUENE	1407F02	ND	0.65	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2-CHLORONAPHTHALENE	1407F02	ND	0.63	2.7	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2-CHLOROPHENOL	1407F02	ND	0.68	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2-METHYLNAPHTHALENE	1407F02	22	0.65	2.2	5	mg/kg	J-
FFOR-CF-0041	REG	7/31/2014	2-METHYLPHENOL	1407F02	ND	0.63	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2-NITROANILINE	1407F02	ND	0.53	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	2-NITROPHENOL	1407F02	ND	0.6	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	3,3'-DICHLOROBENZIDINE	1407F02	ND	0.61	2.7	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	3-Methylphenol and 4-methylphenol	1407F02	ND	0.74	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	3-NITROANILINE	1407F02	ND	0.64	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4,6-DINITRO-2-METHYLPHENOL	1407F02	ND	0.45	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-BROMOPHENYL PHENYL ETHER	1407F02	ND	0.55	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-CHLORO-3-METHYLPHENOL	1407F02	ND	0.58	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-CHLOROANILINE	1407F02	ND	0.58	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-CHLOROPHENYL PHENYL ETHER	1407F02	ND	0.62	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-NITROANILINE	1407F02	ND	0.53	4.4	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	4-NITROPHENOL	1407F02	ND	0.67	2.7	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	ACENAPHTHENE	1407F02	ND	0.53	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	ACENAPHTHYLENE	1407F02	ND	0.53	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	ANILINE	1407F02	ND	0.65	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	ANTHRACENE	1407F02	ND	0.47	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BENZO(A)PYRENE	1407F02	ND	0.66	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BENZO(B)FLUORANTHENE	1407F02	ND	0.75	2.2	5	mg/kg	UJ

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Qualified Data Summary
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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0041	REG	7/31/2014	BENZO(G,H,I)PERYLENE	1407F02	ND	0.66	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BENZO(K)FLUORANTHENE	1407F02	ND	0.83	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BIS(2-CHLOROETHOXY)METHANE	1407F02	ND	0.74	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BIS(2-CHLOROETHYL)ETHER	1407F02	ND	0.88	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BIS(2-CHLOROISOPROPYL)ETHER	1407F02	ND	0.41	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1407F02	ND	0.74	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	BUTYL BENZYL PHTHALATE	1407F02	ND	0.47	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	CARBAZOLE	1407F02	ND	0.49	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	CHRYSENE	1407F02	ND	0.56	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DIBENZ(A,H)ANTHRACENE	1407F02	ND	0.65	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DIBENZOFURAN	1407F02	ND	0.73	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DIETHYL PHTHALATE	1407F02	ND	0.49	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DIMETHYL PHTHALATE	1407F02	ND	0.61	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DI-N-BUTYL PHTHALATE	1407F02	ND	0.49	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	DI-N-OCTYL PHTHALATE	1407F02	ND	2.7	4.4	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	FLUORANTHENE	1407F02	ND	0.49	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	FLUORENE	1407F02	ND	0.64	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	HEXACHLOROBENZENE	1407F02	ND	0.6	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	HEXACHLOROBUTADIENE	1407F02	ND	0.53	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	HEXACHLOROCYCLOPENTADIENE	1407F02	ND	0.71	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	HEXACHLOROETHANE	1407F02	ND	0.77	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	INDENO(1,2,3-CD)PYRENE	1407F02	ND	0.73	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	ISOPHORONE	1407F02	ND	0.72	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	NAPHTHALENE	1407F02	13	0.52	2.2	5	mg/kg	J-
FFOR-CF-0041	REG	7/31/2014	NITROBENZENE	1407F02	ND	0.61	5.5	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	N-NITROSODIMETHYLAMINE	1407F02	ND	0.83	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	N-NITROSODI-N-PROPYLAMINE	1407F02	ND	0.73	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	N-NITROSODIPHENYLAMINE	1407F02	ND	0.64	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	PENTACHLOROPHENOL	1407F02	ND	0.89	4.4	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	PHENANTHRENE	1407F02	ND	0.4	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	PHENOL	1407F02	ND	0.64	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	PYRENE	1407F02	ND	0.59	2.2	5	mg/kg	UJ
FFOR-CF-0041	REG	7/31/2014	PYRIDINE	1407F02	ND	0.61	5.5	5	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	1,2,4-TRICHLOROBENZENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	1,2-DICHLOROBENZENE	1409219	ND	0.42	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	1,3-DICHLOROBENZENE	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	1,4-DICHLOROBENZENE	1409219	ND	0.67	2.1	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0063	REG	9/4/2014	2,4,5-TRICHLOROPHENOL	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,4,6-TRICHLOROPHENOL	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,4-DICHLOROPHENOL	1409219	ND	0.66	4.3	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,4-DIMETHYLPHENOL	1409219	ND	0.64	3.2	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,4-DINITROPHENOL	1409219	ND	0.76	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,4-DINITROTOLUENE	1409219	ND	0.79	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2,6-DINITROTOLUENE	1409219	ND	0.64	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-CHLORONAPHTHALENE	1409219	ND	0.61	2.7	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-CHLOROPHENOL	1409219	ND	0.67	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-METHYLNAPHTHALENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-METHYLPHENOL	1409219	ND	0.61	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-NITROANILINE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	2-NITROPHENOL	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	3,3'-DICHLOROBENZIDINE	1409219	ND	0.59	2.7	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	3-Methylphenol and 4-methylphenol	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	3-NITROANILINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4,6-DINITRO-2-METHYLPHENOL	1409219	ND	0.44	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-BROMOPHENYL PHENYL ETHER	1409219	ND	0.54	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-CHLORO-3-METHYLPHENOL	1409219	ND	0.57	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-CHLOROANILINE	1409219	ND	0.57	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-CHLOROPHENYL PHENYL ETHER	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-NITROANILINE	1409219	ND	0.52	4.3	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	4-NITROPHENOL	1409219	ND	0.66	2.7	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ACENAPHTHENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ACENAPHTHYLENE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ANILINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ANTHRACENE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BENZ(A)ANTHRACENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BENZO(A)PYRENE	1409219	ND	0.65	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BENZO(B)FLUORANTHENE	1409219	ND	0.74	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BENZO(G,H,I)PERYLENE	1409219	ND	0.65	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BENZO(K)FLUORANTHENE	1409219	ND	0.82	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BIS(2-CHLOROETHOXY)METHANE	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BIS(2-CHLOROETHYL)ETHER	1409219	ND	0.86	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BIS(2-CHLOROISOPROPYL)ETHER	1409219	ND	0.4	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409219	ND	0.72	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	BUTYL BENZYL PHTHALATE	1409219	ND	0.46	2.1	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S		**Method SW8270C**								
FFOR-CF-0063	REG	9/4/2014	CARBAZOLE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	CHRYSENE	1409219	ND	0.55	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DIBENZ(A,H)ANTHRACENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DIBENZOFURAN	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DIETHYL PHTHALATE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DIMETHYL PHTHALATE	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.48	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	DI-N-OCTYL PHTHALATE	1409219	ND	2.7	4.3	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	FLUORANTHENE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	FLUORENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	HEXACHLOROBENZENE	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	HEXACHLOROBUTADIENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	HEXACHLOROCYCLOPENTADIENE	1409219	ND	0.69	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	HEXACHLOROETHANE	1409219	ND	0.75	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	INDENO(1,2,3-CD)PYRENE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	ISOPHORONE	1409219	ND	0.7	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	NAPHTHALENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	NITROBENZENE	1409219	ND	0.6	5.4	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	N-NITROSODIMETHYLAMINE	1409219	ND	0.81	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	N-NITROSODI-N-PROPYLAMINE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	N-NITROSODIPHENYLAMINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	PENTACHLOROPHENOL	1409219	ND	0.87	4.3	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	PHENANTHRENE	1409219	ND	0.39	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	PHENOL	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	PYRENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0063	REG	9/4/2014	PYRIDINE	1409219	ND	0.59	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	1,2,4-TRICHLOROBENZENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	1,2-DICHLOROBENZENE	1409219	ND	0.42	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	1,3-DICHLOROBENZENE	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	1,4-DICHLOROBENZENE	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4,5-TRICHLOROPHENOL	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4,6-TRICHLOROPHENOL	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4-DICHLOROPHENOL	1409219	ND	0.66	4.3	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4-DIMETHYLPHENOL	1409219	ND	0.64	3.2	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4-DINITROPHENOL	1409219	ND	0.75	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,4-DINITROTOLUENE	1409219	ND	0.79	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2,6-DINITROTOLUENE	1409219	ND	0.63	5.4	1	mg/kg	UJ

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Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0064	REG	9/4/2014	2-CHLORONAPHTHALENE	1409219	ND	0.61	2.7	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2-CHLOROPHENOL	1409219	ND	0.67	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2-METHYLNAPHTHALENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2-METHYLPHENOL	1409219	ND	0.61	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2-NITROANILINE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	2-NITROPHENOL	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	3,3'-DICHLOROBENZIDINE	1409219	ND	0.59	2.7	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	3-Methylphenol and 4-methylphenol	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	3-NITROANILINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4,6-DINITRO-2-METHYLPHENOL	1409219	ND	0.44	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-BROMOPHENYL PHENYL ETHER	1409219	ND	0.54	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-CHLORO-3-METHYLPHENOL	1409219	ND	0.57	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-CHLOROANILINE	1409219	ND	0.57	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-CHLOROPHENYL PHENYL ETHER	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-NITROANILINE	1409219	ND	0.51	4.3	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	4-NITROPHENOL	1409219	ND	0.66	2.7	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ACENAPHTHENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ACENAPHTHYLENE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ANILINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ANTHRACENE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BENZ(A)ANTHRACENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BENZO(A)PYRENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BENZO(B)FLUORANTHENE	1409219	ND	0.73	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BENZO(G,H,I)PERYLENE	1409219	ND	0.65	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BENZO(K)FLUORANTHENE	1409219	ND	0.81	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BIS(2-CHLOROETHOXY)METHANE	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BIS(2-CHLOROETHYL)ETHER	1409219	ND	0.86	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BIS(2-CHLOROISOPROPYL)ETHER	1409219	ND	0.4	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409219	ND	0.72	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	BUTYL BENZYL PHTHALATE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	CARBAZOLE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	CHRYSENE	1409219	ND	0.54	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	DIBENZ(A,H)ANTHRACENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	DIBENZOFURAN	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	DIETHYL PHTHALATE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	DIMETHYL PHTHALATE	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.48	5.4	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0064	REG	9/4/2014	DI-N-OCTYL PHTHALATE	1409219	ND	2.7	4.3	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	FLUORANTHENE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	FLUORENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	HEXACHLOROBENZENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	HEXACHLOROBUTADIENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	HEXACHLOROCYCLOPENTADIENE	1409219	ND	0.69	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	HEXACHLOROETHANE	1409219	ND	0.75	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	INDENO(1,2,3-CD)PYRENE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	ISOPHORONE	1409219	ND	0.7	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	NAPHTHALENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	NITROBENZENE	1409219	ND	0.6	5.4	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	N-NITROSODIMETHYLAMINE	1409219	ND	0.81	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	N-NITROSODI-N-PROPYLAMINE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	N-NITROSODIPHENYLAMINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	PENTACHLOROPHENOL	1409219	ND	0.87	4.3	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	PHENANTHRENE	1409219	ND	0.39	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	PHENOL	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	PYRENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0064	REG	9/4/2014	PYRIDINE	1409219	ND	0.59	5.4	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	1,2,4-TRICHLOROBENZENE	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	1,2-DICHLOROBENZENE	1409219	ND	0.41	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	1,3-DICHLOROBENZENE	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	1,4-DICHLOROBENZENE	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4,5-TRICHLOROPHENOL	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4,6-TRICHLOROPHENOL	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4-DICHLOROPHENOL	1409219	ND	0.65	4.2	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4-DIMETHYLPHENOL	1409219	ND	0.63	3.2	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4-DINITROPHENOL	1409219	ND	0.75	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,4-DINITROTOLUENE	1409219	ND	0.78	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2,6-DINITROTOLUENE	1409219	ND	0.63	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-CHLORONAPHTHALENE	1409219	ND	0.61	2.6	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-CHLOROPHENOL	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-METHYLNAPHTHALENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-METHYLPHENOL	1409219	ND	0.61	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-NITROANILINE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	2-NITROPHENOL	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	3,3'-DICHLOROBENZIDINE	1409219	ND	0.59	2.6	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0065	REG	9/4/2014	3-Methylphenol and 4-methylphenol	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	3-NITROANILINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4,6-DINITRO-2-METHYLPHENOL	1409219	ND	0.43	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-BROMOPHENYL PHENYL ETHER	1409219	ND	0.53	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-CHLORO-3-METHYLPHENOL	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-CHLOROANILINE	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-CHLOROPHENYL PHENYL ETHER	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-NITROANILINE	1409219	ND	0.51	4.2	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	4-NITROPHENOL	1409219	ND	0.65	2.6	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	ACENAPHTHENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	ACENAPHTHYLENE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	ANILINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	ANTHRACENE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BENZ(A)ANTHRACENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BENZO(A)PYRENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BENZO(B)FLUORANTHENE	1409219	ND	0.73	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BENZO(G,H,I)PERYLENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BENZO(K)FLUORANTHENE	1409219	ND	0.81	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BIS(2-CHLOROETHOXY)METHANE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BIS(2-CHLOROETHYL)ETHER	1409219	ND	0.85	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BIS(2-CHLOROISOPROPYL)ETHER	1409219	ND	0.39	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409219	ND	0.71	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	BUTYL BENZYL PHTHALATE	1409219	ND	0.45	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	CARBAZOLE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DIBENZ(A,H)ANTHRACENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DIBENZOFURAN	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DIETHYL PHTHALATE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DIMETHYL PHTHALATE	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.48	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	DI-N-OCTYL PHTHALATE	1409219	ND	2.7	4.2	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	FLUORANTHENE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	FLUORENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	HEXACHLOROBENZENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	HEXACHLOROBUTADIENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	HEXACHLOROCYCLOPENTADIENE	1409219	ND	0.69	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	HEXACHLOROETHANE	1409219	ND	0.74	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	INDENO(1,2,3-CD)PYRENE	1409219	ND	0.7	2.1	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0065	REG	9/4/2014	ISOPHORONE	1409219	ND	0.7	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	NAPHTHALENE	1409219	ND	0.5	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	NITROBENZENE	1409219	ND	0.59	5.3	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	N-NITROSODIMETHYLAMINE	1409219	ND	0.8	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	N-NITROSODI-N-PROPYLAMINE	1409219	ND	0.7	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	N-NITROSODIPHENYLAMINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	PENTACHLOROPHENOL	1409219	ND	0.86	4.2	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	PHENANTHRENE	1409219	ND	0.38	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	PHENOL	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	PYRENE	1409219	ND	0.57	2.1	1	mg/kg	UJ
FFOR-CF-0065	REG	9/4/2014	PYRIDINE	1409219	ND	0.59	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	1,2,4-TRICHLOROBENZENE	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	1,2-DICHLOROBENZENE	1409219	ND	0.41	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	1,3-DICHLOROBENZENE	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	1,4-DICHLOROBENZENE	1409219	ND	0.65	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4,5-TRICHLOROPHENOL	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4,6-TRICHLOROPHENOL	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4-DICHLOROPHENOL	1409219	ND	0.65	4.2	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4-DIMETHYLPHENOL	1409219	ND	0.63	3.2	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4-DINITROPHENOL	1409219	ND	0.74	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,4-DINITROTOLUENE	1409219	ND	0.78	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2,6-DINITROTOLUENE	1409219	ND	0.63	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-CHLORONAPHTHALENE	1409219	ND	0.6	2.6	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-CHLOROPHENOL	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-METHYLNAPHTHALENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-METHYLPHENOL	1409219	ND	0.6	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-NITROANILINE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	2-NITROPHENOL	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	3,3'-DICHLOROBENZIDINE	1409219	ND	0.58	2.6	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	3-Methylphenol and 4-methylphenol	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	3-NITROANILINE	1409219	ND	0.61	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4,6-DINITRO-2-METHYLPHENOL	1409219	ND	0.43	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4-BROMOPHENYL PHENYL ETHER	1409219	ND	0.53	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4-CHLORO-3-METHYLPHENOL	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4-CHLOROANILINE	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4-CHLOROPHENYL PHENYL ETHER	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	4-NITROANILINE	1409219	ND	0.51	4.2	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0068	REG	9/4/2014	4-NITROPHENOL	1409219	ND	0.65	2.6	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ACENAPHTHENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ACENAPHTHYLENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ANILINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ANTHRACENE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BENZ(A)ANTHRACENE	1409219	ND	0.57	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BENZO(A)PYRENE	1409219	ND	0.64	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BENZO(B)FLUORANTHENE	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BENZO(K)FLUORANTHENE	1409219	ND	0.8	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BIS(2-CHLOROETHOXY)METHANE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BIS(2-CHLOROETHYL)ETHER	1409219	ND	0.85	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BIS(2-CHLOROISOPROPYL)ETHER	1409219	ND	0.39	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409219	ND	0.71	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	BUTYL BENZYL PHTHALATE	1409219	ND	0.45	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	CARBAZOLE	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	CHRYSENE	1409219	ND	0.54	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DIBENZ(A,H)ANTHRACENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DIBENZOFURAN	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DIETHYL PHTHALATE	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DIMETHYL PHTHALATE	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.47	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	DI-N-OCTYL PHTHALATE	1409219	ND	2.6	4.2	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	FLUORANTHENE	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	FLUORENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	HEXACHLOROBENZENE	1409219	ND	0.57	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	HEXACHLOROBUTADIENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	HEXACHLOROCYCLOPENTADIENE	1409219	ND	0.68	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	HEXACHLOROETHANE	1409219	ND	0.74	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	INDENO(1,2,3-CD)PYRENE	1409219	ND	0.7	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	ISOPHORONE	1409219	ND	0.69	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	NAPHTHALENE	1409219	ND	0.5	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	NITROBENZENE	1409219	ND	0.59	5.3	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	N-NITROSODIMETHYLAMINE	1409219	ND	0.8	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	N-NITROSODI-N-PROPYLAMINE	1409219	ND	0.7	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	N-NITROSODIPHENYLAMINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	PENTACHLOROPHENOL	1409219	ND	0.85	4.2	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	PHENANTHRENE	1409219	ND	0.38	2.1	1	mg/kg	UJ

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0068	REG	9/4/2014	PHENOL	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0068	REG	9/4/2014	PYRIDINE	1409219	ND	0.58	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	1,2,4-TRICHLOROBENZENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	1,2-DICHLOROBENZENE	1409219	ND	0.42	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	1,3-DICHLOROBENZENE	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	1,4-DICHLOROBENZENE	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4,5-TRICHLOROPHENOL	1409219	ND	0.47	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4,6-TRICHLOROPHENOL	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4-DICHLOROPHENOL	1409219	ND	0.66	4.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4-DIMETHYLPHENOL	1409219	ND	0.64	3.2	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4-DINITROPHENOL	1409219	ND	0.75	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,4-DINITROTOLUENE	1409219	ND	0.79	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2,6-DINITROTOLUENE	1409219	ND	0.63	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-CHLORONAPHTHALENE	1409219	ND	0.61	2.7	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-CHLOROPHENOL	1409219	ND	0.66	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-METHYLNAPHTHALENE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-METHYLPHENOL	1409219	ND	0.61	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-NITROANILINE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	2-NITROPHENOL	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	3,3'-DICHLOROBENZIDINE	1409219	ND	0.59	2.7	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	3-Methylphenol and 4-methylphenol	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	3-NITROANILINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4,6-DINITRO-2-METHYLPHENOL	1409219	ND	0.44	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-BROMOPHENYL PHENYL ETHER	1409219	ND	0.54	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-CHLORO-3-METHYLPHENOL	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-CHLOROANILINE	1409219	ND	0.56	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-CHLOROPHENYL PHENYL ETHER	1409219	ND	0.6	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-NITROANILINE	1409219	ND	0.51	4.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	4-NITROPHENOL	1409219	ND	0.66	2.7	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	ACENAPHTHENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	ACENAPHTHYLENE	1409219	ND	0.52	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	ANILINE	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	ANTHRACENE	1409219	ND	0.46	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	BENZO(A)PYRENE	1409219	8.6	0.64	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	BENZO(B)FLUORANTHENE	1409219	14	0.73	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	BENZO(G,H,I)PERYLENE	1409219	3.8	0.65	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	BENZO(K)FLUORANTHENE	1409219	4.9	0.81	2.1	1	mg/kg	J-

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code S			**Method SW8270C**							
FFOR-CF-0069	REG	9/4/2014	BIS(2-CHLOROETHOXY)METHANE	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	BIS(2-CHLOROETHYL)ETHER	1409219	ND	0.86	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	BIS(2-CHLOROISOPROPYL)ETHER	1409219	ND	0.4	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1409219	ND	0.72	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	BUTYL BENZYL PHTHALATE	1409219	ND	0.45	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	CARBAZOLE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	CHRYSENE	1409219	3.6	0.54	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	DIBENZOFURAN	1409219	ND	0.72	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	DIETHYL PHTHALATE	1409219	ND	0.48	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	DIMETHYL PHTHALATE	1409219	ND	0.59	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	DI-N-BUTYL PHTHALATE	1409219	ND	0.48	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	DI-N-OCTYL PHTHALATE	1409219	ND	2.7	4.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	FLUORENE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	HEXACHLOROBENZENE	1409219	ND	0.58	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	HEXACHLOROBUTADIENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	HEXACHLOROCYCLOPENTADIENE	1409219	ND	0.69	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	HEXACHLOROETHANE	1409219	ND	0.75	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	INDENO(1,2,3-CD)PYRENE	1409219	4.8	0.71	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	ISOPHORONE	1409219	ND	0.7	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	NAPHTHALENE	1409219	ND	0.51	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	NITROBENZENE	1409219	ND	0.6	5.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	N-NITROSODIMETHYLAMINE	1409219	ND	0.81	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	N-NITROSODI-N-PROPYLAMINE	1409219	ND	0.71	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	N-NITROSODIPHENYLAMINE	1409219	ND	0.62	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	PENTACHLOROPHENOL	1409219	ND	0.87	4.3	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	PHENANTHRENE	1409219	ND	0.39	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	PHENOL	1409219	ND	0.63	2.1	1	mg/kg	UJ
FFOR-CF-0069	REG	9/4/2014	PYRENE	1409219	24	0.58	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	PYRIDINE	1409219	ND	0.59	5.3	1	mg/kg	UJ
Reason Code STr			**Method SW8260B**							
FFOR-CF-0041	REG	7/31/2014	2-BUTANONE	1407F02	0.65	0.15	3.2	10	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	2-BUTANONE	1408A76	1.3	0.3	3.3	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	ACETONE	1408A76	3	0.65	5	20	mg/kg	J+
FFOR-CF-0050	REG	8/20/2014	TERT-BUTYLBENZENE	1408A76	0.089	0.073	0.33	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	2-BUTANONE	1408B56	1.5	0.32	7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	ACETONE	1408B56	3	0.68	10	20	mg/kg	J+

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Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Confirmation Samples										
Reason Code	**STr**		**Method SW8260B**							
FFOR-CF-0051	REG	8/21/2014	TERT-BUTYLBENZENE	1408B56	0.25	0.077	0.7	20	mg/kg	J+
FFOR-CF-0051	REG	8/21/2014	TOLUENE	1408B56	0.18	0.077	0.7	20	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	2-BUTANONE	1408E34	0.93	0.17	3.7	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	BENZENE	1408E34	0.044	0.04	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	TERT-BUTYLBENZENE	1408E34	0.2	0.041	0.37	10	mg/kg	J+
FFOR-CF-0053	REG	8/27/2014	TRICHLOROETHENE (TCE)	1408E34	0.06	0.051	0.37	10	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	ACETONE	1409046	0.4	0.21	3.2	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	METHYLENE CHLORIDE	1409046	0.24	0.02	0.64	5	mg/kg	J+
FFOR-CF-0059	REG	9/2/2014	TERT-BUTYLBENZENE	1409046	0.067	0.024	0.21	5	mg/kg	J+
FFOR-CF-0071	REG	9/4/2014	1,2,4-TRIMETHYLBENZENE	1409219	0.31	0.049	0.4	10	mg/kg	J+
FFOR-CF-0071	REG	9/4/2014	NAPHTHALENE	1409219	0.31	0.033	0.81	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	2-BUTANONE	1409275	2.2	0.17	3.7	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	METHYLENE CHLORIDE	1409275	0.4	0.034	1.1	10	mg/kg	J+
FFOR-CF-0074	REG	9/5/2014	TERT-BUTYLBENZENE	1409275	0.088	0.04	0.37	10	mg/kg	J+
Reason Code	**STr**		**Method SW8270C**							
FFOR-CF-0006	REG	6/30/2014	CARBAZOLE	1406D88	0.79	0.48	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	BENZO(G,H,I)PERYLENE	1406D88	0.72	0.65	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	BENZO(K)FLUORANTHENE	1406D88	ND	0.82	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BIS(2-CHLOROETHOXY)METHANE	1406D88	ND	0.73	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BIS(2-CHLOROETHYL)ETHER	1406D88	ND	0.87	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BIS(2-CHLOROISOPROPYL)ETHER	1406D88	ND	0.4	1.1	1	mg/kg	UJ
FFOR-CF-0007	REG	6/30/2014	BIS(2-ETHYLHEXYL)PHTHALATE	1406D88	1.1	0.73	2.7	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	CHRYSENE	1406D88	0.84	0.55	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	FLUORANTHENE	1406D88	0.76	0.48	1.1	1	mg/kg	J-
FFOR-CF-0007	REG	6/30/2014	PYRENE	1406D88	0.98	0.59	1.1	1	mg/kg	J-
FFOR-CF-0041	REG	7/31/2014	BENZ(A)ANTHRACENE	1407F02	1	0.59	2.2	5	mg/kg	J-
FFOR-CF-0065	REG	9/4/2014	CHRYSENE	1409219	0.54	0.54	2.1	1	mg/kg	J-
FFOR-CF-0068	REG	9/4/2014	BENZO(G,H,I)PERYLENE	1409219	0.79	0.64	2.1	1	mg/kg	J-
FFOR-CF-0068	REG	9/4/2014	PYRENE	1409219	0.81	0.57	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	BENZ(A)ANTHRACENE	1409219	1.9	0.58	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	DIBENZ(A,H)ANTHRACENE	1409219	1.7	0.63	2.1	1	mg/kg	J-
FFOR-CF-0069	REG	9/4/2014	FLUORANTHENE	1409219	0.8	0.48	2.1	1	mg/kg	J-
Step Out Samples										
Reason Code	**D2MS**		**Method SW8270C_SIM**							
FFOR-CF-0078	REG	7/21/2014	ANTHRACENE	1407965	0.13	0.013	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	BENZ(A)ANTHRACENE	1407965	0.63	0.011	0.043	1	mg/kg	J+

Appendix G - Table 3
Qualified Data Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Sample ID	Sample Type	Sample Date	Analyte	SDG	Result	DL	LOQ	Dilution	Units	Qualifier
Step Out Samples										
Reason Code D2MS			**Method SW8270C_SIM**							
FFOR-CF-0078	REG	7/21/2014	BENZO(A)PYRENE	1407965	0.95	0.016	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	BENZO(B)FLUORANTHENE	1407965	1.4	0.014	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	BENZO(G,H,I)PERYLENE	1407965	0.73	0.012	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	BENZO(K)FLUORANTHENE	1407965	0.51	0.017	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	CHRYSENE	1407965	0.71	0.0077	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	DIBENZ(A,H)ANTHRACENE	1407965	0.16	0.016	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	FLUORANTHENE	1407965	0.58	0.013	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	INDENO(1,2,3-CD)PYRENE	1407965	0.65	0.015	0.043	1	mg/kg	J+
FFOR-CF-0078	REG	7/21/2014	PYRENE	1407965	0.51	0.011	0.043	1	mg/kg	J+
Reason Code D2MSTr			**Method SW8270C_SIM**							
FFOR-CF-0078	REG	7/21/2014	PHENANTHRENE	1407965	0.042	0.012	0.043	1	mg/kg	J+
Reason Code MS			**Method SW8270C_SIM**							
FFOR-CF-0078	REG	7/21/2014	ACENAPHTHYLENE	1407965	0.093	0.013	0.043	1	mg/kg	J+
Reason Code S			**Method SW8270C_SIM**							
FFOR-CF-0090	REG	9/11/2014	BENZ(A)ANTHRACENE	1409570	0.12	0.01	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	BENZO(A)PYRENE	1409570	0.11	0.015	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	BENZO(B)FLUORANTHENE	1409570	0.26	0.013	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	BENZO(G,H,I)PERYLENE	1409570	0.75	0.012	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	CHRYSENE	1409570	0.11	0.0072	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	DIBENZ(A,H)ANTHRACENE	1409570	0.32	0.015	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	FLUORANTHENE	1409570	0.21	0.012	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	INDENO(1,2,3-CD)PYRENE	1409570	0.26	0.014	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	PHENANTHRENE	1409570	0.14	0.011	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	PYRENE	1409570	0.18	0.0098	0.04	1	mg/kg	J+
Reason Code STr			**Method SW8270C_SIM**							
FFOR-CF-0090	REG	9/11/2014	ACENAPHTHENE	1409570	0.023	0.013	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	ANTHRACENE	1409570	0.037	0.012	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	FLUORENE	1409570	0.017	0.014	0.04	1	mg/kg	J+
FFOR-CF-0090	REG	9/11/2014	NAPHTHALENE	1409570	0.011	0.011	0.04	1	mg/kg	J+

Notes: See Appendix G - Table 2 for definitions of Qualifiers and Reason Codes.

DL Detection limit
FD Field duplicate sample
LOQ Limit of quantitation
ND Not detected at the LOQ
REG Normal sample sent to the lab
SDG Sample delivery group
mg/kg Milligrams per kilogram

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-10									
SW6010B	LEAD	7/1/2014	6	0.27	4.6	0.27	mg/kg	26.4	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		6.9 J	11	13	11	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	4	ND	4	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	56	ND	54	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	2-BUTANONE		ND	0.00798	ND	0.00663	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	2-HEXANONE		ND	0.00798	ND	0.00663	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00798	ND	0.00663	mg/kg	--	--
	ACETONE		0.00986	0.00798	ND	0.00663	mg/kg	--	--
	BENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	BROMOBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	BROMOFORM		ND	0.0016	ND	0.00133	mg/kg	--	--
	BROMOMETHANE		ND	0.00399	ND	0.00332	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00798	ND	0.00663	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.0016	ND	0.00133	mg/kg	--	--
	CHLOROBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	CHLOROETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-10									
SW8260B	CHLOROFORM	7/1/2014	ND	0.0016	ND	0.00133	mg/kg	--	--
	CHLOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	CIS-1,2-DCE		ND	0.0016	ND	0.00133	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	DIBROMOMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	ETHYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.0016	ND	0.00133	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00399	ND	0.00332	mg/kg	--	--
	NAPHTHALENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	STYRENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.0016	ND	0.00133	mg/kg	--	--
	TOLUENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	TRANS-1,2-DCE		ND	0.0016	ND	0.00133	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.0016	ND	0.00133	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.0016	ND	0.00133	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.0016	ND	0.00133	mg/kg	--	--
	VINYL ACETATE		ND	0.00798	ND	0.00663	mg/kg	--	--
	VINYL CHLORIDE		ND	0.0016	ND	0.00133	mg/kg	--	--
	XYLENES, TOTAL		ND	0.0016	ND	0.00133	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.22	ND	0.44	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.22	ND	0.44	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.22	ND	0.44	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.22	ND	0.44	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	0.22	ND	0.44	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.22	ND	0.44	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.44	ND	0.88	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.33	ND	0.66	mg/kg	--	--
	2,4-DINITROPHENOL		ND	0.55	ND	1.1	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	0.55	ND	1.1	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	0.55	ND	1.1	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.27	ND	0.55	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.22	ND	0.44	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.22	ND	0.44	mg/kg	--	--
	2-METHYLPHENOL		ND	0.55	ND	1.1	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-10									
SW8270C	2-NITROANILINE	7/1/2014	ND	0.22	ND	0.44	mg/kg	--	--
	2-NITROPHENOL		ND	0.22	ND	0.44	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.27	ND	0.55	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		0.075 J	0.22	ND	0.44	mg/kg	--	--
	3-NITROANILINE		ND	0.22	ND	0.44	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	0.55	ND	1.1	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.22	ND	0.44	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	0.55	ND	1.1	mg/kg	--	--
	4-CHLOROANILINE		ND	0.55	ND	1.1	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	0.22	ND	0.44	mg/kg	--	--
	4-NITROANILINE		ND	0.44	ND	0.88	mg/kg	--	--
	4-NITROPHENOL		ND	0.27	ND	0.55	mg/kg	--	--
	ACENAPHTHENE		ND	0.22	ND	0.44	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.22	ND	0.44	mg/kg	--	--
	ANILINE		ND	0.22	ND	0.44	mg/kg	--	--
	ANTHRACENE		ND	0.22	ND	0.44	mg/kg	--	--
	BENZ(A)ANTHRACENE		0.11 J	0.22	0.21 J	0.44	mg/kg	--	--
	BENZO(A)PYRENE		0.08 J	0.22	ND	0.44	mg/kg	--	--
	BENZO(B)FLUORANTHENE		0.095 J	0.22	ND	0.44	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		0.16 J	0.22	0.18 J	0.44	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	0.22	ND	0.44	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.22	ND	0.44	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.22	ND	0.44	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.22	ND	0.44	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.55	ND	1.1	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.22	ND	0.44	mg/kg	--	--
	CARBAZOLE		ND	0.22	ND	0.44	mg/kg	--	--
	CHRYSENE		0.064 J	0.22	ND	0.44	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.22	ND	0.44	mg/kg	--	--
	DIBENZOFURAN		ND	0.22	ND	0.44	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.22	ND	0.44	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	0.22	ND	0.44	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	0.55	ND	1.1	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.44	ND	0.88	mg/kg	--	--
	FLUORANTHENE		ND	0.22	ND	0.44	mg/kg	--	--
	FLUORENE		ND	0.22	ND	0.44	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.22	ND	0.44	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.22	ND	0.44	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.22	ND	0.44	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.22	ND	0.44	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		0.16 J	0.22	0.17 J	0.44	mg/kg	--	--
	ISOPHORONE		ND	0.55	ND	1.1	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-10									
SW8270C	NAPHTHALENE	7/1/2014	ND	0.22	ND	0.44	mg/kg	--	--
	NITROBENZENE		ND	0.55	ND	1.1	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.22	ND	0.44	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.22	ND	0.44	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.22	ND	0.44	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.44	ND	0.88	mg/kg	--	--
	PHENANTHRENE		ND	0.22	ND	0.44	mg/kg	--	--
	PHENOL		ND	0.22	ND	0.44	mg/kg	--	--
	PYRENE		0.064 J	0.22	ND	0.44	mg/kg	--	--
	PYRIDINE		ND	0.55	ND	1.1	mg/kg	--	--
FFOR-EXC-20									
SW6010B	LEAD	7/2/2014	1.3	0.29	1.1	0.29	mg/kg	16.7	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		ND	12	ND	12	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	4.6	ND	4.2	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	59	ND	58	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	2-BUTANONE		ND	0.00818	ND	0.00891	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	2-HEXANONE		ND	0.00818	ND	0.00891	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00818	ND	0.00891	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-20									
SW8260B	ACETONE	7/2/2014	ND	0.00818	ND	0.00891	mg/kg	--	--
	BENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	BROMOBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	BROMOFORM		ND	0.00164	ND	0.00178	mg/kg	--	--
	BROMOMETHANE		ND	0.00409	ND	0.00445	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00818	ND	0.00891	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.00164	ND	0.00178	mg/kg	--	--
	CHLOROBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	CHLOROETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	CHLOROFORM		ND	0.00164	ND	0.00178	mg/kg	--	--
	CHLOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	CIS-1,2-DCE		ND	0.00164	ND	0.00178	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	DIBROMOMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	ETHYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.00164	ND	0.00178	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00409	ND	0.00445	mg/kg	--	--
	NAPHTHALENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	STYRENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.00164	ND	0.00178	mg/kg	--	--
	TOLUENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	TRANS-1,2-DCE		ND	0.00164	ND	0.00178	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.00164	ND	0.00178	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.00164	ND	0.00178	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.00164	ND	0.00178	mg/kg	--	--
	VINYL ACETATE		ND	0.00818	ND	0.00891	mg/kg	--	--
	VINYL CHLORIDE		ND	0.00164	ND	0.00178	mg/kg	--	--
	XYLENES, TOTAL		ND	0.00164	ND	0.00178	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.23	ND	0.23	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.23	ND	0.23	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.23	ND	0.23	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.23	ND	0.23	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-20									
SW8270C	2,4,5-TRICHLOROPHENOL	7/2/2014	ND	0.23	ND	0.23	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.23	ND	0.23	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.47	ND	0.47	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.35	ND	0.35	mg/kg	--	--
	2,4-DINITROPHENOL		ND	0.59	ND	0.59	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	0.59	ND	0.59	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	0.59	ND	0.59	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.29	ND	0.29	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.23	ND	0.23	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.23	ND	0.23	mg/kg	--	--
	2-METHYLPHENOL		ND	0.59	ND	0.59	mg/kg	--	--
	2-NITROANILINE		ND	0.23	ND	0.23	mg/kg	--	--
	2-NITROPHENOL		ND	0.23	ND	0.23	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.29	ND	0.29	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	0.23	ND	0.23	mg/kg	--	--
	3-NITROANILINE		ND	0.23	ND	0.23	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	0.59	ND	0.59	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.23	ND	0.23	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	0.59	ND	0.59	mg/kg	--	--
	4-CHLOROANILINE		ND	0.59	ND	0.59	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	0.23	ND	0.23	mg/kg	--	--
	4-NITROANILINE		ND	0.47	ND	0.47	mg/kg	--	--
	4-NITROPHENOL		ND	0.29	ND	0.29	mg/kg	--	--
	ACENAPHTHENE		ND	0.23	ND	0.23	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.23	ND	0.23	mg/kg	--	--
	ANILINE		ND	0.23	ND	0.23	mg/kg	--	--
	ANTHRACENE		ND	0.23	ND	0.23	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.23	ND	0.23	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.23	ND	0.23	mg/kg	--	--
	BENZO(B)FLUORANTHENE		ND	0.23	ND	0.23	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	0.23	ND	0.23	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	0.23	ND	0.23	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.23	ND	0.23	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.23	ND	0.23	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.23	ND	0.23	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.59	ND	0.59	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.23	ND	0.23	mg/kg	--	--
	CARBAZOLE		ND	0.23	ND	0.23	mg/kg	--	--
	CHRYSENE		ND	0.23	ND	0.23	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.23	ND	0.23	mg/kg	--	--
	DIBENZOFURAN		ND	0.23	ND	0.23	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.23	ND	0.23	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-20									
SW8270C	DIMETHYL PHTHALATE	7/2/2014	ND	0.23	ND	0.23	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	0.59	ND	0.59	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.47	ND	0.47	mg/kg	--	--
	FLUORANTHENE		ND	0.23	ND	0.23	mg/kg	--	--
	FLUORENE		ND	0.23	ND	0.23	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.23	ND	0.23	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.23	ND	0.23	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.23	ND	0.23	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.23	ND	0.23	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		ND	0.23	ND	0.23	mg/kg	--	--
	ISOPHORONE		ND	0.59	ND	0.59	mg/kg	--	--
	NAPHTHALENE		ND	0.23	ND	0.23	mg/kg	--	--
	NITROBENZENE		ND	0.59	ND	0.59	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.23	ND	0.23	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.23	ND	0.23	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.23	ND	0.23	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.47	ND	0.47	mg/kg	--	--
	PHENANTHRENE		ND	0.23	ND	0.23	mg/kg	--	--
	PHENOL		ND	0.23	ND	0.23	mg/kg	--	--
	PYRENE		ND	0.23	ND	0.23	mg/kg	--	--
	PYRIDINE		ND	0.59	ND	0.59	mg/kg	--	--
FFOR-EXC-30									
SW6010B	LEAD	7/25/2014	5.8	0.28	3.9	0.29	mg/kg	39.2	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		ND	12	ND	12	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	3.6	ND	3.8	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	58	ND	59	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.00146	ND	0.0015	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-30									
SW8260B	1,3,5-TRIMETHYLBENZENE	7/25/2014	ND	0.00146	ND	0.0015	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	2-BUTANONE		ND	0.00728	ND	0.0075	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	2-HEXANONE		ND	0.00728	ND	0.0075	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00728	ND	0.0075	mg/kg	--	--
	ACETONE		0.0147	0.00728	0.0136	0.0075	mg/kg	7.8	Yes
	BENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	BROMOBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	BROMOFORM		ND	0.00146	ND	0.0015	mg/kg	--	--
	BROMOMETHANE		0.000802 J-	0.00364	ND	0.00375	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00728	ND	0.0075	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.00146	ND	0.0015	mg/kg	--	--
	CHLOROBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	CHLOROETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	CHLOROFORM		ND	0.00146	ND	0.0015	mg/kg	--	--
	CHLOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	CIS-1,2-DCE		ND	0.00146	ND	0.0015	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	DIBROMOMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	ETHYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.00146	ND	0.0015	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00364	ND	0.00375	mg/kg	--	--
	NAPHTHALENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	STYRENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.00146	ND	0.0015	mg/kg	--	--
	TOLUENE		0.00102 J	0.00146	0.00104 J	0.0015	mg/kg	--	--

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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-30									
SW8260B	TRANS-1,2-DCE	7/25/2014	ND	0.00146	ND	0.0015	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.00146	ND	0.0015	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.00146	ND	0.0015	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.00146	ND	0.0015	mg/kg	--	--
	VINYL ACETATE		ND	0.00728	ND	0.0075	mg/kg	--	--
	VINYL CHLORIDE		ND	0.00146	ND	0.0015	mg/kg	--	--
	XYLENES, TOTAL		ND	0.00146	ND	0.0015	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.46	ND	0.46	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.46	ND	0.46	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.46	ND	0.46	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.46	ND	0.46	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	0.46	ND	0.46	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.46	ND	0.46	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.92	ND	0.93	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.69	ND	0.69	mg/kg	--	--
	2,4-DINITROPHENOL		ND	1.1	ND	1.2	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	1.1	ND	1.2	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	1.1	ND	1.2	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.57	ND	0.58	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.46	ND	0.46	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.46	ND	0.46	mg/kg	--	--
	2-METHYLPHENOL		ND	1.1	ND	1.2	mg/kg	--	--
	2-NITROANILINE		ND	0.46	ND	0.46	mg/kg	--	--
	2-NITROPHENOL		ND	0.46	ND	0.46	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.57	ND	0.58	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	0.46	ND	0.46	mg/kg	--	--
	3-NITROANILINE		ND	0.46	ND	0.46	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	1.1	ND	1.2	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.46	ND	0.46	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	1.1	ND	1.2	mg/kg	--	--
	4-CHLOROANILINE		ND	1.1	ND	1.2	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	0.46	ND	0.46	mg/kg	--	--
	4-NITROANILINE		ND	0.92	ND	0.93	mg/kg	--	--
	4-NITROPHENOL		ND	0.57	ND	0.58	mg/kg	--	--
	ACENAPHTHENE		ND	0.46	ND	0.46	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.46	ND	0.46	mg/kg	--	--
	ANILINE		ND	0.46	ND	0.46	mg/kg	--	--
	ANTHRACENE		ND	0.46	ND	0.46	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.46	0.28 J	0.46	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.46	0.29 J	0.46	mg/kg	--	--
	BENZO(B)FLUORANTHENE		ND	0.46	0.47	0.46	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	0.46	0.28 J	0.46	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-30									
SW8270C	BENZO(K)FLUORANTHENE	7/25/2014	ND	0.46	0.2 J	0.46	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.46	ND	0.46	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.46	ND	0.46	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.46	ND	0.46	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	1.1	ND	1.2	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.46	ND	0.46	mg/kg	--	--
	CARBAZOLE		ND	0.46	ND	0.46	mg/kg	--	--
	CHRYSENE		ND	0.46	0.33 J	0.46	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.46	ND	0.46	mg/kg	--	--
	DIBENZOFURAN		ND	0.46	ND	0.46	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.46	ND	0.46	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	0.46	ND	0.46	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	1.1	ND	1.2	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.92	ND	0.93	mg/kg	--	--
	FLUORANTHENE		ND	0.46	0.28 J	0.46	mg/kg	--	--
	FLUORENE		ND	0.46	ND	0.46	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.46	ND	0.46	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.46	ND	0.46	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.46	ND	0.46	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.46	ND	0.46	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		ND	0.46	0.26 J	0.46	mg/kg	--	--
	ISOPHORONE		ND	1.1	ND	1.2	mg/kg	--	--
	NAPHTHALENE		ND	0.46	ND	0.46	mg/kg	--	--
	NITROBENZENE		ND	1.1	ND	1.2	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.46	ND	0.46	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.46	ND	0.46	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.46	ND	0.46	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.92	ND	0.93	mg/kg	--	--
	PHENANTHRENE		ND	0.46	ND	0.46	mg/kg	--	--
	PHENOL		ND	0.46	ND	0.46	mg/kg	--	--
	PYRENE		ND	0.46	0.31 J	0.46	mg/kg	--	--
	PYRIDINE		ND	1.1	ND	1.2	mg/kg	--	--
FFOR-EXC-40									
SW6010B	LEAD	8/18/2014	12 J-	0.29	15	0.27	mg/kg	22.2	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		ND	11	ND	11	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	5.6	ND	5.6	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	57	ND	55	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-40									
SW8260B	1,1-DICHLOROETHENE	8/18/2014	ND	0.00158	ND	0.0016	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		0.00121 J	0.00158	0.00115 J	0.0016	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	2-BUTANONE		ND	0.00788	ND	0.008	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	2-HEXANONE		ND	0.00788	ND	0.008	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00788	ND	0.008	mg/kg	--	--
	ACETONE		0.0154 J-	0.00788	0.0202 J-	0.008	mg/kg	27	Yes
	BENZENE		0.00262 J-	0.00158	0.0025	0.0016	mg/kg	4.7	Yes
	BROMOBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	BROMOFORM		ND	0.00158	ND	0.0016	mg/kg	--	--
	BROMOMETHANE		ND	0.00394	ND	0.004	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00788	ND	0.008	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.00158	ND	0.0016	mg/kg	--	--
	CHLOROBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	CHLOROETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	CHLOROFORM		ND	0.00158	ND	0.0016	mg/kg	--	--
	CHLOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	CIS-1,2-DCE		ND	0.00158	ND	0.0016	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	DIBROMOMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	ETHYLBENZENE		0.000851 J	0.00158	ND	0.0016	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.00158	ND	0.0016	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-40									
SW8260B	ISOPROPYLBENZENE	8/18/2014	ND	0.00158	ND	0.0016	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.00158	ND	0.0016	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00394	ND	0.004	mg/kg	--	--
	NAPHTHALENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	STYRENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.00158	ND	0.0016	mg/kg	--	--
	TOLUENE		0.00449 J-	0.00158	0.00377	0.0016	mg/kg	17.4	Yes
	TRANS-1,2-DCE		ND	0.00158	ND	0.0016	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.00158	ND	0.0016	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.00158	ND	0.0016	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.00158	ND	0.0016	mg/kg	--	--
	VINYL ACETATE		ND	0.00788	ND	0.008	mg/kg	--	--
	VINYL CHLORIDE		ND	0.00158	ND	0.0016	mg/kg	--	--
	XYLENES, TOTAL		0.00425	0.00158	0.00305	0.0016	mg/kg	32.9	Yes
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.23	ND	0.22	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.23	ND	0.22	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.23	ND	0.22	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.23	ND	0.22	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	0.23	ND	0.22	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.23	ND	0.22	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.45	ND	0.44	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.34	ND	0.33	mg/kg	--	--
	2,4-DINITROPHENOL		ND	0.56	ND	0.55	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	0.56	ND	0.55	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	0.56	ND	0.55	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.28	ND	0.28	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.23	ND	0.22	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.23	ND	0.22	mg/kg	--	--
	2-METHYLPHENOL		ND	0.56	ND	0.55	mg/kg	--	--
	2-NITROANILINE		ND	0.23	ND	0.22	mg/kg	--	--
	2-NITROPHENOL		ND	0.23	ND	0.22	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.28	ND	0.28	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	0.23	ND	0.22	mg/kg	--	--
	3-NITROANILINE		ND	0.23	ND	0.22	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	0.56	ND	0.55	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.23	ND	0.22	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	0.56	ND	0.55	mg/kg	--	--
	4-CHLOROANILINE		ND	0.56	ND	0.55	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-40									
SW8270C	4-CHLOROPHENYL PHENYL ETHER	8/18/2014	ND	0.23	ND	0.22	mg/kg	--	--
	4-NITROANILINE		ND	0.45	ND	0.44	mg/kg	--	--
	4-NITROPHENOL		ND	0.28	ND	0.28	mg/kg	--	--
	ACENAPHTHENE		ND	0.23	ND	0.22	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.23	ND	0.22	mg/kg	--	--
	ANILINE		ND	0.23	ND	0.22	mg/kg	--	--
	ANTHRACENE		ND	0.23	ND	0.22	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.23	ND	0.22	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.23	ND	0.22	mg/kg	--	--
	BENZO(B)FLUORANTHENE		ND	0.23	ND	0.22	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	0.23	ND	0.22	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	0.23	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.23	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.23	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.23	ND	0.22	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.56	ND	0.55	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.23	ND	0.22	mg/kg	--	--
	CARBAZOLE		ND	0.23	ND	0.22	mg/kg	--	--
	CHRYSENE		ND	0.23	ND	0.22	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.23	ND	0.22	mg/kg	--	--
	DIBENZOFURAN		ND	0.23	ND	0.22	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.23	ND	0.22	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	0.23	ND	0.22	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		0.086 J	0.56	ND	0.55	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.45	ND	0.44	mg/kg	--	--
	FLUORANTHENE		ND	0.23	ND	0.22	mg/kg	--	--
	FLUORENE		ND	0.23	ND	0.22	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.23	ND	0.22	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.23	ND	0.22	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.23	ND	0.22	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.23	ND	0.22	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		ND	0.23	ND	0.22	mg/kg	--	--
	ISOPHORONE		ND	0.56	ND	0.55	mg/kg	--	--
	NAPHTHALENE		ND	0.23	ND	0.22	mg/kg	--	--
	NITROBENZENE		ND	0.56	ND	0.55	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.23	ND	0.22	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.23	ND	0.22	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.23	ND	0.22	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.45	ND	0.44	mg/kg	--	--
	PHENANTHRENE		ND	0.23	ND	0.22	mg/kg	--	--
	PHENOL		ND	0.23	ND	0.22	mg/kg	--	--
	PYRENE		ND	0.23	ND	0.22	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-40									
SW8270C	PYRIDINE	8/18/2014	ND	0.56	ND	0.55	mg/kg	--	--
FFOR-EXC-50									
SW6010B	LEAD	9/2/2014	2.5	0.28	2.3	0.27	mg/kg	8.3	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		ND	11	ND	11	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	3.7	ND	3.7	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	54	ND	54	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	2-BUTANONE		ND	0.00721	ND	0.00749	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	2-HEXANONE		ND	0.00721	ND	0.00749	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00721	ND	0.00749	mg/kg	--	--
	ACETONE		0.00979 J+	0.00721	0.0112 J-	0.00749	mg/kg	13.4	Yes
	BENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	BROMOBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	BROMOFORM		ND	0.00144	ND	0.0015	mg/kg	--	--
	BROMOMETHANE		ND	0.00361	ND	0.00375	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00721	ND	0.00749	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.00144	ND	0.0015	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-50									
SW8260B	CHLOROBENZENE	9/2/2014	ND	0.00144	ND	0.0015	mg/kg	--	--
	CHLOROETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	CHLOROFORM		ND	0.00144	ND	0.0015	mg/kg	--	--
	CHLOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	CIS-1,2-DCE		ND	0.00144	ND	0.0015	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	DIBROMOMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	ETHYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.00144	ND	0.0015	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00361	ND	0.00375	mg/kg	--	--
	NAPHTHALENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	STYRENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.00144	ND	0.0015	mg/kg	--	--
	TOLUENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	TRANS-1,2-DCE		ND	0.00144	ND	0.0015	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.00144	ND	0.0015	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.00144	ND	0.0015	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.00144	ND	0.0015	mg/kg	--	--
	VINYL ACETATE		ND	0.00721	ND	0.00749	mg/kg	--	--
	VINYL CHLORIDE		ND	0.00144	ND	0.0015	mg/kg	--	--
	XYLENES, TOTAL		ND	0.00144	ND	0.0015	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.22	ND	0.22	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.22	ND	0.22	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.22	ND	0.22	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.22	ND	0.22	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	0.22	ND	0.22	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.22	ND	0.22	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.44	ND	0.44	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.33	ND	0.33	mg/kg	--	--
	2,4-DINITROPHENOL		ND	0.54	ND	0.55	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	0.54	ND	0.55	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	0.54	ND	0.55	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.27	ND	0.27	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.22	ND	0.22	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-50									
SW8270C	2-METHYLNAPHTHALENE	9/2/2014	ND	0.22	ND	0.22	mg/kg	--	--
	2-METHYLPHENOL		ND	0.54	ND	0.55	mg/kg	--	--
	2-NITROANILINE		ND	0.22	ND	0.22	mg/kg	--	--
	2-NITROPHENOL		ND	0.22	ND	0.22	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.27	ND	0.27	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	0.22	ND	0.22	mg/kg	--	--
	3-NITROANILINE		ND	0.22	ND	0.22	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	0.54	ND	0.55	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.22	ND	0.22	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	0.54	ND	0.55	mg/kg	--	--
	4-CHLOROANILINE		ND	0.54	ND	0.55	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	0.22	ND	0.22	mg/kg	--	--
	4-NITROANILINE		ND	0.44	ND	0.44	mg/kg	--	--
	4-NITROPHENOL		ND	0.27	ND	0.27	mg/kg	--	--
	ACENAPHTHENE		ND	0.22	ND	0.22	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.22	ND	0.22	mg/kg	--	--
	ANILINE		ND	0.22	ND	0.22	mg/kg	--	--
	ANTHRACENE		ND	0.22	ND	0.22	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.22	ND	0.22	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.22	ND	0.22	mg/kg	--	--
	BENZO(B)FLUORANTHENE		ND	0.22	ND	0.22	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	0.22	ND	0.22	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	0.22	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.22	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.22	ND	0.22	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.22	ND	0.22	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.54	ND	0.55	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.22	ND	0.22	mg/kg	--	--
	CARBAZOLE		ND	0.22	ND	0.22	mg/kg	--	--
	CHRYSENE		ND	0.22	ND	0.22	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.22	ND	0.22	mg/kg	--	--
	DIBENZOFURAN		ND	0.22	ND	0.22	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.22	ND	0.22	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	0.22	ND	0.22	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	0.54	0.053 J	0.55	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.44	ND	0.44	mg/kg	--	--
	FLUORANTHENE		ND	0.22	ND	0.22	mg/kg	--	--
	FLUORENE		ND	0.22	ND	0.22	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.22	ND	0.22	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.22	ND	0.22	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.22	ND	0.22	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.22	ND	0.22	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-50									
SW8270C	INDENO(1,2,3-CD)PYRENE	9/2/2014	ND	0.22	ND	0.22	mg/kg	--	--
	ISOPHORONE		ND	0.54	ND	0.55	mg/kg	--	--
	NAPHTHALENE		ND	0.22	ND	0.22	mg/kg	--	--
	NITROBENZENE		ND	0.54	ND	0.55	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.22	ND	0.22	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.22	ND	0.22	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.22	ND	0.22	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.44	ND	0.44	mg/kg	--	--
	PHENANTHRENE		ND	0.22	ND	0.22	mg/kg	--	--
	PHENOL		ND	0.22	ND	0.22	mg/kg	--	--
	PYRENE		ND	0.22	ND	0.22	mg/kg	--	--
	PYRIDINE		ND	0.54	ND	0.55	mg/kg	--	--
FFOR-EXC-60									
SW6010B	LEAD	9/4/2014	24	0.27	20	0.27	mg/kg	18.2	Yes
SW8015D	DIESEL RANGE ORGANICS (DRO)		13	11	6.3 J	11	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		1.2 J	3.6	0.9 J	3.9	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	54	ND	54	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2-DICHLOROETHANE (EDC)		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	2-BUTANONE		ND	0.00362	ND	0.00386	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	2-HEXANONE		ND	0.00362	ND	0.00386	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.000725	ND	0.000772	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-60									
SW8260B	4-ISOPROPYLTOLUENE	9/4/2014	ND	0.000725	ND	0.000772	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00362	ND	0.00386	mg/kg	--	--
	ACETONE		0.005 J-	0.00362	0.00736 J-	0.00386	mg/kg	38.2	Yes
	BENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	BROMOBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	BROMOFORM		ND	0.000725	ND	0.000772	mg/kg	--	--
	BROMOMETHANE		0.002 U	0.00181	0.002 U	0.00193	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00362	ND	0.00386	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.000725	ND	0.000772	mg/kg	--	--
	CHLOROBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	CHLOROETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	CHLOROFORM		ND	0.000725	ND	0.000772	mg/kg	--	--
	CHLOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	CIS-1,2-DCE		ND	0.000725	ND	0.000772	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	DIBROMOMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	ETHYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.000725	ND	0.000772	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00181	ND	0.00193	mg/kg	--	--
	NAPHTHALENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	STYRENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	TETRACHLOROETHENE (PCE)		ND	0.000725	ND	0.000772	mg/kg	--	--
	TOLUENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	TRANS-1,2-DCE		ND	0.000725	ND	0.000772	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.000725	ND	0.000772	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.000725	ND	0.000772	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.000725	ND	0.000772	mg/kg	--	--
	VINYL ACETATE		ND	0.00362	ND	0.00386	mg/kg	--	--
	VINYL CHLORIDE		ND	0.000725	ND	0.000772	mg/kg	--	--
	XYLENES, TOTAL		ND	0.000725	ND	0.000772	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	2.1	ND	0.42	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	2.1	ND	0.42	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
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Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-60									
SW8270C	1,3-DICHLOROBENZENE	9/4/2014	ND	2.1	ND	0.42	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	2.1	ND	0.42	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	2.1	ND	0.42	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	2.1	ND	0.42	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	4.2	ND	0.84	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	3.2	ND	0.63	mg/kg	--	--
	2,4-DINITROPHENOL		ND	5.3	ND	1.1	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	5.3	ND	1.1	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	5.3	ND	1.1	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	2.6	ND	0.53	mg/kg	--	--
	2-CHLOROPHENOL		ND	2.1	ND	0.42	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	2.1	ND	0.42	mg/kg	--	--
	2-METHYLPHENOL		ND	5.3	ND	1.1	mg/kg	--	--
	2-NITROANILINE		ND	2.1	ND	0.42	mg/kg	--	--
	2-NITROPHENOL		ND	2.1	ND	0.42	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	2.6	ND	0.53	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	2.1	ND	0.42	mg/kg	--	--
	3-NITROANILINE		ND	2.1	ND	0.42	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	5.3	ND	1.1	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	2.1	ND	0.42	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	5.3	ND	1.1	mg/kg	--	--
	4-CHLOROANILINE		ND	5.3	ND	1.1	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	2.1	ND	0.42	mg/kg	--	--
	4-NITROANILINE		ND	4.2	ND	0.84	mg/kg	--	--
	4-NITROPHENOL		ND	2.6	ND	0.53	mg/kg	--	--
	ACENAPHTHENE		ND	2.1	ND	0.42	mg/kg	--	--
	ACENAPHTHYLENE		ND	2.1	ND	0.42	mg/kg	--	--
	ANILINE		ND	2.1	ND	0.42	mg/kg	--	--
	ANTHRACENE		ND	2.1	ND	0.42	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	2.1	ND	0.42	mg/kg	--	--
	BENZO(A)PYRENE		ND	2.1	ND	0.42	mg/kg	--	--
	BENZO(B)FLUORANTHENE		ND	2.1	0.18 J	0.42	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	2.1	ND	0.42	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	2.1	ND	0.42	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	2.1	ND	0.42	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	2.1	ND	0.42	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	2.1	ND	0.42	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	5.3	ND	1.1	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	2.1	ND	0.42	mg/kg	--	--
	CARBAZOLE		ND	2.1	ND	0.42	mg/kg	--	--
	CHRYSENE		0.54 J-	2.1	0.15 J	0.42	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	2.1	ND	0.42	mg/kg	--	--

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FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-60									
SW8270C	DIBENZOFURAN	9/4/2014	ND	2.1	ND	0.42	mg/kg	--	--
	DIETHYL PHTHALATE		ND	2.1	ND	0.42	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	2.1	ND	0.42	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	5.3	ND	1.1	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	4.2	ND	0.84	mg/kg	--	--
	FLUORANTHENE		ND	2.1	ND	0.42	mg/kg	--	--
	FLUORENE		ND	2.1	ND	0.42	mg/kg	--	--
	HEXACHLOROBENZENE		ND	2.1	ND	0.42	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	2.1	ND	0.42	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	2.1	ND	0.42	mg/kg	--	--
	HEXACHLOROETHANE		ND	2.1	ND	0.42	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		ND	2.1	ND	0.42	mg/kg	--	--
	ISOPHORONE		ND	5.3	ND	1.1	mg/kg	--	--
	NAPHTHALENE		ND	2.1	ND	0.42	mg/kg	--	--
	NITROBENZENE		ND	5.3	ND	1.1	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	2.1	ND	0.42	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	2.1	ND	0.42	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	2.1	ND	0.42	mg/kg	--	--
	PENTACHLOROPHENOL		ND	4.2	ND	0.84	mg/kg	--	--
	PHENANTHRENE		ND	2.1	ND	0.42	mg/kg	--	--
	PHENOL		ND	2.1	ND	0.42	mg/kg	--	--
	PYRENE		ND	2.1	ND	0.42	mg/kg	--	--
	PYRIDINE		ND	5.3	ND	1.1	mg/kg	--	--
FFOR-EXC-70									
SW6010B	LEAD	9/5/2014	7.4	0.28	4.2	0.27	mg/kg	55.2	No
SW8015D	DIESEL RANGE ORGANICS (DRO)		ND	11	ND	11	mg/kg	--	--
	GASOLINE RANGE ORGANICS (GRO)		ND	3.9	0.56 J	4.2	mg/kg	--	--
	MOTOR OIL RANGE ORGANICS (MRO)		ND	54	ND	55	mg/kg	--	--
SW8260B	1,1,1,2-TETRACHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1,1-TRICHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1,2,2-TETRACHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1,2-TRICHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1-DICHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1-DICHLOROETHENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,1-DICHLOROPROPENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2,3-TRICHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2,3-TRICHLOROPROPANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2,4-TRICHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2,4-TRIMETHYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2-DIBROMO-3-CHLOROPROPANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2-DIBROMOETHANE (EDB)		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-70									
SW8260B	1,2-DICHLOROETHANE (EDC)	9/5/2014	ND	0.0014	ND	0.00159	mg/kg	--	--
	1,2-DICHLOROPROPANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,3,5-TRIMETHYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,3-DICHLOROPROPANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	2,2-DICHLOROPROPANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	2-BUTANONE		ND	0.00699	ND	0.00793	mg/kg	--	--
	2-CHLOROTOLUENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	2-HEXANONE		ND	0.00699	ND	0.00793	mg/kg	--	--
	4-CHLOROTOLUENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	4-ISOPROPYLTOLUENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	4-METHYL-2-PENTANONE		ND	0.00699	ND	0.00793	mg/kg	--	--
	ACETONE		ND	0.00699	ND	0.00793	mg/kg	--	--
	BENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	BROMOBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	BROMOCHLOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	BROMODICHLOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	BROMOFORM		ND	0.0014	ND	0.00159	mg/kg	--	--
	BROMOMETHANE		ND	0.00349	0.004 UJ	0.00396	mg/kg	--	--
	CARBON DISULFIDE		ND	0.00699	ND	0.00793	mg/kg	--	--
	CARBON TETRACHLORIDE		ND	0.0014	ND	0.00159	mg/kg	--	--
	CHLOROBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	CHLOROETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	CHLOROFORM		ND	0.0014	ND	0.00159	mg/kg	--	--
	CHLOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	CIS-1,2-DCE		ND	0.0014	ND	0.00159	mg/kg	--	--
	CIS-1,3-DICHLOROPROPENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	DIBROMOCHLOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	DIBROMOMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	DICHLORODIFLUOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	ETHYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	ISOPROPYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	METHYL TERT-BUTYL ETHER (MTBE)		ND	0.0014	ND	0.00159	mg/kg	--	--
	METHYLENE CHLORIDE		ND	0.00349	ND	0.00396	mg/kg	--	--
	NAPHTHALENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	N-BUTYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	N-PROPYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	SEC-BUTYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	STYRENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	TERT-BUTYLBENZENE		ND	0.0014	ND	0.00159	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-70									
SW8260B	TETRACHLOROETHENE (PCE)	9/5/2014	ND	0.0014	ND	0.00159	mg/kg	--	--
	TOLUENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	TRANS-1,2-DCE		ND	0.0014	ND	0.00159	mg/kg	--	--
	TRANS-1,3-DICHLOROPROPENE		ND	0.0014	ND	0.00159	mg/kg	--	--
	TRICHLOROETHENE (TCE)		ND	0.0014	ND	0.00159	mg/kg	--	--
	TRICHLOROFLUOROMETHANE		ND	0.0014	ND	0.00159	mg/kg	--	--
	VINYL ACETATE		ND	0.00699	ND	0.00793	mg/kg	--	--
	VINYL CHLORIDE		ND	0.0014	ND	0.00159	mg/kg	--	--
	XYLENES, TOTAL		ND	0.0014	ND	0.00159	mg/kg	--	--
SW8270C	1,2,4-TRICHLOROBENZENE		ND	0.42	ND	0.43	mg/kg	--	--
	1,2-DICHLOROBENZENE		ND	0.42	ND	0.43	mg/kg	--	--
	1,3-DICHLOROBENZENE		ND	0.42	ND	0.43	mg/kg	--	--
	1,4-DICHLOROBENZENE		ND	0.42	ND	0.43	mg/kg	--	--
	2,4,5-TRICHLOROPHENOL		ND	0.42	ND	0.43	mg/kg	--	--
	2,4,6-TRICHLOROPHENOL		ND	0.42	ND	0.43	mg/kg	--	--
	2,4-DICHLOROPHENOL		ND	0.84	ND	0.86	mg/kg	--	--
	2,4-DIMETHYLPHENOL		ND	0.63	ND	0.64	mg/kg	--	--
	2,4-DINITROPHENOL		ND	1.1	ND	1.1	mg/kg	--	--
	2,4-DINITROTOLUENE		ND	1.1	ND	1.1	mg/kg	--	--
	2,6-DINITROTOLUENE		ND	1.1	ND	1.1	mg/kg	--	--
	2-CHLORONAPHTHALENE		ND	0.53	ND	0.54	mg/kg	--	--
	2-CHLOROPHENOL		ND	0.42	ND	0.43	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.42	ND	0.43	mg/kg	--	--
	2-METHYLPHENOL		ND	1.1	ND	1.1	mg/kg	--	--
	2-NITROANILINE		ND	0.42	ND	0.43	mg/kg	--	--
	2-NITROPHENOL		ND	0.42	ND	0.43	mg/kg	--	--
	3,3'-DICHLOROBENZIDINE		ND	0.53	ND	0.54	mg/kg	--	--
	3-Methylphenol and 4-methylphenol		ND	0.42	ND	0.43	mg/kg	--	--
	3-NITROANILINE		ND	0.42	ND	0.43	mg/kg	--	--
	4,6-DINITRO-2-METHYLPHENOL		ND	1.1	ND	1.1	mg/kg	--	--
	4-BROMOPHENYL PHENYL ETHER		ND	0.42	ND	0.43	mg/kg	--	--
	4-CHLORO-3-METHYLPHENOL		ND	1.1	ND	1.1	mg/kg	--	--
	4-CHLOROANILINE		ND	1.1	ND	1.1	mg/kg	--	--
	4-CHLOROPHENYL PHENYL ETHER		ND	0.42	ND	0.43	mg/kg	--	--
	4-NITROANILINE		ND	0.84	ND	0.86	mg/kg	--	--
	4-NITROPHENOL		ND	0.53	ND	0.54	mg/kg	--	--
	ACENAPHTHENE		ND	0.42	ND	0.43	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.42	ND	0.43	mg/kg	--	--
	ANILINE		ND	0.42	ND	0.43	mg/kg	--	--
	ANTHRACENE		ND	0.42	ND	0.43	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.42	ND	0.43	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.42	ND	0.43	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXC-70									
SW8270C	BENZO(B)FLUORANTHENE	9/5/2014	ND	0.42	ND	0.43	mg/kg	--	--
	BENZO(G,H,I)PERYLENE		ND	0.42	ND	0.43	mg/kg	--	--
	BENZO(K)FLUORANTHENE		ND	0.42	ND	0.43	mg/kg	--	--
	BIS(2-CHLOROETHOXY)METHANE		ND	0.42	ND	0.43	mg/kg	--	--
	BIS(2-CHLOROETHYL)ETHER		ND	0.42	ND	0.43	mg/kg	--	--
	BIS(2-CHLOROISOPROPYL)ETHER		ND	0.42	ND	0.43	mg/kg	--	--
	BIS(2-ETHYLHEXYL)PHTHALATE		ND	1.1	ND	1.1	mg/kg	--	--
	BUTYL BENZYL PHTHALATE		ND	0.42	ND	0.43	mg/kg	--	--
	CARBAZOLE		ND	0.42	ND	0.43	mg/kg	--	--
	CHRYSENE		ND	0.42	ND	0.43	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		ND	0.42	ND	0.43	mg/kg	--	--
	DIBENZOFURAN		ND	0.42	ND	0.43	mg/kg	--	--
	DIETHYL PHTHALATE		ND	0.42	ND	0.43	mg/kg	--	--
	DIMETHYL PHTHALATE		ND	0.42	ND	0.43	mg/kg	--	--
	DI-N-BUTYL PHTHALATE		ND	1.1	ND	1.1	mg/kg	--	--
	DI-N-OCTYL PHTHALATE		ND	0.84	ND	0.86	mg/kg	--	--
	FLUORANTHENE		ND	0.42	ND	0.43	mg/kg	--	--
	FLUORENE		ND	0.42	ND	0.43	mg/kg	--	--
	HEXACHLOROBENZENE		ND	0.42	ND	0.43	mg/kg	--	--
	HEXACHLOROBUTADIENE		ND	0.42	ND	0.43	mg/kg	--	--
	HEXACHLOROCYCLOPENTADIENE		ND	0.42	ND	0.43	mg/kg	--	--
	HEXACHLOROETHANE		ND	0.42	ND	0.43	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		ND	0.42	ND	0.43	mg/kg	--	--
	ISOPHORONE		ND	1.1	ND	1.1	mg/kg	--	--
	NAPHTHALENE		ND	0.42	ND	0.43	mg/kg	--	--
	NITROBENZENE		ND	1.1	ND	1.1	mg/kg	--	--
	N-NITROSODIMETHYLAMINE		ND	0.42	ND	0.43	mg/kg	--	--
	N-NITROSODI-N-PROPYLAMINE		ND	0.42	ND	0.43	mg/kg	--	--
	N-NITROSODIPHENYLAMINE		ND	0.42	ND	0.43	mg/kg	--	--
	PENTACHLOROPHENOL		ND	0.84	ND	0.86	mg/kg	--	--
	PHENANTHRENE		ND	0.42	ND	0.43	mg/kg	--	--
	PHENOL		ND	0.42	ND	0.43	mg/kg	--	--
	PYRENE		ND	0.42	ND	0.43	mg/kg	--	--
	PYRIDINE		ND	1.1	ND	1.1	mg/kg	--	--
FFOR-EXCSO-07									
SW8270C_SIM	1-METHYLNAPHTHALENE	9/5/2014	ND	0.02	ND	0.02	mg/kg	--	--
	2-METHYLNAPHTHALENE		ND	0.02	ND	0.02	mg/kg	--	--
	ACENAPHTHENE		ND	0.02	ND	0.02	mg/kg	--	--
	ACENAPHTHYLENE		ND	0.02	ND	0.02	mg/kg	--	--
	ANTHRACENE		ND	0.02	ND	0.02	mg/kg	--	--
	BENZ(A)ANTHRACENE		ND	0.02	ND	0.02	mg/kg	--	--
	BENZO(A)PYRENE		ND	0.02	0.011 J	0.02	mg/kg	--	--

Appendix G - Table 4
Field Duplicate Summary
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Well ID/Method	Analyte	Sample Date	Normal Sample Result	Normal Sample LOQ	Duplicate Sample Result	Duplicate Sample LOQ	Units	RPD %	RPD Goal of 50% Met
FFOR-EXCSO-07									
SW8270C_SIM	BENZO(B)FLUORANTHENE	9/5/2014	0.035	0.02	0.043	0.02	mg/kg	20.5	Yes
	BENZO(G,H,I)PERYLENE		0.025	0.02	0.028	0.02	mg/kg	11.3	Yes
	BENZO(K)FLUORANTHENE		ND	0.02	ND	0.02	mg/kg	--	--
	CHRYSENE		0.0073 J	0.02	0.0093 J	0.02	mg/kg	--	--
	DIBENZ(A,H)ANTHRACENE		0.0087 J	0.02	0.0093 J	0.02	mg/kg	--	--
	FLUORANTHENE		ND	0.02	ND	0.02	mg/kg	--	--
	FLUORENE		ND	0.02	ND	0.02	mg/kg	--	--
	INDENO(1,2,3-CD)PYRENE		0.025	0.02	0.029	0.02	mg/kg	14.8	Yes
	NAPHTHALENE		ND	0.02	ND	0.02	mg/kg	--	--
	PHENANTHRENE		ND	0.02	ND	0.02	mg/kg	--	--
	PYRENE		ND	0.02	ND	0.02	mg/kg	--	--

Notes: See Appendix G - Table 2 for definitions of Qualifiers and Reason Codes.

LOQ Limit of quantitation
mg/L Milligrams per kilogram
RPD Relative percent difference
ND Not detected at the LOQ

RPD formula = 100 x |Primary Result - Duplicate Result| / ((Primary Result + Duplicate Result) / 2)

-- Not applicable since RPD not calculated. RPD is only calculated when the analyte is detected at or above the LOQ in both the normal sample and the duplicate sample.

Appendix G - Table 5
Contractual, Analytical, and Technical Completeness
FFOR Soil Event, June - Sepetember 2014
Kirtland Air Force Base

Analytical Method	Number of Analytes	Number of Samples	Number of Results	Number of Contract Compliant Results	Number of Unqualified Results	Number of Useable Results	Contractual Completeness [Goal = 95 percent] (percent)	Analytical Completeness [Goal = 90 percent] (percent)	Technical Completeness [Goal = 95 percent] (percent)
Background Sample									
SW6010B	7	1	7	7	7	7	100.0	100.0	100.0
SW7196A	1	1	1	1	1	1	100.0	100.0	100.0
SW7471	1	1	1	1	1	1	100.0	100.0	100.0
SW8015D - Extractable	2	1	2	2	2	2	100.0	100.0	100.0
SW8015D - Purgeable	1	1	1	1	1	1	100.0	100.0	100.0
SW8081	19	1	19	19	19	19	100.0	100.0	100.0
SW8082	7	1	7	7	7	7	100.0	100.0	100.0
SW8151	11	1	11	11	11	11	100.0	100.0	100.0
SW8260B	65	1	65	65	65	65	100.0	100.0	100.0
SW8270C	67	1	67	67	67	67	100.0	100.0	100.0
SW8270C_SIM	18	1	18	18	18	18	100.0	100.0	100.0
Confirmation Samples									
SW6010B	1	80	80	80	78	80	100.0	97.5	100.0
SW8015D - Extractable	2	80	160	160	151	160	100.0	94.4	100.0
SW8015D - Purgeable	1	80	80	80	75	80	100.0	93.8	100.0
SW8260B	65	80	5200	5147	4953	5200	99.0	95.3	100.0
SW8270C	67	80	5360	5356	4653	5360	99.9	**86.8**	100.0
Step Out Samples									
SW8270C_SIM	18	14	252	252	225	252	100.0	**89.3**	100.0

Note: Values in bold indicate that results do not meet project completeness goal.

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JA 8.4.14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407F02**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407F02

Lab ID: 1407F02-001
Client Sample ID: FFOR-CF-0041

Collection Date: 7/31/2014 10:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/05/2014							
PERCENT MOISTURE							Analyst: **KJH**
Percent Moisture	8.9	1.0		wt%	1	R20330	8/4/2014

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-01-14		Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg+ KJH	Thermometer Exp Date: 7/17/2015
Start time: 8-1-14 9:58am	Start Temp: 110C	Reviewed by: KJH 8.4.14
End time: 8-4-14 10:31am	End Temp: 109C	

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1407F02-001a	31.9	40.14				8.2890		#VALUE!
MeOH Kits								#VALUE!
1407F02-001a	25.8	43.03	1.00	2.00	2.00	17.2300	0.0000	0.5804
1407F02-002a	26.2	25.67				-0.5300		#VALUE!
Pmoist								#VALUE!
1407F02-001a			1.31	26.36	24.14		8.8623	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

$\frac{26.36 - 24.14}{26.36 - 1.3} \times 100 = 8.86228$ KSH 8/4/14

~~Pmoist~~

~~**Conv. Factor**~~ = KSH **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

$\frac{10.}{17.23} = 0.58038$ KSH 8/4/14

JR 8/5/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407F02**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407F02

Lab ID: 1407F02-001
Client Sample ID: FFOR-CF-0041

Collection Date: 7/31/2014 10:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/05/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	9900	1100		mg/Kg-dry	100	14544	8/4/2014 12:26:23 PM
Motor Oil Range Organics (MRO)	ND	5500		mg/Kg-dry	100	14544	8/4/2014 12:26:23 PM
Surr: DNOP	0	57.9-140	S	%REC	100	14544	8/4/2014 12:26:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

PREP BATCH REPORT

Hall Environmental Analysis Laboratory

rev. by BN 8/1/14

Prep Start Date: 8/1/2014 8:21:15 A
Prep End Date: 8/1/2014 9:21:55 A
Prep Batch ID: 14544 Prep Code: 8015_S_PREP Technician: Brenda Nieto
Initial Temp: °C Final Temp °C

Prep mL / g

BN 8/1/14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14544		Soil			10	0	0	10	1.000	8/1/2014	8/1/2014
LCS-14544		Soil			10	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001A	LT-1	Soil			10 9.98	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001AMS		Soil			10 10.05	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001AMSD		Soil			10 10.02	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-002A	LT-2	Soil			10 10.03	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-003A	LT-3	Soil			10 10.06	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-004A	LT-4	Soil			10 10.12	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-005A	LT-5	Soil			10 10.14	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-006A	LT-6	Soil			10 10.08	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-007A	LT-7	Soil			10 10.15	0	0	10	1.000	8/1/2014	8/1/2014
1407E98-001A	Confirmation	Soil			10 9.97	0	0	10	1.000	8/1/2014	8/1/2014
1407F02-001A	FFOR-CF-0041	MeOH (Soil)			10 10.04	0	0	10	1.001	8/1/2014	8/1/2014
1408002-001A	S-1	Soil			9.99	0	0	10	1.009	8/1/2014	8/1/2014
1408003-001A	S-1	Soil			9.91	0	0	10	0.985	8/1/2014	8/1/2014
1408004-001A	SC-1	Soil			10.15	0	0	10	1.000	8/1/2014	8/1/2014
1408005-001A	SC-9 E Wall 0-8'	Soil			10 9.94	0	0	10	1.000	8/1/2014	8/1/2014
1408005-002A	SC-8 W Wall 0-9'	Soil			10 9.94	0	0	10	1.000	8/1/2014	8/1/2014
1408005-003A	SC-10 S Wall 0-8'	Soil			10 10.16	0	0	10	1.000	8/1/2014	8/1/2014
1408005-004A	SC-11 South Base 9'	Soil			10 10.02	0	0	10	1.000	8/1/2014	8/1/2014
1408005-005A	SC-13 N wall (s exc) 8	Soil			10 10.00	0	0	10	1.000	8/1/2014	8/1/2014
~~1408006-004A~~	Iron Sponge Media (S	Solid			10	0	0	10	1.000	8/1/2014	8/1/2014

Not used BN 8.1.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
		Methylene Chloride	14925	Container-01 of 01	0	mL

BN 8.1.14

BN

Sequence Print

BN 8.5.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-14576	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14576 <D>.dat	1
6	Unknown	0	1	LCS-14576	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14576 <D>.dat	1
7	Unknown	0	1	1407F02-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407F02-001A <D>.dat	1
8	Unknown	0	1	1407F02-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407F02-001A <D>.dat	1
9	Unknown	0	1	1407E63-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-001A <D>.dat	1
10	Unknown	0	1	1407E63-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-002A <D>.dat	1
11	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
12	Unknown	0	1	1407E63-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-001A <D>.dat	1
13	Unknown	0	1	1407E63-001AMS	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-001AMS <D>.dat	1
14	Unknown	0	1	1407E63-001AMSD	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-001AMSD <D>.dat	1
15	Unknown	0	1	1407E63-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-002A <D>.dat	1
16	Unknown	0	1	1407E63-003A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-003A <D>.dat	1
17	Unknown	0	1	1407E63-004A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-004A <D>.dat	1
18	Unknown	0	1	1407E63-005A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-005A <D>.dat	1

8/5/14

Sequence Print

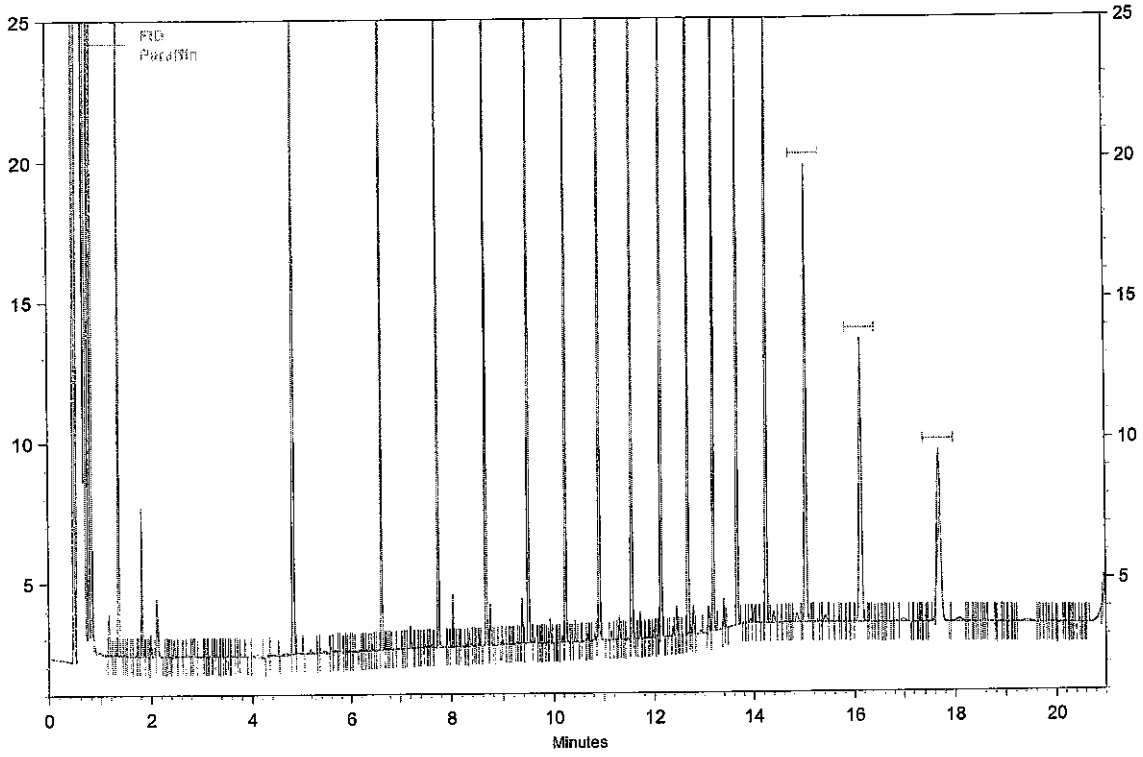
BN 8.5.14

19	Unknown	0	1	1407E63-006A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-006A <D>.dat	1
20	Unknown	0	1	1407E63-007A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E63-007A <D>.dat	1
21	Unknown	0	1	1407E98-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E98-001A <D>.dat	1
22	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
23	Unknown	0	1	1408056-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408056-001A <D>.dat	1
24	Unknown	0	1	1408056-001AMS	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408056-001A MS <D>.dat	1
25	Unknown	0	1	1408056-001AMSD	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408056-001A MSD <D>.dat	1
26	Unknown	0	1	1408056-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408056-002A <D>.dat	1
27	Unknown	0	1	1408056-003A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408056-003A <D>.dat	1
28	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

✓ 9/5/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1508**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\080414\Paraffin 08-04-14 9-03-50 AM.dat
Aquired: 8/4/2014 9:12:44 AM



FID Results

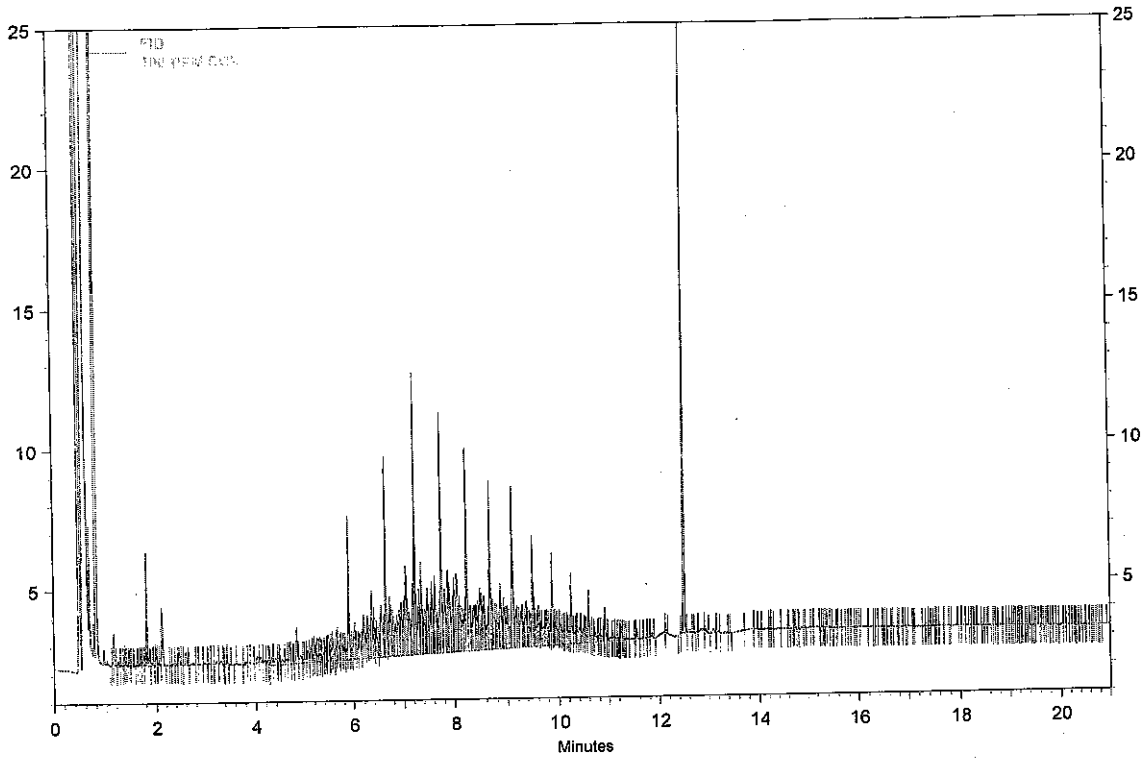
Name	Retention Time	Area	ug/ml
C08	1.36	58710	0.000
C10	4.82	70960	0.000
C12	6.63	69864	0.000
C14	7.74	68789	0.000
C16	8.67	67318	0.000
C18	9.49	66036	0.000
C20	10.23	66425	0.000
C22	10.92	64471	0.000
C24	11.54	64916	0.000
C26	12.13	67623	0.000
C28	12.67	69790	0.000
C30	13.18	68995	0.000
C32	13.66	62051	0.000
C34	14.25	48695	0.000
C36	15.03	40702	0.000
C38	16.12	36582	0.000
C40	17.68	9313	0.000

Analyst BW

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-04-14 9-49-35 AM.dat
Aquired: 8/4/2014 9:53:15 AM



FID Results

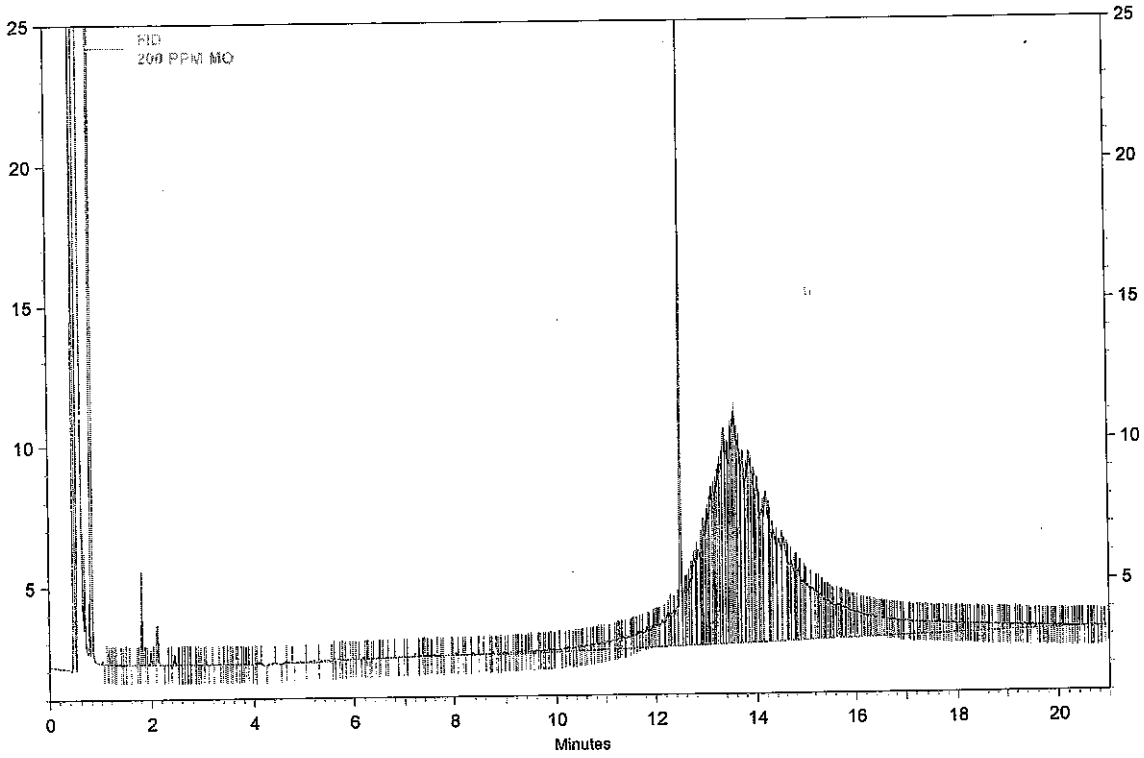
Name	Retention Time	Area	ug/ml
DNOP	12.48	25175	9.602
DRO		331594	93.328
MRO		4050	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-04-14 10-14-37 AM.dat
Aquired: 8/4/2014 10:23:43 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	39495	14.977
DRO		47058	14.450
MRO		664986	244.785

Analyst BN

Reviewed By

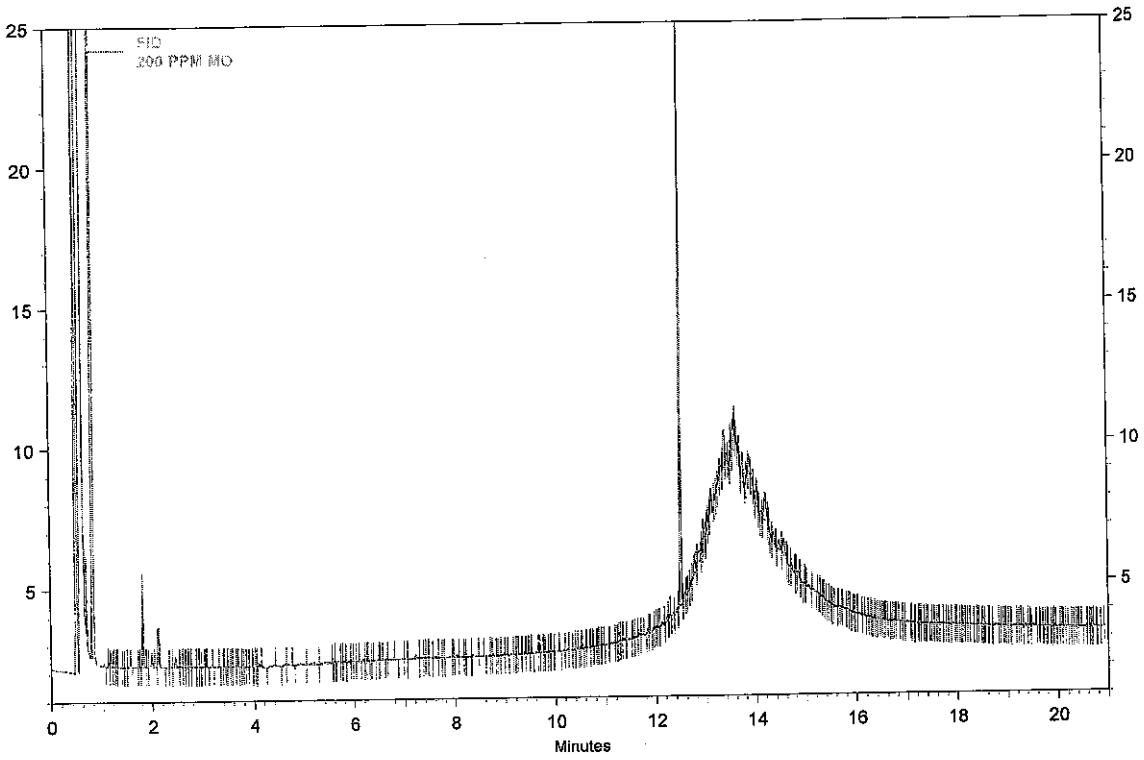
RR any samples with MO hits

RR

14.977
- 11.844
3.133
x 44.785
247.918
200
123.959 X ✓ x100

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-04-14 10-14-37 AM.dat
Aquired: 8/4/2014 10:23:43 AM



FID Results

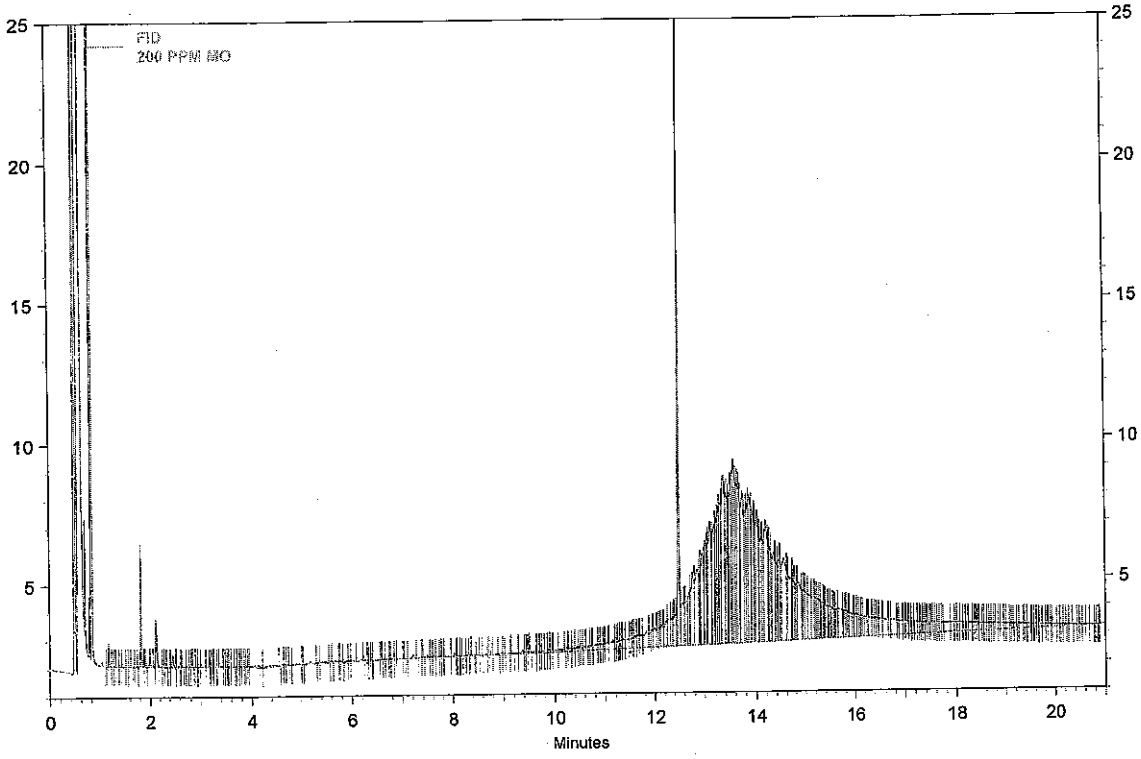
Name	Retention Time	Area	ug/ml
DNOP	12.48	31149	11.844
DRO		7578	3.613
MRO		32153	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-04-14 1-53-36 PM.dat
Aquired: 8/4/2014 1:58:04 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	31389	11.934
DRO		39203	12.291
MRO		551414	198.714

Analyst BN

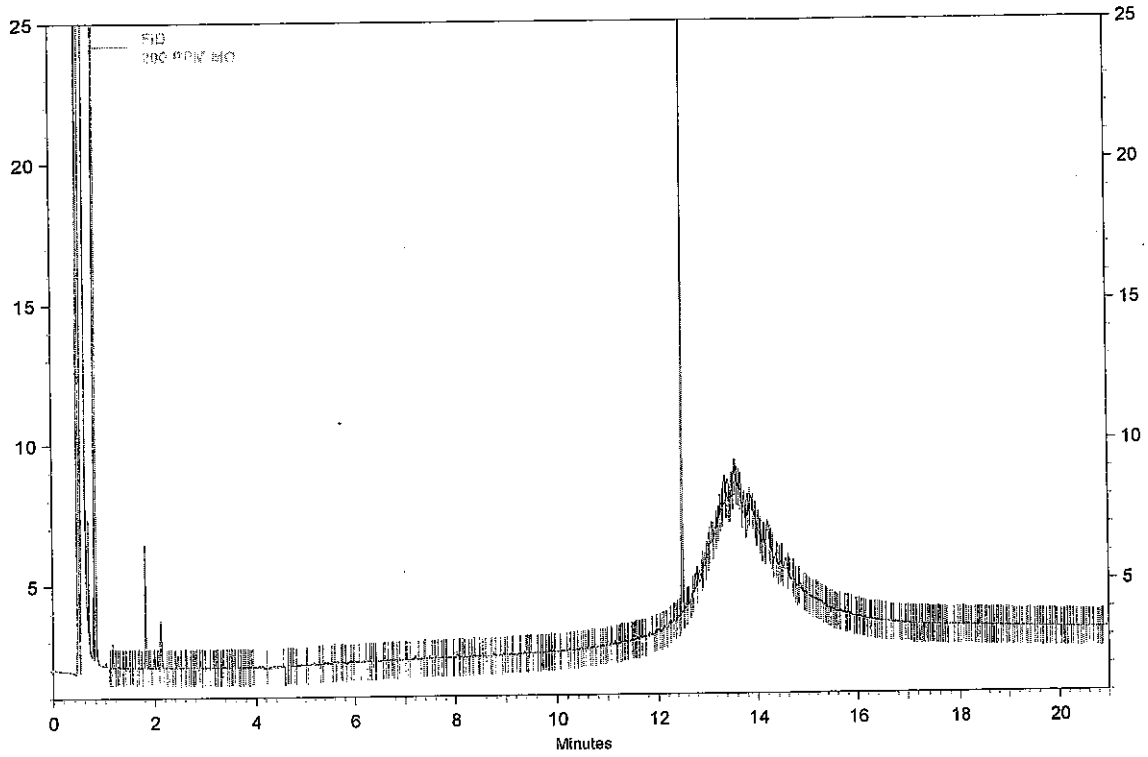
Reviewed By

all prior samples no MO hits, reporting.

11.934 ✓
−10.025
1.909
f198.714
200.623 x100
200
= 100.315% ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-04-14 1-53-36 PM.dat
Aquired: 8/4/2014 1:58:04 PM



FID Results

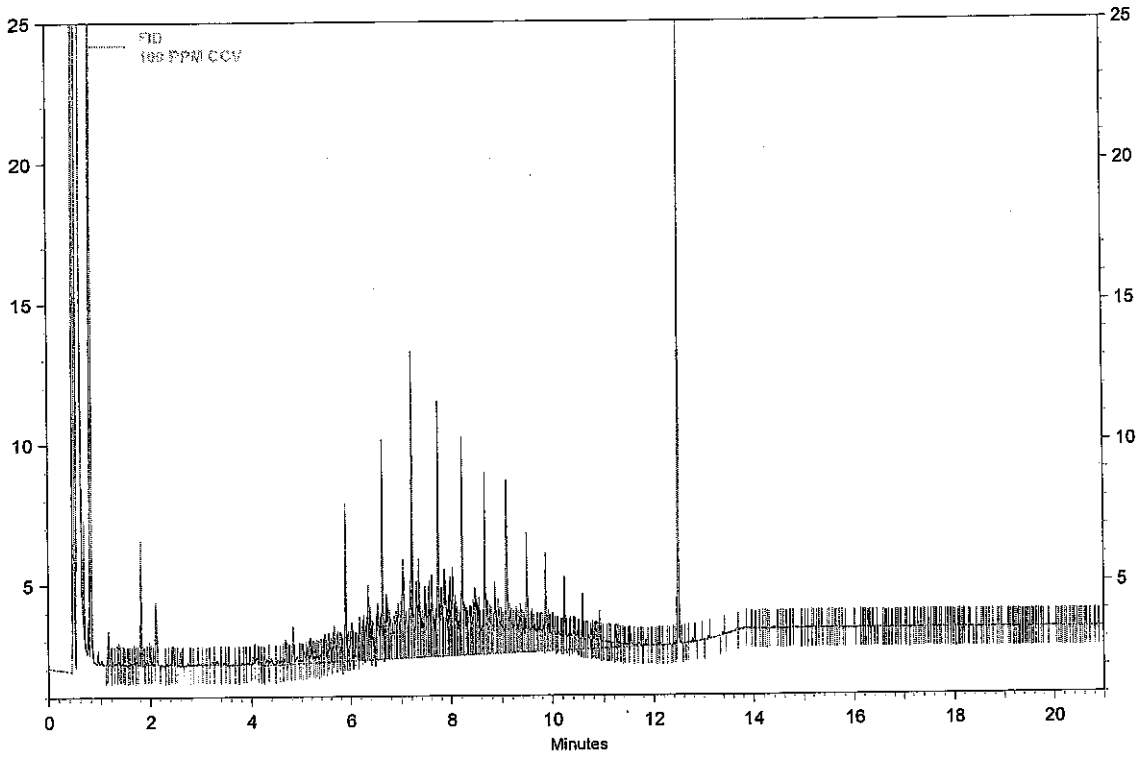
Name	Retention Time	Area	ug/ml
DNOP	12.48	26303	10.025
DRO		7033	3.463
MRO		24486	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-04-14 7-24-46 PM.dat
Aquired: 8/4/2014 7:33:52 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	24676	9.415
DRO		369003	103.799
MRO		3050	0.000

Analyst BN

Reviewed By

8015D DRO
Calibration Summary

Instrument: FID #2 Date: 7.23.14

Method: 8015D

Calibration Name: DRO FID#2 072314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	NO ☐	☒	
MRO	☒	☐	NO ☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: [signature]

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

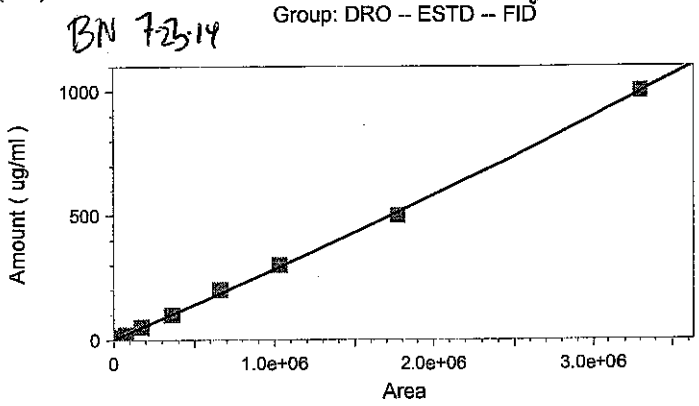
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000274651 RF StDev: 2.91501e-005 RF %RSD: 10.6135
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.41606e-012x^2 + 0.000274030x + 1.53570
Goodness of fit (r^2): 0.999483

√ JN 7/24/14

BN 7-25-14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	19249	37000	77990	176595	362975
RF	0.000207803 00275339	0.00027027027 027027	0.000256443133 735094	0.000283133724 057873	0.0002755010 67566637
Last Area					
Residual	-2.81362	-1.68632	-2.95847	-0.190445	-2.11047
Rep StDev					
Rep %RSD					
Rep 1 Area	19249	37000	77990	176595	362975
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 9:33:09 AM	7/24/2014 9:33:49 AM	7/24/2014 9:34:17 AM	7/24/2014 9:34:37 AM	7/24/2014 9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	661154	1031177	1771808	3299464
RF	0.000302501	0.00029092968	0.000282197619	0.000303079530
	383943832	5204383	606639	493438
Last Area				
Residual	13.6096	6.94213	-13.4843	2.69196
Rep StDev				
Rep %RSD				
Rep 1 Area	661154	1031177	1771808	3299464
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

Calibration Report

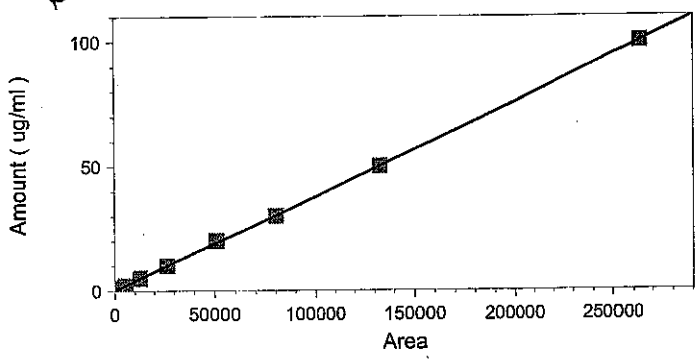
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000445118 RF StDev: 0.000187053 RF %RSD: 42.0233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.56822e-011x^2 + 0.000374300x + 0.169423
Goodness of fit (r^2): 0.999927

1 NR 7/24/14

BR 7-24-14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	424	2502	5305	12896	26592
RF	0.000943396	0.00039968025	0.000377002827	0.000387717121	0.0003760529
	226415094	5795364	521206	588089	48255114
Last Area					
Residual	0.0718708	-0.10602	-0.155527	0.000994814	-0.133901
Rep StDev					
Rep %RSD					
Rep 1 Area	424	2502	5305	12896	26592
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\072314	ta\072314	a\072314	a\072314	ata\072314
	CRV\4	CRV\10	CRV\20	CRV\50	CRV\100
	ppm07-23-14	ppm07-23-14	ppm07-23-14	ppm07-23-14	ppm07-23-14
	9-10-47	9-42-20 AM.dat	10-13-24	10-44-44	11-16-20
	AM.dat		AM.dat	AM.dat	AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
	9:33:09 AM	9:33:49 AM	9:34:17 AM	9:34:37 AM	9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	51020	80114	132795	263699
RF	0.000392003	0.00037446638	0.000376520200	0.000379220247
	136025088	5400804	308747	327445
Last Area				
Residual	0.692965	-0.256753	-0.151152	0.0375213
Rep StDev				
Rep %RSD				
Rep 1 Area	51020	80114	132795	263699
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

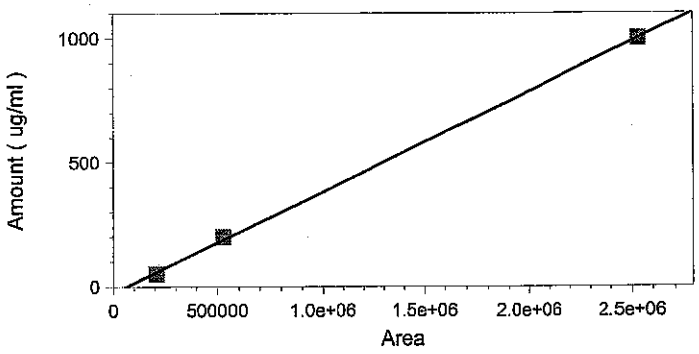
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:44 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000338253 RF StDev: 8.46905e-005 RF %RSD: 25.0376
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000405653x - 24.9682
Goodness of fit (r^2): 0.999614

BN 7-23-14 Group: MRO -- ESTD -- FID

7/24/14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	207529	528224	2530354
RF	0.000240930 183251497	0.00037862724 9045859	0.000395201620 010481
Last Area			
Residual	-9.2165	10.6928	-1.47627
Rep StDev			
Rep %RSD			
Rep 1 Area	207529	528224	2530354
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO07-23-14 2-25-40 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO07-23-14 2-56-31 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO 07-23-14 3-27-33 PM.dat
Rep 1 Sample ID	50 ppm MO	200 ppm MO	1,000 ppm MO
Rep 1 Calib. Time	7/24/2014 9:36:57 AM	7/24/2014 9:37:16 AM	7/24/2014 9:37:32 AM

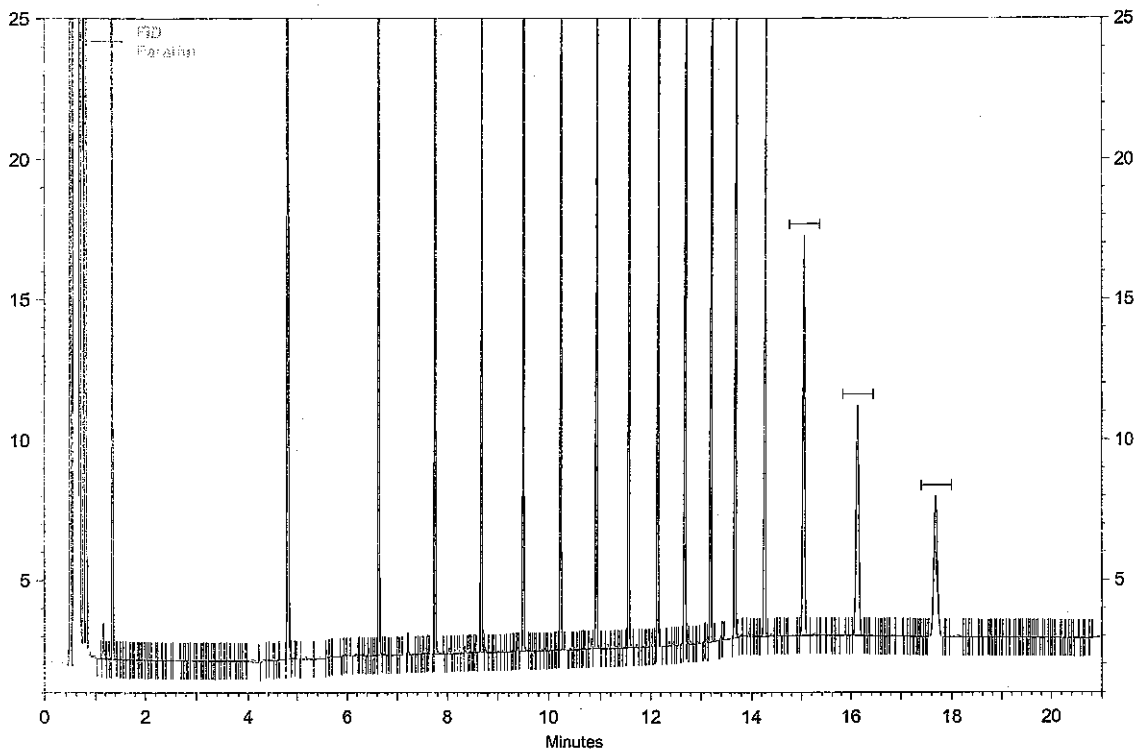
BN 7.23.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Parafiin <D>.dat	1
3	Unknown	0	1	4 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 ppm<D>.dat	1
4	Unknown	0	1	10 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 ppm<D>.dat	1
5	Unknown	0	1	20 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 ppm<D>.dat	1
6	Unknown	0	1	50 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm<D>.dat	1
7	Unknown	0	1	100 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ppm<D>.dat	1
8	Unknown	0	1	200 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm<D>.dat	1
9	Unknown	0	1	300 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 ppm<D>.dat	1
10	Unknown	0	1	500 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 ppm<D>.dat	1
11	Unknown	0	1	1,000 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm<D>.dat	1
12	Unknown	0	1	100 ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO<D>.dat	1
14	Unknown	0	1	200 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO<D>.dat	1
15	Unknown	0	1	1,000 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO <D>.dat	1
16	Unknown	0	1	200 MO ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 MO ICV <D>.dat	1

✓ 7/24/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1506**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\Parafiin 07-23-14 8-39-58 AM.dat
Aquired: 7/23/2014 8:49:35 AM



FID Results

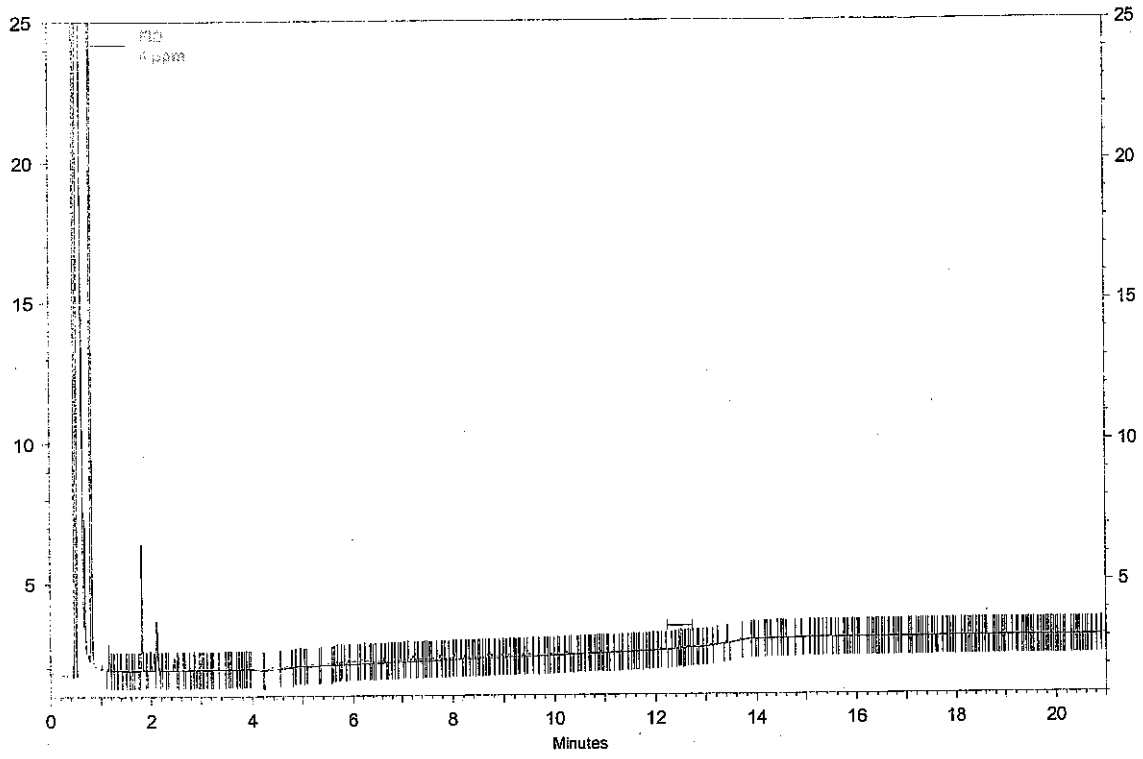
Name	Retention Time	Area	ug/ml
C08	1.35	66298	0.000
C10	4.82	82094	0.000
C12	6.63	79168	0.000
C14	7.75	77216	0.000
C16	8.67	75823	0.000
C18	9.49	74756	0.000
C20	10.24	75229	0.000
C22	10.92	74495	0.000
C24	11.55	74291	0.000
C26	12.13	77121	0.000
C28	12.67	78639	0.000
C30	13.18	76874	0.000
C32	13.66	64338	0.000
C34	14.25	47500	0.000
C36	15.04	36128	0.000
C38	16.13	29475	0.000
C40	17.69	6099	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **4 ppm** Data Descritpion: **SV109-1510**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat
Aquired: 7/23/2014 9:20:57 AM



FID Results

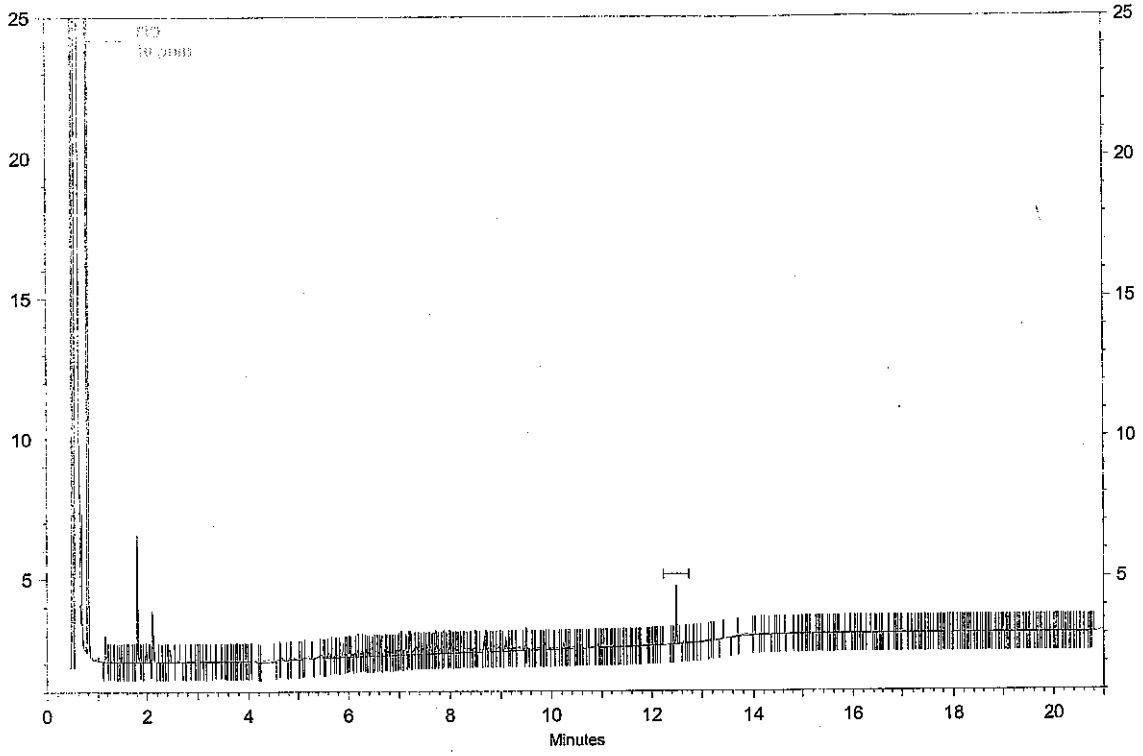
Name	Retention Time	Area	ug/ml
DNOP	12.48	424	0.400 CAL
DRO		19249	4.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **10 ppm** Data Descritpion: **SV109-1511**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat
Aquired: 7/23/2014 9:52:12 AM



FID Results

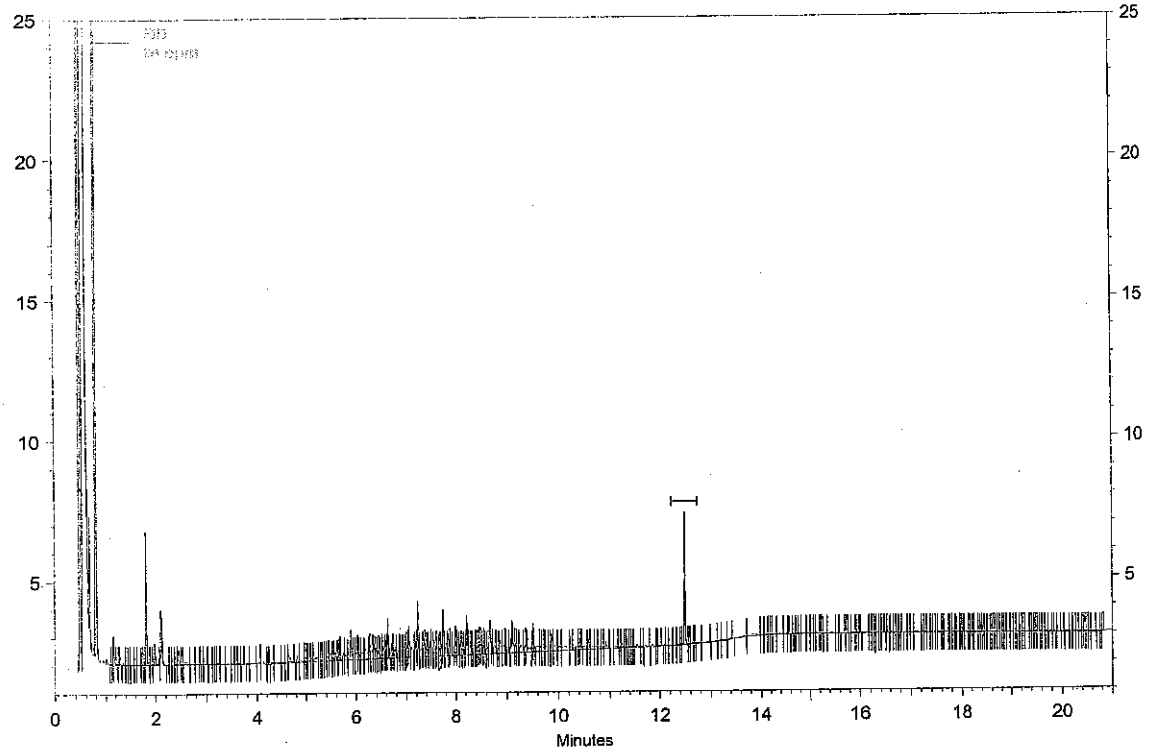
Name	Retention Time	Area	ug/ml
DNOP	12.48	2502	1.000 CAL
DRO		37000	10.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **5** User: **System**
Sample ID: **20 ppm** Data Descritpion: **SV109-1512**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat
Aquired: 7/23/2014 10:23:31 AM



FID Results

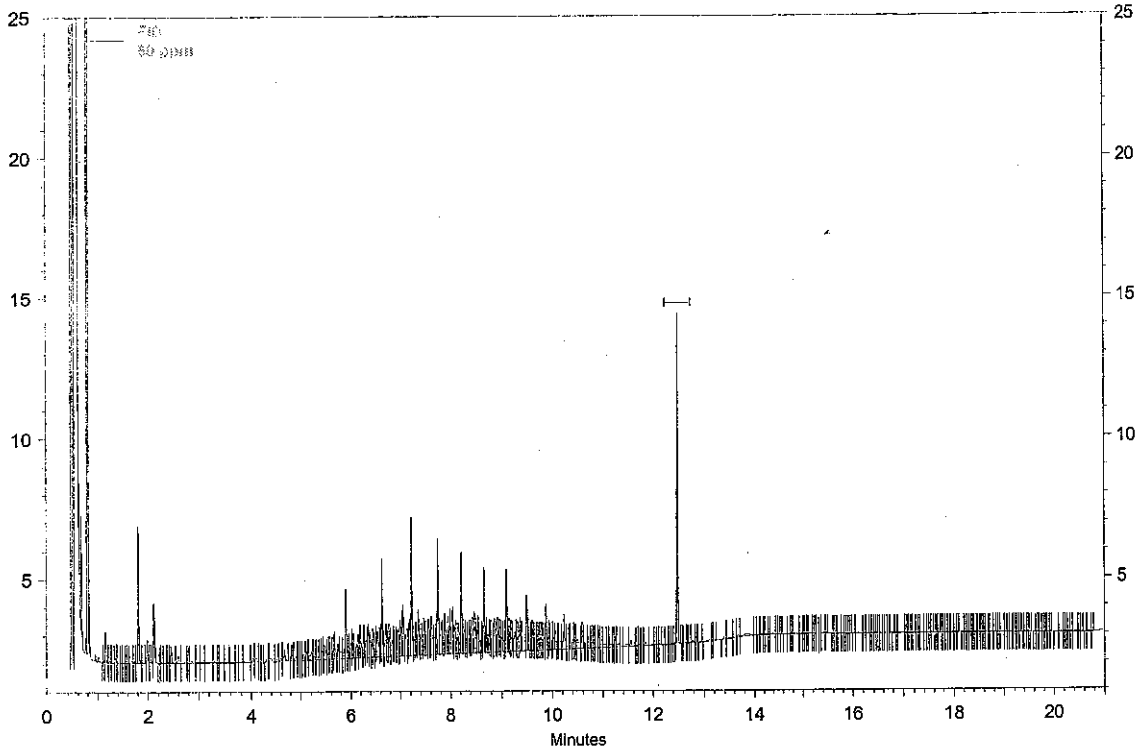
Name	Retention Time	Area	ug/ml
DNOP	12.49	5305	2.000 CAL
DRO		77990	20.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **6** User: **System**
Sample ID: **50 ppm** Data Descritpion: **SV109-1513**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat
Aquired: 7/23/2014 10:54:58 AM



FID Results

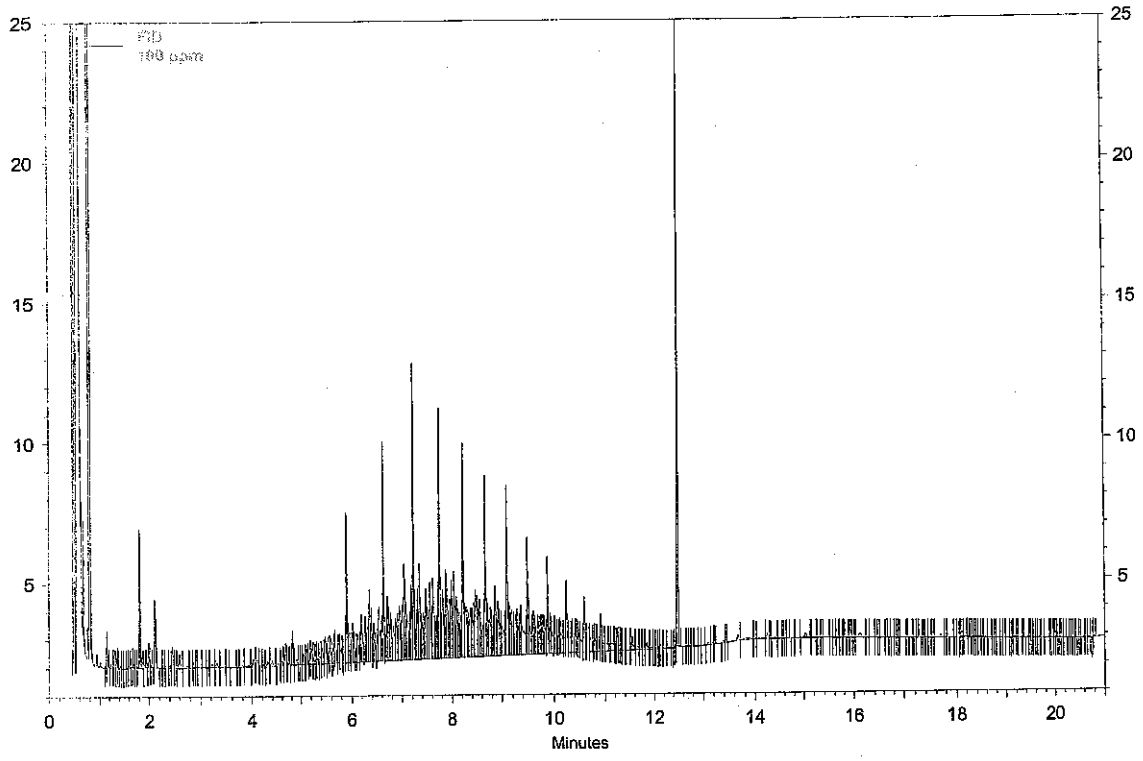
Name	Retention Time	Area	ug/ml
DNOP	12.48	12896	5.000 CAL
DRO		176595	50.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **7** User: **System**
Sample ID: **100 ppm** Data Descritpion: **SV109-1514**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Aquired: 7/23/2014 11:26:15 AM



FID Results

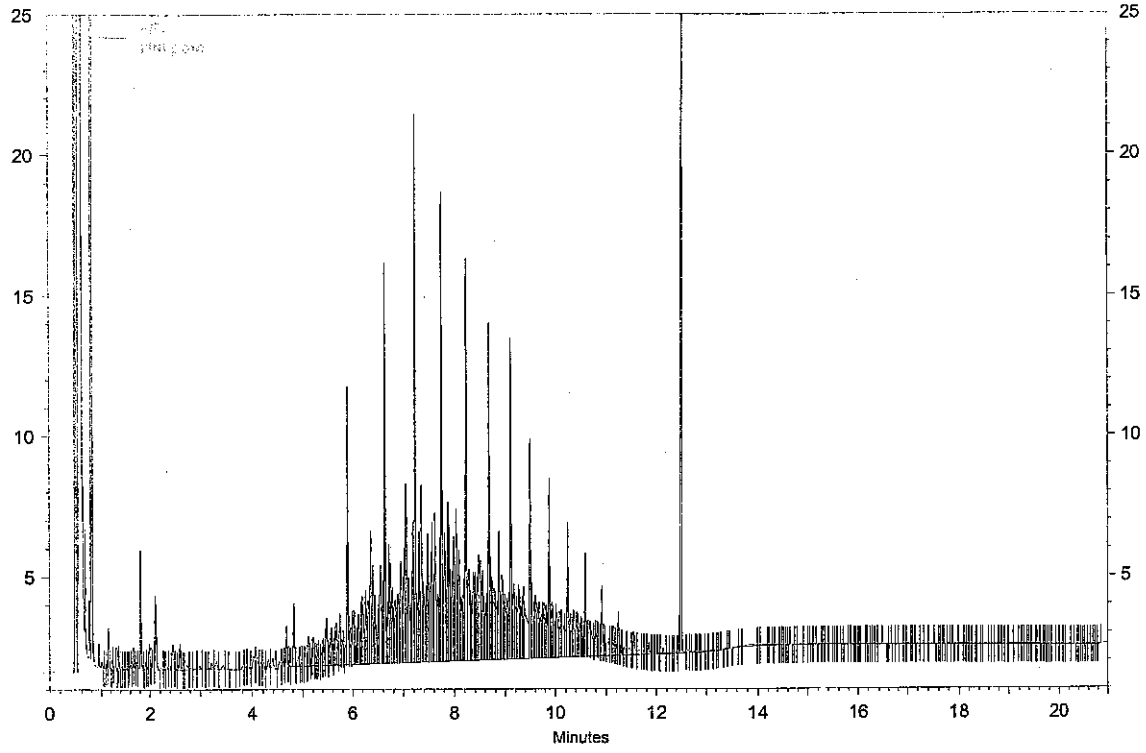
Name	Retention Time	Area	ug/ml
DNOP	12.48	26592	10.000 CAL
DRO		362975	100.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **8** User: **System**
Sample ID: **200 ppm** Data Descritpion: **SV109-1515**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat
Aquired: 7/23/2014 11:57:51 AM



FID Results

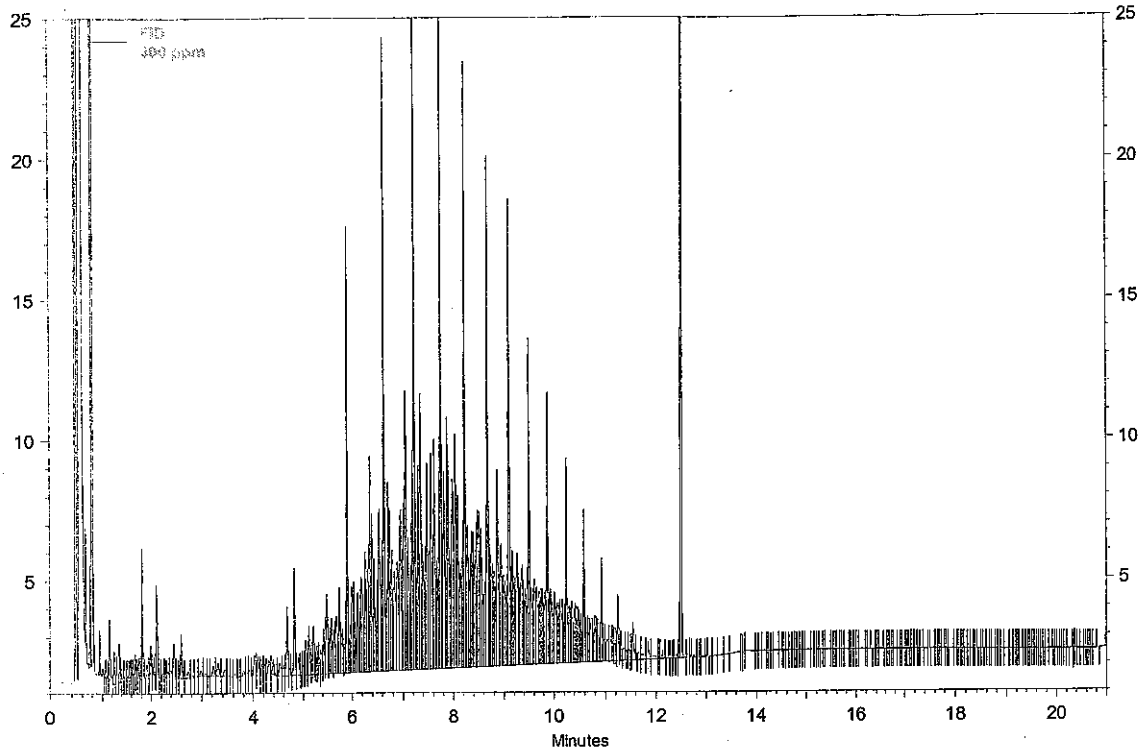
Name	Retention Time	Area	ug/ml
DNOP	12.48	51020	20.000 CAL
DRO		661154	200.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **9** User: **System**
Sample ID: **300 ppm** Data Descritpion: **SV109-1516**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat
Aquired: 7/23/2014 12:29:45 PM



FID Results

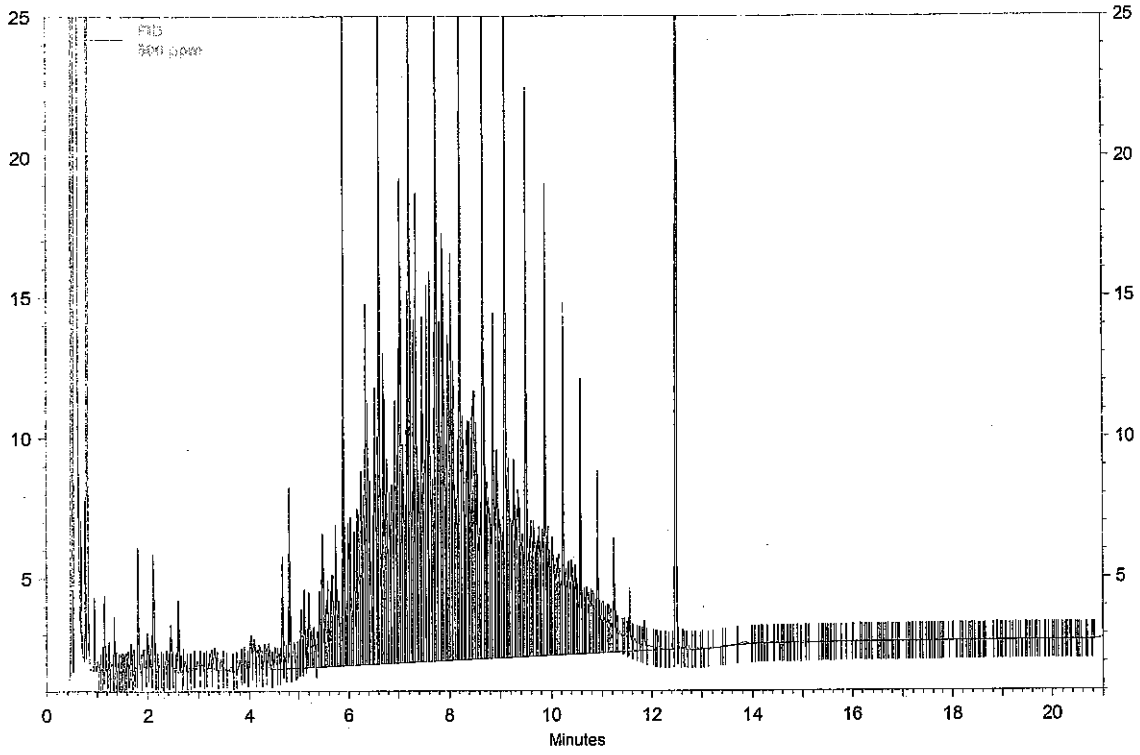
Name	Retention Time	Area	ug/ml
DNOP	12.49	80114	30.000 CAL
DRO		1031177	300.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **10** User: **System**
Sample ID: **500 ppm** Data Descritpion: **SV109-1517**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat
Aquired: 7/23/2014 1:01:34 PM



FID Results

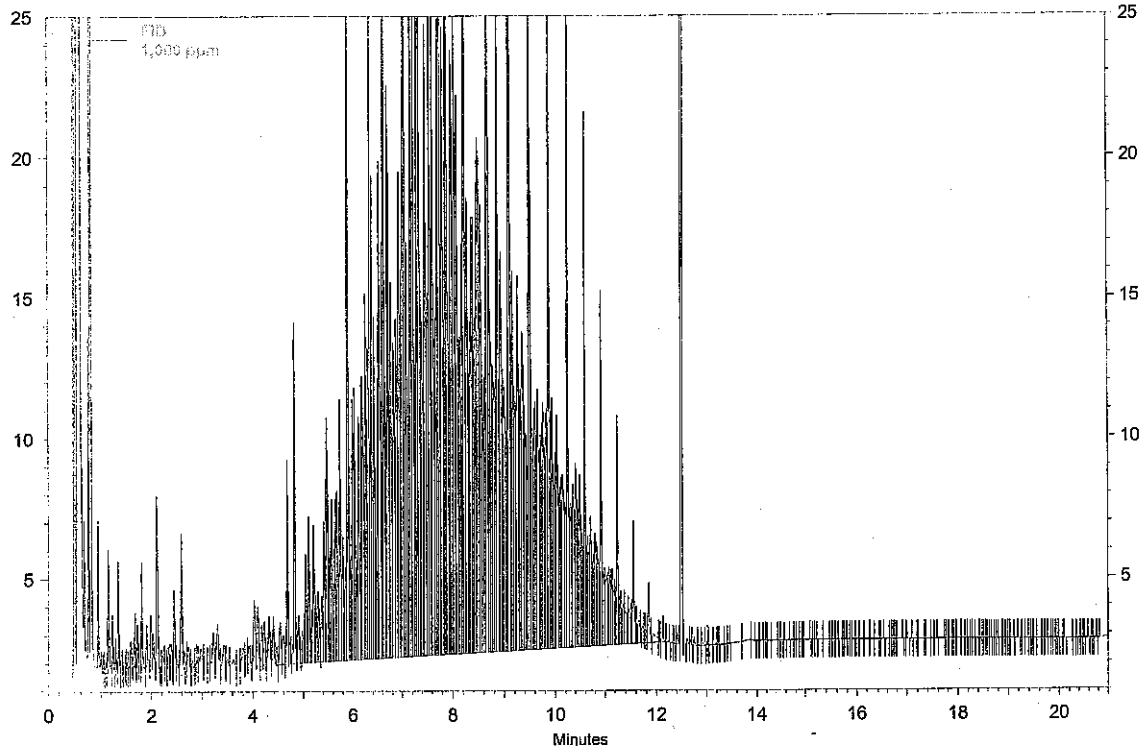
Name	Retention Time	Area	ug/ml
DNOP	12.49	132795	50.000 CAL
DRO		1771808	500.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1,000 ppm** Data Descritpion: **SV109-1518**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Aquired: 7/23/2014 1:33:07 PM



FID Results

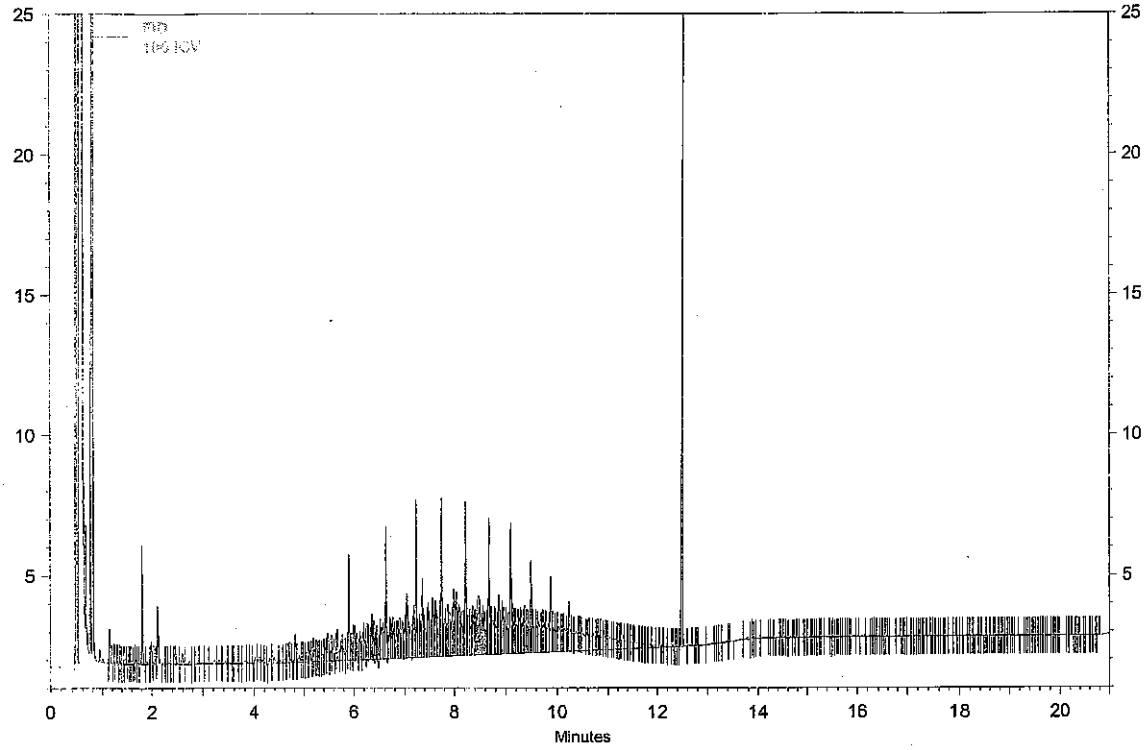
Name	Retention Time	Area	ug/ml
DNOP	12.49	263699	100.000 CAL
DRO		3299464	1000.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **12** User: **System**
Sample ID: **100 ICV** Data Descritpion: **SV109-1519**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ICV 07-23-14 1-54-20 PM.dat
Aquired: 7/23/2014 2:04:17 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	30115	11.456
DRO		324518	91.350
MRO		3308	0.000

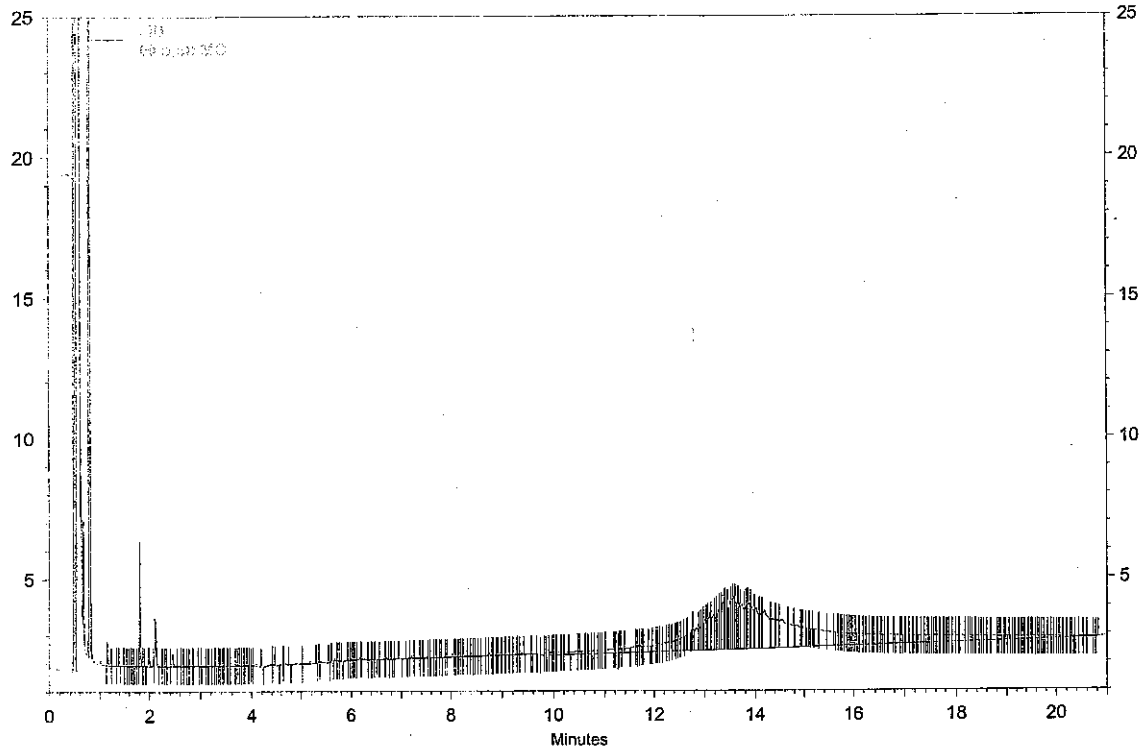
Analyst BN

Reviewed By JL

±20%

Instument: **FID2 (Offline)** Vial #: **13** User: **System**
Sample ID: **50 ppm MO** Data Descritpion: **SV109-1520**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO07-23-14 2-25-40 PM.dat
Aquired: 7/23/2014 2:35:13 PM



FID Results

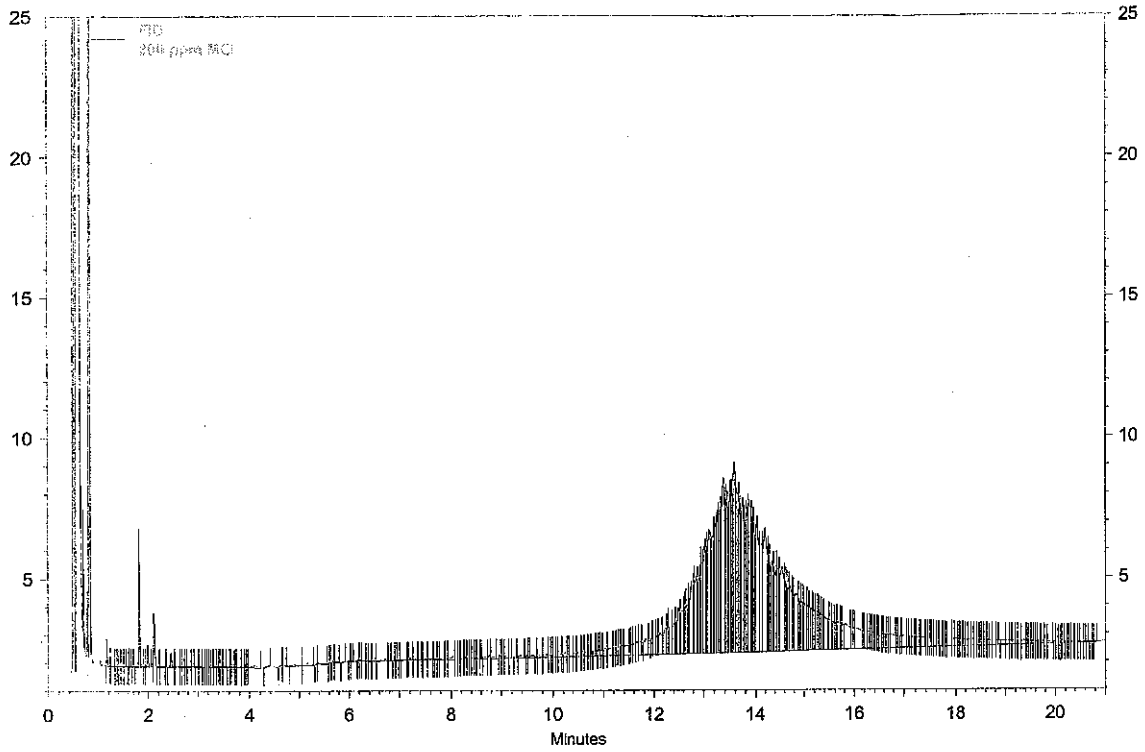
Name	Retention Time	Area	ug/ml
MRO		207529	50.000 CAL

Analyst BM

Reviewed By

Instument: **FID2 (Offline)** Vial #: **14** User: **System**
Sample ID: **200 ppm MO** Data Descritpion: **SV109-1521**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO07-23-14 2-56-31 PM.dat
Aquired: 7/23/2014 3:06:11 PM



FID Results

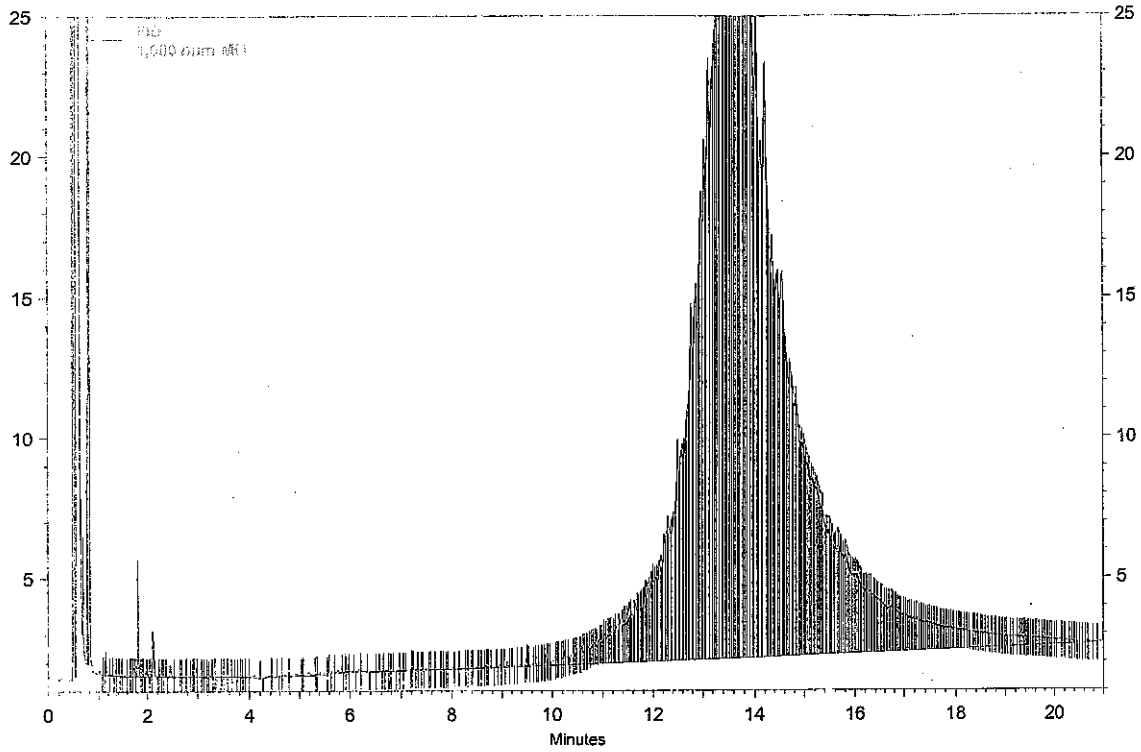
Name	Retention Time	Area	ug/ml
MRO		528224	200.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1,000 ppm MO** Data Descritpion: **SV109-1522**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO 07-23-14 3-27-33 PM.dat
Aquired: 7/23/2014 3:37:46 PM



FID Results

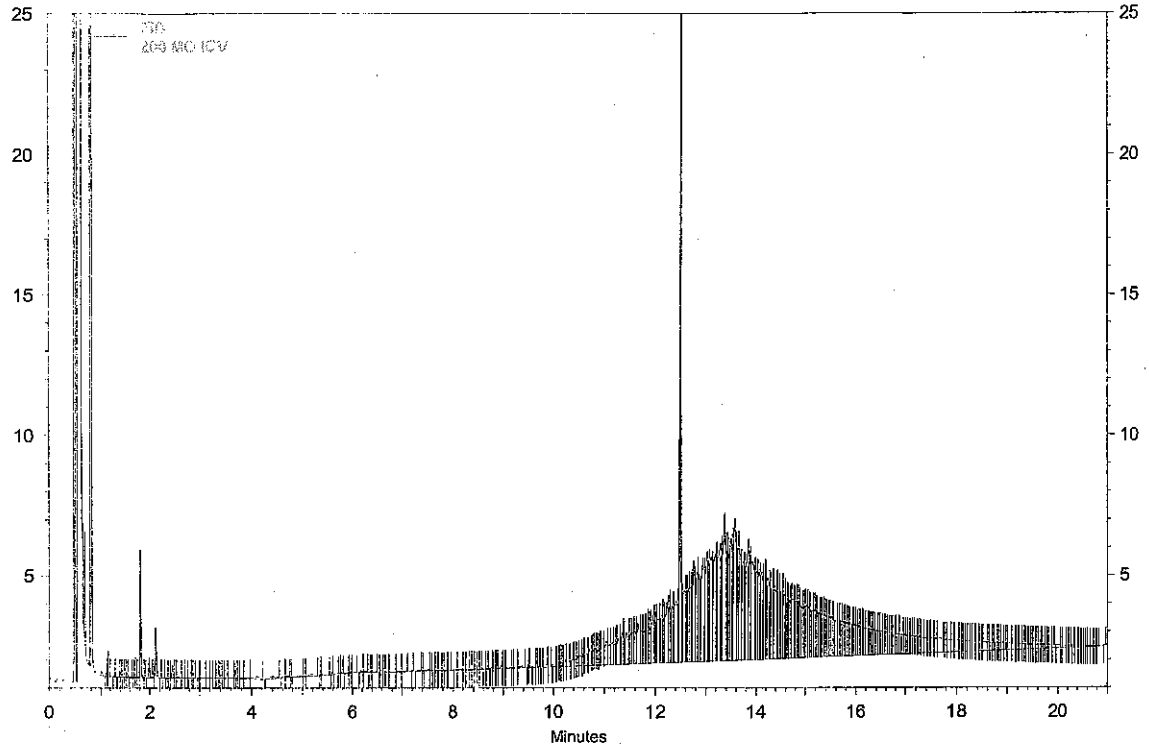
Name	Retention Time	Area	ug/ml
MRO		2530354	1000.000 CAL

Analyst BN

Reviewed By

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 MO ICV** Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	35885	13.621
DRO		91522	26.686
MRO		538883	193.631

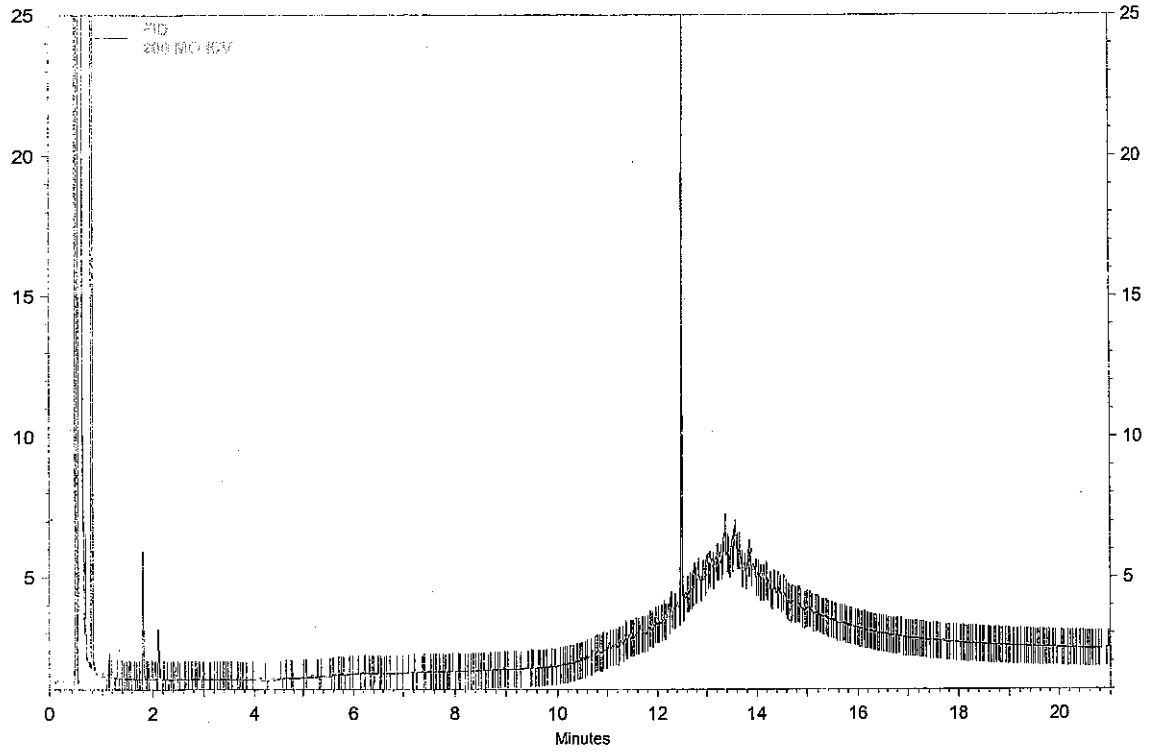
Analyst BN

Reviewed By JE

13.621
-10.268
3.353
+193.681
196.984
200 x100
=98.492% ✓
+20%

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 MO ICV** Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	26950	10.268
DRO		10198	4.331
MRO		21952	0.000

Analyst _____

Reviewed By _____

JNB 8/5/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407F02**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407F02

Lab ID: 1407F02-001
Client Sample ID: FFOR-CF-0041

Collection Date: 7/31/2014 10:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/05/2014							
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Toluene	2.2	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Ethylbenzene	8.0	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Methyl tert-butyl ether (MTBE)	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2,4-Trimethylbenzene	24	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,3,5-Trimethylbenzene	6.1	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2-Dichloroethane (EDC)	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2-Dibromoethane (EDB)	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Naphthalene	15	0.64		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Acetone	0.60	4.8	J	mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Bromobenzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Bromodichloromethane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Bromoform	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Bromomethane	ND	0.96		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
2-Butanone	0.65	3.2	J	mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Carbon disulfide	ND	3.2		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Carbon tetrachloride	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Chlorobenzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Chloroethane	ND	0.64		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Chloroform	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Chloromethane	ND	0.96		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
2-Chlorotoluene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
4-Chlorotoluene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
cis-1,2-DCE	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
cis-1,3-Dichloropropene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2-Dibromo-3-chloropropane	ND	0.64		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Dibromochloromethane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Dibromomethane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2-Dichlorobenzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,3-Dichlorobenzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,4-Dichlorobenzene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
Dichlorodifluoromethane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,1-Dichloroethane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,1-Dichloroethene	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,2-Dichloropropane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,3-Dichloropropane	ND	0.32		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
2,2-Dichloropropane	ND	0.64		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM
1,1-Dichloropropene	ND	0.64		mg/Kg-dry	10	R20359	8/4/2014 12:53:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407F02**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407F02
Project: Kirtland AFB

Lab ID: 1407F02-002 **Collection Date:**
Client Sample ID: MEOH BLANK **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/05/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Toluene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Naphthalene	0.011	0.10	J	mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Acetone	ND	0.75		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Bromoform	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Bromomethane	ND	0.15		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
2-Butanone	ND	0.50		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Chloroethane	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Chloroform	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Chloromethane	ND	0.15		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407F02**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407F02

Comment: DUE 08/05/2014

EPA METHOD 8260B: VOLATILES Analyst: **KJH**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
2-Hexanone	ND	0.50		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Methylene chloride	ND	0.15		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
n-Butylbenzene	0.0096	0.15	J	mg/Kg	1	R20359	8/4/2014 1:49:37 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Styrene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Surr: Dibromofluoromethane	88.8	70-130		%REC	1	R20359	8/4/2014 1:49:37 PM
Surr: 1,2-Dichloroethane-d4	85.2	70-130		%REC	1	R20359	8/4/2014 1:49:37 PM
Surr: Toluene-d8	88.6	70-130		%REC	1	R20359	8/4/2014 1:49:37 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%REC	1	R20359	8/4/2014 1:49:37 PM

Comment: DUE 08/05/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **KJH**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20359	8/4/2014 1:49:37 PM
Surr: BFB	113	61.2-137		%REC	1	R20359	8/4/2014 1:49:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

rian Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

mpleList: C:\VarianWS\070614v.smp

eated: Sun Jul 06 15:00:06 2014
dified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection	Notes
1	b1	below	
	Notes	All injections contain V-52-0465	
2	b2	none	
3	b3	none	tune@4:10
4	25ng annex crv	below	
	Notes	V-11-8034	
5	50ng annex crv	below	
	Notes	V-11-8034	
6	100ng annex crv	below	
	Notes	V-11-8034	
7	150ng annex crv	below	
	Notes	V-11-8034	
8	227.27ng annex crv	below	
	Notes	V-11-8034	
9	500ng annex crv	below	
	Notes	V-11-8034	
10	750ng annex crv	below	
	Notes	V-11-8034	
11	b4	none	
12	b5	none	
13	227.27ng annex icv	below	
	Notes	V-11-8035	@ 8:52
14	b6	none	
15	b7	none	tune@9:40
16	0.25ug gro crv	below	
	Notes	V-18-2047	
17	0.5ug gro crv	below	
	Notes	V-18-2047	
18	1ug gro crv	below	
	Notes	V-18-2047	
19	2.5ug gro crv	below	
	Notes	V-18-2047	
20	5ug gro crv	below	
	Notes	V-18-2047	
21	10ug gro crv	below	
	Notes	V-18-2047	
22	b8	none	
23	20ug gro crv	below	
	Notes	V-18-2047	
24	b9	none	
25	40ug gro crv	below	
	Notes	V-18-2047	
26	b10	none	
27	b11	none	
28	2.5ug gro icv	below	
	Notes	V-18-2036	
29	b12	none	
30	crtm	below	
	Notes	V-18-1994	
31	crtm full	below	@5:15
	Notes	V-18-1781	
32	b13	none	
33			

Loaded By: [illegible] 7-6-14
1st Review By: [illegible] 7-7-14
QA'd By: ✓NB 7/8/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL= 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] NB7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

JB NB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

IS1 = Benzene-d5-, chloro- ☐

IS2 = BFB ☑

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14
7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

RA 7-7-14

NB 7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 7/7/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27 | 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

JJB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

Print Date: 07 Jul 2014 07:58:26

Calibration Curves Report

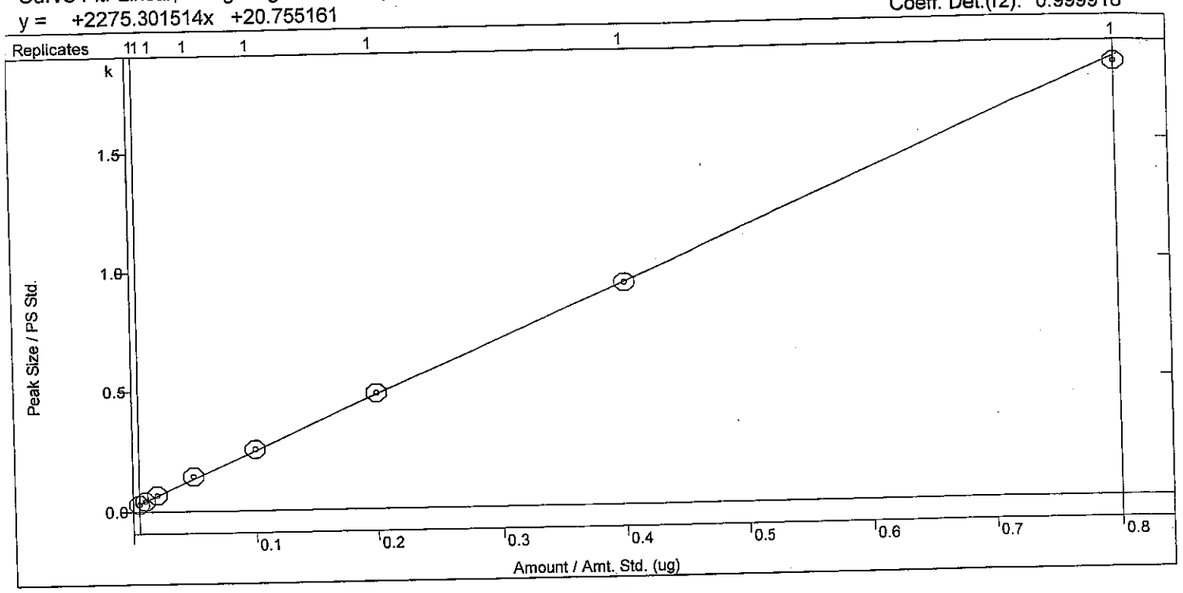
AT-7-14

Method:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
Recalc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
y = +2275.301514x +20.755161

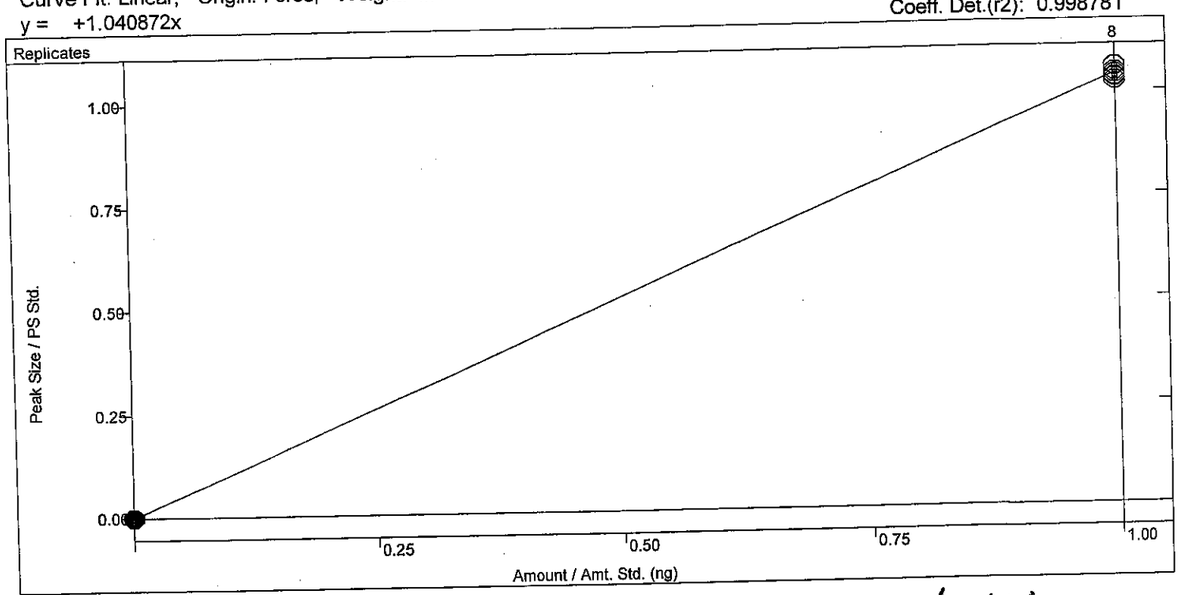
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

rian Star Workstation - Generic SampleList Mon Aug 04 08:48:17 2014

mpleList: C:\VarianWS\080114v.smp

eated: Fri Aug 01 08:33:12 2014
odified: Mon Aug 04 08:33:28 2014

****

Line	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time@7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By: 8-4-14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\080114v.rcl.

8260B/624
Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	K-hits UGL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ppl: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cc-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ppl: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : _____ and _____

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VQL: 22.6, 22.7 ns
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ A 8.4.14

KSH 8/4/14

Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

KSH 8/4/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JA 8.4.14

Internal Standard And RT Summary

8/4/2014 9:03
Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH

8/4/2014 9:04

Instrument Performance Check

8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

JH 8.4.14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

Analyst: KJH

JAF 9.4.14 KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

J 8.4.14

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\Val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

J- no hits on different crv.

J 08-4/14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

KSH 8/4/14

Analyst: KJH

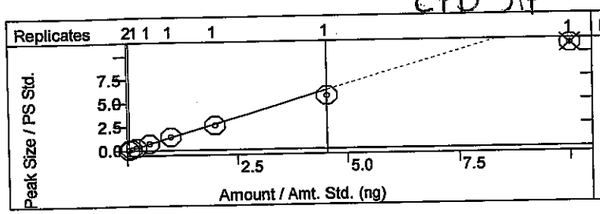
Calibration Curves Report

JA 8.4.14

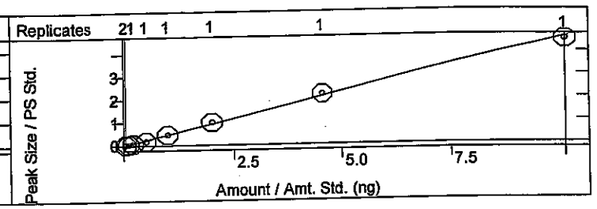
Method:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
y = +1.3682x -0.0093

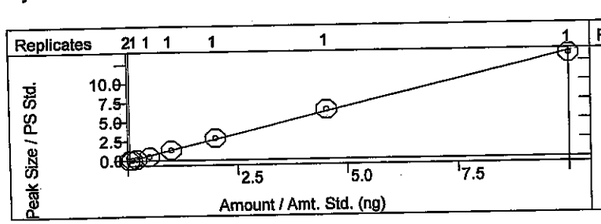
CPD fit



Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

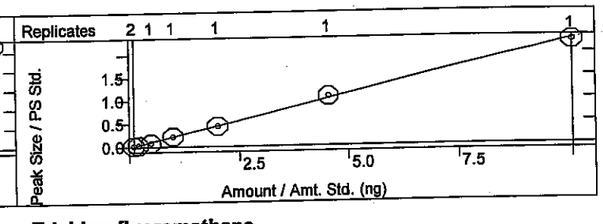


Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
y = +1.3683x -0.0361

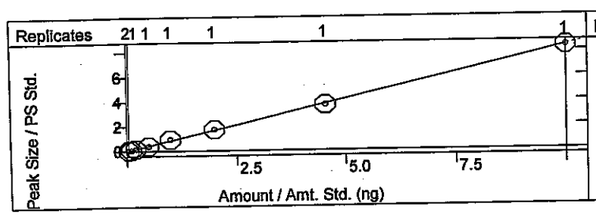


Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

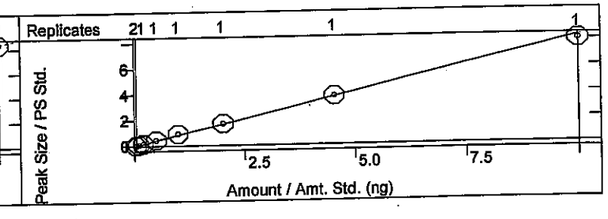
CPD fit



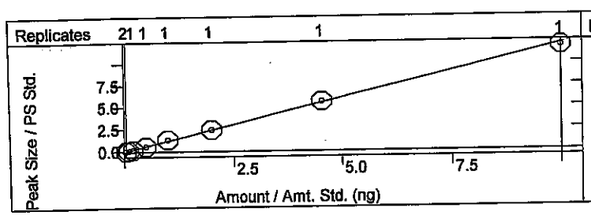
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032



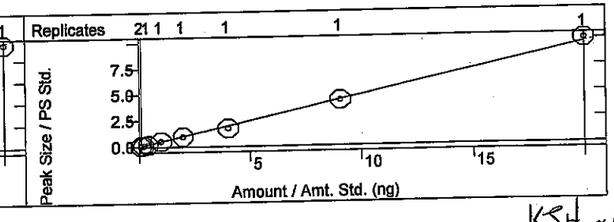
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242



Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



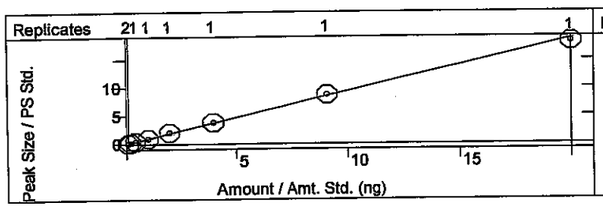
KSH 8/4/14

Calibration Curves Report

JH 8.4.14

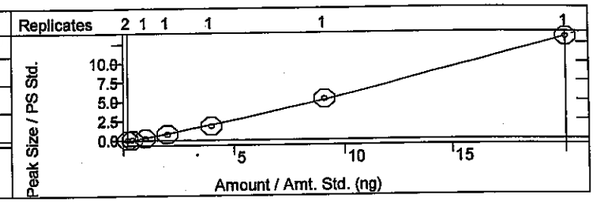
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX
Resp. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
y = +0.9341x +0.0209

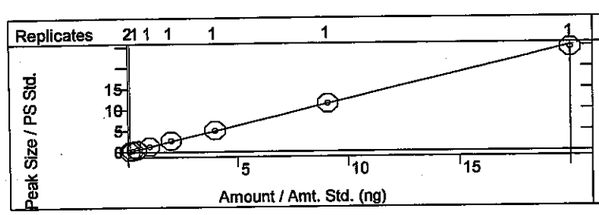


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

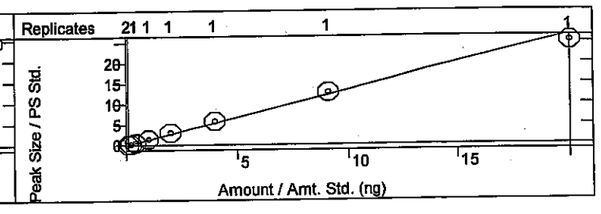
CPD 5.4



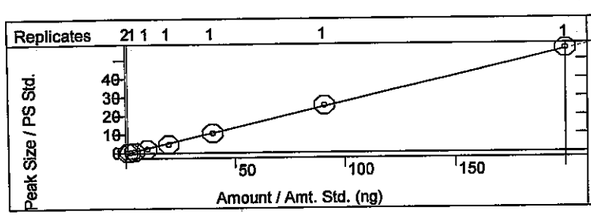
Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
y = +1.2503x +0.0152



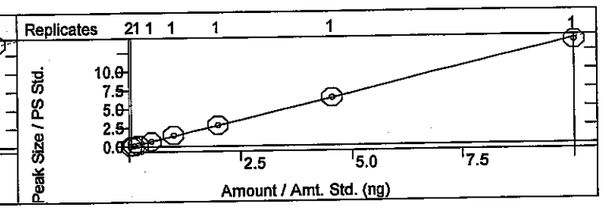
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



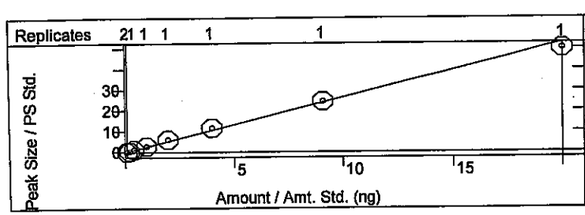
tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
y = +0.2763x -0.2051



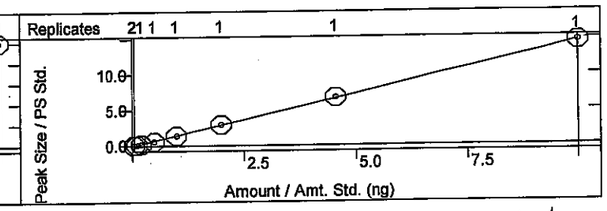
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
y = +2.6347x -0.0155



1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



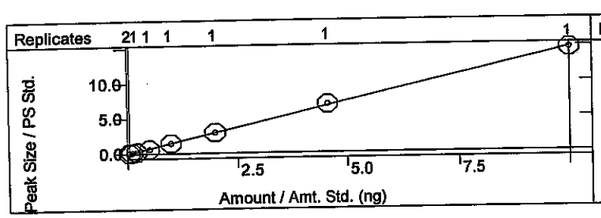
KSH 8/4/14

Calibration Curves Report

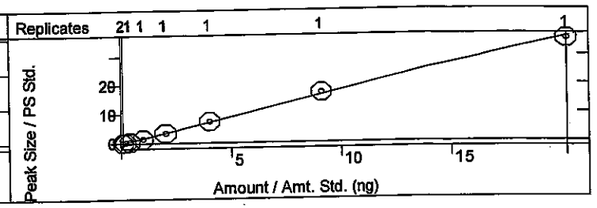
JA 8.4.14

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

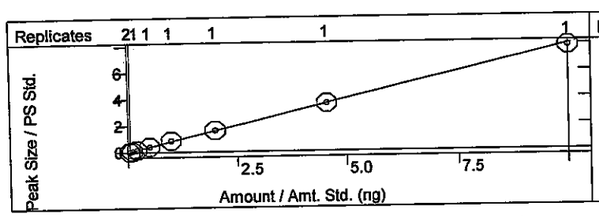
Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
y = +1.4799x -0.0278



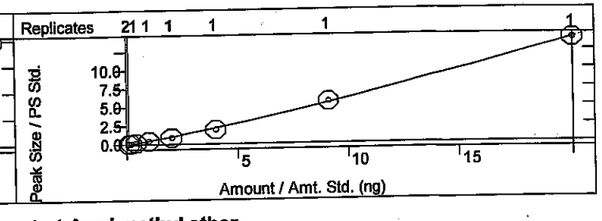
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



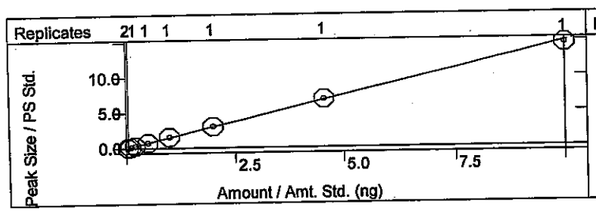
2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
y = +0.7967x +0.0095



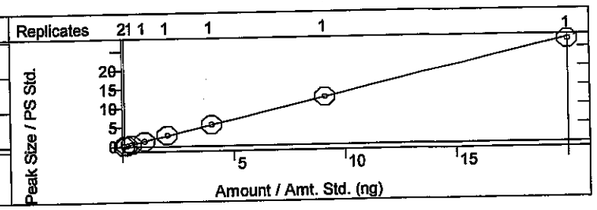
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



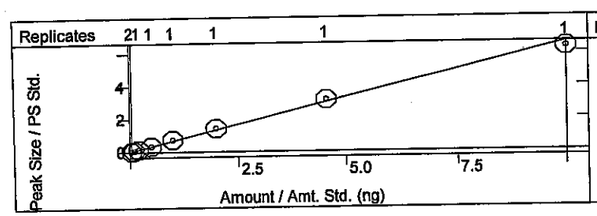
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
y = +1.4855x -0.0066



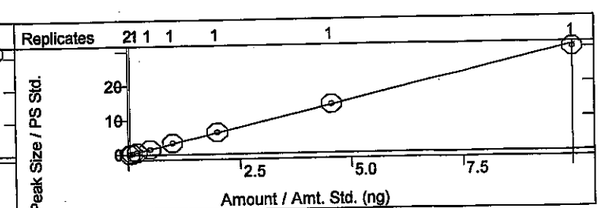
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

Calibration Curves Report

JA 8.4.14

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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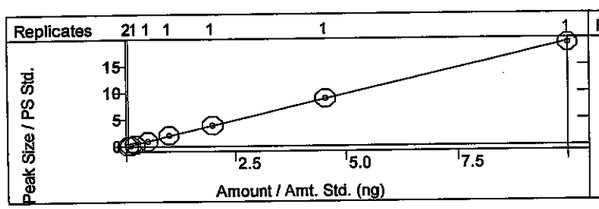
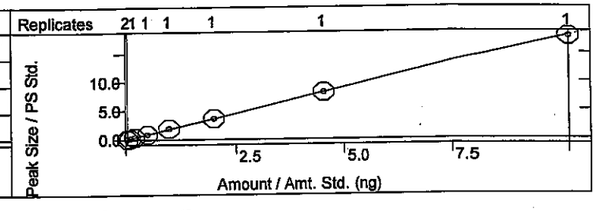
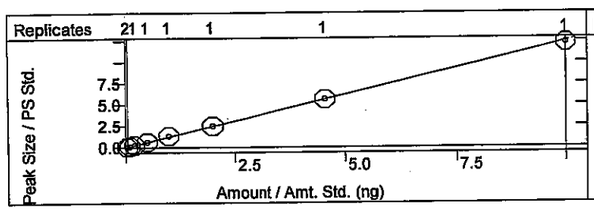
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
y = +1.9390x -0.0226



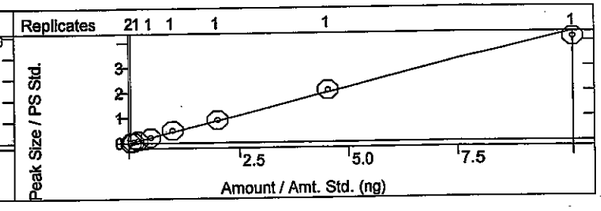
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



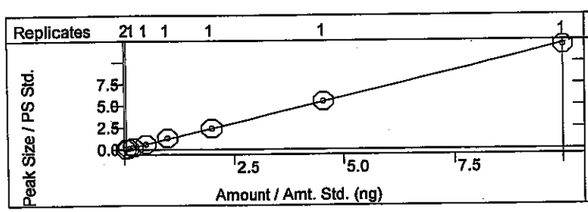
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
y = +1.2389x -0.0082



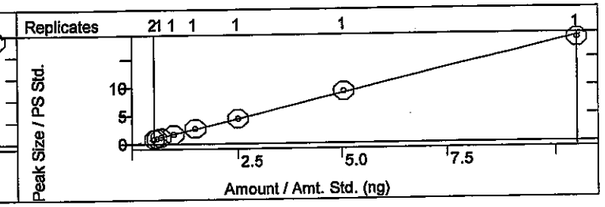
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



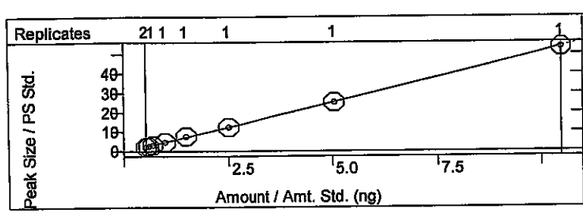
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
y = +1.2032x +0.0034



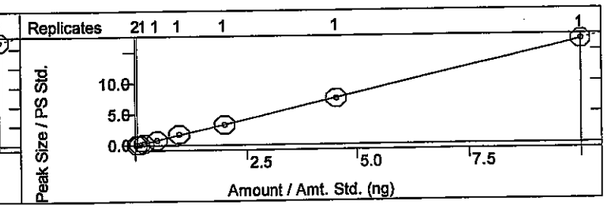
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



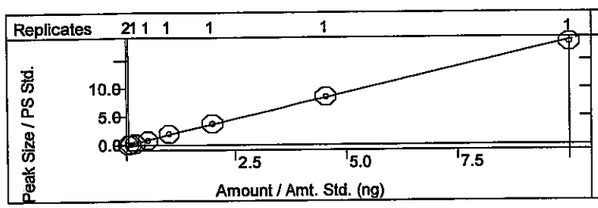
Calibration Curves Report

✓ Pg 8 - 4-14

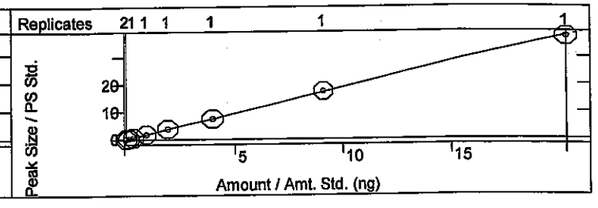
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

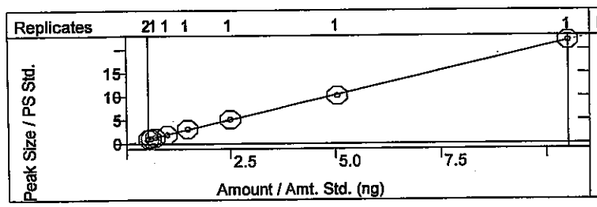
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
y = +1.8502x -0.0424



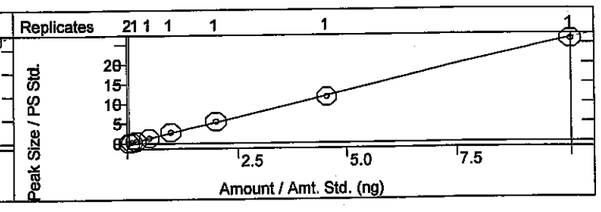
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



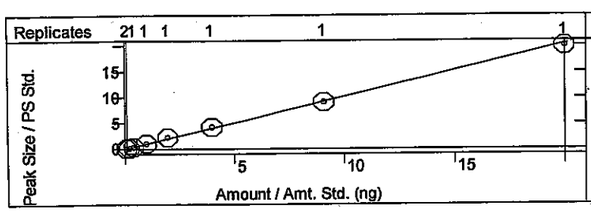
Toluene-d8
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
y = +2.0846x -0.1194



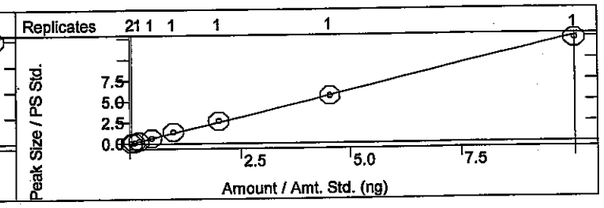
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



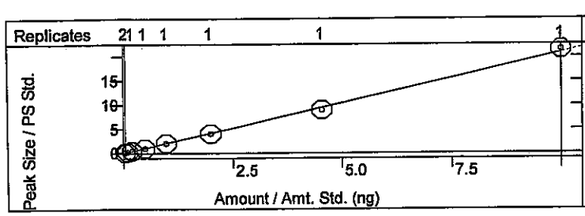
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
y = +1.0195x -0.0355



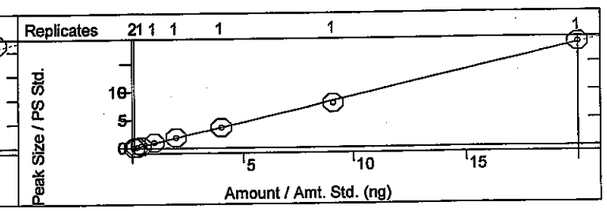
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106



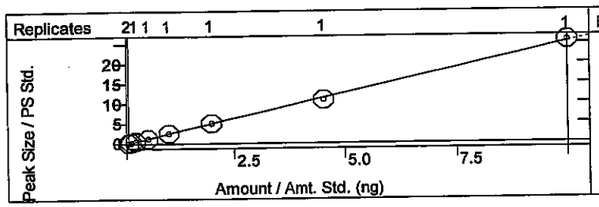
2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



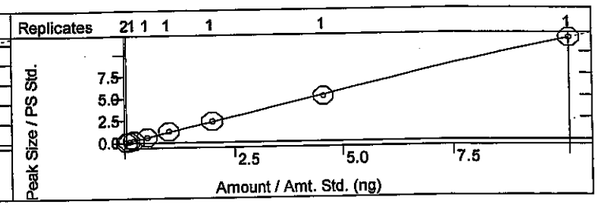
Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

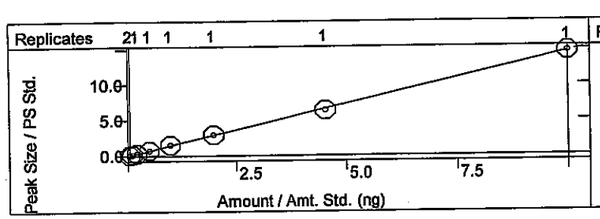
Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
y = +2.5309x -0.0289



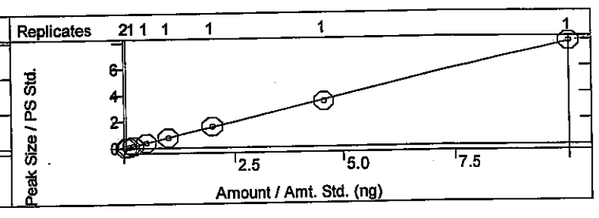
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



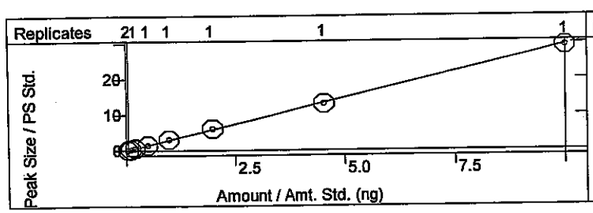
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
y = +1.4613x -2.4179e-4



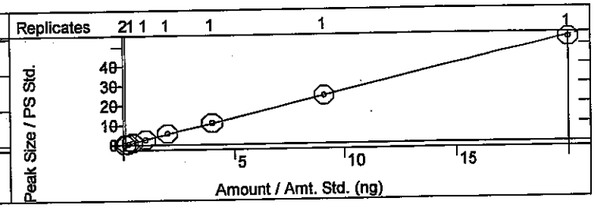
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



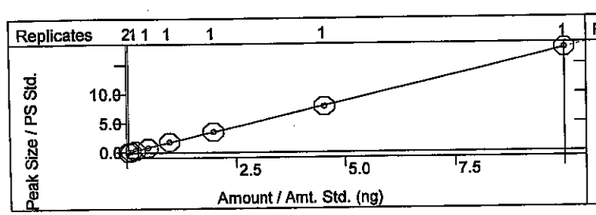
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
y = +2.9458x -0.0092



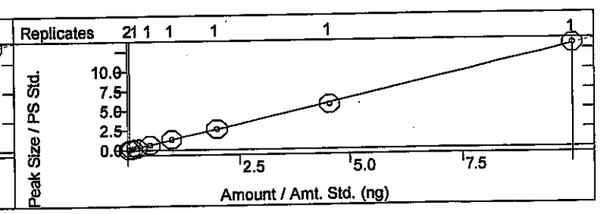
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268



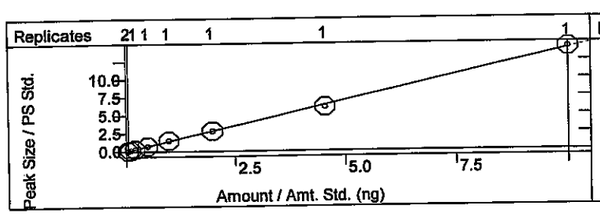
Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



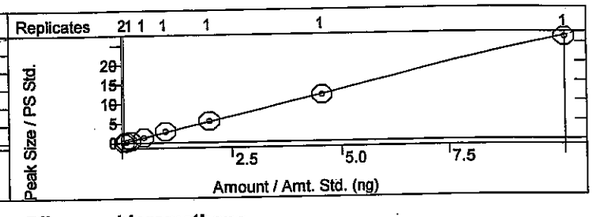
Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

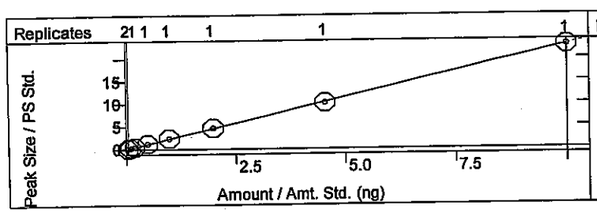
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
y = +1.4074x +0.0063



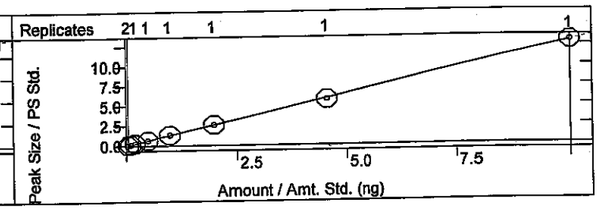
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



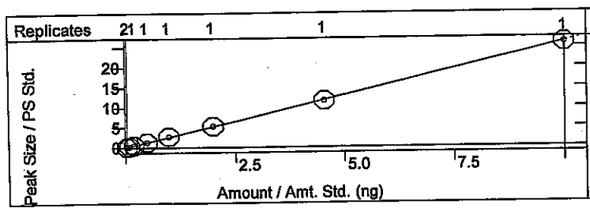
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
y = +2.2967x -0.0016



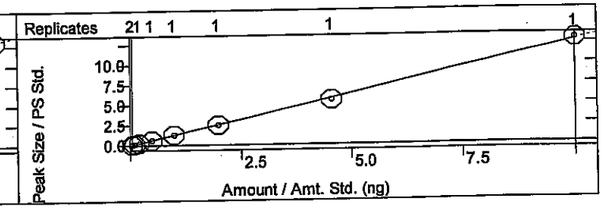
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



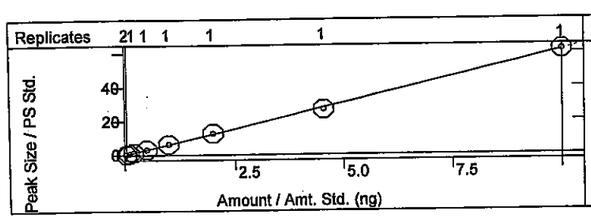
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035



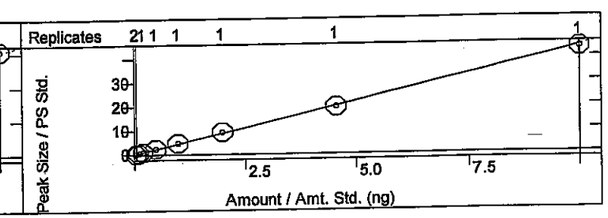
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332



Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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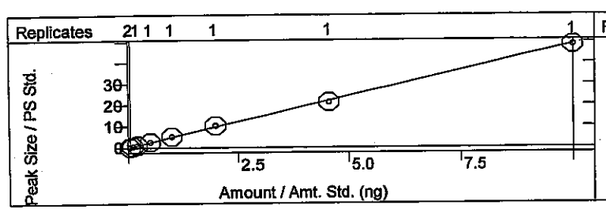
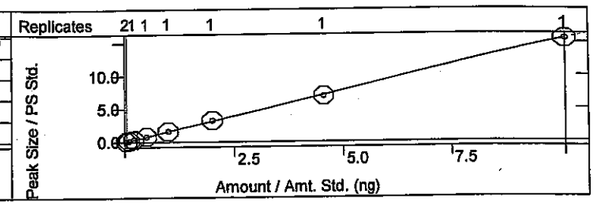
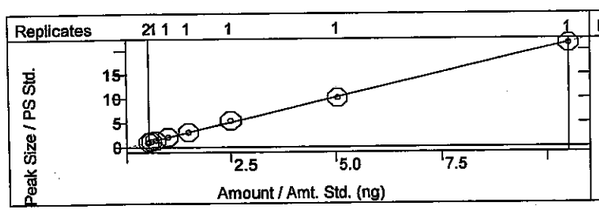
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
y = +4.8558x +0.0500



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056

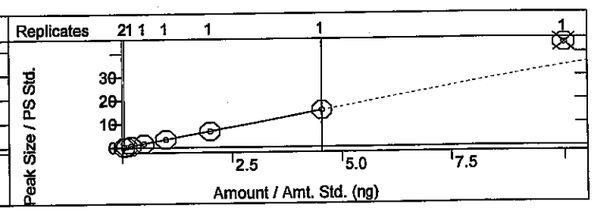


4-Bromofluorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
y = +2.0454x -0.0066



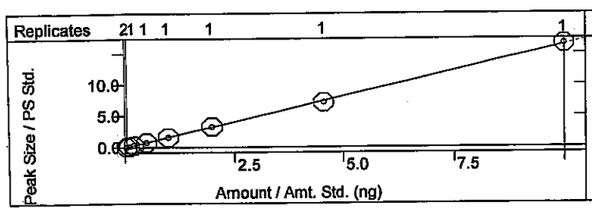
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224

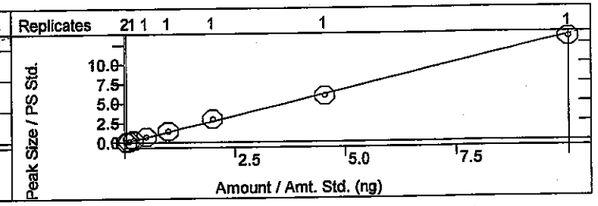
CPD fit



4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
y = +1.6334x -0.0125

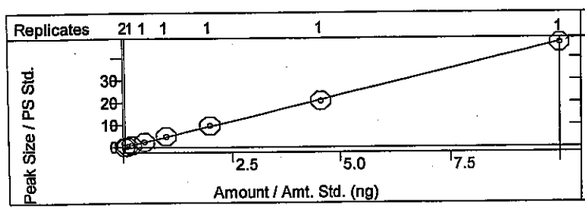
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085

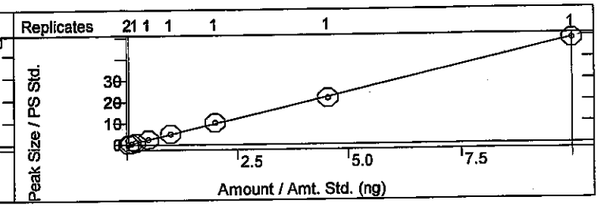




1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045





Calibration Curves Report

JA 8-4-14

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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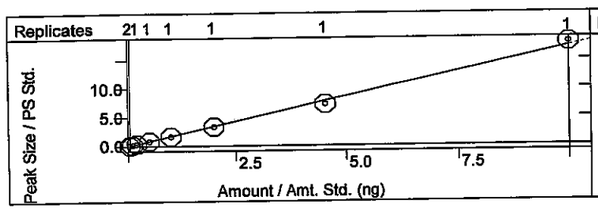
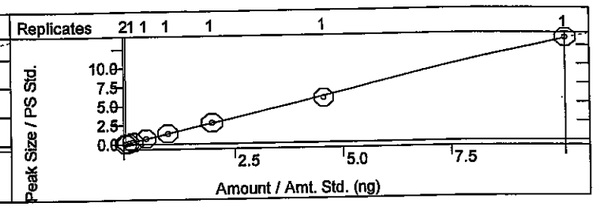
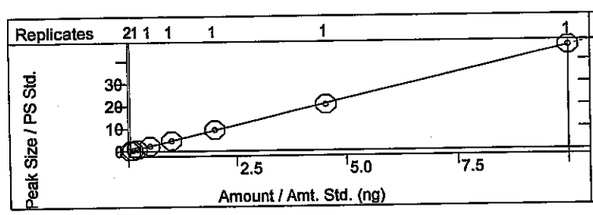
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
y = +1.7279x -0.0156



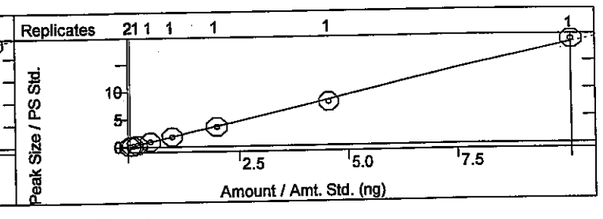
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



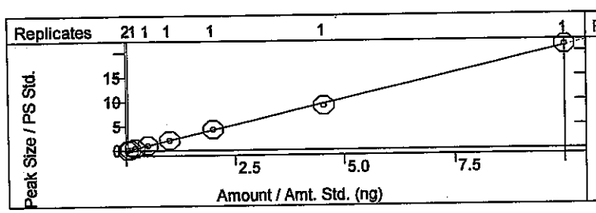
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
y = +4.6211x -0.0548



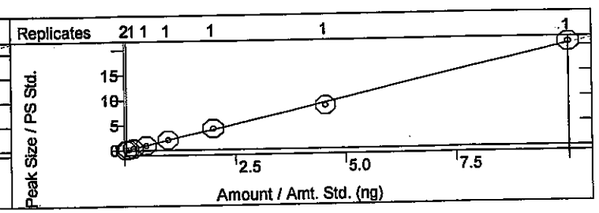
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



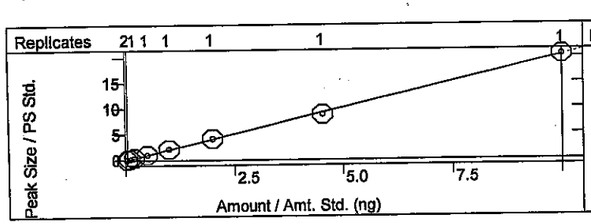
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
y = +2.0976x -0.0059



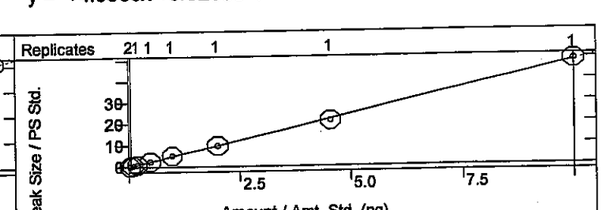
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
y = +2.0262x +0.0044



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4



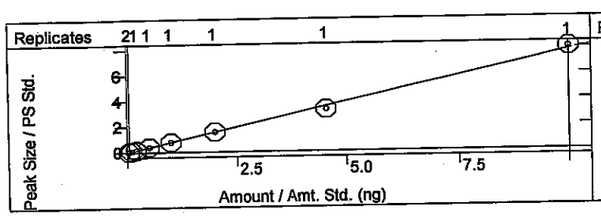
JA 8.4.14

Calibration Curves Report

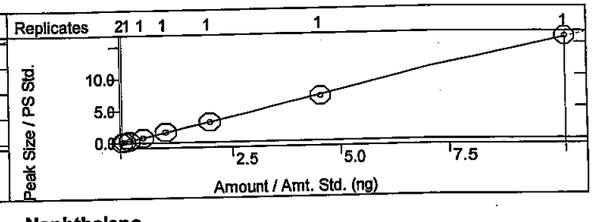
Method:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

KSH 8/4/14

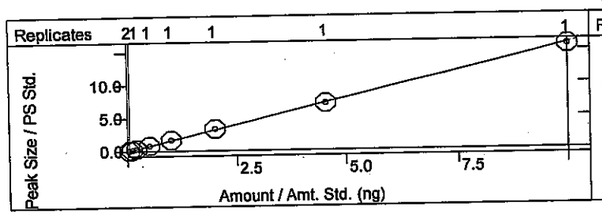
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
y = +0.7777x +5.7904e-4



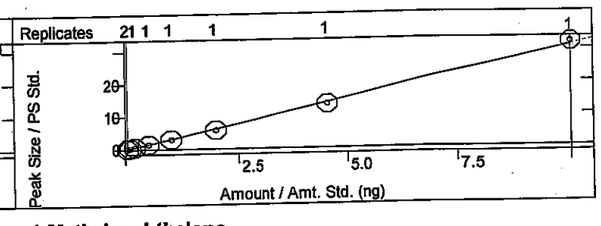
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



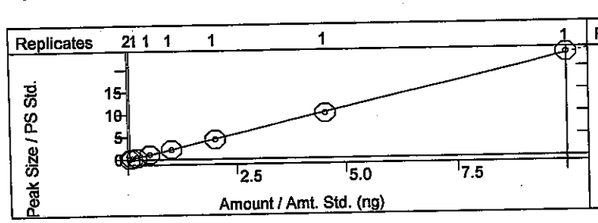
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
y = +1.5947x -0.0060



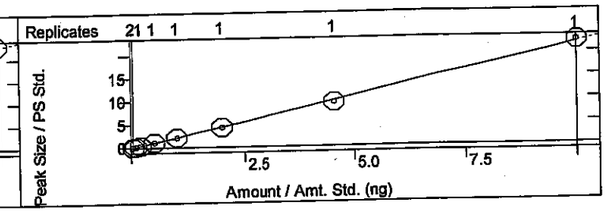
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
y = +2.2743x -0.0288



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



arian Star Workstation - Generic SampleList Mon Aug 04 14:49:47 2014

ampleList: C:\VarianWS\080414v.smp

reated: Mon Aug 04 09:11:59 2014
odified: Mon Aug 04 14:49:37 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-2064	
2	5mL-rb	below tune @10:05
	Notes All injections contain V-52-0494	
3	2.5ug ccv GRO	below @10:33
	Notes V-18-2061	
4	100ng ccv	below @11:09
	Notes V-54-0457	
5	lcs-14556	below
	Notes V-18-1933	
6	lcs-14556	below
	Notes V-11-8059	
7	mb-14556	below tune @12:25
	Notes 4681	
8	~~vcb~~	none (Sample list off by one, 1407F02-006 x10-10ul) corrected
9	b1	none KSH 8/4/14
10	1407F02-002a	below
	Notes x1-100uL MSGRO 8260 FB	
11	1407E63-001a	below
	Notes x1-100uL MSGRO 8260	
12	1407E63-001ams	below
	Notes x1-100uL MSGRO V-18-1933	
13	1407E63-001amsd	below
	Notes x1-100uL MSGRO V-18-1933	
14	1407E63-002a	below
	Notes x1-100uL MSGRO 8260	
15	1407E63-002ams	below
	Notes x1-100uL 8260 V-11-8059	
16	1407E63-002amsd	below
	Notes x1-100uL 8260 V-11-8059	
17	1407E63-003a	below
	Notes x1-100uL MSGRO 8260	
18	1407E63-004a	below
	Notes x1-100uL MSGRO 8260	
19	1407E63-005a	below
	Notes x1-100uL MSGRO 8260	
20	1407E63-006a	below
	Notes x1-100uL MSGRO 8260	
21	1407E63-007a	below
	Notes x1-100uL MSGRO 8260	
22	1408041-001a	below
	Notes x1-100uL MeOH	
23	1408041-002a	below r2
	Notes x20-5uL MeOH	
24	1408041-003a	below r1
	Notes x10-10uL MeOH	
25	1408041-004a	below
	Notes x1-100uL MeOH	
26 handcalc	1408041-005a	below
	Notes x10-10uL MeOH	
27	1408041-006a	below r1
	Notes x10-10uL MeOH	
28	1408041-007a	below
	Notes x1-100uL MeOH	
29	1408041-015a	below @10:41
	Notes x1-100uL MeOH FB	
30	b2	none
31	75ng ccv	below @11:37
	Notes V-54-0497	
32	100ng lcs	below
	Notes V-11-8061	
33	vcb	none
34	1408008-001a	below Archon stopped
	Notes x1-5mL	
35	1408008-001a ms	below
	Notes x1-5mL V-11-~~8059~~ 8061 KSH 8/4/14	N-all

Loaded By: KSH 8/4/14
1st Review By: KSH 8/5/14
QA'd By: JJB 8/5/14

```
                Notes  x1-5mL V-11-8059 8001
37          1408008-002a      below
                Notes  x1-5mL
38          1408008-006a      below
                Notes  x1-5mL TB
39          1407F06-001a      below
                Notes  x1-5mL
40          1407F06-002a      below
                Notes  x1-5mL
41                 b3         none
42          1407F06-003a      below
                Notes  x1-5mL TB
43          1407D90-002a      below
                Notes  r2-2.5mL DDS
44          1407E19-001a      below
                Notes  x20-0.25mL SL
45          1407E19-003a      below
                Notes  x20-0.25mL SL
46          1407E19-005a      below
                Notes  x20-0.25mL SL
47                 b4         none
48

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\080414v.rcl.
```

N-all
KSH
8/5/14

Loaded By: KSH 8/4/14
1st Review By: KSH 8/5/14
QA'd By: ✓ DB 8/5/14

8260B/624
Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 22727ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pqL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	Kr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pqL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : [signature] and [signature]

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	LOQ: 22.27ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RT's checked, verified, and updated.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114V GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	X	☐	☐	X	

8260 annex

Calibration Name: 062914V 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	X	☐	☐	high-rr hits
Acrylonitrile	X	☐	☐	☐	
Isobutyl alcohol	☐	X	☐	☐	high-rr hits
1,4-Dioxane	X	☐	☐	☐	
trans-1,4-Dichloro-2-butene	X	☐	☐	☐	

Analyst: RA 7-2-14

QA: NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: ___ and ___.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıta\2014v\0814v\080414v\gro\2.5ng ccv GRO 8-4-2014.SMS Lab Sample ID: 2.5ng ccv GRO

Instrument ID: VAL Date Analyzed: 8/4/2014 Time Analyzed: 10:33

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	66187	14.30										
UPPER LIMIT	132374	14.80										
LOWER LIMIT	33094	13.80										
EPA SAMPLE NO												
rtm 8-4-20	73548	14.30										
5mL-rb 8-4	65359	14.30										
lcs-14556	62017	14.30										
1407F02-00	66910	14.30										
1407F02-00	59055	14.30										
1407E63-00	58171	14.31										
1407E63-00	60277	14.31										
1407E63-00	60907	14.30										
1407E63-00	60498	14.31										
1407E63-00	61371	14.31										
1407E63-00	57096	14.31										
1407E63-00	58707	14.31										
1407E63-00	61351	14.31										
1407E63-00	61408	14.31										

JRS 8/5/14

KJH 8/5/14

8/5/2014 8:31

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
IS1												

IS1 = Benzene-d5-, chloro-
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Internal Standard And RT Summary

8/5/2014 8:31
Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\080414v\100ng ccv 8-4-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 8/4/2014 Time Analyzed: 11:01

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	46802	7.99	66009	14.30	38780	17.91						
UPPER LIMIT	93604	8.49	132018	14.80	77560	18.41						
LOWER LIMIT	23401	7.49	33005	13.80	19390	17.41						
EPA SAMPLE NO												
rtm 8-4-20	56210	7.98	73859	14.30	39651	17.91						
5mL-rb 8-4	46556	7.99	65517	14.30	35636	17.90						
2.5ng ccv	47321	7.99	67037	14.30	37977	17.90						
lcs-14556	46696	7.98	62349	14.30	41472	17.91						
lcs-14556	46693	7.99	60467	14.30	38107	17.91						
mb-14556 8	42086	7.99	54624	14.31	36871	17.91						
1407F02-00	46533	7.99	67060	14.30	33003 D	17.91 D						
b1 8-4-201	46949	8.00	65296	14.30	36974	17.91						
1407F02-00	41581	7.99	59309	14.30	39513	17.91						
1407E63-00	44514	7.99	58684	14.31	38695	17.91						
1407E63-00	46624	7.99	60097	14.31	40263	17.91						
1407E63-00	46889	7.99	61579	14.31	40992	17.91						
1407E63-00	44837	7.99	60809	14.31	40463	17.91						
1407E63-00	46964	7.99	62066	14.30	40150	17.91						
1407E63-00	43508	7.99	58630	14.31	38474	17.91						
1407E63-00	46310	7.99	61549	14.31	40561	17.91						

sp

8/5/2014

KSH 8/5/14

Internal Standard And RT Summary

8/5/2014 8:33

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407E63-00	44153	7.99	57430	14.31	37593	17.91						
1407E63-00	45142	7.99	59121	14.31	39044	17.91						
1407E63-00	47588	7.99	61506	14.31	40920	17.91						
1407E63-00	46135	7.99	61608	14.31	40989	17.91						
1408041-00	42383	7.99	57180	14.31	39388	17.91						
1408041-00	46464	7.99	65813	14.30	35514	17.91						
1408041-00	42906	7.99	60991	14.30	34112	17.91						
1408041-00	43196	7.99	61007	14.30	39354	17.91						
1408041-00	46202	7.99	65929	14.30	37385	17.91						
1408041-00	44686	7.99	63726	14.30	34811	17.90						
1408041-00	44591	7.98	60100	14.30	38696	17.91						
1408041-01	44177	7.98	56976	14.31	37970	17.91						
b2 8-4-201	45184	7.98	59889	14.30	40367	17.91						
75ng ccv 8	46838	7.99	69818	14.30	37352	17.91						
100ng lcs	43587	7.99	62988	14.30	34547	17.90						
vcb 8-5-20	42300	7.99	60875	14.30	35001	17.90						
1408008-00	43628	7.99	62487	14.30	35527	17.90						

KJH 8/5/14

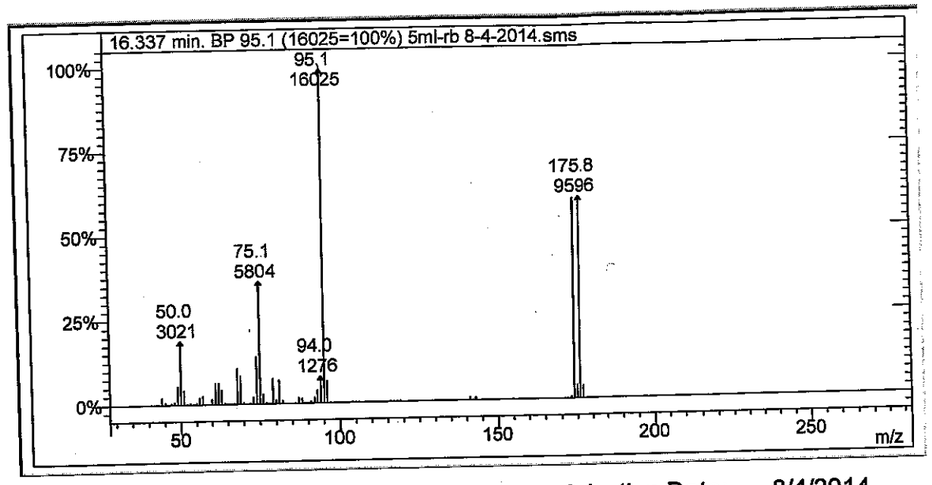
✓ WBS 8/5/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: KJH

BFB 8260B Report



Lab File ID: 5ml-rb 8-4-2014.sms

Injection Date: 8/4/2014

Injection Time: 10:05

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.85	PASS
75	30-60% of m/z 95	36.22	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.60	PASS
173	<2% of m/z 174	1.02	PASS
174	>50% of m/z 95	59.39	PASS
175	5-9% of m/z 174	6.74	PASS
176	>95% but <101% of m/z 174	100.83	PASS
177	5-9% of m/z 176	6.26	PASS

KJH 8/4/14

8/5/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.5ng ccv	66187	14.30										

KJH

✓ WBS 8/5/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/4/2014 Time: 10:33

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ng ccv gro 8-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2832.463	0.100	2.50	2.66	-6.2	20.0	PASS	PASS
BFB	0.984	0.100	50.00	47.25	5.5	30.0	PASS	PASS

KJH 8/4/14

JNB 8/5/14

8/4/2014 11:00 Page 1 of 1 2.5ng ccv gro 8-4-2014.sms

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): varianws\data\pending\080114v crv\100ng crv 8-1-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
100ng ccv	46802	7.99	66009	14.30	38780	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH 8/4/14

✓ NB 8/5/14

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/4/2014 Time: 11:01

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 8-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.925	0.100	100.00	141.02	-41.0	30.0	FAIL	PASS
Chloromethane	0.546	0.100	100.00	118.24	-18.2	30.0	PASS	PASS
Vinyl chloride	1.622	0.100	100.00	119.89	-19.9	20.0	PASS	PASS
Chloroethane	0.235	0.100	100.00	105.06	-5.1	30.0	PASS	PASS
Bromomethane	0.933	0.100	100.00	111.49	-11.5	30.0	PASS	PASS
Trichlorofluoromethane	0.963	0.100	100.00	116.20	-16.2	30.0	PASS	PASS
1,1-Dichloroethene	1.326	0.100	100.00	110.48	-10.5	20.0	PASS	PASS
Acetone	0.494	0.100	200.00	202.95	-1.5	40.0	PASS	PASS
Carbon disulfide	1.082	0.100	200.00	230.48	-15.2	40.0	PASS	PASS
Iodomethane	0.362	0.100	200.00	152.08	24.0	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.386	0.100	200.00	221.11	-10.6	30.0	PASS	PASS
Isopropyl ether	1.565	0.100	200.00	233.34	-16.7	40.0	PASS	PASS
tert-Butyl alcohol	0.323	0.100	2000.00	2371.70	-18.6	40.0	PASS	PASS
trans-1,2-DCE	1.537	0.100	100.00	110.65	-10.6	30.0	PASS	PASS
tert-Butyl ethyl ether	3.055	0.100	200.00	232.17	-16.1	40.0	PASS	PASS
1,1-Dichloroethane	1.548	0.100	100.00	107.20	-7.2	30.0	PASS	PASS
Methylene Chloride	1.565	0.100	100.00	106.69	-6.7	30.0	PASS	PASS
Vinyl Acetate	2.453	0.100	200.00	273.06	-36.5	40.0	PASS	PASS
2,2-Dichloropropane	0.943	0.100	100.00	117.76	-17.8	30.0	PASS	PASS
2-Butanone	0.615	0.100	200.00	222.83	-11.4	40.0	PASS	PASS
1,1,1-Trichloroethane	1.632	0.100	100.00	110.07	-10.1	30.0	PASS	PASS
tert-Amyl methyl ether	1.493	0.100	200.00	217.72	-8.9	40.0	PASS	PASS
1,1-Dichloropropene	0.743	0.100	100.00	111.97	-12.0	30.0	PASS	PASS
Carbon Tetrachloride	3.361	0.100	100.00	109.16	-9.2	30.0	PASS	PASS
cis-1,2-DCE	2.005	0.100	100.00	103.99	-4.0	30.0	PASS	PASS
Benzene	1.915	0.100	100.00	106.06	-6.1	30.0	PASS	PASS
Chloroform	1.340	0.100	100.00	108.48	-8.5	20.0	PASS	PASS
Bromochloromethane	0.492	0.100	100.00	112.76	-12.8	30.0	PASS	PASS
Trichloroethene (TCE)	1.273	0.100	100.00	105.65	-5.6	30.0	PASS	PASS
Dibromofluoromethane	1.554	0.100	50.00	45.18	9.6	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.420	0.100	50.00	48.36	3.3	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.772	0.100	100.00	107.50	-7.5	30.0	PASS	PASS
1,2-Dichloropropane	2.004	0.100	100.00	109.47	-9.5	20.0	PASS	PASS
4-Methyl-2-pentanone	2.118	0.100	200.00	225.50	-12.7	40.0	PASS	PASS
Toluene-d8	1.806	0.100	50.00	46.18	7.6	30.0	PASS	PASS

8/4/2014 11:27

Analyst: KJH

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.889	0.100	100.00	109.57	-9.6	20.0	PASS	PASS
2-Chloroethyl vinyl ether	1.187	0.100	200.00	234.66	-17.3	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.366	0.100	100.00	108.46	-8.5	30.0	PASS	PASS
cis-1,3-dichloropropene	2.151	0.100	100.00	103.65	-3.7	30.0	PASS	PASS
2-Hexanone	1.026	0.100	200.00	225.24	-12.6	40.0	PASS	PASS
Bromodichloromethane	2.630	0.100	100.00	104.50	-4.5	30.0	PASS	PASS
Dibromomethane	1.276	0.100	100.00	109.96	-10.0	30.0	PASS	PASS
1,3-Dichloropropane	1.574	0.100	100.00	107.73	-7.7	30.0	PASS	PASS
trans-1,3-dichloropropene	0.823	0.100	100.00	105.30	-5.3	30.0	PASS	PASS
Ethylbenzene	3.174	0.100	100.00	107.89	-7.9	20.0	PASS	PASS
mp-Xylenes	2.926	0.100	200.00	217.14	-8.6	30.0	PASS	PASS
1,1,2-Trichloroethane	1.861	0.100	100.00	106.38	-6.4	30.0	PASS	PASS
Chlorobenzene	1.361	0.300	100.00	104.94	-4.9	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.499	0.100	100.00	106.32	-6.3	30.0	PASS	PASS
o-Xylene	2.870	0.100	100.00	107.79	-7.8	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.379	0.100	100.00	103.60	-3.6	30.0	PASS	PASS
Dibromochloromethane	1.408	0.100	100.00	108.51	-8.5	30.0	PASS	PASS
Isopropylbenzene	2.806	0.100	100.00	107.61	-7.6	30.0	PASS	PASS
Styrene	1.309	0.100	100.00	103.19	-3.2	30.0	PASS	PASS
n-Propylbenzene	6.213	0.100	100.00	101.32	-1.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.462	0.100	100.00	100.81	-0.8	30.0	PASS	PASS
tert-Butylbenzene	4.898	0.100	100.00	100.36	-0.4	30.0	PASS	PASS
2-Chlorotoluene	1.491	0.100	100.00	95.50	4.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.795	0.100	50.00	44.03	11.9	30.0	PASS	PASS
sec-Butylbenzene	3.088	0.100	100.00	90.52	9.5	30.0	PASS	PASS
4-Chlorotoluene	1.589	0.100	100.00	97.65	2.4	30.0	PASS	PASS
Bromobenzene	1.366	0.100	100.00	101.02	-1.0	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.713	0.100	100.00	100.69	-0.7	30.0	PASS	PASS
4-Isopropyltoluene	4.906	0.100	100.00	100.47	-0.5	30.0	PASS	PASS
Bromoform	1.963	0.100	100.00	114.06	-14.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.351	0.100	100.00	100.47	-0.5	30.0	PASS	PASS
n-Butylbenzene	4.609	0.100	100.00	100.32	-0.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.923	0.300	100.00	104.98	-5.0	30.0	PASS	PASS
1,3-Dichlorobenzene	2.085	0.100	100.00	99.54	0.5	30.0	PASS	PASS
1,4-Dichlorobenzene	2.056	0.100	100.00	101.41	-1.4	30.0	PASS	PASS
1,2-Dichlorobenzene	2.055	0.100	100.00	101.30	-1.3	30.0	PASS	PASS
Hexachlorobutadiene	4.961	0.100	100.00	102.14	-2.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.796	0.100	100.00	102.28	-2.3	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.598	0.100	100.00	101.05	-1.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.630	0.100	100.00	102.39	-2.4	30.0	PASS	PASS
Naphthalene	2.949	0.100	100.00	95.61	4.4	30.0	PASS	PASS
2-Methylnaphthalene	2.359	0.100	100.00	104.38	-4.4	40.0	PASS	PASS
1-Methylnaphthalene	2.213	0.100	100.00	101.22	-1.2	40.0	PASS	PASS

KJH 8/4/14

8/5/14

Analyst: KJH

JV 8-5-14

Analytical Report
Lab Order: **1407F02**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407F02

Lab ID: 1407F02-001
Client Sample ID: FFOR-CF-0041

Collection Date: 7/31/2014 10:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/05/2014					& FU of 2		
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Acenaphthylene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Aniline	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Anthracene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Benz(a)anthracene	1.0	2.2	J	mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Benzo(a)pyrene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Benzo(b)fluoranthene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Benzo(g,h,i)perylene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Benzo(k)fluoranthene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Bis(2-chloroethoxy)methane	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Bis(2-chloroethyl)ether	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Bis(2-chloroisopropyl)ether	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Bis(2-ethylhexyl)phthalate	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Bromophenyl phenyl ether	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Butyl benzyl phthalate	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Carbazole	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Chloro-3-methylphenol	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Chloroaniline	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Chloronaphthalene	ND	2.7		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Chlorophenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Chlorophenyl phenyl ether	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Chrysene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Di-n-butyl phthalate	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Di-n-octyl phthalate	ND	4.4		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Dibenz(a,h)anthracene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Dibenzofuran	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
1,2-Dichlorobenzene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
1,3-Dichlorobenzene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
1,4-Dichlorobenzene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
3,3'-Dichlorobenzidine	ND	2.7		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Diethyl phthalate	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Dimethyl phthalate	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4-Dichlorophenol	ND	4.4		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4-Dimethylphenol	ND	3.3		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4,6-Dinitro-2-methylphenol	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4-Dinitrophenol	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4-Dinitrotoluene	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,6-Dinitrotoluene	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407F02

Comment: DUE 08/05/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Fluorene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Hexachlorobenzene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Hexachlorobutadiene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Hexachlorocyclopentadiene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Hexachloroethane	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Indeno(1,2,3-cd)pyrene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Isophorone	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Methylnaphthalene	22	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Methylphenol	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
3+4-Methylphenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
N-Nitrosodi-n-propylamine	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
N-Nitrosodimethylamine	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
N-Nitrosodiphenylamine	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Naphthalene	13	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Nitroaniline	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
3-Nitroaniline	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Nitroaniline	ND	4.4		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Nitrobenzene	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2-Nitrophenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
4-Nitrophenol	ND	2.7		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Pentachlorophenol	ND	4.4		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Phenanthrene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Phenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Pyrene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Pyridine	ND	5.5		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
1,2,4-Trichlorobenzene	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4,5-Trichlorophenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
2,4,6-Trichlorophenol	ND	2.2		mg/Kg-dry	5	14582	8/5/2014 12:21:47 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	5	14582	8/5/2014 12:21:47 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	5	14582	8/5/2014 12:21:47 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	5	14582	8/5/2014 12:21:47 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	5	14582	8/5/2014 12:21:47 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	5	14582	8/5/2014 12:21:47 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	5	14582	8/5/2014 12:21:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Sample Matrix not Conducive to MS/MSD SC

Extraction Method 3540

Time Started: 12:00 Time Ended: 6:00

PREP BATCH REPORT

SC 8-4

Prep Start Date: 8/4/2014 10:48:09 A
Prep End Date:

Reviewed By: dam 8/5/14

Prep Batch ID: 14582 Prep Code: 8270SOX_PR Method No: 3540

Technician: Steve Crandell

Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14582	SC 8-4	Soil			30	0	0	dam 8/5 1	0.033	8/4/2014	8-5-14 DCM 4686
LCS-14582		Soil			30	0	0	1	0.033	8/4/2014	
1407E34-001A	D-02-86-B	Solid			~~30.29~~ 30.73	0	0	1	0.033	8/4/2014	
1407F02-001A	FFOR-CF-0041	MeOH (Soil)			~~30~~ 30.06	0	0	1	0.033	8/4/2014	
LCSD-14582		Soil			30	0	0	1	0.033	8/4/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC 8-4	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 dam 8/5	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 SC 8-4	µL

****

Varian Star Workstation - 8400 SampleList Tue Aug 05 14:23:14 2014

SampleList: C:\VarianWS\080514.smp

Created: Tue Aug 05 08:28:02 2014
Modified: Tue Aug 05 14:17:09 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	mb-14582	1	below	2	1.0
	Notes x1 soil				
4	1407f02-001a	1	below	3	1.0
	Notes x1 soil fv=2mL				
5	1407e34-001a	1	below	4	1.0
	Notes x1 soil fv=2mL				
6	1407f02-001a	1	below	5	1.0
	Notes r5x				
7	lcs-14582	1	below	6	1.0
	Notes x1 soil				
8	lcsd-14582	1	below	7	1.0
	Notes x1 soil				
9	mb-14606	1	below	8	1.0
	Notes x1 tclp				
10	1408085-001a	1	below	9	1.0
	Notes x1 tclp				
11	1408085-001ams	1	below	10	1.0
	Notes x1 tclp				

dam 8/5/14

JC 8.5.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\080514.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

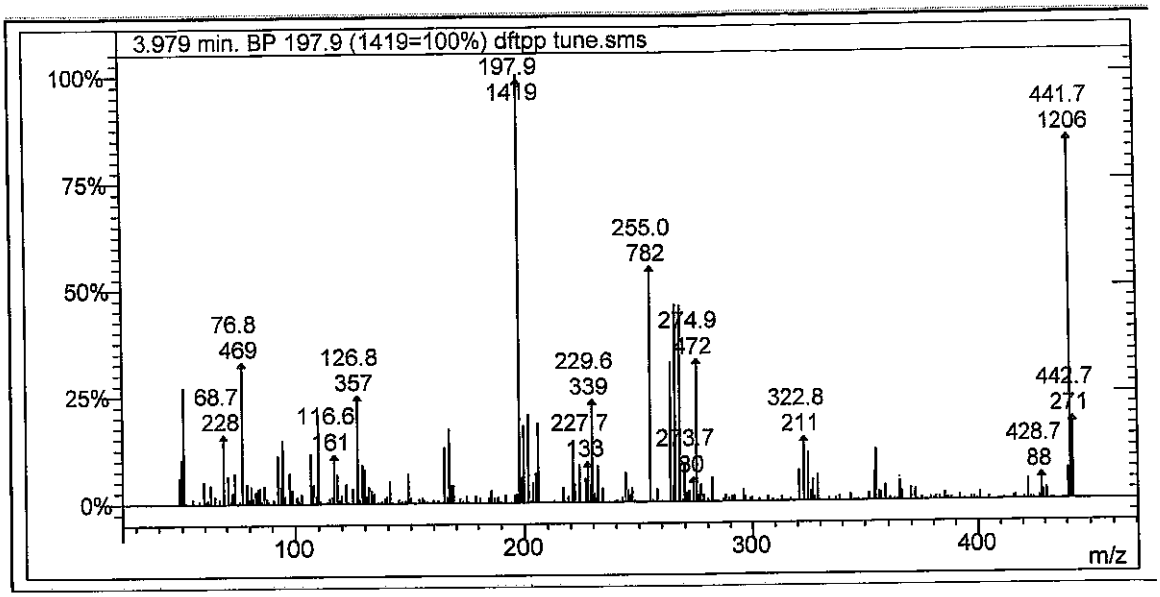
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4.28.14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/5/2014

Injection Time: 10:03

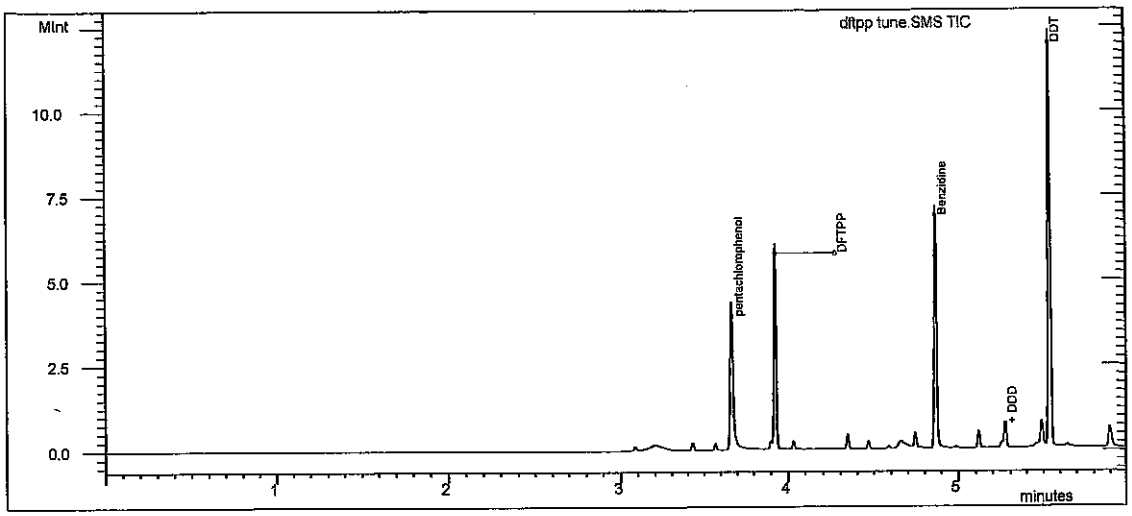
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	26.99	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	16.07	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	25.16	PASS
197	<2% of m/z 198	1.97	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.92	PASS
275	10-60% of base peak	33.26	PASS
365	>1% of base peak	4.58	PASS
441	Present and <m/z 443	38.01	PASS
442	>50% of m/z 198	84.99	PASS
443	15-24% of m/z 442	22.47	PASS

dam 8/5/14

8.5.14

Degradation Report

Acquisition Date:	8/5/2014 10:03:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.539	3.231E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.270	184736	5
DDE	4.989	4543	6

% Degradation of DDT: = 5.534

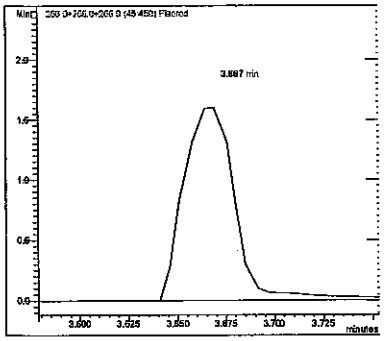
L20 dam 8/5/14

JC 8.5.14

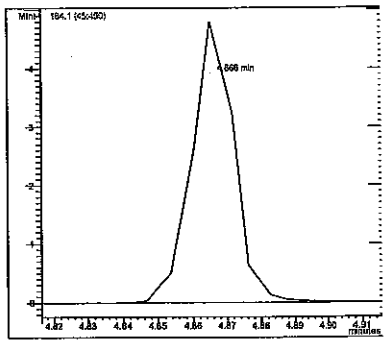
Tailing and Gaussian Factor Report

Acquisition Date:	8/5/2014 10:03:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.667 Area = 2.982E6



Benzidine
RT = 4.866 Area = 4.112E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.667	1.459	0.914
Benzidine	4.866	1.122	0.985

✓ dam 8/5/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.667	2.982E6
3	Benzidine	4.866	4.112E6

8.5.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	187465	5.18	614617	6.90	266456	9.50	520183	11.75	556247	15.76	679579	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 8/5/14

JC 8-5-14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/5/2014 Time: 10:20

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.129	0.050	50.00	51.13	-2.3	40.0	PASS	PASS
Pyridine	10.002	0.050	50.00	54.94	-9.9	40.0	PASS	PASS
2-Fluorophenol	1.109	0.050	50.00	48.34	3.3	40.0	PASS	PASS
Phenol-d5	1.069	0.050	50.00	48.98	2.0	40.0	PASS	PASS
Phenol	1.164	0.050	50.00	47.43	5.1	20.0	PASS	PASS
Aniline	3.333	0.050	50.00	40.71	18.6	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.879	0.050	50.00	46.59	6.8	40.0	PASS	PASS
2-Chlorophenol	1.184	0.050	50.00	49.49	1.0	40.0	PASS	PASS
1,3-Dichlorobenzene	1.368	0.050	50.00	45.29	9.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.417	0.050	50.00	49.66	0.7	20.0	PASS	PASS
Benzyl alcohol	1.115	0.050	50.00	49.71	0.6	40.0	PASS	PASS
1,2-Dichlorobenzene	1.337	0.050	50.00	47.46	5.1	40.0	PASS	PASS
2-Methylphenol	0.947	0.050	50.00	48.52	3.0	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.160	0.050	50.00	41.25	17.5	40.0	PASS	PASS
3+4-Methylphenol	1.074	0.050	50.00	43.75	12.5	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.318	0.050	50.00	46.85	6.3	40.0	PASS	PASS
Hexachloroethane	4.631	0.050	50.00	49.98	0.0	40.0	PASS	PASS
Nitrobenzene-d5	0.296	0.050	50.00	48.08	3.8	40.0	PASS	PASS
Nitrobenzene	0.295	0.050	50.00	46.31	7.4	40.0	PASS	PASS
Isophorone	0.598	0.050	50.00	51.03	-2.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.56	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.333	0.050	50.00	45.56	8.9	40.0	PASS	PASS
Benzoic acid	2.483	0.050	50.00	56.59	-13.2	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.373	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2,4-Dichlorophenol	0.334	0.050	50.00	47.32	5.4	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.300	0.050	50.00	45.76	8.5	40.0	PASS	PASS
Naphthalene	0.799	0.050	50.00	48.13	3.7	40.0	PASS	PASS
4-Chloroaniline	0.377	0.050	50.00	48.76	2.5	40.0	PASS	PASS
Hexachlorobutadiene	0.592	0.050	50.00	44.47	11.1	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.408	0.050	50.00	48.67	2.7	20.0	PASS	PASS
2-Methylnaphthalene	0.222	0.050	50.00	44.10	11.8	40.0	PASS	PASS
1-Methylnaphthalene	0.228	0.050	50.00	44.53	10.9	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.416	0.050	50.00	41.47	17.1	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.338	0.050	50.00	47.13	5.7	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.296	0.050	50.00	44.52	11.0	40.0	PASS	PASS
2-Fluorobiphenyl	1.523	0.050	50.00	49.64	0.7	40.0	PASS	PASS

dwm 8/5/14

JC 8.5.14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.521	0.050	50.00	48.61	2.8	40.0	PASS	PASS
2-Nitroaniline	1.113	0.050	50.00	49.89	0.2	40.0	PASS	PASS
Dimethyl phthalate	2.932	0.050	50.00	50.95	-1.9	40.0	PASS	PASS
2,6-Dinitrotoluene	0.724	0.050	50.00	52.44	-4.9	40.0	PASS	PASS
Acenaphthylene	1.917	0.050	50.00	49.20	1.6	40.0	PASS	PASS
3-Nitroaniline	1.091	0.050	50.00	50.13	-0.3	40.0	PASS	PASS
Acenaphthene	1.192	0.050	50.00	47.16	5.7	20.0	PASS	PASS
2,4-Dinitrophenol	2.654	0.050	50.00	62.52	-25.0	40.0	PASS	PASS
4-Nitrophenol	0.209	0.050	50.00	53.89	-7.8	40.0	PASS	PASS
Dibenzofuran	0.806	0.050	50.00	43.84	12.3	40.0	PASS	PASS
2,4-Dinitrotoluene	0.349	0.050	50.00	47.27	5.5	40.0	PASS	PASS
Diethyl phthalate	2.463	0.050	50.00	48.88	2.2	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.700	0.050	50.00	41.84	16.3	40.0	PASS	PASS
Fluorene	2.365	0.050	50.00	45.50	9.0	40.0	PASS	PASS
4-Nitroaniline	1.930	0.050	50.00	49.94	0.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.543	0.050	50.00	62.52	-25.0	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.674	0.050	50.00	50.60	-1.2	20.0	PASS	PASS
Azobenzene	0.935	0.050	50.00	49.85	0.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.676	0.050	50.00	50.57	-1.1	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.486	0.050	50.00	47.59	4.8	40.0	PASS	PASS
Hexachlorobenzene	0.517	0.050	50.00	46.70	6.6	40.0	PASS	PASS
Pentachlorophenol	1.498	0.050	50.00	52.85	-5.7	20.0	PASS	PASS
Phenanthrene	0.948	0.050	50.00	49.27	1.5	40.0	PASS	PASS
Anthracene	0.956	0.050	50.00	49.11	1.8	40.0	PASS	PASS
Carbazole	0.941	0.050	50.00	49.57	0.9	40.0	PASS	PASS
Di-n-butyl phthalate	2.040	0.050	50.00	50.77	-1.5	40.0	PASS	PASS
Fluoranthene	0.915	0.050	50.00	49.11	1.8	20.0	PASS	PASS
Benzidine	0.471	0.050	50.00	42.56	14.9	40.0	PASS	PASS
Pyrene	0.810	0.050	50.00	48.72	2.6	40.0	PASS	PASS
4-Terphenyl-d14	1.077	0.050	50.00	45.09	9.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.939	0.050	50.00	49.55	0.9	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.819	0.050	50.00	47.54	4.9	40.0	PASS	PASS
Benz[a]anthracene	1.710	0.050	50.00	47.23	5.5	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.873	0.050	50.00	36.94	26.1	40.0	PASS	PASS
Chrysene	2.205	0.050	50.00	52.86	-5.7	40.0	PASS	PASS
Di-n-octyl phthalate	2.530	0.050	50.00	53.06	-6.1	20.0	PASS	PASS
Benzo(b)fluoranthene	1.643	0.050	50.00	56.76	-13.5	40.0	PASS	PASS
Benzo[k]fluoranthene	1.672	0.050	50.00	57.48	-15.0	40.0	PASS	PASS
Benzo[a]pyrene	1.556	0.050	50.00	56.57	-13.1	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.870	0.050	50.00	49.97	0.1	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.874	0.050	50.00	59.97	-19.9	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.845	0.050	50.00	49.76	0.5	40.0	PASS	PASS

dam 8/5/14

JV 8.5.14

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

TV
4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

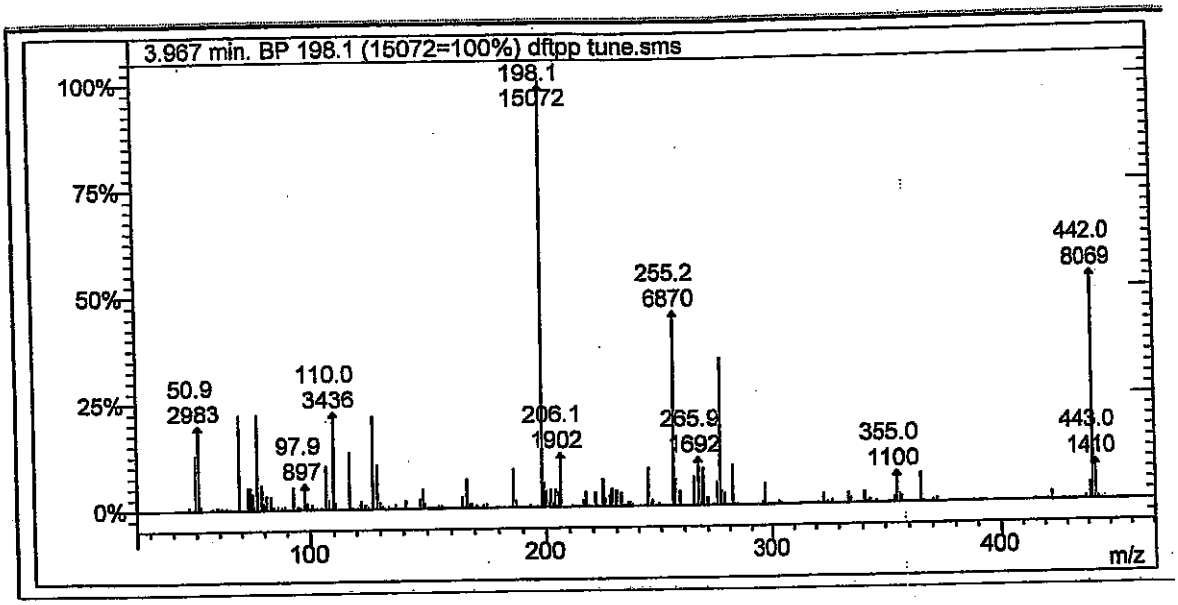
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

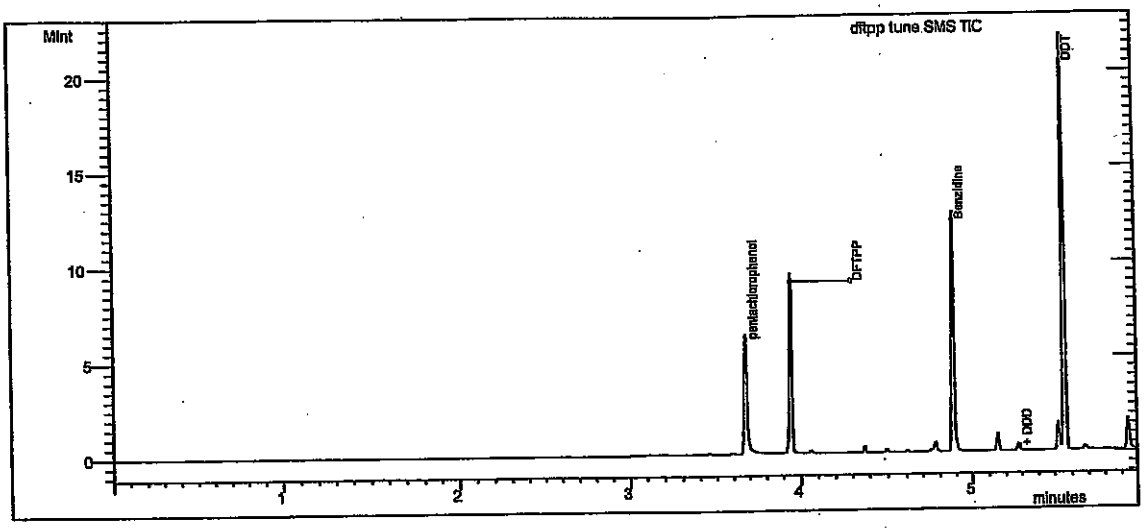
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

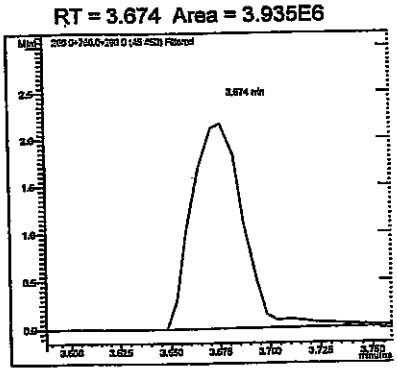
% Degradation of DDT : = .509 ✓ dam 4/28/14

TX 4-28-14

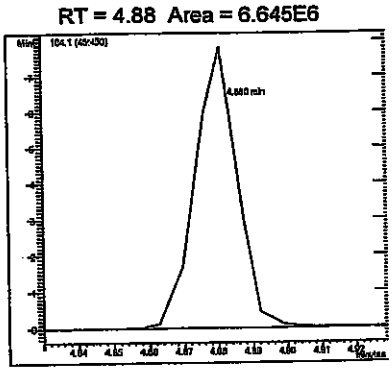
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dlm 4/28/14

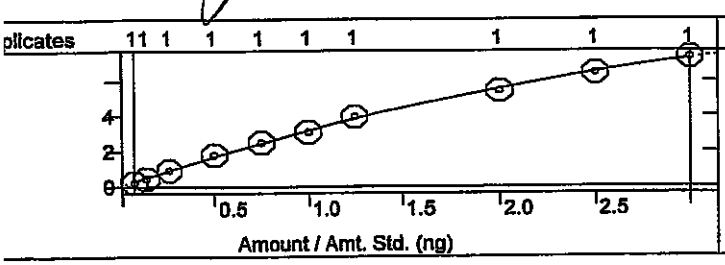
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

4.28.14

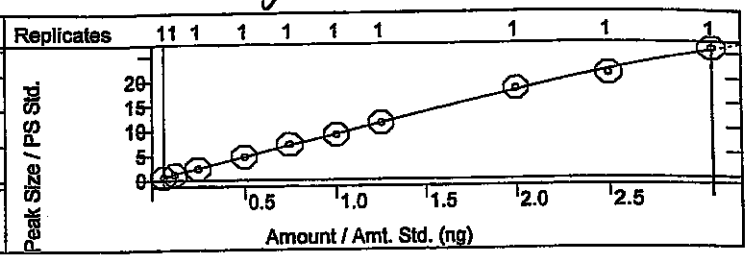
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

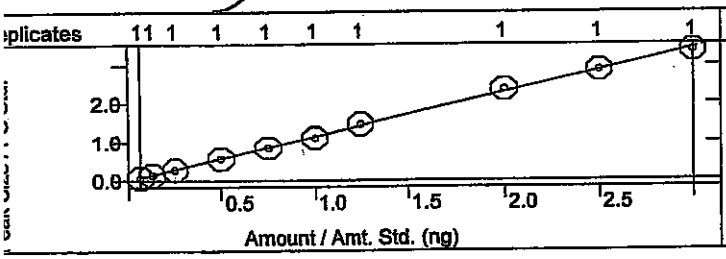
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



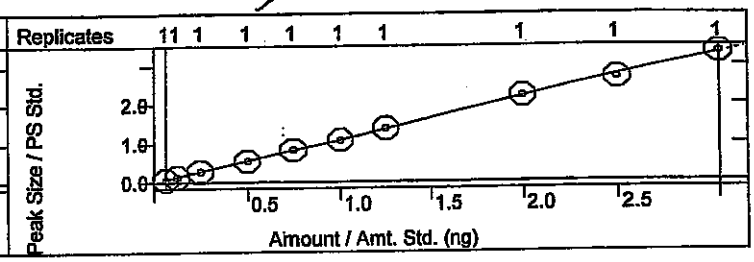
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



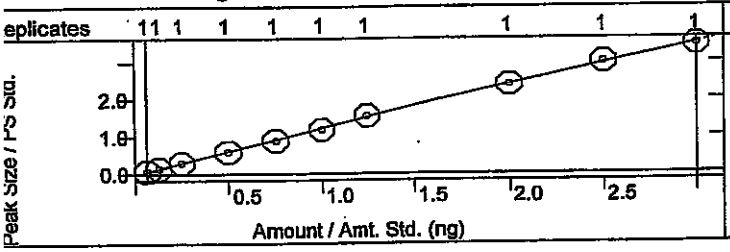
-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



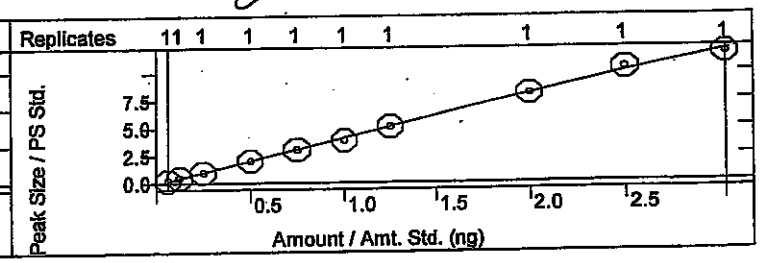
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



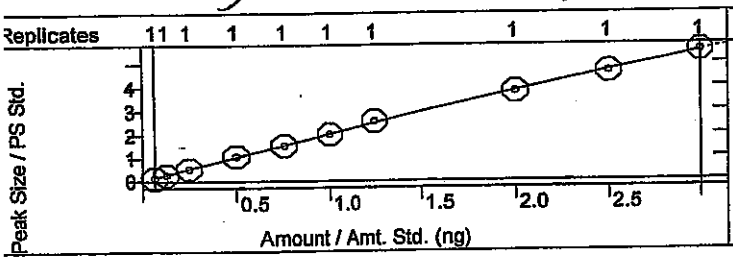
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



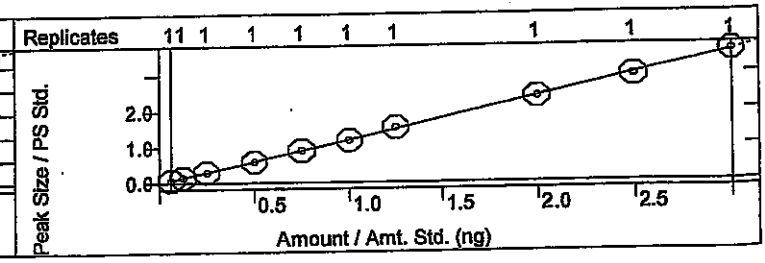
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



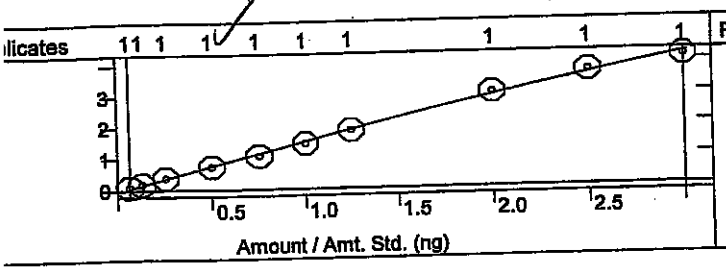
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



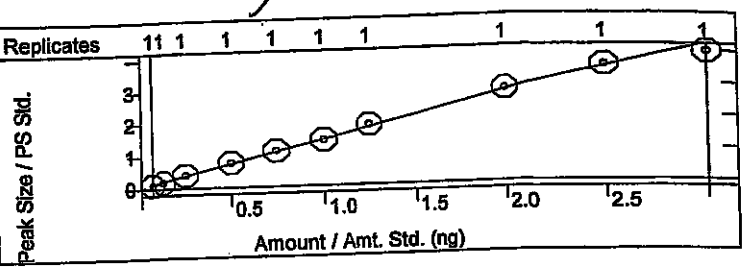
Calibration Curves Report

Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

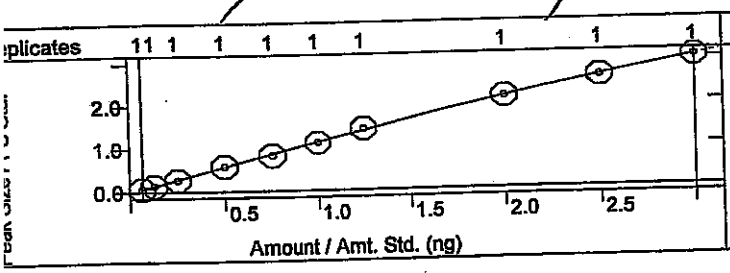
1,3-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
y = -0.0693x2 +1.6278x -0.0442



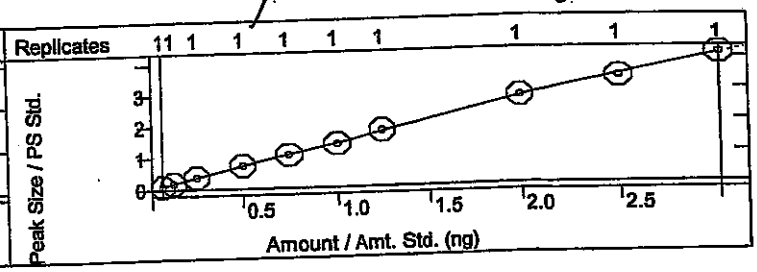
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



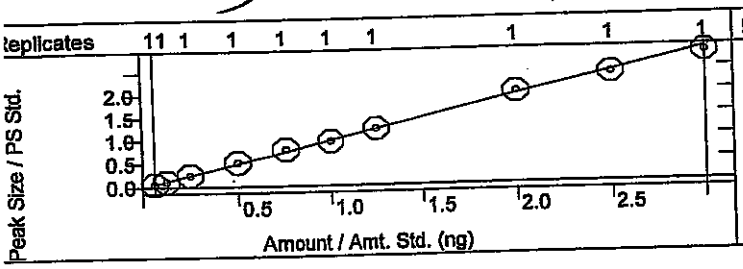
Benzyl alcohol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
y = -0.0661x2 +1.2165x -0.0165



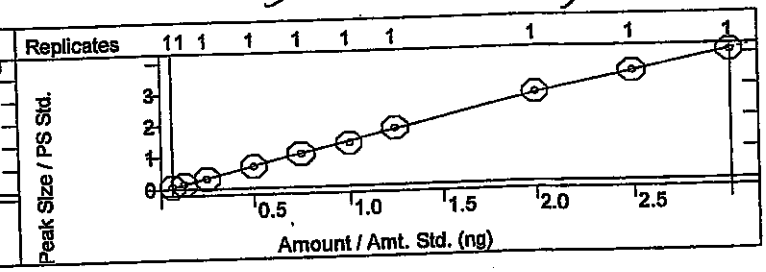
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



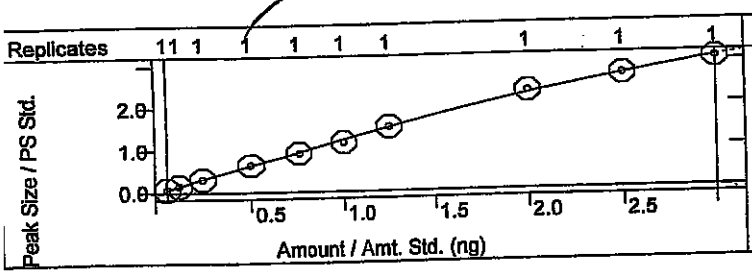
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



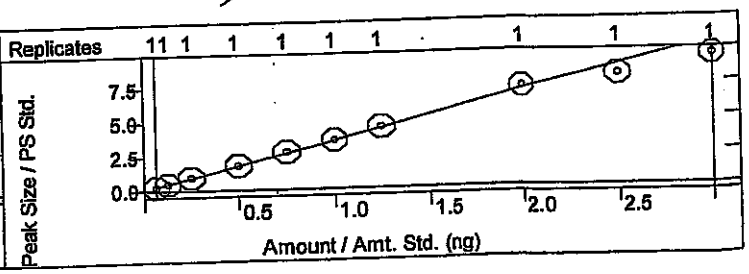
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

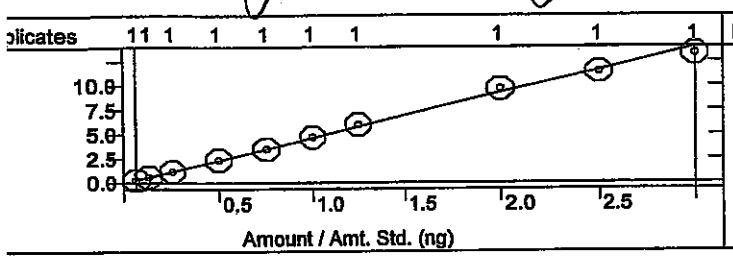


alibration Curves Report

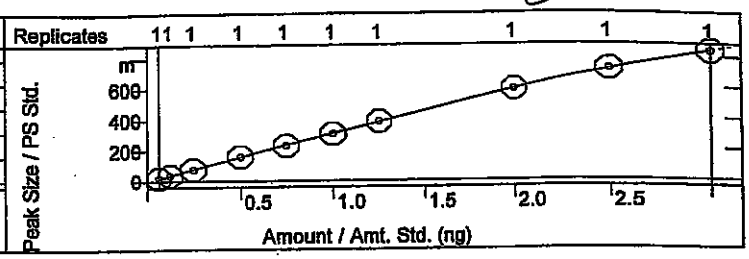
VJdam 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

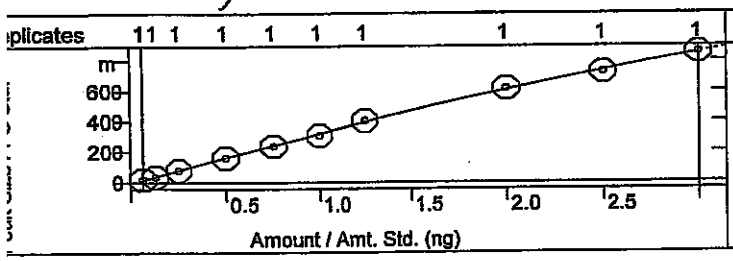
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



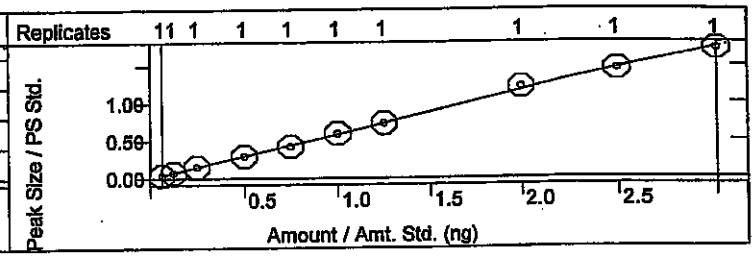
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



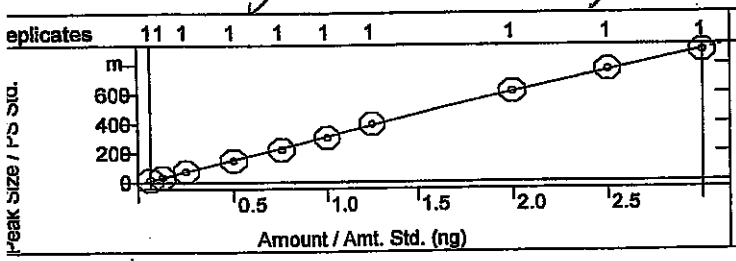
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



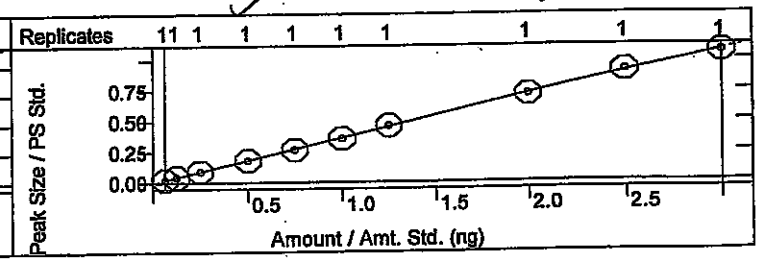
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



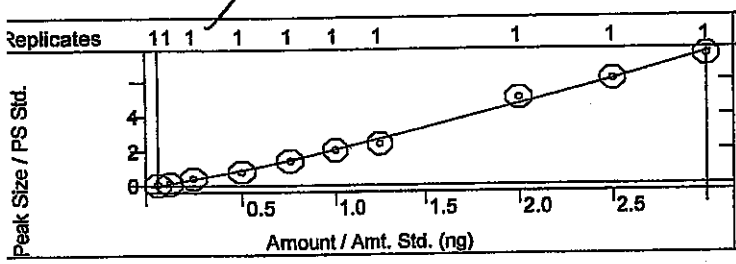
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



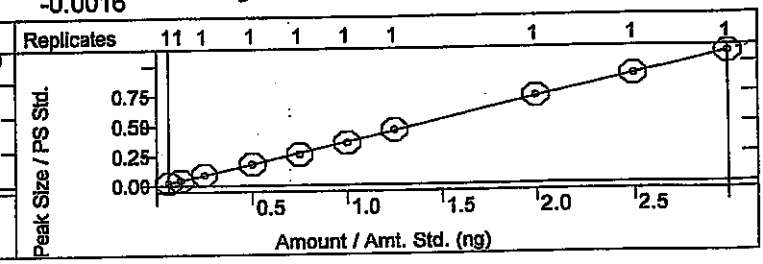
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



ılibration Curves Report

√ dlm 4/28/14

hod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
nple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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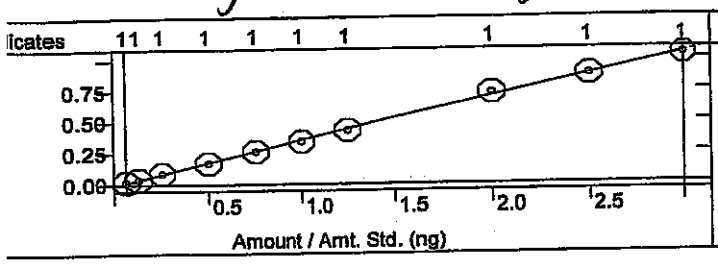
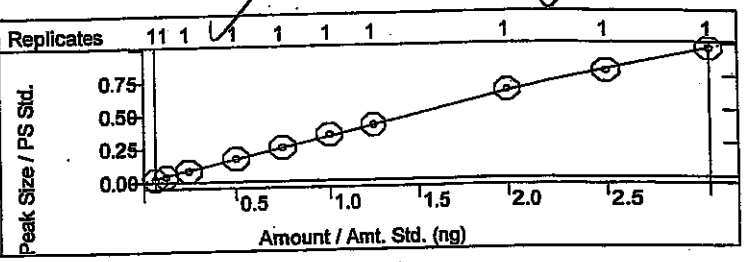
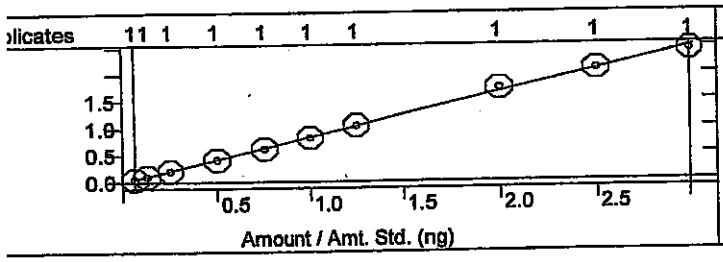
-Dichlorophenol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
: -0.0055x2 +0.3668x -0.0082



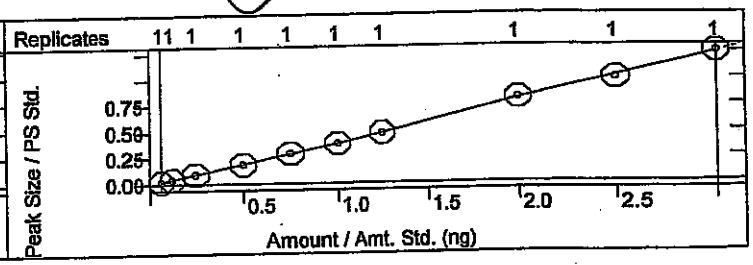
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



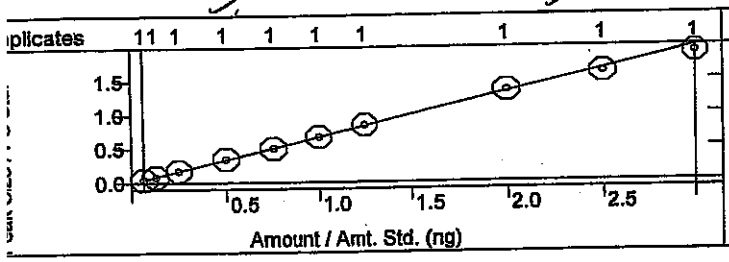
ıphthalene
ırve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



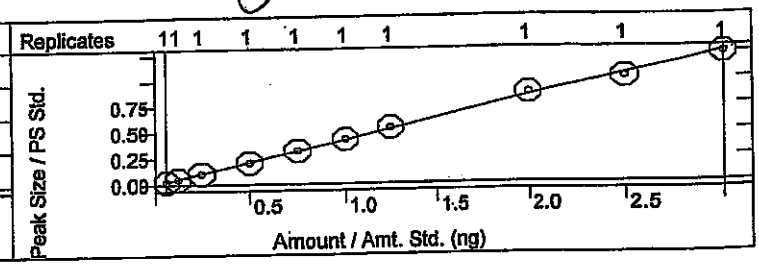
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



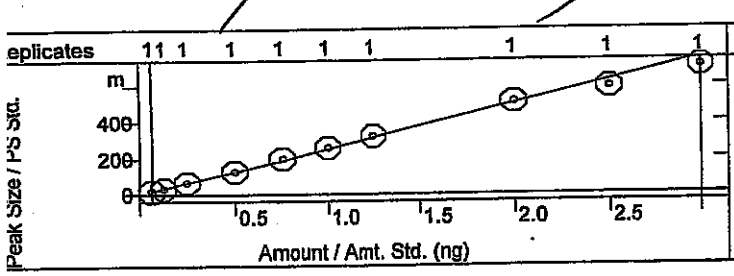
exachlorobutadiene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



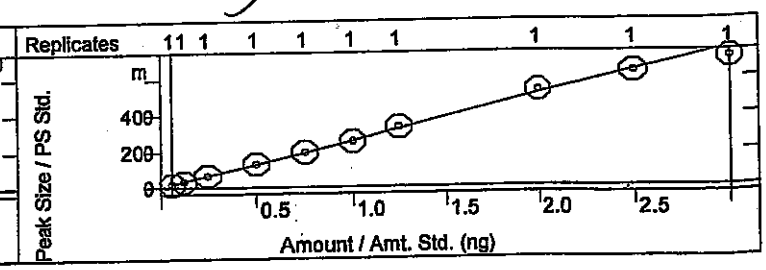
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



alibration Curves Report

dlm 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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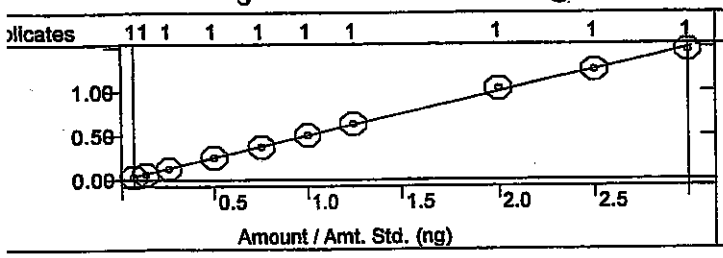
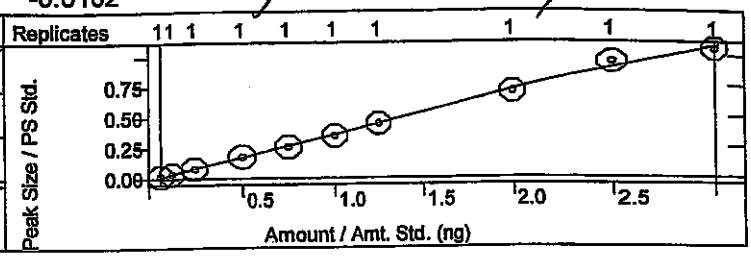
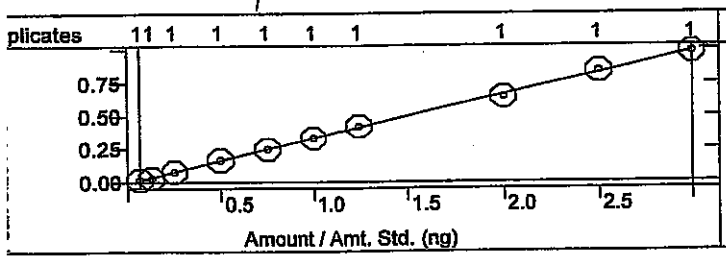
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



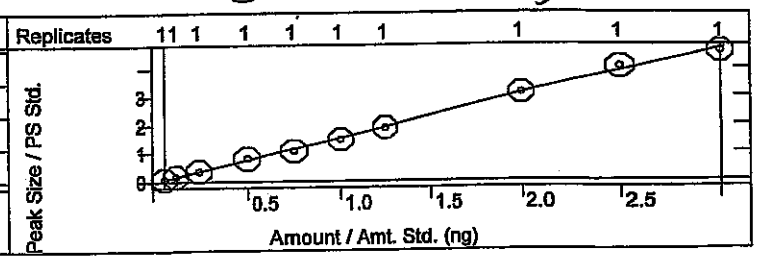
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



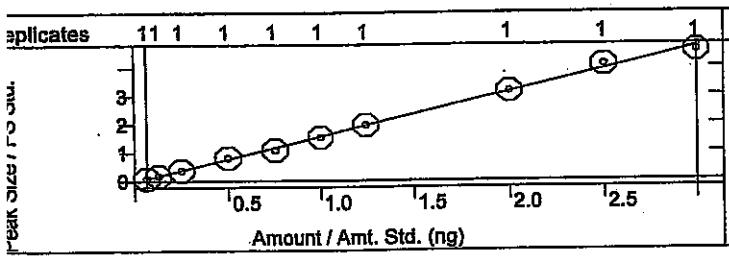
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



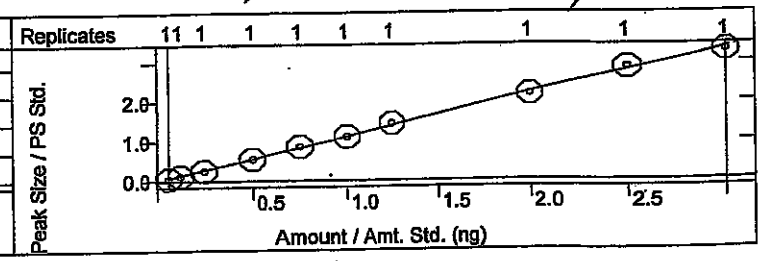
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



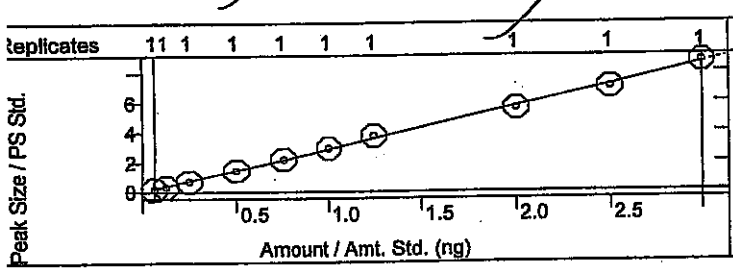
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



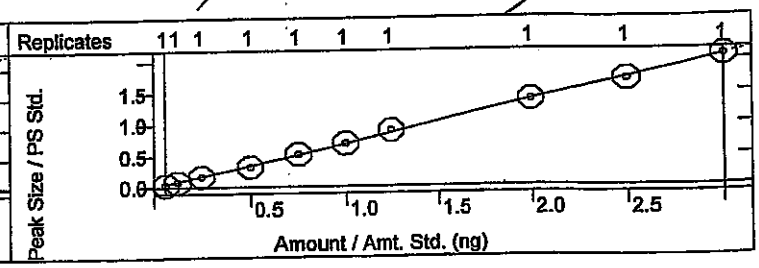
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0178



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



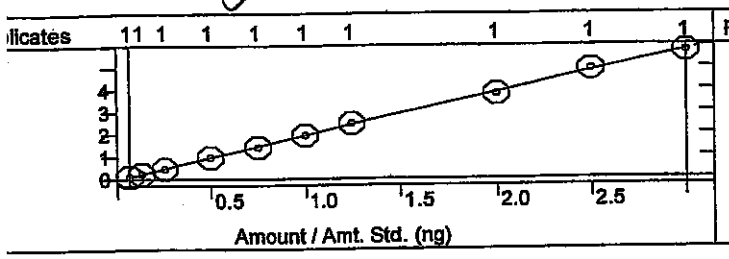
alibration Curves Report

✓ dan 4/28/14

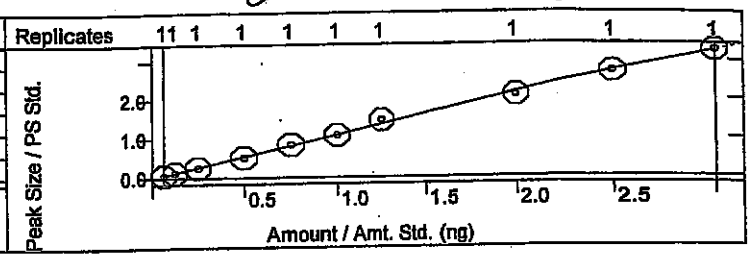
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

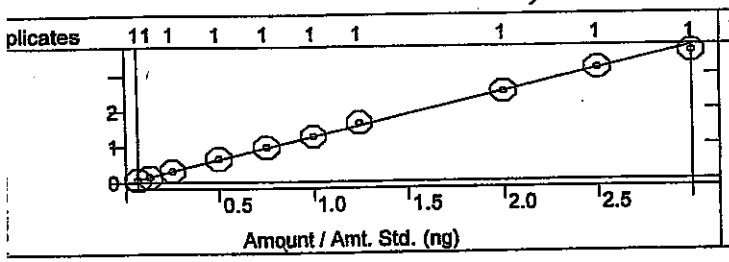
enaphthylene
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



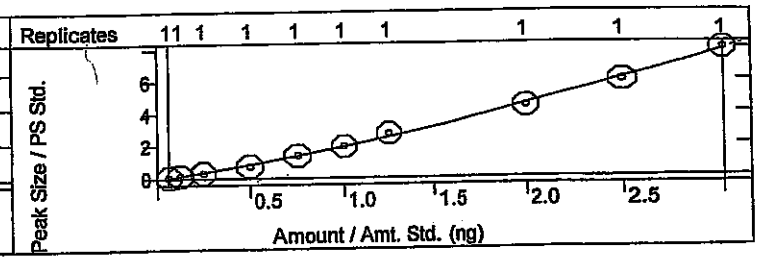
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



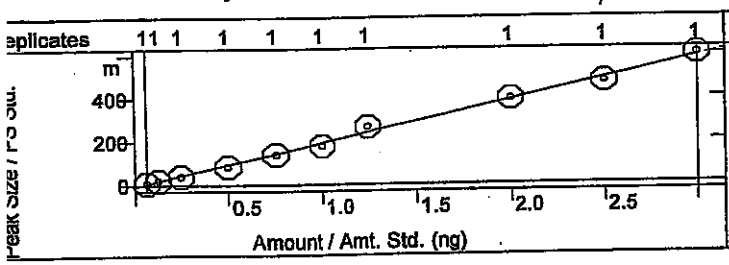
cenaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



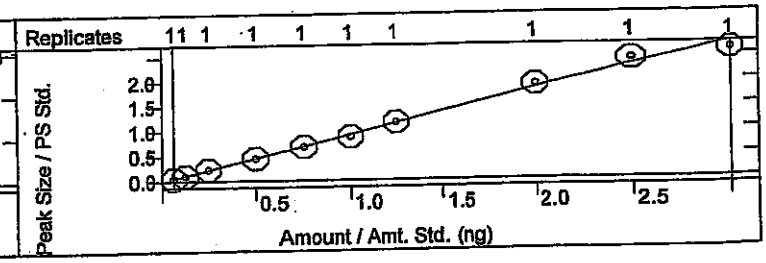
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



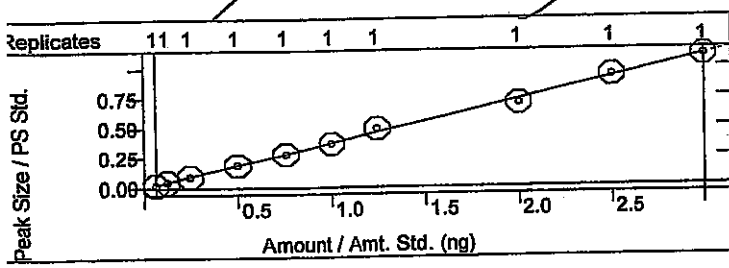
-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
= +0.1978x -0.0058



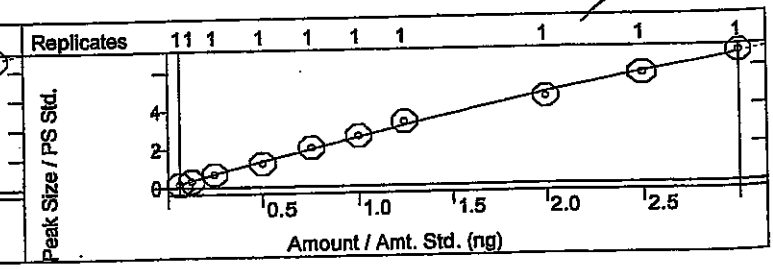
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



alibration Curves Report

J MM 7/20/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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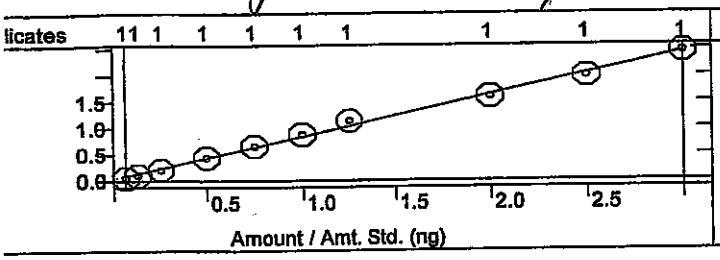
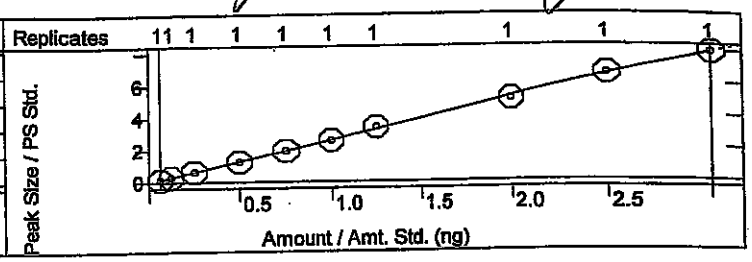
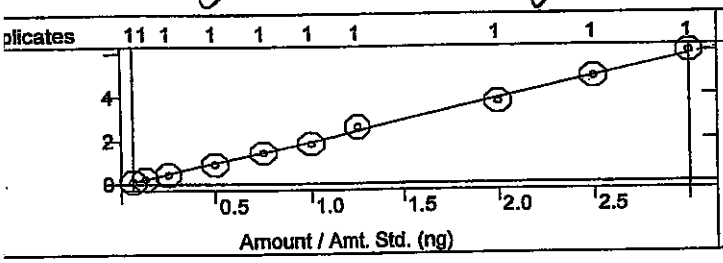
Chlorophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
y = +0.8008x +0.0369



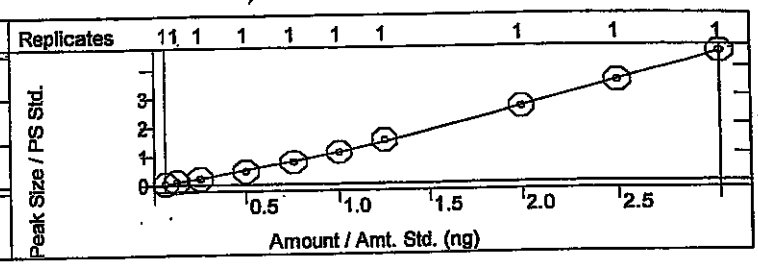
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



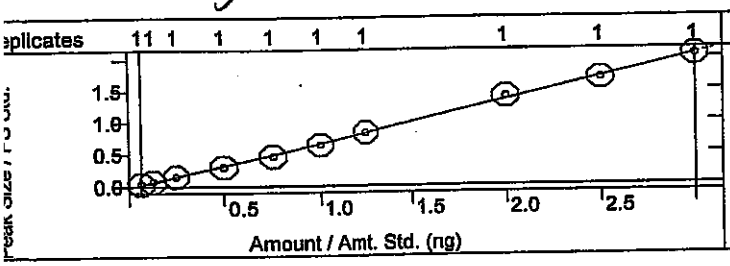
Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
y = +1.9592x -0.0342



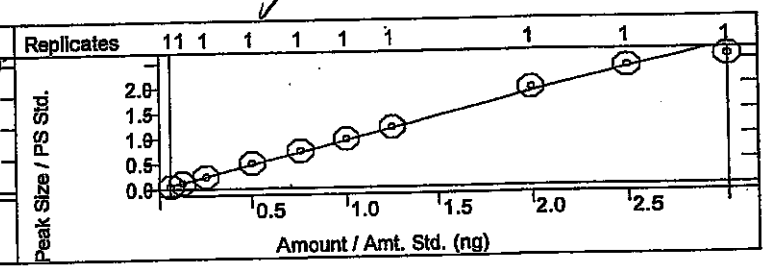
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



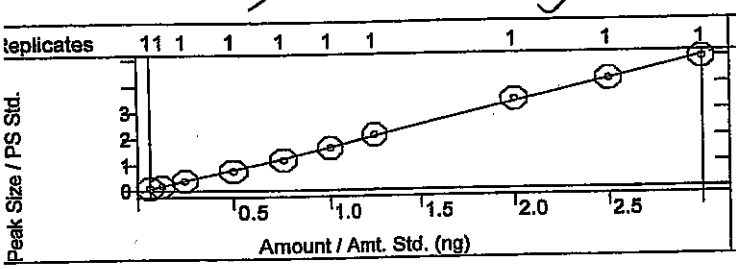
N-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



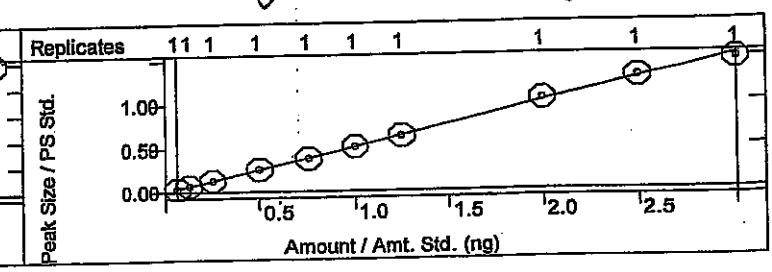
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



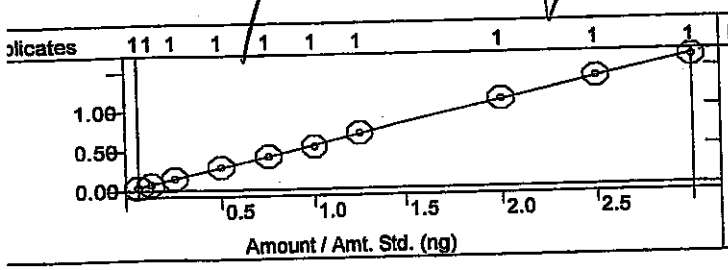
alibration Curves Report

JDM 4/28/14

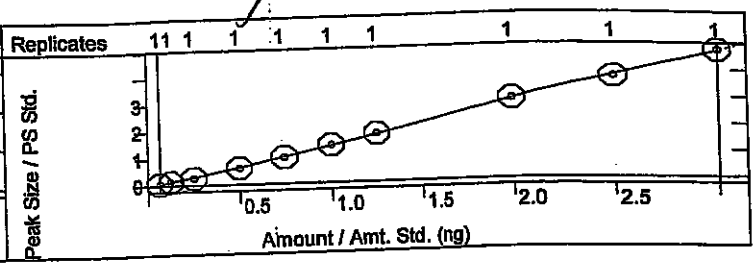
thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
s Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

JC 4-28-14

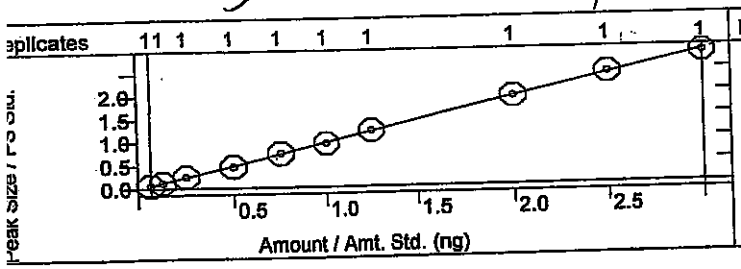
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



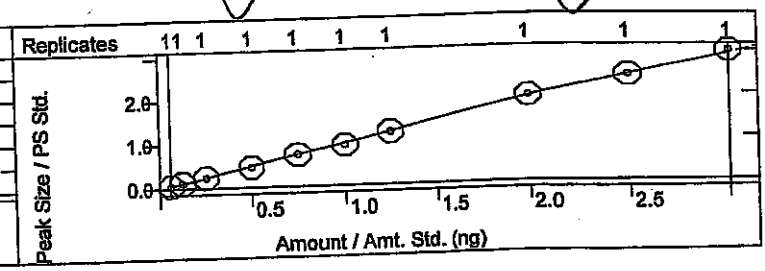
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



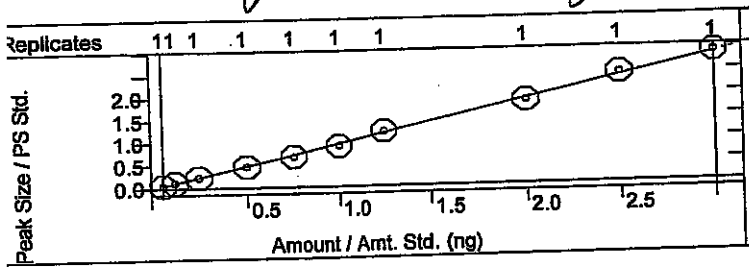
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



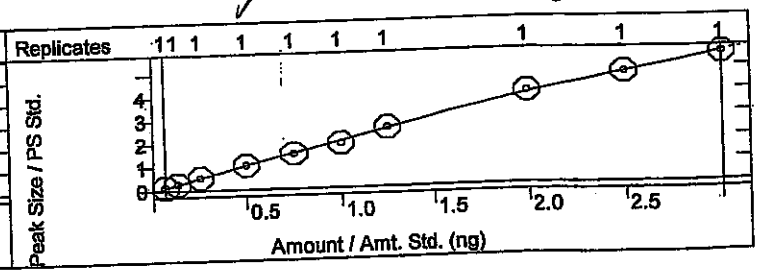
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



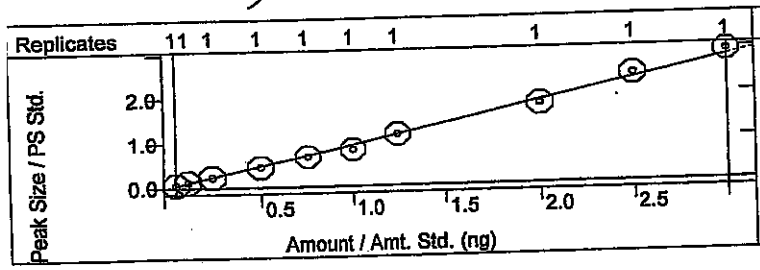
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



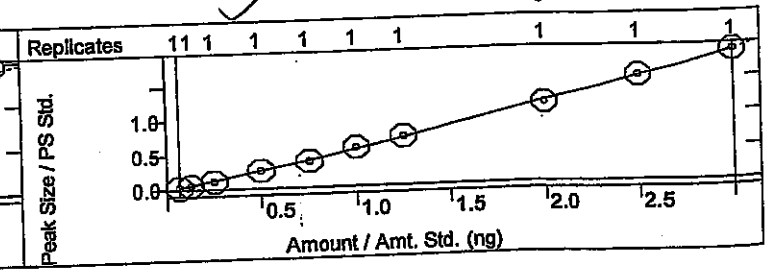
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



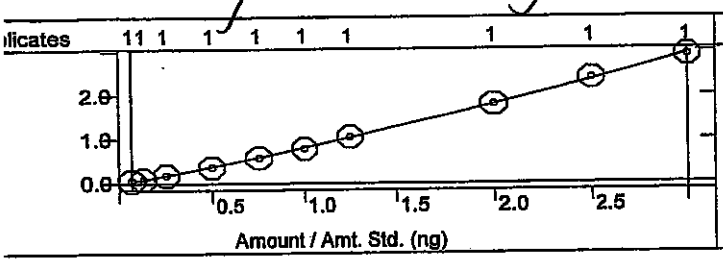
alibration Curves Report

J Allen 4/28/14

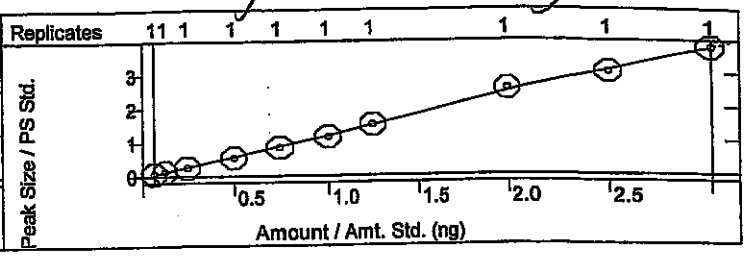
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
5 Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

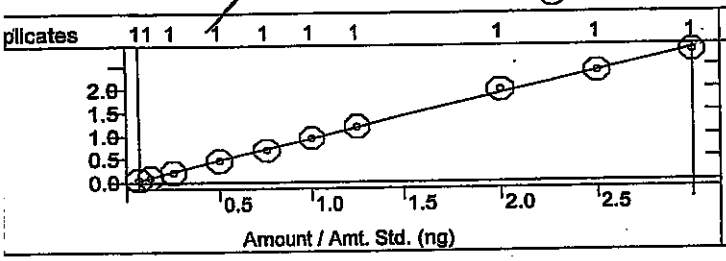
rene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



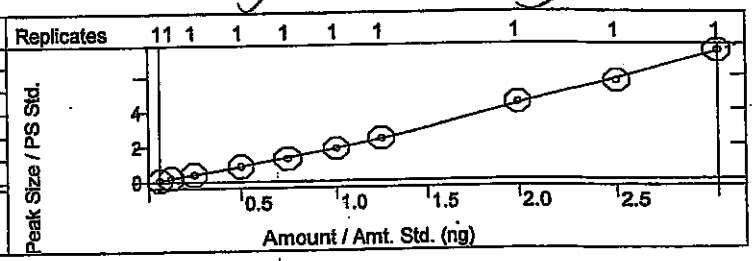
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



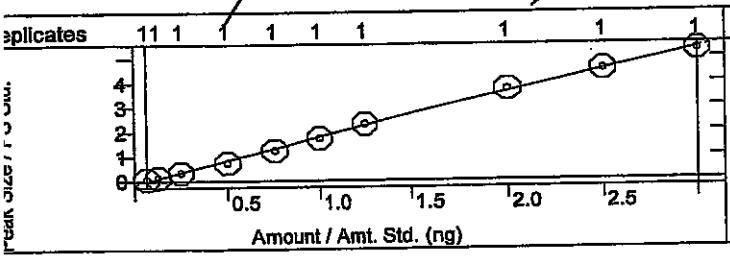
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



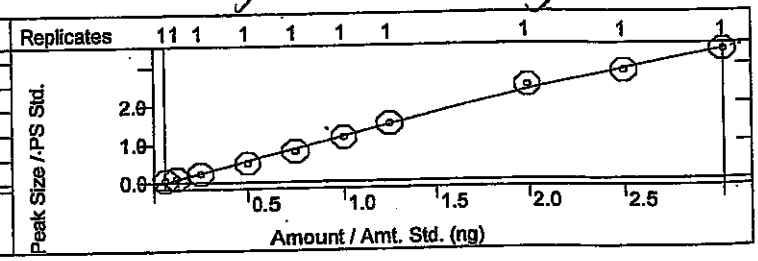
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



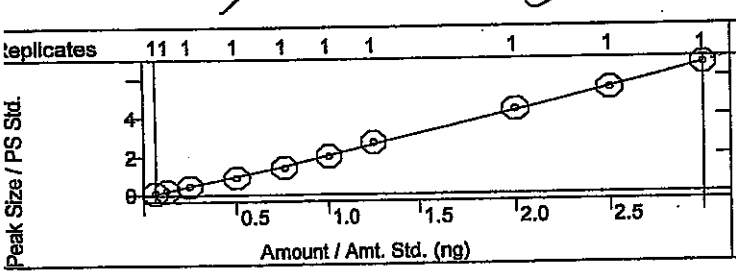
enz[a]anthracene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9866x -0.1374



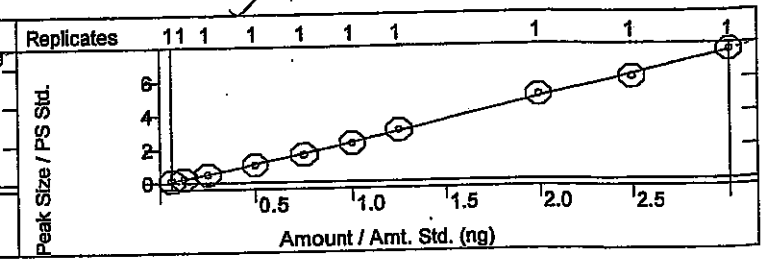
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



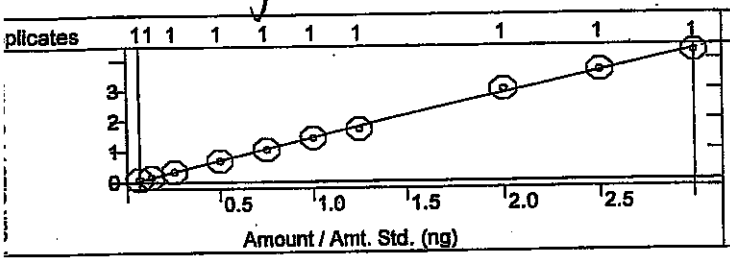
alibration Curves Report

/ dmh 4/28/14

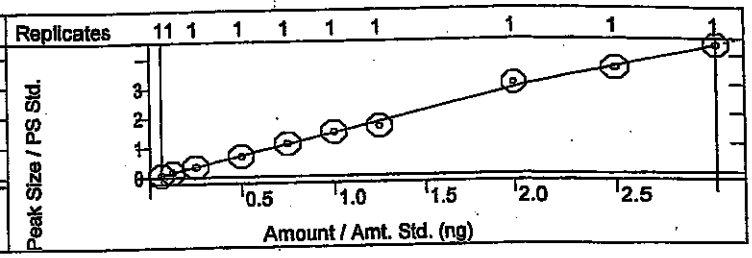
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4-24-14

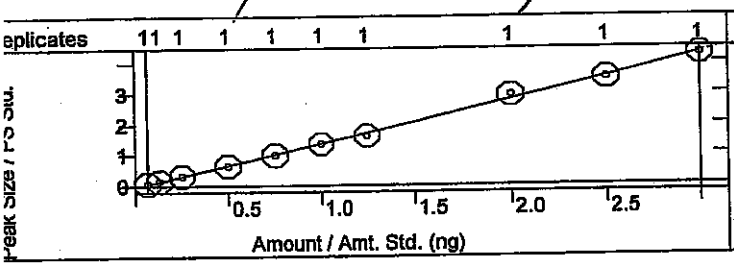
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



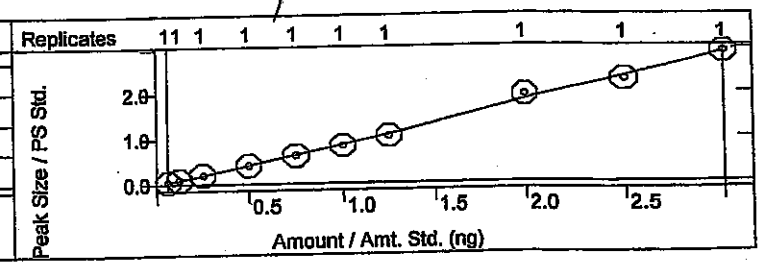
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



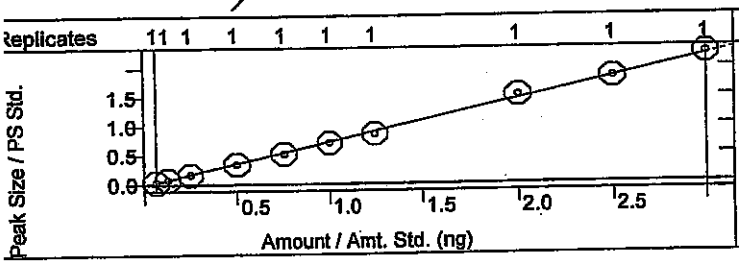
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



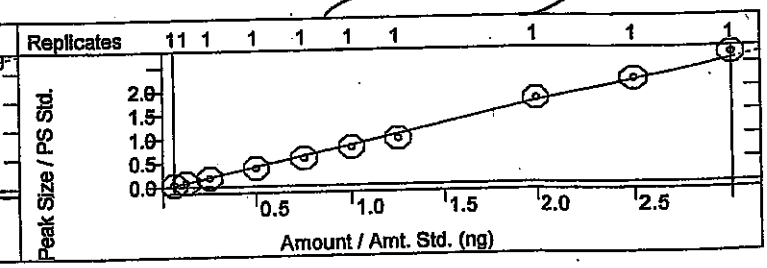
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dam 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dam 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28/14

JL 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dam 4/28

4-24-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dah 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dlm 4/29/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MInRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

4-24-14

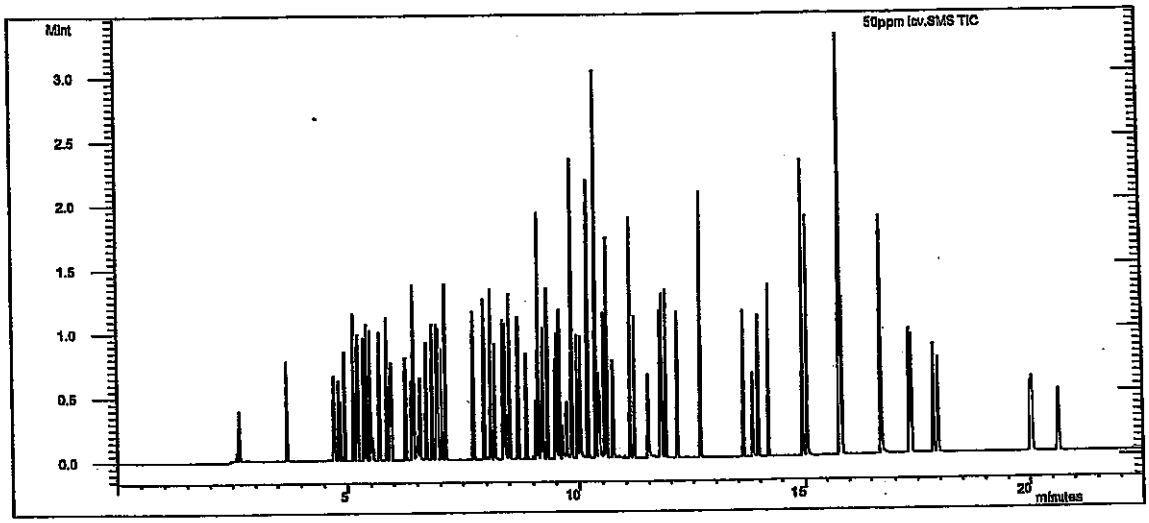
Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dam 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius
Page 2 of 3

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

8/5/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407F02**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407F02

Lab ID: 1407F02-001
Client Sample ID: FFOR-CF-0041

Collection Date: 7/31/2014 10:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.0	0.27		mg/Kg-dry	1	8/5/2014 9:26:54 AM	14564

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2.
RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: DD 8/1/14

QA'd/Date: DD 8/6/14

Prep Start Date: **8/1/2014 3:55:10 P**
Prep End Date:

Prep Batch ID **14564** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14564		Soil			1.0404	0	0	50	50.000	8/1/2014	
LCS-14564		Soil			1.0107	0	0	50	50.000	8/1/2014	
1407B29-002A	Infra C1-1a Sediment	Solid			1.0004	0	0	50	50.000	8/1/2014	
1407E71-001A	ESB-94-2 (24.4-24.9)	Soil			1.9585	0	0	50	50.000	8/1/2014	
1407E71-002A	ESB-97-2 (15.5-16)	Soil			1.9603	0	0	50	50.000	8/1/2014	
1407E71-003A	ESB-100-2 (15.4-15.8	Soil			1.0113	0	0	50	50.000	8/1/2014	
1407F02-001A	FFOR-CF-0041	MeOH (Soil)			1.0040	0	0	50	50.000	8/1/2014	
1407F02-001AMS		MeOH (Soil)			1.0116	0	0	50	50.000	8/1/2014	
1407F02-001AMSD		MeOH (Soil)			1.9847	0	0	50	50.000	8/1/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
1407E34-001D			1.0265g			
1408041-008A			1.0491g			

EH 8/2/14

Sample Information Detail Report
Document Name: 080514 B14564

File Description
Hall Design

Parameters Common to All Samples

Batch ID	080514 B14564
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14564	MBLK
2	302	LCS-14564	LCS
3	303	MB-14589	MBLK
4	304	LCS-14589	LCS
5	305	1407F02-001A	SAMP
6	306	1407F02-001AMS	MS
7	307	1407F02-001AMSD	MSD
8	308	1408055-001A	SAMP
9	309	1408055-002A	SAMP
10	310	1408055-003A	SAMP
11	311	1408006-001A 5X	SAMP
12	312	1408006-001AMS 5X	MS
13	313	1408006-001AMSD 5X	MSD
14	314	1408041-008A	SAMP
15	315	1407E34-001D	SAMP
16	316	1407B29-002A 50X	SAMP
17	317	1407E71-001A 50X	SAMP
18	318	1407E71-002A 50X	SAMP
19	319	1407E71-003A 50X	SAMP
21	320	1408006-001A 2X	SAMP
22	321	1408006-001AMS 2X	MS
23	322	1408006-001AMSD 2X	MSD
24	323	1407E34-001D 5X	SAMP
25	324	1407E34-001D 10X	SAMP
26	325	1407B29-002A 100X	SAMP
27	326	1407E71-001A 20X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL	Recovery 1 of 3	
5	METALS_SOIL		
6	METALS_SOIL	Recovery 1 of 5	
7	METALS_SOIL	Recovery 1 of 5	
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL	Recovery 1 of 11	
13	METALS_SOIL	Recovery 1 of 11	
14	METALS_SOIL		
15	METALS_SOIL		
16	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		
21	METALS_SOIL		
22	METALS_SOIL		
23	METALS_SOIL		
24	METALS_SOIL		
25	METALS_SOIL		
26	METALS_SOIL		
27	METALS_SOIL		

Sample Information Detail Report
Document Name: 080514 B14564

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
21			
22			
23			
24			
25			
26			
27			

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	301	MB-14564	Analyzed
17	302	LCS-14564	Analyzed
18	201	MB-14564	Analyzed
19	303	MB-14589	Analyzed
20	304	LCS-14589	Analyzed
21	305	1407F02-001A	IS Check Failed
22	306	1407F02-001AMS	Analyzed
23	307	1407F02-001AMSD	Analyzed
24	202	1407F02-001APS	Analyzed
25	308	1408055-001A	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	309	1408055-002A	Analyzed
30	310	1408055-003A	Analyzed
31	311	1408006-001A 5X	Samp Limit Failed
32	312	1408006-001AMS 5X	Analyzed
33	313	1408006-001AMSD 5X	Analyzed
34	314	1408041-008A	Samp Limit Failed
35	315	1407E34-001D	Samp Limit Failed
36	316	1407B29-002A 50X	Analyzed
37	317	1407E71-001A 50X	Analyzed
38	318	1407E71-002A 50X	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	319	1407E71-003A 50X	Analyzed
43	320	1408006-001A 2X	Samp Limit Failed
44	321	1408006-001AMS 2X	Analyzed
45	322	1408006-001AMSD 2X	Analyzed
46	203	1408006-001APS 2X	Analyzed
47	323	1407E34-001D 5X	Samp Limit Failed
48	324	1407E34-001D 10X	Samp Limit Failed
49	325	1407B29-002A 100X	Analyzed
50	326	1407E71-001A 20X	Analyzed
51	2	CCV	QC Passed
52	1	CCB	QC Passed
53	3	CCV CAT	Analyzed
54	7	DI RINSE	QC Passed

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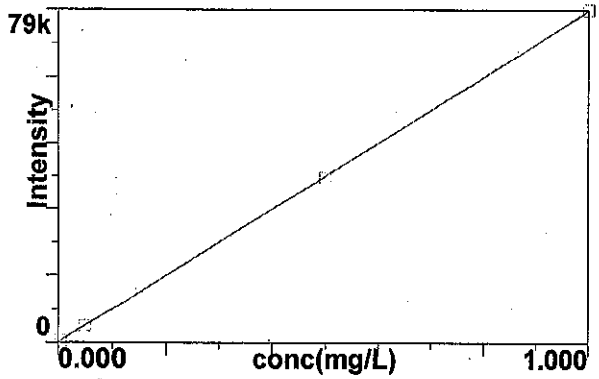

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Corr Coeff: 0.999994

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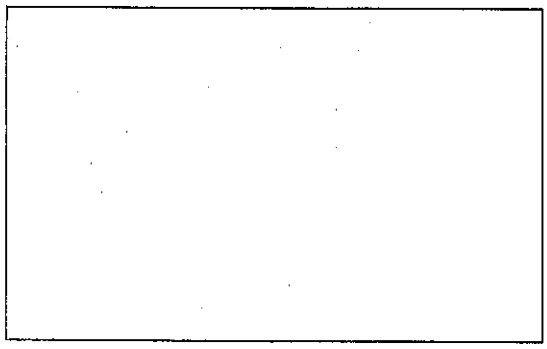

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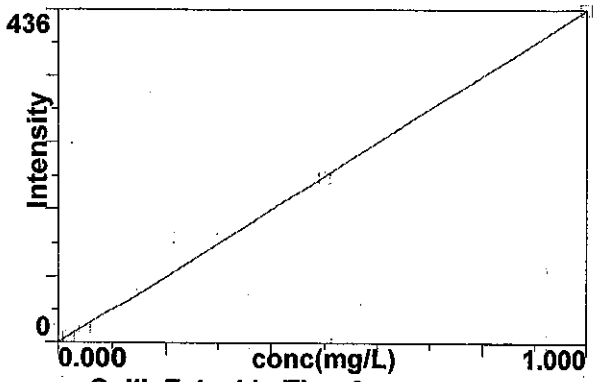

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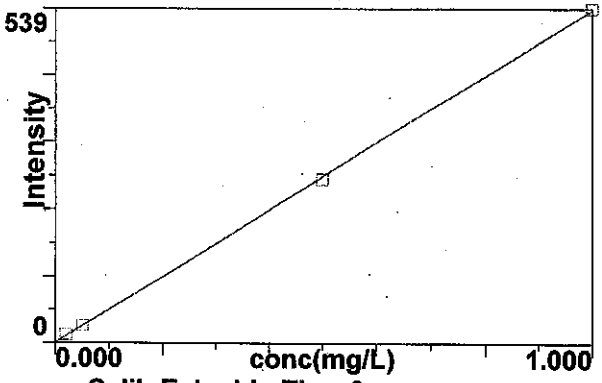

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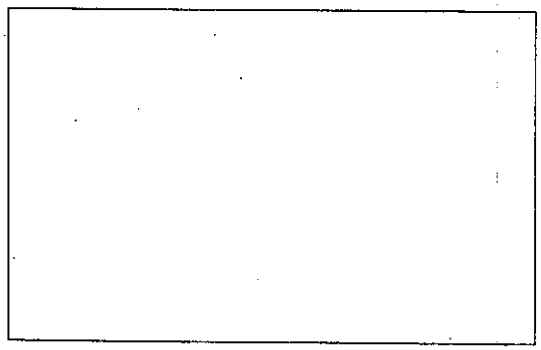

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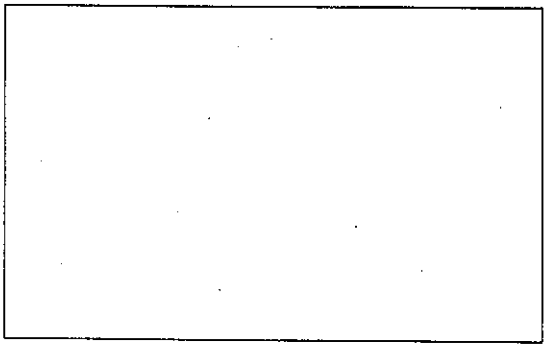

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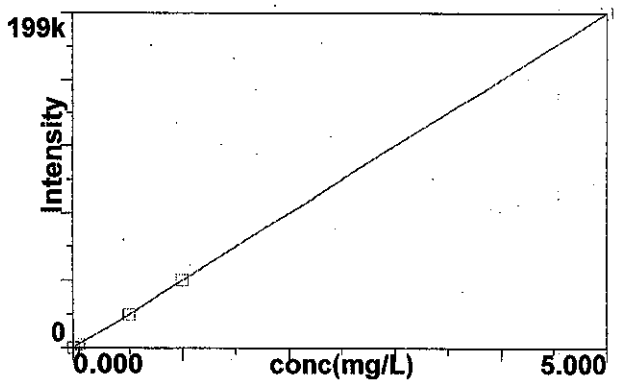

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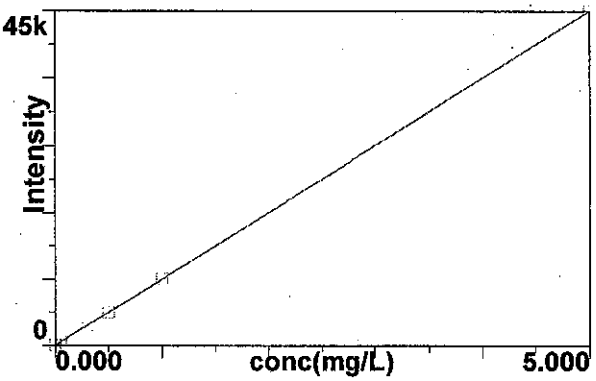

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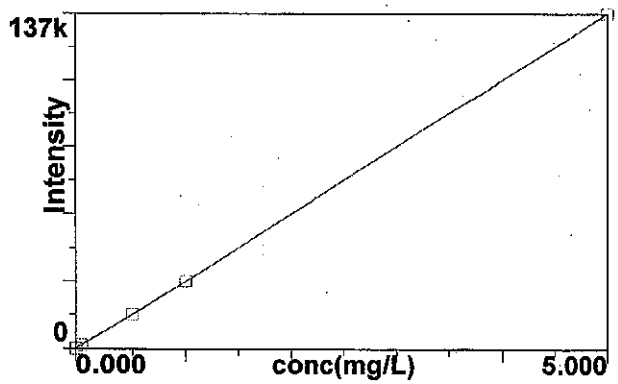

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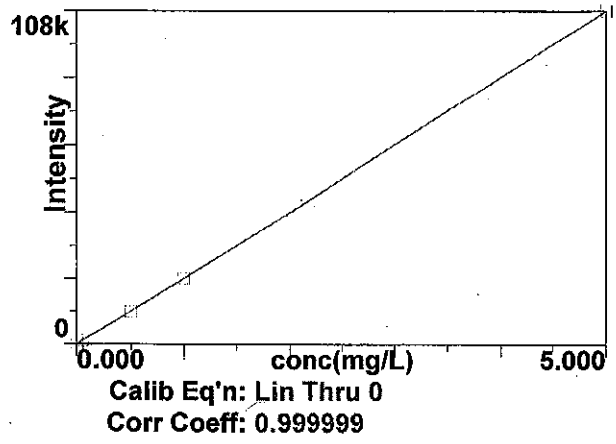

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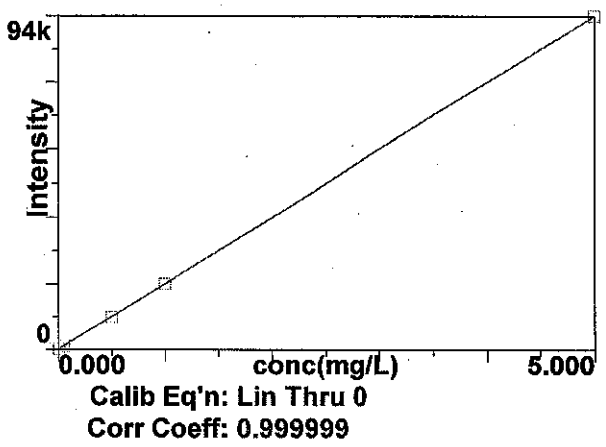

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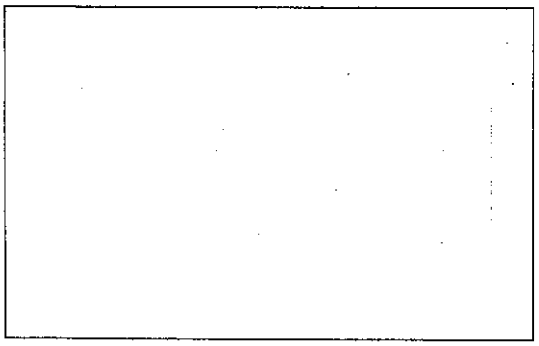

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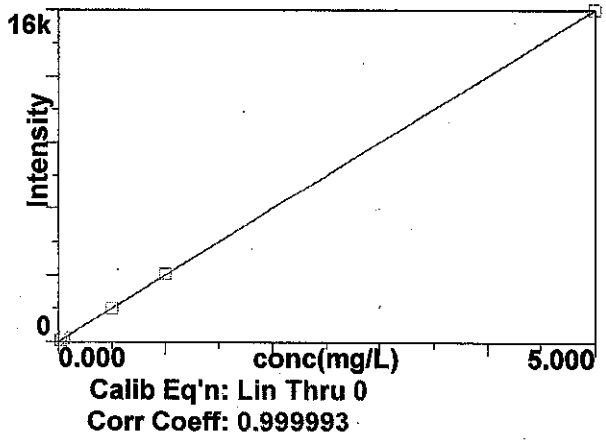

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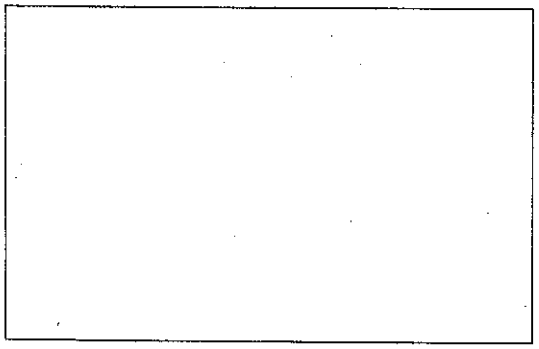

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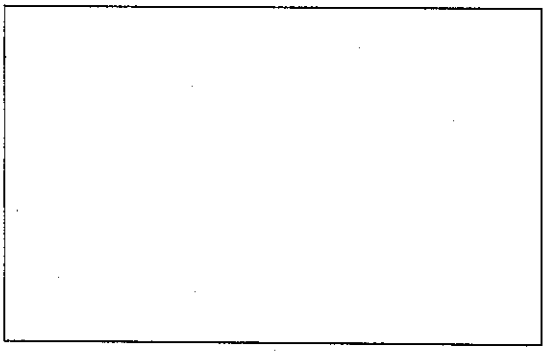

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Method: ISIS 010814 6010SOIL
Result: 080514 B14564

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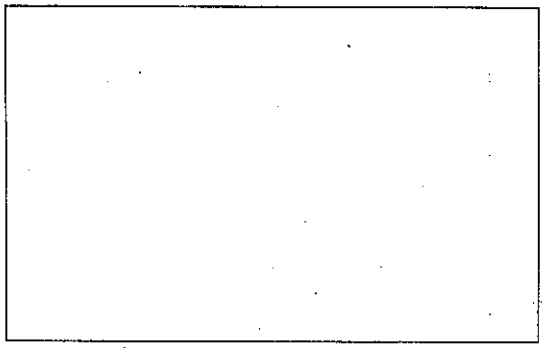

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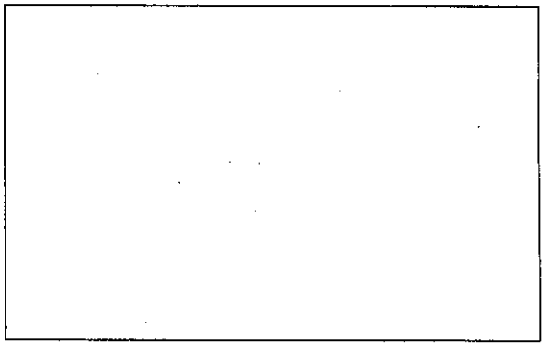

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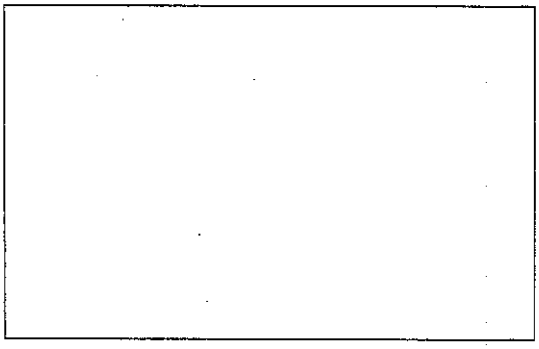

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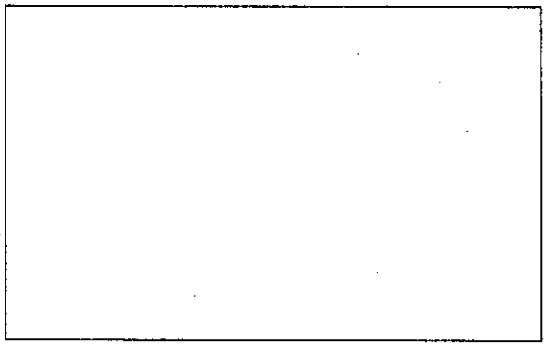

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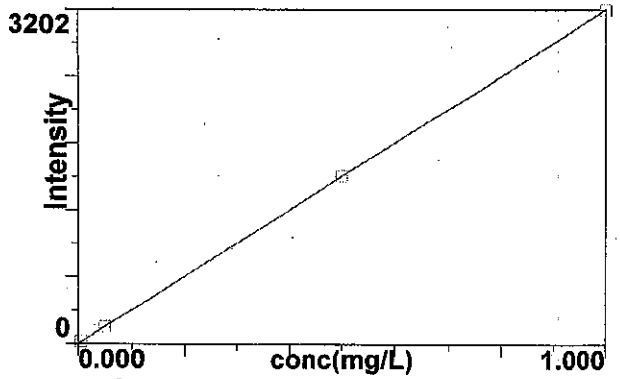
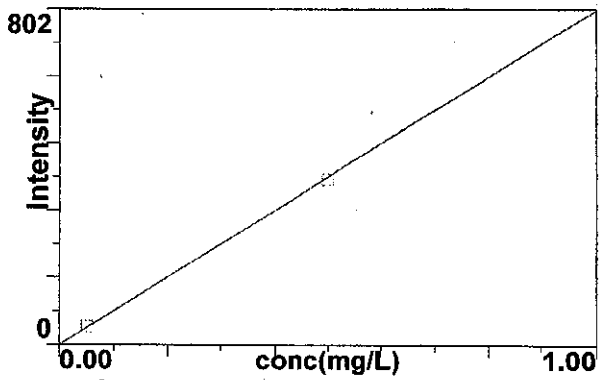


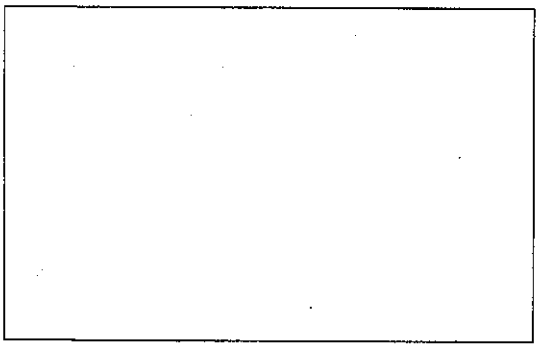
23

Pb 217.000



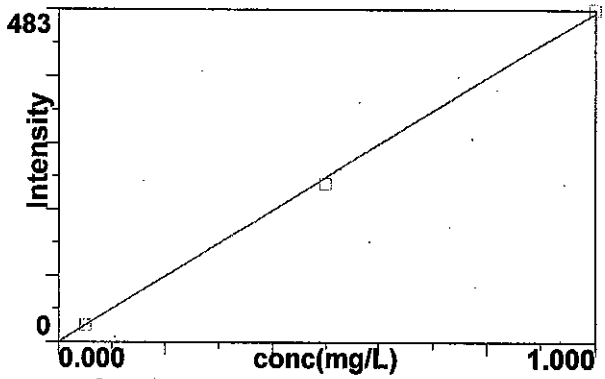
24

Sb 206.836



25

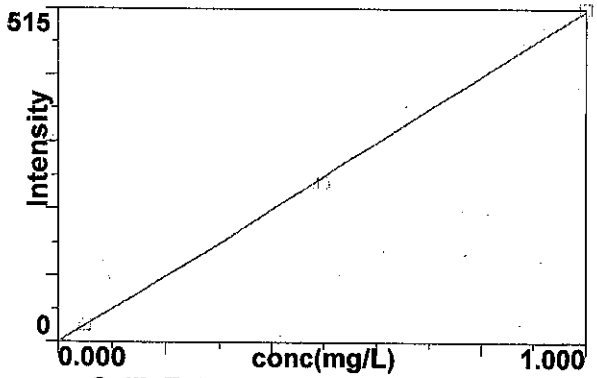
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999818

26

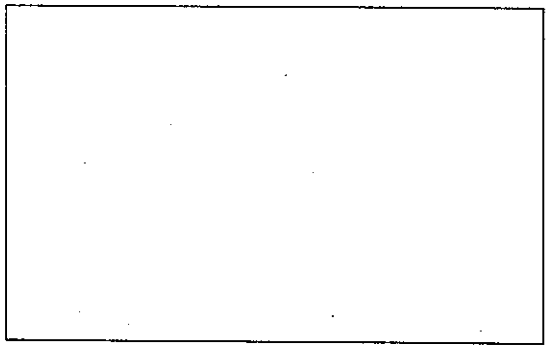
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999840

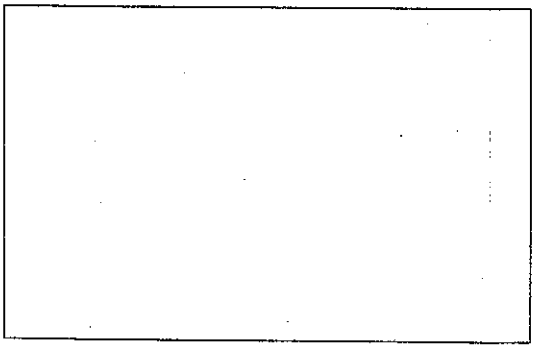
27

Si 212.412



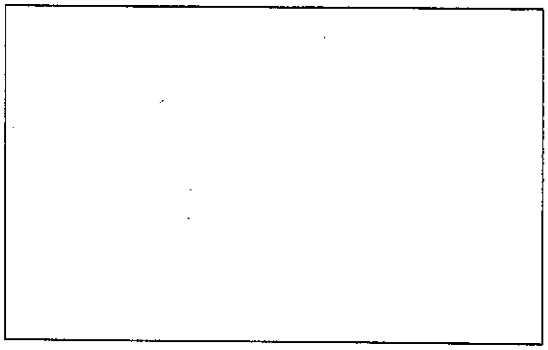
28

Sn 189.927



29

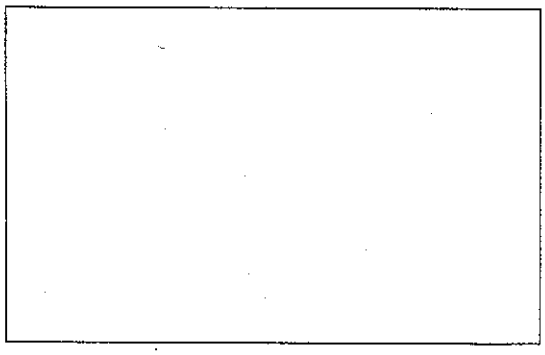
Ti 334.940



30

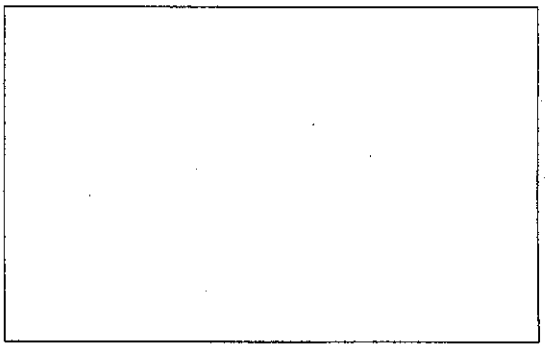
Method: ISIS 010814 6010SOIL
Result: 080514 B14564

Tl 190.801



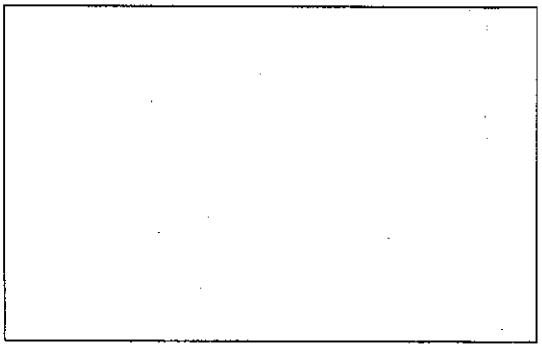
31

U 385.958



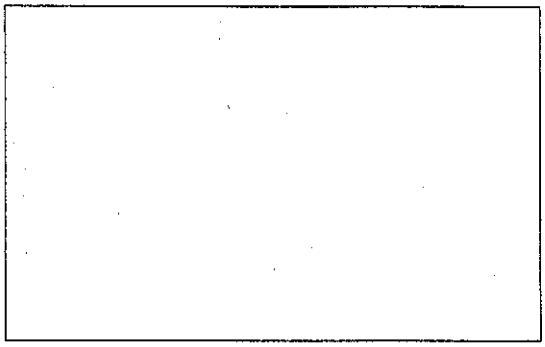
32

V 292.402



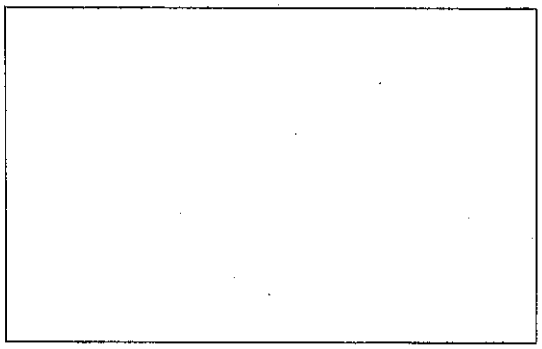
33

Zn 206.200

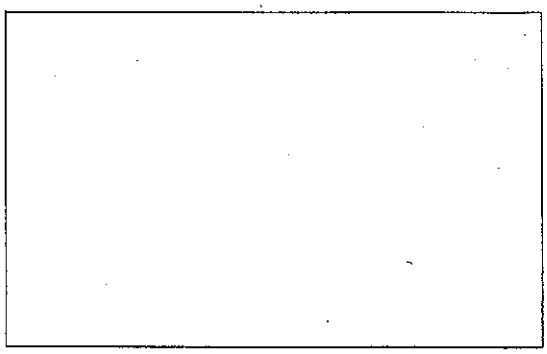


36

Sr 421.552



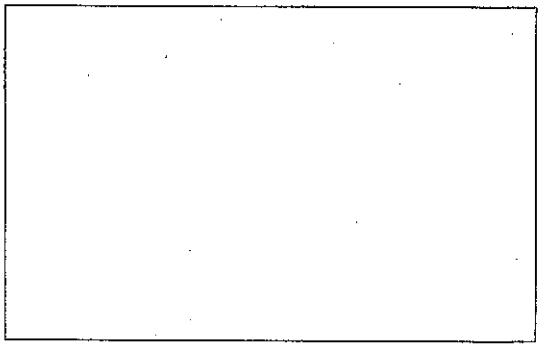
37



38

Method: ISIS 010814 6010SOIL
Result: 080514 B14564

U 424.167



39

Analysis Begun

Start Time: 8/5/2014 9:00:25 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 010814 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 3/27/2014 11:30:19 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/5/2014 9:00:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31650.2	178.73	0.56%	100.00	%
Y 371.029	552569.9	3693.30	0.67%	100.00	%
Ag 328.068†	28.9	15.61	53.98%	[0.00]	mg/L
As 188.979†	7.6	2.52	32.96%	[0.00]	mg/L
As 193.696†	-6.2	1.71	27.53%	[0.00]	mg/L
Ba 233.527†	7.2	13.16	183.48%	[0.00]	mg/L
Cd 228.802†	-14.1	1.46	10.38%	[0.00]	mg/L
Cd 226.502†	23.9	3.60	15.04%	[0.00]	mg/L
Cr 267.716†	-5.3	2.33	44.20%	[0.00]	mg/L
Cr 205.560†	-23.4	5.85	25.00%	[0.00]	mg/L
Fe 238.204†	24.0	3.14	13.09%	[0.00]	mg/L
Pb 220.353†	-20.0	1.35	6.74%	[0.00]	mg/L
Pb 217.000†	5.1	3.66	71.47%	[0.00]	mg/L
Se 203.985†	2.1	3.36	159.15%	[0.00]	mg/L
Se 196.026†	-10.4	6.10	58.92%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/5/2014 9:02:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31458.3	27.90	0.09%	99.394	%

Y 371.029	564164.5	4575.18	0.81%	102.10	%
Ag 328.068†	386.3	12.20	3.16%	[0.005]	mg/L
As 188.979†	7.4	2.00	26.90%	[0.02]	mg/L
As 193.696†	12.9	2.41	18.67%	[0.02]	mg/L
Ba 233.527†	82.4	12.17	14.76%	[0.002]	mg/L
Cd 228.802†	20.4	1.09	5.34%	[0.002]	mg/L
Cd 226.502†	51.8	2.48	4.79%	[0.002]	mg/L
Cr 267.716†	134.6	5.40	4.01%	[0.006]	mg/L
Cr 205.560†	101.2	8.42	8.32%	[0.006]	mg/L
Fe 238.204†	83.6	4.54	5.43%	[0.02]	mg/L
Pb 220.353†	21.0	5.78	27.57%	[0.005]	mg/L

Sequence No.: 3 **Autosampler Location: 409**
Sample ID: ST2 **Date Collected: 8/5/2014 9:04:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32560.8	102.19	0.31%	102.88	%
Y 371.029	560123.6	2246.39	0.40%	101.37	%
Ag 328.068†	3898.0	5.08	0.13%	[0.05]	mg/L
As 188.979†	20.0	0.55	2.75%	[0.050]	mg/L
As 193.696†	27.7	4.57	16.52%	[0.050]	mg/L
Ba 233.527†	2005.4	2.52	0.13%	[0.05]	mg/L
Cd 228.802†	458.7	3.44	0.75%	[0.05]	mg/L
Cd 226.502†	1370.9	15.91	1.16%	[0.05]	mg/L
Cr 267.716†	1093.4	9.20	0.84%	[0.05]	mg/L
Cr 205.560†	924.5	15.62	1.69%	[0.05]	mg/L
Fe 238.204†	184.4	6.55	3.55%	[0.050]	mg/L
Pb 220.353†	160.7	4.14	2.57%	[0.05]	mg/L
Pb 217.000†	42.8	2.92	6.83%	[0.05]	mg/L
Se 203.985†	24.0	3.13	13.06%	[0.050]	mg/L
Se 196.026†	26.2	4.13	15.79%	[0.050]	mg/L

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 8/5/2014 9:06:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32137.0	249.53	0.78%	101.54	%
Y 371.029	563852.6	4103.16	0.73%	102.04	%
Ag 328.068†	39124.9	29.84	0.08%	[0.50]	mg/L
As 188.979†	216.1	2.16	1.00%	[0.50]	mg/L
As 193.696†	263.8	1.34	0.51%	[0.50]	mg/L
Ba 233.527†	19841.0	59.22	0.30%	[0.50]	mg/L
Cd 228.802†	4526.8	32.95	0.73%	[0.50]	mg/L
Cd 226.502†	13636.3	22.10	0.16%	[0.50]	mg/L

Cr 267.716†	10712.2	21.92	0.20%	[0.50] mg/L
Cr 205.560†	9307.9	78.50	0.84%	[0.50] mg/L
Fe 238.204†	1629.6	2.23	0.14%	[0.50] mg/L
Pb 220.353†	1604.1	18.81	1.17%	[0.50] mg/L
Pb 217.000†	393.2	5.30	1.35%	[0.50] mg/L
Se 203.985†	230.1	1.32	0.58%	[0.50] mg/L
Se 196.026†	246.3	7.10	2.88%	[0.50] mg/L

Sequence No.: 5 **Autosampler Location: 410**
Sample ID: ST4 **Date Collected: 8/5/2014 9:07:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31803.5	118.14	0.37%	100.48	%
Y 371.029	562140.7	3838.31	0.68%	101.73	%
Ag 328.068†	78950.0	199.43	0.25%	[1.00]	mg/L
As 188.979†	436.2	5.18	1.19%	[1.00]	mg/L
As 193.696†	539.0	7.39	1.37%	[1.00]	mg/L
Ba 233.527†	40055.4	119.04	0.30%	[1.00]	mg/L
Cd 228.802†	9094.9	87.03	0.96%	[1.00]	mg/L
Cd 226.502†	27582.6	125.03	0.45%	[1.00]	mg/L
Cr 267.716†	21677.1	106.62	0.49%	[1.00]	mg/L
Cr 205.560†	18852.7	62.05	0.33%	[1.00]	mg/L
Fe 238.204†	3303.3	13.35	0.40%	[1.00]	mg/L
Pb 220.353†	3202.0	38.63	1.21%	[1.00]	mg/L
Pb 217.000†	802.2	7.15	0.89%	[1.00]	mg/L
Se 203.985†	483.0	13.32	2.76%	[1.00]	mg/L
Se 196.026†	515.5	2.07	0.40%	[1.00]	mg/L

Sequence No.: 6 **Autosampler Location: 413**
Sample ID: ST5 **Date Collected: 8/5/2014 9:09:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	256.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31742.9	323.37	1.02%	100.29	%
Y 371.029	555742.3	3859.20	0.69%	100.57	%
Ba 233.527†	199295.1	307.95	0.15%	[5.00]	mg/L
Cd 228.802†	45111.8	43.46	0.10%	[5.00]	mg/L
Cd 226.502†	136967.2	267.58	0.20%	[5.00]	mg/L
Cr 267.716†	108233.7	72.32	0.07%	[5.00]	mg/L
Cr 205.560†	94226.0	86.62	0.09%	[5.00]	mg/L
Fe 238.204†	16230.2	46.69	0.29%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	78810	0.00000	0.999994	
As 188.979	4	Lin Thru 0	0.0	435.3	0.00000	0.999983	
As 193.696	4	Lin Thru 0	0.0	536.8	0.00000	0.999957	
Ba 233.527	5	Lin Thru 0	0.0	39860	0.00000	0.999999	
Cd 228.802	5	Lin Thru 0	0.0	9025	0.00000	0.999999	
Cd 226.502	5	Lin Thru 0	0.0	27400	0.00000	0.999999	
Cr 267.716	5	Lin Thru 0	0.0	21650	0.00000	0.999999	
Cr 205.560	5	Lin Thru 0	0.0	18840	0.00000	0.999999	
Fe 238.204	5	Lin Thru 0	0.0	3248	0.00000	0.999993	
Pb 220.353	4	Lin Thru 0	0.0	3203	0.00000	0.999999	
Pb 217.000	3	Lin Thru 0	0.0	799.1	0.00000	0.999964	
Se 203.985	3	Lin Thru 0	0.0	478.4	0.00000	0.999818	
Se 196.026	3	Lin Thru 0	0.0	510.9	0.00000	0.999840	

User canceled analysis.

1m 8/5/14

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Analysis Begun

Start Time: 8/5/2014 9:10:36 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 8/5/2014 9:10:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029 R	32312.9	102.09	%	0.491				0.48%
Y 371.029	557617.2	100.91	%	0.606				0.60%
Ag 328.068†	39925.6	0.50662	mg/L	0.000808	0.50662	mg/L	0.000808	0.16%
QC value within limits for Ag 328.068 Recovery = 101.32%								
As 188.979†	223.1	0.51239	mg/L	0.004763	0.51239	mg/L	0.004763	0.93%
QC value within limits for As 188.979 Recovery = 102.48%								
As 193.696†	272.7	0.50806	mg/L	0.009481	0.50806	mg/L	0.009481	1.87%
Ba 233.527†	20271.4	0.50850	mg/L	0.001069	0.50850	mg/L	0.001069	0.21%
QC value within limits for Ba 233.527 Recovery = 101.70%								
Cd 228.802†	4597.6	0.50940	mg/L	0.001826	0.50940	mg/L	0.001826	0.36%
QC value within limits for Cd 228.802 Recovery = 101.88%								
Cd 226.502†	13917.8	0.50796	mg/L	0.001753	0.50796	mg/L	0.001753	0.35%
Cr 267.716†	10901.0	0.50361	mg/L	0.001018	0.50361	mg/L	0.001018	0.20%
Cr 205.560†	9444.4	0.50121	mg/L	0.003458	0.50121	mg/L	0.003458	0.69%
QC value within limits for Cr 205.560 Recovery = 100.24%								
Fe 238.204†	1699.0	0.52303	mg/L	0.004706	0.52303	mg/L	0.004706	0.90%
QC value within limits for Fe 238.204 Recovery = 104.61%								
Pb 220.353†	1637.8	0.51130	mg/L	0.004753	0.51130	mg/L	0.004753	0.93%
QC value within limits for Pb 220.353 Recovery = 102.26%								
Pb 217.000†	415.9	0.52038	mg/L	0.007678	0.52038	mg/L	0.007678	1.48%
Se 203.985†	241.5	0.50472	mg/L	0.004368	0.50472	mg/L	0.004368	0.87%
Se 196.026†	262.1	0.51296	mg/L	0.005367	0.51296	mg/L	0.005367	1.05%
QC value within limits for Se 196.026 Recovery = 102.59%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/5/2014 9:11:59 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/5/2014 9:11:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	32639.8	103.13	%	0.570				0.55%
Y 371.029	569133.6	103.00	%	0.847				0.82%
Ag 328.068†	-1.9	-0.00002	mg/L	0.000147	-0.00002	mg/L	0.000147	621.72%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.8	0.00195	mg/L	0.006566	0.00195	mg/L	0.006566	336.52%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.3	-0.00235	mg/L	0.003453	-0.00235	mg/L	0.003453	146.86%
Ba 233.527†	7.4	0.00018	mg/L	0.000166	0.00018	mg/L	0.000166	89.74%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-1.5	-0.00017	mg/L	0.000432	-0.00017	mg/L	0.000432	252.31%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-0.0	-0.00000	mg/L	0.000031	-0.00000	mg/L	0.000031	>999.9%
Cr 267.716†	1.5	0.00007	mg/L	0.000098	0.00007	mg/L	0.000098	139.37%
Cr 205.560†	-10.3	-0.00055	mg/L	0.000663	-0.00055	mg/L	0.000663	120.78%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Fe 238.204†	-2.1	-0.00064	mg/L	0.003080	-0.00064	mg/L	0.003080	477.62%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Pb 220.353†	6.7	0.00208	mg/L	0.000592	0.00208	mg/L	0.000592	28.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	3.4	0.00425	mg/L	0.001956	0.00425	mg/L	0.001956	45.98%
Se 203.985†	1.2	0.00243	mg/L	0.005109	0.00243	mg/L	0.005109	210.68%
Se 196.026†	2.0	0.00387	mg/L	0.009950	0.00387	mg/L	0.009950	256.81%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/5/2014 9:13:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32405.0	102.38	%	0.332				0.32%
Y 371.029	558830.6	101.13	%	0.290				0.29%
Ag 328.068†	398.8	0.00506	mg/L	0.000163	0.00506	mg/L	0.000163	3.23%
QC value within limits for Ag 328.068 Recovery = 101.20%								
As 188.979†	4.9	0.01129	mg/L	0.005686	0.01129	mg/L	0.005686	50.37%
QC value within limits for As 188.979 Recovery = 56.44%								
As 193.696†	13.1	0.02440	mg/L	0.002808	0.02440	mg/L	0.002808	11.51%
Ba 233.527†	81.1	0.00203	mg/L	0.000286	0.00203	mg/L	0.000286	14.07%
QC value within limits for Ba 233.527 Recovery = 101.71%								
Cd 228.802†	22.4	0.00248	mg/L	0.000195	0.00248	mg/L	0.000195	7.87%
QC value within limits for Cd 228.802 Recovery = 123.83%								
Cd 226.502†	53.1	0.00194	mg/L	0.000084	0.00194	mg/L	0.000084	4.33%
Cr 267.716†	136.5	0.00630	mg/L	0.000174	0.00630	mg/L	0.000174	2.76%
Cr 205.560†	98.4	0.00522	mg/L	0.000904	0.00522	mg/L	0.000904	17.32%
QC value within limits for Cr 205.560 Recovery = 87.03%								
Fe 238.204†	82.3	0.02535	mg/L	0.002010	0.02535	mg/L	0.002010	7.93%
QC value within limits for Fe 238.204 Recovery = 126.74%								
Pb 220.353†	21.4	0.00668	mg/L	0.003560	0.00668	mg/L	0.003560	53.29%
QC value within limits for Pb 220.353 Recovery = 133.62%								
Pb 217.000†	-2.3	-0.00294	mg/L	0.005417	-0.00294	mg/L	0.005417	184.27%
Se 203.985†	19.6	0.04094	mg/L	0.008311	0.04094	mg/L	0.008311	20.30%
Se 196.026†	30.6	0.05983	mg/L	0.005273	0.05983	mg/L	0.005273	8.81%
QC value within limits for Se 196.026 Recovery = 119.65%								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 8/5/2014 9:15:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32772.8	103.55	%	0.475				0.46%
Y 371.029	564122.5	102.09	%	0.661				0.65%
Ag 328.068†	40913.8	0.51916	mg/L	0.001620	0.51916	mg/L	0.001620	0.31%
QC value within limits for Ag 328.068 Recovery = 103.83%								
As 188.979†	230.6	0.52982	mg/L	0.005013	0.52982	mg/L	0.005013	0.95%
QC value within limits for As 188.979 Recovery = 105.96%								
As 193.696†	241.3	0.44951	mg/L	0.005187	0.44951	mg/L	0.005187	1.15%
Ba 233.527†	20033.8	0.50254	mg/L	0.001478	0.50254	mg/L	0.001478	0.29%
QC value within limits for Ba 233.527 Recovery = 100.51%								
Cd 228.802†	4748.9	0.52617	mg/L	0.002073	0.52617	mg/L	0.002073	0.39%
QC value within limits for Cd 228.802 Recovery = 105.23%								
Cd 226.502†	14040.5	0.51244	mg/L	0.002388	0.51244	mg/L	0.002388	0.47%
Cr 267.716†	10726.3	0.49554	mg/L	0.001698	0.49554	mg/L	0.001698	0.34%
Cr 205.560†	9156.0	0.48590	mg/L	0.000669	0.48590	mg/L	0.000669	0.14%
QC value within limits for Cr 205.560 Recovery = 97.18%								
Fe 238.204†	66335.0	20.421	mg/L	0.0196	20.421	mg/L	0.0196	0.10%
Pb 220.353†	1565.1	0.48859	mg/L	0.000418	0.48859	mg/L	0.000418	0.09%
QC value within limits for Pb 220.353 Recovery = 97.72%								
Pb 217.000†	422.5	0.52865	mg/L	0.002175	0.52865	mg/L	0.002175	0.41%
Se 203.985†	237.0	0.49535	mg/L	0.010469	0.49535	mg/L	0.010469	2.11%
Se 196.026†	270.8	0.53011	mg/L	0.014293	0.53011	mg/L	0.014293	2.70%
QC value within limits for Se 196.026 Recovery = 106.02%								

All analyte(s) passed QC.

Sequence No.: 15 **Autosampler Location: 404**

Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 8/5/2014 9:16:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	32235.5	101.85	%	1.040				1.02%
Y 371.029	564332.0	102.13	%	1.657				1.62%
Ag 328.068†	2.8	0.00004	mg/L	0.000211	0.00004	mg/L	0.000211	595.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.8	0.00403	mg/L	0.012089	0.00403	mg/L	0.012089	299.82%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-38.6	-0.07183	mg/L	0.008407	-0.07183	mg/L	0.008407	11.70%
Ba 233.527†	25.4	0.00064	mg/L	0.000095	0.00064	mg/L	0.000095	14.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.2	-0.00025	mg/L	0.000240	-0.00025	mg/L	0.000240	97.01%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-5.4	-0.00020	mg/L	0.000123	-0.00020	mg/L	0.000123	62.89%
Cr 267.716†	17.7	0.00082	mg/L	0.000202	0.00082	mg/L	0.000202	24.63%
Cr 205.560†	-66.0	-0.00350	mg/L	0.000599	-0.00350	mg/L	0.000599	17.11%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Fe 238.204†	64728.9	19.926	mg/L	0.0364	19.926	mg/L	0.0364	0.18%
Pb 220.353†	-23.9	-0.00747	mg/L	0.001457	-0.00747	mg/L	0.001457	19.51%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	13.4	0.01675	mg/L	0.008222	0.01675	mg/L	0.008222	49.09%
Se 203.985†	-19.5	-0.04076	mg/L	0.011108	-0.04076	mg/L	0.011108	27.26%
Se 196.026†	-19.4	-0.03790	mg/L	0.007934	-0.03790	mg/L	0.007934	20.93%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-14564
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 8/5/2014 9:18:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14564

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

See RR. 8/5/14

Mean Data: MB-14564

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31379.3	99.144	%	0.5496				0.55%
Y 371.029	550985.1	99.713	%	0.7342				0.74%
Ag 328.068†	23.3	0.00030	mg/L	0.000191	0.00030	mg/L	0.000191	64.56%
As 188.979†	-3.3	-0.00757	mg/L	0.005751	-0.00757	mg/L	0.005751	75.97%
As 193.696†	2.5	0.00468	mg/L	0.007067	0.00468	mg/L	0.007067	151.06%
Ba 233.527†	10.2	0.00025	mg/L	0.000456	0.00025	mg/L	0.000456	179.14%
Cd 228.802†	2.9	0.00033	mg/L	0.000159	0.00033	mg/L	0.000159	48.73%
Cd 226.502†	-0.3	-0.00001	mg/L	0.000052	-0.00001	mg/L	0.000052	488.95%
Cr 267.716†	12.6	0.00058	mg/L	0.000177	0.00058	mg/L	0.000177	30.37%
Cr 205.560†	-20.9	-0.00111	mg/L	0.000448	-0.00111	mg/L	0.000448	40.50%
Fe 238.204†	153.8	0.04736	mg/L	0.003291	0.04736	mg/L	0.003291	6.95%
Pb 220.353†	2.9	0.00089	mg/L	0.000911	0.00089	mg/L	0.000911	101.84%
Pb 217.000†	5.9	0.00732	mg/L	0.006957	0.00732	mg/L	0.006957	95.03%
Se 203.985†	-0.8	-0.00173	mg/L	0.012792	-0.00173	mg/L	0.012792	740.56%

Se 196.026†	2.1	0.00414 mg/L	0.013383	0.00414 mg/L	0.013383	323.32%	

Sequence No.: 17
Sample ID: LCS-14564
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 8/5/2014 9:20:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14564

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: LCS-14564

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31509.2	99.554	%	0.7151				0.72%
Y 371.029	545061.5	98.641	%	0.6257				0.63%
Ag 328.068†	7094.1	0.09002	mg/L	0.000224	0.09002	mg/L	0.000224	0.25%
As 188.979†	220.1	0.50570	mg/L	0.004549	0.50570	mg/L	0.004549	0.90%
As 193.696†	273.2	0.50902	mg/L	0.001692	0.50902	mg/L	0.001692	0.33%
Ba 233.527†	19697.8	0.49412	mg/L	0.000954	0.49412	mg/L	0.000954	0.19%
Cd 228.802†	4548.2	0.50393	mg/L	0.004051	0.50393	mg/L	0.004051	0.80%
Cd 226.502†	13552.2	0.49462	mg/L	0.001213	0.49462	mg/L	0.001213	0.25%
Cr 267.716†	10749.5	0.49661	mg/L	0.001467	0.49661	mg/L	0.001467	0.30%
Cr 205.560†	9279.1	0.49243	mg/L	0.004463	0.49243	mg/L	0.004463	0.91%
Fe 238.204†	1717.6	0.52875	mg/L	0.002427	0.52875	mg/L	0.002427	0.46%
Pb 220.353†	1563.5	0.48809	mg/L	0.001811	0.48809	mg/L	0.001811	0.37%
Pb 217.000†	402.7	0.50389	mg/L	0.016730	0.50389	mg/L	0.016730	3.32%
Se 203.985†	211.2	0.44136	mg/L	0.010928	0.44136	mg/L	0.010928	2.48%
Se 196.026†	246.3	0.48202	mg/L	0.010878	0.48202	mg/L	0.010878	2.26%

Matrix Recovery Check: LCS-14564

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	0.54736	0.52875	0.002	mg/L	96.3
Ag 328.068	0.10030	0.09002	0.000	mg/L	89.7
As 188.979	0.49243	0.50570	0.005	mg/L	102.7
As 193.696	0.50468	0.50902	0.002	mg/L	100.9
Ba 233.527	0.50025	0.49412	0.001	mg/L	98.8
Cd 228.802	0.50033	0.50393	0.004	mg/L	100.7
Cd 226.502	0.49999	0.49462	0.001	mg/L	98.9
Cr 267.716	0.50058	0.49661	0.001	mg/L	99.2
Cr 205.560	0.49889	0.49243	0.004	mg/L	98.7
Pb 220.353	0.50089	0.48809	0.002	mg/L	97.4
Pb 217.000	0.50732	0.50389	0.017	mg/L	99.3
Se 203.985	0.49827	0.44136	0.011	mg/L	88.6
Se 196.026	0.50414	0.48202	0.011	mg/L	95.6

Sequence No.: 18
Sample ID: MB-14564
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 201
Date Collected: 8/5/2014 9:21:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14564

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: MB-14564

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 371.029 R	32012.3	101.14 %	0.319				0.32%
Y 371.029	558203.6	101.02 %	0.555				0.55%
Ag 328.068†	4.5	0.00006 mg/L	0.000272	0.00006	mg/L	0.000272	471.99%
As 188.979†	-2.0	-0.00465 mg/L	0.010858	-0.00465	mg/L	0.010858	233.70%
As 193.696†	3.9	0.00733 mg/L	0.002527	0.00733	mg/L	0.002527	34.49%
Ba 233.527†	19.0	0.00048 mg/L	0.000219	0.00048	mg/L	0.000219	45.76%
Cd 228.802†	2.5	0.00027 mg/L	0.000269	0.00027	mg/L	0.000269	98.59%
Cd 226.502†	-0.8	-0.00003 mg/L	0.000071	-0.00003	mg/L	0.000071	238.52%
Cr 267.716†	10.5	0.00048 mg/L	0.000247	0.00048	mg/L	0.000247	50.95%
Cr 205.560†	-18.7	-0.00099 mg/L	0.000646	-0.00099	mg/L	0.000646	65.05%
Fe 238.204†	95.4	0.02936 mg/L	0.002591	0.02936	mg/L	0.002591	8.83%
Pb 220.353†	8.0	0.00250 mg/L	0.001285	0.00250	mg/L	0.001285	51.37%
Pb 217.000†	2.3	0.00287 mg/L	0.001273	0.00287	mg/L	0.001273	44.34%
Se 203.985†	-3.9	-0.00806 mg/L	0.010885	-0.00806	mg/L	0.010885	134.99%
Se 196.026†	2.9	0.00559 mg/L	0.017129	0.00559	mg/L	0.017129	306.63%

>PQL. See CAR #4796. MR 8/5/14

Sequence No.: 19
Sample ID: MB-14589
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 8/5/2014 9:23:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14589

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: MB-14589

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30814.0	97.358	%	0.1509				0.15%
Y 371.029	524747.2	94.965	%	0.7676				0.81%
Ag 328.068†	-4.9	-0.00006	mg/L	0.000191	-0.00006	mg/L	0.000191	306.71%
As 188.979†	-3.1	-0.00723	mg/L	0.003442	-0.00723	mg/L	0.003442	47.64%
As 193.696†	2.3	0.00426	mg/L	0.012780	0.00426	mg/L	0.012780	300.21%
Ba 233.527†	9.0	0.00023	mg/L	0.000262	0.00023	mg/L	0.000262	116.35%
Cd 228.802†	6.5	0.00071	mg/L	0.000133	0.00071	mg/L	0.000133	18.66%
Cd 226.502†	-5.1	-0.00019	mg/L	0.000244	-0.00019	mg/L	0.000244	130.06%
Cr 267.716†	16.6	0.00077	mg/L	0.000063	0.00077	mg/L	0.000063	8.25%
Cr 205.560†	-36.0	-0.00191	mg/L	0.000720	-0.00191	mg/L	0.000720	37.75%
Fe 238.204†	91.8	0.02825	mg/L	0.002247	0.02825	mg/L	0.002247	7.95%
Pb 220.353†	13.7	0.00429	mg/L	0.002758	0.00429	mg/L	0.002758	64.25%
Pb 217.000†	5.0	0.00622	mg/L	0.000711	0.00622	mg/L	0.000711	11.43%
Se 203.985†	-7.8	-0.01639	mg/L	0.008620	-0.01639	mg/L	0.008620	52.59%
Se 196.026†	6.8	0.01331	mg/L	0.022058	0.01331	mg/L	0.022058	165.70%

MR 8/5/14

Sequence No.: 20
Sample ID: LCS-14589
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 8/5/2014 9:25:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14589

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: LCS-14589

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30075.2	95.024	%	0.5549				0.58%
Y 371.029	509056.2	92.125	%	0.4426				0.48%
Ag 328.068†	6874.5	0.08723	mg/L	0.000046	0.08723	mg/L	0.000046	0.05%
As 188.979†	210.0	0.48250	mg/L	0.008951	0.48250	mg/L	0.008951	1.86%

As 193.696†	262.1	0.48830 mg/L	0.006671	0.48830 mg/L	0.006671	1.37%
Ba 233.527†	19262.2	0.48319 mg/L	0.001699	0.48319 mg/L	0.001699	0.35%
Cd 228.802†	4417.1	0.48940 mg/L	0.005126	0.48940 mg/L	0.005126	1.05%
Cd 226.502†	13006.7	0.47470 mg/L	0.002446	0.47470 mg/L	0.002446	0.52%
Cr 267.716†	10605.7	0.48996 mg/L	0.002810	0.48996 mg/L	0.002810	0.57%
Cr 205.560†	9189.4	0.48767 mg/L	0.004298	0.48767 mg/L	0.004298	0.88%
Fe 238.204†	1704.2	0.52462 mg/L	0.003510	0.52462 mg/L	0.003510	0.67%
Pb 220.353†	1512.1	0.47204 mg/L	0.001405	0.47204 mg/L	0.001405	0.30%
Pb 217.000†	398.0	0.49801 mg/L	0.009141	0.49801 mg/L	0.009141	1.84%
Se 203.985†	200.1	0.41832 mg/L	0.004703	0.41832 mg/L	0.004703	1.12%
Se 196.026†	234.1	0.45823 mg/L	0.013661	0.45823 mg/L	0.013661	2.98%

Matrix Recovery Check: LCS-14589

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	0.52825	0.52462	0.004	mg/L	99.3
Ag 328.068	0.09994	0.08723	0.000	mg/L	87.3
As 188.979	0.49277	0.48250	0.009	mg/L	97.9
As 193.696	0.50426	0.48830	0.007	mg/L	96.8
Ba 233.527	0.50023	0.48319	0.002	mg/L	96.6
Cd 228.802	0.50071	0.48940	0.005	mg/L	97.7
Cd 226.502	0.49981	0.47470	0.002	mg/L	95.0
Cr 267.716	0.50077	0.48996	0.003	mg/L	97.8
Cr 205.560	0.49809	0.48767	0.004	mg/L	97.9
Pb 220.353	0.50429	0.47204	0.001	mg/L	93.5
Pb 217.000	0.50622	0.49801	0.009	mg/L	98.4
Se 203.985	0.48361	0.41832	0.005	mg/L	86.9
Se 196.026	0.51331	0.45823	0.014	mg/L	89.0

Sequence No.: 21
Sample ID: 1407F02-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 305
Date Collected: 8/5/2014 9:26:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407F02-001A

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: 1407F02-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	39568.7	125.02	%	0.157				0.13%
Internal Standard Check greater than the upper limit for Y 371.029 R. Recovery = 125.0%								
Y 371.029	65546.1	119.18	%	0.923				0.77%
Ag 328.068†	-184.6	-0.00234	mg/L	0.000362	-0.00234	mg/L	0.000362	15.45%
As 188.979†	15.8	0.03638	mg/L	0.008955	0.03638	mg/L	0.008955	24.62%
As 193.696†	-92.3	-0.17201	mg/L	0.019026	-0.17201	mg/L	0.019026	11.06%
Ba 233.527†	79516.6	1.9947	mg/L	0.00505	1.9947	mg/L	0.00505	0.25%
Cd 228.802†	-6.7	-0.00074	mg/L	0.000474	-0.00074	mg/L	0.000474	63.98%
Cd 226.502†	-156.5	-0.00571	mg/L	0.000275	-0.00571	mg/L	0.000275	4.81%
Cr 267.716†	3037.1	0.14031	mg/L	0.001533	0.14031	mg/L	0.001533	1.09%
Cr 205.560†	2274.8	0.12072	mg/L	0.001143	0.12072	mg/L	0.001143	0.95%
Fe 238.204†	599428.4	184.53	mg/L	0.334	184.53	mg/L	0.334	0.18%
Pb 220.353†	175.8	0.05488	mg/L	0.002478	0.05488	mg/L	0.002478	4.51%
Pb 217.000†	94.0	0.11765	mg/L	0.003606	0.11765	mg/L	0.003606	3.07%
Se 203.985†	-0.9	-0.00191	mg/L	0.013289	-0.00191	mg/L	0.013289	695.40%
Se 196.026†	-37.7	-0.07375	mg/L	0.017943	-0.07375	mg/L	0.017943	24.33%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								

Internal Standard Check failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 8/5/2014 9:28:28 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 22
Sample ID: 1407F02-001AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 306
Date Collected: 8/5/2014 9:28:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1407F02-001AMS

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: 1407F02-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	657019.9	118.90	%	0.184				0.15%
Ag 328.068†	5650.2	0.07170	mg/L	0.000585	0.07170	mg/L	0.000585	0.82%
As 188.979†	196.4	0.45123	mg/L	0.008530	0.45123	mg/L	0.008530	1.89%
As 193.696†	66.9	0.12463	mg/L	0.007266	0.12463	mg/L	0.007266	5.83%
Ba 233.527†	67683.7	1.6978	mg/L	0.00058	1.6978	mg/L	0.00058	0.03%
Cd 228.802†	3592.3	0.39802	mg/L	0.000183	0.39802	mg/L	0.000183	0.05%
Cd 226.502†	9753.8	0.35598	mg/L	0.000274	0.35598	mg/L	0.000274	0.08%
Cr 267.716†	11599.2	0.53586	mg/L	0.001920	0.53586	mg/L	0.001920	0.36%
Cr 205.560†	9686.9	0.51408	mg/L	0.001440	0.51408	mg/L	0.001440	0.28%
Pb 220.353†	1299.2	0.40559	mg/L	0.004895	0.40559	mg/L	0.004895	1.21%
Pb 217.000†	437.1	0.54691	mg/L	0.002537	0.54691	mg/L	0.002537	0.46%
Se 203.985†	185.6	0.38794	mg/L	0.016673	0.38794	mg/L	0.016673	4.30%
Se 196.026†	145.5	0.28479	mg/L	0.004544	0.28479	mg/L	0.004544	1.60%

Matrix Recovery Check: 1407F02-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09766	0.07170	0.001	mg/L	74.0
As 188.979	0.53638	0.45123	0.009	mg/L	83.0
As 193.696	0.32799	0.12463	0.007	mg/L	59.3
Ba 233.527	2.4947	1.6978	0.001	mg/L	-59.4
Cd 228.802	0.49926	0.39802	0.000	mg/L	79.8
Cd 226.502	0.49429	0.35598	0.000	mg/L	72.3
Cr 267.716	0.64031	0.53586	0.002	mg/L	79.1
Cr 205.560	0.62072	0.51408	0.001	mg/L	78.7
Pb 220.353	0.55488	0.40559	0.005	mg/L	70.1
Pb 217.000	0.61765	0.54691	0.003	mg/L	85.9
Se 203.985	0.49809	0.38794	0.017	mg/L	78.0
Se 196.026	0.42625	0.28479	0.005	mg/L	71.7

Sequence No.: 23
Sample ID: 1407F02-001AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 307
Date Collected: 8/5/2014 9:29:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407F02-001AMSD

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: 1407F02-001AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	646977.1	117.09	%	0.371				0.32%
Ag 328.068†	5616.0	0.07126	mg/L	0.000153	0.07126	mg/L	0.000153	0.21%
As 188.979†	195.8	0.44982	mg/L	0.008882	0.44982	mg/L	0.008882	1.97%
As 193.696†	83.1	0.15485	mg/L	0.007933	0.15485	mg/L	0.007933	5.12%
Ba 233.527†	65454.9	1.6419	mg/L	0.00195	1.6419	mg/L	0.00195	0.12%
Cd 228.802†	3603.1	0.39922	mg/L	0.003179	0.39922	mg/L	0.003179	0.80%
Cd 226.502†	9726.9	0.35500	mg/L	0.000816	0.35500	mg/L	0.000816	0.23%
Cr 267.716†	11407.5	0.52701	mg/L	0.001078	0.52701	mg/L	0.001078	0.20%
Cr 205.560†	9576.2	0.50820	mg/L	0.006441	0.50820	mg/L	0.006441	1.27%
Pb 220.353†	1283.8	0.40079	mg/L	0.005760	0.40079	mg/L	0.005760	1.44%
Pb 217.000†	439.9	0.55046	mg/L	0.008976	0.55046	mg/L	0.008976	1.63%
Se 203.985†	189.3	0.39559	mg/L	0.040446	0.39559	mg/L	0.040446	10.22%
Se 196.026†	161.7	0.31644	mg/L	0.018832	0.31644	mg/L	0.018832	5.95%

Matrix Recovery Check: 1407F02-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09766	0.07126	0.000	mg/L	73.6
As 188.979	0.53638	0.44982	0.009	mg/L	82.7
As 193.696	0.32799	0.15485	0.008	mg/L	65.4
Ba 233.527	2.4947	1.6419	0.002	mg/L	-70.5
Cd 228.802	0.49926	0.39922	0.003	mg/L	80.0
Cd 226.502	0.49429	0.35500	0.001	mg/L	72.1
Cr 267.716	0.64031	0.52701	0.001	mg/L	77.3
Cr 205.560	0.62072	0.50820	0.006	mg/L	77.5
Pb 220.353	0.55488	0.40079	0.006	mg/L	69.2
Pb 217.000	0.61765	0.55046	0.009	mg/L	86.6
Se 203.985	0.49809	0.39559	0.040	mg/L	79.5
Se 196.026	0.42625	0.31644	0.019	mg/L	78.0

User canceled analysis.

Analysis Begun

Start Time: 8/5/2014 9:31:01 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 24
Sample ID: 1407F02-001APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 202
Date Collected: 8/5/2014 9:31:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1407F02-001APS

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: 1407F02-001APS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	657755.0	119.04	%	0.174				0.15%
Ag 328.068†	5939.0	0.07536	mg/L	0.000677	0.07536	mg/L	0.000677	0.90%
As 188.979†	190.0	0.43655	mg/L	0.016752	0.43655	mg/L	0.016752	3.84%
As 193.696†	114.0	0.21233	mg/L	0.007585	0.21233	mg/L	0.007585	3.57%
Ba 233.527†	92554.6	2.3217	mg/L	0.00404	2.3217	mg/L	0.00404	0.17%

Cd 228.802†	3496.9	0.38745 mg/L	0.000787	0.38745 mg/L	0.000787	0.20%
Cd 226.502†	9571.6	0.34934 mg/L	0.001265	0.34934 mg/L	0.001265	0.36%
Cr 267.716†	10843.3	0.50094 mg/L	0.000916	0.50094 mg/L	0.000916	0.18%
Cr 205.560†	9091.0	0.48245 mg/L	0.001481	0.48245 mg/L	0.001481	0.31%
Pb 220.353†	1309.1	0.40867 mg/L	0.002779	0.40867 mg/L	0.002779	0.68%
Pb 217.000†	403.4	0.50485 mg/L	0.015536	0.50485 mg/L	0.015536	3.08%
Se 203.985†	166.4	0.34782 mg/L	0.009822	0.34782 mg/L	0.009822	2.82%
Se 196.026†	168.7	0.33011 mg/L	0.004867	0.33011 mg/L	0.004867	1.47%

Sequence No.: 25
Sample ID: 1408055-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 308
Date Collected: 8/5/2014 9:32:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408055-001A

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: 1408055-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	593121.8	107.34	%	0.600				0.56%
Ag 328.068†	-100.7	-0.00128	mg/L	0.000228	-0.00128	mg/L	0.000228	17.85%
As 188.979†	9.0	0.02057	mg/L	0.013368	0.02057	mg/L	0.013368	64.99%
As 193.696†	-66.3	-0.12355	mg/L	0.010345	-0.12355	mg/L	0.010345	8.37%
Ba 233.527†	73491.9	1.8435	mg/L	0.00146	1.8435	mg/L	0.00146	0.08%
Cd 228.802†	22.3	0.00247	mg/L	0.000182	0.00247	mg/L	0.000182	7.37%
Cd 226.502†	-54.8	-0.00200	mg/L	0.000181	-0.00200	mg/L	0.000181	9.05%
Cr 267.716†	2757.7	0.12740	mg/L	0.000216	0.12740	mg/L	0.000216	0.17%
Cr 205.560†	2103.3	0.11162	mg/L	0.000265	0.11162	mg/L	0.000265	0.24%
Pb 220.353†	3001.7	0.93706	mg/L	0.002536	0.93706	mg/L	0.002536	0.27%
Pb 217.000†	854.8	1.0697	mg/L	0.01149	1.0697	mg/L	0.01149	1.07%
Se 203.985†	-35.1	-0.07343	mg/L	0.005933	-0.07343	mg/L	0.005933	8.08%
Se 196.026†	-21.0	-0.04107	mg/L	0.008792	-0.04107	mg/L	0.008792	21.41%

User canceled analysis.

Analysis Begun

Start Time: 8/5/2014 9:33:35 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/5/2014 8:28:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\080514 B14564.sif
Batch ID: 080514 B14564
Results Data Set: 080514 B14564
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 2
Date Collected: 8/5/2014 9:33:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 371.029 R	32325.1	102.13 %	0.500				0.49%
Y 371.029	560267.8	101.39 %	0.413				0.41%
Ag 328.068†	39565.9	0.50205 mg/L	0.001387	0.50205 mg/L	0.001387		0.28%
QC value within limits for Ag 328.068 Recovery = 100.41%							
As 188.979†	218.2	0.50134 mg/L	0.006415	0.50134 mg/L	0.006415		1.28%
QC value within limits for As 188.979 Recovery = 100.27%							
As 193.696†	271.8	0.50641 mg/L	0.001247	0.50641 mg/L	0.004117		0.81%
Ba 233.527†	19951.5	0.50048 mg/L	0.001247	0.50048 mg/L	0.001247		0.25%
QC value within limits for Ba 233.527 Recovery = 100.10%							
Cd 228.802†	4596.1	0.50924 mg/L	0.002660	0.50924 mg/L	0.002660		0.52%
QC value within limits for Cd 228.802 Recovery = 101.85%							
Cd 226.502†	13725.1	0.50092 mg/L	0.000400	0.50092 mg/L	0.000400		0.08%
Cr 267.716†	10828.5	0.50026 mg/L	0.001759	0.50026 mg/L	0.001759		0.35%
Cr 205.560†	9411.5	0.49946 mg/L	0.003118	0.49946 mg/L	0.003118		0.62%
QC value within limits for Cr 205.560 Recovery = 99.89%							
Fe 238.204†	1658.1	0.51044 mg/L	0.000334	0.51044 mg/L	0.000334		0.07%
QC value within limits for Fe 238.204 Recovery = 102.09%							
Pb 220.353†	1606.5	0.50153 mg/L	0.006215	0.50153 mg/L	0.006215		1.24%
QC value within limits for Pb 220.353 Recovery = 100.31%							
Pb 217.000†	403.2	0.50456 mg/L	0.004377	0.50456 mg/L	0.004377		0.87%
Se 203.985†	229.7	0.48012 mg/L	0.016686	0.48012 mg/L	0.016686		3.48%
Se 196.026†	255.1	0.49931 mg/L	0.003901	0.49931 mg/L	0.003901		0.78%
QC value within limits for Se 196.026 Recovery = 99.86%							

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/5/2014 9:35:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32523.3	102.76	%	0.601				0.58%
Y 371.029	583945.5	105.68	%	0.451				0.43%
Ag 328.068†	2.0	0.00003	mg/L	0.000195	0.00003	mg/L	0.000195	760.84%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.5	-0.00109	mg/L	0.001084	-0.00109	mg/L	0.001084	99.63%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.6	-0.00114	mg/L	0.007660	-0.00114	mg/L	0.007660	669.03%
Ba 233.527†	-5.0	-0.00012	mg/L	0.000443	-0.00012	mg/L	0.000443	355.11%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.3	-0.00004	mg/L	0.000108	-0.00004	mg/L	0.000108	286.77%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	0.7	0.00002	mg/L	0.000066	0.00002	mg/L	0.000066	275.50%
Cr 267.716†	5.6	0.00026	mg/L	0.000326	0.00026	mg/L	0.000326	124.84%
Cr 205.560†	-2.1	-0.00011	mg/L	0.000099	-0.00011	mg/L	0.000099	90.62%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Fe 238.204†	17.7	0.00546	mg/L	0.001657	0.00546	mg/L	0.001657	30.36%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Pb 220.353†	6.9	0.00214	mg/L	0.000946	0.00214	mg/L	0.000946	44.19%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	2.7	0.00336	mg/L	0.006093	0.00336	mg/L	0.006093	181.38%
Se 203.985†	-0.5	-0.00100	mg/L	0.009994	-0.00100	mg/L	0.009994	998.05%
Se 196.026†	-0.6	-0.00116	mg/L	0.006674	-0.00116	mg/L	0.006674	574.46%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT

Autosampler Location: 3
Date Collected: 8/5/2014 9:37:02 AM

8/22/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408A76**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-001
Client Sample ID: FFOR-CF-0048
Collection Date: 8/20/2014 3:20:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	4.9	1.0		wt%	1	R20734	8/21/2014 8:35:00 AM

Lab ID: 1408A76-002
Client Sample ID: FFOR-CF-0049
Collection Date: 8/20/2014 3:31:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.1	1.0		wt%	1	R20734	8/21/2014 8:35:00 AM

Lab ID: 1408A76-003
Client Sample ID: FFOR-CF-0050
Collection Date: 8/20/2014 3:40:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	3.3	1.0		wt%	1	R20734	8/21/2014 8:35:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-21-14		Thermometer ID: P-MOIST THERM-4	
Oven Name: Hephaestus	Analyst: cg	Thermometer Exp Date: 7/17/2015	
Start time: 8-21-14 8:35am	Start Temp: 110C	Reviewed by:	8/22/14
End time: 8-22-14 8:09am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408a76-001a	31.9	40.94				9.0350		#VALUE!
1408a76-002a	32.0	39.89				7.9140		#VALUE!
1408a76-003a	31.8	40.61				8.7640		#VALUE!
MeOH Kits								#VALUE!
1408a76-001a	25.9	41.29	1.00	2.00	2.00	15.3900	0.0000	0.6498
1408a76-002a	25.9	40.90	1.00	2.00	2.00	15.0000	0.0000	0.6667
1408a76-003a	25.8	41.43	1.00	2.00	2.00	15.6300	0.0000	0.6398
Pmoist								#VALUE!
1408a76-001a			1.40	21.50	20.51		4.9254	#VALUE!
1408a76-002a			1.40	22.30	20.81		7.1292	#VALUE!
1408a76-003a			1.36	25.53	24.69		3.2902	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408a76-001a

$$\frac{21.50 - 20.51}{21.50 - 1.40} \times 100 = 4.9254\%$$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))** cg 8-22-14

HEAL ID #

1408a76-001a

$$\frac{10g}{15.39g} = 0.6498$$

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

JR 8/26/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408A76**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-001 **Collection Date:** 8/20/2014 3:20:00 PM
Client Sample ID: FFOR-CF-0048 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	1200	110		mg/Kg-dry	10	14887	8/25/2014 11:58:57 AM
Motor Oil Range Organics (MRO)	ND	530		mg/Kg-dry	10	14887	8/25/2014 11:58:57 AM
Surr: DNOP	0	57.9-140	S	%REC	10	14887	8/25/2014 11:58:57 AM

Lab ID: 1408A76-002 **Collection Date:** 8/20/2014 3:31:00 PM
Client Sample ID: FFOR-CF-0049 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	9700	110		mg/Kg-dry	10	14887	8/25/2014 2:37:46 PM
Motor Oil Range Organics (MRO)	ND	530		mg/Kg-dry	10	14887	8/25/2014 2:37:46 PM
Surr: DNOP	0	57.9-140	S	%REC	10	14887	8/25/2014 2:37:46 PM

Lab ID: 1408A76-003 **Collection Date:** 8/20/2014 3:40:00 PM
Client Sample ID: FFOR-CF-0050 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	4500	100		mg/Kg-dry	10	14887	8/25/2014 4:35:28 PM
Motor Oil Range Organics (MRO)	ND	510		mg/Kg-dry	10	14887	8/25/2014 4:35:28 PM
Surr: DNOP	0	57.9-140	S	%REC	10	14887	8/25/2014 4:35:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Reviewed By: BN 8/21/14

Prep Start Date: 8/2[illegible] Batch ID: 14887 Prep Code: 8015_S_PREP Technician: Brenda Nieto Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

BN 8.21.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14887		Soil	BN 8.21.14		10	0	0	10	1.000	8/21/2014	BN 8.21.14
LCS-14887		Soil			10	0	0	10	1.000	8/21/2014	
1408A29-001A	SB-8 @ 17-18' BGS	Soil			10 10.08	0	0	10	1.000	8/21/2014	
1408A29-001AMS		Soil			10 10.05	0	0	10	1.000	8/21/2014	
1408A29-001AMSD		Soil			10 9.91	0	0	10	1.000	8/21/2014	
1408A29-002A	SB-10 @ 17-18' BGS	Soil			10 10.19	0	0	10	1.000	8/21/2014	
1408A29-003A	SB-5 @ 17-18' BGS	Soil			10 9.96	0	0	10	1.000	8/21/2014	
1408A29-004A	SB-13 @ 14-15' BGS	Soil			10 10.02	0	0	10	1.000	8/21/2014	
1408A29-005A	SB-14 @ 17-18' BGS	Soil			10 9.91	0	0	10	1.000	8/21/2014	
1408A29-006A	SB-12 @ 15-16' BGS	Soil			10 10.19	0	0	10	1.000	8/21/2014	
1408A29-007A	SB-3 @ 3-4' BGS	Soil			10 10.01	0	0	10	1.000	8/21/2014	
1408A29-008A	SB-2 @ 15-16' BGS	Soil			10 10.04	0	0	10	1.000	8/21/2014	
1408A29-009A	SB-1 @ 4-5' BGS	Soil			10 10.13	0	0	10	1.000	8/21/2014	
1408A29-010A	SB-9 @ 18-19' BGS	Soil			10 10.09	0	0	10	1.000	8/21/2014	
1408A76-001A	FFOR-CF-0048	MeOH (Soil)			10 9.90	0	0	10	1.000	8/21/2014	
1408A76-002A	FFOR-CF-0049	MeOH (Soil)			10 10.07	0	0	10	1.000	8/21/2014	
1408A76-003A	FFOR-CF-0050	MeOH (Soil)			10 10.12	0	0	10	1.000	8/21/2014	
1408A89-001A	DC-17	MeOH (Soil)			10 10.19	0	0	10	1.000	8/21/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

BN 8.21.14

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14010	5,000 PPM Diesel, 500 ppm DNOP	LCS	26361	Container-01 of 01	100	µL

Calibration Summary

Instrument: DANTE

Date: 8.15.14

Method: 081514.met

Calibration Name: 8015 D

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☑	☐	☐	☑	
MRO	☑	☐	☐	☑	
DNOP (Surr)	N/A	N/A	☐	☑	

Additional Notes:

Analyst: Brad C.

QA: Janice Easley

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BW 8.25.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
4	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-14903	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14903 <D>.dat	1
6	Unknown	0	1	LCS-14903	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14903 <D>.dat	1
7	Unknown	0	1	1408B17-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001A <D>.dat	1
8	Unknown	0	1	1408B17-001AMS	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001AMS <D>.dat	1
9	Unknown	0	1	1408B17-001AMSD	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001AMSD <D>.dat	1
10	Unknown	0	1	1408B17-002A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-002A <D>.dat	1
11	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
12	Unknown	0	1	1408B17-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-003A <D>.dat	1
13	Unknown	0	1	1408B17-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-003A <D>.dat	1
14	Unknown	0	1	1408B56-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B56-001A <D>.dat	1
15	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
16	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
17	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
18	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1

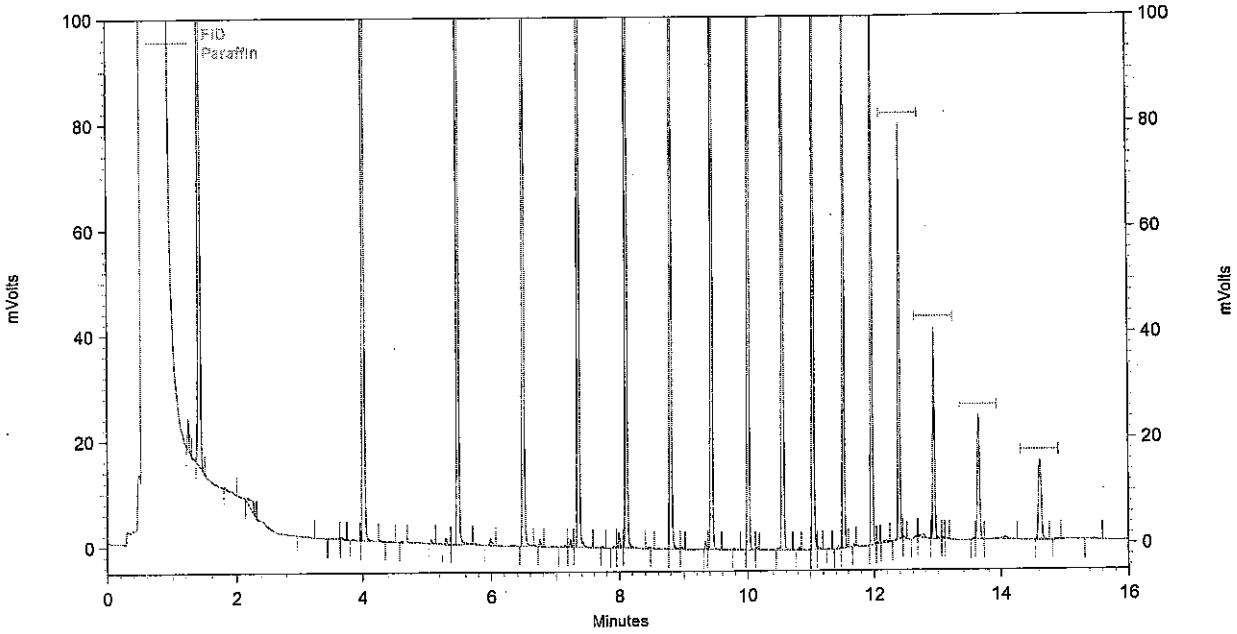
8/26/14

Sequence Print

19	Unknown	0	1	1408A76-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408A76-003A <D>.dat	1
20	Unknown	0	1	1408B56-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B56-001A <D>.dat	1
21	Unknown	0	1	1408B59-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-001A <D>.dat	1
22	Unknown	0	1	1408B59-002A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-002A <D>.dat	1
23	Unknown	0	1	1408B59-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-003A <D>.dat	1
24	Unknown	0	1	1408B59-004A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-004A <D>.dat	1
25	Unknown	0	1	1408B59-005A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-005A <D>.dat	1
26	Unknown	0	1	1408B59-006A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-006A <D>.dat	1
27	Unknown	0	1	1408B66-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A <D>.dat	1
28	Unknown	0	1	1408B66-001AMS	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A MS <D>.dat	1
29	Unknown	0	1	1408B66-001AMSD	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A MSD <D>.dat	1
30	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-25-14 9-24-05 AM.dat
Aquired: 8/25/2014 9:28:58 AM



FID Results

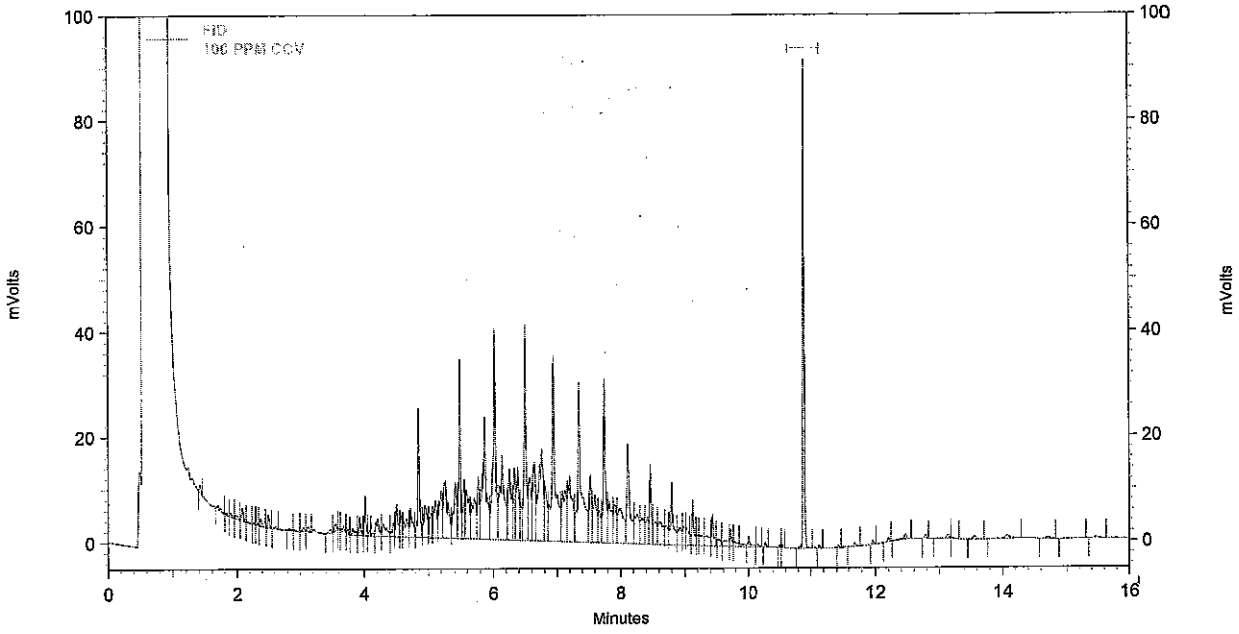
Name	Retention Time	Area	ug/ml
C8	1.403	427841	0.000
C10	4.011	525075	0.000
C12	5.472	509720	0.000
C14	6.491	487702	0.000
C16	7.344	469608	0.000
C18	8.101	446511	0.000
C20	8.789	433943	0.000
C22	9.424	415074	0.000
C24	10.005	399077	0.000
C26	10.544	402386	0.000
C28	11.045	379912	0.000
C30	11.515	314769	0.000
C32	11.957	211167	0.000
C34	12.389	120331	0.000
C36	12.923	74824	0.000
C38	13.637	54257	0.000
C40	14.613	46467	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-25-14 9-45-06 AM.dat
Aquired: 8/25/2014 9:50:20 AM



FID Results

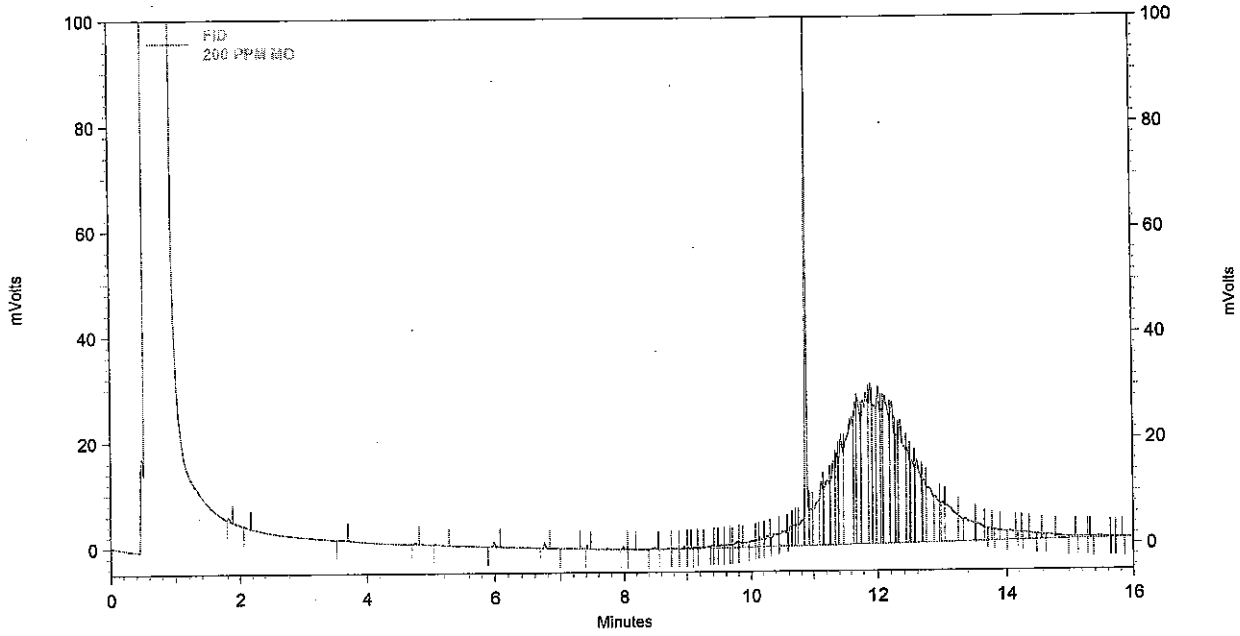
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.880	131984	8.406
DRO		2133951	108.873
MRO		20672	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-25-14 10-06-29 AM.dat
Aquired: 8/25/2014 10:11:31 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	174866	10.948
DRO		96210	7.340
MRO		1926770	175.025

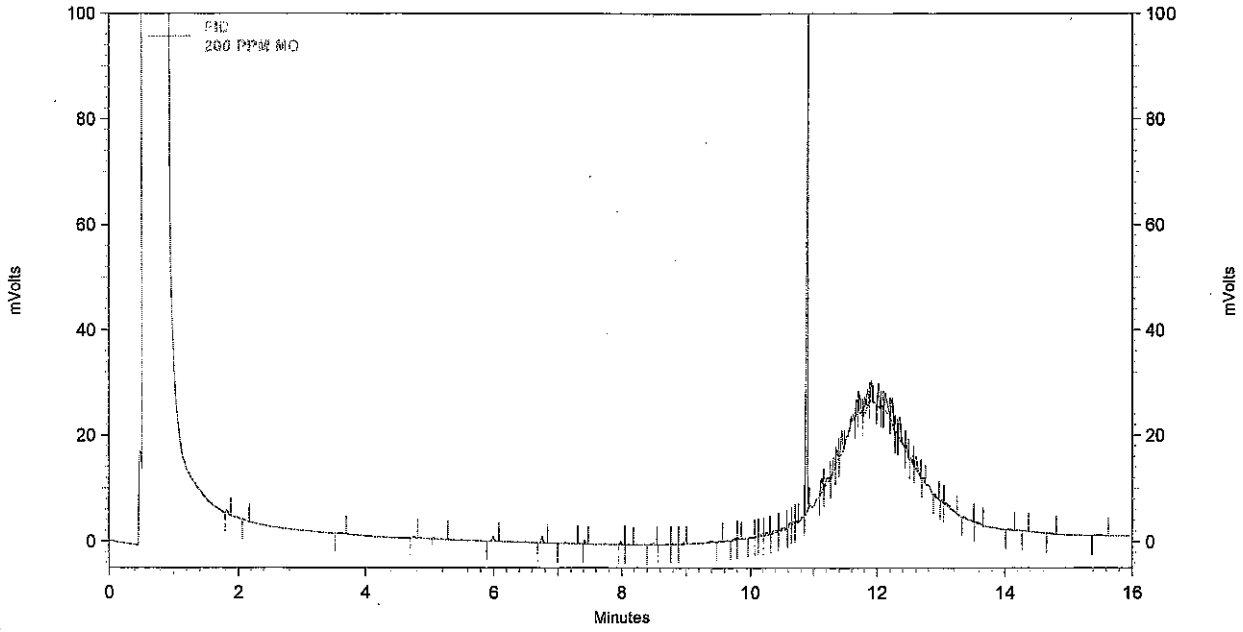
Analyst BW

Reviewed By JE

10.948
- 9.309
1.639
+175.025
176.664 x100
200
= 88.332% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-25-14 10-06-29 AM.dat
Aquired: 8/25/2014 10:11:31 AM



FID Results

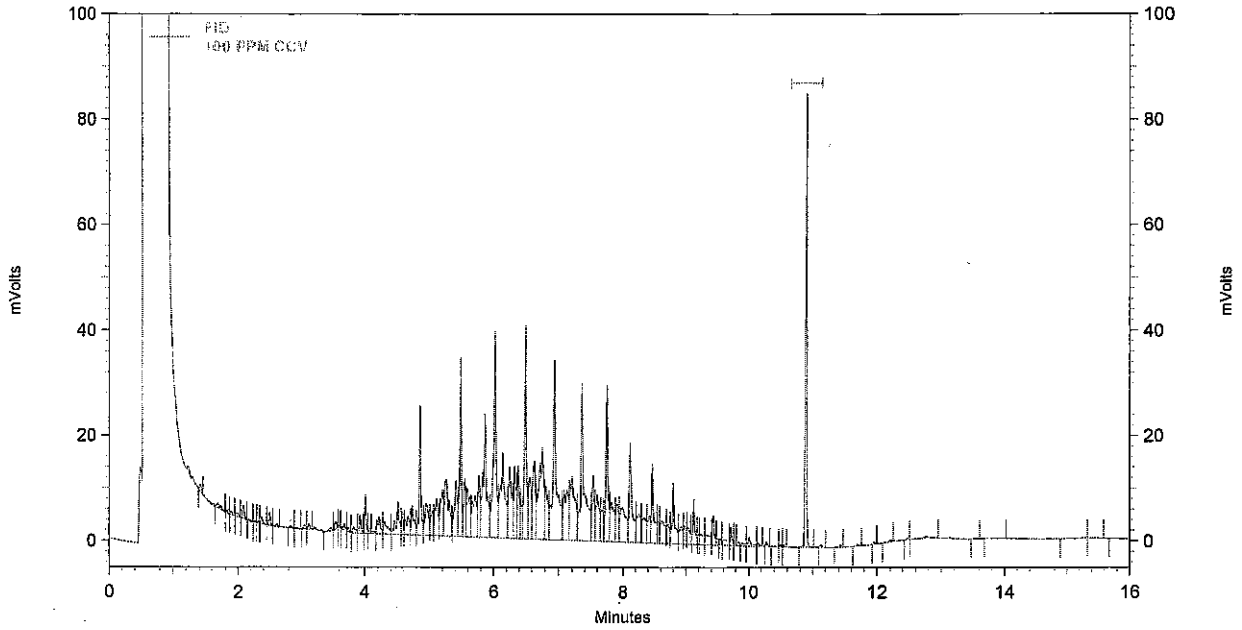
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.875	147272	9.309
DRO		21327	3.609
MRO		112759	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-25-14 2-44-31 PM.dat
Aquired: 8/25/2014 2:49:50 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	120877	7.754
DRO		2123980	108.377
MRO		9899	0.000

Analyst BN

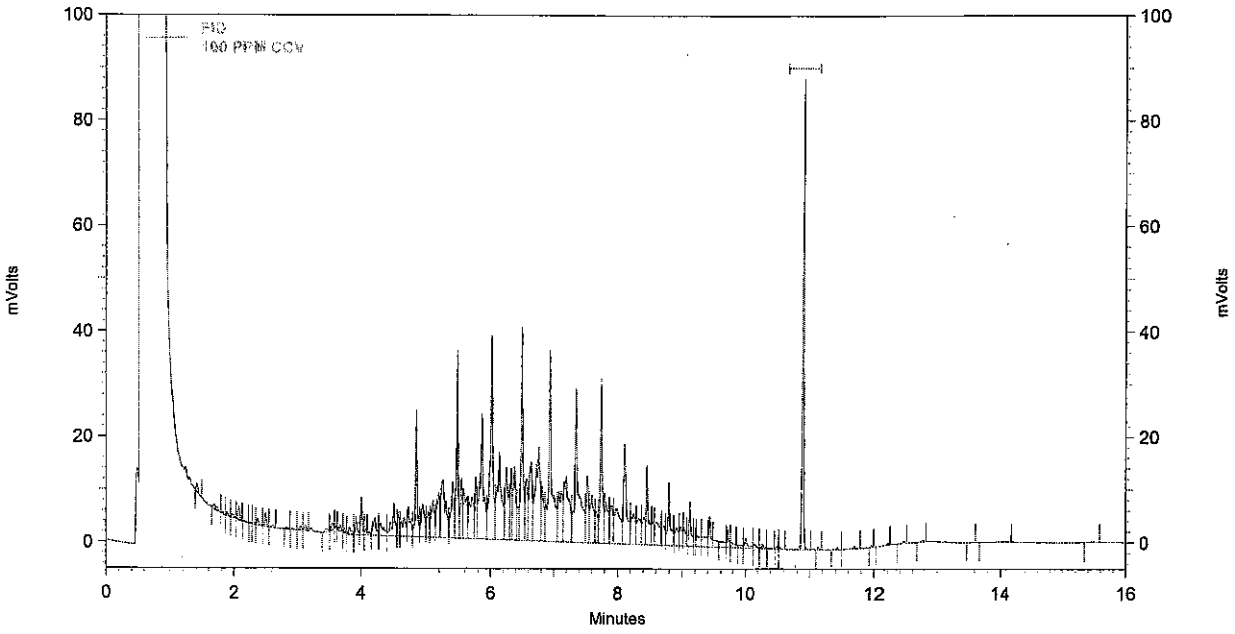
Reviewed By JZ

reporting all samples with adequate surr. recoveries.

JZ 8/26/14

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\082514\100 PPM 08-25-14 4-08-40 PM.dat
Aquired: 8/25/2014 4:13:56 PM



FID Results

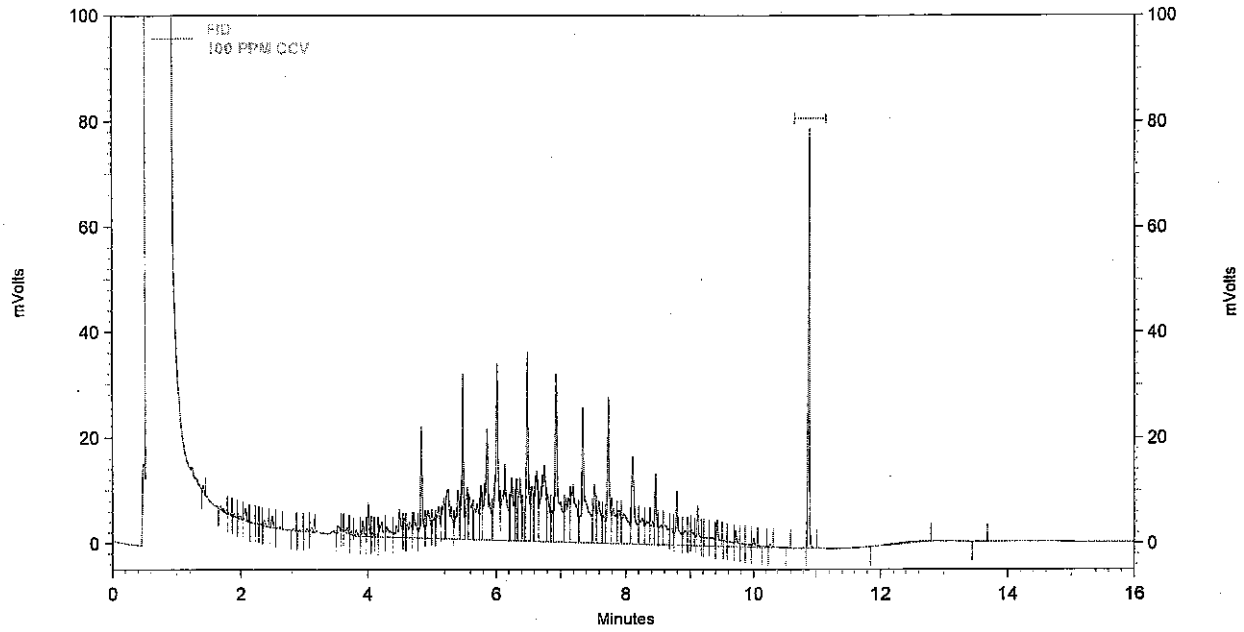
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.875	124380	7.959
DRO		2145889	109.468
MRO		8237	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-25-14 8-25-29 PM.dat
Aquired: 8/25/2014 8:30:39 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	112382	7.256
DRO		1857733	95.111
MRO		7674	0.000

Analyst BW

Reviewed By JG

Adequate surrogate recovery of samples.

8015D DRO
Calibration Summary

Instrument: FID#2 Date: 08/13/14

Method: 8015D

Calibration Name: DRO FID#2 081314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: Janice Oakley

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

Sequence Print

BN 8.24.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
6	Unknown	0	1	1408994-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-001A <D>.dat	1
7	Unknown	0	1	1408994-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-002A <D>.dat	1
8	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
9	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
10	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
11	Unknown	0	1	1408986-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408986-001A <D>.dat	1
12	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
13	Unknown	0	1	1408987-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408987-001A <D>.dat	1
14	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
15	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
16	Unknown	0	1	MB-14904	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14904 <D>.dat	1
17	Unknown	0	1	LCS-14904	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14904 <D>.dat	1
18	Unknown	0	1	MB-14896	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14896 <D>.dat	1

8/25/14

BN 8.24.14

Sequence Print

19	Unknown	0	1	LCS-14896	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14896 <D>.dat	1
20	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
21	Unknown	0	1	MB-14887	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14887 <D>.dat	1
22	Unknown	0	1	LCS-14887	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14887 <D>.dat	1
23	Unknown	0	1	1408A29-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 A <D>.dat	1
24	Unknown	0	1	1408A29-001AMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 AMS <D>.dat	1
25	Unknown	0	1	1408A29-001AMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 AMSD <D>.dat	1
26	Unknown	0	1	1408A29-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-002 A <D>.dat	1
27	Unknown	0	1	1408A29-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-003 A <D>.dat	1
28	Unknown	0	1	1408A29-004A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-004 A <D>.dat	1
29	Unknown	0	1	1408A29-005A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-005 A <D>.dat	1
30	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
31	Unknown	0	1	1408A29-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-006 A <D>.dat	1
32	Unknown	0	1	1408A29-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-007 A <D>.dat	1
33	Unknown	0	1	1408A29-008A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-008 A <D>.dat	1
34	Unknown	0	1	1408A29-009A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-009 A <D>.dat	1
35	Unknown	0	1	1408A29-010A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-010 A <D>.dat	1
36	Unknown	0	1	1408A76-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-001 A <D>.dat	1
37	Unknown	0	1	1408A76-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-002 A <D>.dat	1

J 8/25/14

BW 8-25-14

38	Unknown	0	1	1408A76-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-003A <D>.dat	1
39	Unknown	0	1	1408A89-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A89-001A <D>.dat	1
40	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
41	Unknown	0	1	1408B43-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001C <D>.dat	1
42	Unknown	0	1	1408B43-001CMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001CMS <D>.dat	1
43	Unknown	0	1	1408B43-001CMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001CMSD <D>.dat	1
44	Unknown	0	1	1408B43-002C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-002C <D>.dat	1
45	Unknown	0	1	1408B43-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-003C <D>.dat	1
46	Unknown	0	1	1408B43-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-004C <D>.dat	1
47	Unknown	0	1	1408B43-005C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-005C <D>.dat	1
48	Unknown	0	1	1408B43-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-006C <D>.dat	1
49	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
50	Unknown	0	1	1408B57-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-001C <D>.dat	1
51	Unknown	0	1	1408B57-002C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-002C <D>.dat	1
52	Unknown	0	1	1408B57-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-003C <D>.dat	1
53	Unknown	0	1	1408B57-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-004C <D>.dat	1
54	Unknown	0	1	1408B57-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-006C <D>.dat	1
55	Unknown	0	1	1408B57-007C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-007C <D>.dat	1
56	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Instrument Failure NOT RUN BW 8-29-14

8/15/14

Sequence Print

~~8-21-14~~ RJN 8.24.14

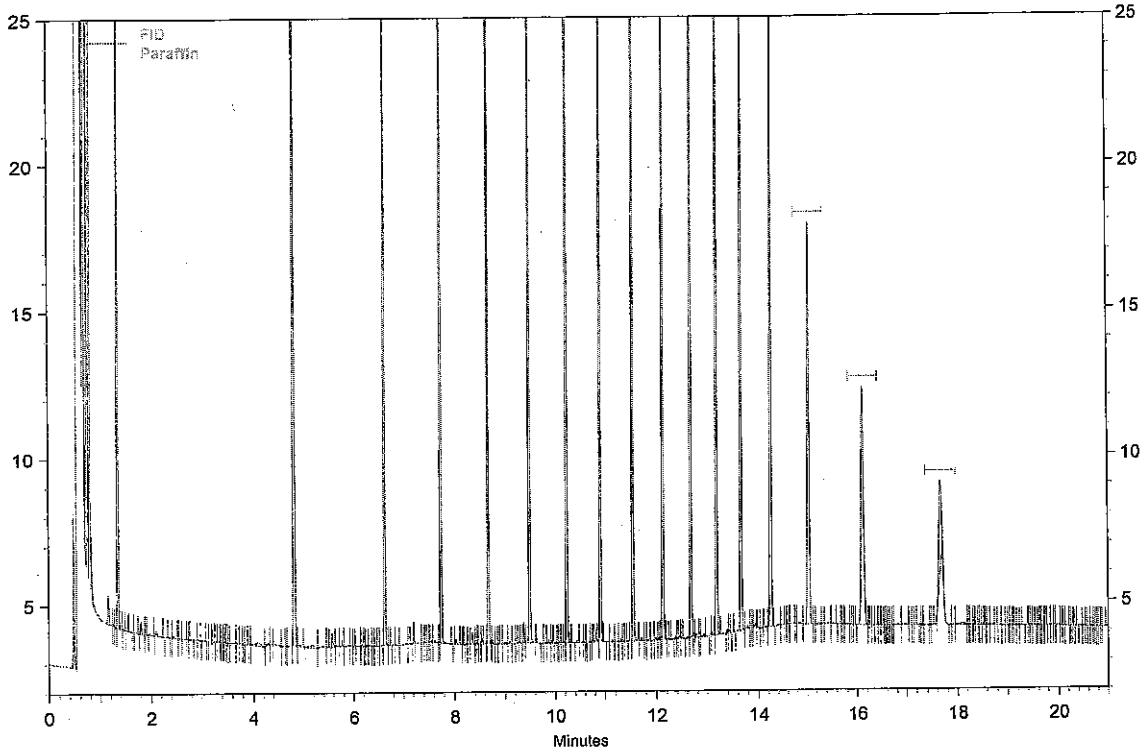
57	Unknown	0	1	1408B59-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-001B <D>.dat	1
58	Unknown	0	1	1408B59-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-002A <D>.dat	1
59	Unknown	0	1	1408B59-003B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-003B <D>.dat	1
60	Unknown	0	1	1408B59-004B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-004B <D>.dat	1
61	Unknown	0	1	1408B59-005B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-005B <D>.dat	1
62	Unknown	0	1	1408B59-006B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-006B <D>.dat	1
63	Unknown	0	1	1408B66-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B <D>.dat	1
64	Unknown	0	1	1408B66-001BMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B MS <D>.dat	1
65	Unknown	0	1	1408B66-001BMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B MSD <D>.dat	1
66	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Not RUN (BN 8.25.14) / Instrument Failure

8/25/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\Paraffin 08-22-14 7-10-18 AM.dat
Aquired: 8/22/2014 7:18:26 AM



FID Results

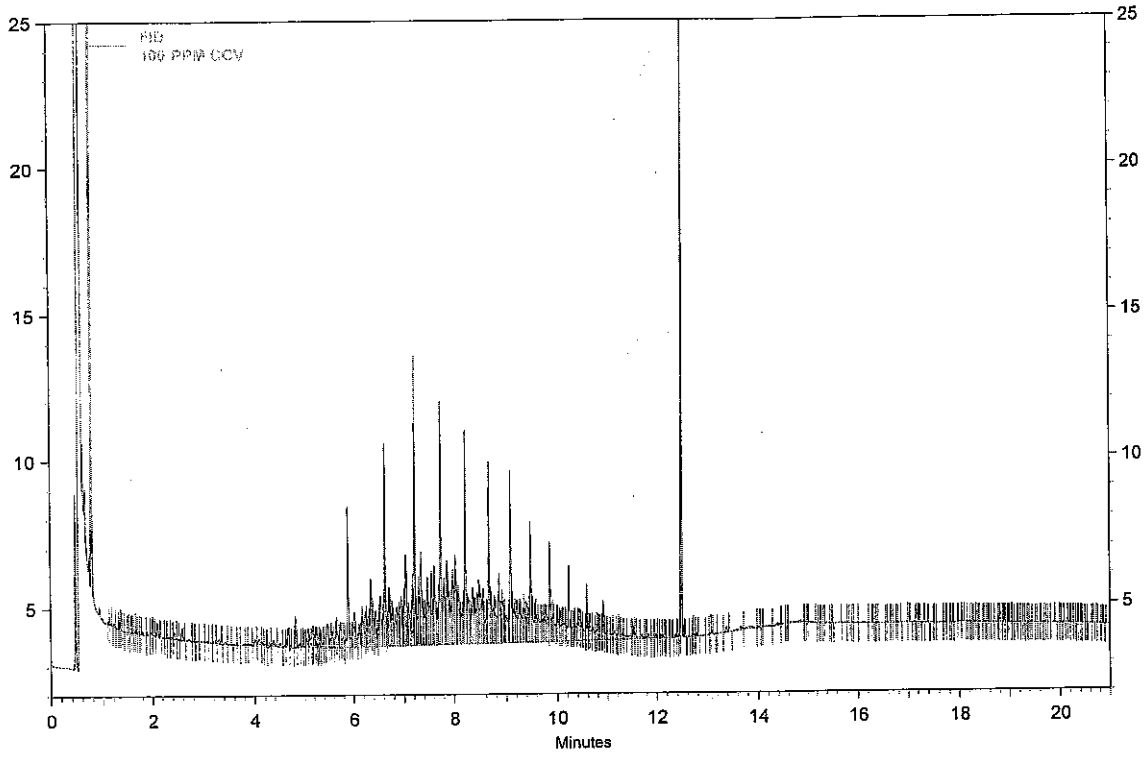
Name	Retention Time	Area	ug/ml
C08	1.34	56702	0.000
C10	4.81	76536	0.000
C12	6.62	77815	0.000
C14	7.74	78622	0.000
C16	8.66	78984	0.000
C18	9.49	79057	0.000
C20	10.23	80252	0.000
C22	10.91	79156	0.000
C24	11.54	78765	0.000
C26	12.12	81322	0.000
C28	12.67	82118	0.000
C30	13.18	77929	0.000
C32	13.65	63002	0.000
C34	14.24	44434	0.000
C36	15.02	33896	0.000
C38	16.11	28700	0.000
C40	17.66	10034	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\100 PPM CCV 08-22-14 7-39-44 AM.dat
Aquired: 8/22/2014 7:48:02 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	26786	10.375
DRO		330215	121.472
MRO		4525	0.000

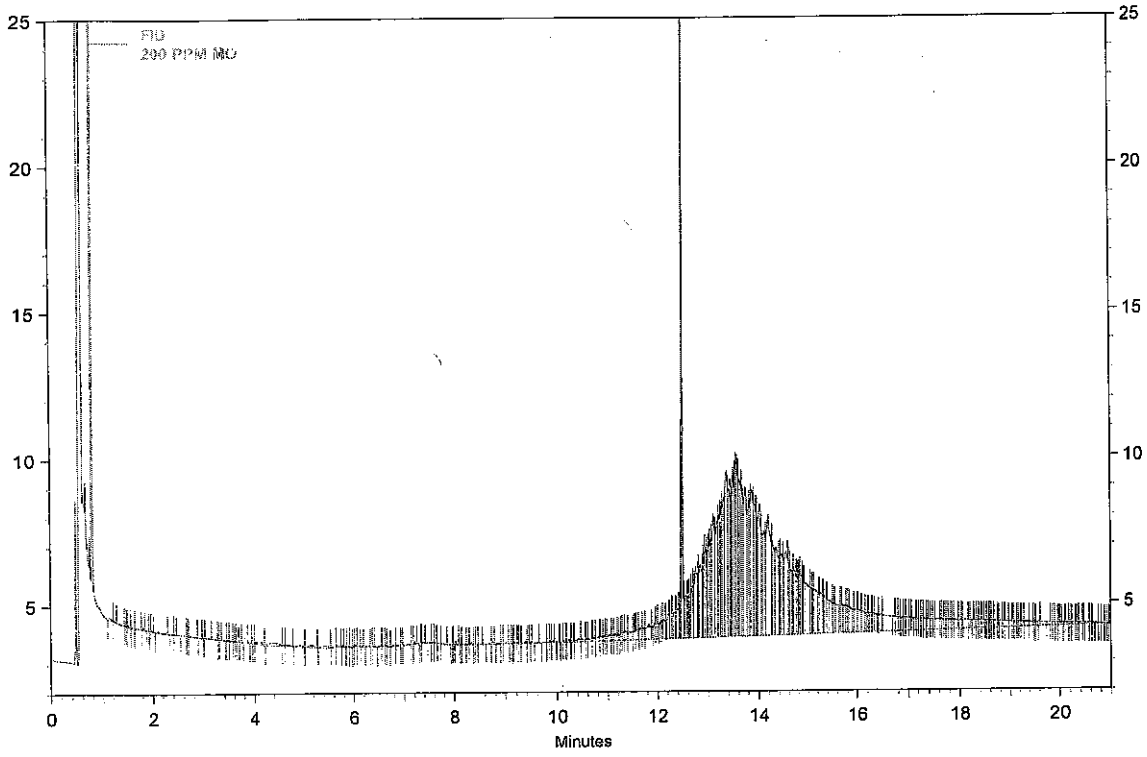
Analyst BN

Reviewed By

RR new CCV

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\200 PPM MO 08-22-14 8-09-16 AM.dat
Aquired: 8/22/2014 8:17:39 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	36350	13.977
DRO		32005	12.450
MRO		500876	207.552

Analyst BW

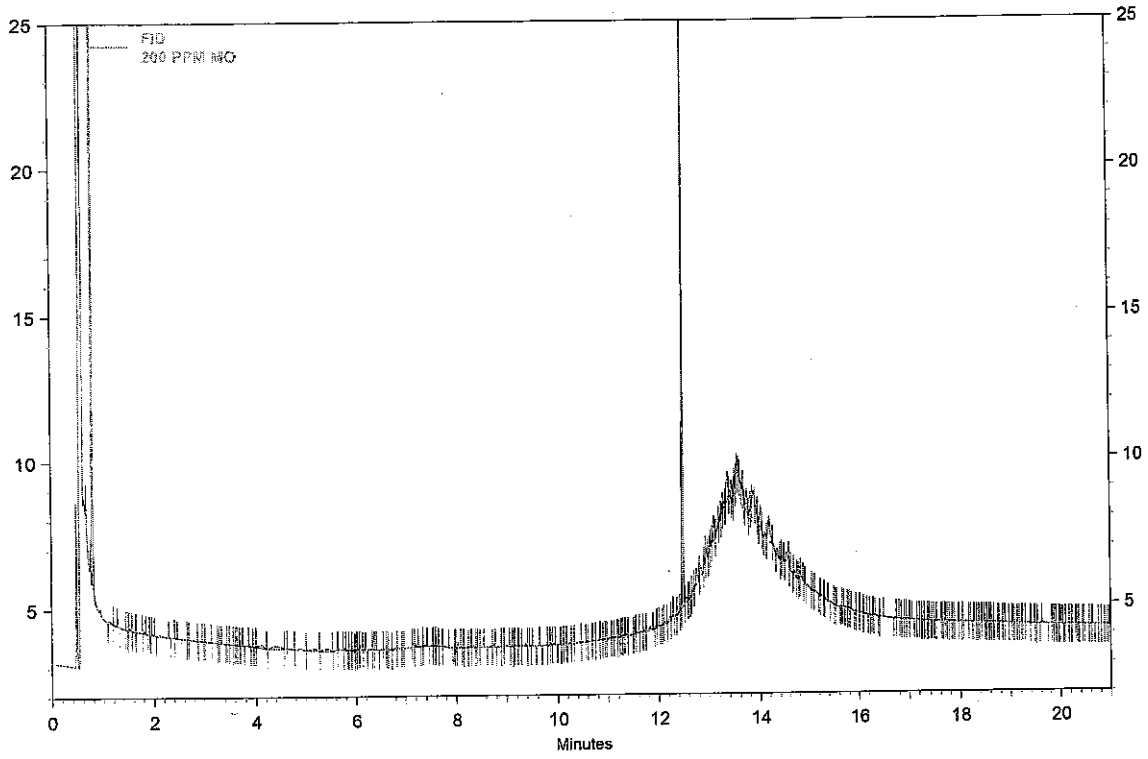
Reviewed By

13.977
−12.147
1.83

+207.552
209.382 x100
200
104.691 %

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\200 PPM MO 08-22-14 8-09-16 AM.dat
Aquired: 8/22/2014 8:17:39 AM



FID Results

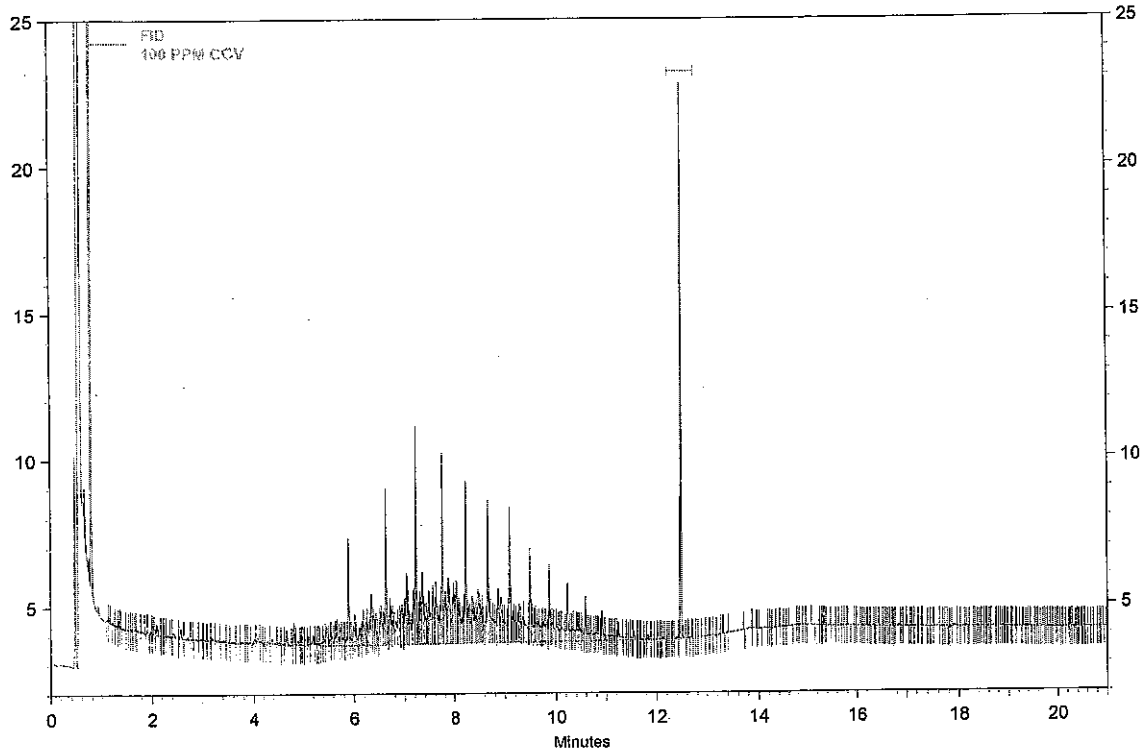
Name	Retention Time	Area	ug/ml
DNOP	12.48	31507	12.147
DRO		7459	3.524
MRO		23643	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-22-14 8-46-19 AM.dat
Aquired: 8/22/2014 8:47:33 AM



FID Results

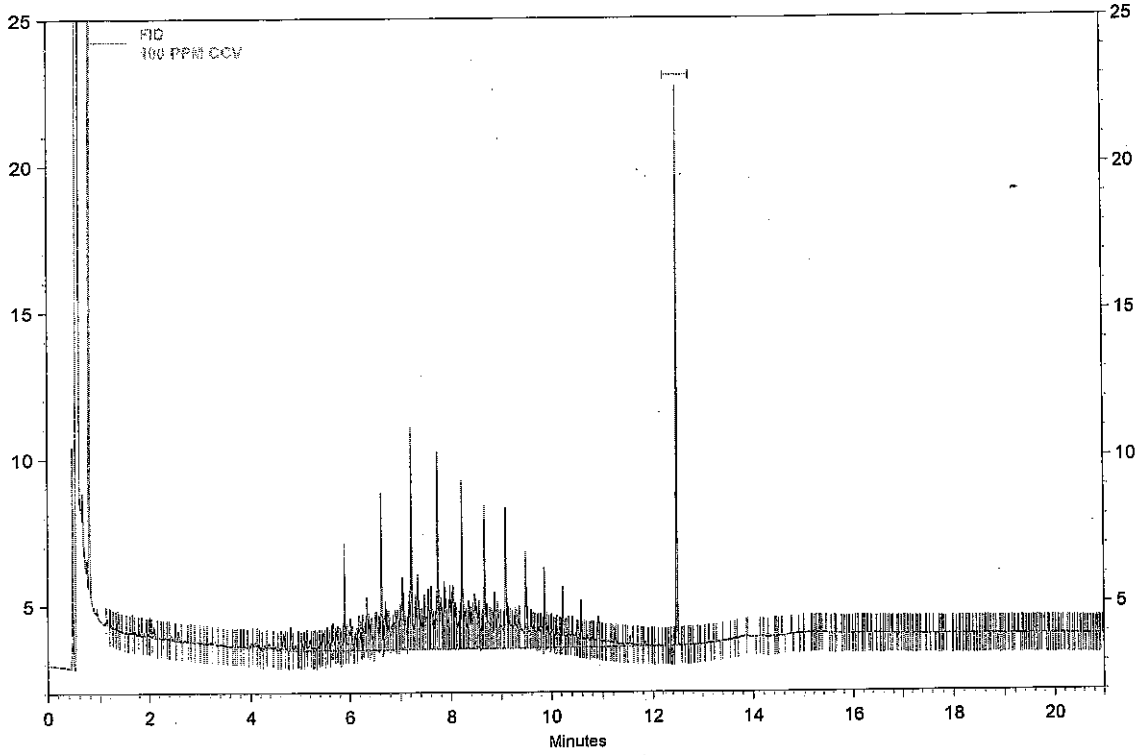
Name	Retention Time	Area	ug/ml
DNOP	12.48	21054	8.237
DRO		250861	92.359
MRO		2472	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\100 PPM CCV 08-22-14 11-07-46 AM.dat
Aquired: 8/22/2014 11:16:11 AM



FID Results

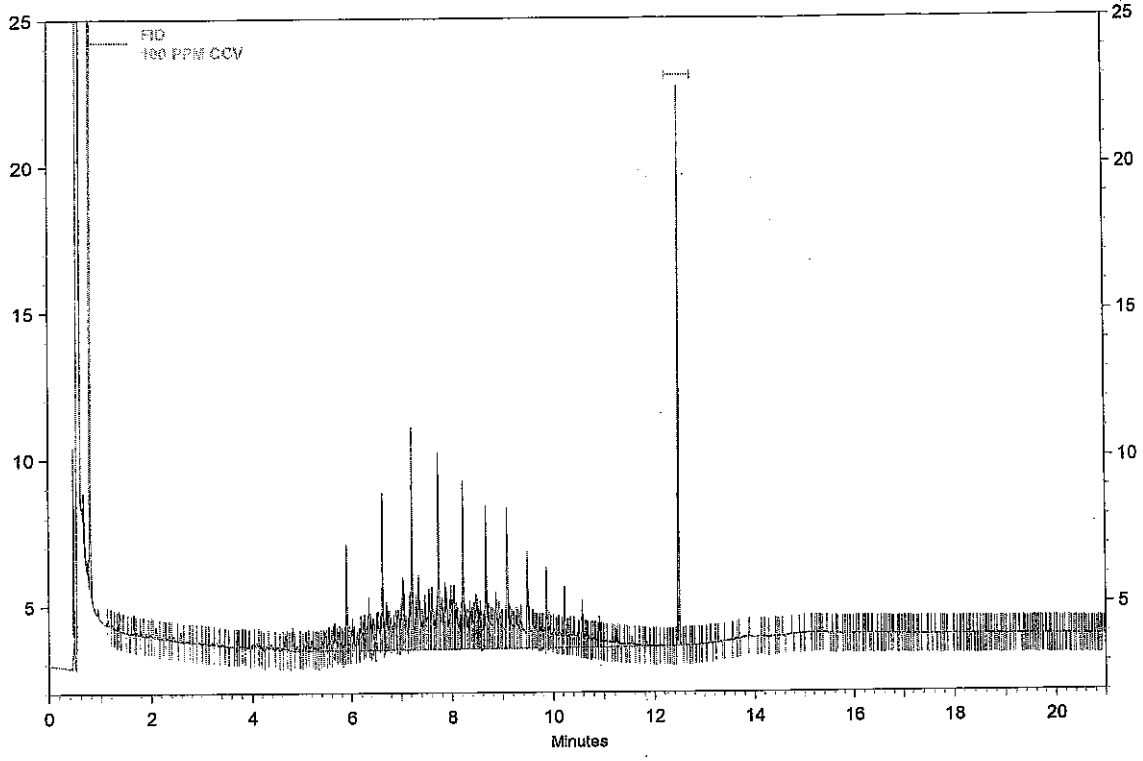
Name	Retention Time	Area	ug/ml
DNOP	12.48	21419	8.373
DRO		266461	98.076
MRO		2129	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\100 PPM CCV 08-22-14 11-07-46 AM.dat
Aquired: 8/22/2014 11:16:11 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21419	8.373
DRO		266461	98.076
MRO		2129	0.000

Analyst _____

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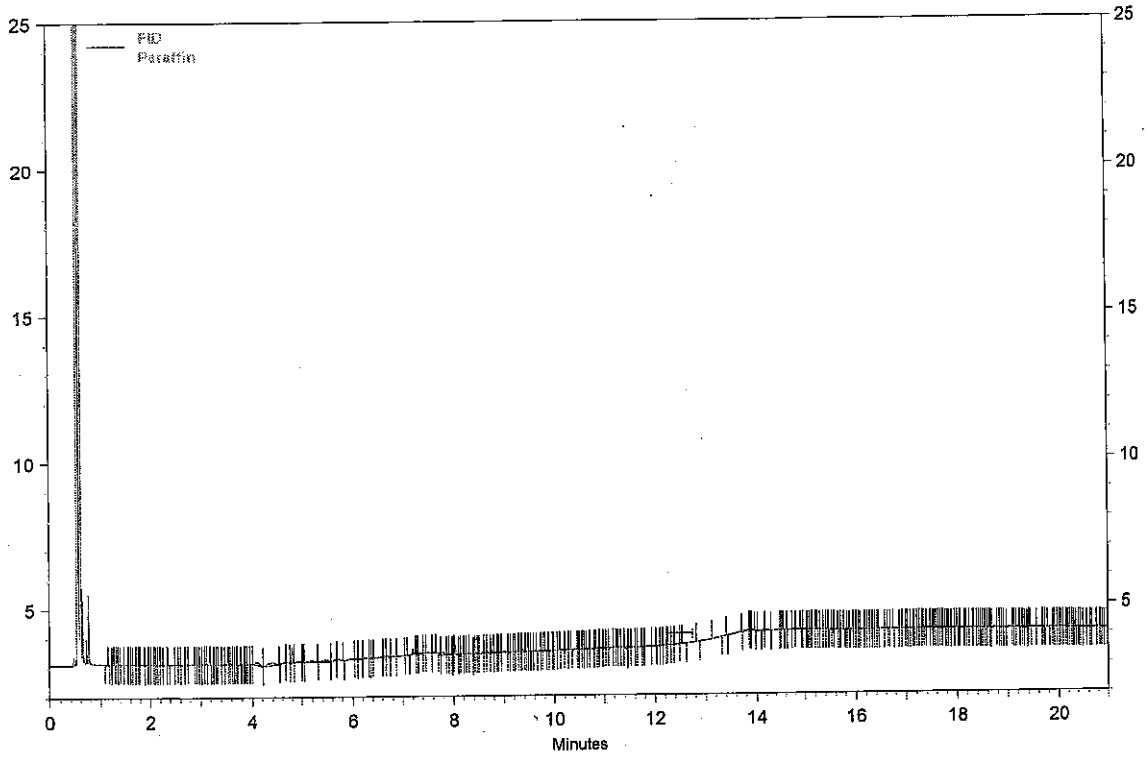
BN 8.25-14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408A29-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-007A <D>.dat	1
6	Unknown	0	1	1408A76-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-001A <D>.dat	1
7	Unknown	0	1	1408A76-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-002A <D>.dat	1
8	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
9	Unknown	0	1	1408A76-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-002A <D>.dat	1
10	Unknown	0	1	1408A76-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-003A <D>.dat	1
11	Unknown	0	1	1408B57-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-001C <D>.dat	1
12	Unknown	0	1	1408B57-002C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-002C <D>.dat	1
13	Unknown	0	1	1408B57-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-003C <D>.dat	1
14	Unknown	0	1	1408B57-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-004C <D>.dat	1
15	Unknown	0	1	1408B57-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-006C <D>.dat	1
16	Unknown	0	1	1408B57-007C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-007C <D>.dat	1
17	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

✓ 8/26/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-25-14 9-40-59 AM.dat
Aquired: 8/25/2014 9:49:33 AM



FID Results

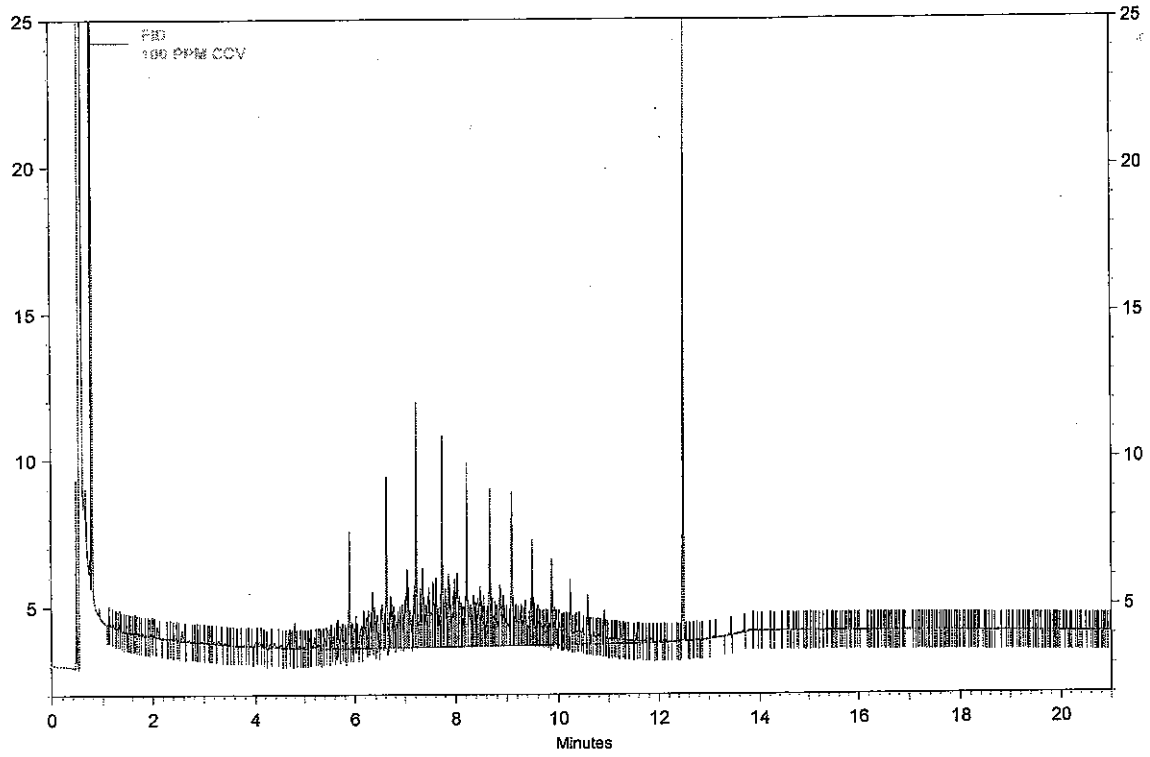
Name	Retention Time	Area	ug/ml
DNOP	12.51	11	0.528
DRO		6335	3.115
MRO		2035	0.000

Analyst BW

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-25-14 10-10-46 AM.dat
Aquired: 8/25/2014 10:19:21 AM



FID Results

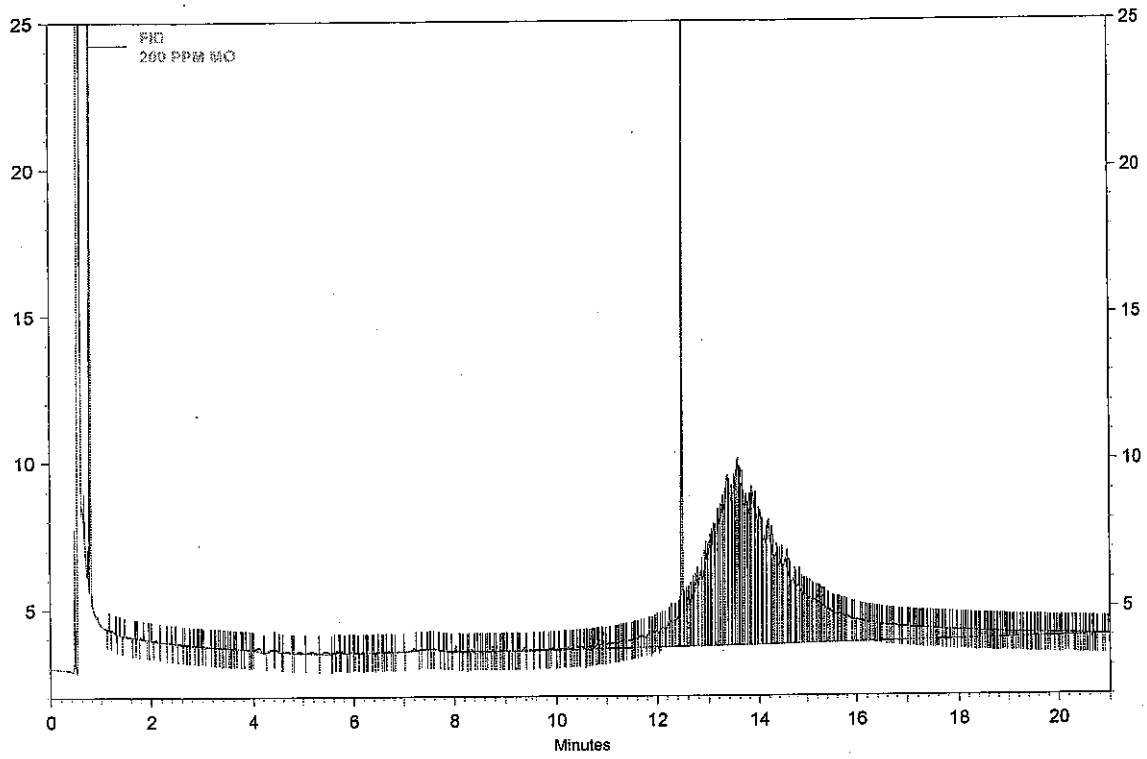
Name	Retention Time	Area	ug/ml
DNOP	12.48	24244	9.425
DRO		286249	105.333
MRO		2983	0.000

Analyst BW

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-25-14 10-40-33 AM.dat
Aquired: 8/25/2014 10:49:12 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	36511	14.038
DRO		29858	11.669
MRO		517059	215.295

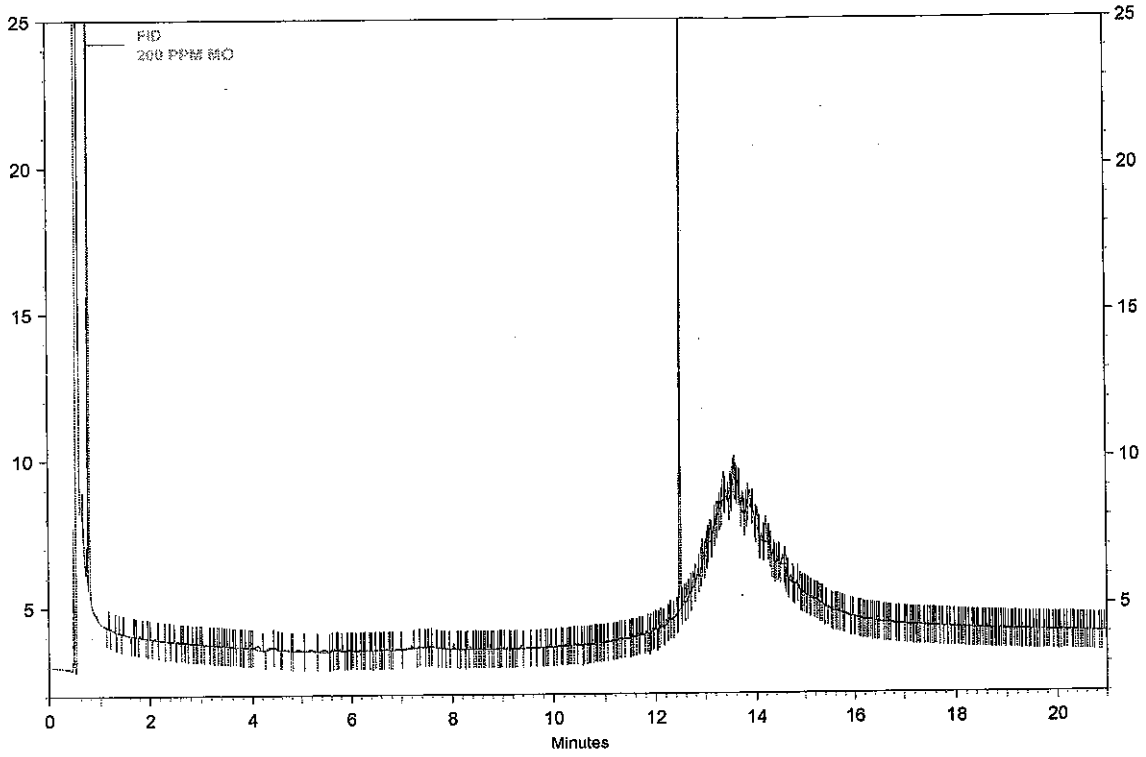
Analyst BW

Reviewed By JZ

14.038
-12.086
1.952
+215.295
217.247 x100
200
=108.62 % ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-25-14 10-40-33 AM.dat
Aquired: 8/25/2014 10:49:12 AM



FID Results

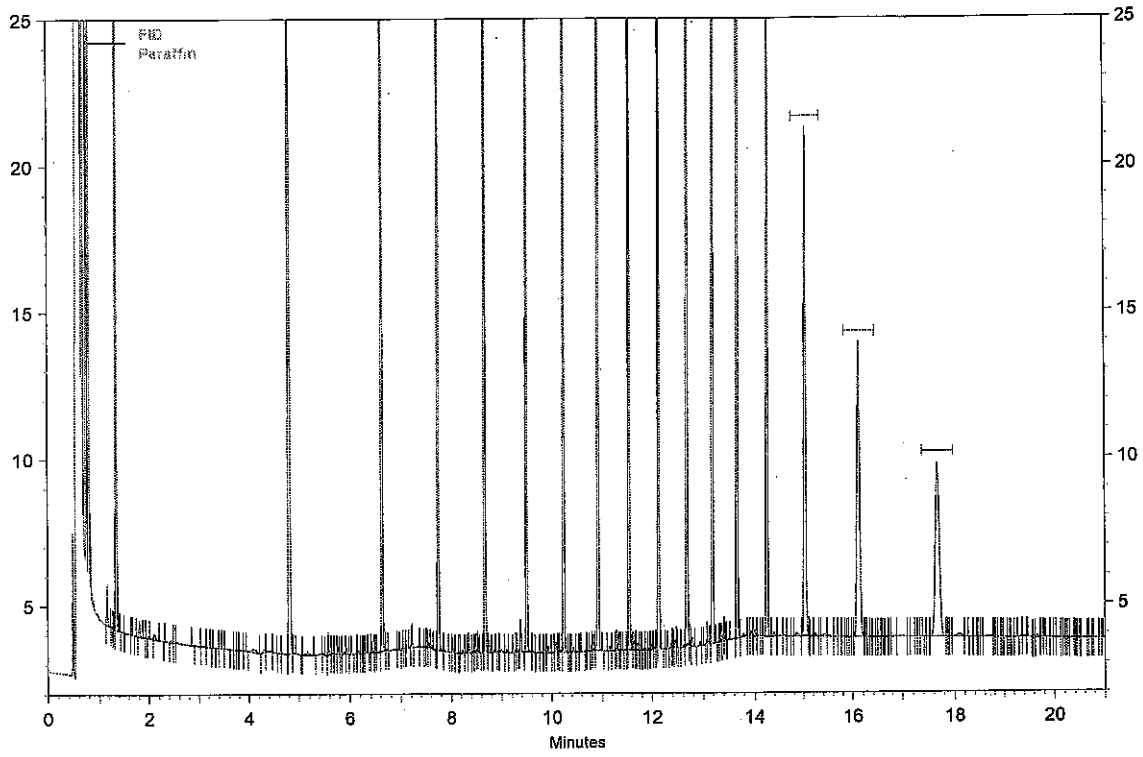
Name	Retention Time	Area	ug/ml
DNOP	12.48	31345	12.086
DRO		7422	3.510
MRO		22977	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082514\Paraffin 08-25-14 2-05-56 PM.dat
Aquired: 8/25/2014 2:07:37 PM



FID Results

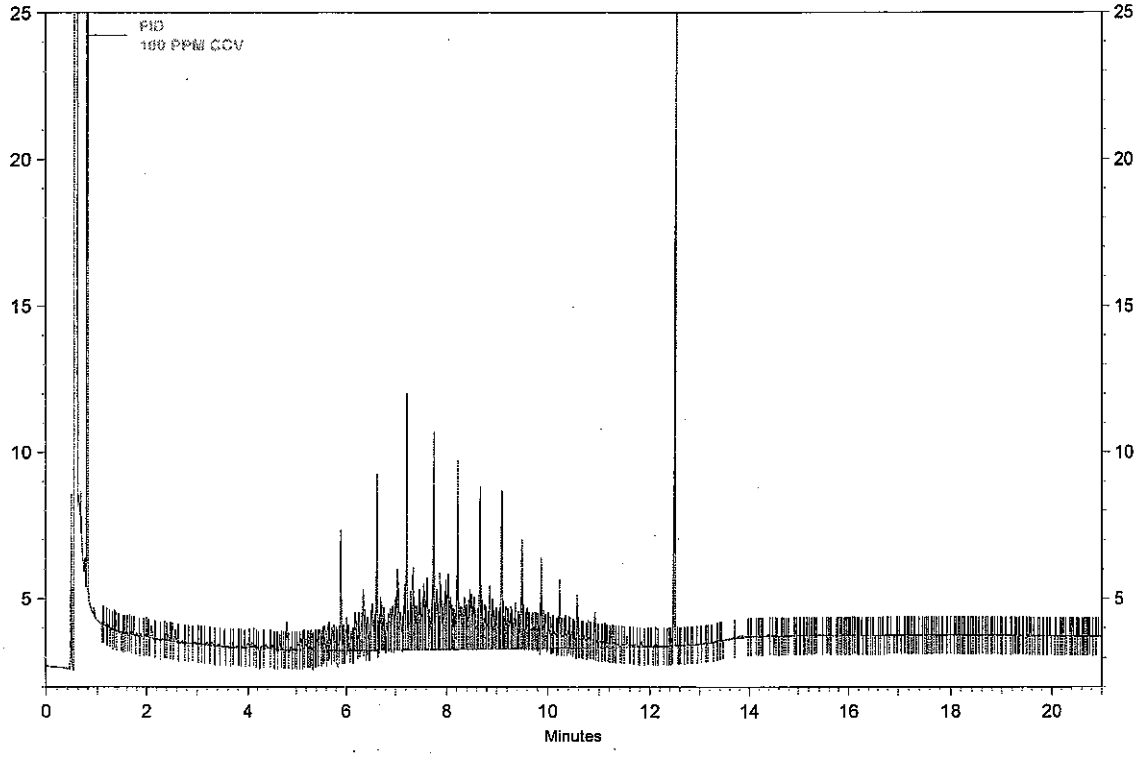
Name	Retention Time	Area	ug/ml
C08	1.34	71172	0.000
C10	4.82	99267	0.000
C12	6.63	103100	0.000
C14	7.74	105987	0.000
C16	8.67	107530	0.000
C18	9.49	107171	0.000
C20	10.23	108058	0.000
C22	10.91	105911	0.000
C24	11.54	103876	0.000
C26	12.13	106091	0.000
C28	12.67	106054	0.000
C30	13.18	99808	0.000
C32	13.66	80120	0.000
C34	14.24	55973	0.000
C36	15.02	42198	0.000
C38	16.12	35584	0.000
C40	17.67	31096	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082514\100 PPM CCV 08-25-14 6-30-09 PM.dat
Aquired: 8/25/2014 6:38:29 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	24577	9.549
DRO		291757	107.354
MRO		2811	0.000

Analyst BN

Reviewed By

Calibration Report

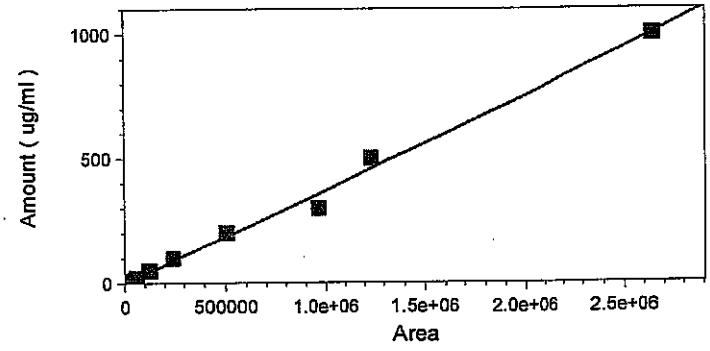
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000346663 RF StDev: 8.44404e-005 RF %RSD: 24.3580
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.91807e-012x^2 + 0.000363445x + 0.812271
Goodness of fit (r^2): 0.993892

8/14/14

Jam 8/14/14

Group: DRO ESTD – FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	27005	32411	56634	121544	244238
RF	0.000148120	0.00030853722	0.000353144754	0.000411373658	0.0004094366
	718385484	5016198	034679	921872	96992278
Last Area					
Residual	-6.63141	-2.59809	-1.41457	4.92579	10.0677
Rep StDev					
Rep %RSD					
Rep 1 Area	27005	32411	56634	121544	244238
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	505776	964738	1236689	2640934
RF	0.000395431	0.00031096525	0.000404305366	0.000378653915
	969883901	6888399	992025	622276
Last Area				
Residual	13.8523	-56.9492	40.6687	-1.92124
Rep StDev				
Rep %RSD				
Rep 1 Area	505776	964738	1236689	2640934
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

Calibration Report

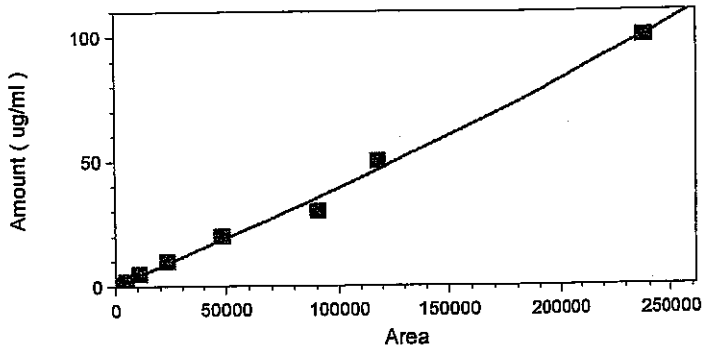
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000417492 RF StDev: 3.65729e-005 RF %RSD: 8.76013
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.44160e-010x^2 + 0.000361222x + 0.523704
Goodness of fit (r^2): 0.994928

JZ 8/14/14

Jdm 8/14/14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	919	2333	4919	10680	23365
RF	0.000435255	0.00042863266	0.000406586704	0.000468164794	0.0004279905
	71273123	180883	614759	007491	84207147
Last Area					
Residual	-0.455874	-0.367764	-0.306464	0.590594	0.903049
Rep StDev					
Rep %RSD					
Rep 1 Area	919	2333	4919	10680	23365
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	48359	90478	117643	237733
RF	0.000413573	0.00033157231	0.000425014663	0.000420639961
	481668355	5922103	005874	637636
Last Area				
Residual	1.43697	-5.20512	3.6019	-0.197294
Rep StDev				
Rep %RSD				
Rep 1 Area	48359	90478	117643	237733
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

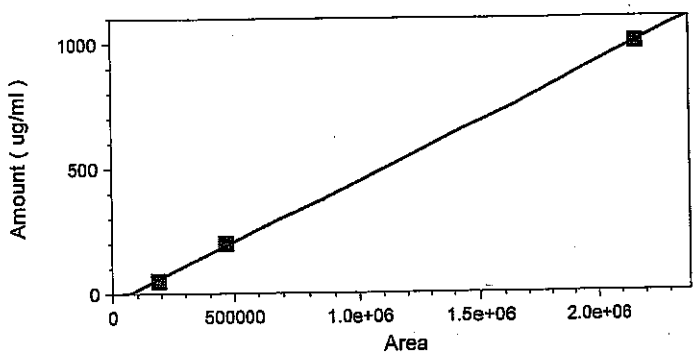
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000386051 RF StDev: 0.000105388 RF %RSD: 27.2989
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000478515x - 32.1253
Goodness of fit (r^2): 0.999719

JE 8/14/14 dkm 8/14/14

Group: MRO -- ESTD -- FID



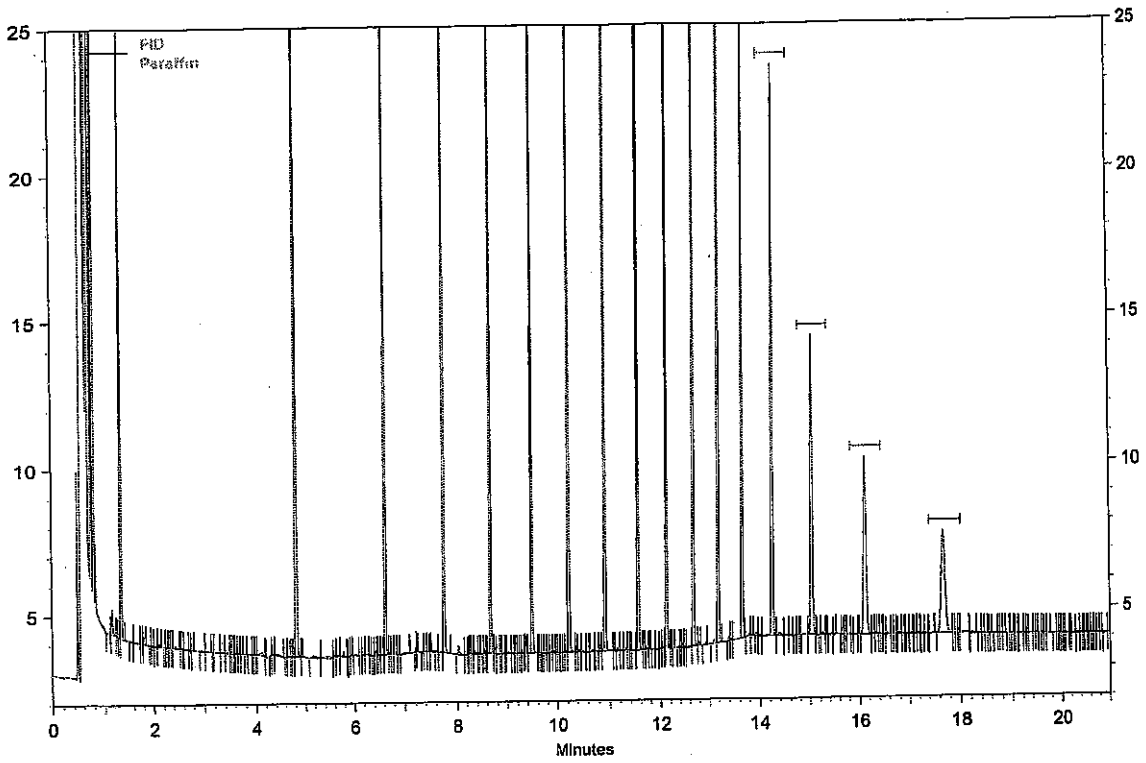
	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	188011	466019	2159622
RF	0.000265941	0.00042916705	0.000463043995
	886378988	1128817	662204
Last Area Residual	-7.8409	9.128	-1.2871
Rep StDev			
Rep %RSD			
Rep 1 Area	188011	466019	2159622
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-13-14 4-17-38 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/14/2014 8:08:47 AM	8/14/2014 8:09:01 AM	8/14/2014 8:09:19 AM

JE 8/13/14 I dm 8/14/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

Instument: **FID 2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-13-14 10-05-56 AM.dat
Aquired: 8/13/2014 10:13:00 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.34	44427	0.000
C10	4.81	53253	0.000
C12	6.63	54425	0.000
C14	7.74	56231	0.000
C16	8.67	57801	0.000
C18	9.49	58746	0.000
C20	10.23	60486	0.000
C22	10.91	60785	0.000
C24	11.54	60762	0.000
C26	12.12	63147	0.000
C28	12.67	64114	0.000
C30	13.18	60489	0.000
C32	13.66	48564	0.000
C34	14.24	34124	0.000
C36	15.03	25415	0.000
C38	16.12	21657	0.000
C40	17.67	18490	0.000

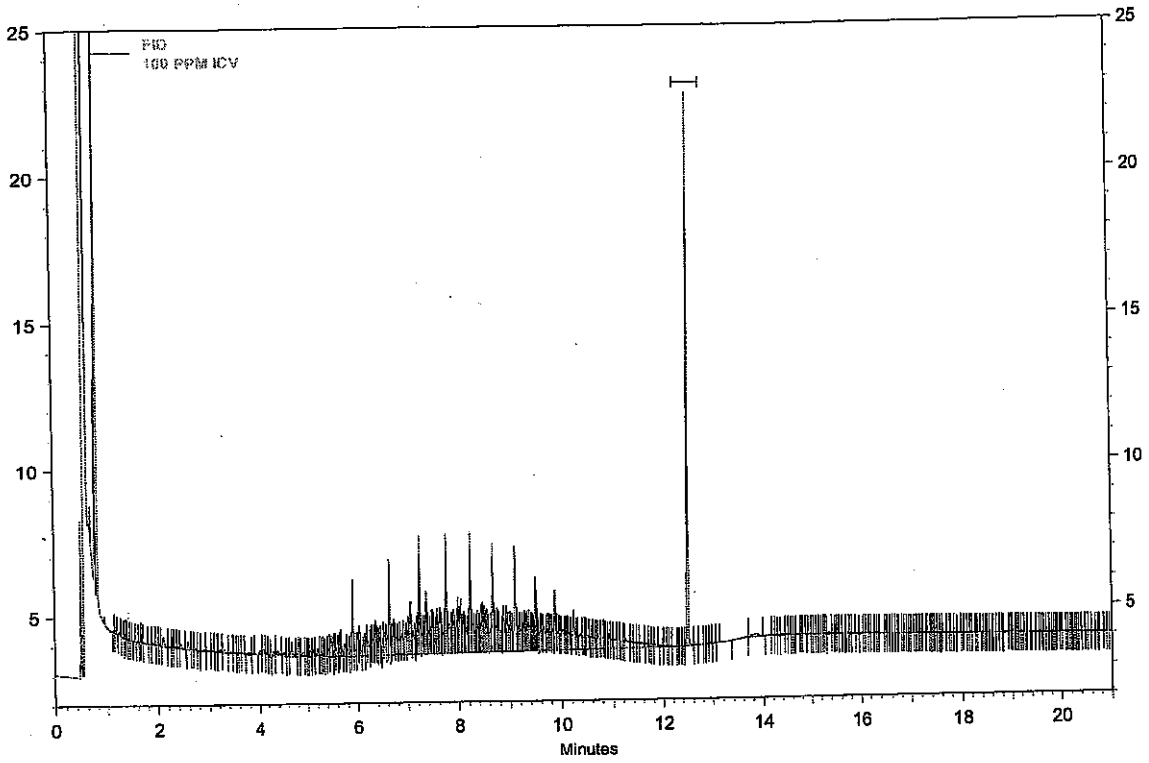
Analyst JL

Reviewed By dam

updated ret. times

Instument: **FID 2 (Offline)** Vial #: **12** User: **System**
Sample ID: **100 PPM ICV** Data Descritpion: **SV109-1542**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 08-13-14 3-17-55 PM.dat
Aquired: 8/13/2014 3:26:34 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21044	8.233
DRO		230919	85.054
MRO		3140	0.000

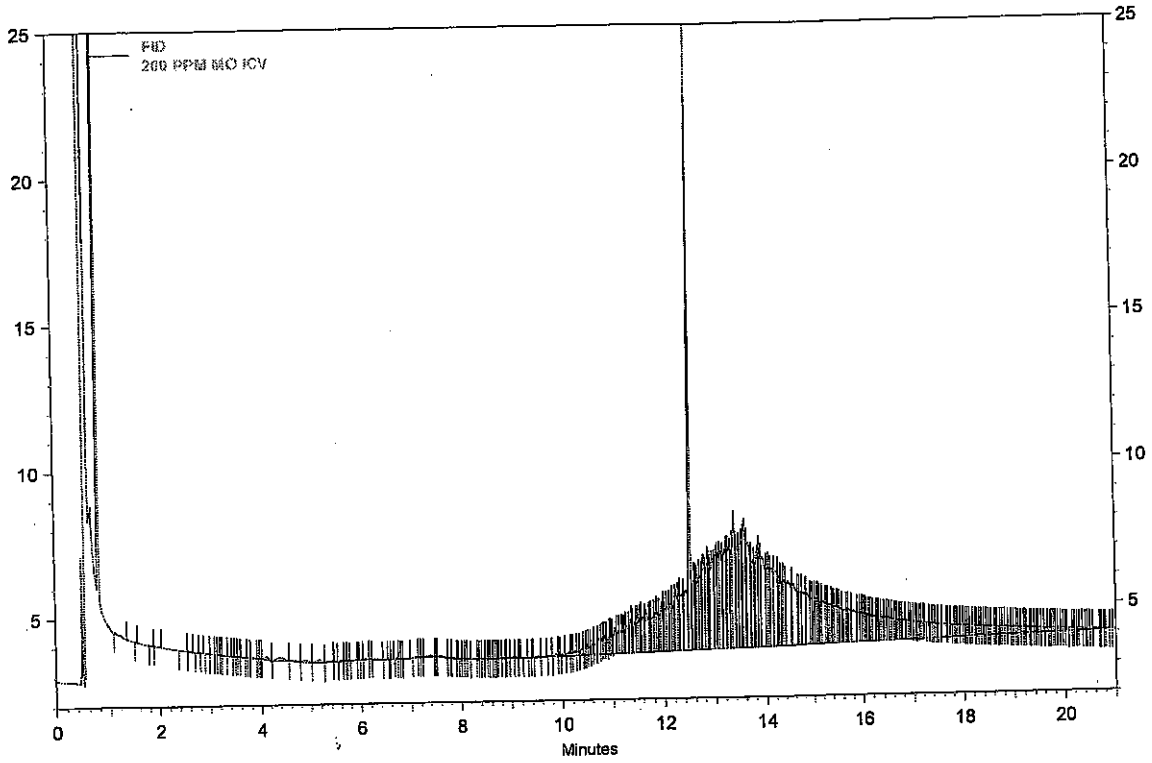
±20%

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	33450	12.880
DRO		86640	32.346
MRO		485663	200.272

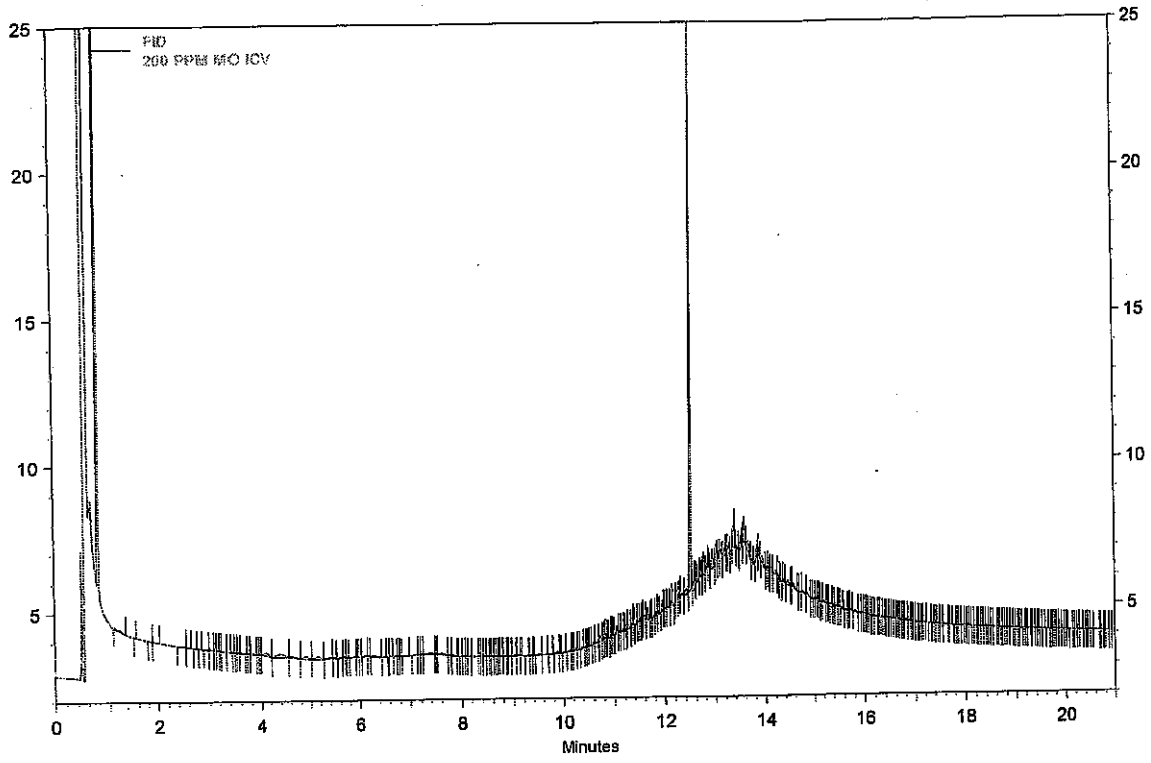
Analyst _____

Reviewed By dam

12.880
- 9.590
3.29
+200.272
203.562
200
X100 = 101.781%
±20%

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	25141	9.590
DRO		10275	4.352
MRO		19443	0.000

Analyst _____

Reviewed By _____

Analytical Report
Lab Order: **1408A76**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-001
Client Sample ID: FFOR-CF-0048
Collection Date: 8/20/2014 3:20:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Toluene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Ethylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Methyl tert-butyl ether (MTBE)	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2,4-Trimethylbenzene	0.19	0.34	J	mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,3,5-Trimethylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2-Dichloroethane (EDC)	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2-Dibromoethane (EDB)	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Naphthalene	1.1	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Acetone	ND	5.1		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Bromobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Bromodichloromethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Bromoform	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Bromomethane	ND	1.0		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
2-Butanone	ND	3.4		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Carbon disulfide	ND	3.4		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Carbon tetrachloride	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Chlorobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Chloroethane	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Chloroform	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Chloromethane	ND	1.0		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
2-Chlorotoluene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
4-Chlorotoluene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
cis-1,2-DCE	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
cis-1,3-Dichloropropene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2-Dibromo-3-chloropropane	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Dibromochloromethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Dibromomethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2-Dichlorobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,3-Dichlorobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,4-Dichlorobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Dichlorodifluoromethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1-Dichloroethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1-Dichloroethene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2-Dichloropropane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,3-Dichloropropane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
2,2-Dichloropropane	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1-Dichloropropene	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Hexachlorobutadiene	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RPD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	3.4		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Isopropylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
4-Isopropyltoluene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
4-Methyl-2-pentanone	ND	3.4		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Methylene chloride	0.13	1.0	J	mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
n-Butylbenzene	0.39	1.0	J	mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
n-Propylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
sec-Butylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Styrene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
tert-Butylbenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1,1,2-Tetrachloroethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1,2,2-Tetrachloroethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Tetrachloroethene (PCE)	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
trans-1,2-DCE	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
trans-1,3-Dichloropropene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2,3-Trichlorobenzene	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2,4-Trichlorobenzene	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1,1-Trichloroethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,1,2-Trichloroethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Trichloroethene (TCE)	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Trichlorofluoromethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
1,2,3-Trichloropropane	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Vinyl chloride	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Xylenes, Total	ND	0.68		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Bromochloromethane	ND	0.34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Vinyl acetate	ND	3.4		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Surr: Dibromofluoromethane	87.6	70-130		%REC	10	R20743	8/21/2014 1:23:32 PM
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%REC	10	R20743	8/21/2014 1:23:32 PM
Surr: Toluene-d8	93.9	70-130		%REC	10	R20743	8/21/2014 1:23:32 PM
Surr: 4-Bromofluorobenzene	147	70-130	S	%REC	10	R20743	8/21/2014 1:23:32 PM

Comment: DUE 08/25

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	280	34		mg/Kg-dry	10	R20743	8/21/2014 1:23:32 PM
Surr: BFB	134	61.2-137		%REC	10	R20743	8/21/2014 1:23:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1408A76**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-002
Client Sample ID: FFOR-CF-0049
Collection Date: 8/20/2014 3:31:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Toluene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Ethylbenzene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2,4-Trimethylbenzene	2.8	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,3,5-Trimethylbenzene	6.2	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,2-Dichloroethane (EDC)	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2-Dibromoethane (EDB)	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Naphthalene	16	1.4		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Acetone	ND	2.7		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Bromobenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Bromodichloromethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Bromoform	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Bromomethane	ND	0.54		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
2-Butanone	ND	1.8		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Carbon disulfide	ND	1.8		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Carbon tetrachloride	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Chlorobenzene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Chloroethane	ND	0.36		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Chloroform	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Chloromethane	ND	0.54		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
2-Chlorotoluene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
4-Chlorotoluene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
cis-1,2-DCE	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
cis-1,3-Dichloropropene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2-Dibromo-3-chloropropane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Dibromochloromethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Dibromomethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2-Dichlorobenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,3-Dichlorobenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,4-Dichlorobenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Dichlorodifluoromethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,1-Dichloroethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,1-Dichloroethene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2-Dichloropropane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,3-Dichloropropane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
2,2-Dichloropropane	ND	0.36		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,1-Dichloropropene	ND	0.36		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Hexachlorobutadiene	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Not greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8260B: VOLATILES

Analyst: RAA

2-Hexanone	ND	1.8		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Isopropylbenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
4-Isopropyltoluene	2.9	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
4-Methyl-2-pentanone	ND	1.8		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Methylene chloride	0.082	0.54	J	mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
n-Butylbenzene	ND	2.2		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
n-Propylbenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
sec-Butylbenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Styrene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
tert-Butylbenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,1,1,2-Tetrachloroethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,1,2,2-Tetrachloroethane	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Tetrachloroethene (PCE)	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
trans-1,2-DCE	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
trans-1,3-Dichloropropene	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2,3-Trichlorobenzene	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,2,4-Trichlorobenzene	ND	0.72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
1,1,1-Trichloroethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,1,2-Trichloroethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Trichloroethene (TCE)	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Trichlorofluoromethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
1,2,3-Trichloropropane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Vinyl chloride	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Xylenes, Total	1.0	0.36		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Bromochloromethane	ND	0.18		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Vinyl acetate	ND	1.8		mg/Kg-dry	5	R20743	8/21/2014 1:51:34 PM
Surr: Dibromofluoromethane	84.5	70-130		%REC	5	R20743	8/21/2014 1:51:34 PM
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%REC	5	R20743	8/21/2014 1:51:34 PM
Surr: Toluene-d8	92.8	70-130		%REC	5	R20743	8/21/2014 1:51:34 PM
Surr: 4-Bromofluorobenzene	160	70-130	S	%REC	20	R20775	8/22/2014 2:37:08 PM

Comment: DUE 08/25

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: RAA

Gasoline Range Organics (GRO)	1300	72		mg/Kg-dry	20	R20775	8/22/2014 2:37:08 PM
Surr: BFB	146	61.2-137	S	%REC	20	R20775	8/22/2014 2:37:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-003
Client Sample ID: FFOR-CF-0050
Collection Date: 8/20/2014 3:40:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Toluene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Ethylbenzene	0.47	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Methyl tert-butyl ether (MTBE)	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2,4-Trimethylbenzene	20	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,3,5-Trimethylbenzene	6.6	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2-Dichloroethane (EDC)	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2-Dibromoethane (EDB)	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Naphthalene	15	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Acetone	3.0	5.0	E	mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Bromobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Bromodichloromethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Bromoform	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Bromomethane	ND	0.99		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
2-Butanone	1.3	3.3	J	mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Carbon disulfide	ND	3.3		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Carbon tetrachloride	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Chlorobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Chloroethane	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Chloroform	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Chloromethane	ND	0.99		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
2-Chlorotoluene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
4-Chlorotoluene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
cis-1,2-DCE	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
cis-1,3-Dichloropropene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2-Dibromo-3-chloropropane	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Dibromochloromethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Dibromomethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2-Dichlorobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,3-Dichlorobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,4-Dichlorobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Dichlorodifluoromethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1-Dichloroethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1-Dichloroethene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2-Dichloropropane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,3-Dichloropropane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
2,2-Dichloropropane	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1-Dichloropropene	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Hexachlorobutadiene	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	3.3		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Isopropylbenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
4-Isopropyltoluene	5.2	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
4-Methyl-2-pentanone	ND	3.3		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Methylene chloride	ND	0.99		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
n-Butylbenzene	12	0.99		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
n-Propylbenzene	0.98	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
sec-Butylbenzene	2.3	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Styrene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
tert-Butylbenzene	0.089	0.33	J	mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1,1,2-Tetrachloroethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1,2,2-Tetrachloroethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Tetrachloroethene (PCE)	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
trans-1,2-DCE	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
trans-1,3-Dichloropropene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2,3-Trichlorobenzene	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2,4-Trichlorobenzene	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1,1-Trichloroethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,1,2-Trichloroethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Trichloroethene (TCE)	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Trichlorofluoromethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
1,2,3-Trichloropropane	ND	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Vinyl chloride	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Xylenes, Total	3.8	0.66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Bromochloromethane	ND	0.33		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Vinyl acetate	ND	3.3		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Surr: Dibromofluoromethane	93.3	70-130		%REC	20	R20775	8/22/2014 3:32:56 PM
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%REC	20	R20775	8/22/2014 3:32:56 PM
Surr: Toluene-d8	91.2	70-130		%REC	20	R20775	8/22/2014 3:32:56 PM
Surr: 4-Bromofluorobenzene	210	70-130	S	%REC	20	R20775	8/22/2014 3:32:56 PM

Comment: DUE 08/25

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	1800	66		mg/Kg-dry	20	R20775	8/22/2014 3:32:56 PM
Surr: BFB	169	61.2-137	S	%REC	20	R20775	8/22/2014 3:32:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1408A76**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-004
Client Sample ID: MEOH BLANK
Collection Date:
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Toluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Naphthalene	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Acetone	0.20	0.75	BJ	mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Bromoform	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Bromomethane	ND	0.15		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
2-Butanone	0.11	0.50	J	mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Chloroethane	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Chloroform	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Chloromethane	ND	0.15		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Methylene chloride	0.016	0.15	J	mg/Kg	1	R20775	8/22/2014 1:13:10 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Styrene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20775	8/22/2014 1:13:10 PM
Surr: Dibromofluoromethane	84.0	70-130		%REC	1	R20775	8/22/2014 1:13:10 PM
Surr: 1,2-Dichloroethane-d4	83.2	70-130		%REC	1	R20775	8/22/2014 1:13:10 PM
Surr: Toluene-d8	93.6	70-130		%REC	1	R20775	8/22/2014 1:13:10 PM
Surr: 4-Bromofluorobenzene	81.1	70-130		%REC	1	R20775	8/22/2014 1:13:10 PM

Comment: DUE 08/25

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg-dry	1	R20775	8/22/2014 1:13:10 PM
Surr: BFB	107	61.2-137		%REC	1	R20775	8/22/2014 1:13:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Mon Aug 25 09:03:57 2014

mpleList: C:\VarianWS\082114v.smp

eated: Thu Aug 21 09:21:33 2014
odified: Fri Aug 22 05:15:29 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0509	
2	5mL-rb	none
3	rtm	below
	Notes V-18-2064	
4	2.25ug gro ccv	below
	Notes V-18-2061	
5	2.5ug gro lcs	below
	Notes V-18-2067	
6	75ng ccv	below
	Notes V-54-0466	
7	100ng lcs	below
	Notes V-11-8065	
8	vcb	none
9	1408a76-001a	below
	Notes x10-10uL MeOH G, 8260	
10	1408a76-002a	below
	Notes x5-20uL MeOH G, 8260 r20	
11	1408a76-003a	below
	Notes x10-10uL MeOH G, 8260 r20	
12	1408a76-004a	below
	Notes x1-100uL MeOH Blk G, 8260 r1	
13	1408a76-001a ms	below
	Notes x10 MeOH 8260 V-11-8065	
14	1408a76-001a msd	below
	Notes x10 MeOH 8260 V-11-8065	
15	1408a76-001a ms g	below
	Notes x10 MeOH GRO V-18-2067	
16	1408a76-001a msd g	below
	Notes x10 MeOH GRO V-18-2067	
17	1408994-001a ms	below
	Notes MeOH GRO V-18-2067	
18	1408994-001a msd	below
	Notes MeOH GRO V-18-2067	
19	1408994-002a ms	below
	Notes x10 MeOH 8260 V-11-8065	
20	1408994-002a msd	below
	Notes x10 MeOH 8260 V-11-8065	
21	1408895-001a ms	below
	Notes SL_W V-11-8065	
22	1408895-001a msd	below
	Notes SL_W V-11-8065	
23	1408898-001a	below
	Notes r5-1mL	
24	1408911-003a	below
	Notes r2-2.5mL DDS	
25	1408900-001a	below
	Notes r5-20uL PB14842	
26	1408900-001ams	below
	Notes r5 V-11-8065 PB14842	
27	1408900-001amsd	below
	Notes r5 V-11-8065 PB14842	
28	lcs-14852	below
	Notes V-11-8065 TCLP	
29	lcs-14844	below
	Notes V-11-8065 oil	
30	lcsd-14844	below
	Notes V-11-8065 oil	
31	mb-14844	below
	Notes #4681 oil	
32	tt	none
33	b2	none
34	50ng ccv	below
	Notes v-54-0466	
35	vcb	none
36	1408904-003a	below

Loaded By: 9.21.14
1st Review By: 9.22.14
QA'd By: 8/25/14
JC 8.26.14

		Notes	x100-1uL oil	pb14844
38	1408906-001a		below	
		Notes	x100-1uL oil	pb14844
39	1408906-002a		below	
		Notes	x100-1uL oil	pb14844
40	1408906-003a		below	
		Notes	x100-1uL oil	pb14844
41	1408906-004a		below	
		Notes	x100-1uL oil	pb14844
42	1408906-005a		below	
		Notes	x100-1uL oil	pb14844
43	1408a51-001a		below	
		Notes	x2 2.5mL dds	
44	1408a51-001ams		below	
		Notes	x2 v-11-8065	dds
45	1408a51-001amsd		below	
		Notes	x2 v-11-8065	dds
46	1408a51-002a		below	
		Notes	x500 0.01ml	
47	1408a51-002a		below	
		Notes	r50 0.1mL	
48	1408a51-003a		below	
		Notes	x2 2.5mL dds	
49		tt	none	
50				

hardcal < below

software glitch data not acquired

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\082114v.rcl.

Loaded By: 8.21.14

1st Review By: 8.22.14

QA'd By: 8/25/14

JC 8.26.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082114v\75ng ccv 8-21-2014.SMS Lab Sample ID: 75ng ccv

Instrument ID: VAL Date Analyzed: 8/21/2014 Time Analyzed: 11:57

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	29751	8.00	44379	14.31	22620	17.91						
UPPER LIMIT	59502	8.50	88758	14.81	45240	18.41						
LOWER LIMIT	14876	7.50	22190	13.81	11310	17.41						
EPA SAMPLE NO												
b1 8-21-20	34150	7.98	43723	14.31	21376	17.92						
5mL-rb 8-2	33447	8.00	44396	14.30	21875	17.91						
rtm 8-21-2	30206	8.00	40702	14.30	20877	17.91						
2.25ug gro	30746	8.00	43749	14.31	23187	17.91						
2.5ug gro	30907	7.99	45318	14.31	22780	17.91						
100ng lcs	30629	8.00	43559	14.31	22361	17.91						
vcb 8-21-2	29822	8.00	41747	14.31	21454	17.91						
1408a76-00	32099	8.00	44330	14.31	23204	17.92						
1408a76-00	33932	8.00	48503	14.31	26182 D	17.92 D						
1408a76-00	31412	8.00	45895	14.31	23380 D	17.92 D						
1408a76-00	30585	8.00	41016	14.31	27317	17.92						
1408a76-00	32220	8.00	45871	14.31	24612	17.91						
1408a76-00	32535	8.00	44956	14.31	25508 D	17.92 D						
1408a76-00	36262	8.00	49578	14.31	27185 D	17.92 D						
1408a76-00	34729	8.00	49084	14.31	26520 D	17.91 D						
1408994-00	32864	8.00	41457	14.32	28306	17.92						

8/22/2014 12:03

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408994-00	35287	8.00	44216	14.32	30541	17.92						
1408994-00	34748	8.01	49972	14.31	26711	17.92						
1408994-00	33134	8.00	48780	14.31	25797	17.92						
1408895-00	30341	8.00	43650	14.31	23880	17.92						
1408895-00	29896	8.00	43854	14.31	23853	17.92						
1408898-00	29961	8.00	43648	14.31	23715	17.91						
1408911-00	29558	8.00	43233	14.31	24172	17.92						
1408900-00	33807	8.00	49713	14.31	24520 D	17.91 D						
1408900-00	36980	8.01	52280	14.31	20979 D	17.92 D						
1408900-00	38232	8.00	53229	14.31	24967 D	17.92 D						
lcs-14852	34354	8.00	47454	14.31	27301	17.91						
lcs-14844	34452	8.00	44226	14.32	30792	17.92						
lcsd-14844	32961	8.00	44622	14.31	30676	17.92						
mb-14844 8	34498	7.99	46075	14.31	31179	17.91						
tt 8-22-20	33004	8.00	47339	14.31	26177	17.92						
b2 8-22-20	29660	8.00	42143	14.32	24291	17.92						
50ng ccv 8	29991	8.00	44179	14.32	24625	17.92						
vcb 8-22-2	33159	8.00	46357	14.31	25999	17.91						
1408904-00	30436	8.00	44340	14.31	25301	17.92						
1408904-00	28478	8.00	41152	14.31	24039	17.92						
1408906-00	29214	8.00	43902	14.31	24347	17.92						
1408906-00	29437	8.00	44514	14.31	25188	17.91						
1408906-00	30544	8.00	46820	14.31	25425	17.91						
1408906-00	31820	8.00	46576	14.31	24817	17.92						
1408906-00	32102	8.00	46916	14.31	25982	17.92						
1408a51-00	30306	8.00	45639	14.31	26242	17.91						

RT 8-22-14

JB 8/25/14

Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/21/2014 Time: 10:59

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.25ug gro ccv 8-21-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2777.942	0.100	2.25	2.29	-1.8	20.0	PASS	PASS
BFB	0.990	0.100	50.00	47.58	4.8	30.0	PASS	PASS

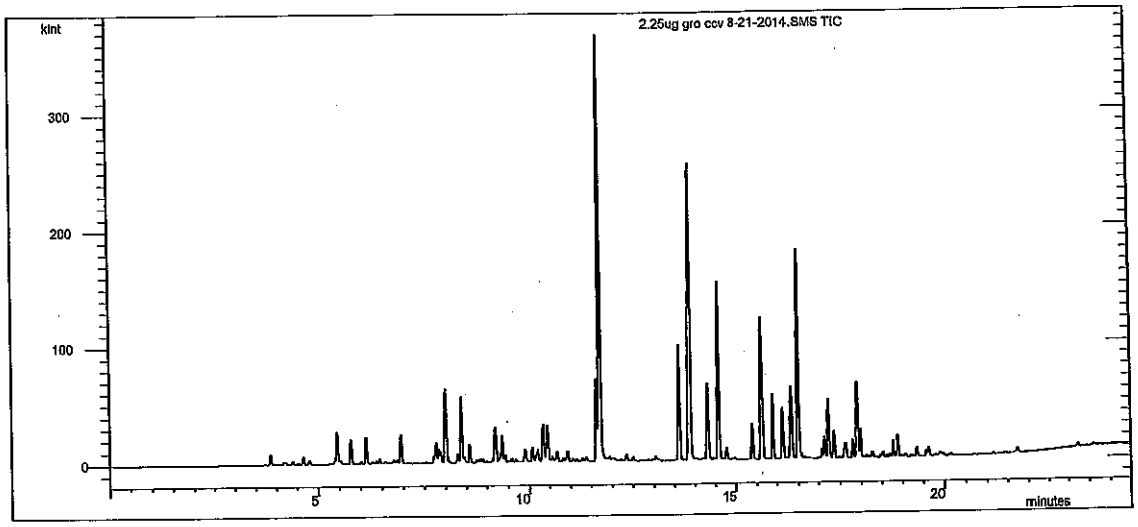
8.22.14

✓ NB 8/25/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/21/2014 10:59:22 AM
Calculation Date:	8/21/2014 11:30:27 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1199	Identified	43093	50.000
GRO	11.000	905	Identified	5.387E6	2.291
BFB	16.339	1379	Identified	42682	47.579

```
**********************************************************
Revision Log
**********************************************************

8/21/2014 11:23 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
8/21/2014 11:30 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/21/2014 Time: 11:57

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 8-21-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.040	0.100	75.00	112.14	-49.5	30.0	FAIL	PASS
Chloromethane	0.447	0.100	75.00	72.86	2.9	30.0	PASS	PASS
Vinyl chloride	1.448	0.100	75.00	80.67	-7.6	20.0	PASS	PASS
Chloroethane	0.199	0.100	75.00	67.41	10.1	30.0	PASS	PASS
Bromomethane	0.703	0.100	75.00	63.02	16.0	30.0	PASS	PASS
Trichlorofluoromethane	0.958	0.100	75.00	86.56	-15.4	30.0	PASS	PASS
1,1-Dichloroethene	1.311	0.100	75.00	82.19	-9.6	20.0	PASS	PASS
Acetone	0.420	0.100	150.00	128.53	14.3	40.0	PASS	PASS
Carbon disulfide	1.094	0.100	150.00	174.57	-16.4	40.0	PASS	PASS
Iodomethane	0.315	0.100	150.00	106.87	28.8	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.335	0.100	150.00	159.51	-6.3	30.0	PASS	PASS
Isopropyl ether	1.512	0.100	150.00	169.29	-12.9	40.0	PASS	PASS
tert-Butyl alcohol	0.299	0.100	1500.00	1662.66	-10.8	40.0	PASS	PASS
trans-1,2-DCE	1.499	0.100	75.00	81.22	-8.3	30.0	PASS	PASS
tert-Butyl ethyl ether	3.040	0.100	150.00	173.38	-15.6	40.0	PASS	PASS
1,1-Dichloroethane	1.415	0.100	75.00	74.00	1.3	30.0	PASS	PASS
Methylene Chloride	1.485	0.100	75.00	76.21	-1.6	30.0	PASS	PASS
Vinyl Acetate	2.445	0.100	150.00	205.08	-36.7	40.0	PASS	PASS
2,2-Dichloropropane	0.891	0.100	75.00	83.28	-11.0	30.0	PASS	PASS
2-Butanone	0.540	0.100	150.00	152.46	-1.6	40.0	PASS	PASS
1,1,1-Trichloroethane	1.560	0.100	75.00	79.00	-5.3	30.0	PASS	PASS
tert-Amyl methyl ether	1.399	0.100	150.00	152.92	-1.9	40.0	PASS	PASS
1,1-Dichloropropene	0.676	0.100	75.00	76.19	-1.6	30.0	PASS	PASS
Carbon Tetrachloride	3.356	0.100	75.00	81.73	-9.0	30.0	PASS	PASS
cis-1,2-DCE	1.995	0.100	75.00	77.74	-3.6	30.0	PASS	PASS
Benzene	1.949	0.100	75.00	80.96	-8.0	30.0	PASS	PASS
Chloroform	1.399	0.100	75.00	85.04	-13.4	20.0	PASS	PASS
Bromochloromethane	0.486	0.100	75.00	83.68	-11.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.266	0.100	75.00	78.76	-5.0	30.0	PASS	PASS
Dibromofluoromethane	1.586	0.100	50.00	46.09	7.8	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.575	0.100	50.00	49.86	0.3	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.752	0.100	75.00	80.07	-6.8	30.0	PASS	PASS
1,2-Dichloropropane	1.964	0.100	75.00	80.76	-7.7	20.0	PASS	PASS
4-Methyl-2-pentanone	2.130	0.100	150.00	170.66	-13.8	40.0	PASS	PASS
Toluene-d8	1.769	0.100	50.00	45.29	9.4	30.0	PASS	PASS

or hits

MF 9-22-14

1 DBG/25/14

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.653	0.100	75.00	75.42	-0.6	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.955	0.100	150.00	142.21	5.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.264	0.100	75.00	75.15	-0.2	30.0	PASS	PASS
cis-1,3-dichloropropene	2.011	0.100	75.00	72.77	3.0	30.0	PASS	PASS
2-Hexanone	0.969	0.100	150.00	159.85	-6.6	40.0	PASS	PASS
Bromodichloromethane	2.486	0.100	75.00	74.23	1.0	30.0	PASS	PASS
Dibromomethane	1.156	0.100	75.00	74.69	0.4	30.0	PASS	PASS
1,3-Dichloropropane	1.455	0.100	75.00	74.70	0.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.733	0.100	75.00	70.45	6.1	30.0	PASS	PASS
Ethylbenzene	2.964	0.100	75.00	75.63	-0.8	20.0	PASS	PASS
mp-Xylenes	2.676	0.100	150.00	149.00	0.7	30.0	PASS	PASS
1,1,2-Trichloroethane	1.701	0.100	75.00	73.18	2.4	30.0	PASS	PASS
Chlorobenzene	1.245	0.300	75.00	72.04	3.9	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.413	0.100	75.00	75.09	-0.1	30.0	PASS	PASS
o-Xylene	2.640	0.100	75.00	74.37	0.8	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.193	0.100	75.00	71.66	4.5	30.0	PASS	PASS
Dibromochloromethane	1.283	0.100	75.00	74.14	1.1	30.0	PASS	PASS
Isopropylbenzene	2.541	0.100	75.00	73.10	2.5	30.0	PASS	PASS
Styrene	1.173	0.100	75.00	69.49	7.3	30.0	PASS	PASS
n-Propylbenzene	6.424	0.100	75.00	78.59	-4.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.592	0.100	75.00	77.74	-3.7	30.0	PASS	PASS
tert-Butylbenzene	5.031	0.100	75.00	77.18	-2.9	30.0	PASS	PASS
2-Chlorotoluene	1.579	0.100	75.00	75.79	-1.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.896	0.100	50.00	46.52	7.0	30.0	PASS	PASS
sec-Butylbenzene	3.107	0.100	75.00	68.39	8.8	30.0	PASS	PASS
4-Chlorotoluene	1.562	0.100	75.00	72.11	3.9	30.0	PASS	PASS
Bromobenzene	1.438	0.100	75.00	79.71	-6.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.912	0.100	75.00	78.68	-4.9	30.0	PASS	PASS
4-Isopropyltoluene	4.911	0.100	75.00	75.42	-0.6	30.0	PASS	PASS
Bromoform	1.723	0.100	75.00	75.24	-0.3	30.0	PASS	PASS
1,2,3-Trichloropropane	1.413	0.100	75.00	78.76	-5.0	30.0	PASS	PASS
n-Butylbenzene	4.688	0.100	75.00	76.68	-2.2	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	2.098	0.300	75.00	86.00	-14.7	30.0	PASS	PASS
1,3-Dichlorobenzene	2.064	0.100	75.00	73.92	1.4	30.0	PASS	PASS
1,4-Dichlorobenzene	1.980	0.100	75.00	73.33	2.2	30.0	PASS	PASS
1,2-Dichlorobenzene	2.002	0.100	75.00	74.01	1.3	30.0	PASS	PASS
Hexachlorobutadiene	4.876	0.100	75.00	75.30	-0.4	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.849	0.100	75.00	81.86	-9.1	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.532	0.100	75.00	72.81	2.9	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.622	0.100	75.00	76.46	-1.9	30.0	PASS	PASS
Naphthalene	3.094	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
2-Methylnaphthalene	2.242	0.100	75.00	74.57	0.6	40.0	PASS	PASS
1-Methylnaphthalene	2.203	0.100	75.00	75.67	-0.9	40.0	PASS	PASS

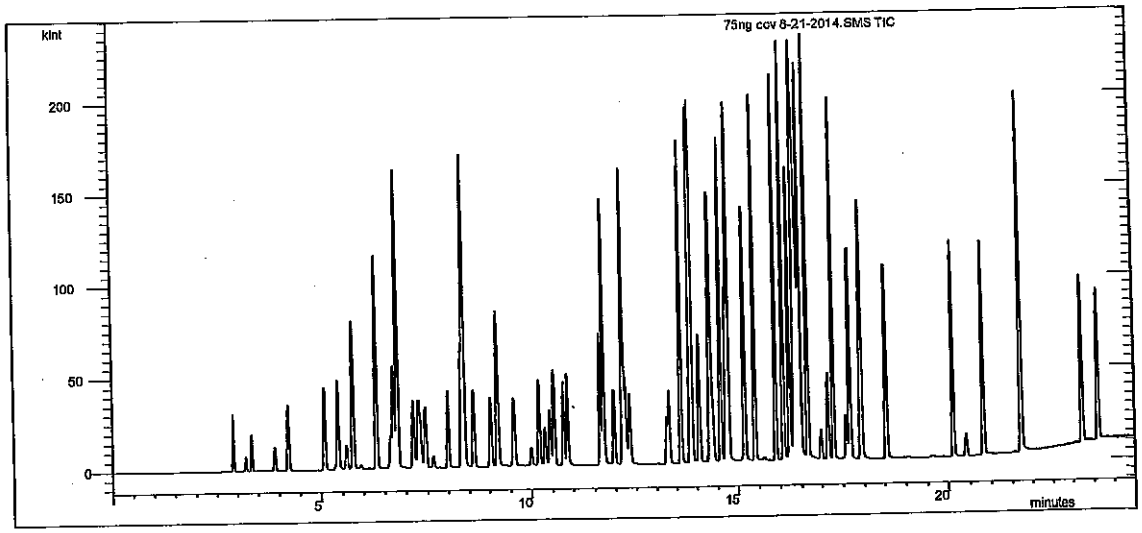
RAA 8-22-14

DBB 8/25/14

Analyst: RAA

8260B/624 Report

Sample Name:	75ng ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0466	**Acquisition Date:**	8/21/2014 11:57:01 AM
Calculation Date:	8/21/2014 12:21:30 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.996	636	Identified	29751	50.000
Benzene-d5-, chloro-	14.306	1195	Identified	44379	50.000
1,4-Dichlorobenzene-d4	17.910	1515	Identified	22620	50.000
Dichlorodifluoromethane	2.904	184	Identified	91019	112.140
Chloromethane	3.205	211	Identified	19940	72.860
Vinyl chloride	3.353	224	Identified	64602	80.666
Chloroethane	3.886	272	Identified	8872	67.412
Bromomethane	3.904	273	Identified	31355	63.023
Trichlorofluoromethane	4.227	302	Identified	42770	86.563
1,1-Dichloroethene	5.088	378	Identified	58493	82.194
Acetone	5.370	403	Identified	37503	128.534
Carbon disulfide	5.401	406	Identified	97643	174.566
Iodomethane	5.601	424	Identified	28140	106.867
Methyl tert-butyl ether (MTBE)	5.754	437	Identified	119129	159.514
Isopropyl ether	6.312	487	Identified	134943	169.294
tert-Butyl alcohol	6.642	516	Identified	267260	1662.657
trans-1,2-DCE	6.714	522	Identified	66899	81.225
tert-Butyl ethyl ether	6.801	530	Identified	271351	173.384
1,1-Dichloroethane	7.174	563	Identified	63125	74.004
Methylene Chloride	7.296	573	Identified	66285	76.213
Vinyl Acetate	7.349	578	Identified	218236	205.078
2,2-Dichloropropane	7.455	588	Identified	39764	83.284
2-Butanone	7.637	604	Identified	48166	152.458
1,1,1-Trichloroethane	8.312	664	Identified	69631	78.997

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.369	669	Identified	124858	152.920
1,1-Dichloropropene	8.383	670	Identified	30152	76.195
Carbon Tetrachloride	8.614	690	Identified	149768	81.727
cis-1,2-DCE	9.031	727	Identified	89015	77.736
Benzene	9.191	742	Identified	86987	80.964
Chloroform	9.590	777	Identified	62449	85.044
Bromochloromethane	10.001	813	Identified	21704	83.678
Trichloroethene (TCE)	10.191	830	Identified	56489	78.760
Dibromofluoromethane	10.329	843	Identified	47192	46.091
1,2-Dichloroethane-d4	10.443	853	Identified	136097	49.862
1,2-Dichloroethane (EDC)	10.537	861	Identified	78186	80.073
1,2-Dichloropropane	10.766	882	Identified	87652	80.763
4-Methyl-2-pentanone	10.863	890	Identified	190118	170.662
Toluene-d8	11.631	958	Identified	78498	45.288
Toluene	11.711	965	Identified	176613	75.416
2-Chloroethyl vinyl ether	11.963	988	Identified	127105	142.208
Tetrachloroethene (PCE)	12.174	1006	Identified	84128	75.149
cis-1,3-dichloropropene	12.173	1006	Identified	133883	72.769
2-Hexanone	12.180	1007	Identified	129045	159.852
Bromodichloromethane	12.241	1012	Identified	165463	74.227
Dibromomethane	12.347	1022	Identified	76964	74.687
1,3-Dichloropropane	13.251	1102	Identified	96885	74.704
trans-1,3-dichloropropene	13.310	1107	Identified	48820	70.446
Ethylbenzene	13.608	1133	Identified	197339	75.631
mp-Xylenes	13.857	1155	Identified	356221	149.002
1,1,2-Trichloroethane	14.063	1173	Identified	113256	73.178
Chlorobenzene	14.328	1197	Identified	82877	72.042
1,2-Dibromoethane (EDB)	14.383	1202	Identified	94085	75.093
o-Xylene	14.577	1219	Identified	175740	74.370
1,1,1,2-Tetrachloroethane	14.705	1230	Identified	146001	71.658
Dibromochloromethane	14.735	1233	Identified	85413	74.143
Isopropylbenzene	14.768	1236	Identified	169120	73.104
Styrene	15.162	1271	Identified	78054	69.492
n-Propylbenzene	15.403	1292	Identified	217961	78.588
1,3,5-Trimethylbenzene	15.894	1336	Identified	155820	77.740
tert-Butylbenzene	16.090	1353	Identified	170684	77.183
2-Chlorotoluene	16.239	1366	Identified	53568	75.791
4-Bromofluorobenzene	16.337	1375	Identified	42897	46.519
sec-Butylbenzene	16.365	1377	Identified	105436	68.395
4-Chlorotoluene	16.402	1381	Identified	53003	72.107
Bromobenzene	16.442	1384	Identified	48804	79.707
1,2,4-Trimethylbenzene	16.494	1389	Identified	166663	78.676
4-Isopropyltoluene	16.654	1403	Identified	166630	75.417
Bromoform	16.986	1433	Identified	58459	75.236
1,2,3-Trichloropropane	17.156	1448	Identified	47935	78.758
n-Butylbenzene	17.283	1459	Identified	159072	76.683
1,1,2,2-Tetrachloroethane	17.577	1485	Identified	71191	86.002
1,3-Dichlorobenzene	17.663	1493	Identified	70019	73.925
1,4-Dichlorobenzene	17.935	1517	Identified	67189	73.326
1,2-Dichlorobenzene	18.541	1571	Identified	67938	74.006

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.126	1710	Identified	165457	75.297
1,2-Dibromo-3-chloropropane	20.415	1736	Identified	28813	81.855
1,2,4-Trichlorobenzene	20.824	1772	Identified	51965	72.812
1,2,3-Trichlorobenzene	21.727	1852	Identified	55024	76.457
Naphthalene	21.735	1853	Identified	104968	75.376
2-Methylnaphthalene	23.220	1987	Identified	76075	74.573
1-Methylnaphthalene	23.609	2023	Identified	74738	75.670

****
Revision Log
****

8/21/2014 12:21 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

rian Star Workstation - Generic SampleList Fri Aug 22 16:52:59 2014

mpleList: C:\VarianWS\082214v.smp

eated: Fri Aug 22 08:41:35 2014
dified: Fri Aug 22 16:52:55 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-2064, All injections contain V-52-0509	
2	5mL rb	none ← Tune 12:39 9:57 8/25/2014
3	2.0ug gro ccv	below
	Notes V-18-2061	
4	2.5ug gro lcs	below
	Notes V-18-2067	
5	100ng ccv	below @ 11:21
	Notes V-54-0466	
6	100ng lcs	below
	Notes V-11-8067	
7	vcb	none ← Tune 12:17
8	1408b56-002a	below
	Notes x1-100uL MeOH Blk G, 8260	
9	1408a76-002a 004a	below
	Notes r1-100uL MeOH Blk G, 8260	
10	1408b56-001a	below
	Notes x20-5uL MeOH G, 8260	
11	b1	none
12	1408a76-002a	below
	Notes r20-5uL MeOH G, 8260	
13	b2	none
14	1408a76-003a	below
	Notes r20-5uL MeOH G, 8260	
15	b3	none
16	1408b56-001a ms	below
	Notes x20 V-11-8067	
17	1408b56-001a msd	below
	Notes x20 V-11-8067	
18	1408b56-001a ms g	below
	Notes x20 V-18-2067	
19	1408b56-001a msd g	below
	Notes x20 V-18-2067	
20	1408900-001a	below
	Notes r50-2uL PB14842 X, TMB's	
21	1408904-003a	below
	Notes r1-100uL PB14844 V_O	
22	1408904-007a	below
	Notes r1-100uL PB14844 V_O	
23	lcs-14868	below
	Notes V-11-8065	
24	mb-14868	below
	Notes 4681	
25	1408914-001a	below
	Notes x2-50uL pb14868	
26	1408914-003a	below
	Notes x1-100uL pb14868	
27	1408914-006a	below
	Notes x1-100uL pb14868	
28	1408914-007a	below
	Notes x1-100uL pb14868	
29 @ 10:31	1408a29-001a	below
	Notes x2-50uL pb14868 @ 11:30	
30	tt	none
31	b4	none tune 11:17
32	75ng ccv	below @ 11:54
	Notes V-54-0466	
33	vcb2	none
34	1408a29-002a	below
	Notes x2-50uL pb14868	
35	1408a29-003a	below
	Notes x2-50uL pb14868	
36	1408a29-004a	below
	Notes x10-10uL pb14868 (100-E	
37	1408a29-005a	below
	Notes x20-5uL pb14868	

8/25/2014 hardcopy

Loaded By: 8.22.14
1st Review By: 8.25.14
QA'd By: JC 8.26.14

1408914

8260 MS/D for PB14868 was prepared for -002A. -002 Not requested for 8260 analysis. 8.25.14

```
                Notes  x10-100uL pb14868
39          1408a29-007a      below
                Notes  x1-100uL pb14868
40          1408a29-008a      below
                Notes  x1-100uL pb14868
41          1408a29-009a      below
                Notes  x1-100uL pb14868
42          1408a29-010a      below
                Notes  x20-5uL pb14868
43          1408b16-001a      below  r10-B
                Notes  x1-5mL
44       1408b16-001a ms      below
                Notes  x1-5mL V-11-8067
45      1408b16-001a msd      below
                Notes  x1-5mL V-11-8067
46          1408b16-002a      below  r1 B c-od
                Notes  x1-5mL
47          1408b16-003a      below
                Notes  x1-5mL
48          1408b16-004a      below
                Notes  x2-2.5mL dds
49          1408b16-005a      below
                Notes  x1-5mL TB
50          1408b58-001a      below
                Notes  x1-5mL
51          1408b58-002a      below
                Notes  x1-5mL
52  hemolyzed 1408b58-003a    below  r1-DCDFM
                Notes  x1-5mL
53          1408b58-004a      below
                Notes  x1-5mL
54  @ 10:08 1408b58-005a      below
                Notes  x1-5mL TB
55

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\082214v.rcl.
```

Loaded By: 8.22.14
1st Review By: 8.25.14
QA'd By: 8.26.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082214v\100ng ccv 8-22-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 8/22/2014 Time Analyzed: 11:21

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	28861	7.99	45322	14.30	24932	17.91						
UPPER LIMIT	57722	8.49	90644	14.80	49864	18.41						
LOWER LIMIT	14431	7.49	22661	13.80	12466	17.41						
EPA SAMPLE NO												
rtm 8-22-2	33276	7.99	46865	14.30	26570	17.91						
5mL rb 8-2	30691	7.99	45344	14.30	24902	17.90						
2.0ug gro	30729	7.99	45254	14.30	25404	17.91						
2.5ug gro	31003	7.99	45081	14.30	25050	17.91						
100ng lcs	28934	7.99	44320	14.30	23585	17.91						
vcb 8-22-2	29889	7.99	43377	14.30	24193	17.90						
1408b56-00	29795	7.99	40427	14.30	25417	17.90						
1408a76-00	30472	7.99	40000	14.30	26890	17.90						
1408b56-00	31221	7.99	47061	14.30	24896 D	17.91 D						
b1 8-22-20	31116	7.99	45354	14.30	25120	17.90						
1408a76-00	30297	7.99	47484	14.30	25905 D	17.91 D						
b2 8-22-20	31885	7.99	44852	14.30	24954	17.91						
1408a76-00	28436	7.99	43941	14.31	21680 D	17.91 D						
b3 8-22-20	30505	8.00	43653	14.31	24903	17.91						
1408b56-00	28641	8.00	44813	14.31	20684 D	17.91 D						
1408b56-00	31624	8.00	46512	14.31	23642 D	17.91 D						

8-26-14

8-26-14

8/25/2014 16:38

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408b56-00	31571	8.00	46333	14.31	24307 D	17.91 D						
1408b56-00	33790	8.00	47999	14.31	27530 D	17.91 D						
1408900-00	32010	8.00	46858	14.31	24772 D	17.91 D						
1408904-00	33186	7.99	46195	14.30	29312 D	17.90 D						
1408904-00	33268	7.99	43680	14.31	30265	17.91						
lcs-14868	32800	7.99	45185	14.31	30181	17.91						
mb-14868 8	31994	7.99	43053	14.31	28337	17.91						
1408914-00	35423	7.99	48602	14.31	27278	17.91						
1408914-00	32915	7.99	43971	14.31	29066	17.91						
1408914-00	30585	7.99	41164	14.31	28634	17.91						
1408914-00	32104	7.99	45032	14.31	28772	17.91						
1408a29-00	32884	7.99	46093	14.31	27490	17.91						
tt 8-22-20	30797	7.99	43528	14.31	24775	17.91						
b4 8-22-20	29813	7.99	42939	14.30	24580	17.91						
75ng ccv 8	28619	7.99	42517	14.31	24349	17.91						
vcb2 8-23-	28015	8.00	42717	14.31	23936	17.91						
1408a29-00	32656	7.99	44564	14.31	24234	17.91						
1408a29-00	31750	7.99	45414	14.31	24463	17.91						
1408a29-00	31304	8.00	46913	14.31	26034 D	17.91 D						
1408a29-00	30339	7.99	45079	14.31	25252	17.91						
1408a29-00	30293	7.99	44789	14.31	25440	17.91						
1408a29-00	28984	7.99	41708	14.31	26375	17.91						
1408a29-00	29853	7.99	41094	14.31	27850	17.91						
1408a29-00	29505	7.99	41467	14.31	26652	17.91						
1408a29-01	30018	8.00	43601	14.31	24906	17.91						
1408b16-00	28874	8.00	42740	14.31	24085	17.91						
1408b16-00	27975	8.00	41911	14.30	24150	17.90						
1408b16-00	27568	8.00	42586	14.31	24580	17.91						
1408b16-00	27879	7.99	39578	14.31	22384	17.91						
1408b16-00	27313	7.99	41521	14.31	22308	17.91						
1408b16-00	27062	7.99	40641	14.31	22198	17.91						
1408b16-00	26041	7.99	38567	14.30	22700	17.90						
1408b58-00	27232	7.99	40173	14.30	23056	17.91						
1408b58-00	27110	7.99	39814	14.31	22417	17.91						

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Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408b58-00	26235	7.99	40056	14.31	22301	17.91						
1408b58-00	26347	7.99	40580	14.30	22959	17.91						
1408b58-00	26884	7.99	39161	14.30	22656	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

RT 8.26.14

JC 8-26-14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/22/2014 Time: 10:25

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\pending\082214v\gro\2.0ug gro ccv 8-22-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2813.408	0.100	2.00	2.02	-0.8	20.0	PASS	PASS
BFB	1.006	0.100	50.00	48.32	3.4	30.0	PASS	PASS

RAA 8.25.14

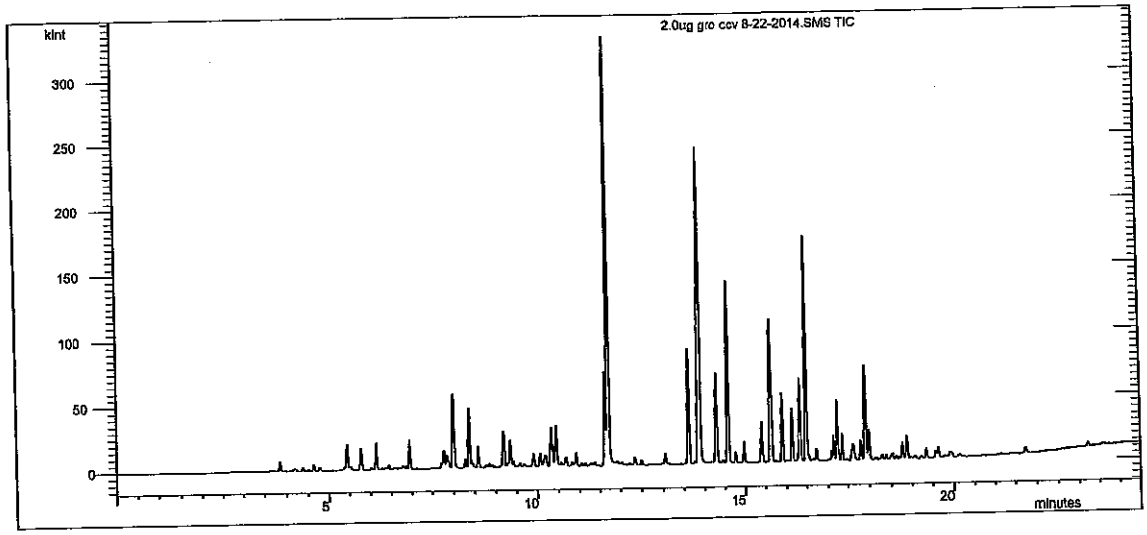
JC 8.26.14

8/25/2014 12:08 Page 1 of 1 2.0ug gro ccv 8-22-2014.sms

Analyst: RAA

8015D MOD GRO

Sample Name:	2.0ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/22/2014 10:25:08 AM
Calculation Date:	8/22/2014 10:55:07 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.304	1195	Identified	44729	50.000
GRO	11.000	903	Identified	5.034E6	2.017
BFB	16.335	1375	Identified	44995	48.322

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Revision Log

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8/22/2014 10:49 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/22/2014 10:55 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/22/2014 Time: 11:21

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 8-22-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC	
Dichlorodifluoromethane	1.696	0.100	100.00	124.33	-24.3	30.0	PASS	PASS	
Chloromethane	0.369	0.100	100.00	80.19	19.8	30.0	PASS	PASS	
Vinyl chloride	1.297	0.100	100.00	96.07	3.9	20.0	PASS	PASS	
Chloroethane	0.208	0.100	100.00	92.98	7.0	30.0	PASS	PASS	
Bromomethane	0.507	0.100	100.00	60.63	39.4	30.0	FAIL	PASS	NMR
Trichlorofluoromethane	0.891	0.100	100.00	107.49	-7.5	30.0	PASS	PASS	
1,1-Dichloroethene	1.309	0.100	100.00	109.14	-9.1	20.0	PASS	PASS	
Acetone	0.483	0.100	200.00	198.42	0.8	40.0	PASS	PASS	
Carbon disulfide	1.132	0.100	200.00	241.33	-20.7	40.0	PASS	PASS	
Iodomethane	0.140	0.100	200.00	71.36	64.3	40.0	FAIL	PASS	NR
Methyl tert-butyl ether (MTBE)	1.305	0.100	200.00	208.07	-4.0	30.0	PASS	PASS	
Isopropyl ether	1.560	0.100	200.00	232.54	-16.3	40.0	PASS	PASS	
tert-Butyl alcohol	0.272	0.100	2000.00	2009.36	-0.5	40.0	PASS	PASS	
trans-1,2-DCE	1.537	0.100	100.00	110.62	-10.6	30.0	PASS	PASS	
tert-Butyl ethyl ether	2.963	0.100	200.00	225.22	-12.6	40.0	PASS	PASS	
1,1-Dichloroethane	1.457	0.100	100.00	101.00	-1.0	30.0	PASS	PASS	
Methylene Chloride	1.516	0.100	100.00	103.39	-3.4	30.0	PASS	PASS	
Vinyl Acetate	2.191	0.100	200.00	244.31	-22.2	40.0	PASS	PASS	
2,2-Dichloropropane	0.884	0.100	100.00	110.39	-10.4	30.0	PASS	PASS	
2-Butanone	0.495	0.100	200.00	183.08	8.5	40.0	PASS	PASS	
1,1,1-Trichloroethane	1.560	0.100	100.00	105.25	-5.2	30.0	PASS	PASS	
tert-Amyl methyl ether	1.395	0.100	200.00	203.45	-1.7	40.0	PASS	PASS	
1,1-Dichloropropene	0.702	0.100	100.00	105.67	-5.7	30.0	PASS	PASS	
Carbon Tetrachloride	3.232	0.100	100.00	104.97	-5.0	30.0	PASS	PASS	
cis-1,2-DCE	2.071	0.100	100.00	107.39	-7.4	30.0	PASS	PASS	
Benzene	1.984	0.100	100.00	109.93	-9.9	30.0	PASS	PASS	
Chloroform	1.437	0.100	100.00	116.34	-16.3	20.0	PASS	PASS	
Bromochloromethane	0.518	0.100	100.00	118.83	-18.8	30.0	PASS	PASS	
Trichloroethene (TCE)	1.355	0.100	100.00	112.46	-12.5	30.0	PASS	PASS	
Dibromofluoromethane	1.546	0.100	50.00	44.98	10.0	30.0	PASS	PASS	
1,2-Dichloroethane-d4	4.480	0.100	50.00	48.95	2.1	30.0	PASS	PASS	
1,2-Dichloroethane (EDC)	1.776	0.100	100.00	107.76	-7.8	30.0	PASS	PASS	
1,2-Dichloropropane	1.957	0.100	100.00	106.93	-6.9	20.0	PASS	PASS	
4-Methyl-2-pentanone	2.051	0.100	200.00	218.51	-9.3	40.0	PASS	PASS	
Toluene-d8	1.749	0.100	50.00	44.80	10.4	30.0	PASS	PASS	

8/25.14

8-26-14

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.647	0.100	100.00	100.38	-0.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.698	0.100	200.00	138.65	30.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.233	0.100	100.00	97.88	2.1	30.0	PASS	PASS
cis-1,3-dichloropropene	1.983	0.100	100.00	95.61	4.4	30.0	PASS	PASS
2-Hexanone	0.923	0.100	200.00	202.64	-1.3	40.0	PASS	PASS
Bromodichloromethane	2.486	0.100	100.00	98.79	1.2	30.0	PASS	PASS
Dibromomethane	1.083	0.100	100.00	93.29	6.7	30.0	PASS	PASS
1,3-Dichloropropane	1.365	0.100	100.00	93.40	6.6	30.0	PASS	PASS
trans-1,3-dichloropropene	0.741	0.100	100.00	94.81	5.2	30.0	PASS	PASS
Ethylbenzene	2.862	0.100	100.00	97.30	2.7	20.0	PASS	PASS
mp-Xylenes	2.663	0.100	200.00	197.64	1.2	30.0	PASS	PASS
1,1,2-Trichloroethane	1.642	0.100	100.00	93.94	6.1	30.0	PASS	PASS
Chlorobenzene	1.211	0.300	100.00	93.34	6.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.394	0.100	100.00	98.85	1.1	30.0	PASS	PASS
o-Xylene	2.654	0.100	100.00	99.66	0.3	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.195	0.100	100.00	95.63	4.4	30.0	PASS	PASS
Dibromochloromethane	1.251	0.100	100.00	96.37	3.6	30.0	PASS	PASS
Isopropylbenzene	2.466	0.100	100.00	94.59	5.4	30.0	PASS	PASS
Styrene	1.200	0.100	100.00	94.70	5.3	30.0	PASS	PASS
n-Propylbenzene	6.021	0.100	100.00	98.19	1.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.423	0.100	100.00	99.94	0.1	30.0	PASS	PASS
tert-Butylbenzene	4.546	0.100	100.00	93.10	6.9	30.0	PASS	PASS
2-Chlorotoluene	1.460	0.100	100.00	93.52	6.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.761	0.100	50.00	43.20	13.6	30.0	PASS	PASS
sec-Butylbenzene	2.756	0.100	100.00	80.81	19.2	30.0	PASS	PASS
4-Chlorotoluene	1.555	0.100	100.00	95.59	4.4	30.0	PASS	PASS
Bromobenzene	1.335	0.100	100.00	98.69	1.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.580	0.100	100.00	97.83	2.2	30.0	PASS	PASS
4-Isopropyltoluene	4.645	0.100	100.00	95.12	4.9	30.0	PASS	PASS
Bromoform	1.528	0.100	100.00	88.87	11.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.184	0.100	100.00	88.01	12.0	30.0	PASS	PASS
n-Butylbenzene	4.605	0.100	100.00	100.25	-0.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.824	0.300	100.00	99.62	0.4	30.0	PASS	PASS
1,3-Dichlorobenzene	2.018	0.100	100.00	96.33	3.7	30.0	PASS	PASS
1,4-Dichlorobenzene	1.962	0.100	100.00	96.79	3.2	30.0	PASS	PASS
1,2-Dichlorobenzene	1.934	0.100	100.00	95.34	4.7	30.0	PASS	PASS
Hexachlorobutadiene	4.434	0.100	100.00	91.28	8.7	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.709	0.100	100.00	91.14	8.9	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.596	0.100	100.00	100.93	-0.9	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.584	0.100	100.00	99.50	0.5	30.0	PASS	PASS
Naphthalene	2.931	0.100	100.00	95.01	5.0	30.0	PASS	PASS
2-Methylnaphthalene	2.275	0.100	100.00	100.66	-0.7	40.0	PASS	PASS
1-Methylnaphthalene	2.110	0.100	100.00	96.50	3.5	40.0	PASS	PASS

8-25-14

8-26-14

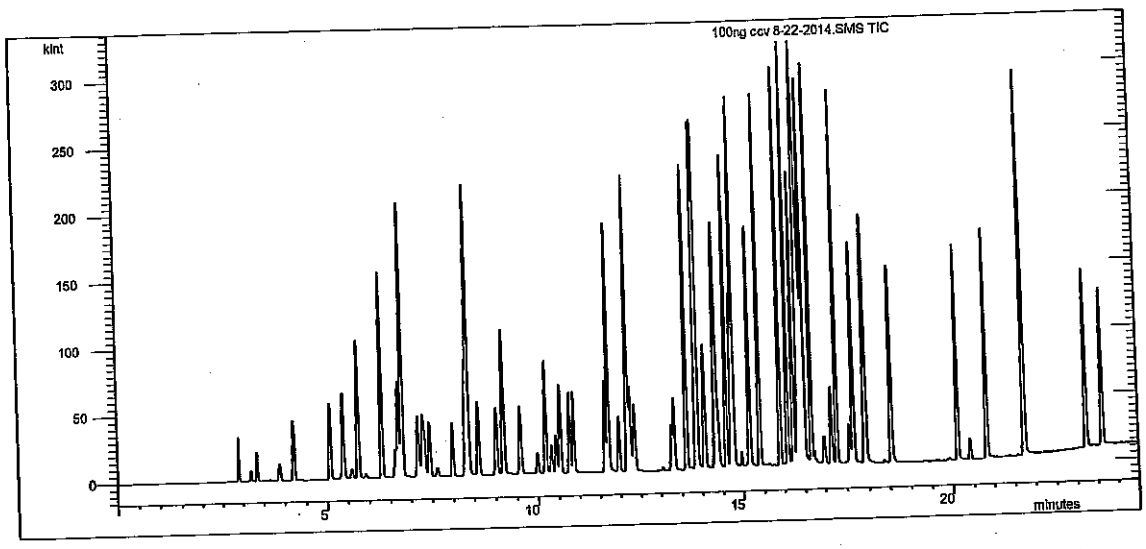
Analyst: cadg

8260B/624 Report

Sample Name: 100ng ccv **Operator Name:** Rene Aguilera **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** V-54-0466 **Acquisition Date:** 8/22/2014 11:21:17 AM

Calculation Date: 8/22/2014 11:45:47 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.990	634	Identified	28861	50.000
Benzene-d5-, chloro-	14.304	1193	Identified	45322	50.000
1,4-Dichlorobenzene-d4	17.908	1515	Identified	24932	50.000
Dichlorodifluoromethane	2.898	184	Identified	97923	124.327
Chloromethane	3.196	210	Identified	21309	80.191
Vinyl chloride	3.344	224	Identified	74839	96.072
Chloroethane	3.877	271	Identified	11991	92.976
Bromomethane	3.896	273	Identified	29259	60.630
Trichlorofluoromethane	4.217	301	Identified	51457	107.486
1,1-Dichloroethene	5.078	377	Identified	75577	109.141
Acetone	5.355	402	Identified	55792	198.419
Carbon disulfide	5.392	405	Identified	130723	241.333
Iodomethane	5.594	423	Identified	16144	71.362
Methyl tert-butyl ether (MTBE)	5.744	436	Identified	150614	208.073
Isopropyl ether	6.305	485	Identified	180053	232.536
tert-Butyl alcohol	6.632	514	Identified	314568	2009.359
trans-1,2-DCE	6.707	521	Identified	88713	110.623
tert-Butyl ethyl ether	6.793	529	Identified	342068	225.218
1,1-Dichloroethane	7.166	562	Identified	84089	100.996
Methylene Chloride	7.283	572	Identified	87521	103.392
Vinyl Acetate	7.341	577	Identified	252955	244.309
2,2-Dichloropropane	7.447	586	Identified	51040	110.386
2-Butanone	7.630	603	Identified	57183	183.084
1,1,1-Trichloroethane	8.305	662	Identified	90059	105.247

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.363	667	Identified	161068	203.446
1,1-Dichloropropene	8.378	668	Identified	40504	105.672
Carbon Tetrachloride	8.606	689	Identified	186560	104.971
cis-1,2-DCE	9.024	726	Identified	119545	107.392
Benzene	9.187	740	Identified	114548	109.930
Chloroform	9.581	775	Identified	82963	116.340
Bromochloromethane	9.995	811	Identified	29906	118.833
Trichloroethene (TCE)	10.185	828	Identified	78208	112.462
Dibromofluoromethane	10.324	841	Identified	44633	44.980
1,2-Dichloroethane-d4	10.441	851	Identified	129308	48.949
1,2-Dichloroethane (EDC)	10.534	859	Identified	102526	107.756
1,2-Dichloropropane	10.762	880	Identified	112982	106.934
4-Methyl-2-pentanone	10.859	888	Identified	236833	218.507
Toluene-d8	11.628	956	Identified	79252	44.805
Toluene	11.709	964	Identified	239945	100.375
2-Chloroethyl vinyl ether	11.968	987	Identified	126517	138.651
Tetrachloroethene (PCE)	12.172	1005	Identified	111798	97.878
cis-1,3-dichloropropene	12.178	1005	Identified	179788	95.608
2-Hexanone	12.179	1005	Identified	167307	202.645
Bromodichloromethane	12.247	1011	Identified	225322	98.787
Dibromomethane	12.351	1020	Identified	98139	93.292
1,3-Dichloropropane	13.250	1100	Identified	123715	93.405
trans-1,3-dichloropropene	13.312	1105	Identified	67169	94.809
Ethylbenzene	13.609	1132	Identified	259396	97.302
mp-Xylenes	13.861	1154	Identified	482709	197.644
1,1,2-Trichloroethane	14.063	1172	Identified	148821	93.939
Chlorobenzene	14.328	1195	Identified	109729	93.340
1,2-Dibromoethane (EDB)	14.384	1200	Identified	126397	98.855
o-Xylene	14.577	1218	Identified	240545	99.659
1,1,1,2-Tetrachloroethane	14.706	1229	Identified	199004	95.629
Dibromochloromethane	14.736	1232	Identified	113367	96.369
Isopropylbenzene	14.768	1234	Identified	223516	94.588
Styrene	15.161	1270	Identified	108814	94.698
n-Propylbenzene	15.403	1291	Identified	300226	98.188
1,3,5-Trimethylbenzene	15.895	1335	Identified	220548	99.936
tert-Butylbenzene	16.090	1352	Identified	226673	93.101
2-Chlorotoluene	16.238	1365	Identified	72820	93.515
4-Bromofluorobenzene	16.335	1374	Identified	43896	43.199
sec-Butylbenzene	16.365	1377	Identified	137407	80.808
4-Chlorotoluene	16.401	1380	Identified	77549	95.592
Bromobenzene	16.441	1383	Identified	66555	98.692
1,2,4-Trimethylbenzene	16.493	1388	Identified	228363	97.832
4-Isopropyltoluene	16.654	1402	Identified	231620	95.122
Bromoform	16.985	1432	Identified	76180	88.868
1,2,3-Trichloropropane	17.155	1448	Identified	59017	88.008
n-Butylbenzene	17.282	1459	Identified	229641	100.253
1,1,2,2-Tetrachloroethane	17.577	1485	Identified	90960	99.624
1,3-Dichlorobenzene	17.662	1493	Identified	100609	96.328
1,4-Dichlorobenzene	17.933	1517	Identified	97840	96.788
1,2-Dichlorobenzene	18.540	1571	Identified	96435	95.338

Operator: Rene Aguilera

Inj. Notes: V-54-0466

100ng ccv 8-22-2014.SMS
8/22/2014 11:46

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.123	1711	Identified	221078	91.280
1,2-Dibromo-3-chloropropane	20.412	1737	Identified	35357	91.135
1,2,4-Trichlorobenzene	20.822	1773	Identified	79577	100.935
1,2,3-Trichlorobenzene	21.726	1854	Identified	78971	99.500
Naphthalene	21.732	1854	Identified	146130	95.015
2-Methylnaphthalene	23.217	1990	Identified	113439	100.664
1-Methylnaphthalene	23.605	2026	Identified	105198	96.500

****
Revision Log
****

8/22/2014 11:45 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

Fri Aug 01 08:33:12 2014
Mon Aug 04 08:33:28 2014

****

Sample Name	Injection Notes
5mL-rb	below
Notes	All injections contain V-52-0489
rtm	below
Notes	V-18-2064
2.0ng ccv GRO	below
Notes	V-18-2061
2.5ng lcs GRO	below
Notes	V-18-2036
50ng ccv	below
Notes	V-54-0452
100ng lcs	below
Notes	V-11-8059
50ng ccvb	below
Notes	V-54-0454
100ng lcsb	below
Notes	V-11-8059
tt	none
b1	none
50ng ccvc	below
Notes	V-54-0455
50ng ccvc2	below
Notes	V-54-0456
50ng ccvc3	below
Notes	V-54-0457
100ng lcsc	below
Notes	V-11-8059
b2	below
Notes	All injections contain V-52-0492
b3	none
b4	none
b5	none
b6	none time @ 7:00
2ng crv	below
Notes	V-54-0458
5ng crv	below
Notes	V-54-0458
10ng crv	below
Notes	V-54-0458
25ng crv	below
Notes	V-54-0458
50ng crv	below
Notes	V-54-0458
100ng crv	below
Notes	V-54-0458
227.27ng crv	below
Notes	V-54-0458
500ng crv	below
Notes	V-54-0458
b7	none
b8	none
100ng icv	below
Notes	V-54-0446
b9	none

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By: KSH 8/4/14
QA'd By: 8-4-14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

ate and update a new RecalcList: c:\varianws\080114v.rcl.

Instrument: V61 Date: 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pql: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cc-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pql: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : [illegible] and [illegible]

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VQL: 22.7-27.5
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

KSH
8/4/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JA 8.4.14

Internal Standard And RT Summary

8/4/2014 9:03
Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15	100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16	227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17	500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18	b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19	b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20	100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21	b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

JH 8.4.14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8.4.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

IAR 9.4.14 KSH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KSH 8/4/14

JAB 8.4.14

8/4/2014 9:03

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

5 units on different cal.

8-4-14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

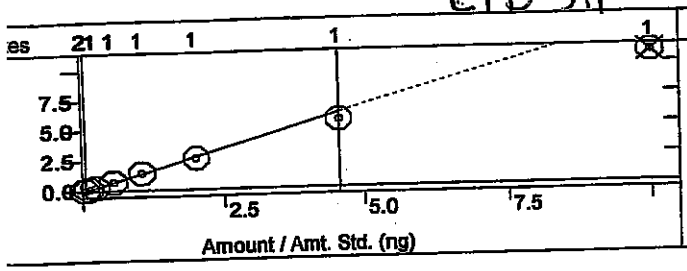
KJH 8/4/14

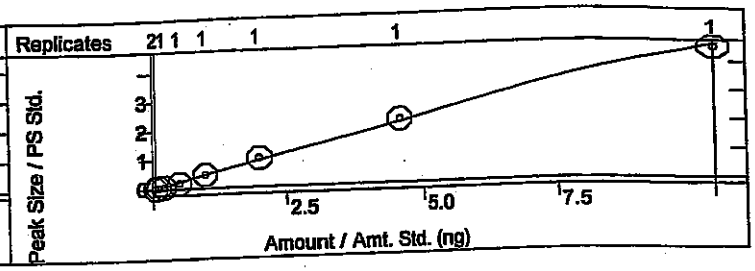
Analyst: KJH

d:	C:\Varian\VWS\Methods\...	Last Calibration:	8/4/2014 8:25 AM
Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

rodifluoromethane
Fit: Linear, Origin: Ignore, Weight: 1/nX2
Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
1.3682x -0.0093

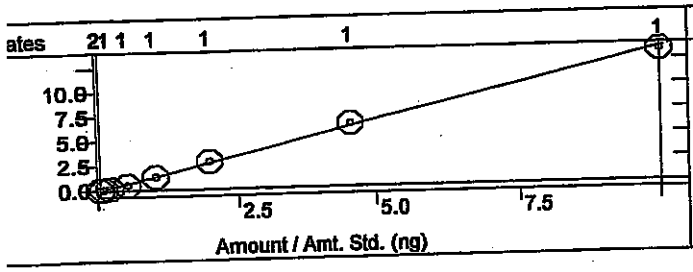
CPD Fit





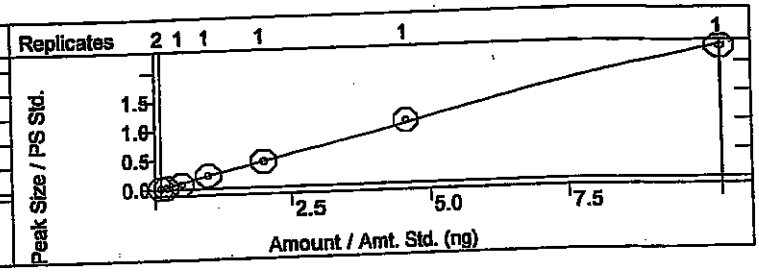
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

l chloride
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
+1.3683x -0.0361

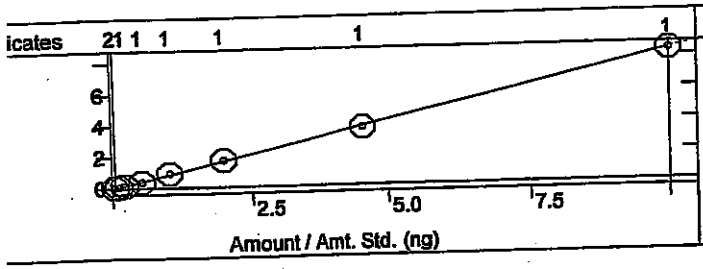


Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

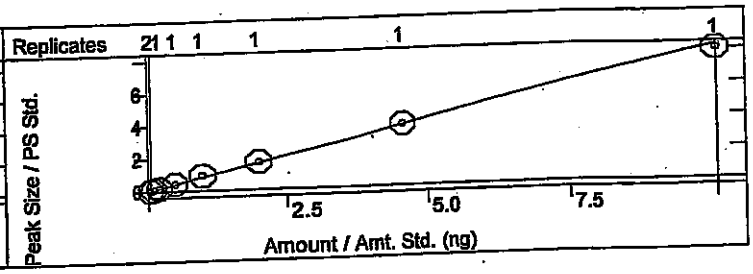
CPD Fit



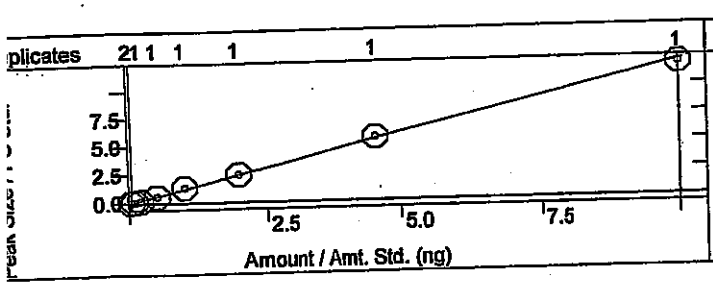
momethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
+0.8387x -0.0032



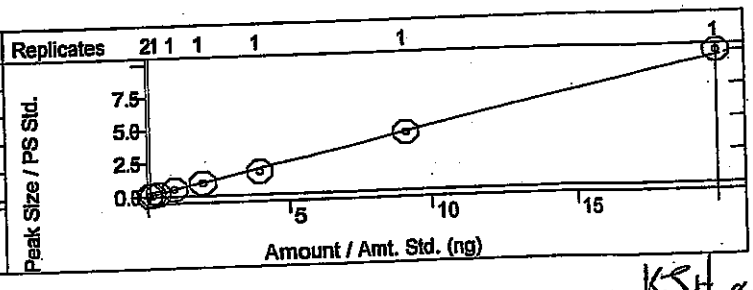
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1-Dichloroethene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
= +1.2107x -0.0242



Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



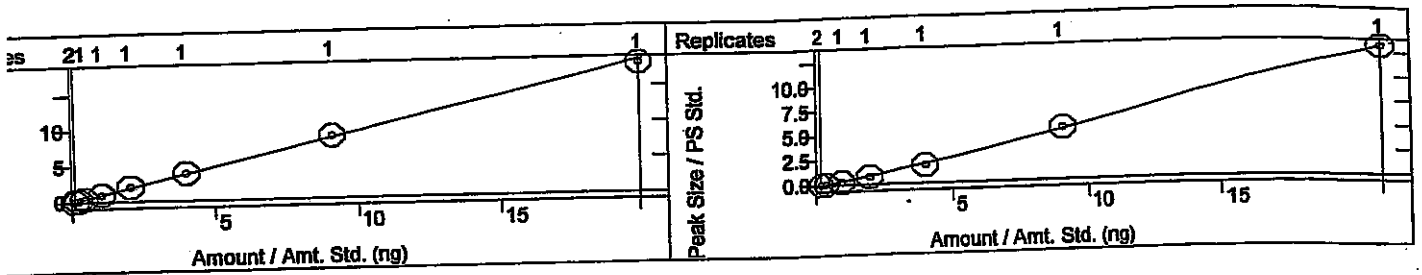
KSH 8/4/14

Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
e List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
nce:	N/A	Detector:	2000 Mass Spec
orkstation (Upgrade)		Workstation Version:	Version 6.9
/leasurement:	Area	Calibration Type:	Internal Standard Analysis

n disulfide
Fit: Linear, Origin: Ignore, Weight: 1/nX
Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
0.9341x +0.0209

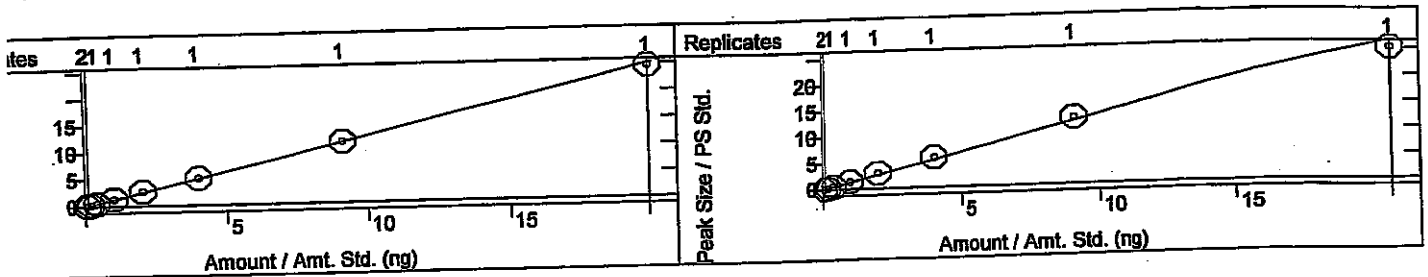
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

CPD 5.4



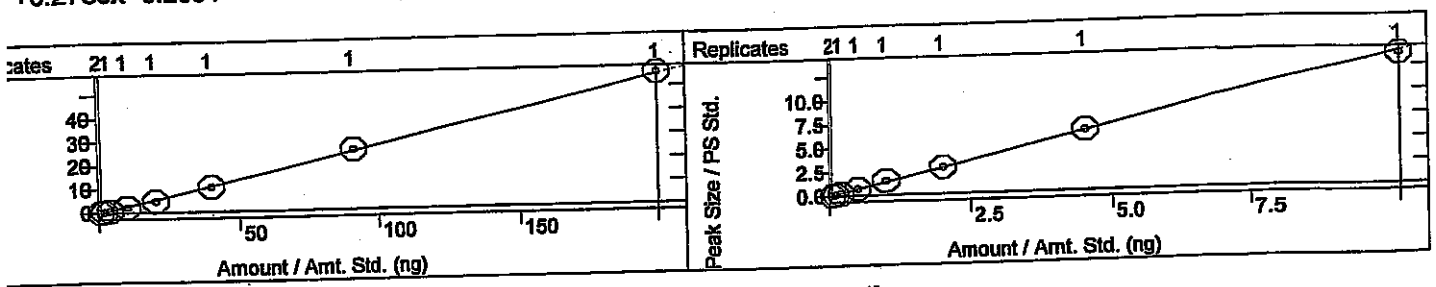
yl tert-butyl ether (MTBE)
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



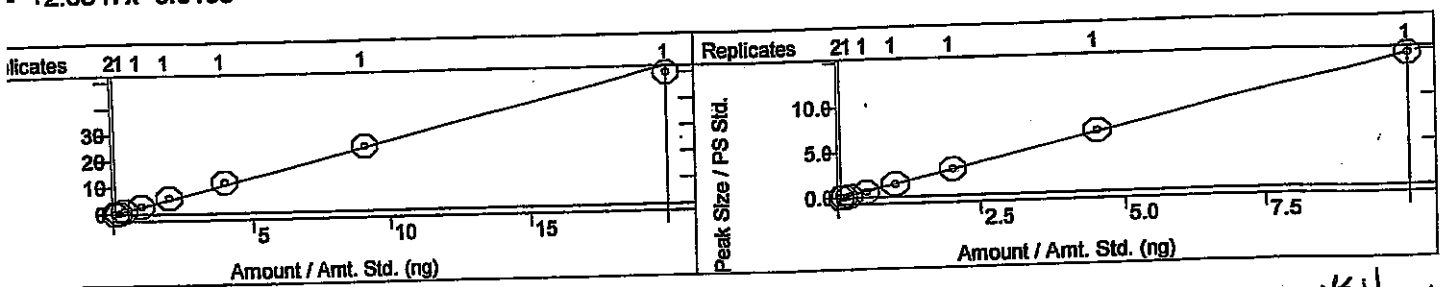
-Butyl alcohol
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
+0.2763x -0.2051

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



t-Butyl ethyl ether
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489

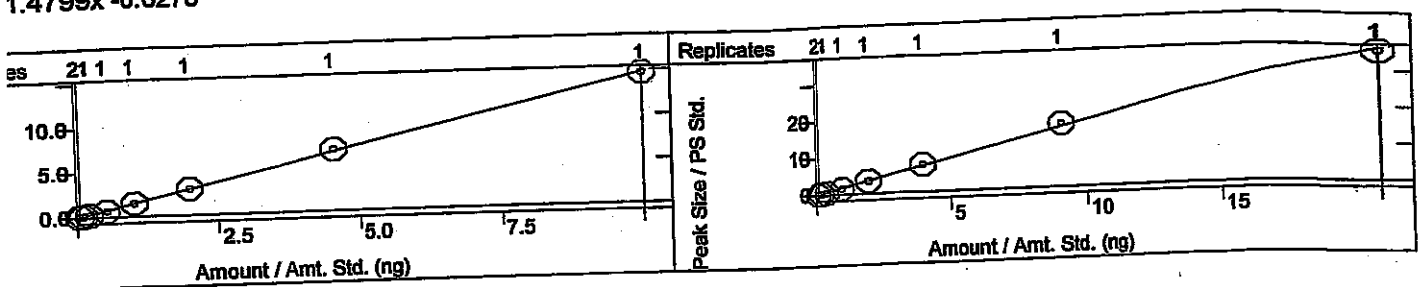


KSH 8/4/14

l:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

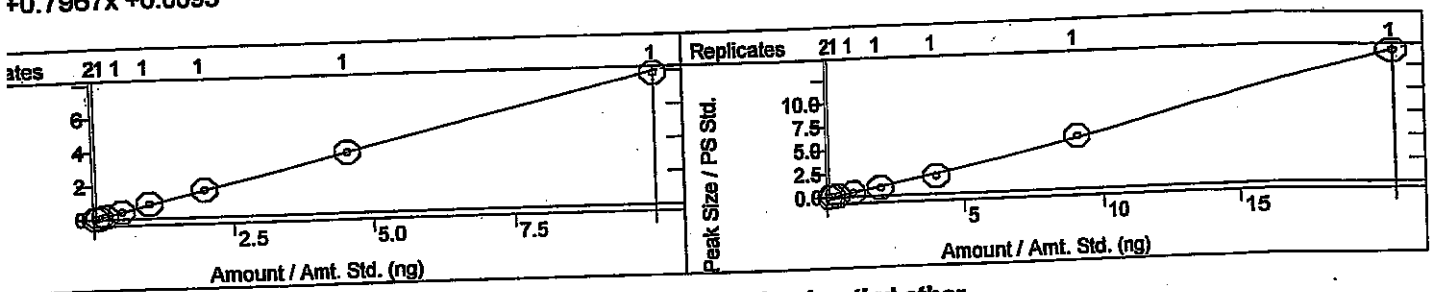
lene Chloride
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
1.4799x -0.0278

Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



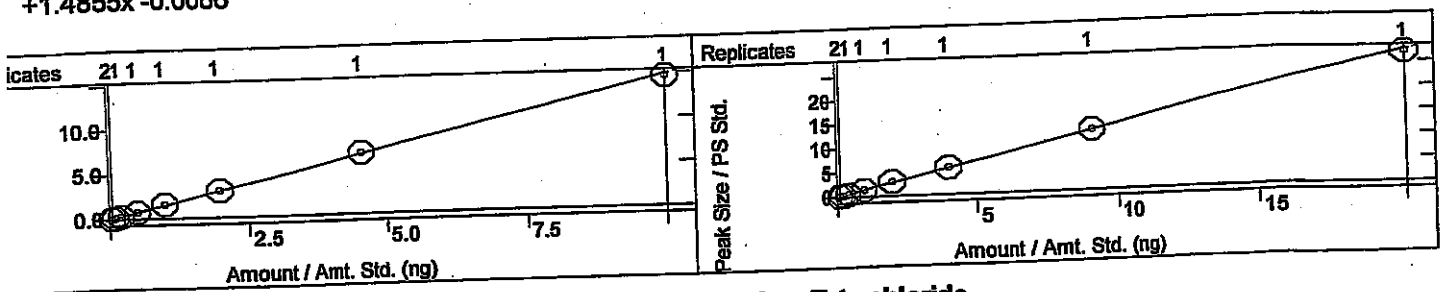
ichloropropane
e Fit: Linear, Origin: Ignore, Weight: 1/X
). Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
+0.7967x +0.0095

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



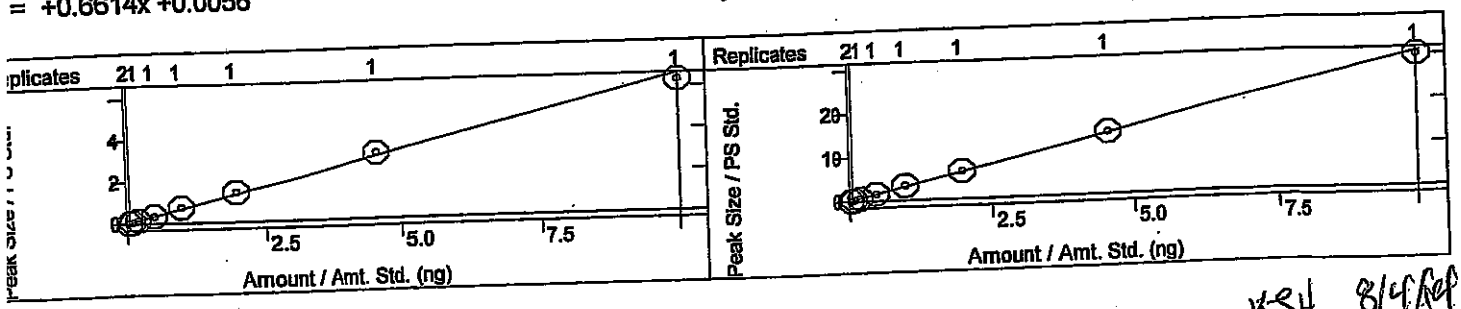
1-Trichloroethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
+1.4855x -0.0066

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1-Dichloropropene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
= +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065

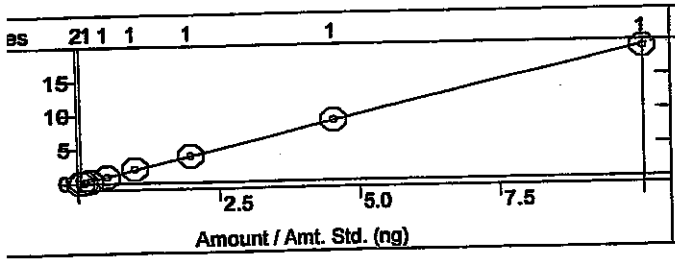


KSH 8/4/14

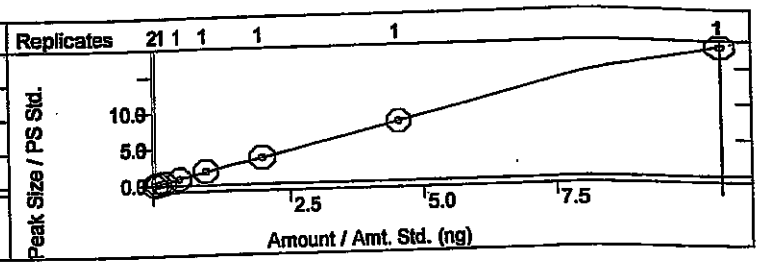
d:	c:\varianws\methods\v8011 4v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

KSH 8/4/14

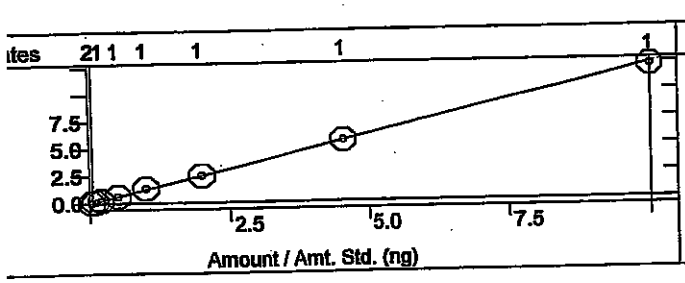
2-DCE
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
1.9390x -0.0226



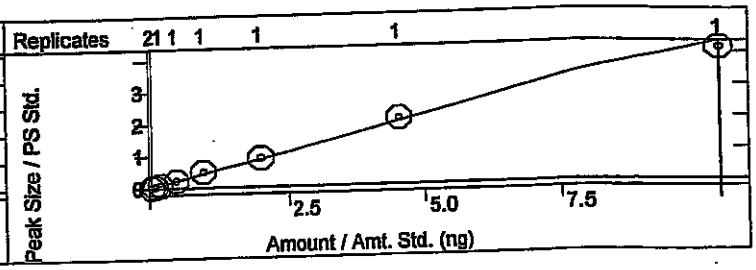
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



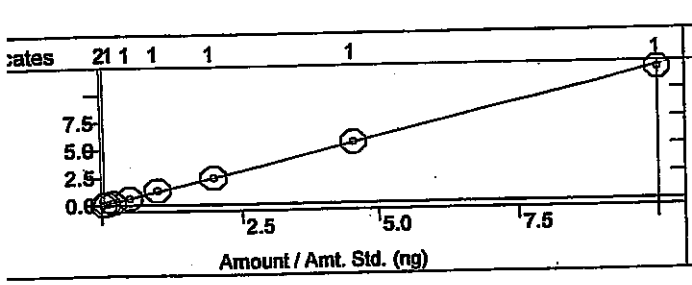
roform
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
+1.2389x -0.0082



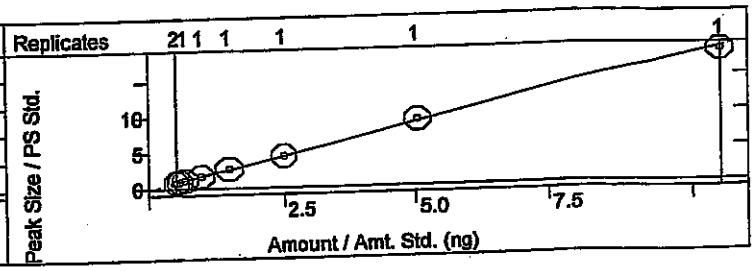
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



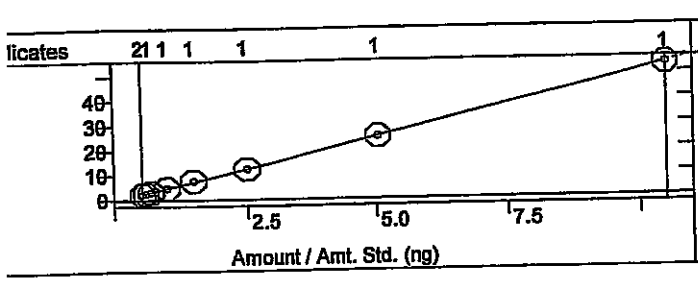
hloroethene (TCE)
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
+1.2032x +0.0034



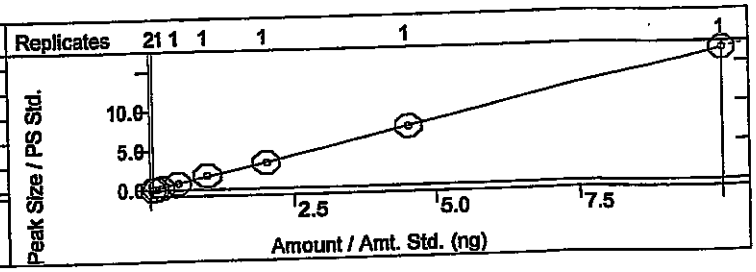
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



-Dichloroethane-d4
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
+5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455

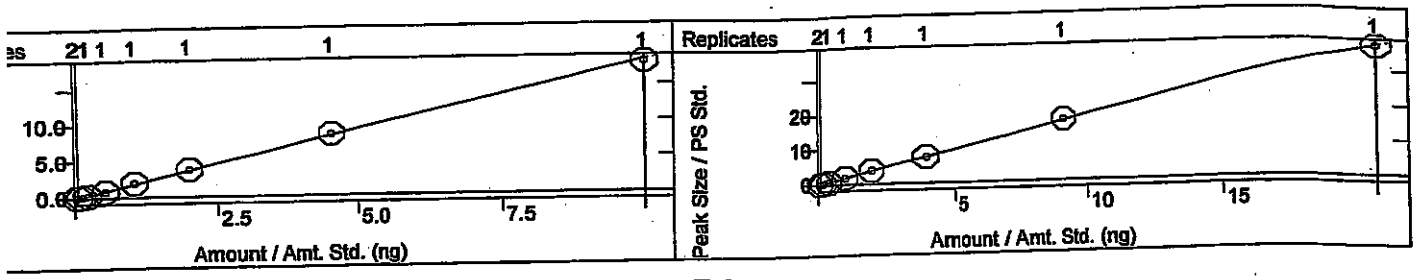


:		Last Calibration:	8/4/2014 8:25 AM
Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

KSH 8/4/14

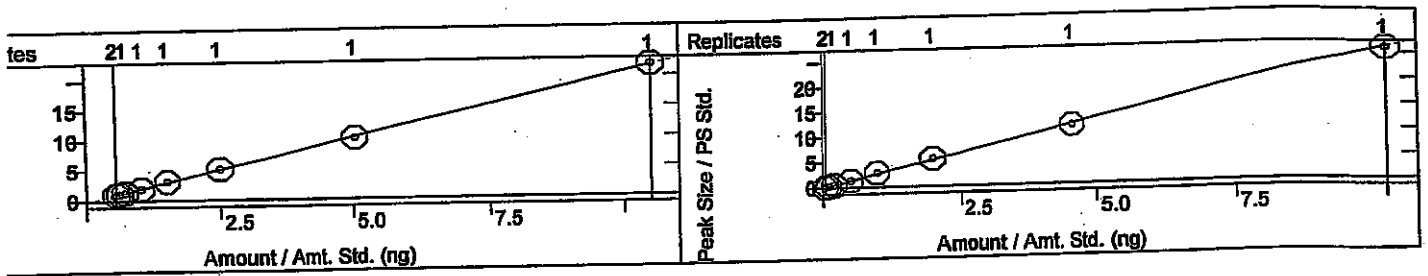
chloropropane
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



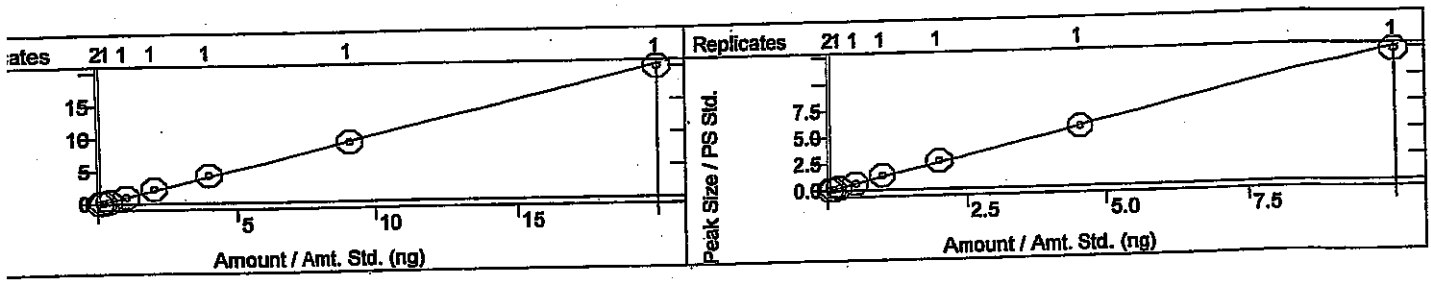
ne-d8
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
-2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



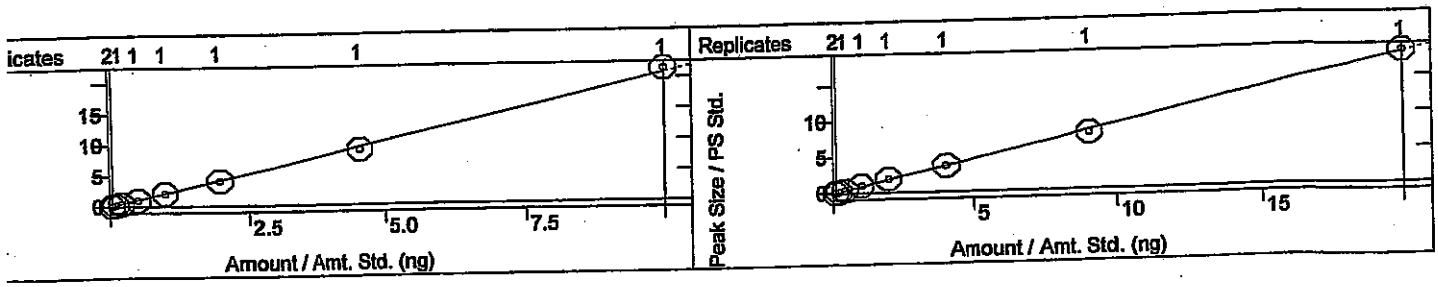
loroethyl vinyl ether
/e Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
+1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



-1,3-dichloropropene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
+2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199

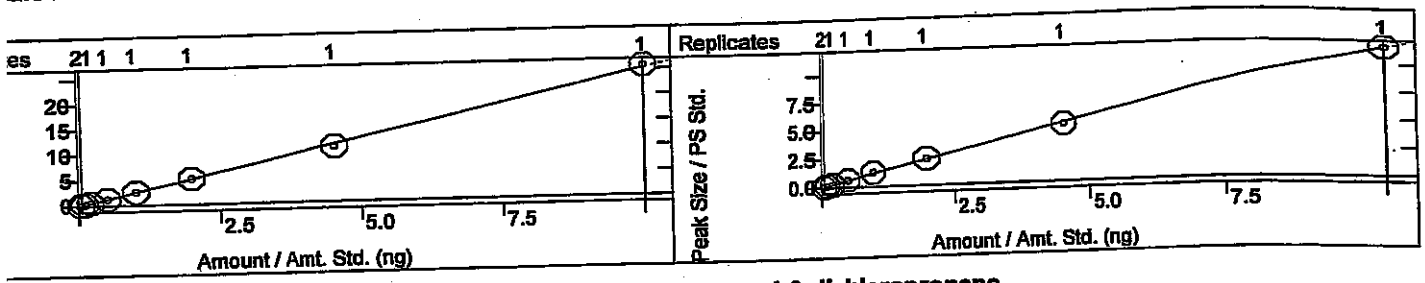


d:	c:\varianws\methods\0801 14v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
: Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

VKS 8/4/14

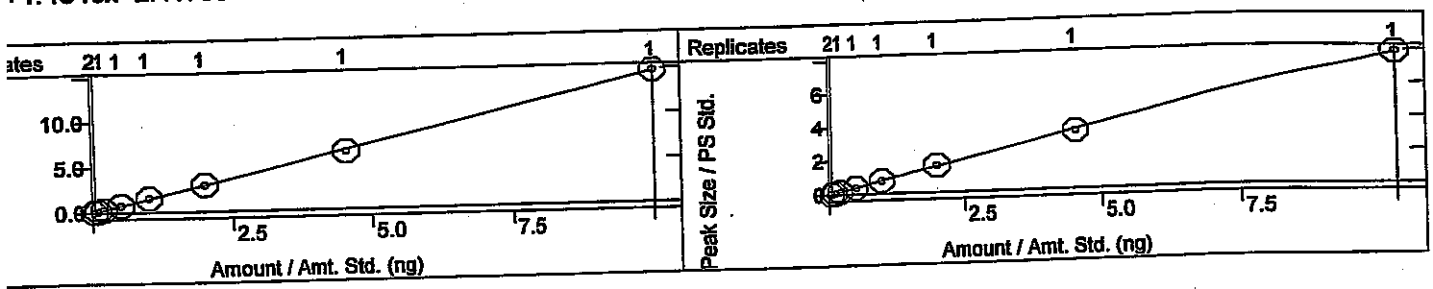
odichloromethane
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



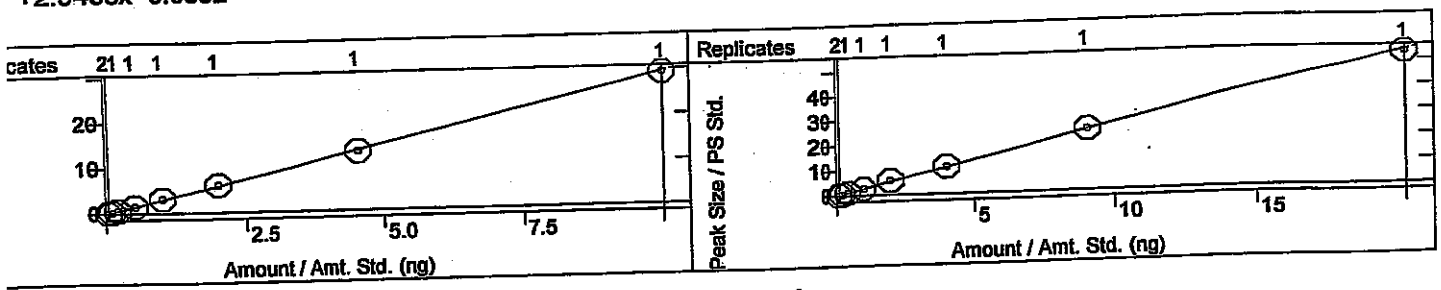
ichloropropane
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
+1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



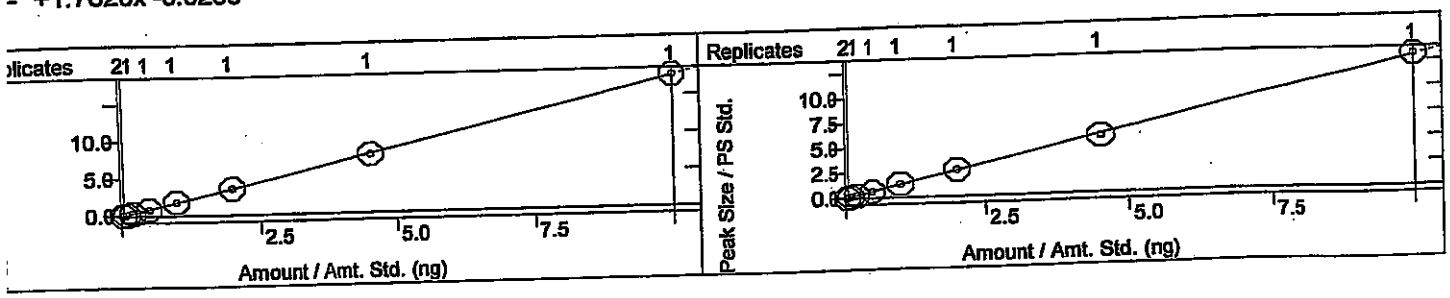
ylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
+2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



l,2-Trichloroethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
= +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051

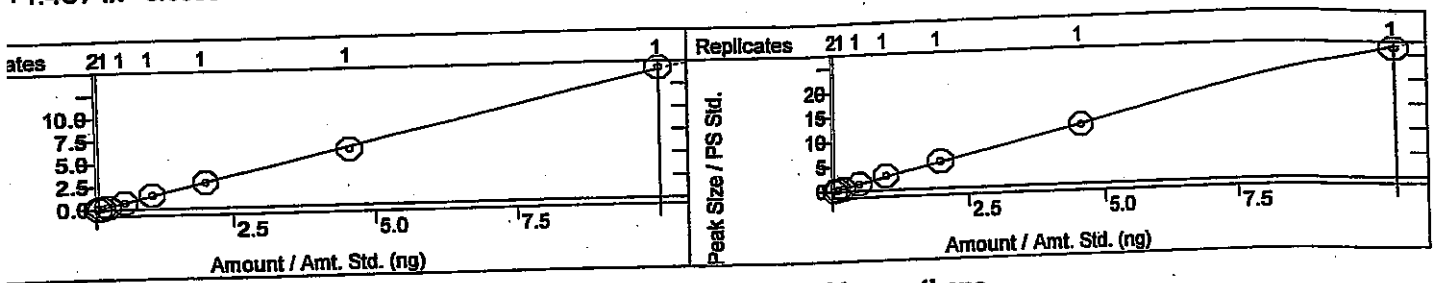


od:	C:\Varian\MSMethods\...\...,02.mth	Last Calibration:	8/4/2014 8:25 AM
lc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ole List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Vorkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

KSH 8/4/14

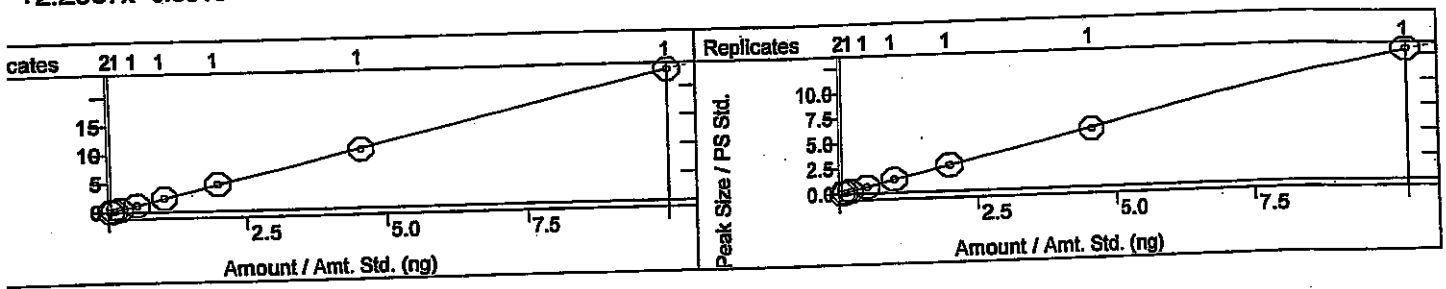
)ibromoethane (EDB)
'e Fit: Linear, Origin: Ignore, Weight: 1/X
). Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
+1.4074x +0.0063

o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



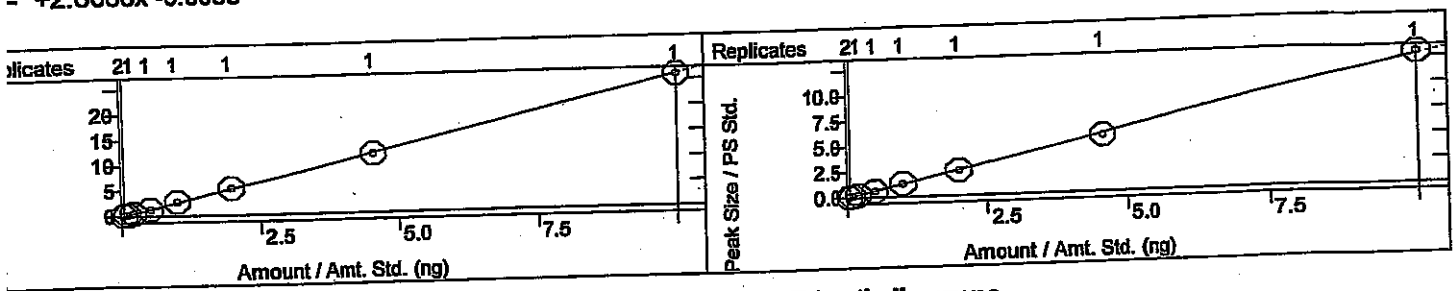
1,2-Tetrachloroethane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
+2.2967x -0.0016

Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



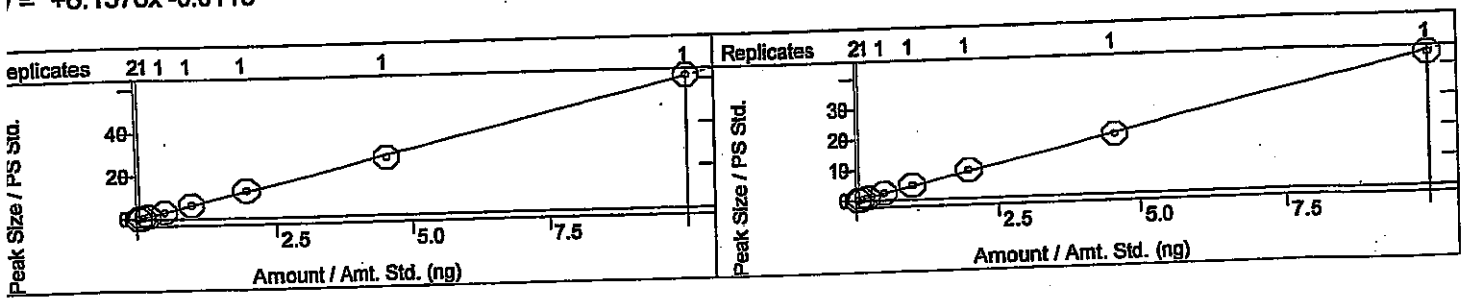
)propylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
= +2.6088x -0.0035

Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
= +6.1376x -0.0110

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

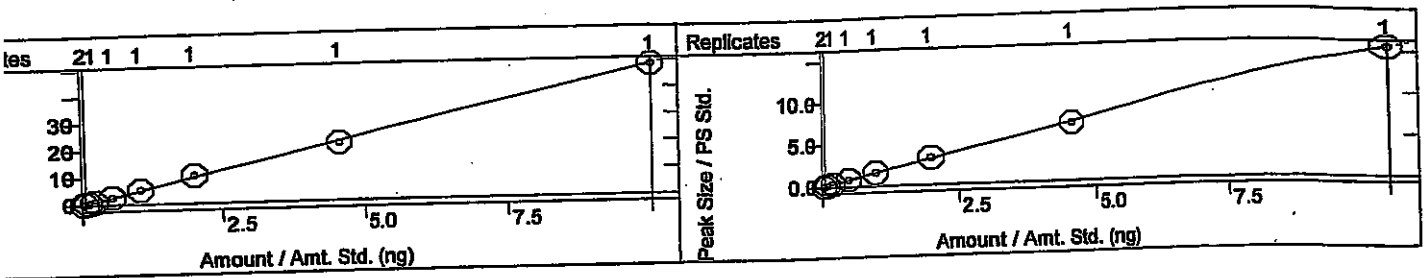


d:	C:\Varianws\methods\8260_624_v8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
: Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
le List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

KSH 8/4/14

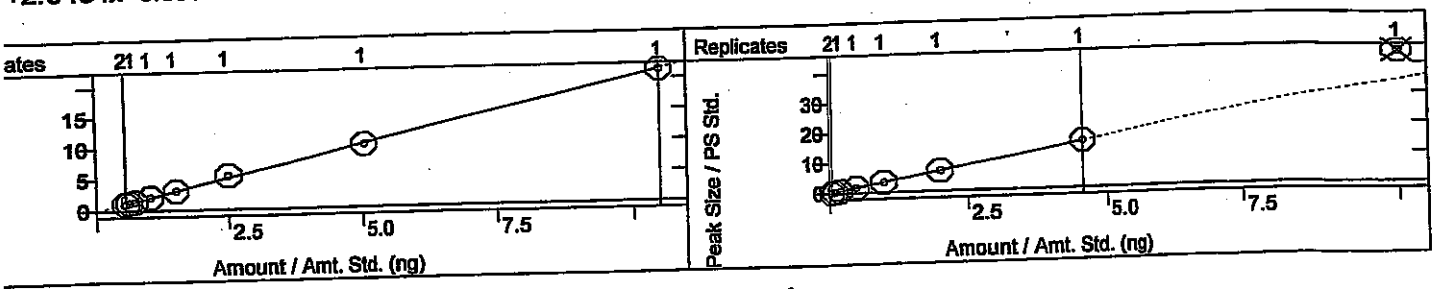
utylbenzene
Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



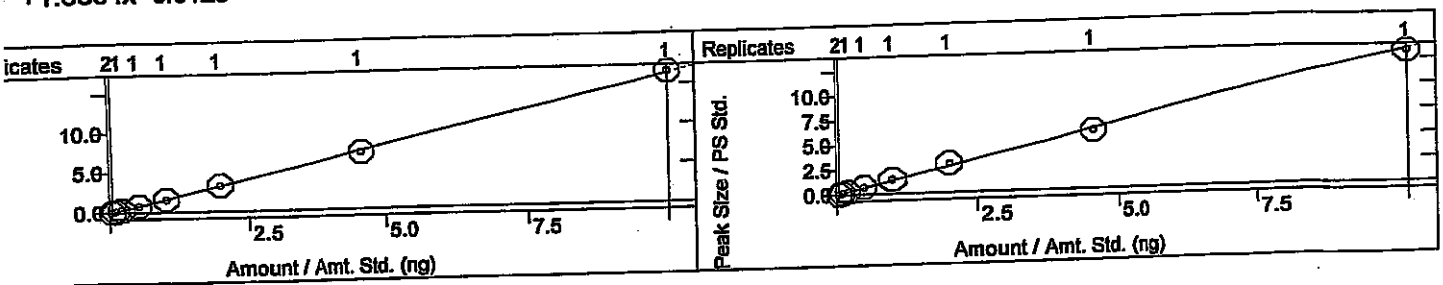
omofluorobenzene
re Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
+2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD Fit



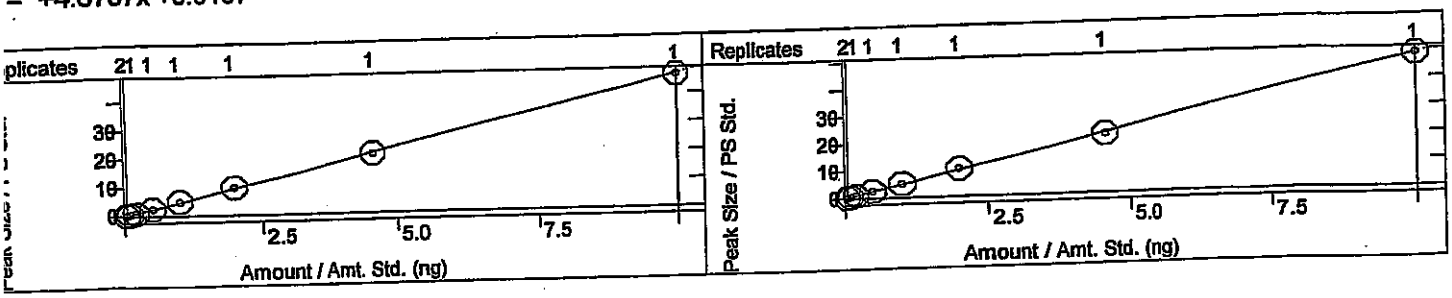
hlorotoluene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
+1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



2,4-Trimethylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
= +4.6757x +0.0107

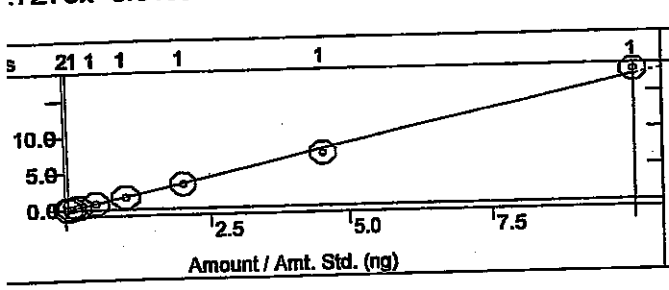
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045



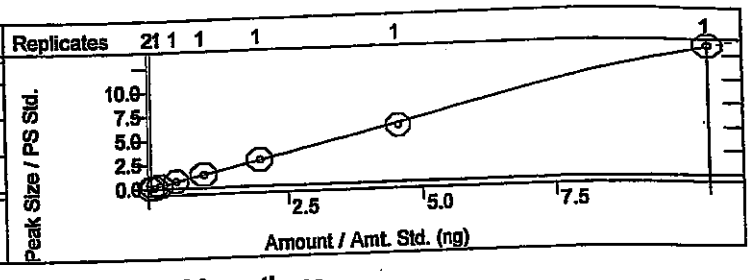
	c:\varianws\methods\0801 14v 0200,024.mth		
Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ce:	N/A	Detector:	2000 Mass Spec
rkstation (Upgrade)		Workstation Version:	Version 6.9
easurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

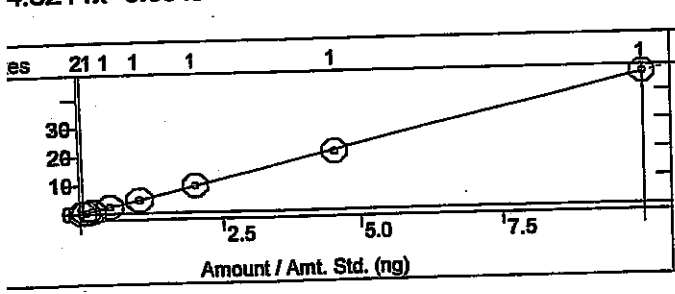
form
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
.7279x -0.0156



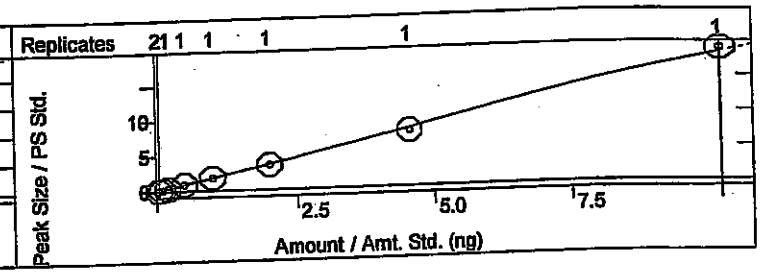
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



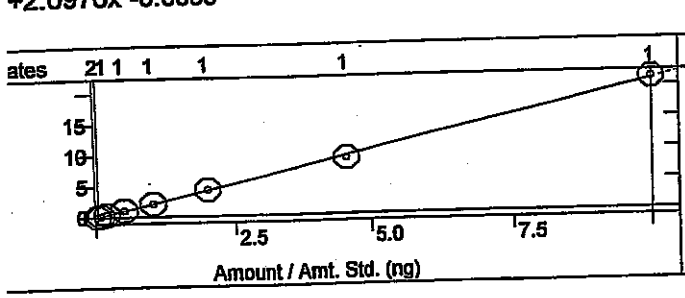
ylbenzene
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
4.6211x -0.0548



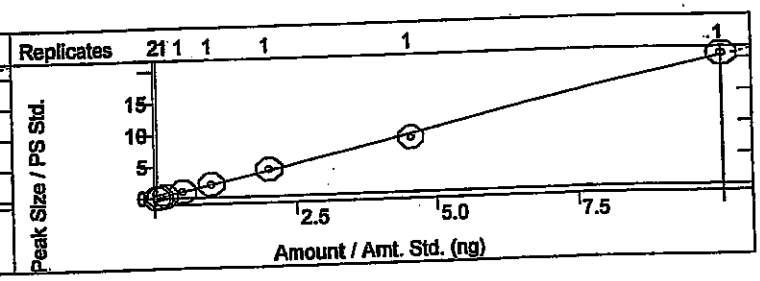
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



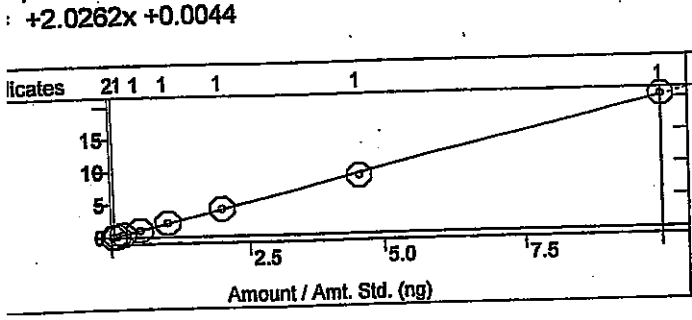
)ichlorobenzene
'e Fit: Linear, Origin: Ignore, Weight: 1/X
). Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
+2.0976x -0.0059



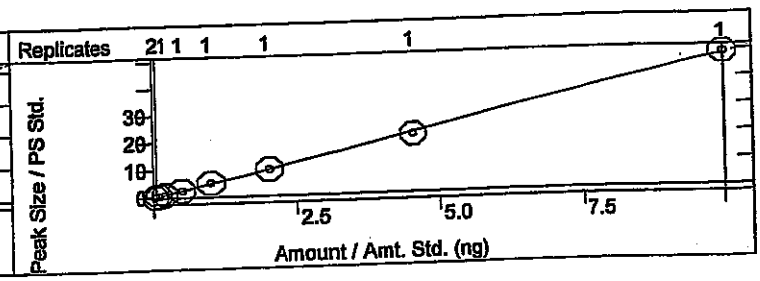
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



-Dichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
: +2.0262x +0.0044



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

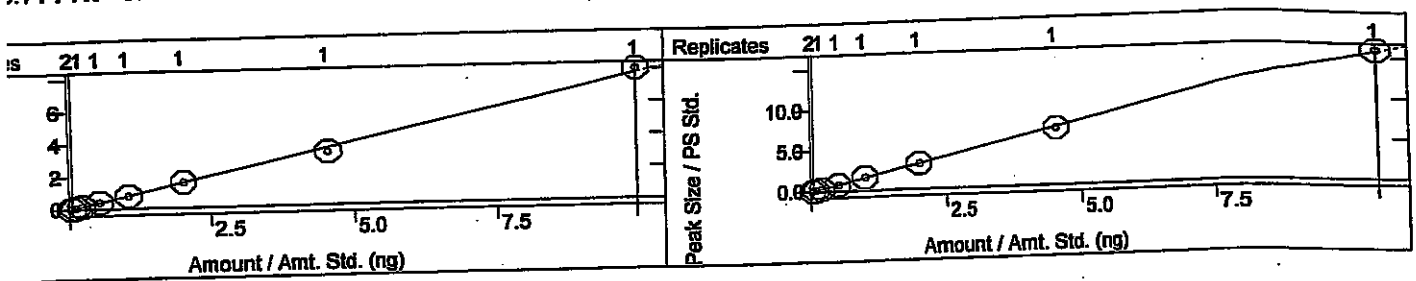


:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
List:	N/A	Detector:	2000 Mass Spec
ice:	N/A	Workstation Version:	Version 6.9
rkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
leasurement:	Area		

KSH 8/14/14

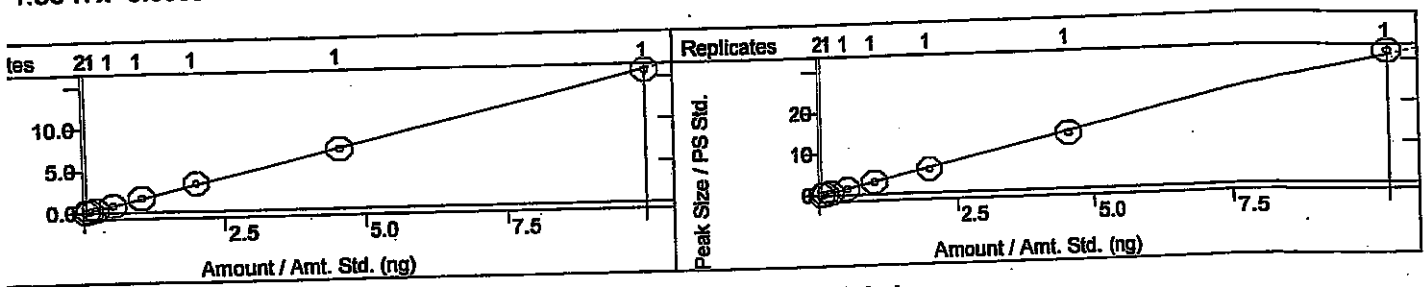
romo-3-chloropropane
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
).7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



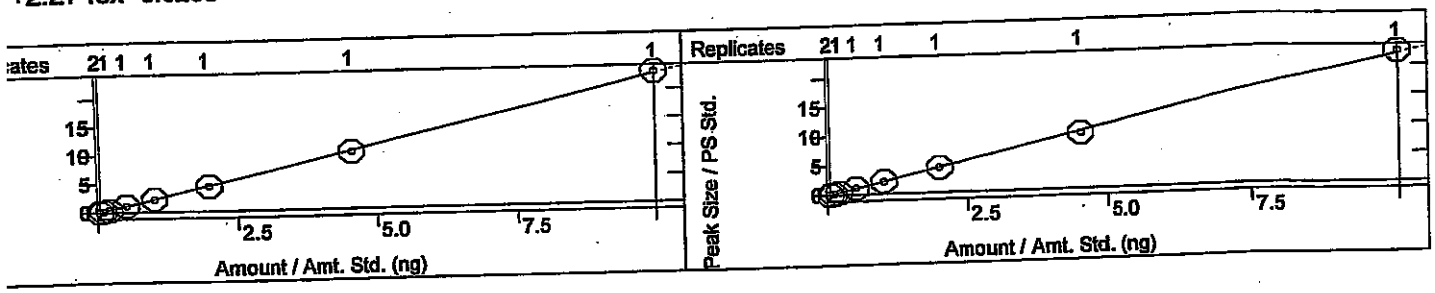
Trichlorobenzene
Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
-1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



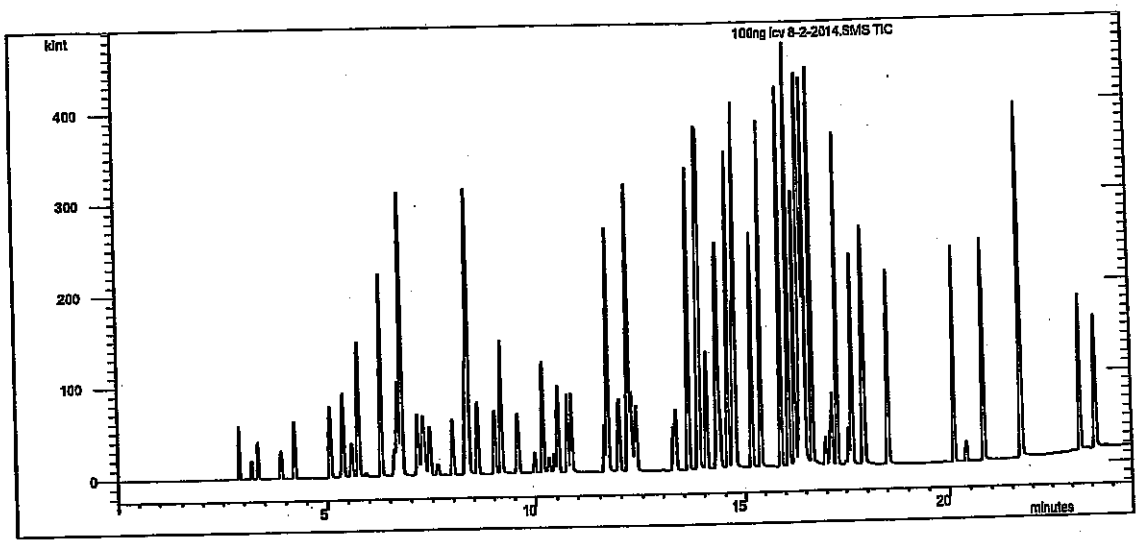
thylnaphthalene
/e Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
+2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Operator: Rene Aguilera Inj. Notes: V-54-0446 100ng icv 8-2-2014.SMS
8/4/2014 8:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

eList: C:\VarianWS\070614v.smp

ed: Sun Jul 06 15:00:06 2014
ied: Sun Jul 06 18:32:58 2014

****

ne	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below @ 8:52
	Notes V-11-8035	
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @ 5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: PA 7-6-14
1st Review By: PA 7-7-14
QA'd By: JNB 7/8/14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] JB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7/7/14

JB JB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract: | SDG No:

Lab Code: | Case No.: | SAS No: | 7/7/2014

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 2:27

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

7-7-14

SB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

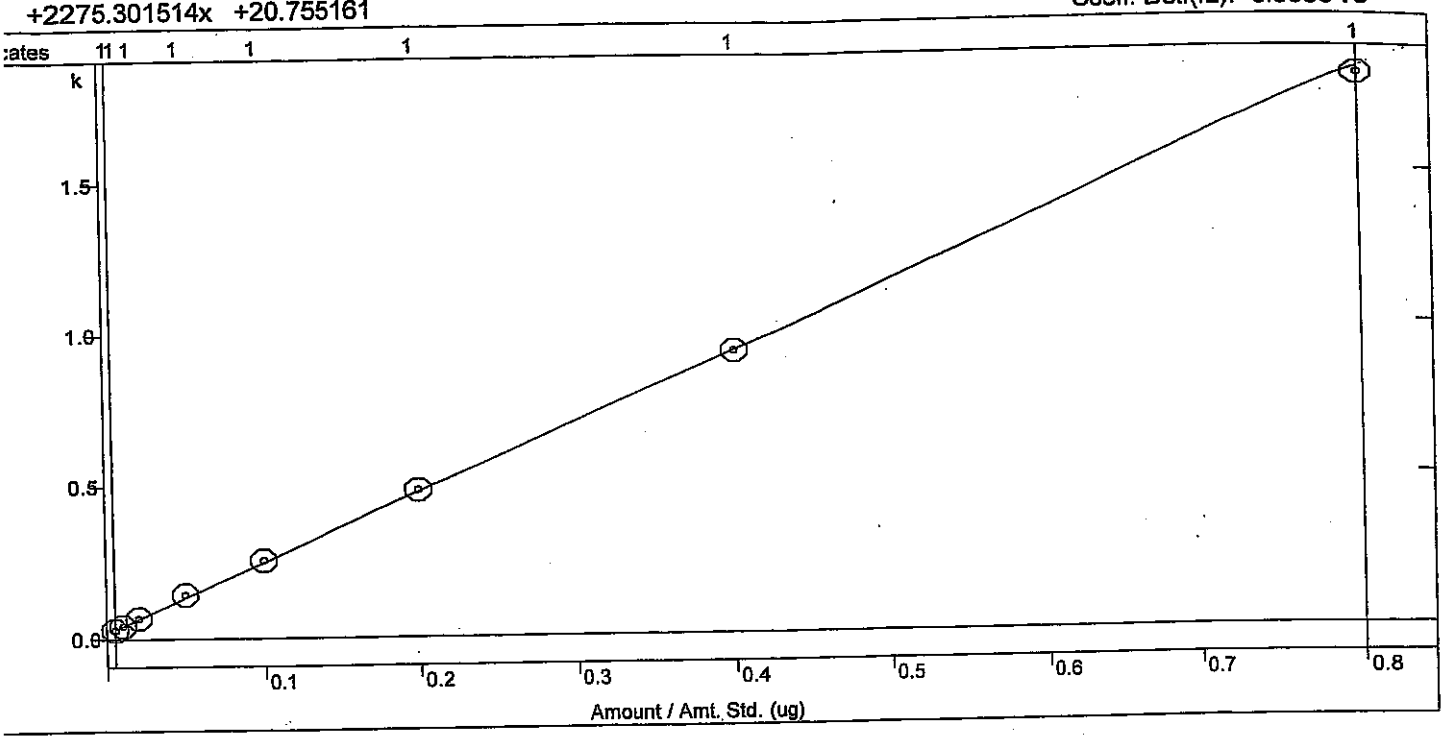
Analyst: RAA

ıod:	c:\varianws\methods\070614v gro.mth		
ılc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ple List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
ıence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
< Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

ve Fit: Linear, Origin: Ignore, Weight: 1/X
+2275.301514x +20.755161

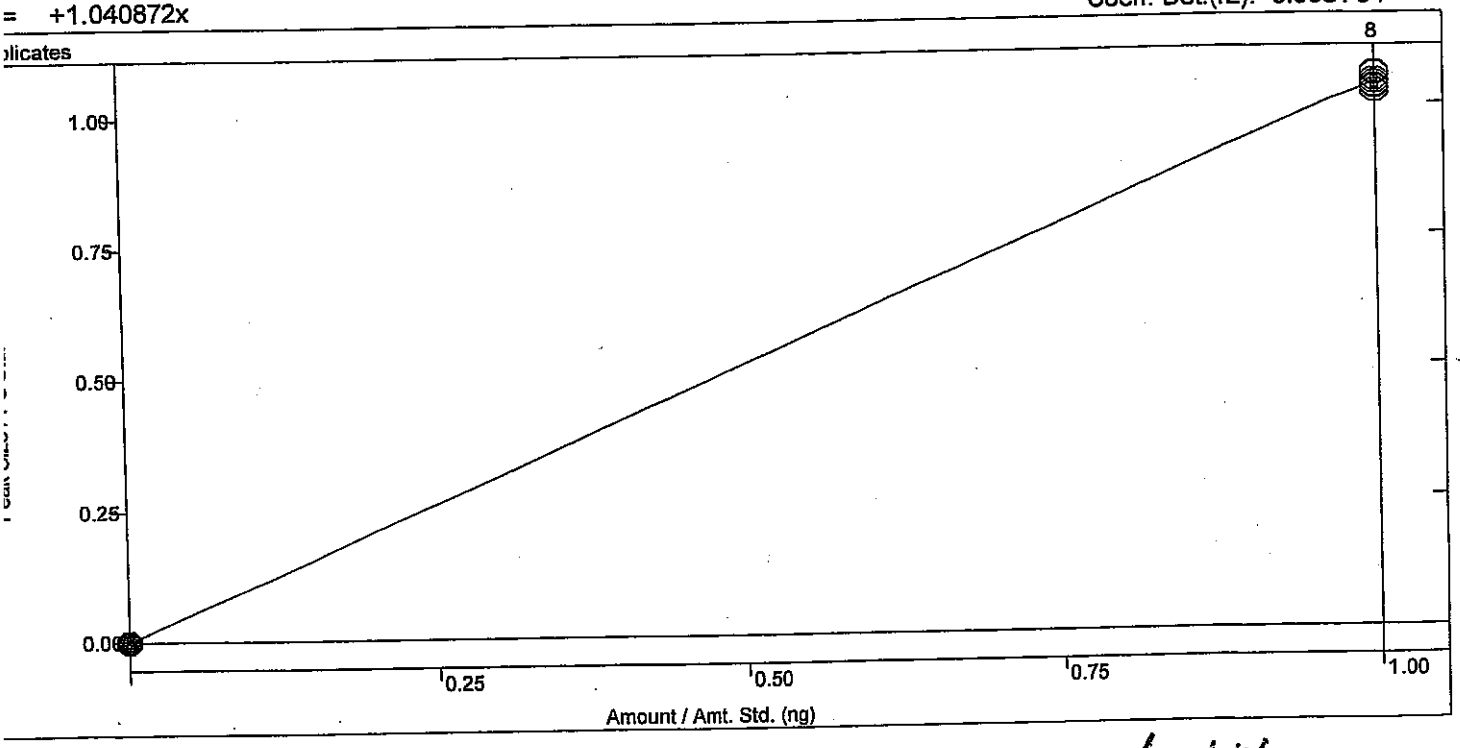
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

ırve Fit: Linear, Origin: Force, Weight: 1/X
= +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JNB 7/8/14

Analytical Report
Lab Order: **1408A76**
Date Reported:

8.25.14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-001
Client Sample ID: FFOR-CF-0048
Collection Date: 08/20/14 3:20:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Aniline	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Anthracene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Benz(a)anthracene	0.20	0.21	J	mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Benzo(a)pyrene	0.16	0.21	J	mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Benzo(b)fluoranthene	0.39	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Benzo(g,h,i)perylene	0.12	0.21	J	mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Bis(2-ethylhexyl)phthalate	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Carbazole	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Chloro-3-methylphenol	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Chloroaniline	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Chrysene	0.23	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Di-n-butyl phthalate	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Dibenzofuran	0.13	0.21	J	mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4-Dimethylphenol	ND	0.31		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4,6-Dinitro-2-methylphenol	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4-Dinitrophenol	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,6-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.23	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Fluorene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Indeno(1,2,3-cd)pyrene	0.13	0.21	J	mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Isophorone	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Methylphenol	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Naphthalene	0.61	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Nitrobenzene	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Phenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Pyrene	0.35	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Pyridine	ND	0.52		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14890	08/22/14 1:15:16 PM
Surr: 2-Fluorophenol	60.0	21-111		%REC	1	14890	08/22/14 1:15:16 PM
Surr: Phenol-d5	70.8	23.1-117		%REC	1	14890	08/22/14 1:15:16 PM
Surr: 2,4,6-Tribromophenol	83.5	22.7-88.9		%REC	1	14890	08/22/14 1:15:16 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	14890	08/22/14 1:15:16 PM
Surr: 2-Fluorobiphenyl	74.8	21.2-129		%REC	1	14890	08/22/14 1:15:16 PM
Surr: 4-Terphenyl-d14	76.7	39.4-107		%REC	1	14890	08/22/14 1:15:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408A76
Project: Kirtland AFB

Lab ID: 1408A76-002 **Collection Date:** 08/20/14 3:31:00 PM
Client Sample ID: FFOR-CF-0049 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Acenaphthylene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Aniline	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Anthracene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Benz(a)anthracene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Benzo(a)pyrene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Benzo(b)fluoranthene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Benzo(g,h,i)perylene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Benzo(k)fluoranthene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Bis(2-chloroethoxy)methane	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Bis(2-chloroethyl)ether	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Bis(2-chloroisopropyl)ether	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Bis(2-ethylhexyl)phthalate	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Bromophenyl phenyl ether	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Butyl benzyl phthalate	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Carbazole	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Chloro-3-methylphenol	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Chloroaniline	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Chloronaphthalene	ND	2.7		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Chlorophenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Chlorophenyl phenyl ether	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Chrysene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Di-n-butyl phthalate	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Di-n-octyl phthalate	ND	4.3		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Dibenz(a,h)anthracene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Dibenzofuran	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
1,2-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
1,3-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
1,4-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
3,3'-Dichlorobenzidine	ND	2.7		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Diethyl phthalate	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Dimethyl phthalate	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4-Dichlorophenol	ND	4.3		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4,6-Dinitro-2-methylphenol	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4-Dinitrophenol	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4-Dinitrotoluene	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,6-Dinitrotoluene	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408A76
Project: Kirtland AFB

Comment: DUE 08/25

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Fluorene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Hexachlorobenzene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Hexachlorobutadiene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Hexachlorocyclopentadiene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Hexachloroethane	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Indeno(1,2,3-cd)pyrene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Isophorone	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Methylnaphthalene	16	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Methylphenol	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
3+4-Methylphenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
N-Nitrosodi-n-propylamine	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
N-Nitrosodimethylamine	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
N-Nitrosodiphenylamine	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Naphthalene	8.9	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Nitroaniline	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
3-Nitroaniline	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Nitroaniline	ND	4.3		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Nitrobenzene	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2-Nitrophenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
4-Nitrophenol	ND	2.7		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Pentachlorophenol	ND	4.3		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Phenanthrene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Phenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Pyrene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Pyridine	ND	5.4		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
1,2,4-Trichlorobenzene	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4,5-Trichlorophenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
2,4,6-Trichlorophenol	ND	2.2		mg/Kg-dry	10	14890	08/22/14 3:38:32 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	10	14890	08/22/14 3:38:32 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	10	14890	08/22/14 3:38:32 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	10	14890	08/22/14 3:38:32 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	10	14890	08/22/14 3:38:32 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	10	14890	08/22/14 3:38:32 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	10	14890	08/22/14 3:38:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408A76
Project: Kirtland AFB

Lab ID: 1408A76-003 **Collection Date:** 08/20/14 3:40:00 PM
Client Sample ID: FFQR-CF-0050 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Aniline	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Anthracene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Benz(a)anthracene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Benzo(a)pyrene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Benzo(b)fluoranthene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Benzo(g,h,i)perylene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Benzo(k)fluoranthene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Bis(2-ethylhexyl)phthalate	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Carbazole	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Chloro-3-methylphenol	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Chloroaniline	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Chloronaphthalene	ND	2.6		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Chrysene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Di-n-butyl phthalate	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Di-n-octyl phthalate	ND	4.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Dibenz(a,h)anthracene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
3,3'-Dichlorobenzidine	ND	2.6		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4-Dichlorophenol	ND	4.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4-Dimethylphenol	ND	3.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4,6-Dinitro-2-methylphenol	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4-Dinitrophenol	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4-Dinitrotoluene	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,6-Dinitrotoluene	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Comment: DUE 08/25

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Fluorene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Indeno(1,2,3-cd)pyrene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Isophorone	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Methylnaphthalene	14	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Methylphenol	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Naphthalene	7.8	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Nitroaniline	ND	4.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Nitrobenzene	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
4-Nitrophenol	ND	2.6		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Pentachlorophenol	ND	4.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Phenanthrene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Phenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Pyrene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Pyridine	ND	5.2		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	10	14890	08/22/14 4:07:26 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	10	14890	08/22/14 4:07:26 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	10	14890	08/22/14 4:07:26 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	10	14890	08/22/14 4:07:26 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	10	14890	08/22/14 4:07:26 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	10	14890	08/22/14 4:07:26 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	10	14890	08/22/14 4:07:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Extraction Method 3540

Reviewed By: dam 8/22/14

PREP BATCH REPORT

SC 8-21

Prep Start Date: **8/21/2014 11:15:30**
Prep End Date:

Time Started: 12:00
Time Ended: 6:00

Prep Batch ID: **14890** Prep Code: **8270SOX_PR** Method No: **3540**
Initial Temp: **°C** Final Temp **°C**

Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14890	SC 8-21	Soil			30	0	0	dam 1	0.033	8/21/2014	SC 8-22-14
LCS-14890		Soil			30	0	0	8/22 1	0.033	8/21/2014	
1408A76-001A	FFOR-CF-0048	MeOH (Soil)			30.30	0	0	1	0.033	8/21/2014	DCM
1408A76-001AMS		MeOH (Soil)			30.30	0	0	1	0.033	8/21/2014	4736
1408A76-001AMSD		MeOH (Soil)			30.30	0	0	1	0.033	8/21/2014	
1408A76-002A	FFOR-CF-0049	MeOH (Soil)			30.29	0	0	1	0.033	8/21/2014	
1408A76-003A	FFOR-CF-0050	MeOH (Soil)			30.29	0	0	1	0.033	8/21/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC 8-21	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 dam 8/22	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 SC 8-21	µL

Varian Star Workstation - 8400 SampleList Fri Aug 22 15:35:58 2014

SampleList: C:\VarianWS\082214.smp

Created: Fri Aug 22 10:39:32 2014
Modified: Fri Aug 22 15:35:49 2014

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	1408a13-010d	1	below	2	1.0
	Notes r5x aq				
4	mb-14890	1	below	3	1.0
	Notes x1 soil				
5	lcs-14890	1	below	4	1.0
	Notes x1 soil				
6	1408a76-001a	1	below	5	1.0
	Notes x1 soil				
7	1408a76-001ams	1	below	6	1.0
	Notes x1 soil				
8	1408a76-001amsd	1	below	7	1.0
	Notes x1 soil				
9	1408a76-002a	1	below	8	1.0
	Notes x1 soil				
10	1408a76-003a	1	below	9	1.0
	Notes x1 soil				
11	1408a76-002a	1	below	21	1.0
	Notes r10x soil				
12	1408a76-003a	1	below	22	1.0
	Notes r10x soil				
13	mb-14909	1	below	10	1.0
	Notes AQ				
14	lcs-14909	1	below	11	1.0
	Notes AQ				
15	lcsd-14909	1	below	12	1.0
	Notes AQ				
16	1408a13-001d	1	below	13	1.0
	Notes x1 aq re-ext				
17	1408a13-004d	1	below	14	1.0
	Notes x1 aq re-ext				
18	1408a13-011d	1	below	15	1.0
	Notes x1 aq re-ext				
19	1408a13-013d	1	below	16	1.0
	Notes x1 aq re-ext				
20	1408a13-014d	1	below	17	1.0
	Notes x1 aq re-ext				
21	1408759-002a	1	below	18	1.0
	Notes x2 oil				
22	HC 1408900-001a	1	below	19	1.0
	Notes x1				
23	1408914-006a	1	below	20	1.0
	Notes x1				
24					

recheck

dam 8/25/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

JC 8-25-14

Create and update a new RecalcList: c:\varianws\082214.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

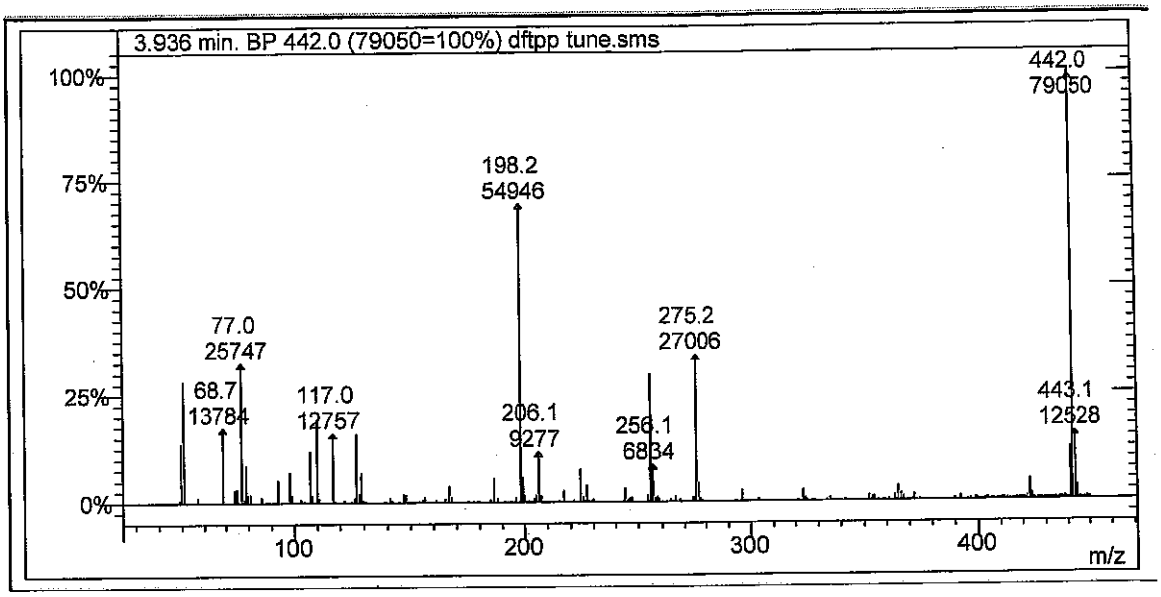
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/22/2014

Injection Time: 10:55

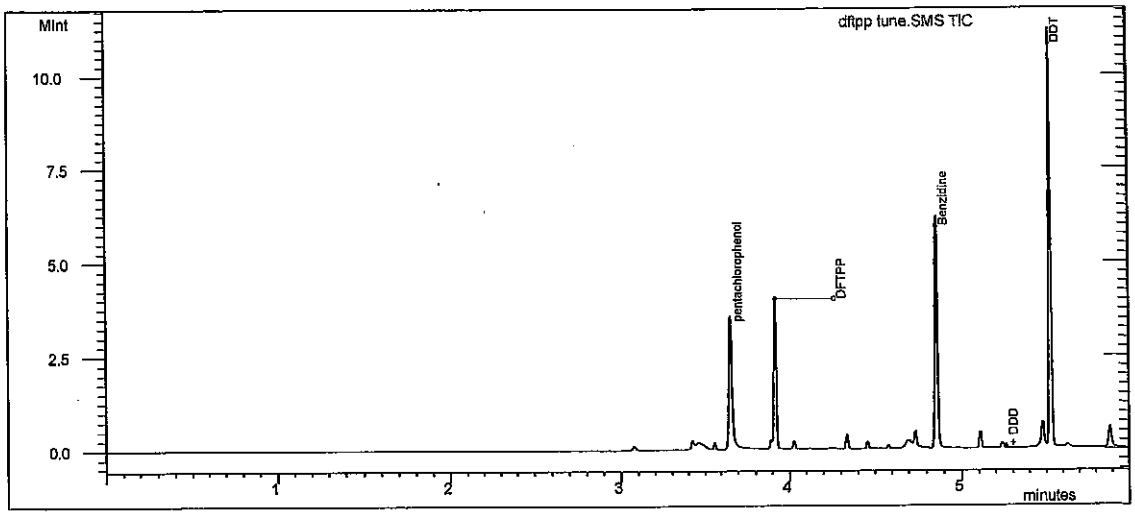
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	28.14	PASS
68	<2% of m/z 69	0.23	PASS
69	Present	17.44	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	15.88	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	69.51	PASS
199	5-9% of m/z 198	8.09	PASS
275	10-60% of base peak	34.16	PASS
365	>1% of base peak	3.44	PASS
441	Present and <m/z 443	76.60	PASS
442	>50% of m/z 198	143.87	PASS
443	15-24% of m/z 442	15.85	PASS

dhm 8/25/14

JV 6-25-14

Degradation Report

Acquisition Date:	8/22/2014 10:55:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.529	2.592E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.259	11360	5
DDE	4.980	1192	6

% Degradation of DDT : = .482/

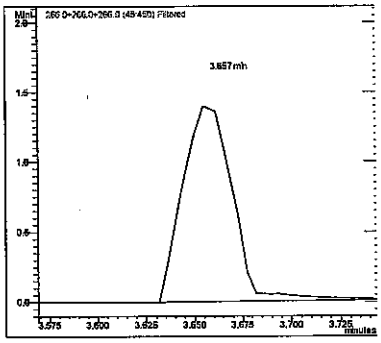
dam 8/25/14

JV 8.26.14

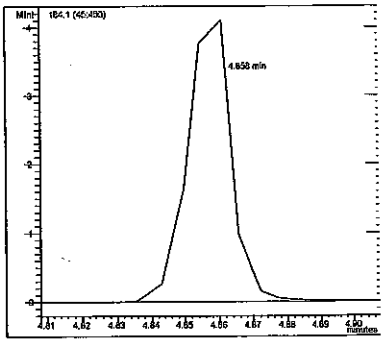
Tailing and Gaussian Factor Report

Acquisition Date:	8/22/2014 10:55:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.657 Area = 2.509E6



Benzidine
RT = 4.858 Area = 3.740E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.657	1.445	0.805
Benzidine	4.858	0.534	0.925

dwm 8/25/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.657	2.509E6
3	Benzidine	4.858	3.740E6

8.25.14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/22/2014 Time: 11:12

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.707	0.050	50.00	62.91	-25.8	40.0	PASS	PASS
Pyridine	11.663	0.050	50.00	64.58	-29.2	40.0	PASS	PASS
2-Fluorophenol	1.153	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
Phenol-d5	1.097	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Phenol	1.155	0.050	50.00	47.05	5.9	20.0	PASS	PASS
Aniline	3.320	0.050	50.00	40.55	18.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.011	0.050	50.00	50.11	-0.2	40.0	PASS	PASS
2-Chlorophenol	1.181	0.050	50.00	49.37	1.3	40.0	PASS	PASS
1,3-Dichlorobenzene	1.457	0.050	50.00	48.31	3.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.398	0.050	50.00	48.99	2.0	20.0	PASS	PASS
Benzyl alcohol	1.140	0.050	50.00	50.93	-1.9	40.0	PASS	PASS
1,2-Dichlorobenzene	1.413	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
2-Methylphenol	0.933	0.050	50.00	47.80	4.4	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.295	0.050	50.00	46.05	7.9	40.0	PASS	PASS
3+4-Methylphenol	1.105	0.050	50.00	45.10	9.8	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.503	0.050	50.00	49.49	1.0	40.0	PASS	PASS
Hexachloroethane	4.524	0.050	50.00	48.82	2.4	40.0	PASS	PASS
Nitrobenzene-d5	0.302	0.050	50.00	49.06	1.9	40.0	PASS	PASS
Nitrobenzene	0.325	0.050	50.00	51.43	-2.9	40.0	PASS	PASS
Isophorone	0.625	0.050	50.00	53.41	-6.8	40.0	PASS	PASS
2-Nitrophenol	0.319	0.050	50.00	51.33	-2.7	20.0	PASS	PASS
2,4-Dimethylphenol	0.359	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Benzoic acid	2.363	0.050	50.00	54.24	-8.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.397	0.050	50.00	54.89	-9.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.354	0.050	50.00	50.14	-0.3	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Naphthalene	0.839	0.050	50.00	50.51	-1.0	40.0	PASS	PASS
4-Chloroaniline	0.385	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobutadiene	0.577	0.050	50.00	43.31	13.4	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.428	0.050	50.00	51.04	-2.1	20.0	PASS	PASS
2-Methylnaphthalene	0.225	0.050	50.00	44.56	10.9	40.0	PASS	PASS
1-Methylnaphthalene	0.220	0.050	50.00	42.94	14.1	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.414	0.050	50.00	41.22	17.6	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.298	0.050	50.00	41.74	16.5	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.273	0.050	50.00	41.16	17.7	40.0	PASS	PASS
2-Fluorobiphenyl	1.437	0.050	50.00	46.88	6.2	40.0	PASS	PASS

dam 8/25/14

8.25.14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.526	0.050	50.00	48.78	2.4	40.0	PASS	PASS
2-Nitroaniline	1.088	0.050	50.00	48.76	2.5	40.0	PASS	PASS
Dimethyl phthalate	2.997	0.050	50.00	52.08	-4.2	40.0	PASS	PASS
2,6-Dinitrotoluene	0.688	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Acenaphthylene	1.824	0.050	50.00	46.81	6.4	40.0	PASS	PASS
3-Nitroaniline	1.080	0.050	50.00	49.59	0.8	40.0	PASS	PASS
Acenaphthene	1.190	0.050	50.00	47.12	5.8	20.0	PASS	PASS
2,4-Dinitrophenol	2.660	0.050	50.00	62.62	-25.2	40.0	PASS	PASS
4-Nitrophenol	0.205	0.050	50.00	52.99	-6.0	40.0	PASS	PASS
Dibenzofuran	0.747	0.050	50.00	40.67	18.7	40.0	PASS	PASS
2,4-Dinitrotoluene	0.315	0.050	50.00	42.61	14.8	40.0	PASS	PASS
Diethyl phthalate	2.412	0.050	50.00	47.77	4.5	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.614	0.050	50.00	36.51	27.0	40.0	PASS	PASS
Fluorene	2.398	0.050	50.00	46.13	7.7	40.0	PASS	PASS
4-Nitroaniline	1.910	0.050	50.00	49.45	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.614	0.050	50.00	64.78	-29.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.662	0.050	50.00	49.72	0.6	20.0	PASS	PASS
Azobenzene	0.937	0.050	50.00	49.97	0.1	40.0	PASS	PASS
2,4,6-Tribromophenol	1.692	0.050	50.00	51.07	-2.1	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.492	0.050	50.00	48.17	3.7	40.0	PASS	PASS
Hexachlorobenzene	0.500	0.050	50.00	45.15	9.7	40.0	PASS	PASS
Pentachlorophenol	1.532	0.050	50.00	53.91	-7.8	20.0	PASS	PASS
Phenanthrene	1.013	0.050	50.00	52.66	-5.3	40.0	PASS	PASS
Anthracene	1.105	0.050	50.00	56.70	-13.4	40.0	PASS	PASS
Carbazole	0.910	0.050	50.00	47.97	4.1	40.0	PASS	PASS
Di-n-butyl phthalate	2.096	0.050	50.00	52.24	-4.5	40.0	PASS	PASS
Fluoranthene	0.880	0.050	50.00	47.25	5.5	20.0	PASS	PASS
Benzidine	0.432	0.050	50.00	39.29	21.4	40.0	PASS	PASS
Pyrene	0.823	0.050	50.00	49.38	1.2	40.0	PASS	PASS
4-Terphenyl-d14	1.141	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Butyl benzyl phthalate	0.987	0.050	50.00	52.05	-4.1	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.799	0.050	50.00	47.10	5.8	40.0	PASS	PASS
Benz[a]anthracene	1.522	0.050	50.00	42.21	15.6	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.833	0.050	50.00	35.30	29.4	40.0	PASS	PASS
Chrysene	1.879	0.050	50.00	45.47	9.1	40.0	PASS	PASS
Di-n-octyl phthalate	2.515	0.050	50.00	52.77	-5.5	20.0	PASS	PASS
Benzo(b)fluoranthene	1.367	0.050	50.00	47.29	5.4	40.0	PASS	PASS
Benzo[k]fluoranthene	1.449	0.050	50.00	49.91	0.2	40.0	PASS	PASS
Benzo[a]pyrene	1.349	0.050	50.00	49.36	1.3	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.818	0.050	50.00	47.19	5.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.711	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.814	0.050	50.00	47.99	4.0	40.0	PASS	PASS

dam 8/25/14

8-25-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	121990	5.18	392842	6.90	189153	9.49	367214	11.74	386154	15.76	497370	17.90

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 8/25/14

JC 8-25-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\082214\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 8/22/2014 Time Analyzed: 11:12

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	121990	5.18	392842	6.90	189153	9.49	367214	11.74	386154	15.76	497370	17.90
UPPER LIMIT	243980	5.68	785684	7.40	378306	9.99	734428	12.24	772308	16.26	994740	18.40
LOWER LIMIT	60995	4.68	196421	6.40	94577	8.99	183607	11.24	193077	15.26	248685	17.40
EPA SAMPLE NO												
1408a13-01	94701	5.18	316984	6.90	148339	9.49	289245	11.74	337526	15.75	404239	17.90
mb-14890	78249	5.18	253454	6.90	126034	9.49	239972	11.74	286258	15.75	350306	17.90
lcs-14890	86892	5.18	279531	6.90	140013	9.49	281921	11.74	330649	15.75	391907	17.90
1408a76-00	85201	5.18	319888 D	6.90 D	168178	9.50	297396	11.74	301885	15.75	367252	17.90
1408a76-00	92896	5.18	343134 D	6.90 D	183656	9.50	328994	11.74	363310	15.75	429959 D	17.90 D
1408a76-00	78730	5.17	291956 D	6.90 D	152923	9.49	261407	11.74	292826	15.75	344296	17.90
1408a76-00	89712 D	5.18 D	301526 D	6.91 D	179341	9.50	336735	11.74	403312	15.75	482569	17.90
1408a76-00	70897 D	5.18 D	232130 D	6.91 D	147743	9.50	264296	11.74	290471	15.75	352286	17.90
1408a76-00	84654	5.17	302120 D	6.89 D	152372	9.49	269243	11.74	292494	15.75	353422	17.90
1408a76-00	75993	5.18	267951 D	6.90 D	130321	9.49	245529	11.74	272663	15.76	327763	17.91
mb-14909	81128	5.18	267038	6.90	135374	9.49	263292	11.74	289264	15.76	359015	17.91
lcs-14909	87597	5.18	270989	6.89	135251	9.49	273632	11.74	327411	15.75	410925	17.90
lcsd-14909	87547	5.18	290130	6.90	140160	9.49	262768	11.74	302762	15.75	385869	17.90
1408a13-00	81492	5.18	273191	6.89	144626	9.49	286573	11.73	333293	15.75	404310	17.90
1408a13-00	86651	5.17	291414	6.89	138217	9.49	245246	11.74	247865	15.75	297941	17.90
1408a13-01	67358	5.17	228895	6.89	117067	9.49	230047	11.74	277801	15.75	352506	17.90
1408a13-01	82000	5.17	286417	6.89	148155	9.49	272134	11.73	308862	15.75	379213	17.90

dam 8/25/14

8.25.14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1408a13-01	79671	5.18	271611	6.90	132687	9.49	243658	11.74	278349	15.75	338974	17.90
1408759-00	77248	5.18	256791	6.90	124310	9.50	242922	11.74	282119	15.75	354895	17.90
1408900-00	76183	5.18	268049 D	6.90 D	172370 D	9.51 D	259957 D	11.76 D	352213	15.76	500146	17.91
1408914-00	89226	5.17	284657	6.89	142097	9.49	296759	11.74	355626	15.75	489176	17.90

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

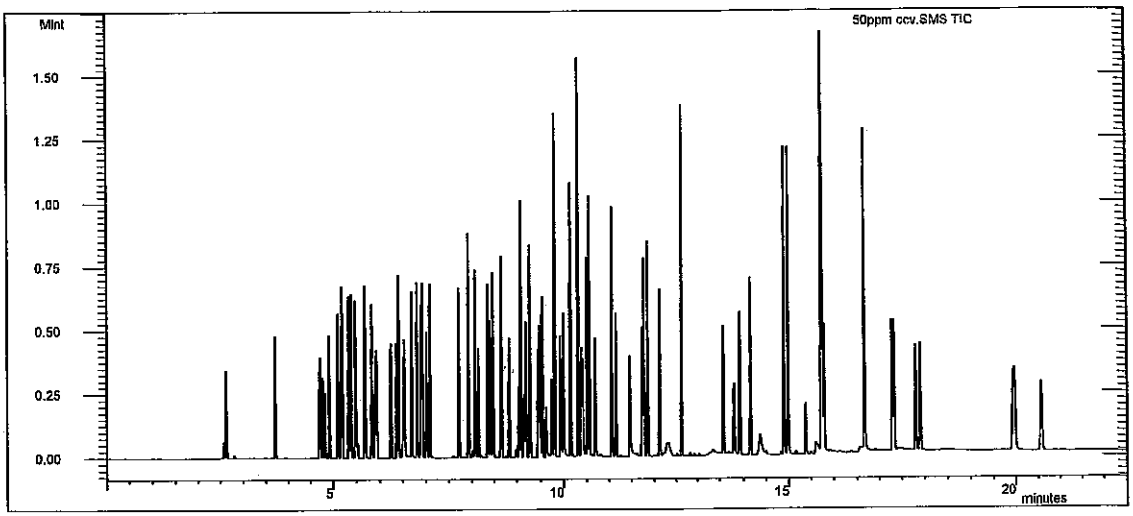
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 8/25/14

8.25.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	8/22/2014 11:12:29 AM
Calculation Date:	8/22/2014 11:34:58 AM				



dkm 8/25/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.175	437	Identified	121990	40.000
Naphthalene-d8 (I.S)	6.897	617	Identified	392842	40.000
Acenaphthene-d10 (I.S)	9.493	889	Identified	189153	40.000
Phenanthrene-d10	11.741	1125	Identified	367214	40.000
Chrysene-d12 I.S	15.756	1547	Identified	386154	40.000
Perylene-d12 I.S	17.905	1770	Identified	497370	40.000
N-nitrosodimethylamine	2.586	163	Identified	565267	62.914
Pyridine	2.631	168	Identified	1.778E6	64.582
2-Fluorophenol	3.699	281	Identified	175884	50.276
Phenol-d5	4.704	387	Identified	167224	50.224
Phenol	4.719	389	Identified	176124	47.055
Aniline	4.775	395	Identified	506193	40.551
Bis(2-chloroethyl)ether	4.828	400	Identified	306597	50.107
2-Chlorophenol	4.918	410	Identified	180135	49.373
1,3-Dichlorobenzene	5.105	430	Identified	222123	48.309
1,4-Dichlorobenzene	5.196	439	Identified	213248	48.988
Benzyl alcohol	5.340	454	Identified	173873	50.934
1,2-Dichlorobenzene	5.391	459	Identified	215418	50.216
2-Methylphenol	5.478	468	Identified	142271	47.797
Bis(2-chloroisopropyl)ether	5.497	470	Identified	197504	46.055
3+4-Methylphenol	5.681	489	Identified	168451	45.101
N-Nitrosodi-n-propylamine	5.676	489	Identified	534178	49.492
Hexachloroethane	5.830	505	Identified	689877	48.819
Nitrobenzene-d5	5.904	513	Identified	148370	49.057

8.25.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.930	515	Identified	159583	51.429
Isophorone	6.235	548	Identified	307087	53.408
2-Nitrophenol	6.363	561	Identified	156417	51.334
2,4-Dimethylphenol	6.410	566	Identified	176253	49.195
Benzoic acid	6.515	577	Identified	1.160E6	54.238
Bis(2-chloroethoxy)methane	6.538	579	Identified	195177	54.889
2,4-Dichlorophenol	6.697	596	Identified	174040	50.145
1,2,4-Trichlorobenzene	6.813	608	Identified	154639	48.136
Naphthalene	6.927	620	Identified	411854	50.515
4-Chloroaniline	7.015	629	Identified	189193	49.752
Hexachlorobutadiene	7.089	637	Identified	283110	43.313
4-Chloro-3-methylphenol	7.726	704	Identified	210073	51.039
2-Methylnaphthalene	7.931	726	Failed	110258	44.561
1-Methylnaphthalene	8.079	741	Failed	108220	42.941
Hexachlorocyclopentadiene	8.155	749	Identified	203175	41.215
2,4,6-Trichlorophenol	8.361	771	Failed	70538	41.740
2,4,5-Trichlorophenol	8.417	777	Failed	64634	41.160
2-Fluorobiphenyl	8.476	783	Identified	339690	46.875
2-Chloronaphthalene	8.658	802	Identified	360917	48.782
2-Nitroaniline	8.836	821	Identified	257181	48.765
Dimethyl phthalate	9.094	848	Identified	708652	52.078
2,6-Dinitrotoluene	9.198	858	Identified	162717	49.862
Acenaphthylene	9.282	867	Identified	431313	46.810
3-Nitroaniline	9.458	886	Identified	255246	49.587
Acenaphthene	9.544	895	Identified	281477	47.118
2,4-Dinitrophenol	9.609	902	Identified	628816	62.623
4-Nitrophenol	9.736	915	Identified	48479	52.992
Dibenzofuran	9.804	922	Identified	176617	40.675
2,4-Dinitrotoluene	9.804	922	Identified	74385	42.605
Diethyl phthalate	10.152	958	Identified	570188	47.773
4-Chlorophenyl phenyl ether	10.318	976	Failed	145219	36.508
Fluorene	10.319	976	Identified	567006	46.128
4-Nitroaniline	10.385	983	Identified	451715	49.453
4,6-Dinitro-2-methylphenol	10.417	986	Identified	740877	64.785
N-Nitrosodiphenylamine	10.510	996	Identified	303899	49.721
Azobenzene	10.561	1001	Identified	430227	49.968
2,4,6-Tribromophenol	10.693	1015	Identified	776804	51.067
4-Bromophenyl phenyl ether	11.060	1054	Failed	225815	48.175
Hexachlorobenzene	11.148	1063	Identified	229333	45.153
Pentachlorophenol	11.463	1096	Identified	703015	53.915
Phenanthrene	11.776	1129	Identified	464803	52.655
Anthracene	11.852	1137	Identified	507027	56.700
Carbazole	12.118	1165	Identified	417829	47.975
Di-n-butyl phthalate	12.621	1218	Identified	962244	52.244
Fluoranthene	13.582	1319	Identified	403976	47.254
Benzidine	13.814	1344	Identified	208401	39.289
Pyrene	13.929	1356	Identified	397065	49.379
4-Terphenyl-d14	14.162	1380	Identified	550791	47.656
Butyl benzyl phthalate	14.901	1458	Identified	476521	52.049
3,3'-Dichlorobenzidine	15.726	1544	Identified	868329	47.105

Operator: David Melius Inj. Notes: sv110-0594 50ppm ccv.SMS

8/22/2014 11:36

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.741	1546	Identified	734465	42.211
Bis(2-ethylhexyl)phthalate	15.741	1546	Identified	402107	35.305
Chrysene	15.797	1552	Identified	907108	45.472
Di-n-octyl phthalate	16.673	1643	Identified	1.214E6	52.768
Benzo(b)fluoranthene	17.291	1707	Identified	850035	47.290
Benzo[k]fluoranthene	17.331	1711	Identified	901027	49.908
Benzo[a]pyrene	17.809	1760	Identified	838866	49.365
Indeno[1,2,3-cd]pyrene	19.942	1982	Identified	508638	47.190
Dibenz[a,h]anthracene	19.982	1986	Identified	441954	48.933
Benzo[g,h,i]perylene	20.570	2048	Identified	506326	47.985

```
************************************************************
Revision Log
************************************************************

8/22/2014 11:34 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 042514.mth'
```

:List: C:\VarianWS\042514crv.smp

:d: Fri Apr 25 09:05:43 2014
.ed: Fri Apr 25 15:09:46 2014

:**********

:e	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
0	50ppm crv	1	below	8	1.0
	Notes st110-0594				
1	80ppm crv	1	below	9	1.0
	Notes st110-0595				
2	100ppm crv	1	below	10	1.0
	Notes st110-0596				
3	120ppm crv	1	below	11	1.0
	Notes st110-0597				
4	50ppm icv	1	below	12	1.0
	Notes st110-0599				
5					

dam
4/28/14

JV
4.28.14

ctory for Data Files: C:\VarianWS\data

Data File Names: %s

te and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z	
51	10-80% of base peak	19.8			
68	<2% of m/z 69	0.1	(0.3)	69	
69	Present	22.3			
70	<2% of m/z 69	0.0			
127	10-80% of base peak	21.8			
197	<2% of m/z 198	0.0			
198	Base peak	100.0			
199	5-9% of m/z 198	5.8			
275	10-60% of base peak	34.5			
365	>1% of base peak	6.8			
441	Present and <m/z 443	3.9	(41.6)	443	
442	>50% of m/z 198	53.5			
443	15-24% of m/z 442	9.4	(17.5)	442	

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

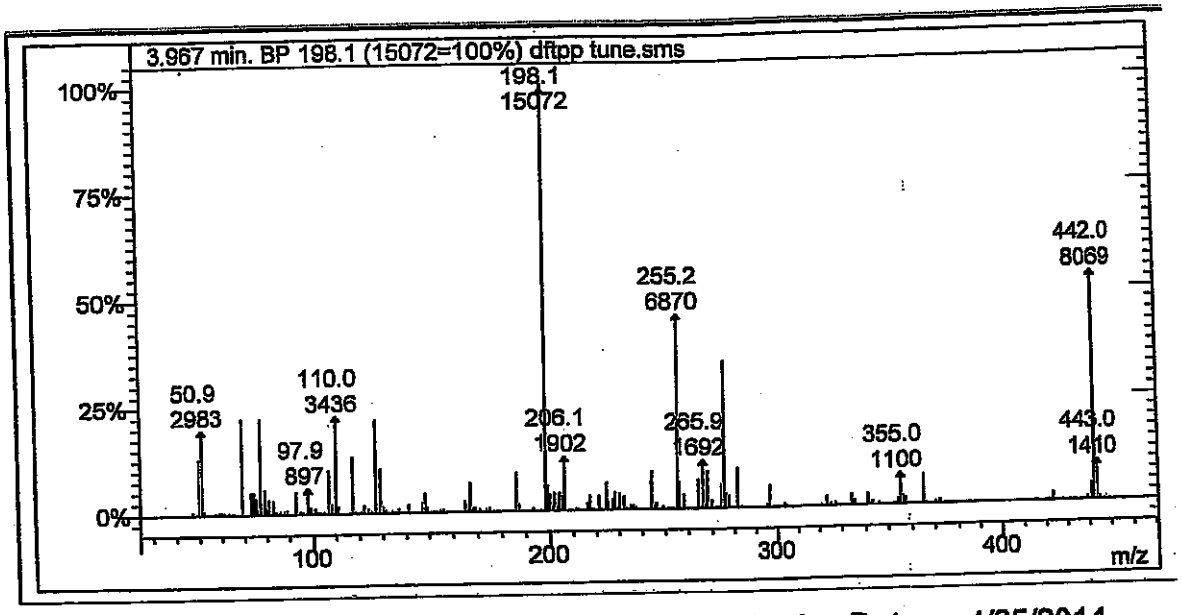
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dam 4/28/14

JV 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

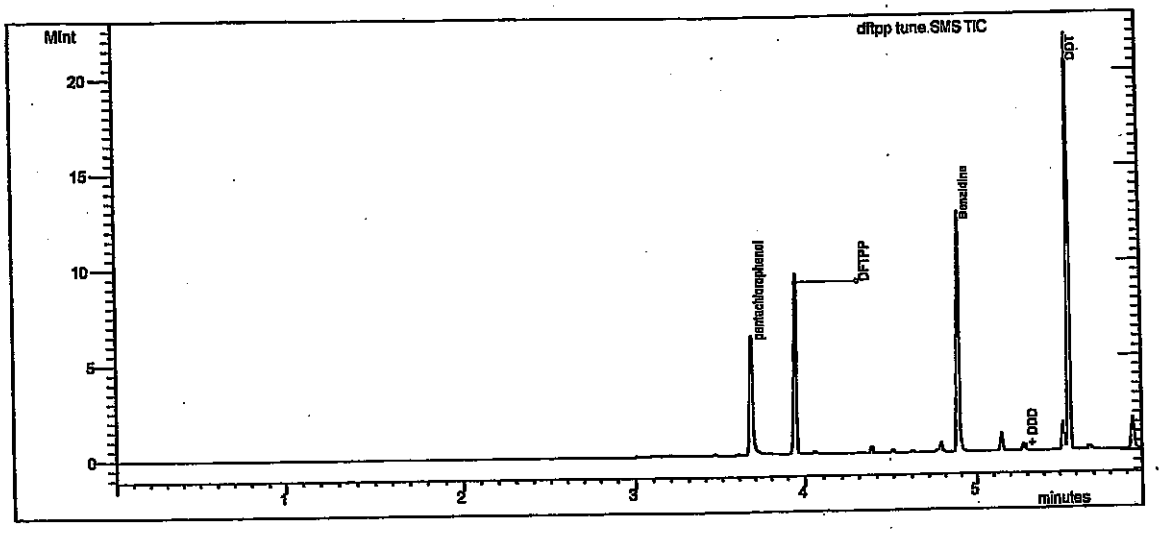
Jdan 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

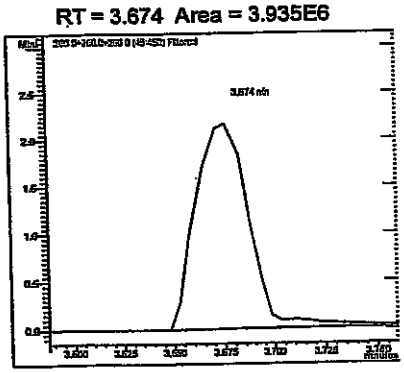
% Degradation of **DDT: =** .509 ✓ dam 4/28/14

✓ 4-28-14

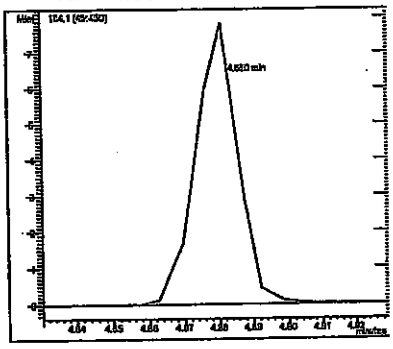
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

dfm 4/28/14

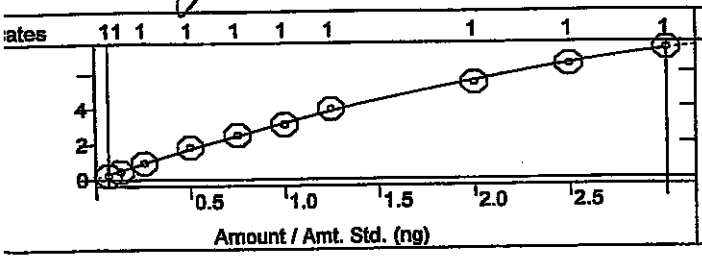
4-28-14

ibration Curve Report

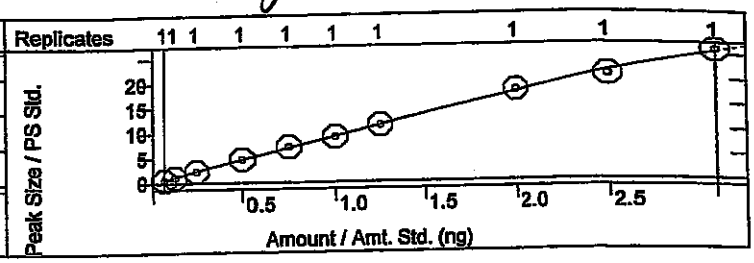
od:	c:\varianws\methods\8270 042514.mth		
ılc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ıence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
(Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

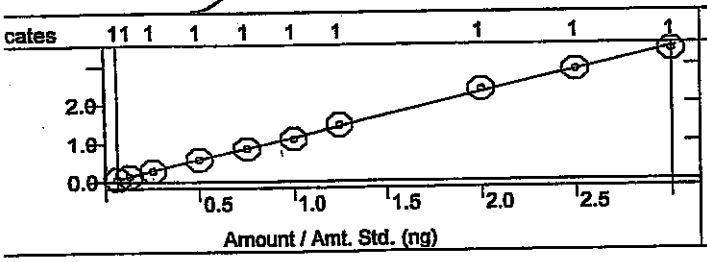
trosodimethylamine
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
-0.3412x2 +3.4265x +0.0884



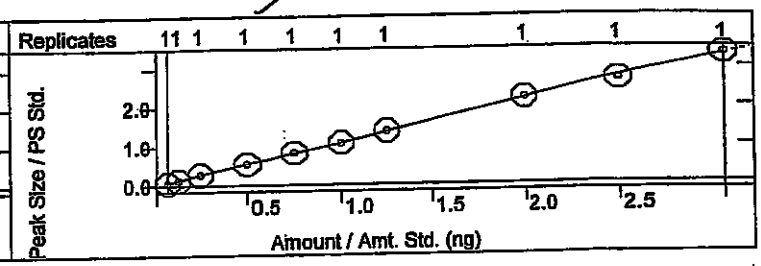
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



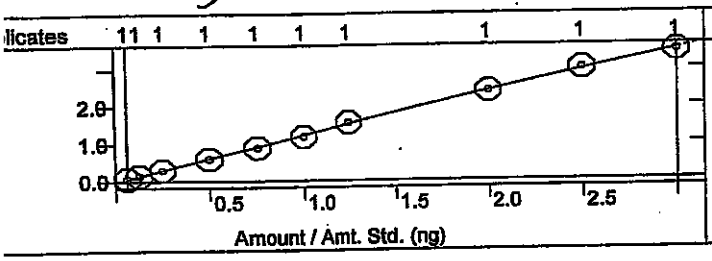
luorophenol
ve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
+1.1454x +0.0021



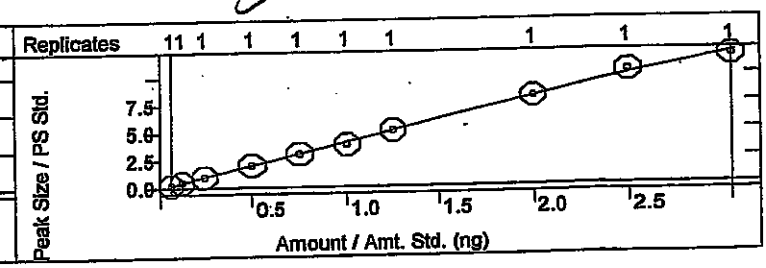
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



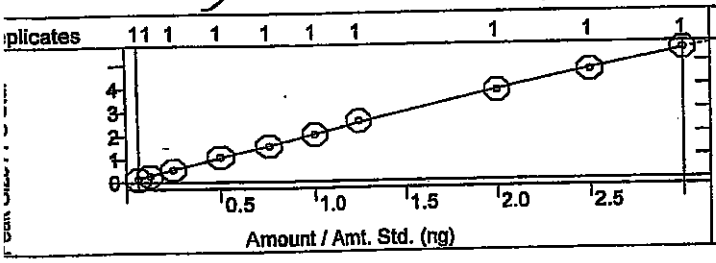
enol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



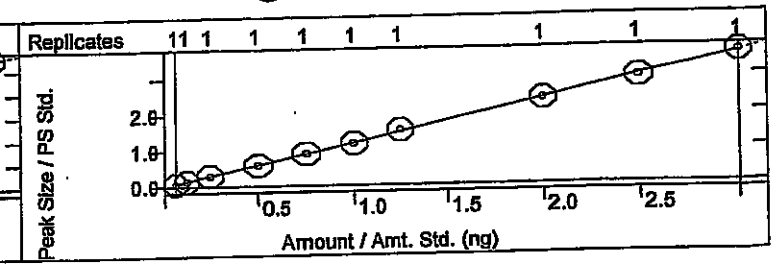
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



is(2-chloroethyl)ether
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242

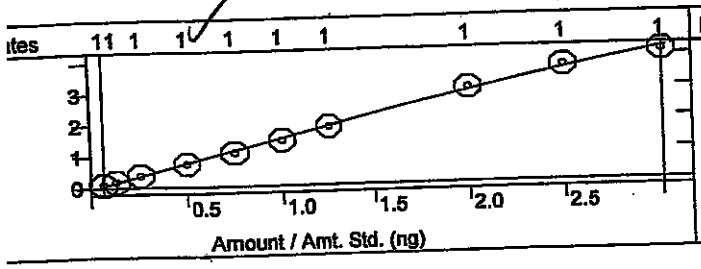


2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021

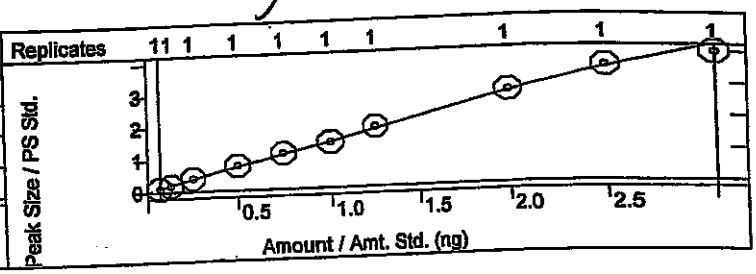


d:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
: Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

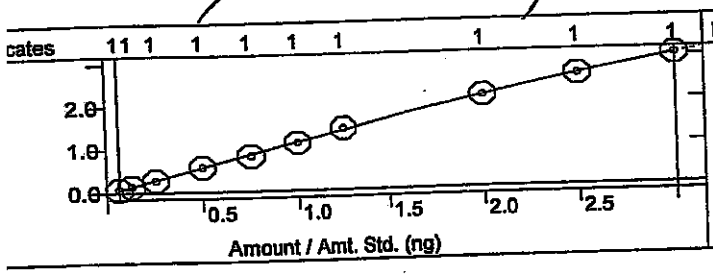
ichlorobenzene
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
0.0693x2 +1.6278x -0.0442



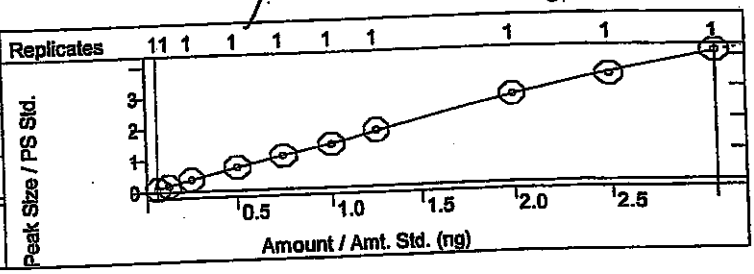
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



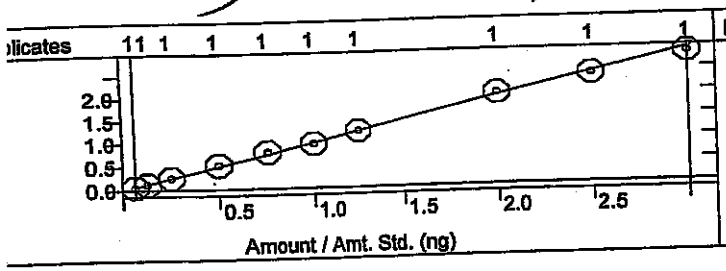
zyl alcohol
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
-0.0661x2 +1.2165x -0.0165



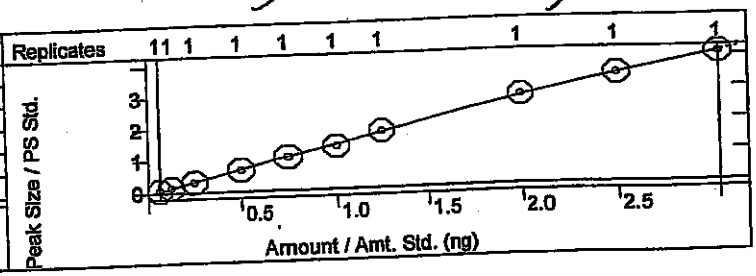
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



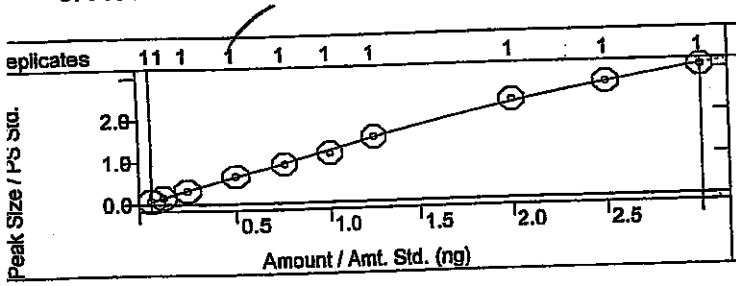
Methylphenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



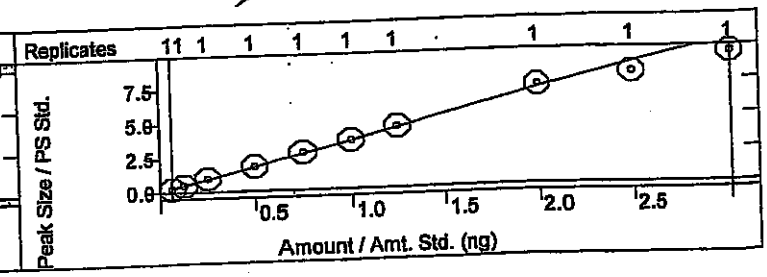
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
= -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



d:	c:\varianws\methods\8270 042514.mth		
: Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
le List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ance:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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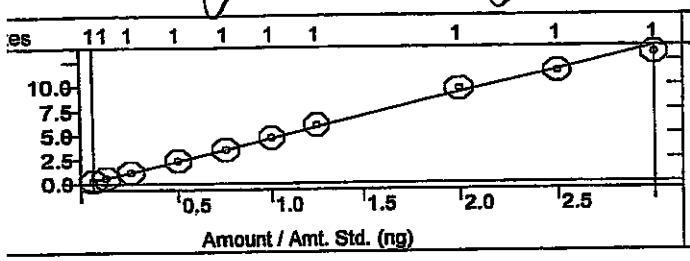
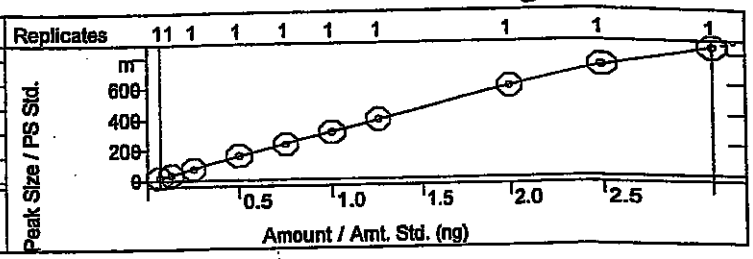
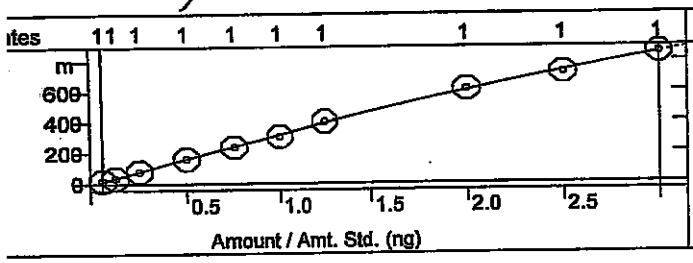
chloroethane
Fit: Linear, Origin: Ignore, Weight: 1/X
Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
4.6167x +0.0205



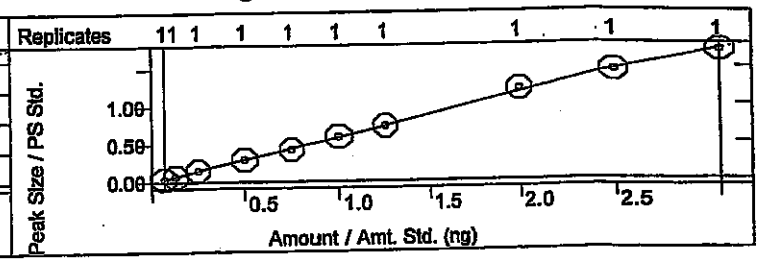
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



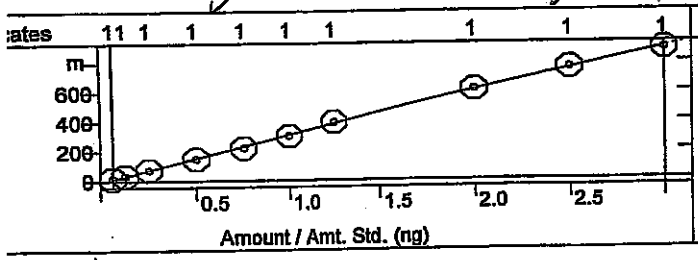
benzene
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
0.0200x2 +0.3461x -0.0058



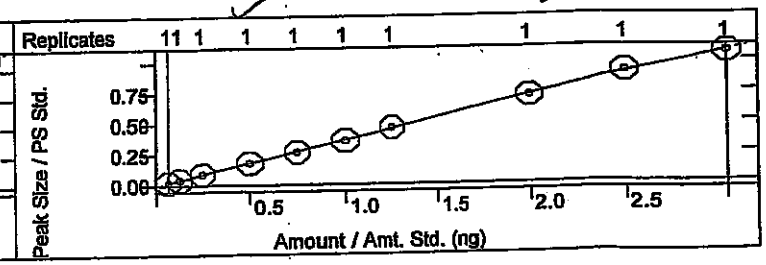
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



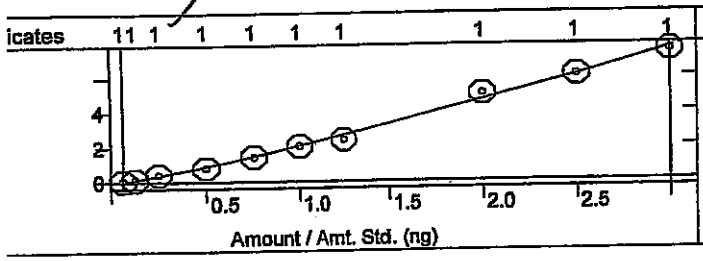
trophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
-0.0089x2 +0.3282x -0.0083



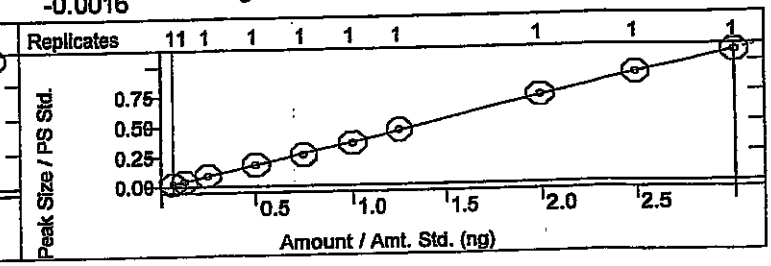
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



nzoic acid
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
+0.1762x2 +2.0528x -0.1534



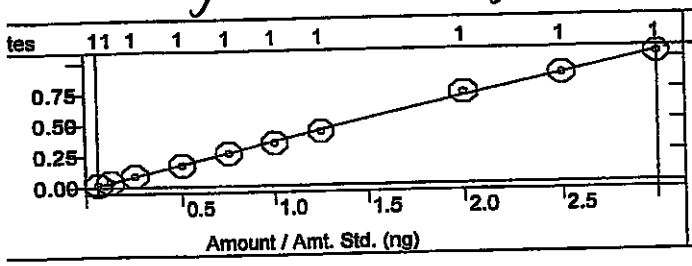
Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



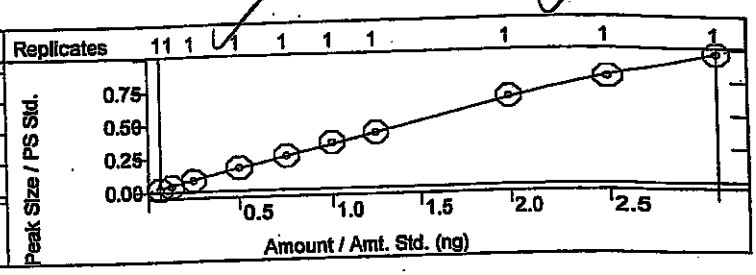
d:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ɔ Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ɜnce:	N/A	Workstation Version:	Version 6.9
/orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JL 4-28-14

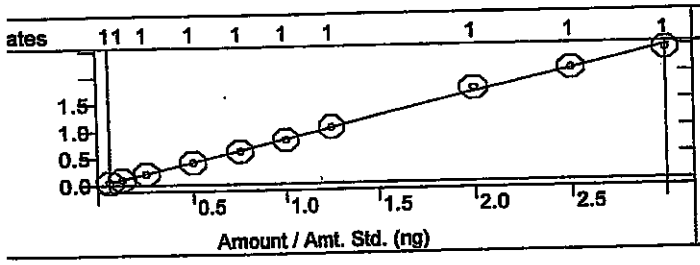
ichlorophenol
ɜ Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
0.0055x2 +0.3668x -0.0082



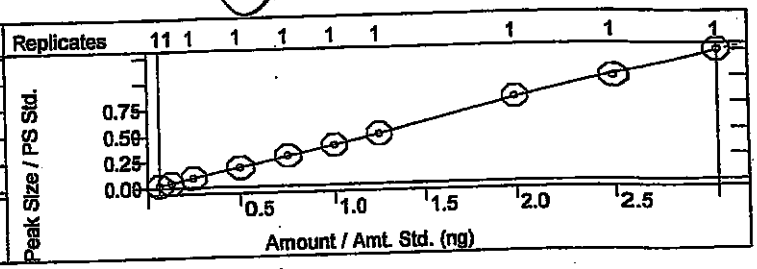
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



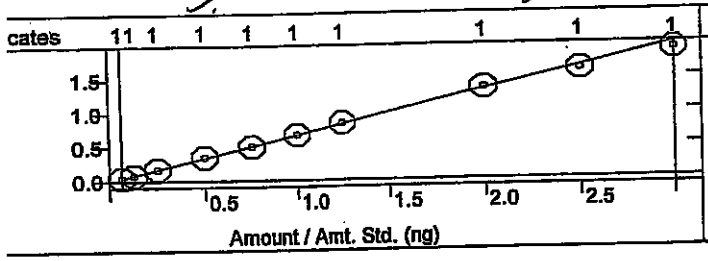
ıthalene
ɾe Fit: Linear, Origin: Ignore, Weight: None
ɒ. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
+0.8263x +0.0048



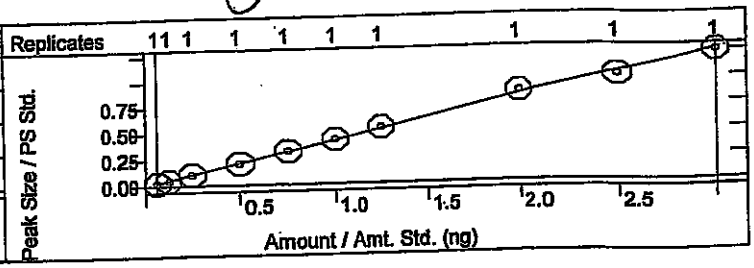
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



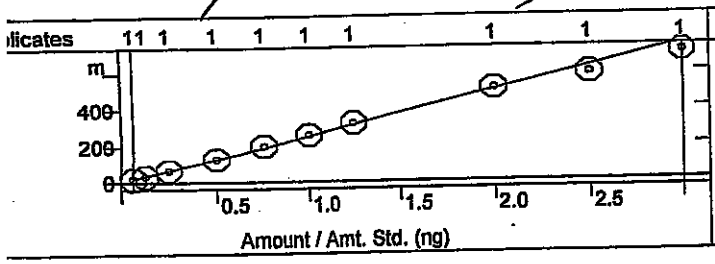
ɛachlorobutadiene
ʼve Fit: Linear, Origin: Ignore, Weight: 1/X2
ɜp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
+0.6599x +0.0061



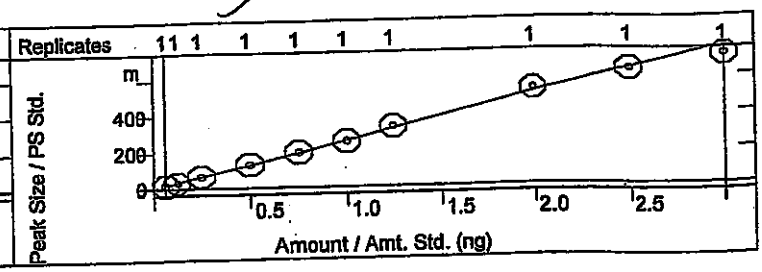
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



Methylnaphthalene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X2
ɜsp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
= +0.2503x +0.0018



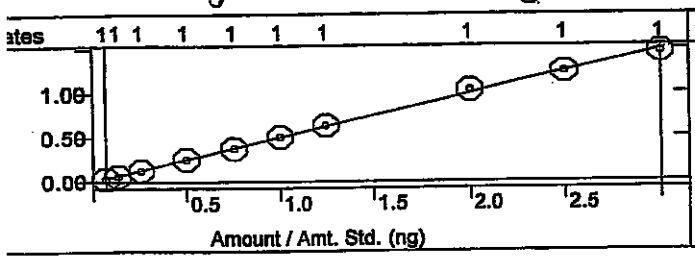
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



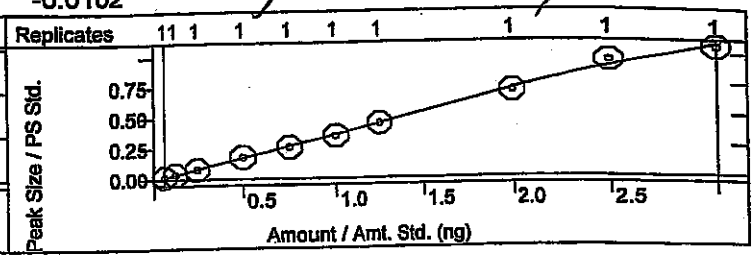
od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

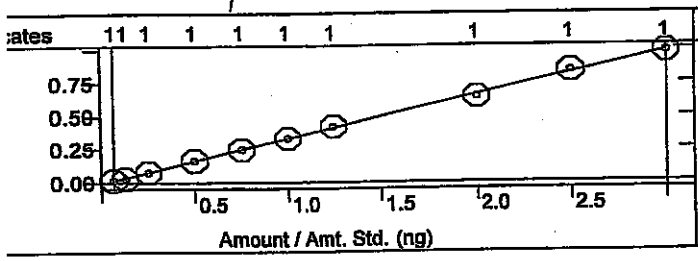
ichlorocyclopentadiene
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
+0.4936x +0.0086



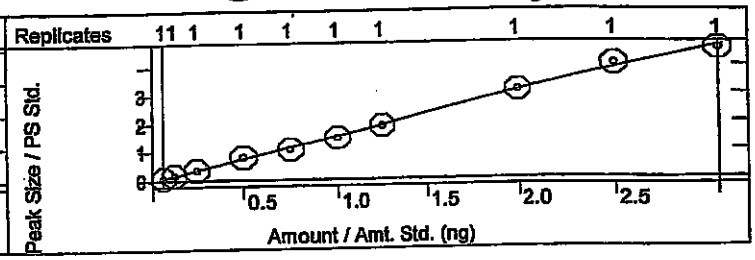
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



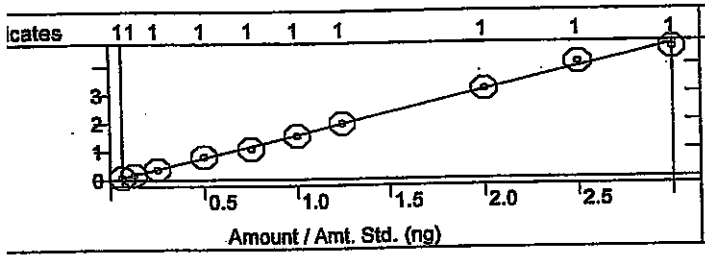
5-Trichlorophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
-0.0042x2 +0.3430x -0.0068



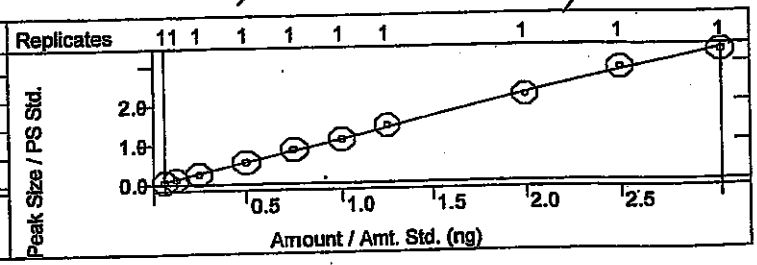
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



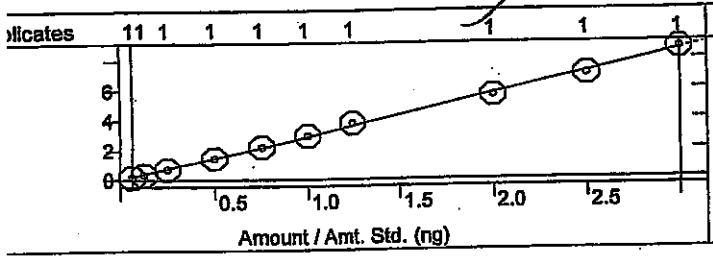
hloronaphthalene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
+1.5769x -0.0150



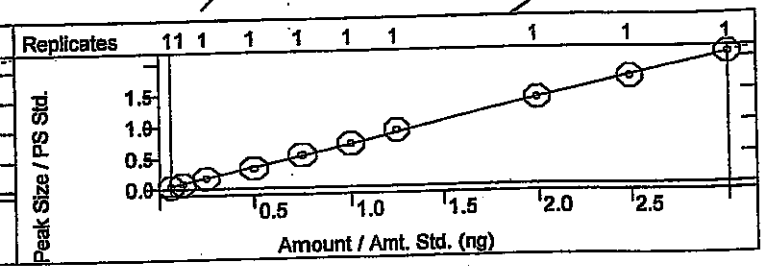
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



methyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
= +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



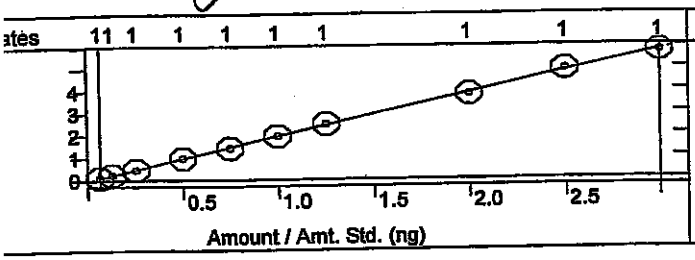
bration Curves Report

V AM 4/28/14

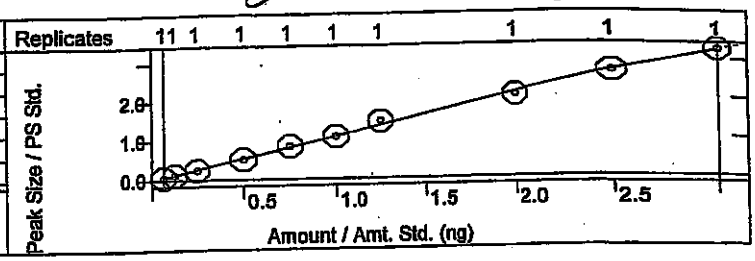
od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ıle List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

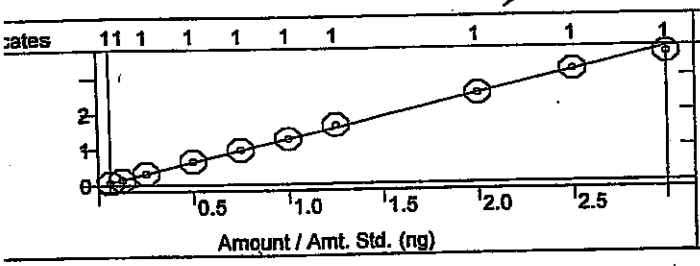
ıaphthylene
e Fit: Quadratic, Origin: Ignore, Weight: None
). Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
-0.0224x2 +2.0006x -0.0303



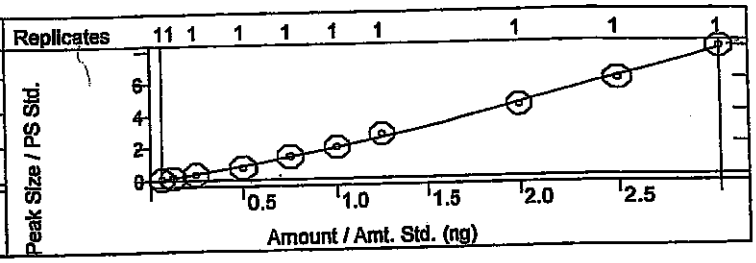
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



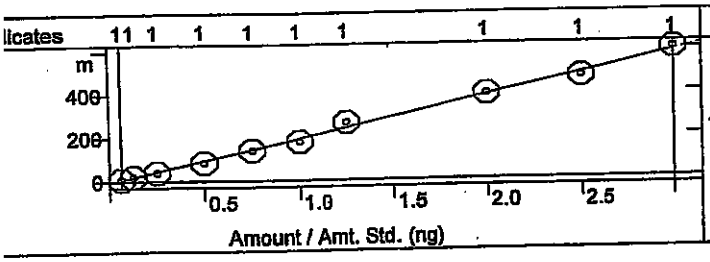
naphthene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ıp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
+1.2637x -5.2278e-4



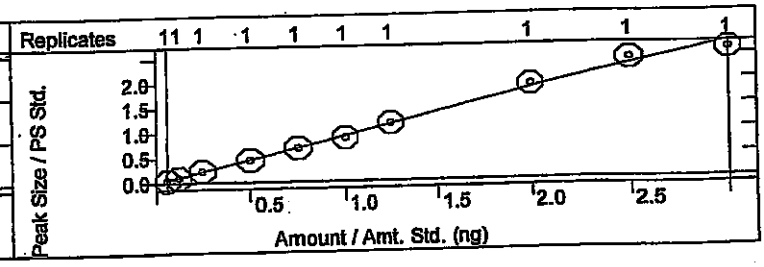
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6287x -0.0504



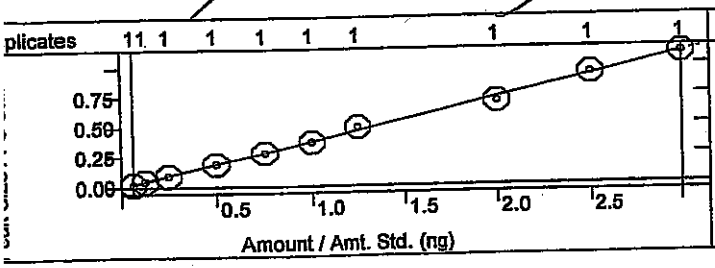
litrophenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
: +0.1978x -0.0058



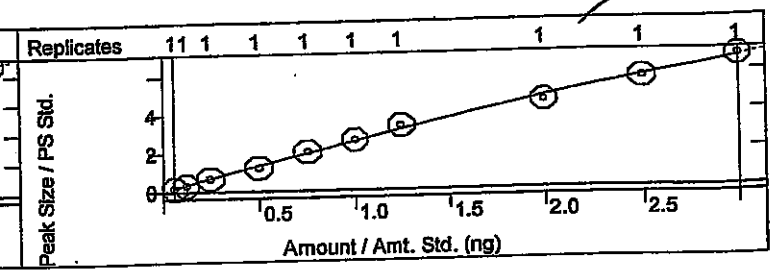
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



4-Dinitrotoluene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
= -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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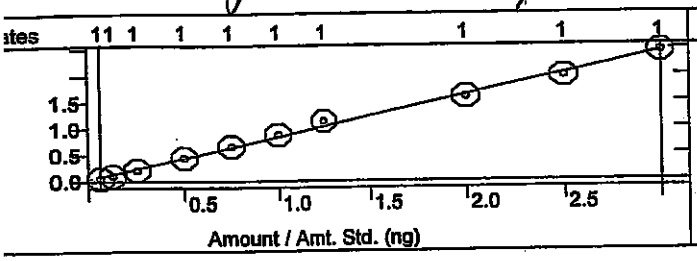
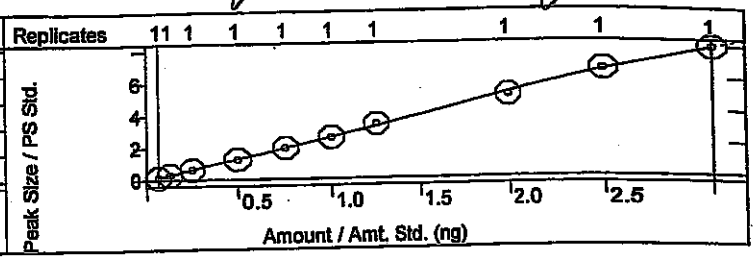
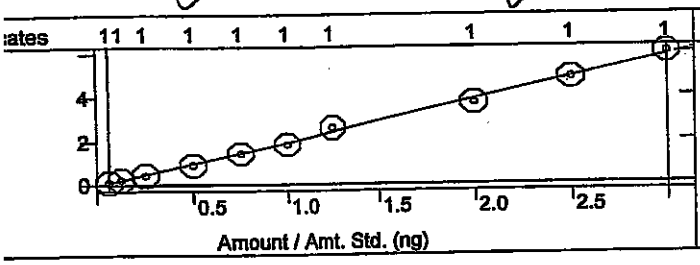
lorophenyl phenyl ether
e Fit: Linear, Origin: Ignore, Weight: None
). Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
+0.8008x +0.0369



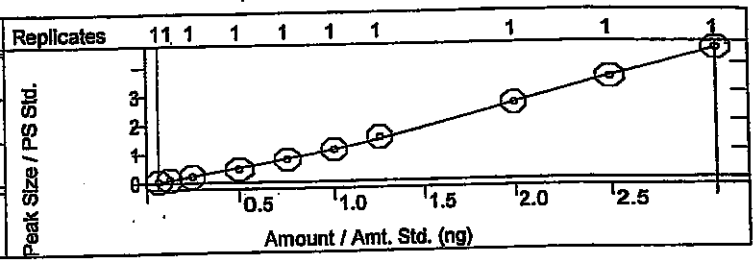
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



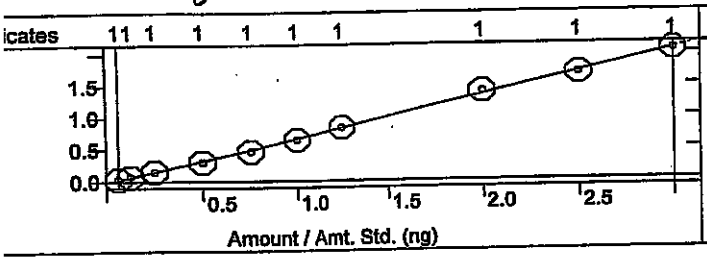
troaniline
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
+1.9592x -0.0342



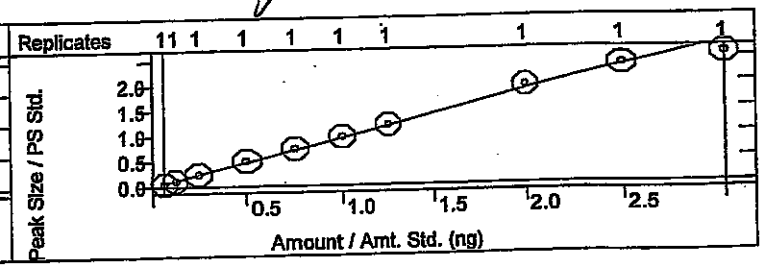
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



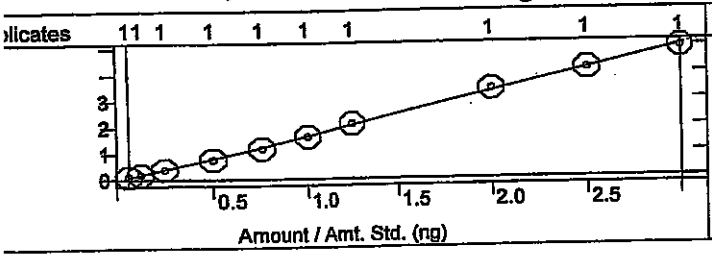
litrosodiphenylamine
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
+0.0060x2 +0.6726x -0.0178



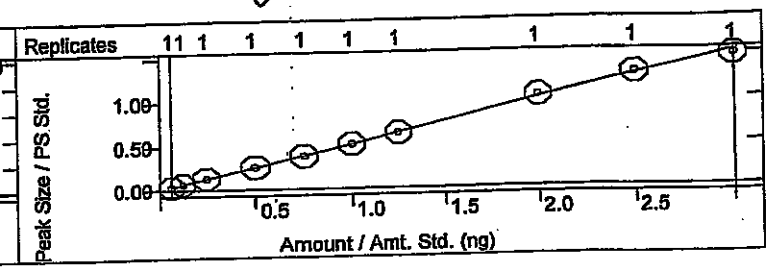
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



l,6-Tribromophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



ibration Curves Report

od:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
lic Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ple List:	N/A	Detector:	2000 Mass Spec
ience:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
t Measurement:	Area		

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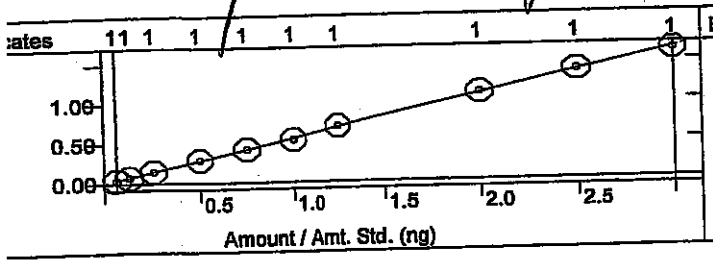
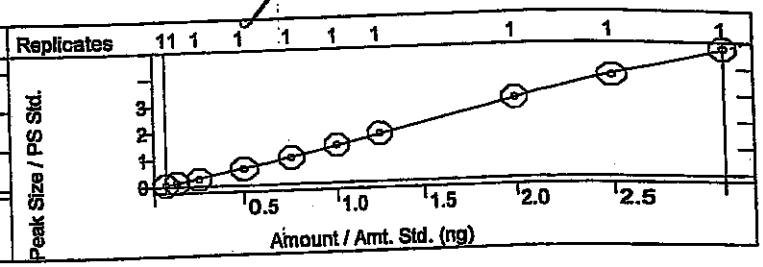
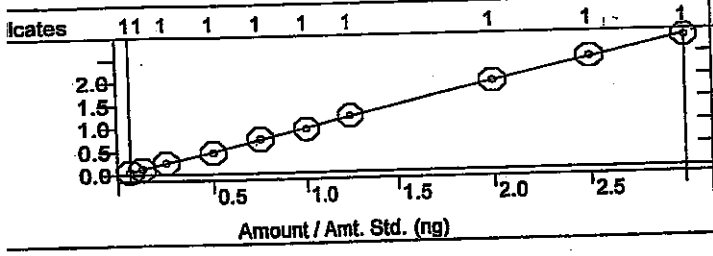
achlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
+0.5470x +0.0070



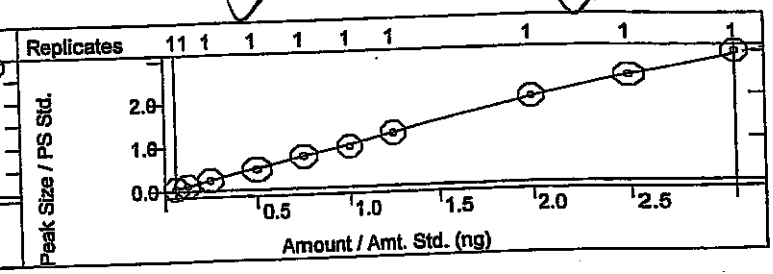
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



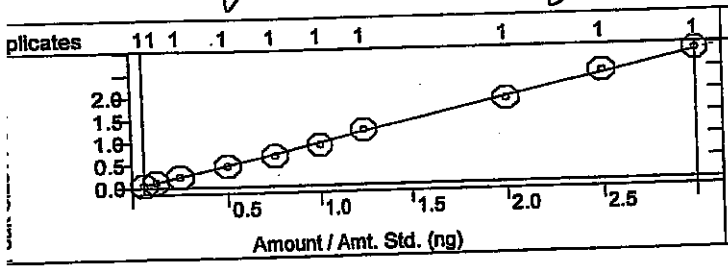
enanthrene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
+0.9606x +0.0012



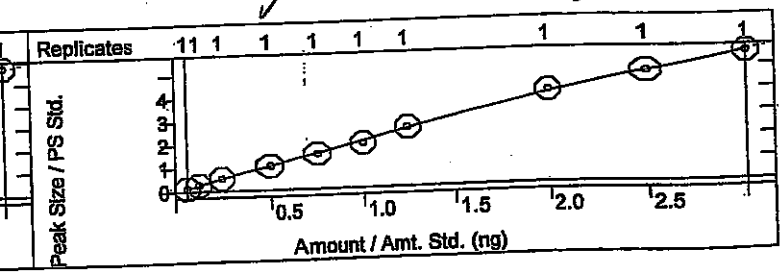
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



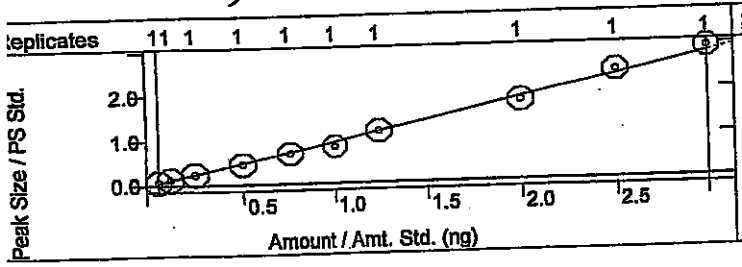
arbazole
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
= +0.9547x -0.0072



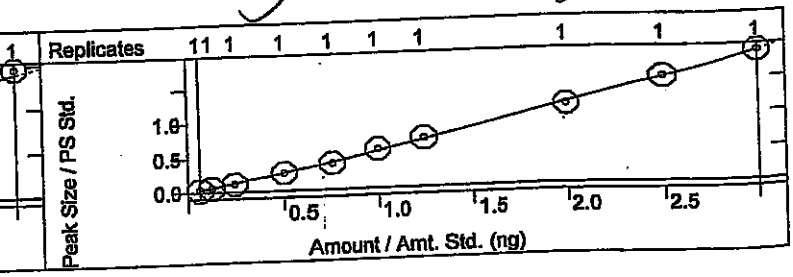
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



luoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



ıod: c:\varianws\methods\8270 042514.mth
ılc Method: ...270 042514.mth
ple List: N/A
ıence: N/A
Workstation (Upgrade)
ı Measurement: Area

Last Calibration: 4/25/2014 2:36 PM
Cmpd. Table Updated: 4/25/2014 3:08 PM
Detector: 2000 Mass Spec
Workstation Version: Version 6.9
Calibration Type: Internal Standard Analysis

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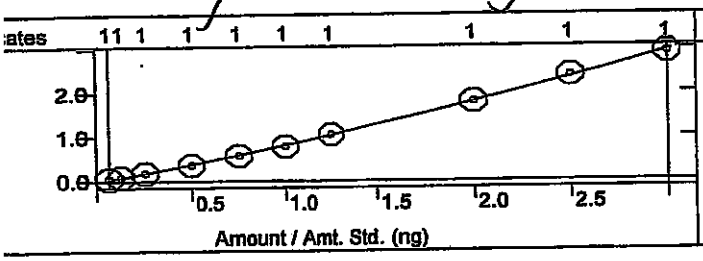
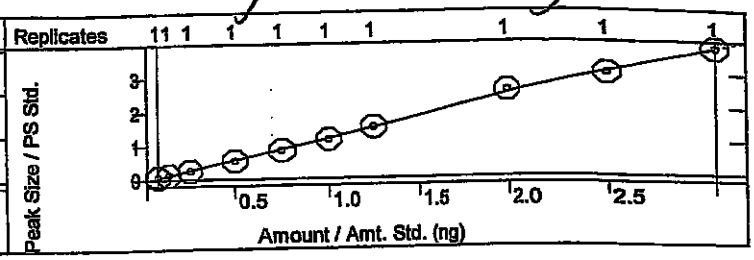
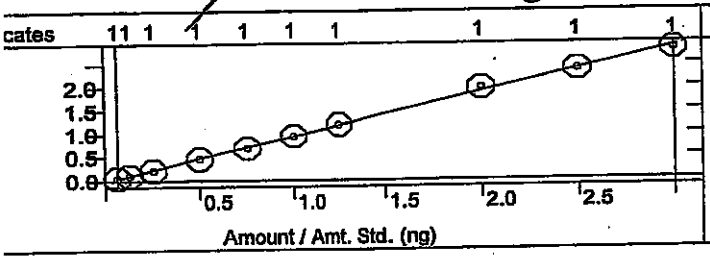
ene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
+0.0803x2 +0.7448x -0.0135



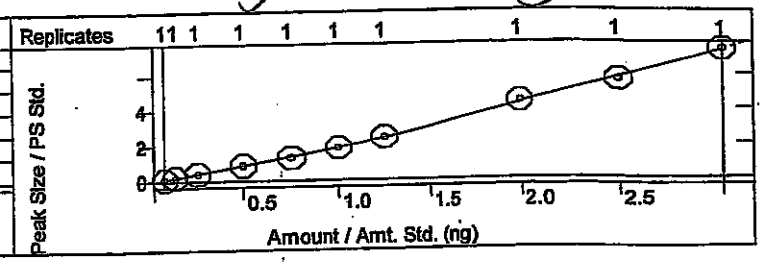
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



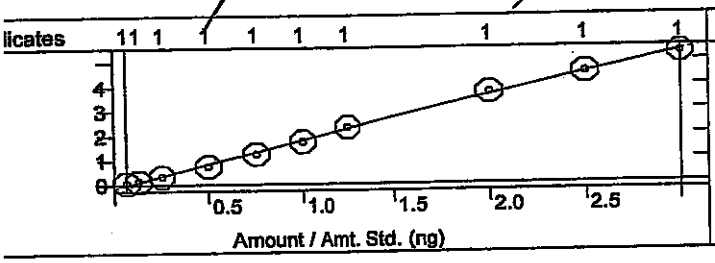
yl benzyl phthalate
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
+0.9570x -0.0113



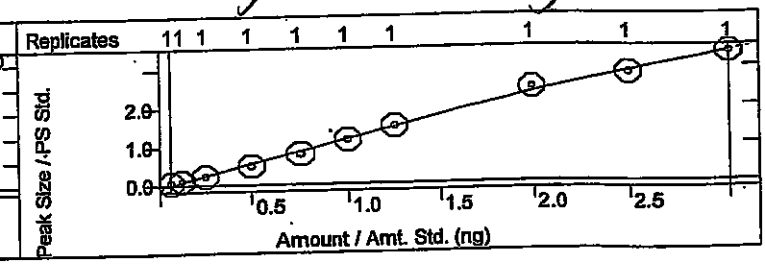
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



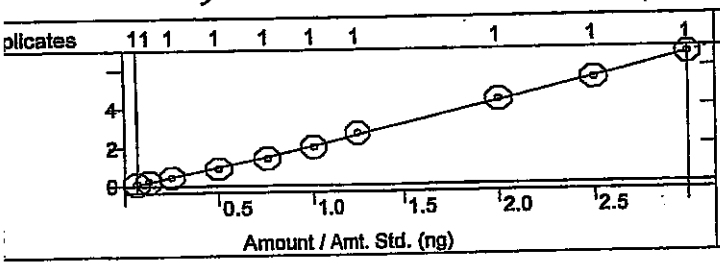
nz[a]anthracene
ırve Fit: Quadratic, Origin: Ignore, Weight: None
ısp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
: -0.0513x2 +1.9860x -0.1374



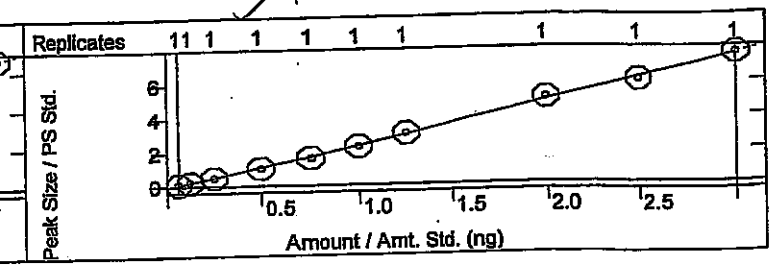
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



hrysene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
= +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



ibration Curves Report

iod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
iple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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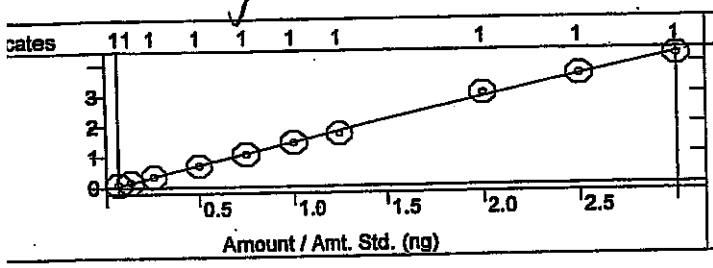
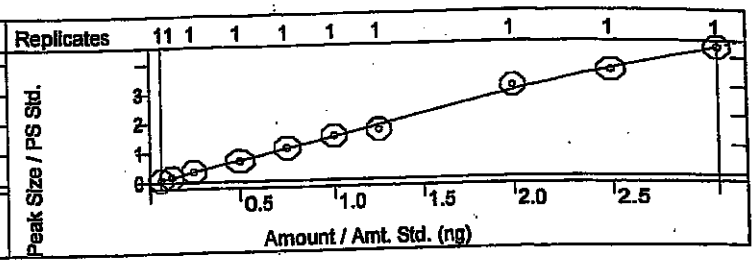
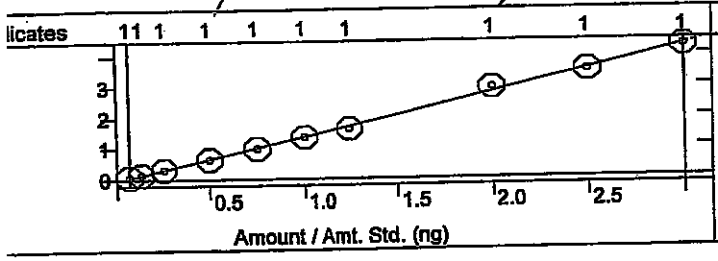
izo(b)fluoranthene
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
-0.0187x2 +1.5058x -0.0450



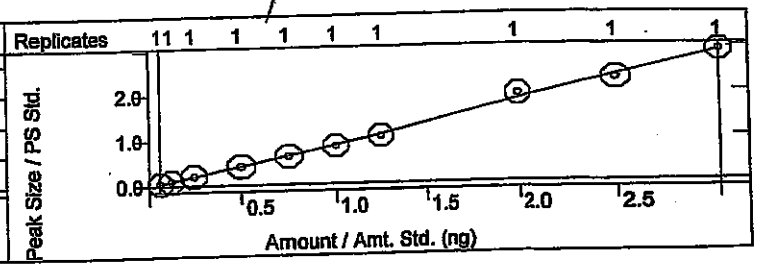
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4795x -0.0270



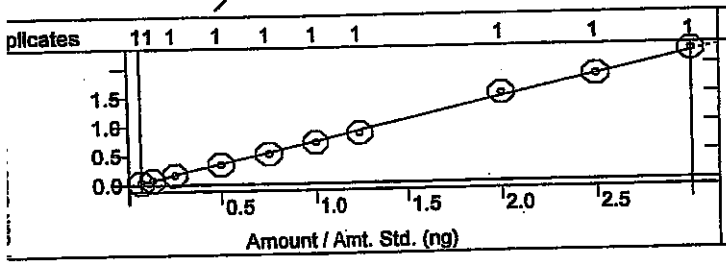
nzo[a]pyrene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
: +0.0286x2 +1.3562x -0.0307



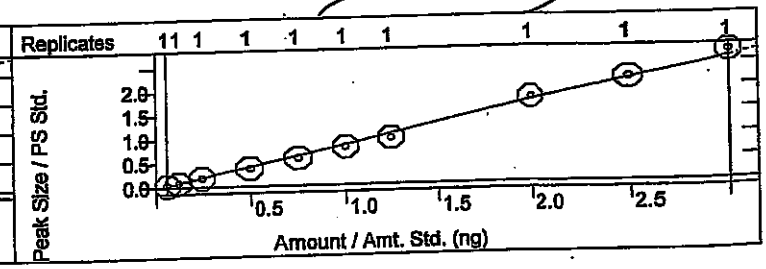
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



ibenz[a,h]anthracene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
= +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: ELMO | Cal. Sample Date(s): 4/25/2014 | 4/25/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 14:14 | 14:14

GC Column: FactorFour | ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dm 4/29/

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/29/

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dan 4/2

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

4-25-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dm 4/24

50ppm crv.SMS JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

4/25/2014 16:08

50ppm crv.SMS

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TE 4-28-14

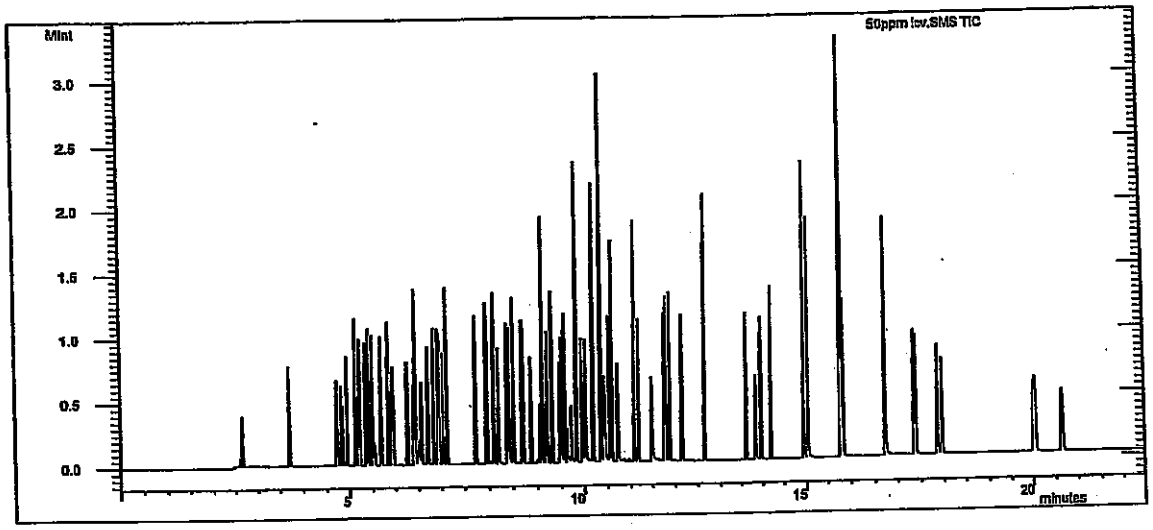
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm Icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

8/25/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408A76**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408A76

Lab ID: 1408A76-001 **Collection Date:** 8/20/2014 3:20:00 PM
Client Sample ID: FFOR-CF-0048 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	17 ✓	0.54		mg/Kg-dry	2	14919	8/25/2014 1:57:21 PM

Lab ID: 1408A76-002 **Collection Date:** 8/20/2014 3:31:00 PM
Client Sample ID: FFOR-CF-0049 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	71 ✓	0.54		mg/Kg-dry	2	14919	8/25/2014 1:58:34 PM

Lab ID: 1408A76-003 **Collection Date:** 8/20/2014 3:40:00 PM
Client Sample ID: FFOR-CF-0050 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/25							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	59 ✓	0.51		mg/Kg-dry	2	14919	8/25/2014 1:59:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 8/22/14

QA'd/Date: DD 8/25/14

Prep Start Date: **8/22/2014 2:27:07 P**
Prep End Date:

Prep Batch ID: **14919** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14919		Soil			1.0149	0	0	50	50.000	8/22/2014	
LCS-14919		Soil			1.0219	0	0	50	50.000	8/22/2014	
1408914-001A	13-006(700) B1@20'	Soil			1.0376	0	0	50	50.000	8/22/2014	
1408914-003A	13-006(700) B3@20'	Soil			1.9812	0	0	50	50.000	8/22/2014	
1408914-006A	13-006(700) B6@15'	Soil			1.0265	0	0	50	50.000	8/22/2014	
1408914-006AMS		Soil			1.9911	0	0	50	50.000	8/22/2014	
1408914-006AMSD		Soil			1.9864	0	0	50	50.000	8/22/2014	
1408914-007A	13-006(700) B7@20'	Soil			1.9834	0	0	50	50.000	8/22/2014	
1408A76-001A	FFOR-CF-0048	MeOH (Soil)			1.9820	0	0	50	50.000	8/22/2014	
1408A76-002A	FFOR-CF-0049	MeOH (Soil)			1.9990	0	0	50	50.000	8/22/2014	
1408A76-003A	FFOR-CF-0050	MeOH (Soil)			1.0079	0	0	50	50.000	8/22/2014	
1408B56-001A	FFOR-CF-0051	MeOH (Soil)			1.9808	0	0	50	50.000	8/22/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 14919	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4706	Tubes 1 12		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1 13		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1 15		HCl /		HCl /
	Filters /		Filters /	4722	Filters 1 1		Filters /		Filters /
				4684	H_2O_2 1 11		TCLP Fluid /		EE Wipes /
				4019	Teflon Chips 1 1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawah Position: D1

Therm ID: DBT-22 Calibration Exp: 8/9/15

Temp: 90.7 °C CF: -0 °C = Corr. Temp: 90.7 °C

Analyst: MD Date/Time: 8/22/14 14:57

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5012 Rm Temp (°C): 21.1 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

_____ Pipette No.: P15 Wt. DI (g): 0.2505 Rm Temp (°C): 21.1 Analyst: MD

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 8/22/14 QA'd/Date: MS 8/25/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20773

ICP-OES Analysis Summary

Instrument: I575

Data Imported By: JNF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 082514 B14914 **Prep Batch ID:** B14914

Calibration

	Standard ID
ST1	ST6010- 14351
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- JNF 8/25/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14337
ICV CAT	ST6010- JNF 8/25/14
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14376

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14257	Custom Spike 1101	100µL	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 50ml 5 Point Wt DI (g): 0.0499 Rm Temp (°C): 21.7 Analyst: JNF

Pipette No: P30 Spike Volume: ~~5 Point~~ JNF 8/25/14 Wt DI (g): 0.5046 Rm Temp (°C): 21.7 Analyst: JNF

Pipette No: P35 Spike Volume: 1ml Wt DI (g): 1.0067 Rm Temp (°C): 21.7 Analyst: JNF

Pipette No: _____ Spike Volume: _____ Wt DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Se	1408B70-003A	0.610185	50	50	5	3.05	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result _____ mg/L

Analyst/Date: JNF 8/25/14 Qa'd by/Date: JNF 8/25/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: JNF and _____.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 080714 6010SOIL

dilutions by impacted analyst- DWF 8/25/14

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	101	MB-14919	Analyzed
17	102	LCS-14919	Analyzed
18	103	MB-14915	Analyzed
19	104	LCS-14915	Analyzed
20	105	MB-14914	Analyzed
21	106	LCS-14914	Analyzed
22	201	LCS DISS 50UL TEST	Analyzed
23	202	LCS DISS (100UL) TEST	Analyzed
24	12	BLANK	
25	12	BLANK	
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	107	1408B70-001A	Analyzed
30	108	1408B70-001AMS	Analyzed
31	109	1408B70-001AMSD	Analyzed
32	110	1408B70-001A 5X	Analyzed
33	111	1408B70-001AMS 5X	Analyzed
34	112	1408B70-001AMSD 5X	Analyzed
35	113	1407B70-002A	Analyzed
36	114	1408A89-001B	Samp Limit Failed
37	115	1408A89-001BMS	Analyzed
38	116	1408A89-001BMSD	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	117	1408B02-001A	Samp Limit Failed
43	118	1408A76-001A	IS Check Failed
44	119	1408A76-002A	IS Check Failed
45	120	1408A76-003A	IS Check Failed
46	121	1408B56-001A	Analyzed
47	122	1408914-001A	Analyzed
48	123	1408914-003A	Analyzed
49	124	1408914-006A	Analyzed
50	125	1408914-006AMS	Analyzed
51	126	1408914-006AMSD	Analyzed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	Analyzed
55	127	1408914-007A	Analyzed

Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
56	128		1408786-001A 5X	Samp Limit Failed
57	129		1408786-001A 50X	Samp Limit Failed
58	12		BLANK	
59	130		1408786-002A 5X	Samp Limit Failed
60	131		1408786-002A 50X	Samp Limit Failed
61	132		1408B70-005APS 5X	Analyzed
62	133		1408A76-001A 2X	Analyzed
63	134		1408A76-002A 2X	Analyzed
64	135		1408A76-003A 2X	Analyzed
65	12		BLANK	Analyzed
66	2	QC	CCV	QC Passed
67	1	QC	CCB	QC Passed
68	3	QC	CCV CAT	Analyzed
69	7	QC	DI RINSE	QC Passed

Sample Information Detail Report
Document Name: 082514 B14914

File Description
Hall Design

Parameters Common to All Samples

Batch ID	082514 B14914
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

* Priority added samples dnf 8/25/14

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14919	MBLK
2	102	LCS-14919	LCS
3	103	MB-14915	MBLK
4	104	LCS-14915	LCS
5	105	MB-14914	MBLK
6	106	LCS-14914	LCS
7	107	1408B70-001A	SAMP
8	108	1408B70-001AMS	MS
9	109	1408B70-001AMSD	MSD
10	110	1408B70-001A 5X	SAMP
11	111	1408B70-001AMS 5X	MS
12	112	1408B70-001AMSD 5X	MSD
13	113	1407B70-002A	SAMP
14	114	1408A89-001B	SAMP
15	115	1408A89-001BMS	MS
16	116	1408A89-001BMSD	MSD
17	117	1408B02-001A	SAMP
18	118	1408A76-001A	SAMP
19	119	1408A76-002A	SAMP
20	120	1408A76-003A	SAMP
21	121	1408B56-001A	SAMP
22	122	1408914-001A	SAMP
23	123	1408914-003A	SAMP
24	124	1408914-006A	SAMP
25	125	1408914-006AMS	MS
26	126	1408914-006AMSD	MSD
27	127	1408914-007A	SAMP
28	128	1408786-001A 5X	SAMP
29	129	1408786-001A 50X	SAMP
30	12	BLANK	
31	130	1408786-002A 5X	SAMP
32	131	1408786-002A 50X	SAMP
33	132	1408B70-005APS 5X	PS
34	133	1408A76-001A 2X	SAMP
35	134	1408A76-002A 2X	SAMP
36	135	1408A76-003A 2X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP	Recovery 1 of 3	
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS	Recovery 1 of 5	
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10	NAVAJO_TOTAL METALS		
11	NAVAJO_TOTAL METALS	Recovery 1 of 10	
12	NAVAJO_TOTAL METALS	Recovery 1 of 10	
13	NAVAJO_TOTAL METALS		
14	METALS_TCLP		
15	METALS_TCLP	Recovery 1 of 14	
16	METALS_TCLP	Recovery 1 of 14	

17	METALS_TCLP	
18	METALS_SOIL	
19	METALS_SOIL	
20	METALS_SOIL	
21	METALS_SOIL	
22	METALS_SOIL	
23	METALS_SOIL	
24	METALS_SOIL	
25	METALS_SOIL	Recovery 1 of 24
26	METALS_SOIL	Recovery 1 of 24
27	METALS_SOIL	
28	METALS_SOIL	
29	METALS_SOIL	
30		
31	METALS_SOIL	
32	METALS_SOIL	
33	NAVAJO_TOTAL METALS	Recovery 1 of 10
34	METALS_SOIL	
35	METALS_SOIL	
36	METALS_SOIL	

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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25			
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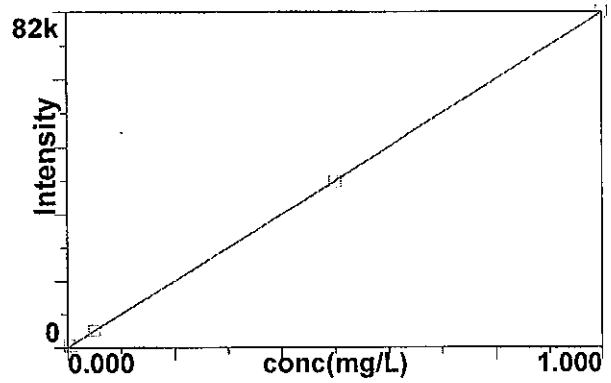
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			

Method: ISIS 080714 6010SOIL
Result: 082514 B14914

Ag 328.068



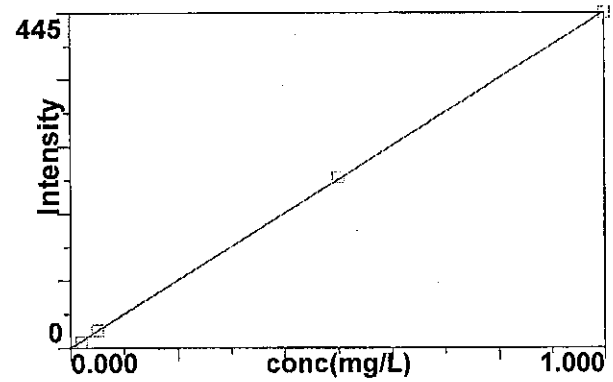
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

1

Al 396.153

2

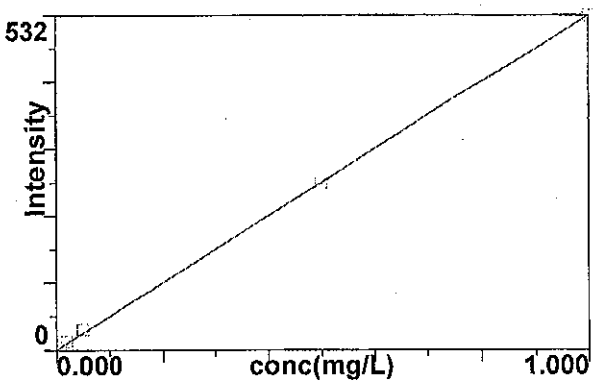
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999972

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999939

4

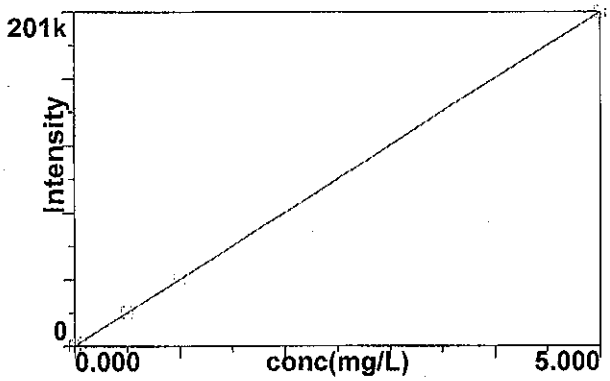
B 249.772

5

B 249.677

6

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

7

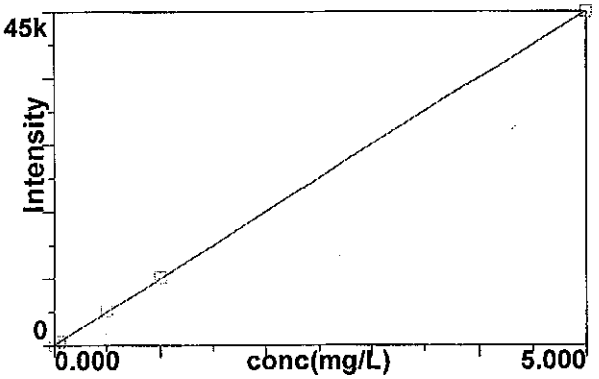
Be 313.107

8

Ca 317.933

9

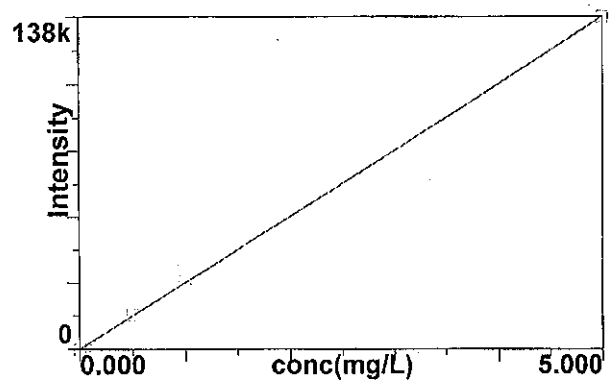
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

10

Cd 226.502



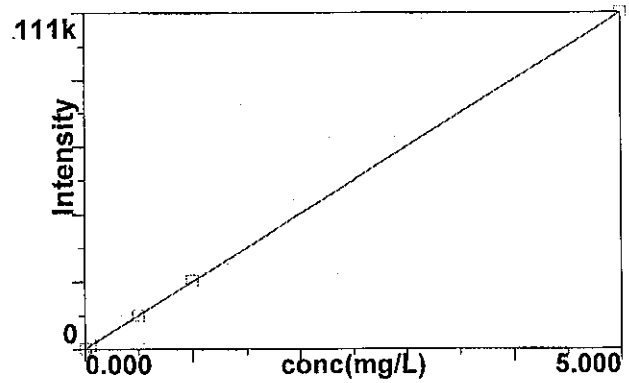
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

11

Co 228.616

12

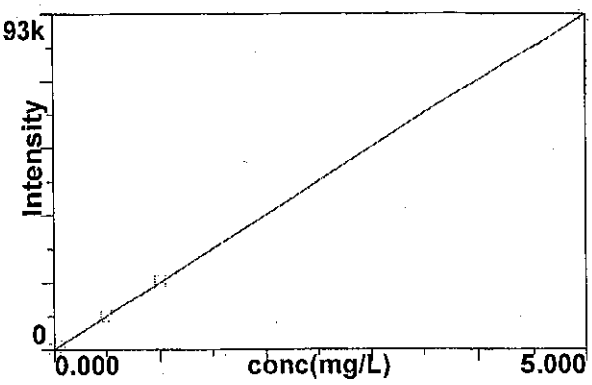
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

Mg 285.213

18

Mn 257.610

19

Mo 202.031

20

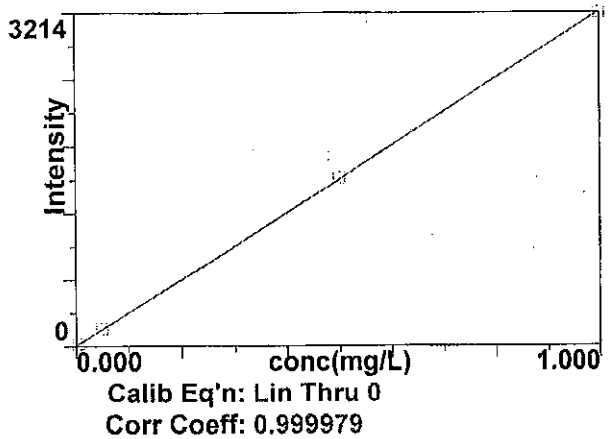
Na 589.592

21

Ni 231.604

22

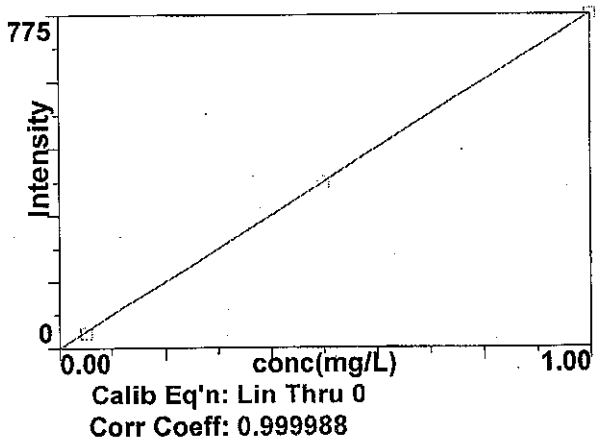
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999979

23

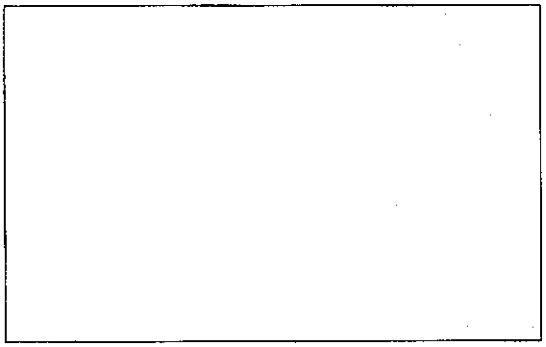
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999988

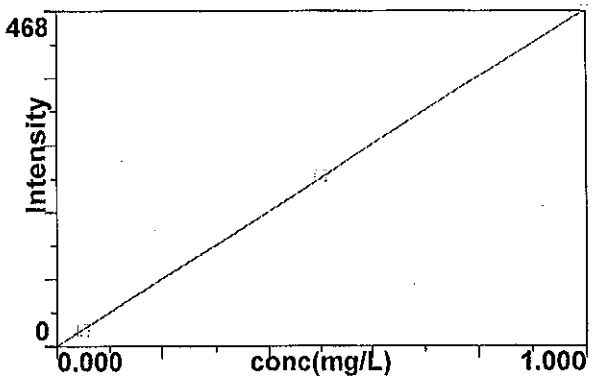
24

Sb 206.836



25

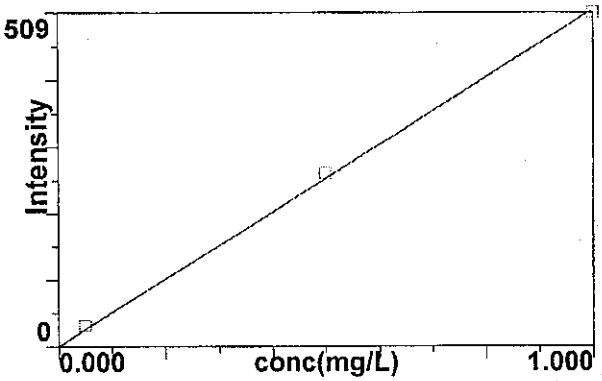
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999970

26

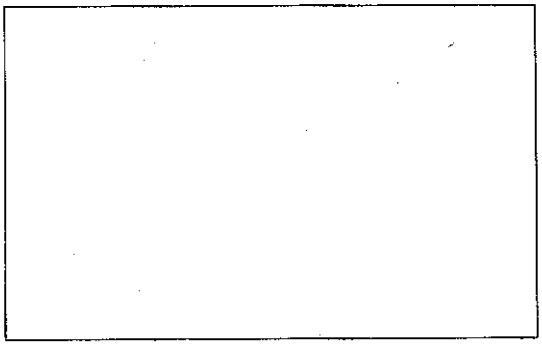
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999789

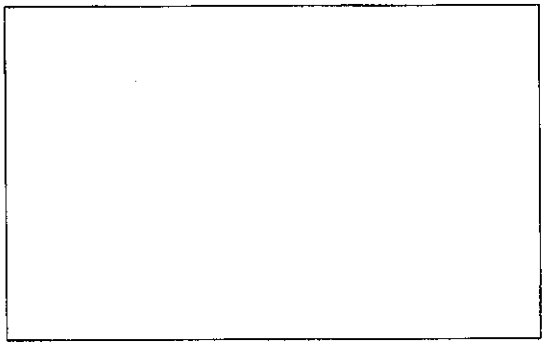
27

Si 212.412



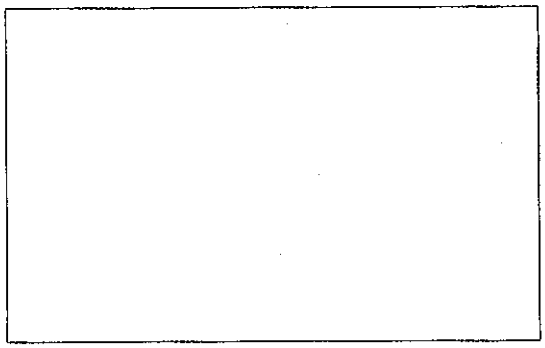
28

Sn 189.927



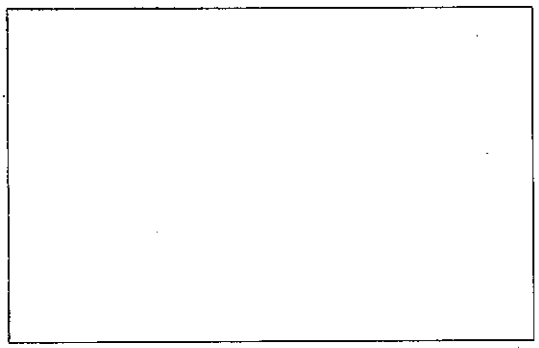
29

Ti 334.940



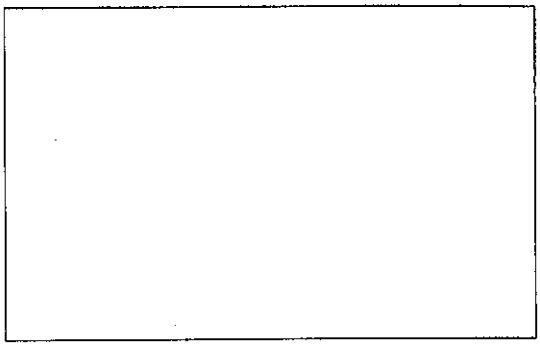
30

Tl 190.801



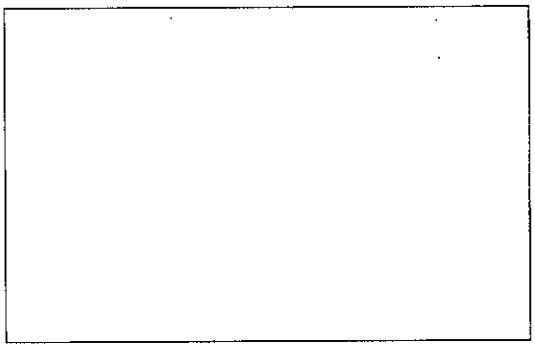
31

U 385.958



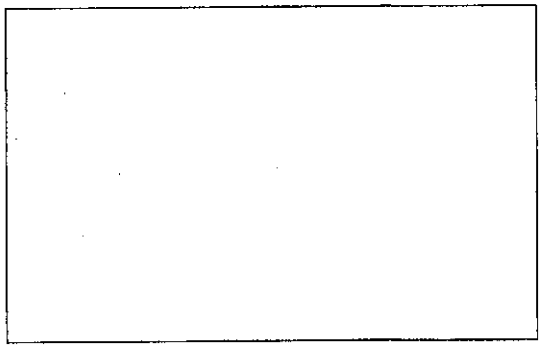
32

V 292.402



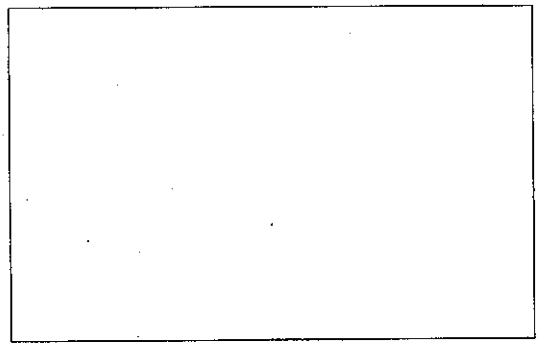
33

Zn 206.200



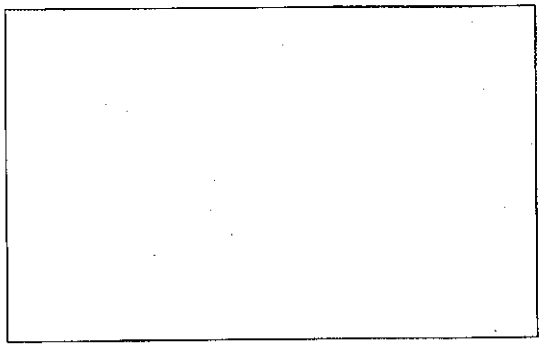
36

Sr 421.552



37

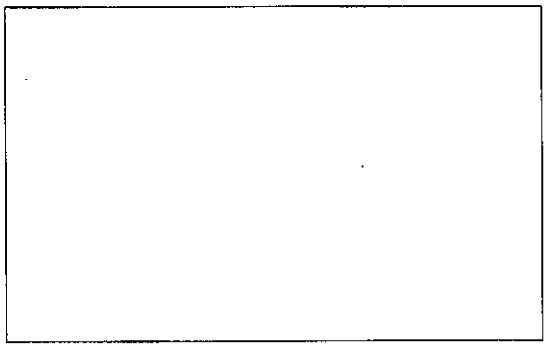
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 082514 B14914

U 424.167



39

Analysis Begun

Start Time: 8/25/2014 12:50:29 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/25/2014 12:50:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	519852.3	10693.47	2.06%	100.00	%
Ag 328.068†	36.9	19.01	51.56%	[0.00]	mg/L
As 188.979†	8.7	4.52	52.17%	[0.00]	mg/L
As 193.696†	-7.4	1.56	21.15%	[0.00]	mg/L
Ba 233.527†	1.4	9.69	688.16%	[0.00]	mg/L
Cd 228.802†	-15.2	2.64	17.36%	[0.00]	mg/L
Cd 226.502†	31.0	0.62	2.01%	[0.00]	mg/L
Cr 267.716†	-6.9	14.87	216.11%	[0.00]	mg/L
Cr 205.560†	-29.5	13.22	44.78%	[0.00]	mg/L
Pb 220.353†	-24.3	6.08	24.97%	[0.00]	mg/L
Pb 217.000†	12.6	10.48	83.27%	[0.00]	mg/L
Se 203.985†	2.1	9.95	466.53%	[0.00]	mg/L
Se 196.026†	-15.6	1.14	7.32%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/25/2014 12:51:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	502074.3	734.40	0.15%	96.580	%
Ag 328.068†	431.1	10.97	2.54%	[0.005]	mg/L
As 188.979†	7.6	1.68	22.04%	[0.02]	mg/L
As 193.696†	13.9	1.11	7.99%	[0.02]	mg/L
Ba 233.527†	97.3	4.40	4.52%	[0.002]	mg/L
Cd 228.802†	18.4	3.05	16.58%	[0.002]	mg/L
Cd 226.502†	50.7	3.66	7.21%	[0.002]	mg/L
Cr 267.716†	135.3	5.48	4.05%	[0.006]	mg/L
Cr 205.560†	103.2	9.12	8.84%	[0.006]	mg/L

Pb 220.353†	20.9	6.37	30.48%	[0.005] mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 8/25/2014 12:53:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	506786.3	3627.00	0.72%	97.487	%
Ag 328.068†	4109.4	37.24	0.91%	[0.05]	mg/L
As 188.979†	23.1	2.22	9.64%	[0.050]	mg/L
As 193.696†	32.3	0.24	0.75%	[0.050]	mg/L
Ba 233.527†	2078.5	27.95	1.34%	[0.05]	mg/L
Cd 228.802†	466.4	3.35	0.72%	[0.05]	mg/L
Cd 226.502†	1425.1	9.16	0.64%	[0.05]	mg/L
Cr 267.716†	1154.1	12.45	1.08%	[0.05]	mg/L
Cr 205.560†	959.4	3.12	0.33%	[0.05]	mg/L
Pb 220.353†	168.6	3.26	1.94%	[0.05]	mg/L
Pb 217.000†	34.7	5.46	15.74%	[0.05]	mg/L
Se 203.985†	22.7	7.33	32.27%	[0.050]	mg/L
Se 196.026†	32.2	4.03	12.51%	[0.050]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 12:54:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	507572.0	3623.13	0.71%	97.638	%
Ag 328.068†	40797.0	62.34	0.15%	[0.50]	mg/L
As 188.979†	226.4	3.97	1.75%	[0.50]	mg/L
As 193.696†	265.4	5.04	1.90%	[0.50]	mg/L
Ba 233.527†	20369.7	36.88	0.18%	[0.50]	mg/L
Cd 228.802†	4616.4	52.11	1.13%	[0.50]	mg/L
Cd 226.502†	14036.3	7.68	0.05%	[0.50]	mg/L
Cr 267.716†	11221.7	42.22	0.38%	[0.50]	mg/L
Cr 205.560†	9436.9	115.34	1.22%	[0.50]	mg/L
Pb 220.353†	1631.6	13.59	0.83%	[0.50]	mg/L
Pb 217.000†	388.5	11.77	3.03%	[0.50]	mg/L
Se 203.985†	238.7	5.42	2.27%	[0.50]	mg/L
Se 196.026†	265.4	7.85	2.96%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 410
Date Collected: 8/25/2014 12:55:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	514515.9	1499.41	0.29%	98.973	%
Ag 328.068†	82051.5	77.71	0.09%	[1.00]	mg/L
As 188.979†	445.1	2.20	0.49%	[1.00]	mg/L
As 193.696†	531.9	7.83	1.47%	[1.00]	mg/L
Ba 233.527†	40965.0	38.67	0.09%	[1.00]	mg/L
Cd 228.802†	9142.9	85.23	0.93%	[1.00]	mg/L
Cd 226.502†	28220.8	50.96	0.18%	[1.00]	mg/L
Cr 267.716†	22531.1	1.75	0.01%	[1.00]	mg/L
Cr 205.560†	18909.4	43.18	0.23%	[1.00]	mg/L
Pb 220.353†	3214.4	29.36	0.91%	[1.00]	mg/L
Pb 217.000†	775.0	0.31	0.04%	[1.00]	mg/L
Se 203.985†	468.5	7.02	1.50%	[1.00]	mg/L
Se 196.026†	508.8	9.75	1.92%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 8/25/2014 12:56:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	525876.1	986.32	0.19%	101.16	%
Ba 233.527†	200782.4	412.35	0.21%	[5.00]	mg/L
Cd 228.802†	44937.5	114.59	0.25%	[5.00]	mg/L
Cd 226.502†	138285.4	314.00	0.23%	[5.00]	mg/L
Cr 267.716†	110982.6	370.22	0.33%	[5.00]	mg/L
Cr 205.560†	92957.4	295.17	0.32%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	81960	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	446.7	0.00000	0.999972	
As 193.696	4	Lin Thru 0	0.0	532.0	0.00000	0.999939	
Ba 233.527	5	Lin Thru 0	0.0	40190	0.00000	0.999992	
Cd 228.802	5	Lin Thru 0	0.0	8996	0.00000	0.999991	
Cd 226.502	5	Lin Thru 0	0.0	27680	0.00000	0.999991	
Cr 267.716	5	Lin Thru 0	0.0	22210	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	18610	0.00000	0.999994	
Pb 220.353	4	Lin Thru 0	0.0	3224	0.00000	0.999979	
Pb 217.000	3	Lin Thru 0	0.0	775.2	0.00000	0.999988	
Se 203.985	3	Lin Thru 0	0.0	470.2	0.00000	0.999970	
Se 196.026	3	Lin Thru 0	0.0	513.5	0.00000	0.999789	

User canceled analysis.

Analysis Begun

Start Time: 8/25/2014 12:57:51 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 401
Date Collected: 8/25/2014 12:57:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	514547.4	98.980	%	0.2398				0.24%
Ag 328.068†	40679.0	0.49632	mg/L	0.000774	0.49632	mg/L	0.000774	0.16%
QC value within limits for Ag 328.068 Recovery = 99.26%								
As 188.979†	224.5	0.50262	mg/L	0.012230	0.50262	mg/L	0.012230	2.43%
QC value within limits for As 188.979 Recovery = 100.52%								
As 193.696†	265.4	0.49883	mg/L	0.015262	0.49883	mg/L	0.015262	3.06%
Ba 233.527†	20396.2	0.50746	mg/L	0.001349	0.50746	mg/L	0.001349	0.27%
QC value within limits for Ba 233.527 Recovery = 101.49%								
Cd 228.802†	4542.0	0.50491	mg/L	0.004960	0.50491	mg/L	0.004960	0.98%
QC value within limits for Cd 228.802 Recovery = 100.98%								
Cd 226.502†	13986.7	0.50525	mg/L	0.001743	0.50525	mg/L	0.001743	0.35%
Cr 267.716†	11126.7	0.50094	mg/L	0.000453	0.50094	mg/L	0.000453	0.09%
Cr 205.560†	9270.4	0.49824	mg/L	0.006136	0.49824	mg/L	0.006136	1.23%
QC value within limits for Cr 205.560 Recovery = 99.65%								
Pb 220.353†	1627.9	0.50485	mg/L	0.000732	0.50485	mg/L	0.000732	0.14%
QC value within limits for Pb 220.353 Recovery = 100.97%								
Pb 217.000†	393.4	0.50741	mg/L	0.008585	0.50741	mg/L	0.008585	1.69%
Se 203.985†	231.5	0.49235	mg/L	0.011594	0.49235	mg/L	0.011594	2.35%
Se 196.026†	265.7	0.51747	mg/L	0.012978	0.51747	mg/L	0.012978	2.51%
QC value within limits for Se 196.026 Recovery = 103.49%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/25/2014 12:59:07 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 1
Date Collected: 8/25/2014 12:59:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	535271.2	102.97	%	1.585				1.54%
Ag 328.068†	-16.2	-0.00020	mg/L	0.000227	-0.00020	mg/L	0.000227	114.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.4	-0.00091	mg/L	0.003504	-0.00091	mg/L	0.003504	383.87%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.6	-0.00485	mg/L	0.003199	-0.00485	mg/L	0.003199	66.02%
Ba 233.527†	9.1	0.00023	mg/L	0.000108	0.00023	mg/L	0.000108	47.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.7	-0.00008	mg/L	0.000402	-0.00008	mg/L	0.000402	484.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-3.8	-0.00014	mg/L	0.000097	-0.00014	mg/L	0.000097	70.90%
Cr 267.716†	1.1	0.00005	mg/L	0.000328	0.00005	mg/L	0.000328	669.34%
Cr 205.560†	-3.9	-0.00021	mg/L	0.000666	-0.00021	mg/L	0.000666	320.60%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	6.1	0.00191	mg/L	0.001669	0.00191	mg/L	0.001669	87.62%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	0.3	0.00040	mg/L	0.003462	0.00040	mg/L	0.003462	864.12%
Se 203.985†	-3.5	-0.00745	mg/L	0.015489	-0.00745	mg/L	0.015489	207.77%
Se 196.026†	6.3	0.01230	mg/L	0.011089	0.01230	mg/L	0.011089	90.14%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/25/2014 1:00:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	512068.1	98.503	%	0.7115				0.72%
Ag 328.068†	415.0	0.00506	mg/L	0.000121	0.00506	mg/L	0.000121	2.38%
QC value within limits for Ag 328.068 Recovery = 101.28%								
As 188.979†	5.1	0.01146	mg/L	0.005613	0.01146	mg/L	0.005613	48.97%
QC value within limits for As 188.979 Recovery = 57.31%								
As 193.696†	7.6	0.01436	mg/L	0.009213	0.01436	mg/L	0.009213	64.18%
Ba 233.527†	98.8	0.00246	mg/L	0.000314	0.00246	mg/L	0.000314	12.78%
QC value within limits for Ba 233.527 Recovery = 122.95%								
Cd 228.802†	18.5	0.00206	mg/L	0.000251	0.00206	mg/L	0.000251	12.22%
QC value within limits for Cd 228.802 Recovery = 102.77%								
Cd 226.502†	46.6	0.00168	mg/L	0.000071	0.00168	mg/L	0.000071	4.22%
Cr 267.716†	143.2	0.00645	mg/L	0.000361	0.00645	mg/L	0.000361	5.59%
Cr 205.560†	115.1	0.00619	mg/L	0.000671	0.00619	mg/L	0.000671	10.84%
QC value within limits for Cr 205.560 Recovery = 103.13%								
Pb 220.353†	19.3	0.00600	mg/L	0.002546	0.00600	mg/L	0.002546	42.44%
QC value within limits for Pb 220.353 Recovery = 120.00%								
Pb 217.000†	0.1	0.00013	mg/L	0.007637	0.00013	mg/L	0.007637	>999.9%
Se 203.985†	21.6	0.04601	mg/L	0.007159	0.04601	mg/L	0.007159	15.56%
Se 196.026†	34.9	0.06793	mg/L	0.005131	0.06793	mg/L	0.005131	7.55%
QC value within limits for Se 196.026 Recovery = 135.86%								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 8/25/2014 1:01:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	517707.1	99.587	%	0.4319				0.43%
Ag 328.068†	42144.9	0.51421	mg/L	0.000814	0.51421	mg/L	0.000814	0.16%
QC value within limits for Ag 328.068 Recovery = 102.84%								
As 188.979†	238.7	0.53433	mg/L	0.003741	0.53433	mg/L	0.003741	0.70%
QC value within limits for As 188.979 Recovery = 106.87%								
As 193.696†	232.4	0.43684	mg/L	0.018921	0.43684	mg/L	0.018921	4.33%
Ba 233.527†	20298.2	0.50502	mg/L	0.001448	0.50502	mg/L	0.001448	0.29%
QC value within limits for Ba 233.527 Recovery = 101.00%								
Cd 228.802†	4767.7	0.52999	mg/L	0.002749	0.52999	mg/L	0.002749	0.52%
QC value within limits for Cd 228.802 Recovery = 106.00%								
Cd 226.502†	14260.0	0.51513	mg/L	0.000517	0.51513	mg/L	0.000517	0.10%
Cr 267.716†	11072.8	0.49851	mg/L	0.000993	0.49851	mg/L	0.000993	0.20%
Cr 205.560†	9225.9	0.49585	mg/L	0.003252	0.49585	mg/L	0.003252	0.66%
QC value within limits for Cr 205.560 Recovery = 99.17%								
Pb 220.353†	1579.5	0.48985	mg/L	0.007782	0.48985	mg/L	0.007782	1.59%
QC value within limits for Pb 220.353 Recovery = 97.97%								
Pb 217.000†	405.2	0.52262	mg/L	0.015871	0.52262	mg/L	0.015871	3.04%
Se 203.985†	239.9	0.51019	mg/L	0.018660	0.51019	mg/L	0.018660	3.66%
Se 196.026†	272.4	0.53059	mg/L	0.012337	0.53059	mg/L	0.012337	2.33%
QC value within limits for Se 196.026 Recovery = 106.12%								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 8/25/2014 1:02:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	514702.8	99.009	%	0.8940				0.90%
Ag 328.068†	19.9	0.00024	mg/L	0.000220	0.00024	mg/L	0.000220	90.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.7	0.00594	mg/L	0.009685	0.00594	mg/L	0.009685	163.17%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-44.7	-0.08397	mg/L	0.006855	-0.08397	mg/L	0.006855	8.16%
Ba 233.527†	29.0	0.00072	mg/L	0.000116	0.00072	mg/L	0.000116	16.10%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-7.5	-0.00084	mg/L	0.000387	-0.00084	mg/L	0.000387	46.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-11.3	-0.00041	mg/L	0.000099	-0.00041	mg/L	0.000099	24.30%
Cr 267.716†	13.9	0.00063	mg/L	0.000345	0.00063	mg/L	0.000345	55.00%
Cr 205.560†	-63.8	-0.00343	mg/L	0.000156	-0.00343	mg/L	0.000156	4.57%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-30.7	-0.00951	mg/L	0.002343	-0.00951	mg/L	0.002343	24.63%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	9.1	0.01170 mg/L	0.004239	0.01170 mg/L	0.004239	36.23%
Se 203.985†	-28.7	-0.06114 mg/L	0.012539	-0.06114 mg/L	0.012539	20.51%
Se 196.026†	-6.5	-0.01260 mg/L	0.004439	-0.01260 mg/L	0.004439	35.22%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-14919
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 101
Date Collected: 8/25/2014 1:04:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14919

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: MB-14919

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	510806.4	98.260	%	0.5762				0.59%
Ag 328.068†	-9.4	-0.00012	mg/L	0.000070	-0.00012	mg/L	0.000070	60.41%
As 188.979†	-1.9	-0.00435	mg/L	0.014244	-0.00435	mg/L	0.014244	327.32%
As 193.696†	1.3	0.00249	mg/L	0.000869	0.00249	mg/L	0.000869	34.92%
Ba 233.527†	37.3	0.00093	mg/L	0.000574	0.00093	mg/L	0.000574	61.85%
Cd 228.802†	1.0	0.00011	mg/L	0.000274	0.00011	mg/L	0.000274	239.65%
Cd 226.502†	-11.7	-0.00042	mg/L	0.000139	-0.00042	mg/L	0.000139	32.96%
Cr 267.716†	13.2	0.00060	mg/L	0.000300	0.00060	mg/L	0.000300	50.28%
Cr 205.560†	-15.1	-0.00081	mg/L	0.000394	-0.00081	mg/L	0.000394	48.60%
Pb 220.353†	4.0	0.00125	mg/L	0.001077	0.00125	mg/L	0.001077	86.09%
Pb 217.000†	-3.4	-0.00436	mg/L	0.014115	-0.00436	mg/L	0.014115	323.88%
Se 203.985†	-3.2	-0.00674	mg/L	0.016211	-0.00674	mg/L	0.016211	240.41%
Se 196.026†	7.7	0.01506	mg/L	0.008111	0.01506	mg/L	0.008111	53.85%

Sequence No.: 17
Sample ID: LCS-14919
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 102
Date Collected: 8/25/2014 1:05:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14919

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS-14919

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	497906.9	95.779	%	0.9059				0.95%
Ag 328.068†	41339.2	0.50438	mg/L	0.001679	0.50438	mg/L	0.001679	0.33%
As 188.979†	225.7	0.50529	mg/L	0.002628	0.50529	mg/L	0.002628	0.52%
As 193.696†	263.5	0.49526	mg/L	0.005757	0.49526	mg/L	0.005757	1.16%
Ba 233.527†	20016.5	0.49801	mg/L	0.001123	0.49801	mg/L	0.001123	0.23%
Cd 228.802†	4509.3	0.50126	mg/L	0.002938	0.50126	mg/L	0.002938	0.59%
Cd 226.502†	13576.1	0.49042	mg/L	0.000469	0.49042	mg/L	0.000469	0.10%
Cr 267.716†	11242.5	0.50615	mg/L	0.001128	0.50615	mg/L	0.001128	0.22%
Cr 205.560†	9394.0	0.50488	mg/L	0.002128	0.50488	mg/L	0.002128	0.42%
Pb 220.353†	1566.4	0.48579	mg/L	0.002619	0.48579	mg/L	0.002619	0.54%
Pb 217.000†	379.2	0.48913	mg/L	0.001322	0.48913	mg/L	0.001322	0.27%
Se 203.985†	208.7	0.44386	mg/L	0.016914	0.44386	mg/L	0.016914	3.81%
Se 196.026†	240.6	0.46859	mg/L	0.008634	0.46859	mg/L	0.008634	1.84%

Matrix Recovery Check: LCS-14919

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09988	0.50438	0.002	mg/L	504.5
As 188.979	0.49565	0.50529	0.003	mg/L	101.9
As 193.696	0.50249	0.49526	0.006	mg/L	98.6
Ba 233.527	0.50093	0.49801	0.001	mg/L	99.4
Cd 228.802	0.50011	0.50126	0.003	mg/L	100.2
Cd 226.502	0.49958	0.49042	0.000	mg/L	98.2
Cr 267.716	0.50060	0.50615	0.001	mg/L	101.1
Cr 205.560	0.49919	0.50488	0.002	mg/L	101.1
Pb 220.353	0.50125	0.48579	0.003	mg/L	96.9
Pb 217.000	0.49564	0.48913	0.001	mg/L	98.7
Se 203.985	0.49326	0.44386	0.017	mg/L	90.1
Se 196.026	0.51506	0.46859	0.009	mg/L	90.7

Sequence No.: 18
Sample ID: MB-14915
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 103
Date Collected: 8/25/2014 1:06:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14915

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: MB-14915

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	491752.2	94.595	%	1.0984				1.16%
Ag 328.068†	-14.9	-0.00018	mg/L	0.000298	-0.00018	mg/L	0.000298	163.98%
As 188.979†	3.5	0.00785	mg/L	0.002462	0.00785	mg/L	0.002462	31.37%
As 193.696†	0.8	0.00148	mg/L	0.002357	0.00148	mg/L	0.002357	159.38%
Ba 233.527†	27.9	0.00069	mg/L	0.000310	0.00069	mg/L	0.000310	44.66%
Cd 228.802†	-0.9	-0.00010	mg/L	0.000591	-0.00010	mg/L	0.000591	585.98%
Cd 226.502†	-4.7	-0.00017	mg/L	0.000166	-0.00017	mg/L	0.000166	96.98%
Cr 267.716†	12.4	0.00056	mg/L	0.000354	0.00056	mg/L	0.000354	63.18%
Cr 205.560†	9.3	0.00050	mg/L	0.000423	0.00050	mg/L	0.000423	84.61%
Pb 220.353†	1.7	0.00051	mg/L	0.000998	0.00051	mg/L	0.000998	194.44%
Pb 217.000†	-4.4	-0.00573	mg/L	0.005343	-0.00573	mg/L	0.005343	93.19%
Se 203.985†	-9.2	-0.01957	mg/L	0.013755	-0.01957	mg/L	0.013755	70.28%
Se 196.026†	-0.1	-0.00021	mg/L	0.013202	-0.00021	mg/L	0.013202	>999.9%

Sequence No.: 19
Sample ID: LCS-14915
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 104
Date Collected: 8/25/2014 1:07:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14915

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS-14915

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	487410.8	93.759	%	0.5573				0.59%
Ag 328.068†	43953.8	0.53628	mg/L	0.000818	0.53628	mg/L	0.000818	0.15%
As 188.979†	246.5	0.55182	mg/L	0.002055	0.55182	mg/L	0.002055	0.37%
As 193.696†	284.8	0.53540	mg/L	0.007266	0.53540	mg/L	0.007266	1.36%
Ba 233.527†	19703.6	0.49022	mg/L	0.000735	0.49022	mg/L	0.000735	0.15%
Cd 228.802†	4772.8	0.53056	mg/L	0.003399	0.53056	mg/L	0.003399	0.64%

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS DISS (100UL) TEST

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS DISS (100UL) TEST

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	521026.3	100.23	%	0.613				0.61%
Ag 328.068†	7324.9	0.08937	mg/L	0.000301	0.08937	mg/L	0.000301	0.34%
As 188.979†	229.7	0.51430	mg/L	0.006763	0.51430	mg/L	0.006763	1.31%
As 193.696†	274.7	0.51642	mg/L	0.009985	0.51642	mg/L	0.009985	1.93%
Ba 233.527†	20447.9	0.50874	mg/L	0.001616	0.50874	mg/L	0.001616	0.32%
Cd 228.802†	4782.1	0.53160	mg/L	0.001849	0.53160	mg/L	0.001849	0.35%
Cd 226.502†	14519.7	0.52451	mg/L	0.001424	0.52451	mg/L	0.001424	0.27%
Cr 267.716†	11224.6	0.50535	mg/L	0.000848	0.50535	mg/L	0.000848	0.17%
Cr 205.560†	9416.9	0.50611	mg/L	0.002074	0.50611	mg/L	0.002074	0.41%
Pb 220.353†	1646.3	0.51058	mg/L	0.004808	0.51058	mg/L	0.004808	0.94%
Pb 217.000†	401.8	0.51835	mg/L	0.010783	0.51835	mg/L	0.010783	2.08%
Se 203.985†	265.7	0.56515	mg/L	0.019016	0.56515	mg/L	0.019016	3.36%
Se 196.026†	283.4	0.55201	mg/L	0.010698	0.55201	mg/L	0.010698	1.94%

User canceled analysis.

==========

Analysis Begun

Start Time: 8/25/2014 1:14:04 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 2
Date Collected: 8/25/2014 1:14:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	521053.2	100.23	%	0.677				0.68%
Ag 328.068†	41230.7	0.50306	mg/L	0.000303	0.50306	mg/L	0.000303	0.06%
QC value within limits for Ag 328.068 Recovery = 100.61%								
As 188.979†	226.0	0.50592	mg/L	0.014284	0.50592	mg/L	0.014284	2.82%
QC value within limits for As 188.979 Recovery = 101.18%								
As 193.696†	271.6	0.51047	mg/L	0.010401	0.51047	mg/L	0.010401	2.04%
Ba 233.527†	20696.4	0.51493	mg/L	0.001140	0.51493	mg/L	0.001140	0.22%
QC value within limits for Ba 233.527 Recovery = 102.99%								
Cd 228.802†	4659.3	0.51795	mg/L	0.004958	0.51795	mg/L	0.004958	0.96%
QC value within limits for Cd 228.802 Recovery = 103.59%								
Cd 226.502†	14302.1	0.51665	mg/L	0.001786	0.51665	mg/L	0.001786	0.35%
Cr 267.716†	11383.0	0.51248	mg/L	0.000844	0.51248	mg/L	0.000844	0.16%
Cr 205.560†	9542.8	0.51288	mg/L	0.004940	0.51288	mg/L	0.004940	0.96%
QC value within limits for Cr 205.560 Recovery = 102.58%								

Pb 220.353†	1649.5	0.51155 mg/L	0.004725	0.51155 mg/L	0.004725	0.92%
QC value within limits for Pb 220.353 Recovery = 102.31%						
Pb 217.000†	392.8	0.50671 mg/L	0.010929	0.50671 mg/L	0.010929	2.16%
Se 203.985†	236.3	0.50253 mg/L	0.014994	0.50253 mg/L	0.014994	2.98%
Se 196.026†	266.9	0.51988 mg/L	0.011886	0.51988 mg/L	0.011886	2.29%
QC value within limits for Se 196.026 Recovery = 103.98%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 1:15:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	525933.9	101.17	%	0.496				0.49%
Ag 328.068†	15.7	0.00019	mg/L	0.000165	0.00019	mg/L	0.000165	86.14%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.3	0.00060	mg/L	0.003535	0.00060	mg/L	0.003535	591.10%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.6	-0.00294	mg/L	0.009293	-0.00294	mg/L	0.009293	316.53%
Ba 233.527†	1.0	0.00002	mg/L	0.000193	0.00002	mg/L	0.000193	801.31%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.3	0.00015	mg/L	0.000019	0.00015	mg/L	0.000019	12.57%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-3.5	-0.00013	mg/L	0.000176	-0.00013	mg/L	0.000176	139.58%
Cr 267.716†	0.9	0.00004	mg/L	0.000250	0.00004	mg/L	0.000250	647.29%
Cr 205.560†	-7.1	-0.00038	mg/L	0.000587	-0.00038	mg/L	0.000587	154.51%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	3.7	0.00115	mg/L	0.001707	0.00115	mg/L	0.001707	147.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-6.5	-0.00836	mg/L	0.009648	-0.00836	mg/L	0.009648	115.34%
Se 203.985†	4.9	0.01031	mg/L	0.005557	0.01031	mg/L	0.005557	53.88%
Se 196.026†	1.8	0.00354	mg/L	0.012848	0.00354	mg/L	0.012848	363.13%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/25/2014 1:16:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

No CAT JMK 8/25/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	517196.7	99.489	%	0.6628				0.67%
Ag 328.068†	6.1	0.00007	mg/L	0.000173	0.00007	mg/L	0.000173	231.38%
As 188.979†	1.3	0.00301	mg/L	0.002096	0.00301	mg/L	0.002096	69.71%
As 193.696†	-1.7	-0.00329	mg/L	0.001397	-0.00329	mg/L	0.001397	42.51%
Ba 233.527†	8.0	0.00020	mg/L	0.000549	0.00020	mg/L	0.000549	274.41%
Cd 228.802†	1.4	0.00015	mg/L	0.000596	0.00015	mg/L	0.000596	394.76%

Se 196.026	0.48137	0.46355	0.014	mg/L	96.4

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 1:30:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	520538.4	100.13	%	0.355				0.35%
Ag 328.068†	41087.9	0.50131	mg/L	0.000727	0.50131	mg/L	0.000727	0.15%
QC value within limits for Ag 328.068 Recovery = 100.26%								
As 188.979†	226.7	0.50754	mg/L	0.007377	0.50754	mg/L	0.007377	1.45%
QC value within limits for As 188.979 Recovery = 101.51%								
As 193.696†	269.4	0.50645	mg/L	0.001999	0.50645	mg/L	0.001999	0.39%
Ba 233.527†	20690.2	0.51477	mg/L	0.000981	0.51477	mg/L	0.000981	0.19%
QC value within limits for Ba 233.527 Recovery = 102.95%								
Cd 228.802†	4646.0	0.51646	mg/L	0.003372	0.51646	mg/L	0.003372	0.65%
QC value within limits for Cd 228.802 Recovery = 103.29%								
Cd 226.502†	14233.6	0.51417	mg/L	0.000486	0.51417	mg/L	0.000486	0.09%
Cr 267.716†	11345.5	0.51079	mg/L	0.001604	0.51079	mg/L	0.001604	0.31%
Cr 205.560†	9503.6	0.51077	mg/L	0.003056	0.51077	mg/L	0.003056	0.60%
QC value within limits for Cr 205.560 Recovery = 102.15%								
Pb 220.353†	1633.4	0.50656	mg/L	0.005427	0.50656	mg/L	0.005427	1.07%
QC value within limits for Pb 220.353 Recovery = 101.31%								
Pb 217.000†	390.4	0.50355	mg/L	0.008214	0.50355	mg/L	0.008214	1.63%
Se 203.985†	236.3	0.50256	mg/L	0.035507	0.50256	mg/L	0.035507	7.07%
Se 196.026†	264.3	0.51469	mg/L	0.012848	0.51469	mg/L	0.012848	2.50%
QC value within limits for Se 196.026 Recovery = 102.94%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 1:31:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	516043.5	99.267	%	0.4457				0.45%
Ag 328.068†	-6.6	-0.00008	mg/L	0.000087	-0.00008	mg/L	0.000087	108.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-2.0	-0.00437	mg/L	0.009902	-0.00437	mg/L	0.009902	226.72%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.6	0.00110	mg/L	0.005927	0.00110	mg/L	0.005927	536.59%
Ba 233.527†	3.5	0.00009	mg/L	0.000770	0.00009	mg/L	0.000770	888.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.0	0.00022	mg/L	0.000287	0.00022	mg/L	0.000287	130.75%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-2.0	-0.00007	mg/L	0.000180	-0.00007	mg/L	0.000180	250.83%
Cr 267.716†	-2.8	-0.00012	mg/L	0.000124	-0.00012	mg/L	0.000124	99.46%

Cr 205.560†	12.0	0.00065 mg/L	0.000700	0.00065 mg/L	0.000700	108.38%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Pb 220.353†	3.9	0.00120 mg/L	0.000852	0.00120 mg/L	0.000852	70.69%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	-5.9	-0.00766 mg/L	0.004748	-0.00766 mg/L	0.004748	62.00%
Se 203.985†	1.3	0.00287 mg/L	0.010309	0.00287 mg/L	0.010309	359.19%
Se 196.026†	-0.1	-0.00016 mg/L	0.009504	-0.00016 mg/L	0.009504	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

NO CAT JWF 8/25/14

Autosampler Location: 3
Date Collected: 8/25/2014 1:32:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	517002.1	99.452	%	1.0059				1.01%
Ag 328.068†	5.1	0.00006	mg/L	0.000345	0.00006	mg/L	0.000345	549.41%
As 188.979†	-0.5	-0.00101	mg/L	0.007127	-0.00101	mg/L	0.007127	703.80%
As 193.696†	0.7	0.00137	mg/L	0.007180	0.00137	mg/L	0.007180	523.09%
Ba 233.527†	1.7	0.00004	mg/L	0.000236	0.00004	mg/L	0.000236	541.98%
Cd 228.802†	-0.2	-0.00002	mg/L	0.000230	-0.00002	mg/L	0.000230	938.40%
Cd 226.502†	1.0	0.00004	mg/L	0.000160	0.00004	mg/L	0.000160	439.36%
Cr 267.716†	2.1	0.00010	mg/L	0.000278	0.00010	mg/L	0.000278	292.29%
Cr 205.560†	1.4	0.00007	mg/L	0.000299	0.00007	mg/L	0.000299	400.94%
Pb 220.353†	1.6	0.00050	mg/L	0.002081	0.00050	mg/L	0.002081	420.16%
Pb 217.000†	-4.8	-0.00621	mg/L	0.004371	-0.00621	mg/L	0.004371	70.35%
Se 203.985†	4.2	0.00901	mg/L	0.004269	0.00901	mg/L	0.004269	47.38%
Se 196.026†	-2.4	-0.00460	mg/L	0.008814	-0.00460	mg/L	0.008814	191.42%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1408B02-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 117
Date Collected: 8/25/2014 1:33:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408B02-001A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408B02-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	460482.5	88.579	%	0.7286				0.82%
Ag 328.068†	-189.4	-0.00231	mg/L	0.000402	-0.00231	mg/L	0.000402	17.37%
As 188.979†	1.4	0.00321	mg/L	0.003342	0.00321	mg/L	0.003342	104.01%
As 193.696†	-6.8	-0.01276	mg/L	0.010284	-0.01276	mg/L	0.010284	80.58%
Ba 233.527†	33934.6	0.84429	mg/L	0.001535	0.84429	mg/L	0.001535	0.18%
Cd 228.802†	-18.6	-0.00207	mg/L	0.000357	-0.00207	mg/L	0.000357	17.24%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	2.8	0.00010	mg/L	0.000148	0.00010	mg/L	0.000148	148.46%
Cr 267.716†	24.8	0.00112	mg/L	0.000197	0.00112	mg/L	0.000197	17.64%
Cr 205.560†	-27.2	-0.00146	mg/L	0.000503	-0.00146	mg/L	0.000503	34.37%
Pb 220.353†	1.7	0.00053	mg/L	0.002371	0.00053	mg/L	0.002371	444.74%

Pb 217.000†	-11.3	-0.01456 mg/L	0.003487	-0.01456 mg/L	0.003487	23.96%
Se 203.985†	21.3	0.04528 mg/L	0.026021	0.04528 mg/L	0.026021	57.46%
Se 196.026†	-23.1	-0.04500 mg/L	0.019360	-0.04500 mg/L	0.019360	43.02%

Sequence No.: 43 **Autosampler Location: 118**
Sample ID: 1408A76-001A **Date Collected: 8/25/2014 1:35:06 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408A76-001A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	723562.5	139.19	%	1.432				1.03%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 139.2%								
Ag 328.068†	-314.7	-0.00384	mg/L	0.000231	-0.00384	mg/L	0.000231	6.01%
As 188.979†	8.9	0.02002	mg/L	0.010455	0.02002	mg/L	0.010455	52.24%
As 193.696†	-54.4	-0.10217	mg/L	0.005962	-0.10217	mg/L	0.005962	5.84%
Ba 233.527†	62439.1	1.5535	mg/L	0.00101	1.5535	mg/L	0.00101	0.07%
Cd 228.802†	-4.2	-0.00047	mg/L	0.000282	-0.00047	mg/L	0.000282	60.51%
Cd 226.502†	-154.4	-0.00558	mg/L	0.000236	-0.00558	mg/L	0.000236	4.22%
Cr 267.716†	1724.3	0.07763	mg/L	0.001310	0.07763	mg/L	0.001310	1.69%
Cr 205.560†	1176.1	0.06321	mg/L	0.001549	0.06321	mg/L	0.001549	2.45%
Pb 220.353†	803.7	0.24926	mg/L	0.003409	0.24926	mg/L	0.003409	1.37%
Pb 217.000†	224.1	0.28907	mg/L	0.010637	0.28907	mg/L	0.010637	3.68%
Se 203.985†	-8.4	-0.01782	mg/L	0.009213	-0.01782	mg/L	0.009213	51.70%
Se 196.026†	-16.5	-0.03207	mg/L	0.010105	-0.03207	mg/L	0.010105	31.51%
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 44 **Autosampler Location: 119**
Sample ID: 1408A76-002A **Date Collected: 8/25/2014 1:36:19 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408A76-002A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	685453.7	131.86	%	0.200				0.15%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 131.9%								
Ag 328.068†	-373.2	-0.00455	mg/L	0.000390	-0.00455	mg/L	0.000390	8.56%
As 188.979†	30.4	0.06808	mg/L	0.003806	0.06808	mg/L	0.003806	5.59%
As 193.696†	-55.6	-0.10444	mg/L	0.004228	-0.10444	mg/L	0.004228	4.05%
Ba 233.527†	173638.7	4.3201	mg/L	0.00431	4.3201	mg/L	0.00431	0.10%
Cd 228.802†	-11.9	-0.00132	mg/L	0.000427	-0.00132	mg/L	0.000427	32.39%
Cd 226.502†	-167.2	-0.00604	mg/L	0.000213	-0.00604	mg/L	0.000213	3.52%
Cr 267.716†	2178.2	0.09807	mg/L	0.000063	0.09807	mg/L	0.000063	0.06%
Cr 205.560†	1508.1	0.08105	mg/L	0.000609	0.08105	mg/L	0.000609	0.75%
Pb 220.353†	3398.8	1.0541	mg/L	0.00575	1.0541	mg/L	0.00575	0.55%
Pb 217.000†	957.9	1.2357	mg/L	0.01534	1.2357	mg/L	0.01534	1.24%
Se 203.985†	18.2	0.03875	mg/L	0.014297	0.03875	mg/L	0.014297	36.89%
Se 196.026†	-34.7	-0.06766	mg/L	0.025295	-0.06766	mg/L	0.025295	37.38%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 45
Sample ID: 1408A76-003A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 120
Date Collected: 8/25/2014 1:37:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408A76-003A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	641927.6	123.48	%	0.599				0.49%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 123.5%								
Ag 328.068†	-249.2	-0.00304	mg/L	0.000267	-0.00304	mg/L	0.000267	8.78%
As 188.979†	11.1	0.02491	mg/L	0.010651	0.02491	mg/L	0.010651	42.76%
As 193.696†	-62.6	-0.11773	mg/L	0.005140	-0.11773	mg/L	0.005140	4.37%
Ba 233.527†	102071.9	2.5395	mg/L	0.00300	2.5395	mg/L	0.00300	0.12%
Cd 228.802†	-5.4	-0.00060	mg/L	0.000027	-0.00060	mg/L	0.000027	4.53%
Cd 226.502†	-203.8	-0.00736	mg/L	0.000146	-0.00736	mg/L	0.000146	1.98%
Cr 267.716†	2349.6	0.10578	mg/L	0.000914	0.10578	mg/L	0.000914	0.86%
Cr 205.560†	1534.2	0.08246	mg/L	0.000836	0.08246	mg/L	0.000836	1.01%
Pb 220.353†	3110.0	0.96452	mg/L	0.006183	0.96452	mg/L	0.006183	0.64%
Pb 217.000†	852.2	1.0993	mg/L	0.01516	1.0993	mg/L	0.01516	1.38%
Se 203.985†	-1.1	-0.00232	mg/L	0.003477	-0.00232	mg/L	0.003477	149.83%
Se 196.026†	-21.0	-0.04096	mg/L	0.018486	-0.04096	mg/L	0.018486	45.14%
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 46
Sample ID: 1408B56-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 121
Date Collected: 8/25/2014 1:38:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408B56-001A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408B56-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	603737.2	116.14	%	0.624				0.54%
Ag 328.068†	-225.6	-0.00275	mg/L	0.000299	-0.00275	mg/L	0.000299	10.86%
As 188.979†	26.1	0.05853	mg/L	0.008093	0.05853	mg/L	0.008093	13.83%
As 193.696†	-139.6	-0.26238	mg/L	0.003391	-0.26238	mg/L	0.003391	1.29%
Ba 233.527†	65033.2	1.6180	mg/L	0.00436	1.6180	mg/L	0.00436	0.27%
Cd 228.802†	-6.4	-0.00071	mg/L	0.000465	-0.00071	mg/L	0.000465	65.43%
Cd 226.502†	-200.1	-0.00723	mg/L	0.000199	-0.00723	mg/L	0.000199	2.75%
Cr 267.716†	3537.7	0.15927	mg/L	0.000968	0.15927	mg/L	0.000968	0.61%
Cr 205.560†	2528.8	0.13591	mg/L	0.001170	0.13591	mg/L	0.001170	0.86%
Pb 220.353†	174.1	0.05401	mg/L	0.000805	0.05401	mg/L	0.000805	1.49%
Pb 217.000†	101.5	0.13095	mg/L	0.012951	0.13095	mg/L	0.012951	9.89%
Se 203.985†	1.9	0.00399	mg/L	0.034149	0.00399	mg/L	0.034149	856.69%
Se 196.026†	-23.9	-0.04658	mg/L	0.022350	-0.04658	mg/L	0.022350	47.98%

Sequence No.: 47
Sample ID: 1408914-001A
Analyst: JORGE
Initial Sample Wt:

Autosampler Location: 122
Date Collected: 8/25/2014 1:40:00 PM
Data Type: Original
Initial Sample Vol:

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408914-006AMSD

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408914-006AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	566054.0	108.89	%	0.701				0.64%
Ag 328.068†	34889.2	0.42568	mg/L	0.000235	0.42568	mg/L	0.000235	0.06%
As 188.979†	199.2	0.44590	mg/L	0.007128	0.44590	mg/L	0.007128	1.60%
As 193.696†	196.2	0.36886	mg/L	0.014162	0.36886	mg/L	0.014162	3.84%
Ba 233.527†	43904.0	1.0923	mg/L	0.00275	1.0923	mg/L	0.00275	0.25%
Cd 228.802†	3783.9	0.42063	mg/L	0.002880	0.42063	mg/L	0.002880	0.68%
Cd 226.502†	11093.4	0.40073	mg/L	0.000955	0.40073	mg/L	0.000955	0.24%
Cr 267.716†	10267.5	0.46226	mg/L	0.001203	0.46226	mg/L	0.001203	0.26%
Cr 205.560†	8383.4	0.45056	mg/L	0.002381	0.45056	mg/L	0.002381	0.53%
Pb 220.353†	1576.0	0.48875	mg/L	0.002858	0.48875	mg/L	0.002858	0.58%
Pb 217.000†	395.3	0.50996	mg/L	0.002576	0.50996	mg/L	0.002576	0.51%
Se 203.985†	164.4	0.34961	mg/L	0.023273	0.34961	mg/L	0.023273	6.66%
Se 196.026†	199.9	0.38926	mg/L	0.016320	0.38926	mg/L	0.016320	4.19%

Matrix Recovery Check: 1408914-006AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09904	0.42568	0.000	mg/L	426.6
As 188.979	0.53948	0.44590	0.007	mg/L	81.3
As 193.696	0.45991	0.36886	0.014	mg/L	81.8
Ba 233.527	2.8278	1.0923	0.003	mg/L	-247.1
Cd 228.802	0.49952	0.42063	0.003	mg/L	84.2
Cd 226.502	0.49592	0.40073	0.001	mg/L	81.0
Cr 267.716	0.54392	0.46226	0.001	mg/L	83.7
Cr 205.560	0.53255	0.45056	0.002	mg/L	83.6
Pb 220.353	0.54381	0.48875	0.003	mg/L	89.0
Pb 217.000	0.54349	0.50996	0.003	mg/L	93.3
Se 203.985	0.42777	0.34961	0.023	mg/L	84.4
Se 196.026	0.47921	0.38926	0.016	mg/L	82.0

Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 1:46:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	515328.8	99.130	%	0.9629				0.97%
Ag 328.068†	41201.9	0.50270	mg/L	0.000316	0.50270	mg/L	0.000316	0.06%
QC value within limits for Ag 328.068 Recovery = 100.54%								
As 188.979†	226.6	0.50722	mg/L	0.005887	0.50722	mg/L	0.005887	1.16%
QC value within limits for As 188.979 Recovery = 101.44%								
As 193.696†	268.4	0.50447	mg/L	0.006133	0.50447	mg/L	0.006133	1.22%
Ba 233.527†	20727.1	0.51569	mg/L	0.000926	0.51569	mg/L	0.000926	0.18%
QC value within limits for Ba 233.527 Recovery = 103.14%								
Cd 228.802†	4664.6	0.51853	mg/L	0.002804	0.51853	mg/L	0.002804	0.54%

QC value within limits for Cd 228.802 Recovery = 103.71%

Cd 226.502†	14265.7	0.51533 mg/L	0.000403	0.51533 mg/L	0.000403	0.08%
Cr 267.716†	11372.4	0.51200 mg/L	0.001140	0.51200 mg/L	0.001140	0.22%
Cr 205.560†	9544.3	0.51296 mg/L	0.003502	0.51296 mg/L	0.003502	0.68%

QC value within limits for Cr 205.560 Recovery = 102.59%

Pb 220.353†	1656.7	0.51380 mg/L	0.002809	0.51380 mg/L	0.002809	0.55%

QC value within limits for Pb 220.353 Recovery = 102.76%

Pb 217.000†	387.8	0.50026 mg/L	0.010609	0.50026 mg/L	0.010609	2.12%
Se 203.985†	248.0	0.52737 mg/L	0.004560	0.52737 mg/L	0.004560	0.86%
Se 196.026†	266.8	0.51967 mg/L	0.018586	0.51967 mg/L	0.018586	3.58%

QC value within limits for Se 196.026 Recovery = 103.93%

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 1:47:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	532269.0	102.39	%	0.630				0.62%
Ag 328.068†	8.7	0.00011	mg/L	0.000252	0.00011	mg/L	0.000252	237.91%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.4	-0.00083	mg/L	0.005304	-0.00083	mg/L	0.005304	635.16%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.6	-0.00115	mg/L	0.007995	-0.00115	mg/L	0.007995	697.55%
Ba 233.527†	7.0	0.00018	mg/L	0.000298	0.00018	mg/L	0.000298	170.07%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-3.1	-0.00034	mg/L	0.000314	-0.00034	mg/L	0.000314	92.14%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-1.7	-0.00006	mg/L	0.000241	-0.00006	mg/L	0.000241	399.92%
Cr 267.716†	-0.0	-0.00000	mg/L	0.000302	-0.00000	mg/L	0.000302	>999.9%
Cr 205.560†	4.6	0.00025	mg/L	0.001820	0.00025	mg/L	0.001820	735.32%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	4.5	0.00140	mg/L	0.001496	0.00140	mg/L	0.001496	106.65%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-8.1	-0.01043	mg/L	0.002221	-0.01043	mg/L	0.002221	21.30%
Se 203.985†	-1.6	-0.00350	mg/L	0.003274	-0.00350	mg/L	0.003274	93.51%
Se 196.026†	-1.9	-0.00363	mg/L	0.010541	-0.00363	mg/L	0.010541	290.53%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/25/2014 1:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

NO CAT SMC 8/26/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	524523.6	100.90	%	0.493				0.49%

Cr 267.716†	11175.2	0.50312 mg/L	0.001024	0.50312 mg/L	0.001024	0.20%
Cr 205.560†	9394.2	0.50489 mg/L	0.003500	0.50489 mg/L	0.003500	0.69%
Pb 220.353†	1636.9	0.50764 mg/L	0.005828	0.50764 mg/L	0.005828	1.15%
Pb 217.000†	387.2	0.49942 mg/L	0.004166	0.49942 mg/L	0.004166	0.83%
Se 203.985†	575.5	1.2239 mg/L	0.03384	1.2239 mg/L	0.03384	2.77%
Se 196.026†	654.4	1.2745 mg/L	0.01812	1.2745 mg/L	0.01812	1.42%

Sequence No.: 62
Sample ID: 1408A76-001A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 133
Date Collected: 8/25/2014 1:57:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408A76-001A 2X

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	619089.8	119.09	%	0.545				0.46%
Ag 328.068†	-195.4	-0.00238	mg/L	0.000437	-0.00238	mg/L	0.000437	18.34%
As 188.979†	1.4	0.00305	mg/L	0.005616	0.00305	mg/L	0.005616	184.34%
As 193.696†	-34.0	-0.06394	mg/L	0.010605	-0.06394	mg/L	0.010605	16.59%
Ba 233.527†	39135.3	0.97369	mg/L	0.002807	0.97369	mg/L	0.002807	0.29%
Cd 228.802†	-7.4	-0.00082	mg/L	0.000497	-0.00082	mg/L	0.000497	60.78%
Cd 226.502†	-104.4	-0.00377	mg/L	0.000431	-0.00377	mg/L	0.000431	11.42%
Cr 267.716†	1068.9	0.04812	mg/L	0.000215	0.04812	mg/L	0.000215	0.45%
Cr 205.560†	742.3	0.03989	mg/L	0.000746	0.03989	mg/L	0.000746	1.87%
Pb 220.353†	518.7	0.16088	mg/L	0.002864	0.16088	mg/L	0.002864	1.78%
Pb 217.000†	130.0	0.16769	mg/L	0.001019	0.16769	mg/L	0.001019	0.61%
Se 203.985†	-21.0	-0.04472	mg/L	0.012925	-0.04472	mg/L	0.012925	28.90%
Se 196.026†	-15.7	-0.03058	mg/L	0.034694	-0.03058	mg/L	0.034694	113.45%

Sequence No.: 63
Sample ID: 1408A76-002A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 134
Date Collected: 8/25/2014 1:58:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408A76-002A 2X

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	597721.2	114.98	%	0.856				0.74%
Ag 328.068†	-212.1	-0.00259	mg/L	0.000275	-0.00259	mg/L	0.000275	10.62%
As 188.979†	10.1	0.02251	mg/L	0.010217	0.02251	mg/L	0.010217	45.40%
As 193.696†	-30.3	-0.05702	mg/L	0.004338	-0.05702	mg/L	0.004338	7.61%
Ba 233.527†	106197.5	2.6422	mg/L	0.00282	2.6422	mg/L	0.00282	0.11%
Cd 228.802†	-11.7	-0.00130	mg/L	0.000422	-0.00130	mg/L	0.000422	32.44%
Cd 226.502†	-117.6	-0.00425	mg/L	0.000159	-0.00425	mg/L	0.000159	3.73%
Cr 267.716†	1328.8	0.05983	mg/L	0.000600	0.05983	mg/L	0.000600	1.00%
Cr 205.560†	900.1	0.04838	mg/L	0.000582	0.04838	mg/L	0.000582	1.20%
Pb 220.353†	2126.9	0.65961	mg/L	0.006176	0.65961	mg/L	0.006176	0.94%
Pb 217.000†	560.4	0.72289	mg/L	0.017217	0.72289	mg/L	0.017217	2.38%
Se 203.985†	-3.7	-0.00779	mg/L	0.012804	-0.00779	mg/L	0.012804	164.30%
Se 196.026†	-15.9	-0.03097	mg/L	0.026272	-0.03097	mg/L	0.026272	84.84%

Sequence No.: 64
Sample ID: 1408A76-003A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 135
Date Collected: 8/25/2014 1:59:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408A76-003A 2X

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-003A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	617562.9	118.80	%	0.856				0.72%
Ag 328.068†	-147.0	-0.00179	mg/L	0.000072	-0.00179	mg/L	0.000072	4.02%
As 188.979†	5.0	0.01110	mg/L	0.008441	0.01110	mg/L	0.008441	76.01%
As 193.696†	-34.9	-0.06559	mg/L	0.011716	-0.06559	mg/L	0.011716	17.86%
Ba 233.527†	60133.2	1.4961	mg/L	0.00254	1.4961	mg/L	0.00254	0.17%
Cd 228.802†	-10.2	-0.00114	mg/L	0.000210	-0.00114	mg/L	0.000210	18.51%
Cd 226.502†	-144.6	-0.00522	mg/L	0.000177	-0.00522	mg/L	0.000177	3.38%
Cr 267.716†	1357.0	0.06109	mg/L	0.000351	0.06109	mg/L	0.000351	0.57%
Cr 205.560†	889.1	0.04779	mg/L	0.001384	0.04779	mg/L	0.001384	2.90%
Pb 220.353†	1864.3	0.57819	mg/L	0.001946	0.57819	mg/L	0.001946	0.34%
Pb 217.000†	484.6	0.62504	mg/L	0.004015	0.62504	mg/L	0.004015	0.64%
Se 203.985†	-11.8	-0.02500	mg/L	0.022751	-0.02500	mg/L	0.022751	91.01%
Se 196.026†	-13.6	-0.02640	mg/L	0.008342	-0.02640	mg/L	0.008342	31.59%

Sequence No.: 65
Sample ID: BLANK
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 12
Date Collected: 8/25/2014 2:01:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	515554.2	99.173	%	2.0431				2.06%
Ag 328.068†	-18.7	-0.00023	mg/L	0.000066	-0.00023	mg/L	0.000066	28.78%
As 188.979†	1.0	0.00223	mg/L	0.003353	0.00223	mg/L	0.003353	150.63%
As 193.696†	1.3	0.00248	mg/L	0.007015	0.00248	mg/L	0.007015	283.05%
Ba 233.527†	4.6	0.00012	mg/L	0.000302	0.00012	mg/L	0.000302	261.17%
Cd 228.802†	0.4	0.00004	mg/L	0.000387	0.00004	mg/L	0.000387	977.22%
Cd 226.502†	-4.6	-0.00017	mg/L	0.000098	-0.00017	mg/L	0.000098	58.25%
Cr 267.716†	8.3	0.00037	mg/L	0.000097	0.00037	mg/L	0.000097	26.14%
Cr 205.560†	-6.9	-0.00037	mg/L	0.000661	-0.00037	mg/L	0.000661	178.80%
Pb 220.353†	10.0	0.00311	mg/L	0.001218	0.00311	mg/L	0.001218	39.12%
Pb 217.000†	-4.1	-0.00525	mg/L	0.001054	-0.00525	mg/L	0.001054	20.08%
Se 203.985†	-1.4	-0.00287	mg/L	0.016634	-0.00287	mg/L	0.016634	578.71%
Se 196.026†	4.1	0.00790	mg/L	0.003556	0.00790	mg/L	0.003556	45.01%

Sequence No.: 66
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 2:02:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	527823.8	101.53	%	0.451				0.44%
Ag 328.068†	40897.9	0.49900	mg/L	0.001522	0.49900	mg/L	0.001522	0.31%
QC value within limits for Ag 328.068 Recovery = 99.80%								
As 188.979†	223.8	0.50103	mg/L	0.003920	0.50103	mg/L	0.003920	0.78%
QC value within limits for As 188.979 Recovery = 100.21%								
As 193.696†	266.6	0.50113	mg/L	0.015557	0.50113	mg/L	0.015557	3.10%
Ba 233.527†	20463.9	0.50914	mg/L	0.000628	0.50914	mg/L	0.000628	0.12%
QC value within limits for Ba 233.527 Recovery = 101.83%								
Cd 228.802†	4590.0	0.51024	mg/L	0.002222	0.51024	mg/L	0.002222	0.44%
QC value within limits for Cd 228.802 Recovery = 102.05%								
Cd 226.502†	14094.5	0.50914	mg/L	0.001430	0.50914	mg/L	0.001430	0.28%
Cr 267.716†	11238.4	0.50597	mg/L	0.001320	0.50597	mg/L	0.001320	0.26%
Cr 205.560†	9396.2	0.50500	mg/L	0.002008	0.50500	mg/L	0.002008	0.40%
QC value within limits for Cr 205.560 Recovery = 101.00%								
Pb 220.353†	1637.0	0.50769	mg/L	0.002708	0.50769	mg/L	0.002708	0.53%
QC value within limits for Pb 220.353 Recovery = 101.54%								
Pb 217.000†	384.5	0.49600	mg/L	0.003663	0.49600	mg/L	0.003663	0.74%
Se 203.985†	237.3	0.50474	mg/L	0.019762	0.50474	mg/L	0.019762	3.92%
Se 196.026†	254.0	0.49473	mg/L	0.001809	0.49473	mg/L	0.001809	0.37%
QC value within limits for Se 196.026 Recovery = 98.95%								

All analyte(s) passed QC.

Sequence No.: 67
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 2:03:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	535929.2	103.09	%	0.250				0.24%
Ag 328.068†	0.9	0.00001	mg/L	0.000220	0.00001	mg/L	0.000220	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	4.2	0.00930	mg/L	0.003716	0.00930	mg/L	0.003716	39.97%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.3	0.00063	mg/L	0.001139	0.00063	mg/L	0.001139	181.51%
Ba 233.527†	-0.8	-0.00002	mg/L	0.000166	-0.00002	mg/L	0.000166	860.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.4	-0.00005	mg/L	0.000334	-0.00005	mg/L	0.000334	679.42%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-1.1	-0.00004	mg/L	0.000148	-0.00004	mg/L	0.000148	362.46%
Cr 267.716†	-2.7	-0.00012	mg/L	0.000020	-0.00012	mg/L	0.000020	16.49%
Cr 205.560†	-4.0	-0.00021	mg/L	0.001006	-0.00021	mg/L	0.001006	469.49%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	6.6	0.00204	mg/L	0.001047	0.00204	mg/L	0.001047	51.35%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-10.7	-0.01378	mg/L	0.000978	-0.01378	mg/L	0.000978	7.10%
Se 203.985†	4.8	0.01022	mg/L	0.006273	0.01022	mg/L	0.006273	61.35%
Se 196.026†	-0.5	-0.00107	mg/L	0.007540	-0.00107	mg/L	0.007540	704.74%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

J 9-8.25.14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408B56**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408B56

Lab ID: 1408B56-001
Client Sample ID: FFOR-CF-0051

Collection Date: 8/21/2014 3:21:00 PM
Matrix: MEOH (SOIL)

Analyses L3	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R20770	8/22/2014 1:39:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-22-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 8-22-14 8:17am	Start Temp: 110C		Reviewed by: √ 8-25-14
End time: 8-25-14 1:39pm	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408b56-001a	32.2	41.51				9.2620		#VALUE!
MeOH Kit								#VALUE!
1408b56-001a	25.7	41.85	1.00	2.00	2.00	16.1500	0.0000	0.6192
Pmoist								#VALUE!
1408b56-001a			1.36	25.98	23.19		11.3323	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408b56-001a $\frac{25.98 - 23.19}{25.98 - 1.36} \times 100 = 11.3323\%$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))** cg 8-25-14

HEAL ID #

1408056-001a $\frac{10g}{16.15g} = 0.6192$

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

8/26/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408B56**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408B56

Lab ID: 1408B56-001
Client Sample ID: FFOR-CF-0051

Collection Date: 8/21/2014 3:21:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	11000	110		mg/Kg-dry	10	14903	8/25/2014 4:56:48 PM
Motor Oil Range Organics (MRO)	ND	570		mg/Kg-dry	10	14903	8/25/2014 4:56:48 PM
Surr: DNOP	0	57.9-140	S	%REC	10	14903	8/25/2014 4:56:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: 8/22/2014 8:39:39 A
Prep End Date:

Reviewed By: 8/22/14

Prep Factor Units: mL / g

Prep Batch ID: 14903 Prep Code: 8015_S_PREP Technician: Brenda Nieto

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepE
MB-14903		Soil			10	0	0	10	1.000	8/22/2014	
LCS-14903		Soil			10	0	0	10	1.000	8/22/2014	
1408B17-001A	Behind Crusher	Soil			10 10.10	0	0	10	1.000	8/22/2014	
1408B17-001AMS		Soil			10 9.96	0	0	10	1.000	8/22/2014	
1408B17-001AMSD		Soil			10 10.08	0	0	10	1.000	8/22/2014	
1408B17-002A	Pile	Soil			10 9.940 BN 8.27.14			10	1.000	8/22/2014	
1408B17-003A	Crusher East	Soil			10 9.93	0	0	10	1.000	8/22/2014	
1408B56-001A	FFOR-CF-0051	MeOH (Soil)			10 9.91	0	0	10	1.000	8/22/2014	

BN 8.22.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Ur
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

BN 8.22.14

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount U
ST8015-14010	5,000 PPM Diesel, 500 ppm DNOP	LCS	26361	Container-01 of 01	100	µL
ST8015-14011	1,000 DNOP	SAMP	26419	Container-01 of 01	100	µL

BN 8.25.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
4	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-14903	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14903 <D>.dat	1
6	Unknown	0	1	LCS-14903	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14903 <D>.dat	1
7	Unknown	0	1	1408B17-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001A <D>.dat	1
8	Unknown	0	1	1408B17-001AMS	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001A MS <D>.dat	1
9	Unknown	0	1	1408B17-001AMSD	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-001A MSD <D>.dat	1
10	Unknown	0	1	1408B17-002A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-002A <D>.dat	1
11	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
12	Unknown	0	1	1408B17-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-003A <D>.dat	1
13	Unknown	0	1	1408B17-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B17-003A <D>.dat	1
14	Unknown	0	1	1408B56-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B56-001A <D>.dat	1
15	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
16	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
17	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
18	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1

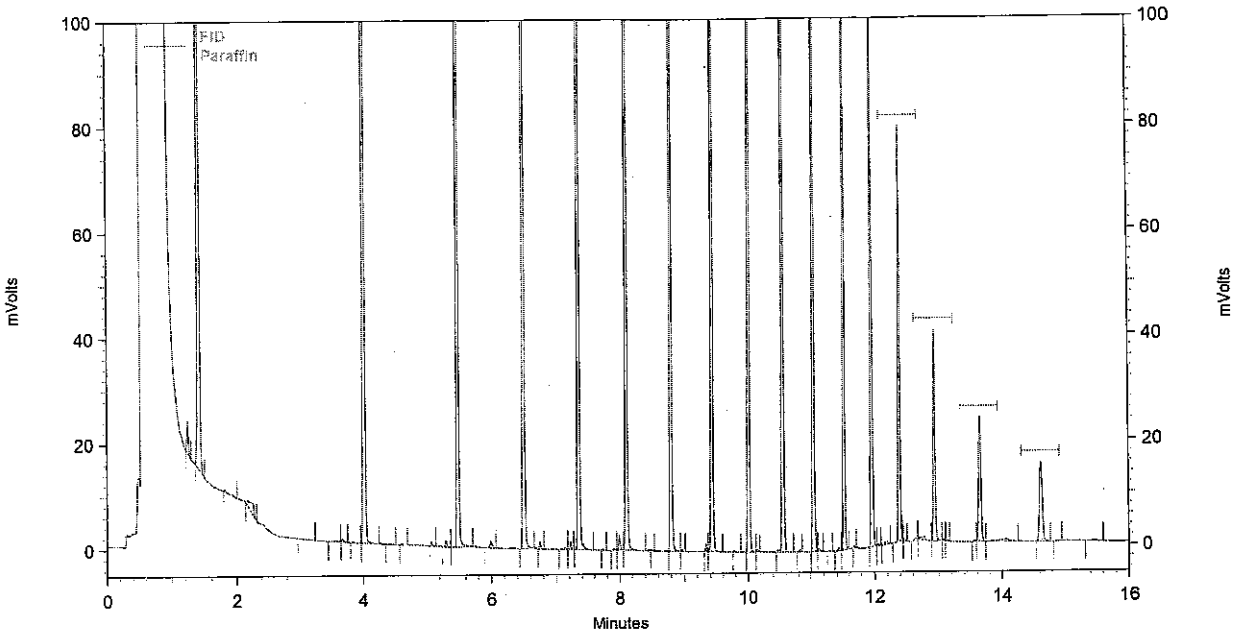
JR 8/26/14

Sequence Print

19	Unknown	0	1	1408A76-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408A76-003A <D>.dat	1
20	Unknown	0	1	1408B56-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B56-001A <D>.dat	1
21	Unknown	0	1	1408B59-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-001A <D>.dat	1
22	Unknown	0	1	1408B59-002A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-002A <D>.dat	1
23	Unknown	0	1	1408B59-003A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-003A <D>.dat	1
24	Unknown	0	1	1408B59-004A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-004A <D>.dat	1
25	Unknown	0	1	1408B59-005A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-005A <D>.dat	1
26	Unknown	0	1	1408B59-006A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B59-006A <D>.dat	1
27	Unknown	0	1	1408B66-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A <D>.dat	1
28	Unknown	0	1	1408B66-001AMS	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A MS <D>.dat	1
29	Unknown	0	1	1408B66-001AMSD	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408B66-001A MSD <D>.dat	1
30	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-25-14 9-24-05 AM.dat
Aquired: 8/25/2014 9:28:58 AM



FID Results

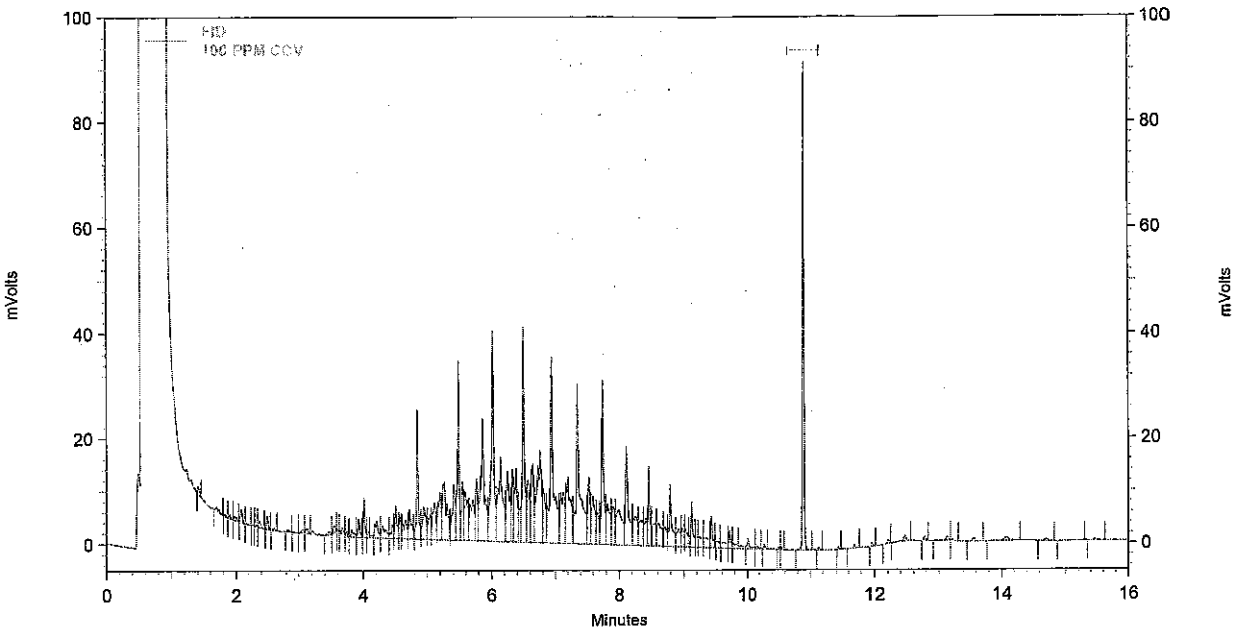
Name	Retention Time	Area	ug/ml
C8	1.403	427841	0.000
C10	4.011	525075	0.000
C12	5.472	509720	0.000
C14	6.491	487702	0.000
C16	7.344	469608	0.000
C18	8.101	446511	0.000
C20	8.789	433943	0.000
C22	9.424	415074	0.000
C24	10.005	399077	0.000
C26	10.544	402386	0.000
C28	11.045	379912	0.000
C30	11.515	314769	0.000
C32	11.957	211167	0.000
C34	12.389	120331	0.000
C36	12.923	74824	0.000
C38	13.637	54257	0.000
C40	14.613	46467	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-25-14 9-45-06 AM.dat
Aquired: 8/25/2014 9:50:20 AM



FID Results

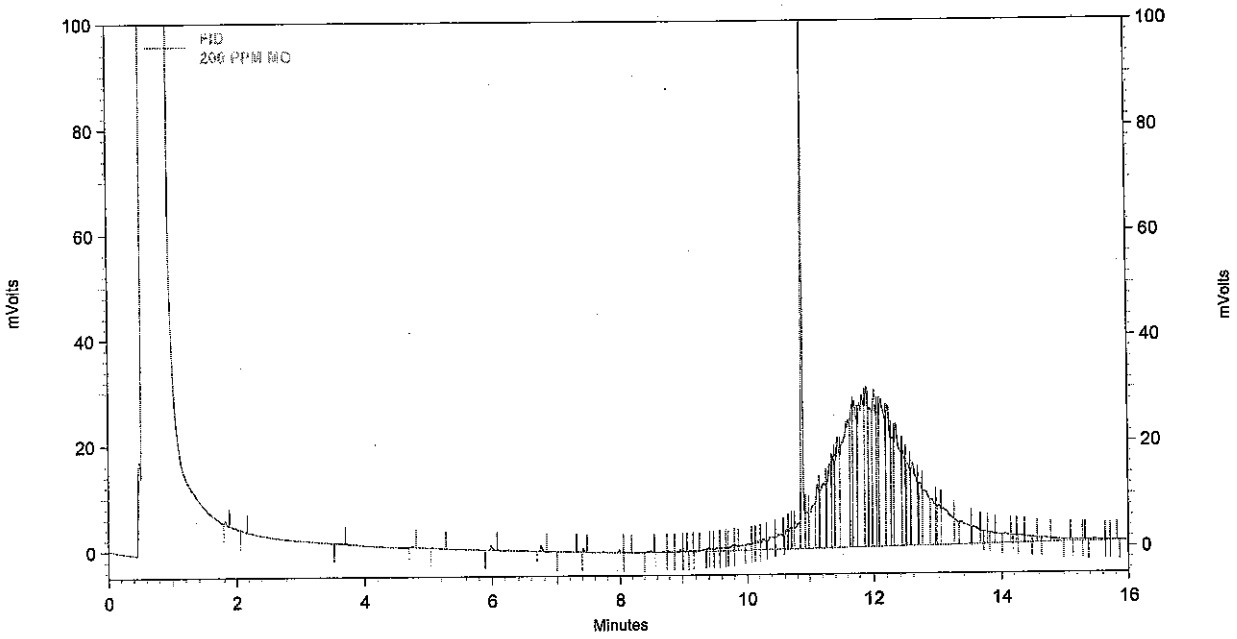
Name	Retention Time	Area	ug/ml
DNOP	10.880	131984	8.406
DRO		2133951	108.873
MRO		20672	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-25-14 10-06-29 AM.dat
Aquired: 8/25/2014 10:11:31 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	174866	10.948
DRO		96210	7.340
MRO		1926770	175.025

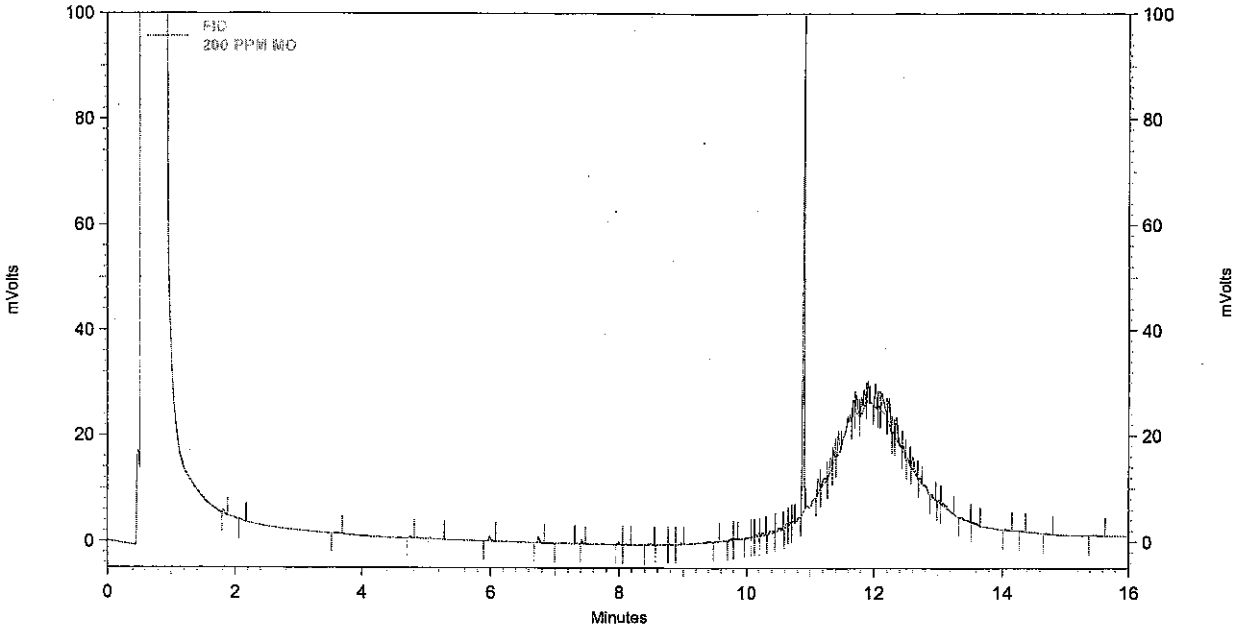
Analyst BW

Reviewed By JZ

10.948
- 9.309
1.639
+175.025
176.664
200 x100
= 88.332% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-25-14 10-06-29 AM.dat
Aquired: 8/25/2014 10:11:31 AM



FID Results

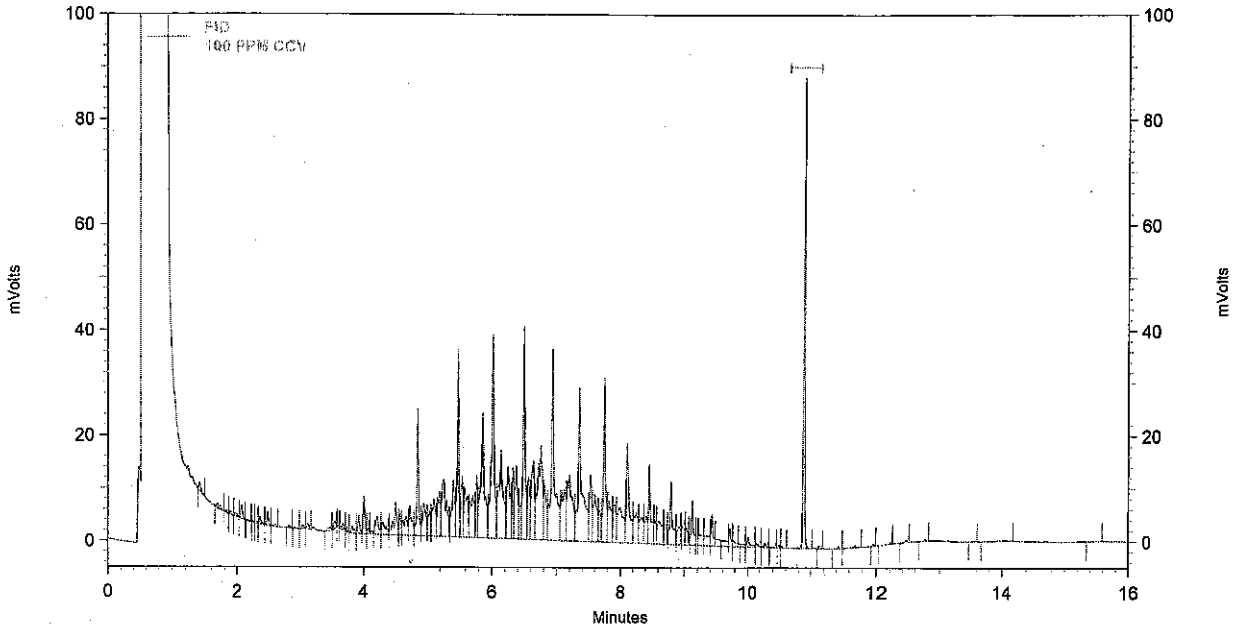
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.875	147272	9.309
DRO		21327	3.609
MRO		112759	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\082514\100 PPM 08-25-14 4-08-40 PM.dat
Aquired: 8/25/2014 4:13:56 PM



FID Results

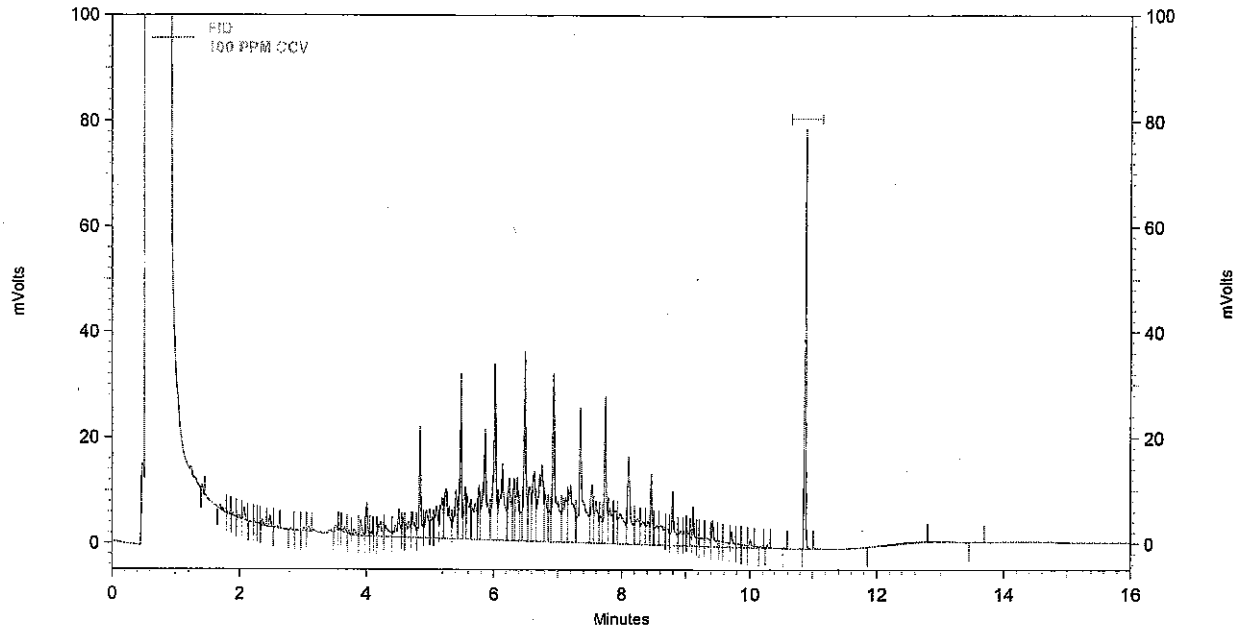
Name	Retention Time	Area	ug/ml
DNOP	10.875	124380	7.959
DRO		2145889	109.468
MRO		8237	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-25-14 8-25-29 PM.dat
Aquired: 8/25/2014 8:30:39 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	112382	7.256
DRO		1857733	95.111
MRO		7674	0.000

Analyst BW

Reviewed By JG

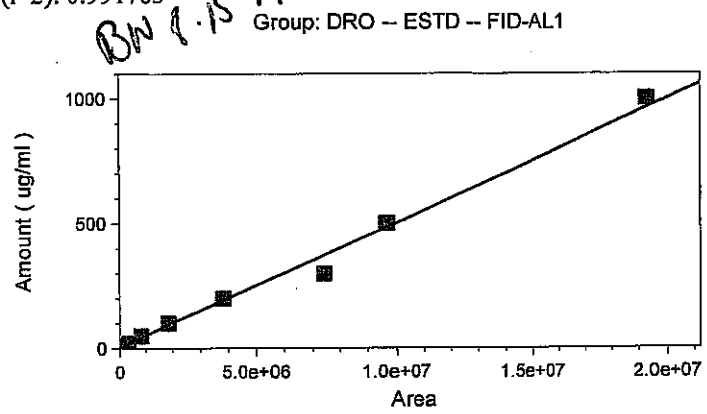
Adequate surrogate recovery of samples.

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:21:03 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.03980e-005 RF StDev: 1.70579e-005 RF %RSD: 28.2426
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.98264e-005x + 2.54637
Goodness of fit (r^2): 0.991763

BW 8.15.14 ✓ JS 8/18/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	40802	131145	341153	826130	1860411
RF	9.803441007 79374e-005	7.62514773723 741e-005	5.862472263178 1e-005	6.052316221417 94e-005	5.3751563498 6033e-005
Last Area Residual	-0.57939	0.919144	0.455203	6.29055	4.75606
Rep StDev					
Rep %RSD					
Rep 1 Area	40802	131145	341153	826130	1860411
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-15-14 2-54-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-15-14 3-15-46 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-15-14 3-37-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-15-14 3-58-48 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/18/2014 10:31:30 AM	8/18/2014 10:31:50 AM	8/18/2014 10:32:04 AM	8/18/2014 10:32:25 AM	8/18/2014 10:36:18 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:21:03 AM
User: System
Instrument: Dante (Offline)

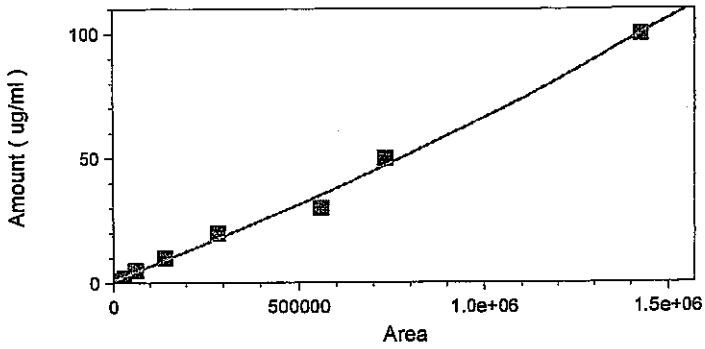
Amount	200	300	500	1000
Area	3821984	7432893	9652670	19265059
RF	5.232884282 09014e-005	4.03611352941 58e-005	5.179913951269 44e-005	5.190744549497 62e-005
Last Area				
Residual	7.01795	-72.9006	16.4959	37.5452
Rep StDev				
Rep %RSD				
Rep 1 Area	3821984	7432893	9652670	19265059
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-15-14 4-20-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 08-15-14 4-41-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-15-14 5-03-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-15-14 5-24-47 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/18/2014 10:36:34 AM	8/18/2014 10:36:53 AM	8/18/2014 10:38:24 AM	8/18/2014 10:38:41 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 10:46:37 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 6.91667e-005 RF StDev: 7.29732e-006 RF %RSD: 10.5503
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 9.18529e-012x^2 + 5.64535e-005x + 0.795507
Goodness of fit (r^2): 0.994870

BN 8.18.14 Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5810	13611	30349	61280	142003
RF	6.884681583 47676e-005	7.34699875101 021e-005	6.590002965501 33e-005	8.159268929503 92e-005	7.0421047442 6597e-005
Last Area Residual	-0.723812	-0.565598	-0.517276	0.710527	1.0027
Rep StDev					
Rep %RSD					
Rep 1 Area	5810	13611	30349	61280	142003
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-15-14 2-54-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-15-14 3-15-46 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-15-14 3-37-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-15-14 3-58-48 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/18/2014 10:31:30 AM	8/18/2014 10:31:50 AM	8/18/2014 10:32:04 AM	8/18/2014 10:32:25 AM	8/18/2014 10:36:18 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 10:46:37 AM
User: System
Instrument: Dante (Offline)

Amount	20	30	50	100
Area	285367	558435	730830	1427594
RF	7.008518854 66785e-005	5.37215611485 67e-005	6.841536335399 48e-005	7.004792679151 08e-005
Last Area				
Residual	2.34652	-5.18557	3.04058	-0.108077
Rep StDev				
Rep %RSD				
Rep 1 Area	285367	558435	730830	1427594
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-15-14 4-20-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 08-15-14 4-41-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-15-14 5-03-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-15-14 5-24-47 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/18/2014 10:36:34 AM	8/18/2014 10:36:53 AM	8/18/2014 10:38:24 AM	8/18/2014 10:38:41 AM

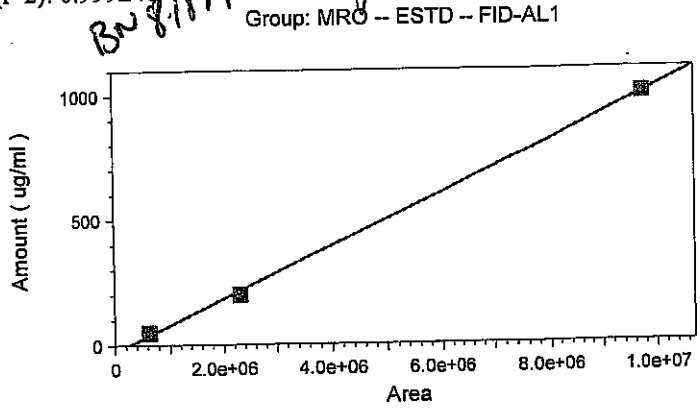
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:02:27 AM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 8.99268e-005 RF StDev: 1.15129e-005 RF %RSD: 12.8025
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000105297x - 27.8575
Goodness of fit (r^2): 0.999248

8/18/14

8/18/14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	621807	2308260	9734811
RF	8.041080270 88791e-005	8.66453519100 968e-005	0.000102724130 95642
Last Area			
Residual	12.3831	-15.1951	2.81201
Rep StDev			
Rep %RSD			
Rep 1 Area	621807	2308260	9734811
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO 08-15-14 6-07-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-15-14 6-29-17 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO 08-15-14 6-50-40 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/18/2014 10:40:16 AM	8/18/2014 10:40:33 AM	8/18/2014 10:40:55 AM

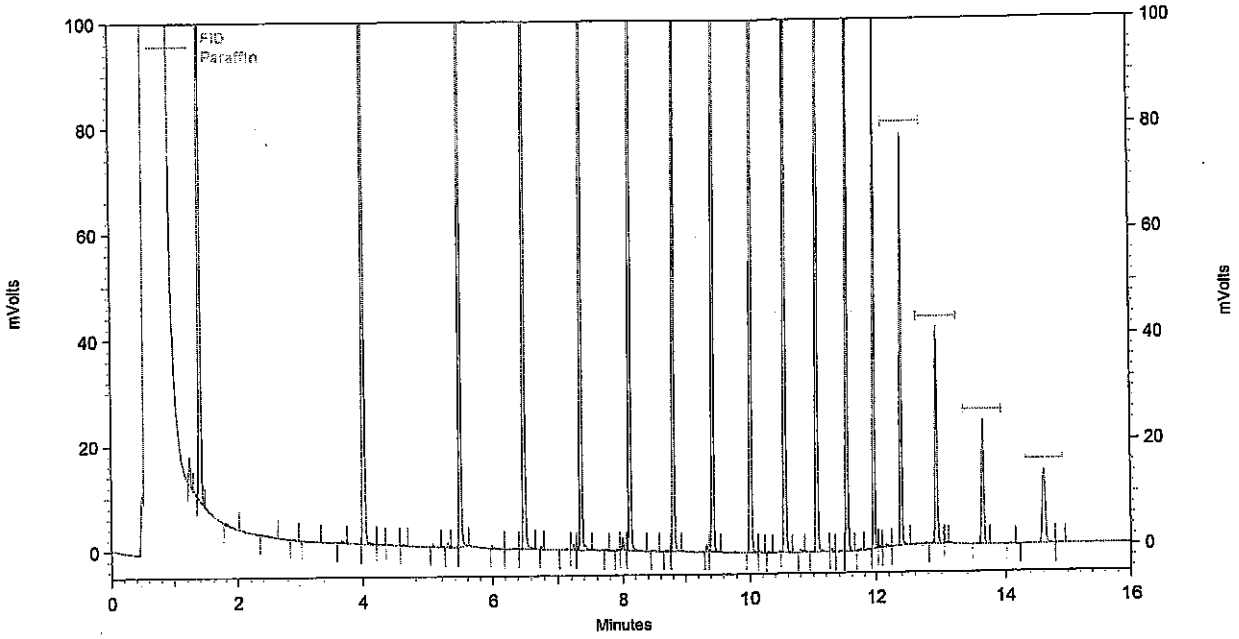
BN 8.15.17

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Paraffin	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
2	Unknown	0	1	4 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
3	Unknown	0	1	10 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
4	Unknown	0	1	20 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
5	Unknown	0	1	50 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
6	Unknown	0	1	100 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
7	Unknown	0	1	200 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
8	Unknown	0	1	300 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 PPM ICV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

✓ JR 8/18/14

Instrument: **Dante (Offline)** Vial #: **1** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-15-14 2-15-28 PM.dat
Aquired: 8/15/2014 2:16:48 PM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.397	374379	0.000
C10	4.011	427905	0.000
C12	5.477	415741	0.000
C14	6.491	409351	0.000
C16	7.349	401302	0.000
C18	8.107	386481	0.000
C20	8.795	380772	0.000
C22	9.424	367620	0.000
C24	10.005	358264	0.000
C26	10.544	364335	0.000
C28	11.051	357475	0.000
C30	11.520	298663	0.000
C32	11.957	206515	0.000
C34	12.389	123705	0.000
C36	12.928	78108	0.000
C38	13.637	56265	0.000
C40	14.613	45626	0.000

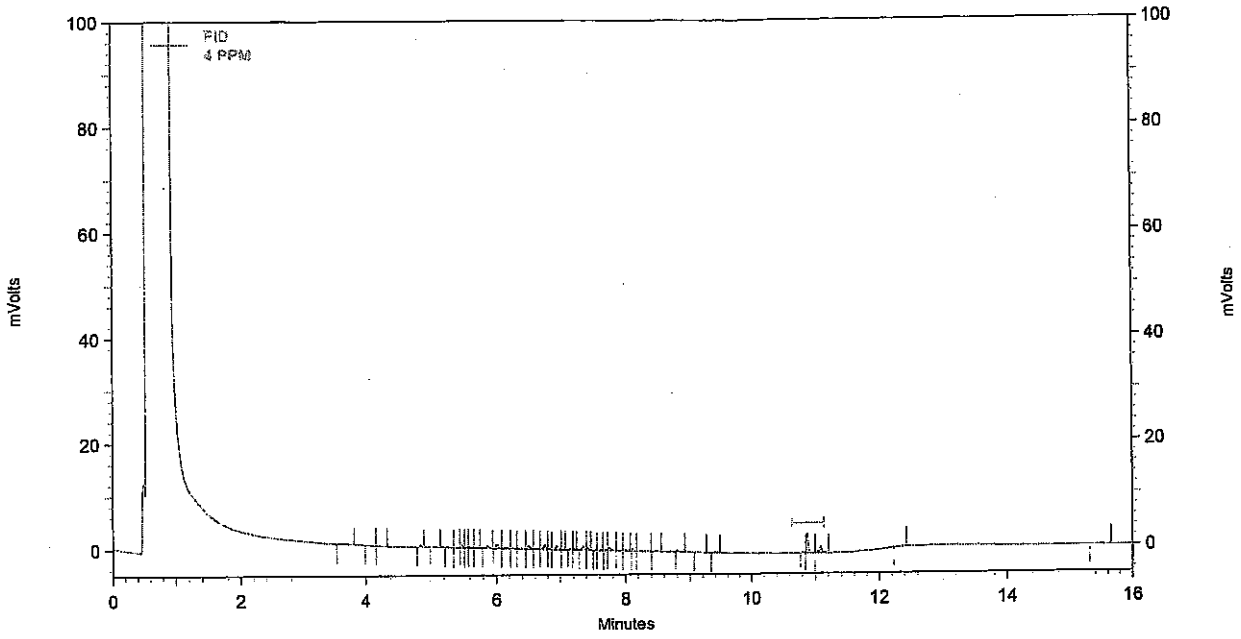
Analyst BN

Reviewed By

* updated retention times

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **4 PPM** Data Description: **SV109-1533**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat
Aquired: 8/15/2014 2:38:13 PM



FID Results

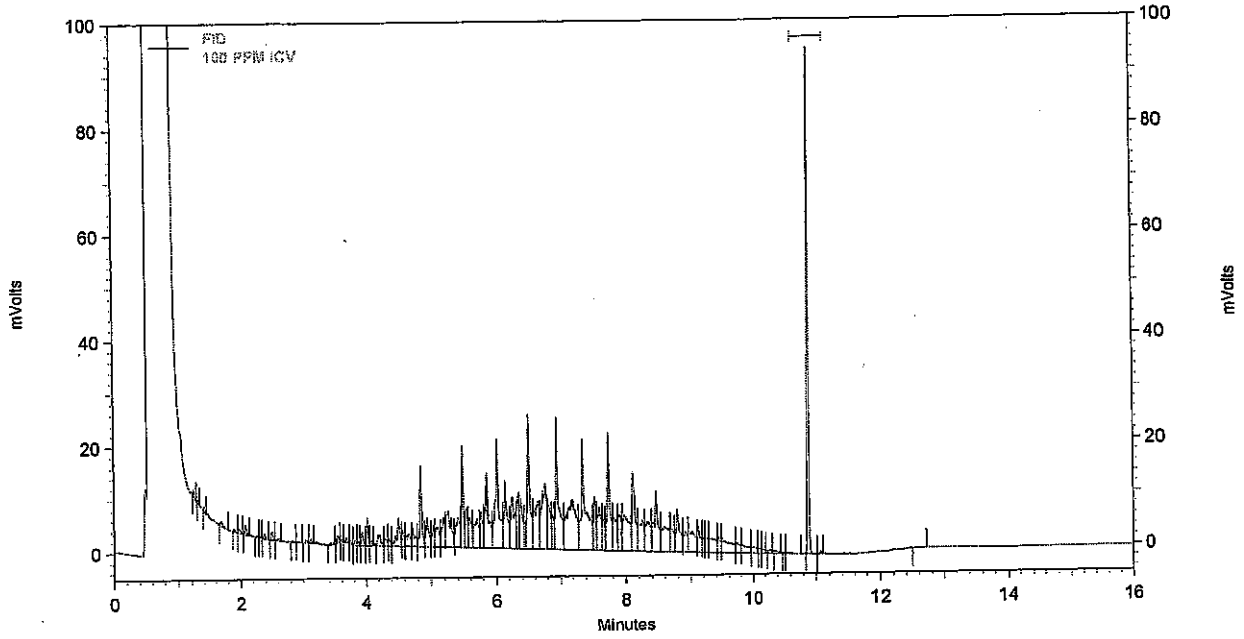
Name	Retention Time	Area	ug/ml
DNOP	10.880	5810	0.400 CAL
DRO		40802	4.000 CAL

Analyst BN

Reviewed By JR

Instrument: **Dante (Offline)** Vial #: **11** User: **System**
Sample ID: **100 PPM ICV** Data Description: **SV109-1542**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM ICV 08-15-14 5-46-20 PM.dat
Aquired: 8/15/2014 5:51:38 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	132757	8.452
DRO		1774063	90.942
MRO		1381	0.000

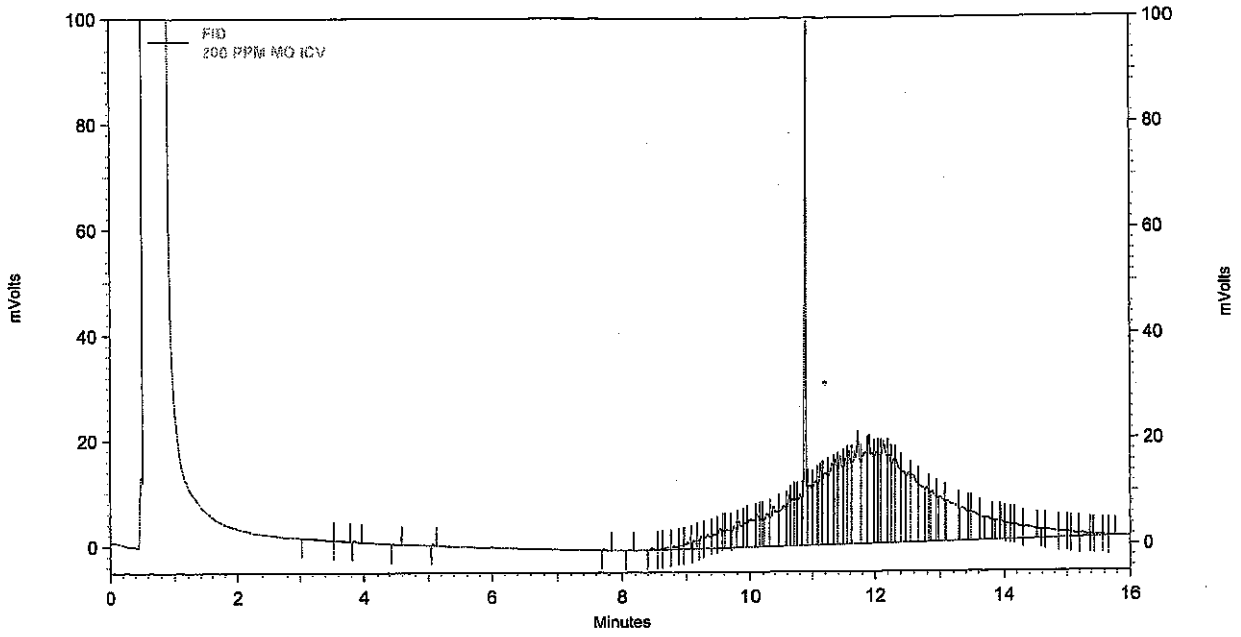
±20% ✓

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **15** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-15-14 7-12-12 PM.dat
Aquired: 8/15/2014 7:17:24 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	170701	10.700
DRO		375365	21.249
MRO		2042019	187.161

Analyst BN

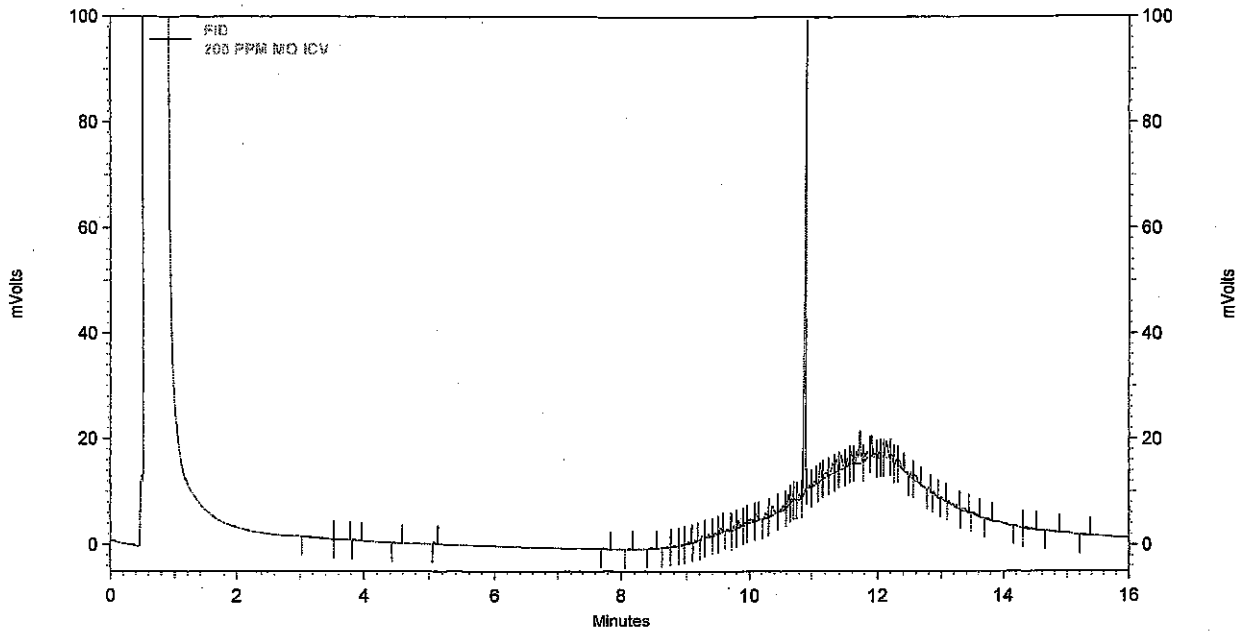
Reviewed By

±20% ✓

10.700
- 7.893
2.807
+187.161
189.968 x100
200
=94.98% ✓

Instrument: **Dante (Offline)** Vial #: **15** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-15-14 7-12-12 PM.dat
Aquired: 8/15/2014 7:17:24 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	123247	7.893
DRO		36397	4.360
MRO		103828	0.000

Analyst _____

Reviewed By _____

Analytical Report
Lab Order: **1408B56**
Date Reported: 8-26-14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408B56

Lab ID: 1408B56-001
Client Sample ID: FFOR-CF-0051
Collection Date: 8/21/2014 3:21:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Toluene	0.18	0.70	J	mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Ethylbenzene	17	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Methyl tert-butyl ether (MTBE)	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2,4-Trimethylbenzene	46	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,3,5-Trimethylbenzene	12	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2-Dichloroethane (EDC)	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2-Dibromoethane (EDB)	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Naphthalene	28	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Acetone	3.0	10	J	mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Bromobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Bromodichloromethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Bromoform	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Bromomethane	ND	2.1		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
2-Butanone	1.5	7.0	J	mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Carbon disulfide	ND	7.0		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Carbon tetrachloride	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Chlorobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Chloroethane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Chloroform	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Chloromethane	ND	2.1		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
2-Chlorotoluene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
4-Chlorotoluene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
cis-1,2-DCE	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
cis-1,3-Dichloropropene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2-Dibromo-3-chloropropane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Dibromochloromethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Dibromomethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2-Dichlorobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,3-Dichlorobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,4-Dichlorobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Dichlorodifluoromethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1-Dichloroethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1-Dichloroethene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2-Dichloropropane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,3-Dichloropropane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
2,2-Dichloropropane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1-Dichloropropene	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Hexachlorobutadiene	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408B56

Comment: DUE 08/26/2014

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	7.0		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Isopropylbenzene	5.8	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
4-Isopropyltoluene	8.6	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
4-Methyl-2-pentanone	ND	7.0		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Methylene chloride	ND	2.1		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
n-Butylbenzene	38	2.1		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
n-Propylbenzene	15	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
sec-Butylbenzene	12	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Styrene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
tert-Butylbenzene	0.25	0.70	J	mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1,1,2-Tetrachloroethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1,2,2-Tetrachloroethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Tetrachloroethene (PCE)	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
trans-1,2-DCE	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
trans-1,3-Dichloropropene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2,3-Trichlorobenzene	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2,4-Trichlorobenzene	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1,1-Trichloroethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,1,2-Trichloroethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Trichloroethene (TCE)	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Trichlorofluoromethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
1,2,3-Trichloropropane	ND	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Vinyl chloride	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Xylenes, Total	24	1.4		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Bromochloromethane	ND	0.70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Vinyl acetate	ND	7.0		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Surr: Dibromofluoromethane	91.6	70-130		%REC	20	R20775	8/22/2014 1:41:12 PM
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%REC	20	R20775	8/22/2014 1:41:12 PM
Surr: Toluene-d8	93.0	70-130		%REC	20	R20775	8/22/2014 1:41:12 PM
Surr: 4-Bromofluorobenzene	138	70-130	S	%REC	20	R20775	8/22/2014 1:41:12 PM

Comment: DUE 08/26/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	2300	70		mg/Kg-dry	20	R20775	8/22/2014 1:41:12 PM
Surr: BFB	144	61.2-137	S	%REC	20	R20775	8/22/2014 1:41:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408B56
Project: Kirtland AFB

Lab ID: 1408B56-002 **Collection Date:**
Client Sample ID: MEOH BLANK **Matrix:** MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Toluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Naphthalene	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Acetone	0.22	0.75	EJ	mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Bromoform	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Bromomethane	ND	0.15		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
2-Butanone	0.11	0.50	J	mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Chloroethane	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Chloroform	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Chloromethane	ND	0.15		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408B56

Comment: DUE 08/26/2014

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Methylene chloride	0.016	0.15	J	mg/Kg	1	R20775	8/22/2014 12:45:10 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Styrene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Surr: Dibromofluoromethane	84.0	70-130		%REC	1	R20775	8/22/2014 12:45:10 PM
Surr: 1,2-Dichloroethane-d4	84.8	70-130		%REC	1	R20775	8/22/2014 12:45:10 PM
Surr: Toluene-d8	90.5	70-130		%REC	1	R20775	8/22/2014 12:45:10 PM
Surr: 4-Bromofluorobenzene	84.4	70-130		%REC	1	R20775	8/22/2014 12:45:10 PM

Comment: DUE 08/26/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20775	8/22/2014 12:45:10 PM
Surr: BFB	104	61.2-137		%REC	1	R20775	8/22/2014 12:45:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Fri Aug 22 16:52:59 2014

ampleList: C:\VarianWS\082214v.smp

reated: Fri Aug 22 08:41:35 2014
odified: Fri Aug 22 16:52:55 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-2064, All injections contain V-52-0509	
2	5mL rb	none — Tune 12:35 9:57 8/25/2014
3	2.0ug gro ccv	below
	Notes V-18-2061	
4	2.5ug gro lcs	below
	Notes V-18-2067	
5	100ng ccv	below @ 11:21
	Notes V-54-0466	
6	100ng lcs	below
	Notes V-11-8067	
7	vcb	none — Tune 12:17
8	1408b56-002a	below
	Notes x1-100uL MeOH Blk G, 8260	
9	1408a76-~~002a~~ 004a	below
	Notes r1-100uL MeOH Blk G, 8260	
10	1408b56-001a	below
	Notes x20-5uL MeOH G, 8260	
11	b1	none
12	1408a76-002a	below
	Notes r20-5uL MeOH G, 8260	
13	b2	none
14	1408a76-003a	below
	Notes r20-5uL MeOH G, 8260	
15	b3	none
16	1408b56-001a ms	below
	Notes x20 V-11-8067	
17	1408b56-001a msd	below
	Notes x20 V-11-8067	
18	1408b56-001a ms g	below
	Notes x20 V-18-2067	
19	1408b56-001a msd g	below
	Notes x20 V-18-2067	
20	1408900-001a	below
	Notes r50-2uL PB14842 X, TMB's, 2-MethNa	
21	1408904-003a	below
	Notes r1-100uL PB14844 V_O	
22	1408904-007a	below
	Notes r1-100uL PB14844 V_O	
23	lcs-14868	below
	Notes V-11-8065 8260 ms/d for PB14868 was prepared for 1408914 -002A. -002 Not requested for 8260 analysis.	
24	mb-14868	below
	Notes 4681	
25	1408914-001a	below
	Notes x2-50uL pb14868	
26	1408914-003a	below
	Notes x1-100uL pb14868	
27	1408914-006a	below
	Notes x1-100uL pb14868	
28	1408914-007a	below
	Notes x1-100uL pb14868	
29 @ 10:31	1408a29-001a	below @ 16:30
	Notes x2-50uL pb14868	
30	tt	none
31	b4	none tune 11:27
32	75ng ccv	below @ 11:54
	Notes V-54-0466	
33	vcb2	none
34	1408a29-002a	below
	Notes x2-50uL pb14868	
35	1408a29-003a	below
	Notes x2-50uL pb14868	
36	1408a29-004a	below
	Notes x10-10uL pb14868 (100-E	
37	1408a29-005a	below
	Notes x20-5uL pb14868	

Loaded By: 8.22.14
1st Review By: 8.25.14
QA'd By: 8.26.14

```
                Notes  x1-100uL pb14868
39          1408a29-007a      below
                Notes  x1-100uL pb14868
40          1408a29-008a      below
                Notes  x1-100uL pb14868
41          1408a29-009a      below
                Notes  x1-100uL pb14868
42          1408a29-010a      below
                Notes  x20-5uL pb14868
43          1408b16-001a      below
                Notes  x1-5mL
44       1408b16-001a ms      below
                Notes  x1-5mL V-11-8067
45      1408b16-001a msd      below
                Notes  x1-5mL V-11-8067
46          1408b16-002a      below
                Notes  x1-5mL
47          1408b16-003a      below
                Notes  x1-5mL
48          1408b16-004a      below
                Notes  x2-2.5mL dds
49          1408b16-005a      below
                Notes  x1-5mL TB
50          1408b58-001a      below
                Notes  x1-5mL
51          1408b58-002a      below
                Notes  x1-5mL
52          1408b58-003a      below
                Notes  x1-5mL
53          1408b58-004a      below
                Notes  x1-5mL
54 @ 10:08  1408b58-005a      below
                Notes  x1-5mL TB
55

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\082214v.rcl.
```

Loaded By: 8.22.14
1st Review By: 8.25.14
QA'd By: 8.26.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082214v\100ng ccv 8-22-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 8/22/2014 Time Analyzed: 11:21

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	28861	7.99	45322	14.30	24932	17.91						
UPPER LIMIT	57722	8.49	90644	14.80	49864	18.41						
LOWER LIMIT	14431	7.49	22661	13.80	12466	17.41						
EPA SAMPLE NO												
rtm 8-22-2	33276	7.99	46865	14.30	26570	17.91						
5mL rb 8-2	30691	7.99	45344	14.30	24902	17.90						
2.0ug gro	30729	7.99	45254	14.30	25404	17.91						
2.5ug gro	31003	7.99	45081	14.30	25050	17.91						
100ng lcs	28934	7.99	44320	14.30	23585	17.91						
vcb 8-22-2	29889	7.99	43377	14.30	24193	17.90						
1408b56-00	29795	7.99	40427	14.30	25417	17.90						
1408a76-00	30472	7.99	40000	14.30	26890	17.90						
1408b56-00	31221	7.99	47061	14.30	24896 D	17.91 D						
b1 8-22-20	31116	7.99	45354	14.30	25120	17.90						
1408a76-00	30297	7.99	47484	14.30	25905 D	17.91 D						
b2 8-22-20	31885	7.99	44852	14.30	24954	17.91						
1408a76-00	28436	7.99	43941	14.31	21680 D	17.91 D						
b3 8-22-20	30505	8.00	43653	14.31	24903	17.91						
1408b56-00	28641	8.00	44813	14.31	20684 D	17.91 D						
1408b56-00	31624	8.00	46512	14.31	23642 D	17.91 D						

8-26-14

8-26-14

8/25/2014 16:38

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408b56-00	31571	8.00	46333	14.31	24307 D	17.91 D	SP					
1408b56-00	33790	8.00	47999	14.31	27530 D	17.91 D	SP					
1408900-00	32010	8.00	46858	14.31	24772 D	17.91 D	SP					
1408904-00	33186	7.99	46195	14.30	29312 D	17.90 D	SP					
1408904-00	33268	7.99	43680	14.31	30265	17.91						
lcs-14868	32800	7.99	45185	14.31	30181	17.91						
mb-14868 8	31994	7.99	43053	14.31	28337	17.91						
1408914-00	35423	7.99	48602	14.31	27278	17.91						
1408914-00	32915	7.99	43971	14.31	29066	17.91						
1408914-00	30585	7.99	41164	14.31	28634	17.91						
1408914-00	32104	7.99	45032	14.31	28772	17.91						
1408a29-00	32884	7.99	46093	14.31	27490	17.91						
tt 8-22-20	30797	7.99	43528	14.31	24775	17.91						
b4 8-22-20	29813	7.99	42939	14.30	24580	17.91						
75ng ccv 8	28619	7.99	42517	14.31	24349	17.91						
vcb2 8-23-	28015	8.00	42717	14.31	23936	17.91						
1408a29-00	32656	7.99	44564	14.31	24234	17.91						
1408a29-00	31750	7.99	45414	14.31	24463	17.91						
1408a29-00	31304	8.00	46913	14.31	26034 D	17.91 D	SP					
1408a29-00	30339	7.99	45079	14.31	25252	17.91						
1408a29-00	30293	7.99	44789	14.31	25440	17.91						
1408a29-00	28984	7.99	41708	14.31	26375	17.91						
1408a29-00	29853	7.99	41094	14.31	27850	17.91						
1408a29-00	29505	7.99	41467	14.31	26652	17.91						
1408a29-01	30018	8.00	43601	14.31	24906	17.91						
1408b16-00	28874	8.00	42740	14.31	24085	17.91						
1408b16-00	27975	8.00	41911	14.30	24150	17.90						
1408b16-00	27568	8.00	42586	14.31	24580	17.91						
1408b16-00	27879	7.99	39578	14.31	22384	17.91						
1408b16-00	27313	7.99	41521	14.31	22308	17.91						
1408b16-00	27062	7.99	40641	14.31	22198	17.91						
1408b16-00	26041	7.99	38567	14.30	22700	17.90						
1408b58-00	27232	7.99	40173	14.30	23056	17.91						
1408b58-00	27110	7.99	39814	14.31	22417	17.91						

8/26/14

JC 8-26-14

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408b58-00	26235	7.99	40056	14.31	22301	17.91						
1408b58-00	26347	7.99	40580	14.30	22959	17.91						
1408b58-00	26884	7.99	39161	14.30	22656	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

8-26-14

JC 8-26-14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/22/2014 Time: 10:25

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\pending\082214v\gro\2.0ug gro ccv 8-22-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2813.408	0.100	2.00	2.02	-0.8	20.0	PASS	PASS
BFB	1.006	0.100	50.00	48.32	3.4	30.0	PASS	PASS

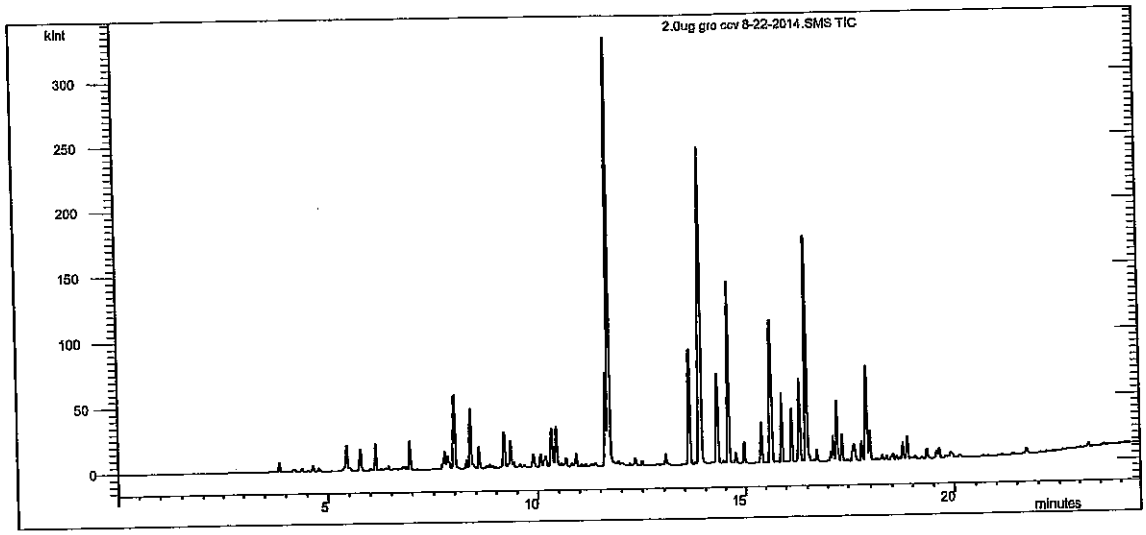
RAA 8.25.14

JC 8.26.14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.0ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/22/2014 10:25:08 AM
Calculation Date:	8/22/2014 10:55:07 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.304	1195	Identified	44729	50.000
GRO	11.000	903	Identified	5.034E6	2.017
BFB	16.335	1375	Identified	44995	48.322

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Revision Log

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8/22/2014 10:49 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/22/2014 10:55 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/22/2014 Time: 11:21

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 8-22-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC	
Dichlorodifluoromethane	1.696	0.100	100.00	124.33	-24.3	30.0	PASS	PASS	
Chloromethane	0.369	0.100	100.00	80.19	19.8	30.0	PASS	PASS	
Vinyl chloride	1.297	0.100	100.00	96.07	3.9	20.0	PASS	PASS	
Chloroethane	0.208	0.100	100.00	92.98	7.0	30.0	PASS	PASS	
Bromomethane	0.507	0.100	100.00	60.63	39.4	30.0	FAIL	PASS	NMR
Trichlorofluoromethane	0.891	0.100	100.00	107.49	-7.5	30.0	PASS	PASS	
1,1-Dichloroethene	1.309	0.100	100.00	109.14	-9.1	20.0	PASS	PASS	
Acetone	0.483	0.100	200.00	198.42	0.8	40.0	PASS	PASS	
Carbon disulfide	1.132	0.100	200.00	241.33	-20.7	40.0	PASS	PASS	
Iodomethane	0.140	0.100	200.00	71.36	64.3	40.0	FAIL	PASS	NR
Methyl tert-butyl ether (MTBE)	1.305	0.100	200.00	208.07	-4.0	30.0	PASS	PASS	
Isopropyl ether	1.560	0.100	200.00	232.54	-16.3	40.0	PASS	PASS	
tert-Butyl alcohol	0.272	0.100	2000.00	2009.36	-0.5	40.0	PASS	PASS	
trans-1,2-DCE	1.537	0.100	100.00	110.62	-10.6	30.0	PASS	PASS	
tert-Butyl ethyl ether	2.963	0.100	200.00	225.22	-12.6	40.0	PASS	PASS	
1,1-Dichloroethane	1.457	0.100	100.00	101.00	-1.0	30.0	PASS	PASS	
Methylene Chloride	1.516	0.100	100.00	103.39	-3.4	30.0	PASS	PASS	
Vinyl Acetate	2.191	0.100	200.00	244.31	-22.2	40.0	PASS	PASS	
2,2-Dichloropropane	0.884	0.100	100.00	110.39	-10.4	30.0	PASS	PASS	
2-Butanone	0.495	0.100	200.00	183.08	8.5	40.0	PASS	PASS	
1,1,1-Trichloroethane	1.560	0.100	100.00	105.25	-5.2	30.0	PASS	PASS	
tert-Amyl methyl ether	1.395	0.100	200.00	203.45	-1.7	40.0	PASS	PASS	
1,1-Dichloropropene	0.702	0.100	100.00	105.67	-5.7	30.0	PASS	PASS	
Carbon Tetrachloride	3.232	0.100	100.00	104.97	-5.0	30.0	PASS	PASS	
cis-1,2-DCE	2.071	0.100	100.00	107.39	-7.4	30.0	PASS	PASS	
Benzene	1.984	0.100	100.00	109.93	-9.9	30.0	PASS	PASS	
Chloroform	1.437	0.100	100.00	116.34	-16.3	20.0	PASS	PASS	
Bromochloromethane	0.518	0.100	100.00	118.83	-18.8	30.0	PASS	PASS	
Trichloroethene (TCE)	1.355	0.100	100.00	112.46	-12.5	30.0	PASS	PASS	
Dibromofluoromethane	1.546	0.100	50.00	44.98	10.0	30.0	PASS	PASS	
1,2-Dichloroethane-d4	4.480	0.100	50.00	48.95	2.1	30.0	PASS	PASS	
1,2-Dichloroethane (EDC)	1.776	0.100	100.00	107.76	-7.8	30.0	PASS	PASS	
1,2-Dichloropropane	1.957	0.100	100.00	106.93	-6.9	20.0	PASS	PASS	
4-Methyl-2-pentanone	2.051	0.100	200.00	218.51	-9.3	40.0	PASS	PASS	
Toluene-d8	1.749	0.100	50.00	44.80	10.4	30.0	PASS	PASS	

8/25·14

8·26·14

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.647	0.100	100.00	100.38	-0.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.698	0.100	200.00	138.65	30.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.233	0.100	100.00	97.88	2.1	30.0	PASS	PASS
cis-1,3-dichloropropene	1.983	0.100	100.00	95.61	4.4	30.0	PASS	PASS
2-Hexanone	0.923	0.100	200.00	202.64	-1.3	40.0	PASS	PASS
Bromodichloromethane	2.486	0.100	100.00	98.79	1.2	30.0	PASS	PASS
Dibromomethane	1.083	0.100	100.00	93.29	6.7	30.0	PASS	PASS
1,3-Dichloropropane	1.365	0.100	100.00	93.40	6.6	30.0	PASS	PASS
trans-1,3-dichloropropene	0.741	0.100	100.00	94.81	5.2	30.0	PASS	PASS
Ethylbenzene	2.862	0.100	100.00	97.30	2.7	20.0	PASS	PASS
mp-Xylenes	2.663	0.100	200.00	197.64	1.2	30.0	PASS	PASS
1,1,2-Trichloroethane	1.642	0.100	100.00	93.94	6.1	30.0	PASS	PASS
Chlorobenzene	1.211	0.300	100.00	93.34	6.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.394	0.100	100.00	98.85	1.1	30.0	PASS	PASS
o-Xylene	2.654	0.100	100.00	99.66	0.3	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.195	0.100	100.00	95.63	4.4	30.0	PASS	PASS
Dibromochloromethane	1.251	0.100	100.00	96.37	3.6	30.0	PASS	PASS
Isopropylbenzene	2.466	0.100	100.00	94.59	5.4	30.0	PASS	PASS
Styrene	1.200	0.100	100.00	94.70	5.3	30.0	PASS	PASS
n-Propylbenzene	6.021	0.100	100.00	98.19	1.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.423	0.100	100.00	99.94	0.1	30.0	PASS	PASS
tert-Butylbenzene	4.546	0.100	100.00	93.10	6.9	30.0	PASS	PASS
2-Chlorotoluene	1.460	0.100	100.00	93.52	6.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.761	0.100	50.00	43.20	13.6	30.0	PASS	PASS
sec-Butylbenzene	2.756	0.100	100.00	80.81	19.2	30.0	PASS	PASS
4-Chlorotoluene	1.555	0.100	100.00	95.59	4.4	30.0	PASS	PASS
Bromobenzene	1.335	0.100	100.00	98.69	1.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.580	0.100	100.00	97.83	2.2	30.0	PASS	PASS
4-Isopropyltoluene	4.645	0.100	100.00	95.12	4.9	30.0	PASS	PASS
Bromoform	1.528	0.100	100.00	88.87	11.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.184	0.100	100.00	88.01	12.0	30.0	PASS	PASS
n-Butylbenzene	4.605	0.100	100.00	100.25	-0.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.824	0.300	100.00	99.62	0.4	30.0	PASS	PASS
1,3-Dichlorobenzene	2.018	0.100	100.00	96.33	3.7	30.0	PASS	PASS
1,4-Dichlorobenzene	1.962	0.100	100.00	96.79	3.2	30.0	PASS	PASS
1,2-Dichlorobenzene	1.934	0.100	100.00	95.34	4.7	30.0	PASS	PASS
Hexachlorobutadiene	4.434	0.100	100.00	91.28	8.7	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.709	0.100	100.00	91.14	8.9	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.596	0.100	100.00	100.93	-0.9	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.584	0.100	100.00	99.50	0.5	30.0	PASS	PASS
Naphthalene	2.931	0.100	100.00	95.01	5.0	30.0	PASS	PASS
2-Methylnaphthalene	2.275	0.100	100.00	100.66	-0.7	40.0	PASS	PASS
1-Methylnaphthalene	2.110	0.100	100.00	96.50	3.5	40.0	PASS	PASS

M 8-25-14

TJC 8-26-14

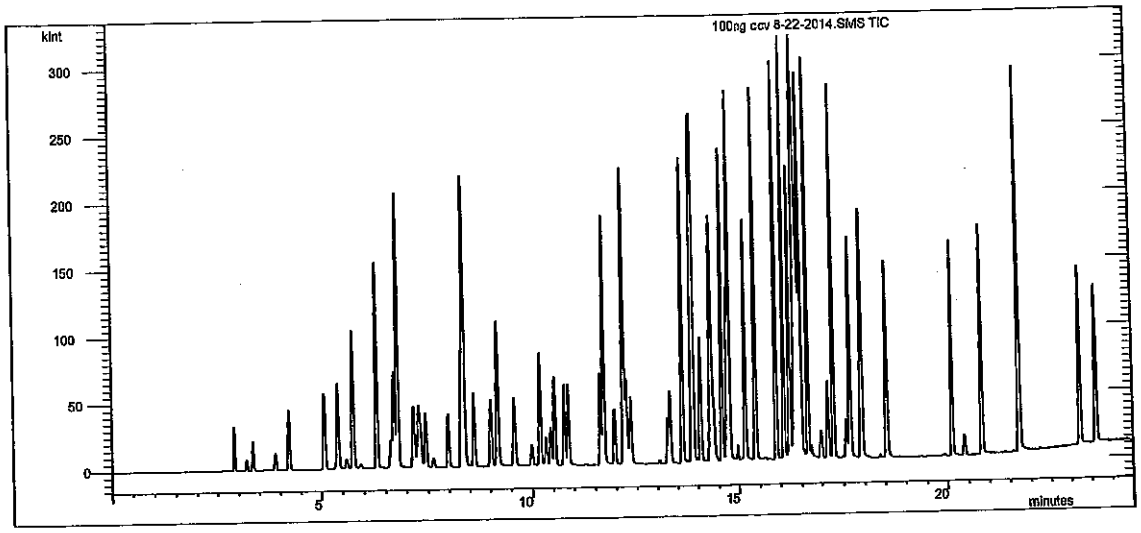
Analyst: cadg

8260B/624 Report

Sample Name: 100ng ccv **Operator Name:** Rene Aguilera **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** V-54-0466 **Acquisition Date:** 8/22/2014 11:21:17 AM

Calculation Date: 8/22/2014 11:45:47 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.990	634	Identified	28861	50.000
Benzene-d5-, chloro-	14.304	1193	Identified	45322	50.000
1,4-Dichlorobenzene-d4	17.908	1515	Identified	24932	50.000
Dichlorodifluoromethane	2.898	184	Identified	97923	124.327
Chloromethane	3.196	210	Identified	21309	80.191
Vinyl chloride	3.344	224	Identified	74839	96.072
Chloroethane	3.877	271	Identified	11991	92.976
Bromomethane	3.896	273	Identified	29259	60.630
Trichlorofluoromethane	4.217	301	Identified	51457	107.486
1,1-Dichloroethene	5.078	377	Identified	75577	109.141
Acetone	5.355	402	Identified	55792	198.419
Carbon disulfide	5.392	405	Identified	130723	241.333
Iodomethane	5.594	423	Identified	16144	71.362
Methyl tert-butyl ether (MTBE)	5.744	436	Identified	150614	208.073
Isopropyl ether	6.305	485	Identified	180053	232.536
tert-Butyl alcohol	6.632	514	Identified	314568	2009.359
trans-1,2-DCE	6.707	521	Identified	88713	110.623
tert-Butyl ethyl ether	6.793	529	Identified	342068	225.218
1,1-Dichloroethane	7.166	562	Identified	84089	100.996
Methylene Chloride	7.283	572	Identified	87521	103.392
Vinyl Acetate	7.341	577	Identified	252955	244.309
2,2-Dichloropropane	7.447	586	Identified	51040	110.386
2-Butanone	7.630	603	Identified	57183	183.084
1,1,1-Trichloroethane	8.305	662	Identified	90059	105.247

1

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.363	667	Identified	161068	203.446
1,1-Dichloropropene	8.378	668	Identified	40504	105.672
Carbon Tetrachloride	8.606	689	Identified	186560	104.971
cis-1,2-DCE	9.024	726	Identified	119545	107.392
Benzene	9.187	740	Identified	114548	109.930
Chloroform	9.581	775	Identified	82963	116.340
Bromochloromethane	9.995	811	Identified	29906	118.833
Trichloroethene (TCE)	10.185	828	Identified	78208	112.462
Dibromofluoromethane	10.324	841	Identified	44633	44.980
1,2-Dichloroethane-d4	10.441	851	Identified	129308	48.949
1,2-Dichloroethane (EDC)	10.534	859	Identified	102526	107.756
1,2-Dichloropropane	10.762	880	Identified	112982	106.934
4-Methyl-2-pentanone	10.859	888	Identified	236833	218.507
Toluene-d8	11.628	956	Identified	79252	44.805
Toluene	11.709	964	Identified	239945	100.375
2-Chloroethyl vinyl ether	11.968	987	Identified	126517	138.651
Tetrachloroethene (PCE)	12.172	1005	Identified	111798	97.878
cis-1,3-dichloropropene	12.178	1005	Identified	179788	95.608
2-Hexanone	12.179	1005	Identified	167307	202.645
Bromodichloromethane	12.247	1011	Identified	225322	98.787
Dibromomethane	12.351	1020	Identified	98139	93.292
1,3-Dichloropropane	13.250	1100	Identified	123715	93.405
trans-1,3-dichloropropene	13.312	1105	Identified	67169	94.809
Ethylbenzene	13.609	1132	Identified	259396	97.302
mp-Xylenes	13.861	1154	Identified	482709	197.644
1,1,2-Trichloroethane	14.063	1172	Identified	148821	93.939
Chlorobenzene	14.328	1195	Identified	109729	93.340
1,2-Dibromoethane (EDB)	14.384	1200	Identified	126397	98.855
o-Xylene	14.577	1218	Identified	240545	99.659
1,1,1,2-Tetrachloroethane	14.706	1229	Identified	199004	95.629
Dibromochloromethane	14.736	1232	Identified	113367	96.369
Isopropylbenzene	14.768	1234	Identified	223516	94.588
Styrene	15.161	1270	Identified	108814	94.698
n-Propylbenzene	15.403	1291	Identified	300226	98.188
1,3,5-Trimethylbenzene	15.895	1335	Identified	220548	99.936
tert-Butylbenzene	16.090	1352	Identified	226673	93.101
2-Chlorotoluene	16.238	1365	Identified	72820	93.515
4-Bromofluorobenzene	16.335	1374	Identified	43896	43.199
sec-Butylbenzene	16.365	1377	Identified	137407	80.808
4-Chlorotoluene	16.401	1380	Identified	77549	95.592
Bromobenzene	16.441	1383	Identified	66555	98.692
1,2,4-Trimethylbenzene	16.493	1388	Identified	228363	97.832
4-Isopropyltoluene	16.654	1402	Identified	231620	95.122
Bromoform	16.985	1432	Identified	76180	88.868
1,2,3-Trichloropropane	17.155	1448	Identified	59017	88.008
n-Butylbenzene	17.282	1459	Identified	229641	100.253
1,1,2,2-Tetrachloroethane	17.577	1485	Identified	90960	99.624
1,3-Dichlorobenzene	17.662	1493	Identified	100609	96.328
1,4-Dichlorobenzene	17.933	1517	Identified	97840	96.788
1,2-Dichlorobenzene	18.540	1571	Identified	96435	95.338

Inj. Notes: V-54-0466

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.123	1711	Identified	221078	91.280
1,2-Dibromo-3-chloropropane	20.412	1737	Identified	35357	91.135
1,2,4-Trichlorobenzene	20.822	1773	Identified	79577	100.935
1,2,3-Trichlorobenzene	21.726	1854	Identified	78971	99.500
Naphthalene	21.732	1854	Identified	146130	95.015
2-Methylnaphthalene	23.217	1990	Identified	113439	100.664
1-Methylnaphthalene	23.605	2026	Identified	105198	96.500

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Revision Log
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8/22/2014 11:45 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

:List: C:\VarianWS\080114v.smp

ed: Fri Aug 01 08:33:12 2014
led: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time@7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By:

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pql: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	rr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pql: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VQL: 22.27ns
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

KSH 8/4/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JH 8-4-14

Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH

8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

8-4-14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 8/1/2014 8/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 22:52 22:52

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.262	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JH 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

8/4/2014 9:03

Analyst: KJH

JAF 9.4.14 KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

8.4.14

8/4/2014 9:03

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

J - w hits on different cov.

J

J 8-4-14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

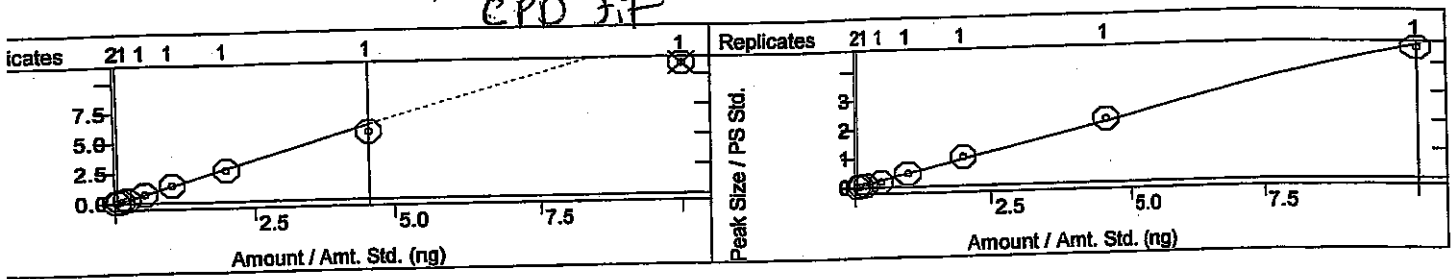
KSH 8/4/14

Analyst: KJH

hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
mple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ik Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
+1.3682x -0.0093

CPD Fit

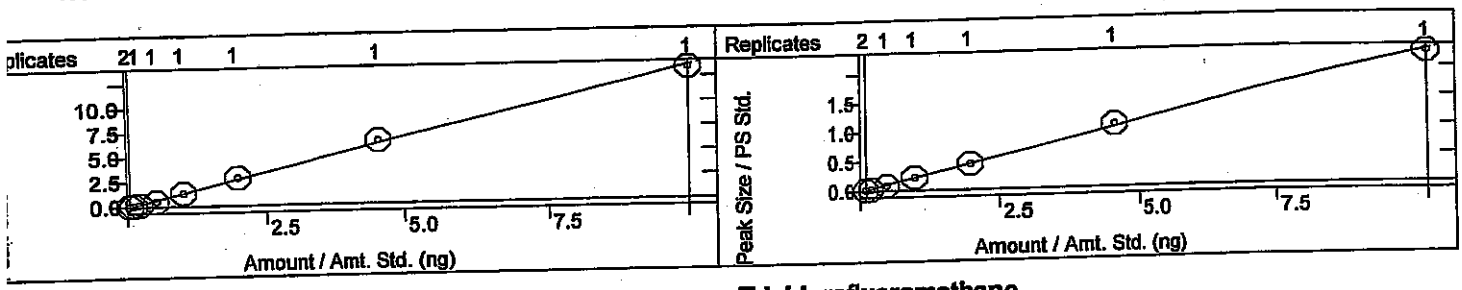


Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

nyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

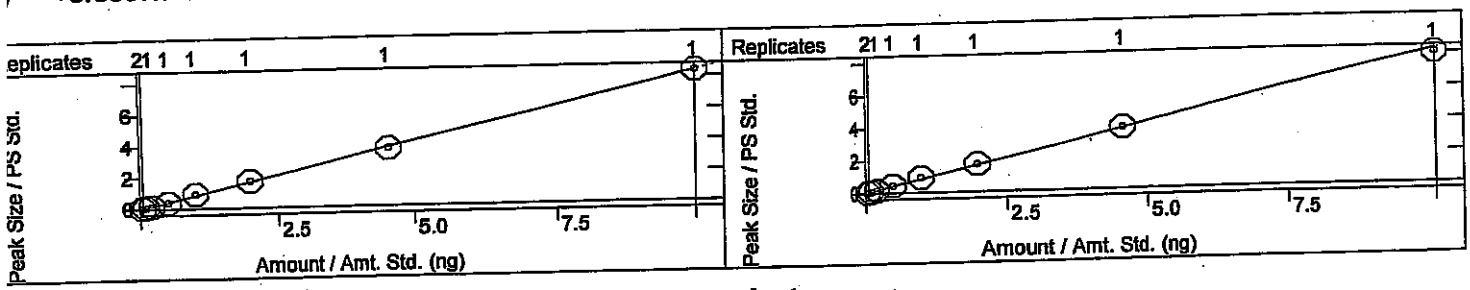
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD Fit



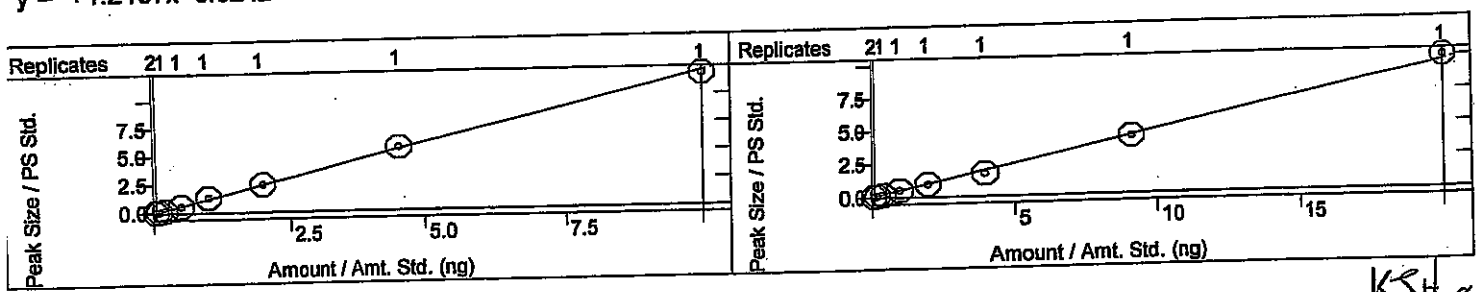
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
= +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

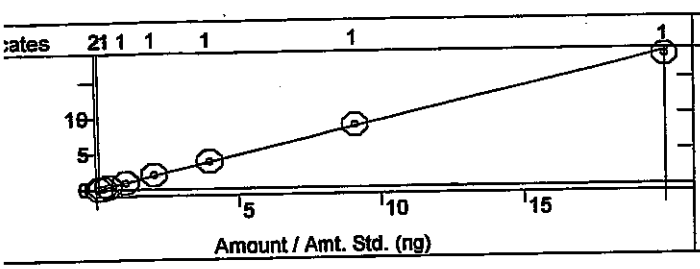
Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



KSH 8/4/14

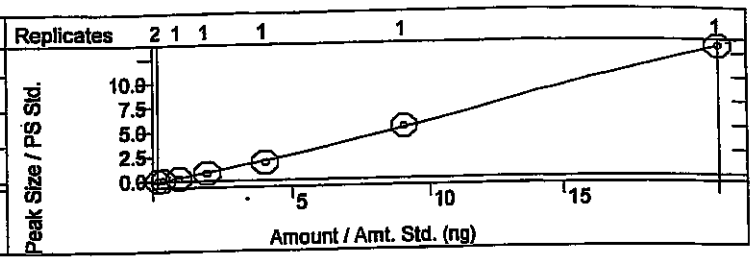
iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
x Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
p. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

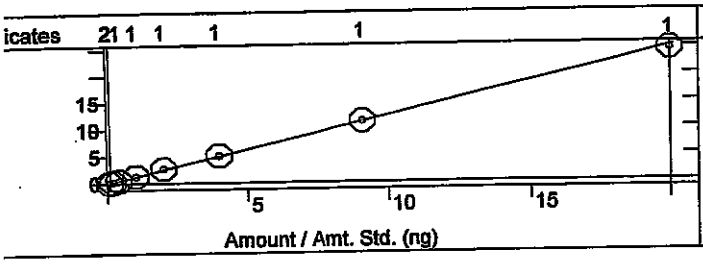


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

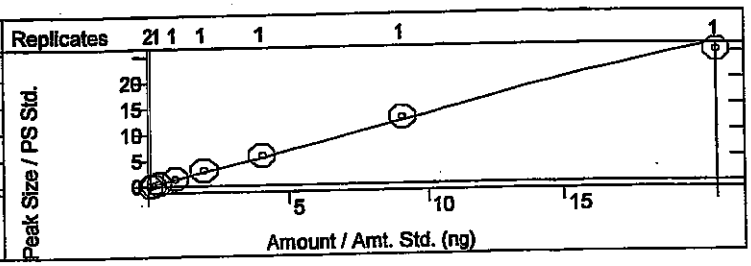
CPD fit



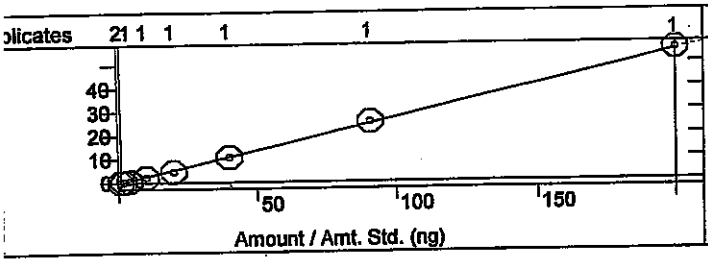
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152



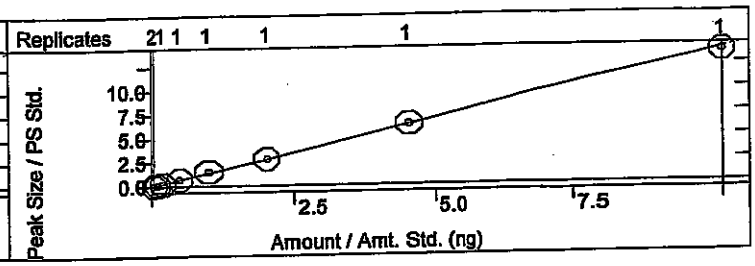
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



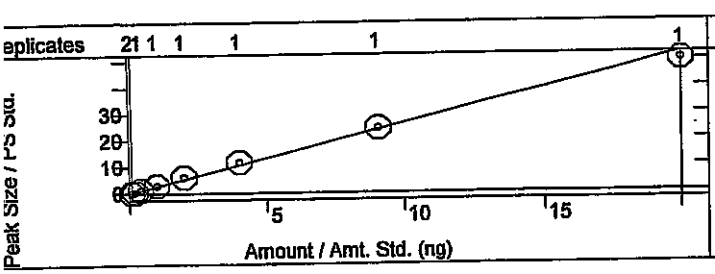
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051



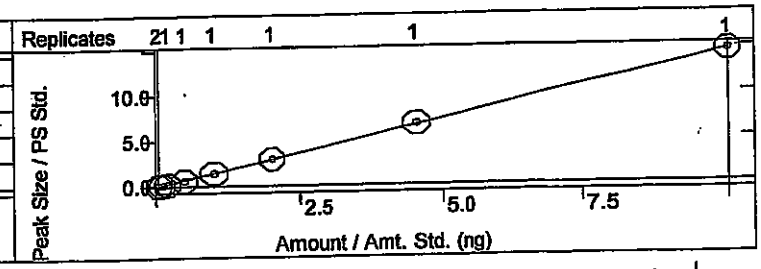
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155



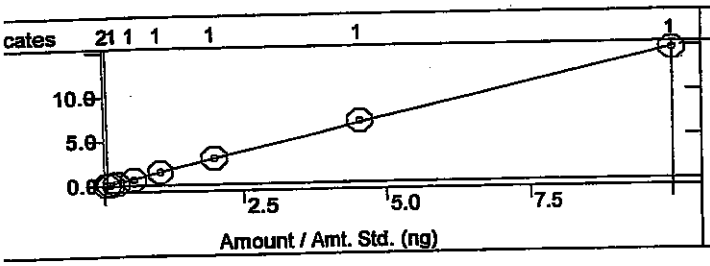
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



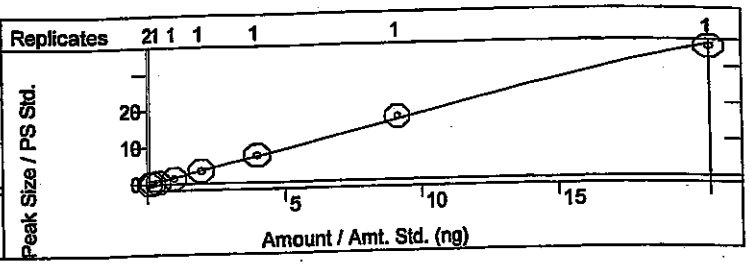
KSH 8/4/14

iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
iple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

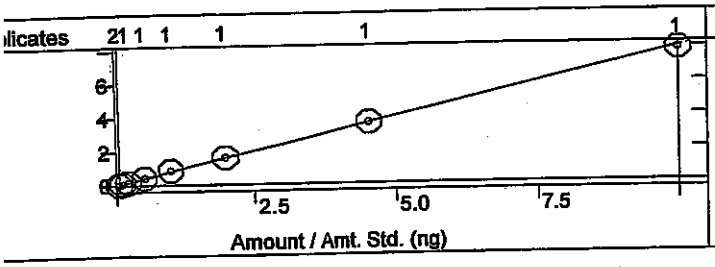
hylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278



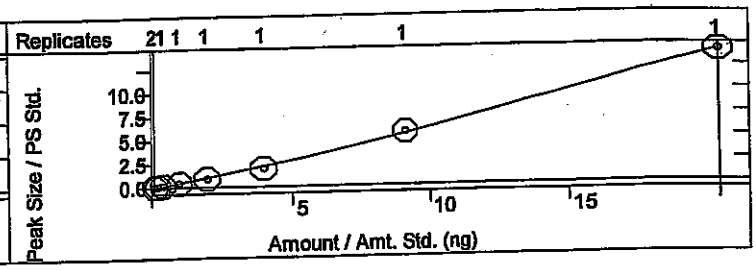
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



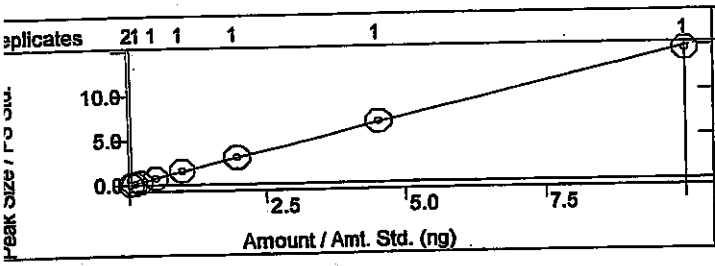
-Dichloropropane
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095



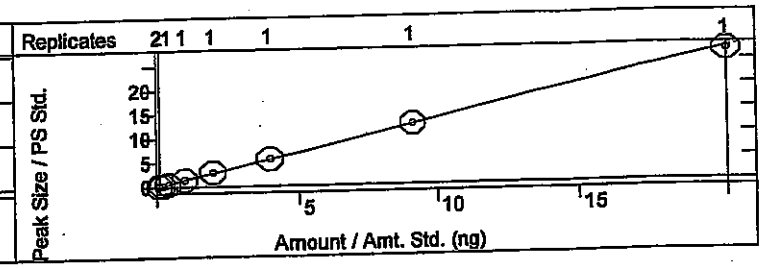
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



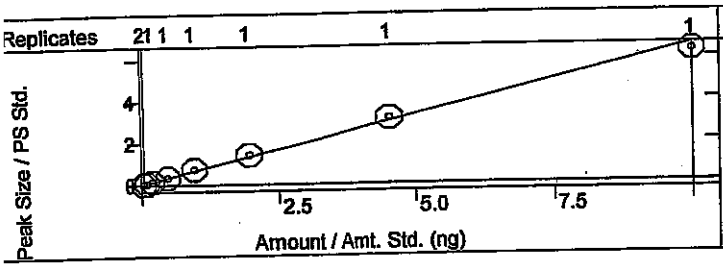
,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066



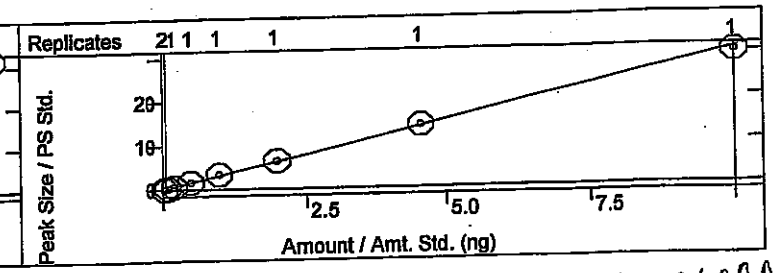
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

iod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
aic Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
x Measurement:	Area		

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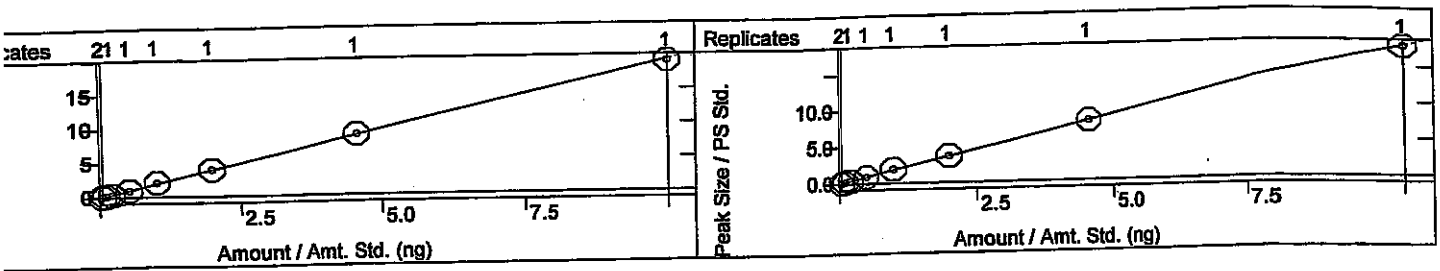
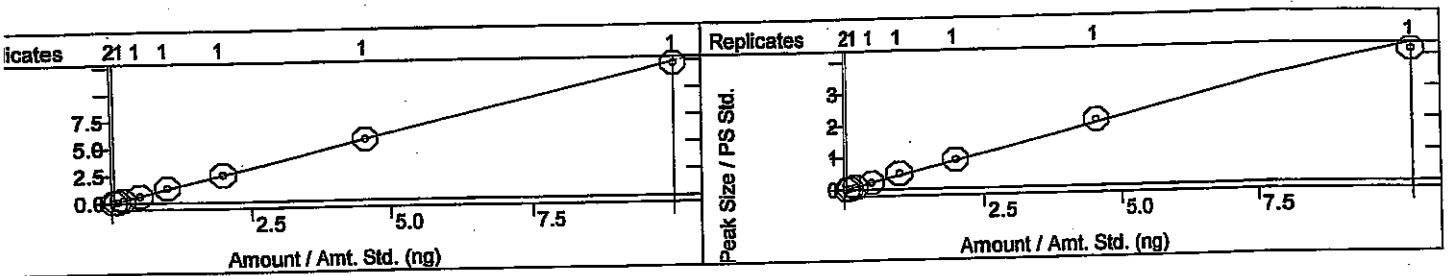
1,2-DCE
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



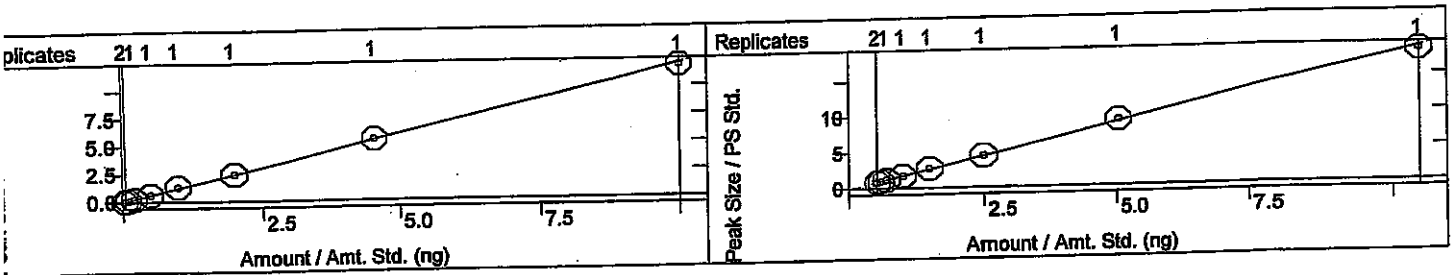
loroform
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
: +1.2389x -0.0082

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



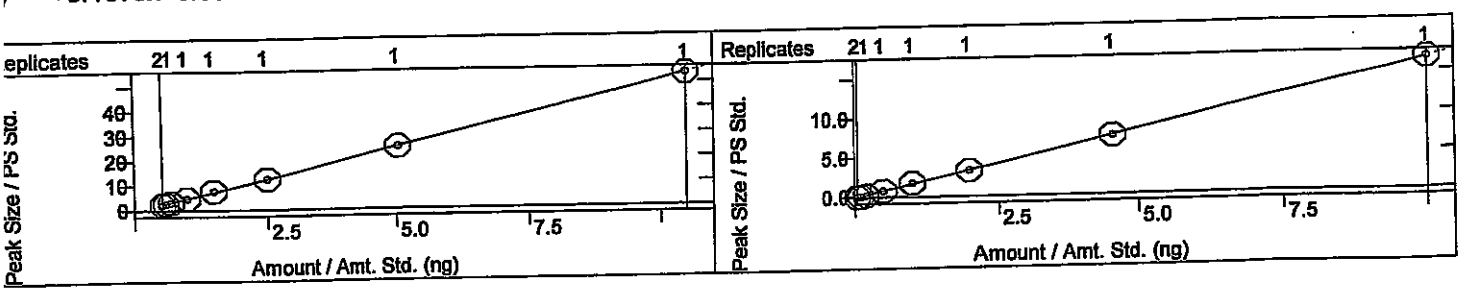
ichloroethene (TCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034

Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
/ = +5.1573x -0.5686

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
x Measurement:	Area	Calibration Type:	Internal Standard Analysis

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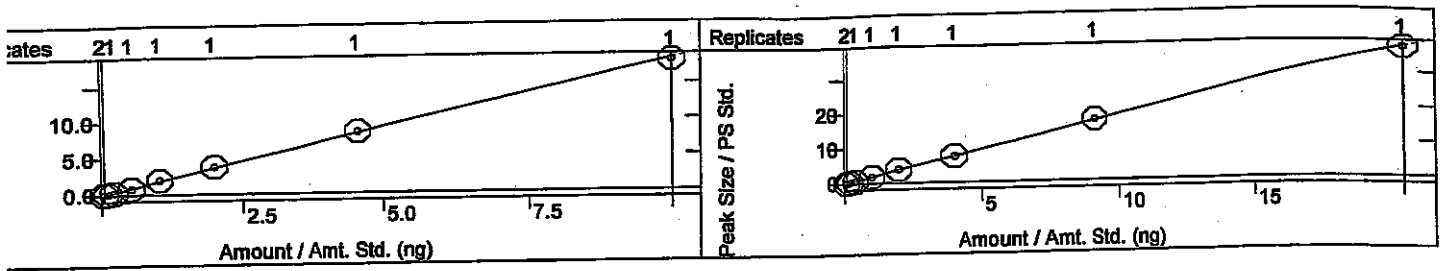
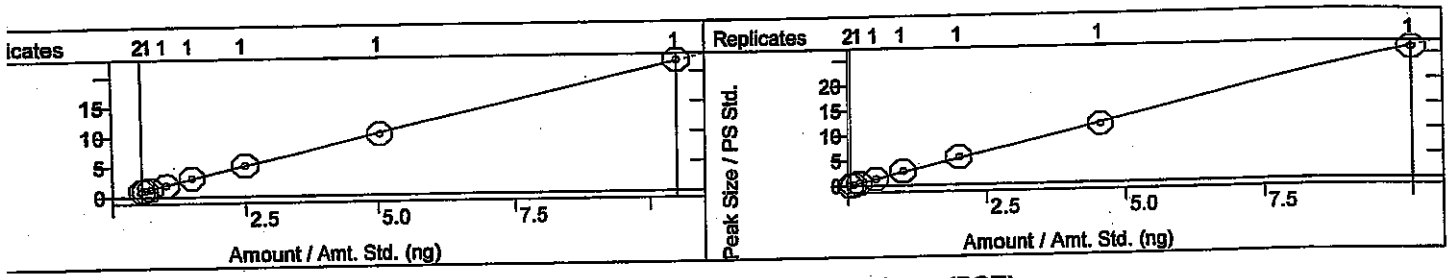
Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



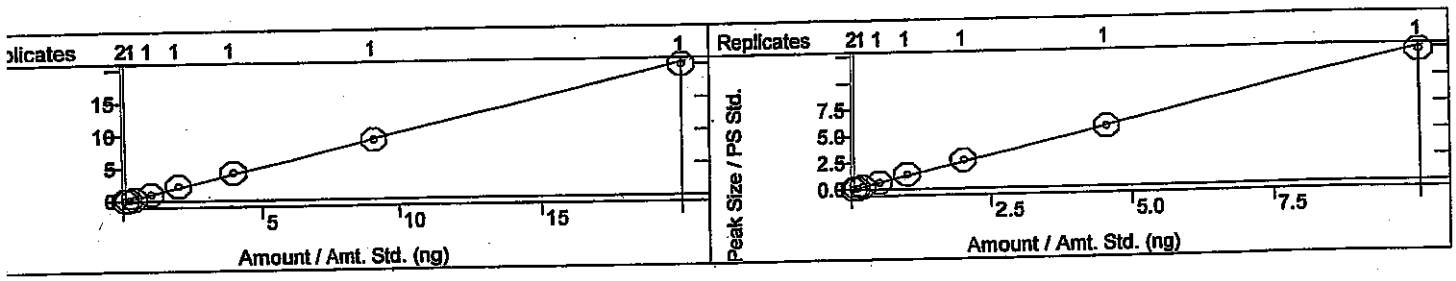
uene-d8
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
+2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



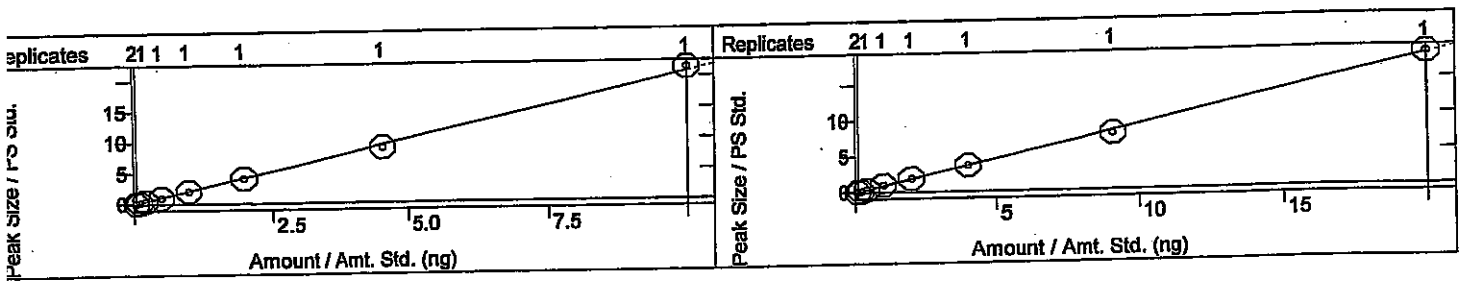
Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
= +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



hod:	c:\varianws\methods\080114v 8260,624.mth		
aic Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

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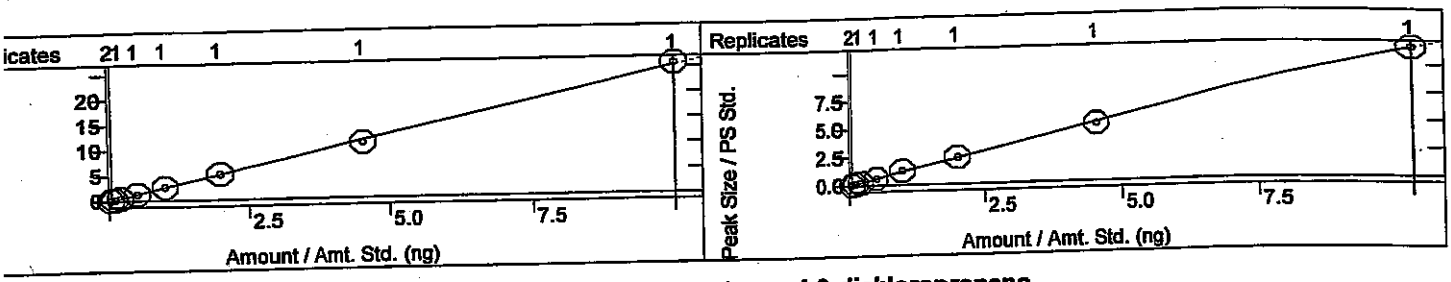
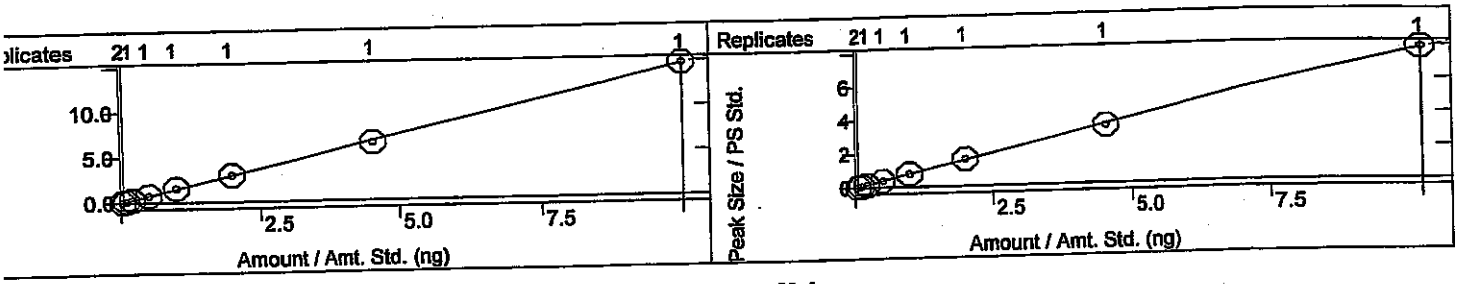
›modichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



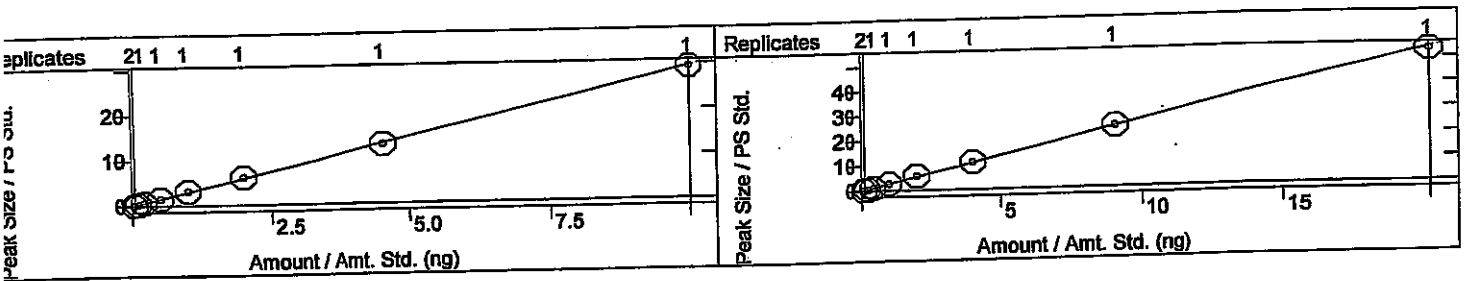
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



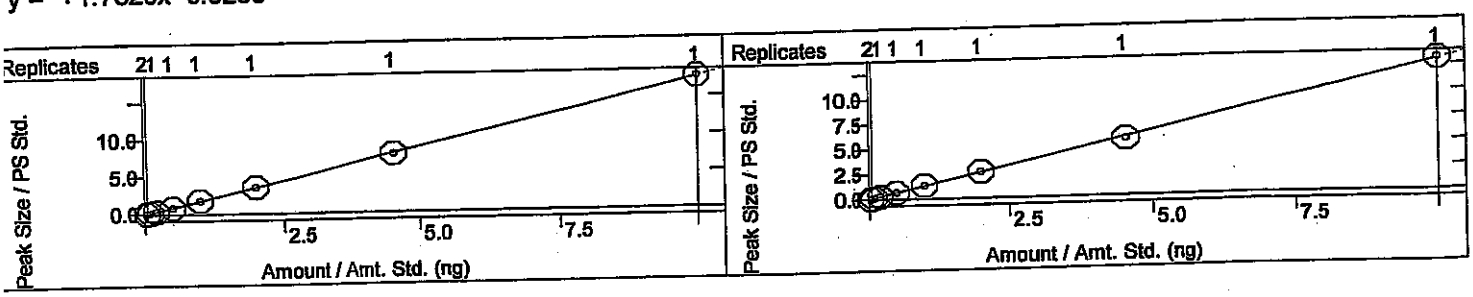
thylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



thod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
calc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

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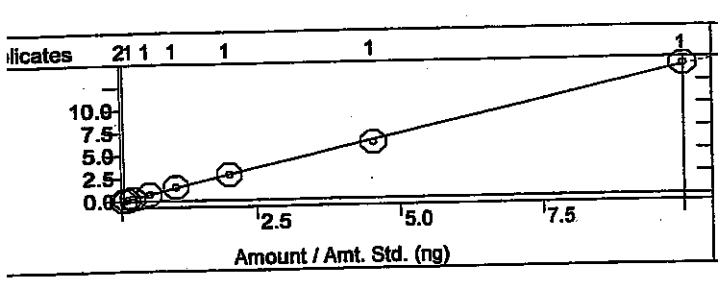
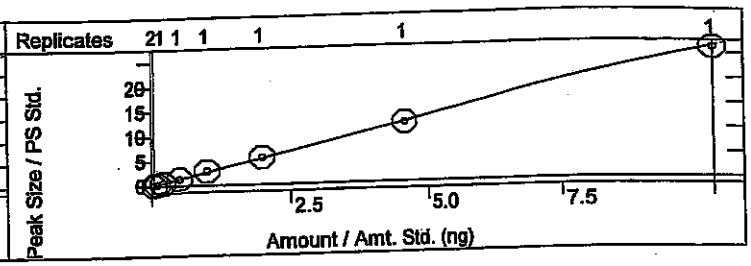
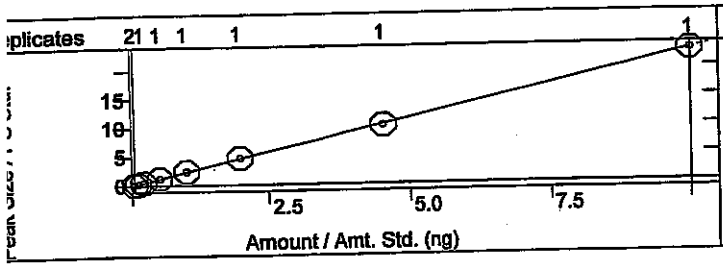
2-Dibromoethane (EDB)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



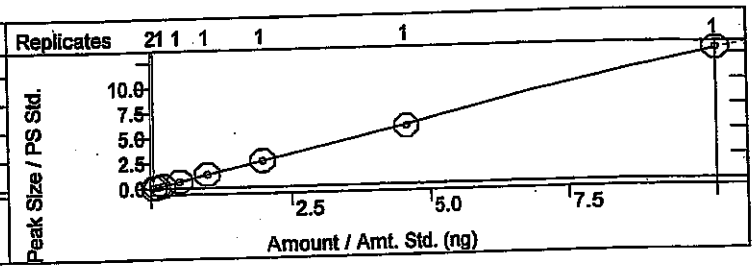
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



,1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016

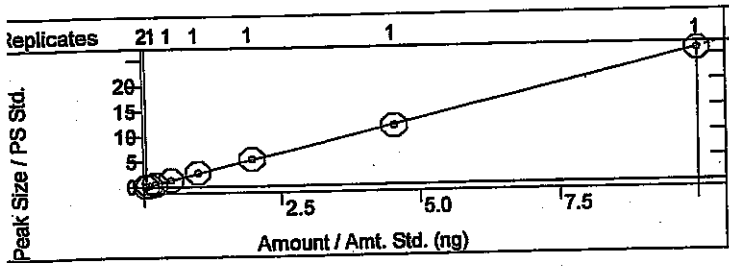


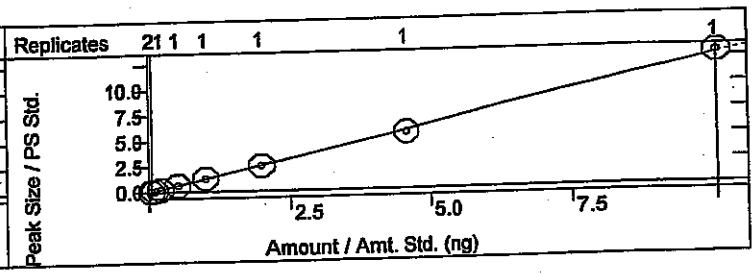
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



sopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035

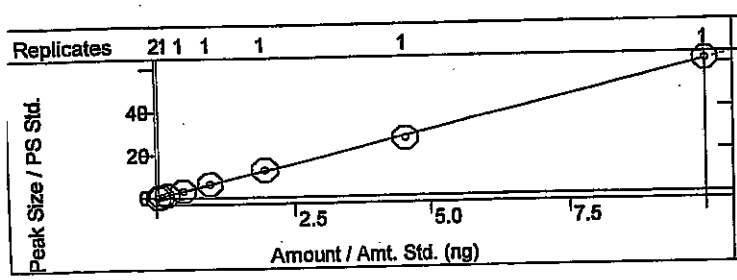
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114

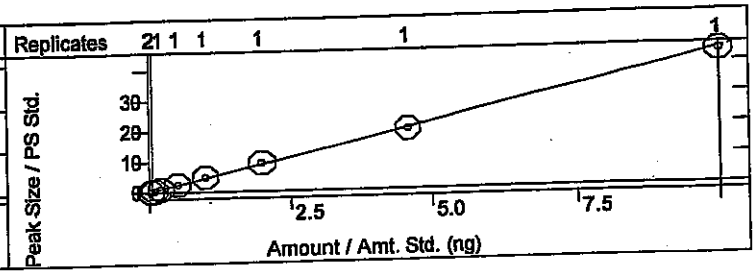




n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332





hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ik Measurement:	Area	Calibration Type:	Internal Standard Analysis

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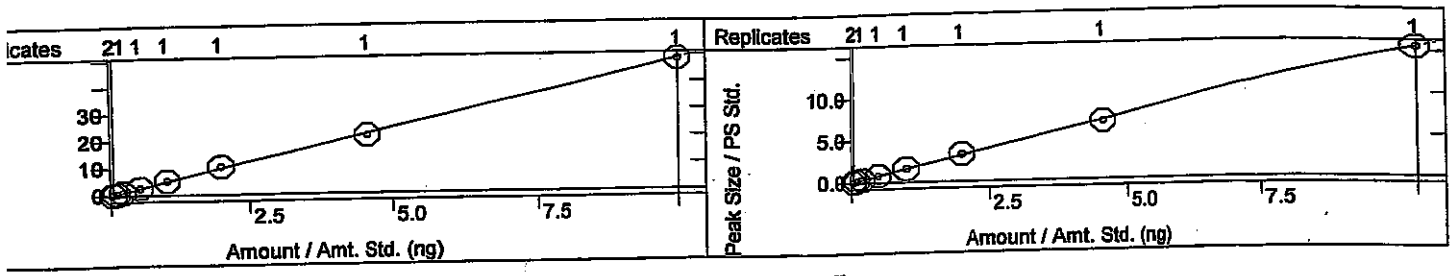
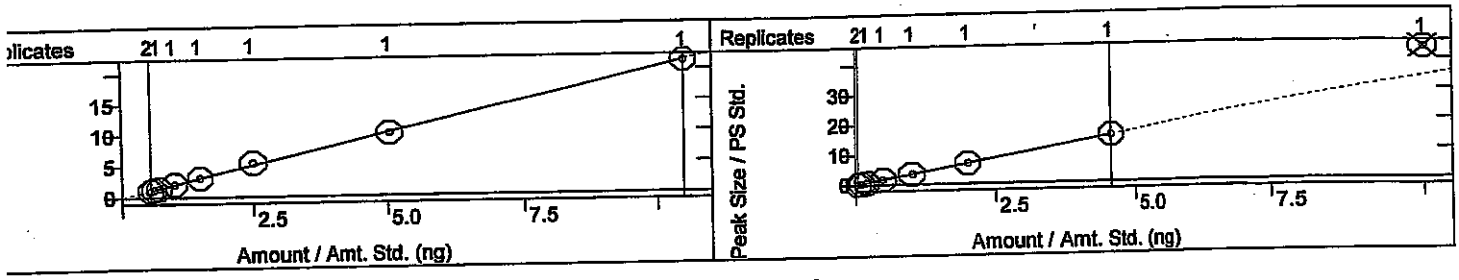
-Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



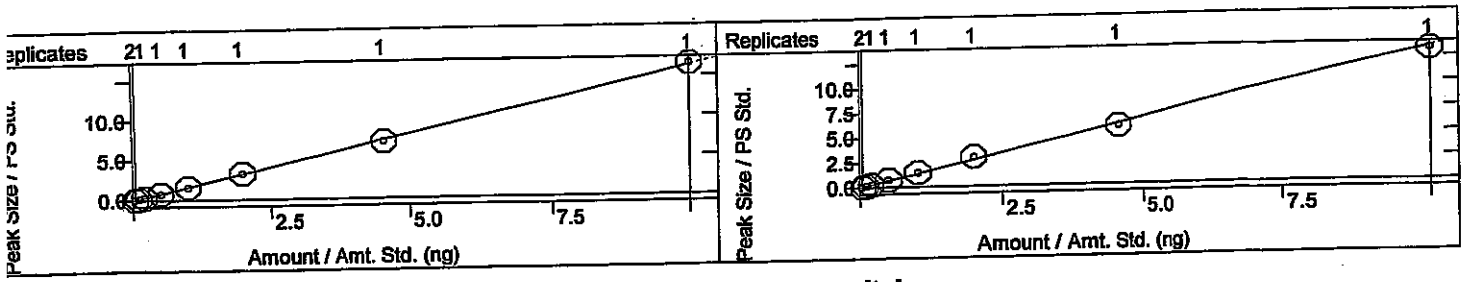
Bromofluorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



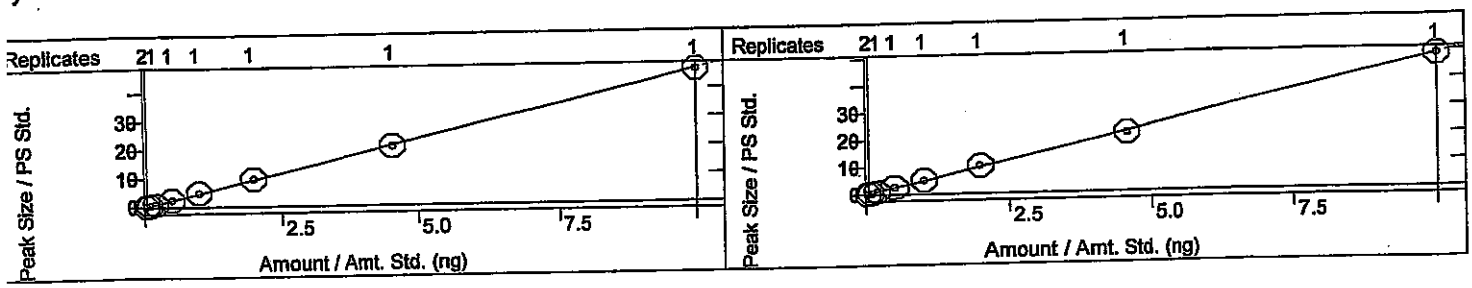
-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

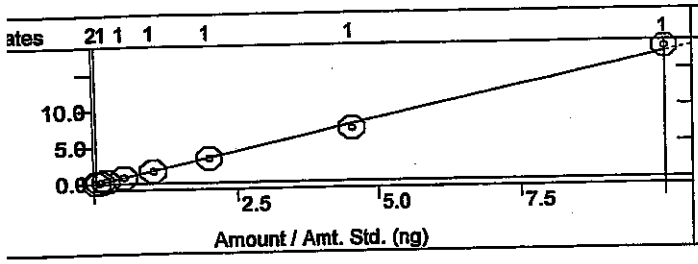
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045

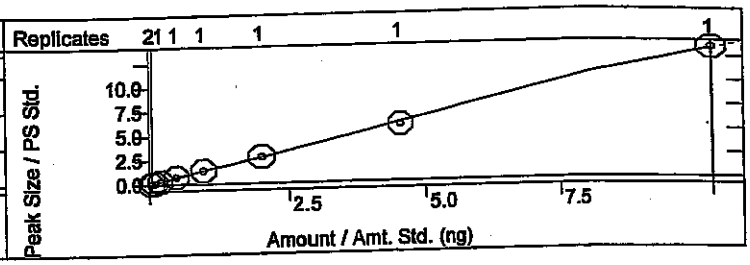


od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ole List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

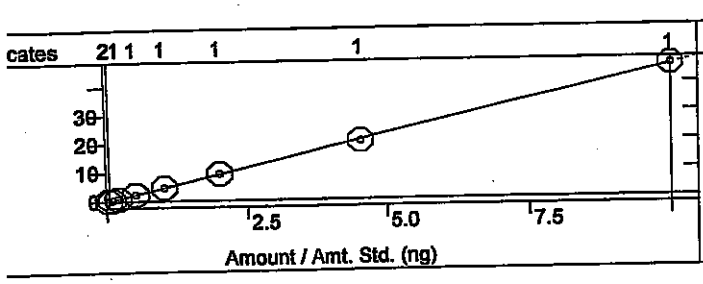
noform
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156

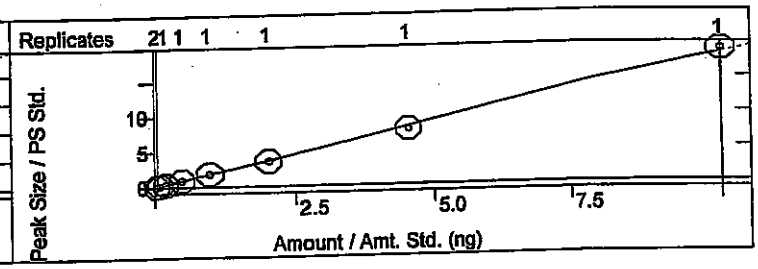




1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079

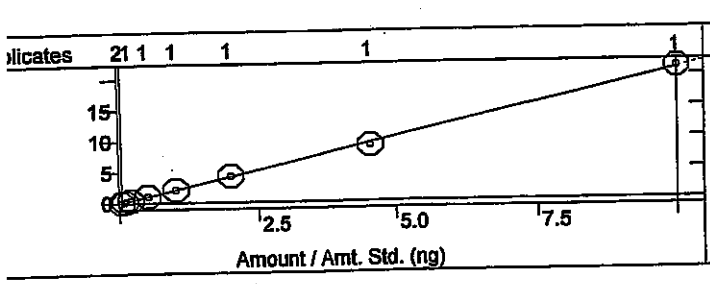
utylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548

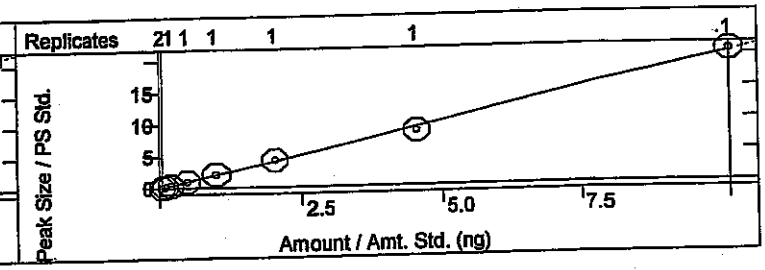




1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160

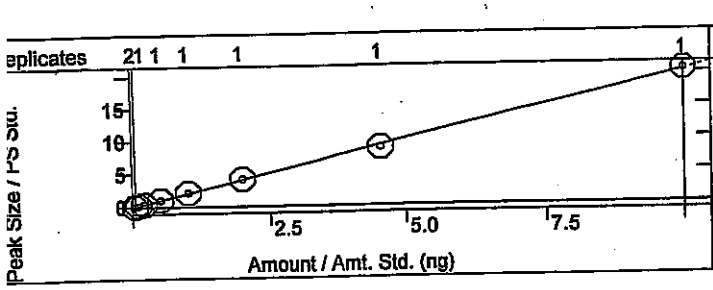
-Dichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059

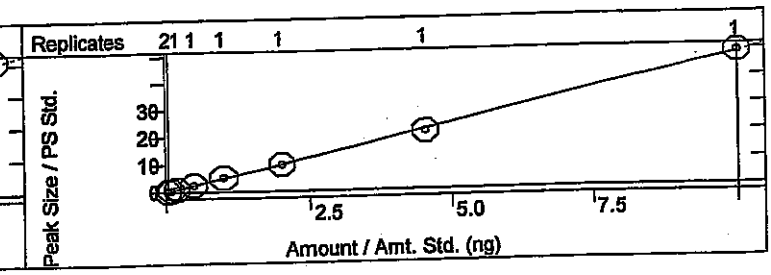




1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108

,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
= +2.0262x +0.0044





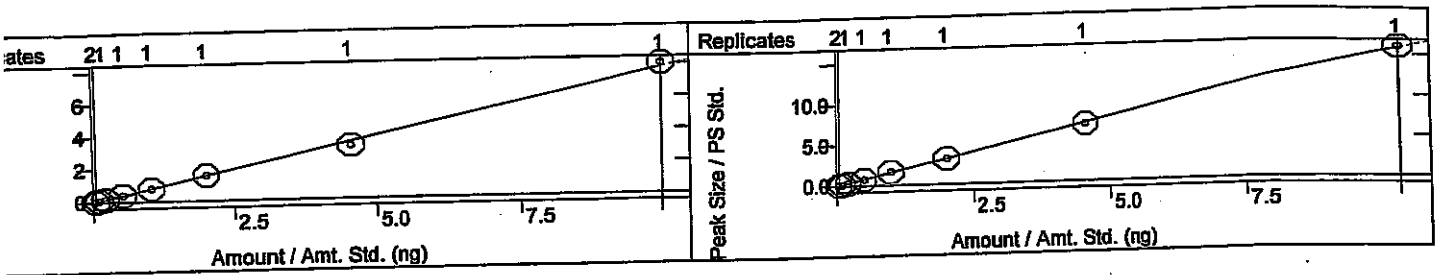
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

od:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
lc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ole List:	N/A	Detector:	2000 Mass Spec
ience:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
: Measurement:	Area		

KSH 8/4/14

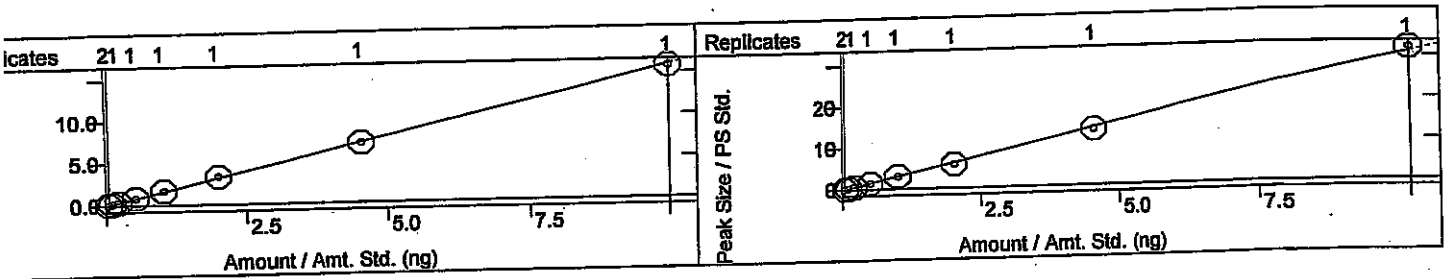
Dibromo-3-chloropropane
/e Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



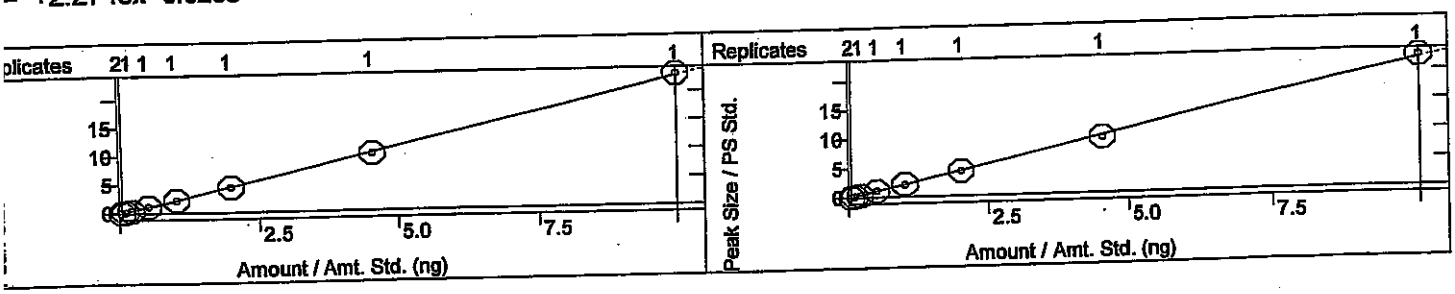
,3-Trichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



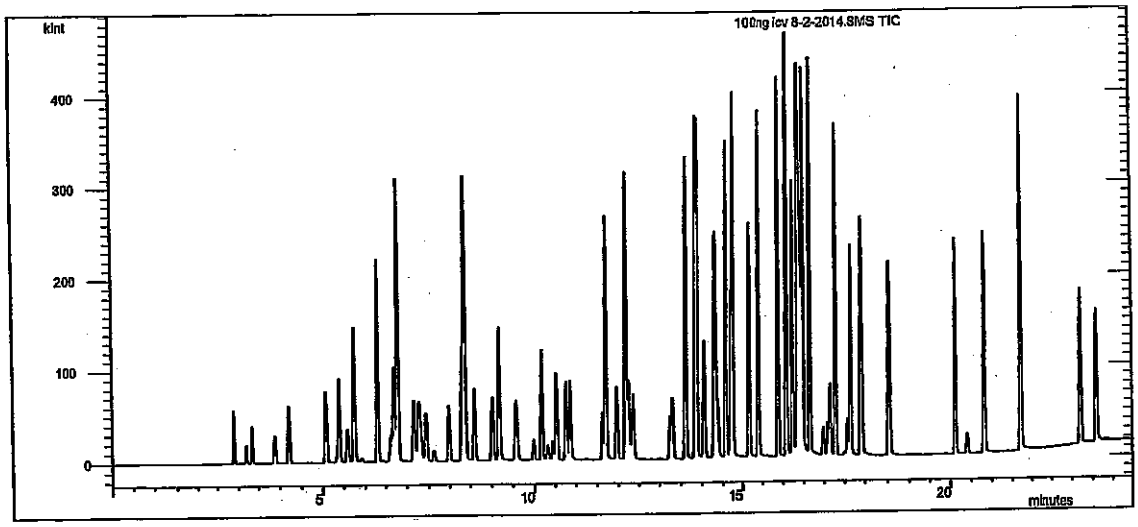
Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

.an Star Workstation - Generic Samplelist ---

)leList: C:\VarianWS\070614v.smp

ated: Sun Jul 06 15:00:06 2014
lfied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes	
1	b1	below	
	Notes All injections contain V-52-0465		
2	b2	none	
3	b3	none	tune@4:10
4	25ng annex crv	below	
	Notes V-11-8034		
5	50ng annex crv	below	
	Notes V-11-8034		
6	100ng annex crv	below	
	Notes V-11-8034		
7	150ng annex crv	below	
	Notes V-11-8034		
8	227.27ng annex crv	below	
	Notes V-11-8034		
9	500ng annex crv	below	
	Notes V-11-8034		
10	750ng annex crv	below	
	Notes V-11-8034		
11	b4	none	
12	b5	none	
13	227.27ng annex icv	below	
	Notes V-11-8035		@ 8:52
14	b6	none	
15	b7	none	tune@9:40
16	0.25ug gro crv	below	
	Notes V-18-2047		
17	0.5ug gro crv	below	
	Notes V-18-2047		
18	1ug gro crv	below	
	Notes V-18-2047		
19	2.5ug gro crv	below	
	Notes V-18-2047		
20	5ug gro crv	below	
	Notes V-18-2047		
21	10ug gro crv	below	
	Notes V-18-2047		
22	b8	none	
23	20ug gro crv	below	
	Notes V-18-2047		
24	b9	none	
25	40ug gro crv	below	
	Notes V-18-2047		
26	b10	none	
27	b11	none	
28	2.5ug gro icv	below	
	Notes V-18-2036		
29	b12	none	
30	crtm	below	
	Notes V-18-1994		
31	crtm full	below	@5:15
	Notes V-18-1781		
32	b13	none	
33			

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL: 500ng

Analyst: 7-7-14

QA: NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: and .

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

JB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

AA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
										Average %RSD	20.6		

AA 7-7-14

JJB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

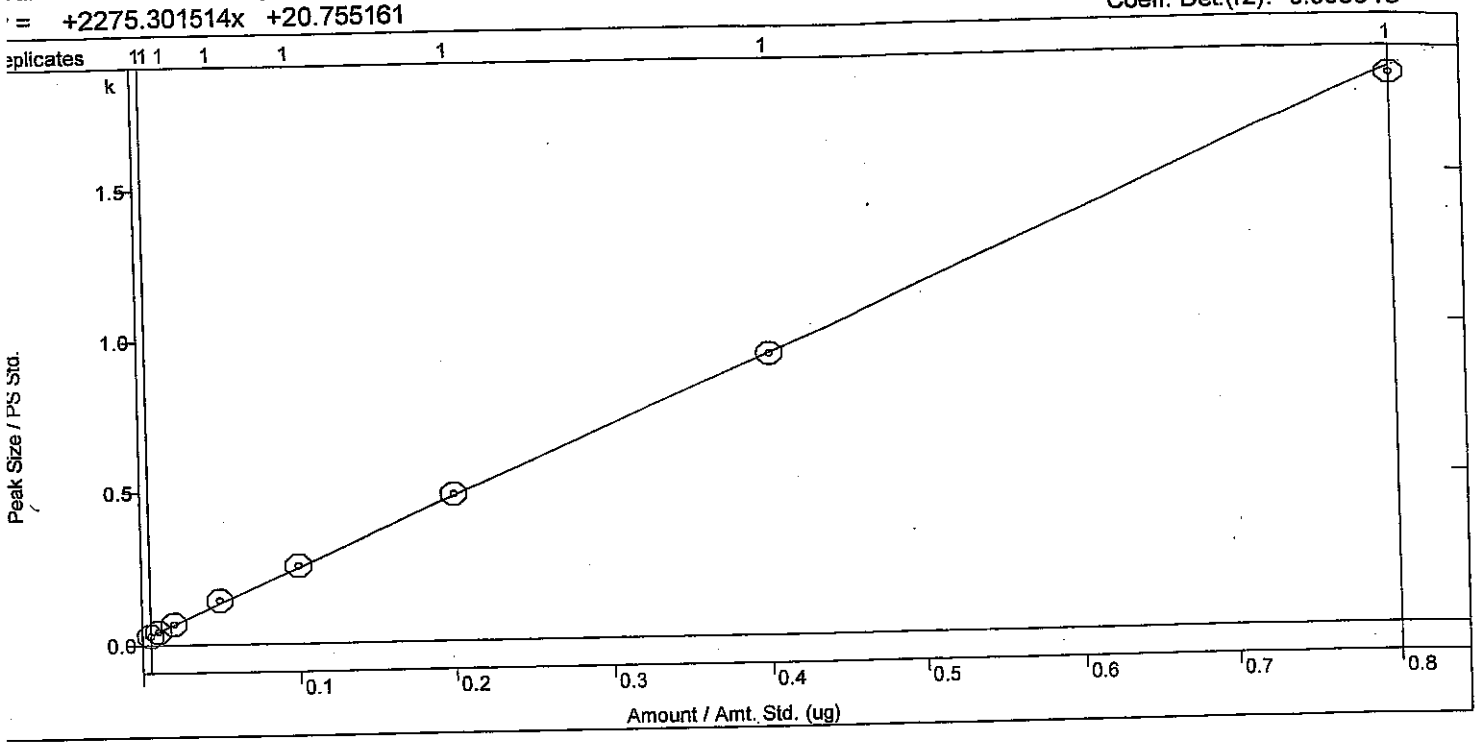
alibration Curves Report

ethod:	c:\varianws\methods\070614v gro.mth		
ecalc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ample List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
equence:	N/A	Detector:	2000 Mass Spec
IS Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
y = +2275.301514x +20.755161

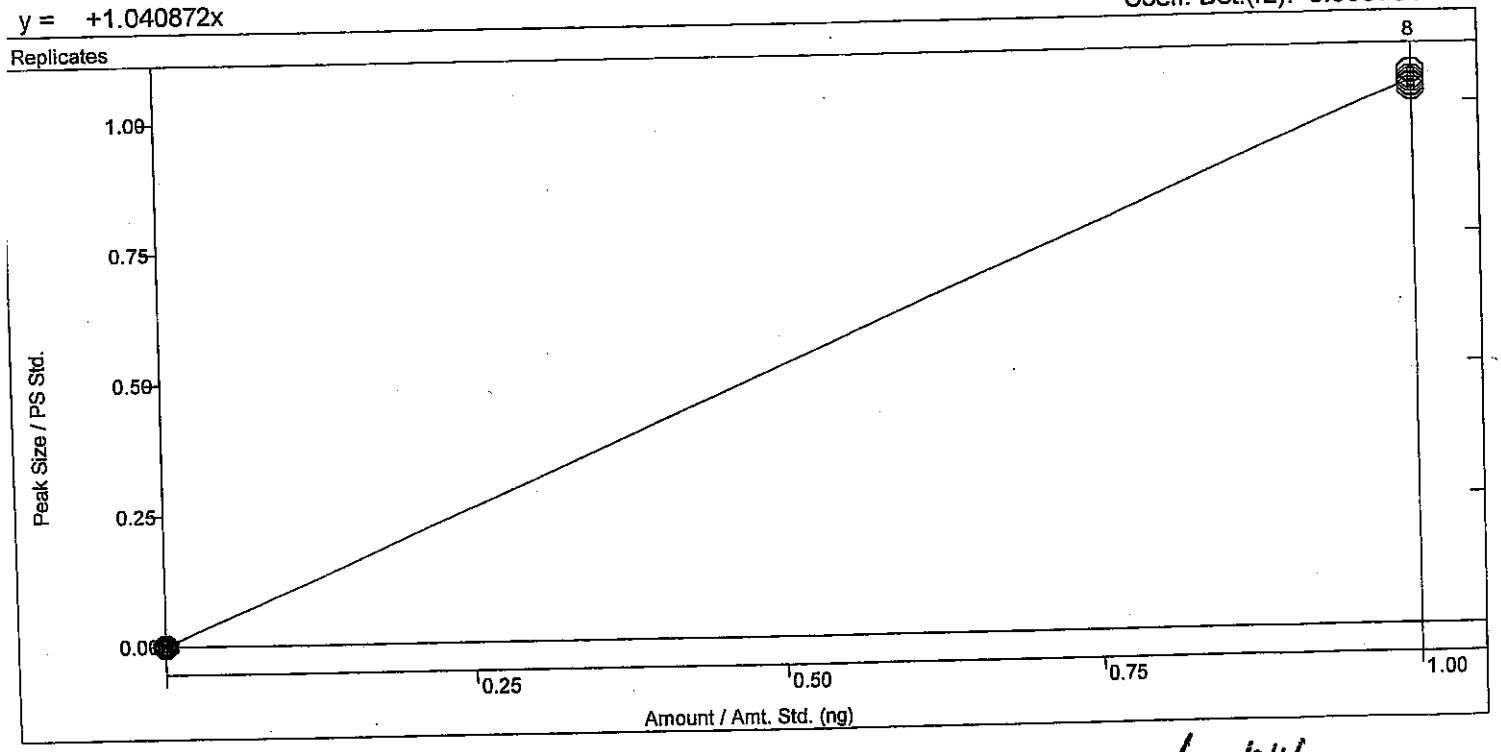
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

LVL-3

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408B56**
Date Reported: 8/26/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408B56

Lab ID: 1408B56-001
Client Sample ID: FFOR-CF-0051
Collection Date: 08/21/14 3:21:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Acenaphthylene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Aniline	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Anthracene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Benz(a)anthracene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Benzo(a)pyrene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Benzo(b)fluoranthene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Benzo(g,h,i)perylene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Benzo(k)fluoranthene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Bis(2-chloroethoxy)methane	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Bis(2-chloroethyl)ether	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Bis(2-chloroisopropyl)ether	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Bis(2-ethylhexyl)phthalate	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Bromophenyl phenyl ether	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Butyl benzyl phthalate	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Carbazole	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Chloro-3-methylphenol	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Chloroaniline	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Chloronaphthalene	ND	2.8		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Chlorophenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Chlorophenyl phenyl ether	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Chrysene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Di-n-butyl phthalate	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Di-n-octyl phthalate	ND	4.5		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Dibenz(a,h)anthracene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Dibenzofuran	1.1	2.2	J	mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
1,2-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
1,3-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
1,4-Dichlorobenzene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
3,3'-Dichlorobenzidine	ND	2.8		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Diethyl phthalate	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Dimethyl phthalate	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4-Dichlorophenol	ND	4.5		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4-Dimethylphenol	ND	3.4		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4,6-Dinitro-2-methylphenol	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4-Dinitrophenol	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4-Dinitrotoluene	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,6-Dinitrotoluene	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408B56

Comment: DUE 08/26/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Fluorene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Hexachlorobenzene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Hexachlorobutadiene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Hexachlorocyclopentadiene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Hexachloroethane	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Indeno(1,2,3-cd)pyrene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Isophorone	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Methylnaphthalene	27	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Methylphenol	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
3+4-Methylphenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
N-Nitrosodi-n-propylamine	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
N-Nitrosodimethylamine	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
N-Nitrosodiphenylamine	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Naphthalene	14	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Nitroaniline	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
3-Nitroaniline	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Nitroaniline	ND	4.5		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Nitrobenzene	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2-Nitrophenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
4-Nitrophenol	ND	2.8		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Pentachlorophenol	ND	4.5		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Phenanthrene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Phenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Pyrene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Pyridine	ND	5.6		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
1,2,4-Trichlorobenzene	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4,5-Trichlorophenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
2,4,6-Trichlorophenol	ND	2.2		mg/Kg-dry	10	14932	08/26/14 12:03:43 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	10	14932	08/26/14 12:03:43 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	10	14932	08/26/14 12:03:43 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	10	14932	08/26/14 12:03:43 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	10	14932	08/26/14 12:03:43 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	10	14932	08/26/14 12:03:43 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	10	14932	08/26/14 12:03:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

List: C:\VarianWS\042514crv.smp

d: Fri Apr 25 09:05:43 2014
ed: Fri Apr 25 15:09:46 2014

****

	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
	rb-827.0	1	below	1	1.0
	Notes st110-0598				
	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
	5ppm crv	1	below	3	1.0
	Notes st110-0589				
	10ppm crv	1	below	4	1.0
	Notes st110-0590				
	20ppm crv	1	below	5	1.0
	Notes st110-0591				
	30ppm crv	1	below	6	1.0
	Notes st110-0592				
	40ppm crv	1	below	7	1.0
	Notes st110-0593				
	50ppm crv	1	below	8	1.0
	Notes st110-0594				
	80ppm crv	1	below	9	1.0
	Notes st110-0595				
	100ppm crv	1	below	10	1.0
	Notes st110-0596				
	120ppm crv	1	below	11	1.0
	Notes st110-0597				
	50ppm icv	1	below	12	1.0
	Notes st110-0599				

dan 4/28/14

TC 4-28-14

tory for Data Files: C:\VarianWS\data

Data File Names: %s

e and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

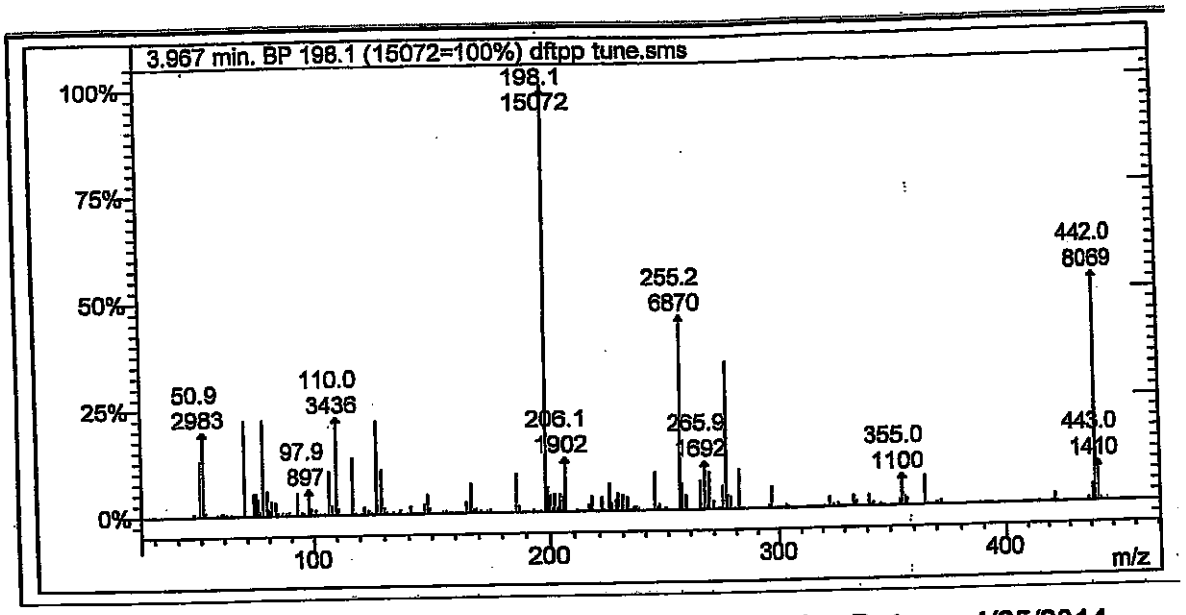
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√ dam 4/28/14

JV 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

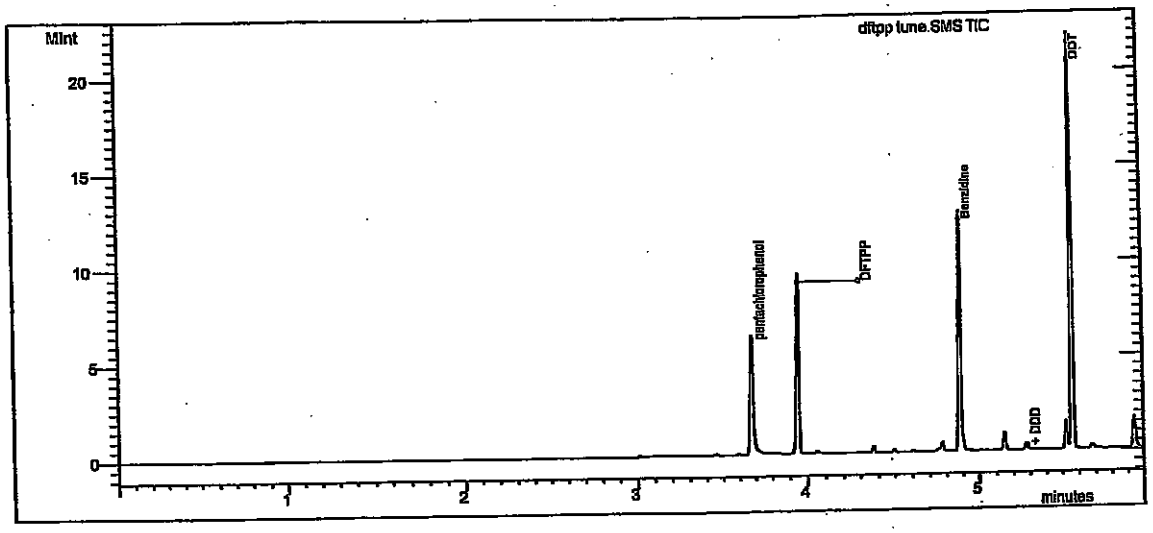
Jdan 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

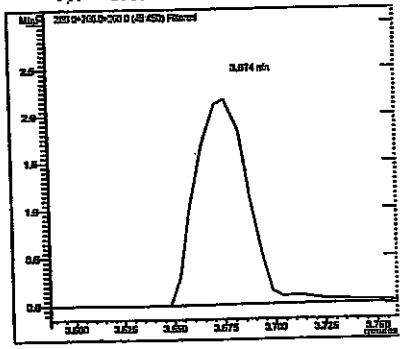
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

TX 4-28-14

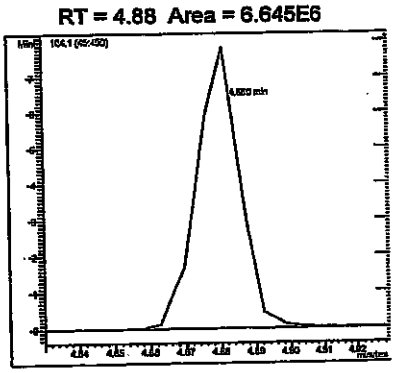
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dam 4/28/14

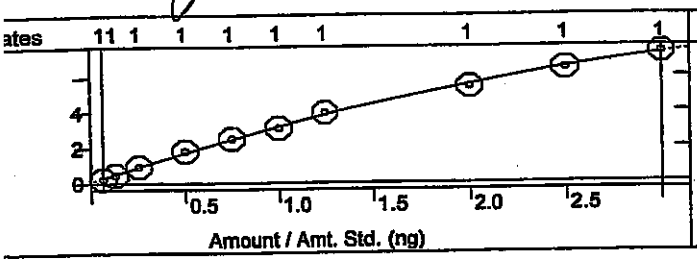
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

4-28-14

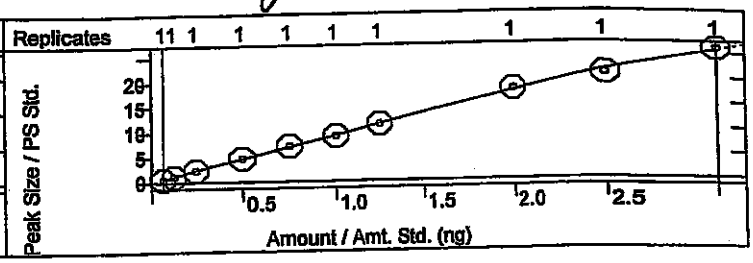
bration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

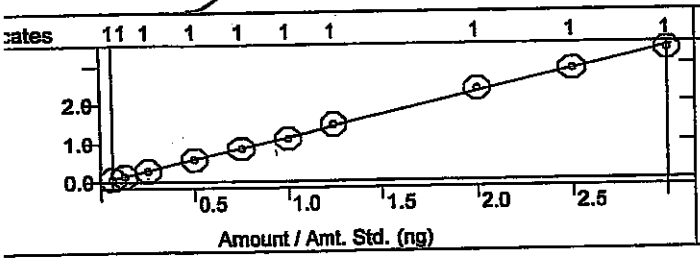
trosodimethylamine
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
-0.3412x2 +3.4265x +0.0884



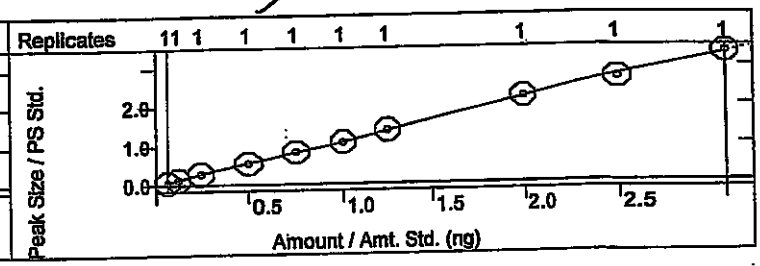
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



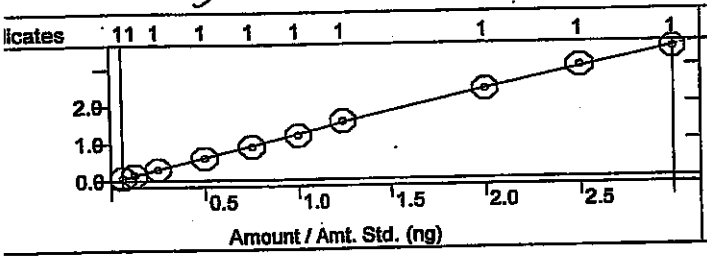
uorophenol
ve Fit: Linear, Origin: Ignore, Weight: None
ip. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
+1.1454x +0.0021



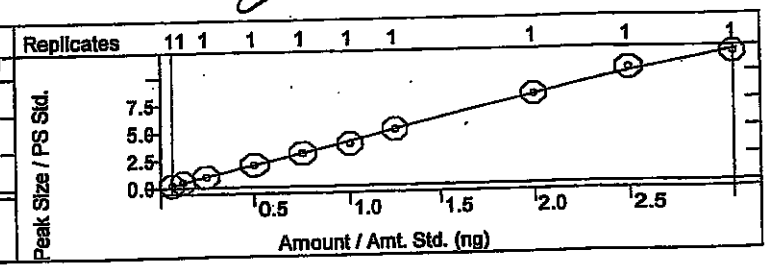
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



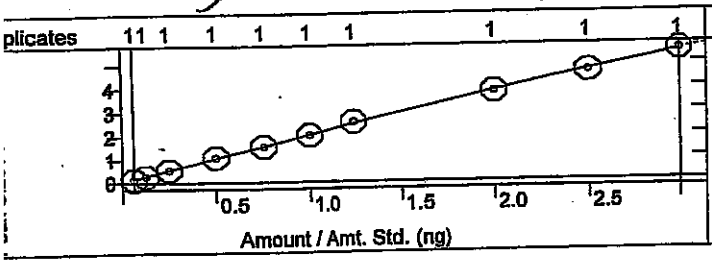
enol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
: -0.0409x2 +1.2967x -0.0251



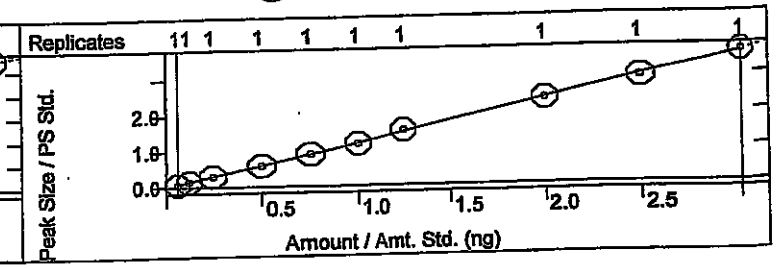
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



is(2-chloroethyl)ether
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242



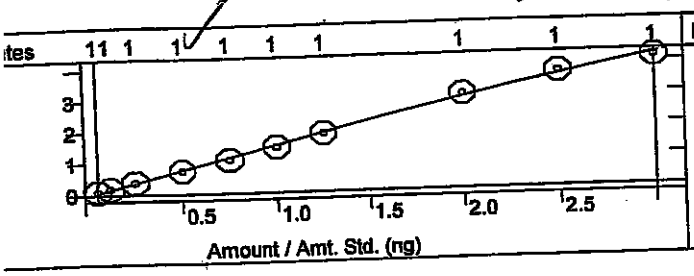
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



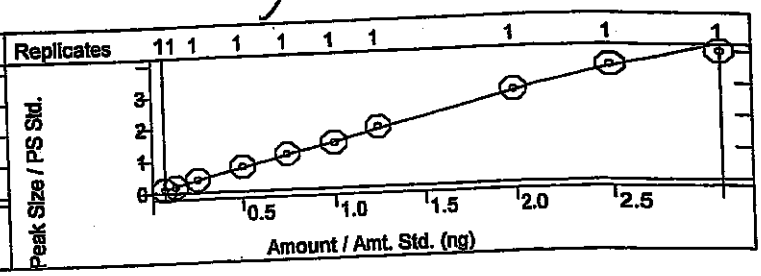
ɔration Curves Report

d:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
: Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

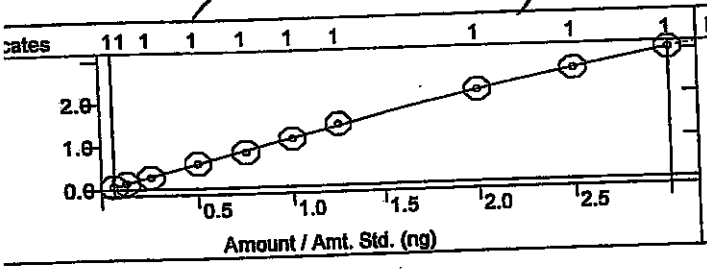
ichlorobenzene
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
0.0693x2 +1.6278x -0.0442



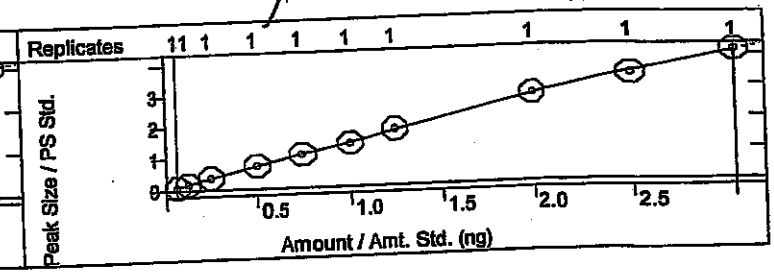
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



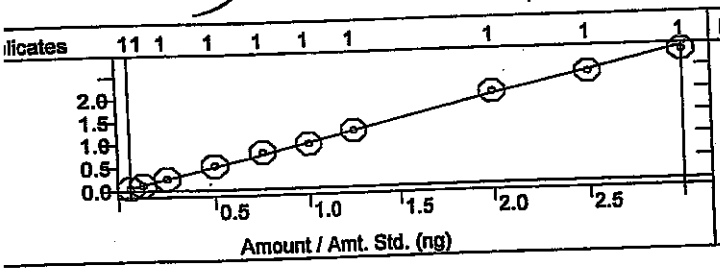
zyl alcohol
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
-0.0661x2 +1.2165x -0.0165



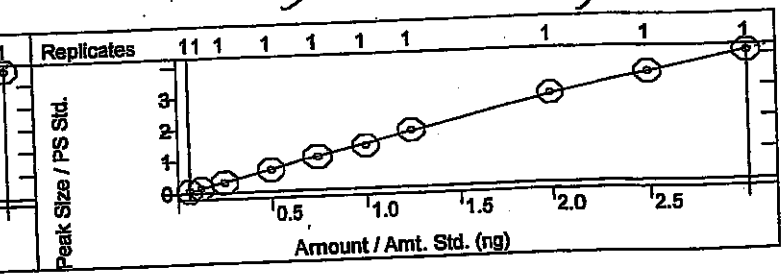
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



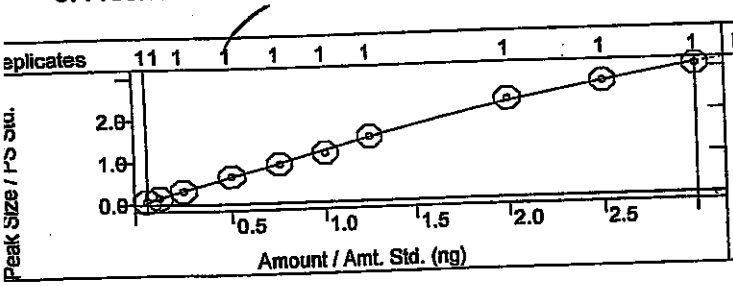
Methylphenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



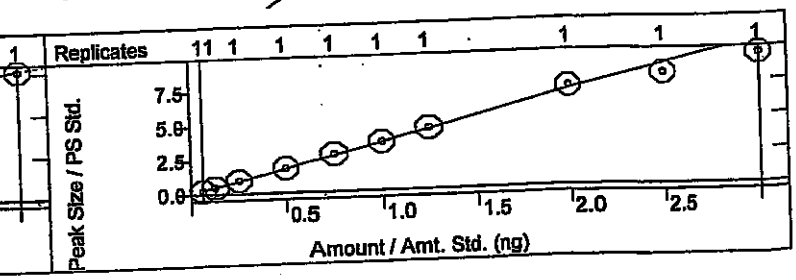
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



+4-Methylphenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
= -0.1133x2 +1.3766x -0.0272



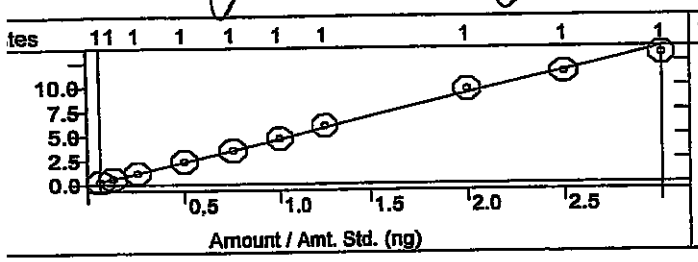
N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



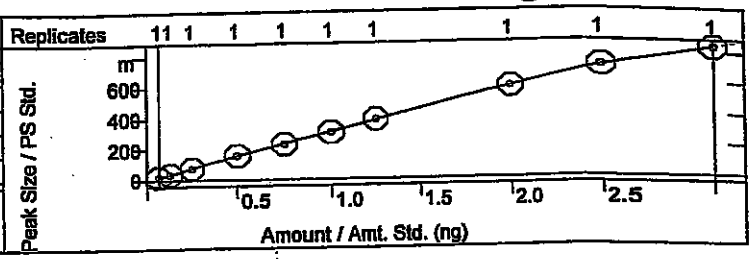
bration Curves Report

)d:	c:\varianws\methods\8270 042514.mth		
c Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
le List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

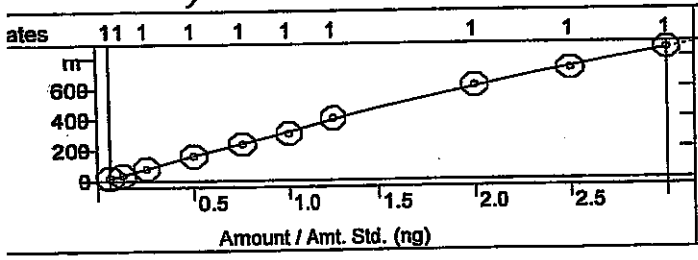
chloroethane
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
+4.6167x +0.0205



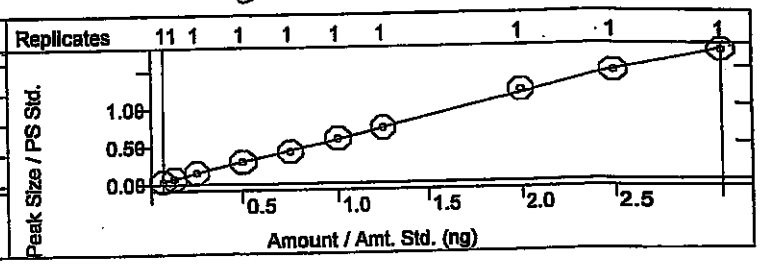
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



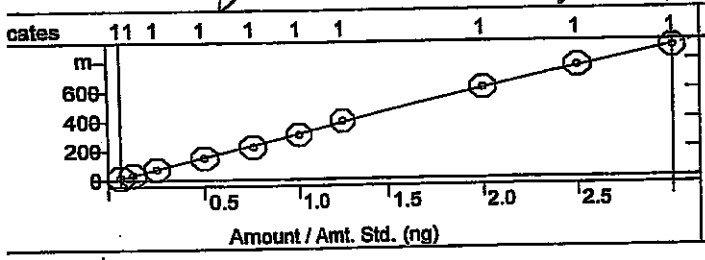
obenzene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
-0.0200x2 +0.3461x -0.0058



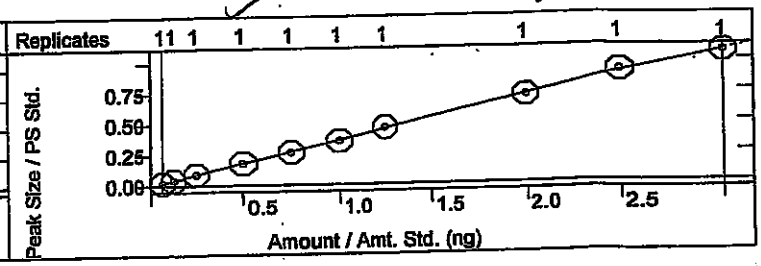
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



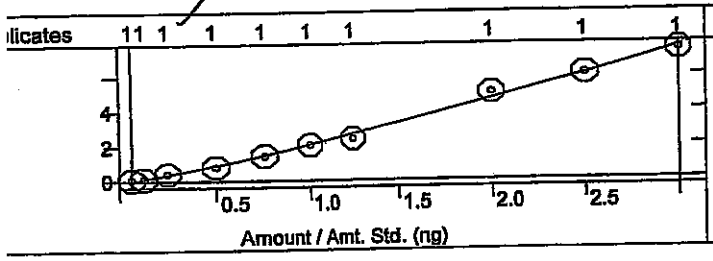
itrophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
-0.0089x2 +0.3282x -0.0083



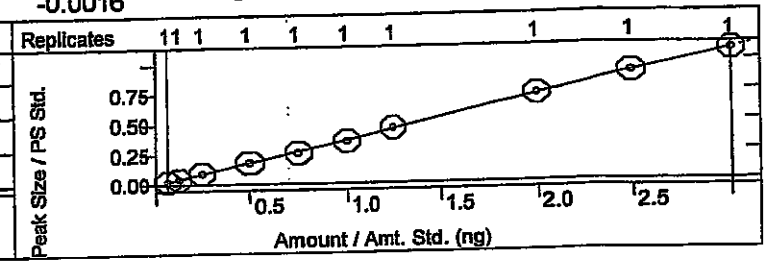
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



nzoic acid
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
= +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016

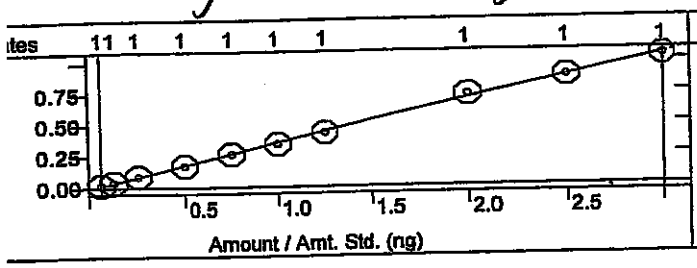


bration Curves Report

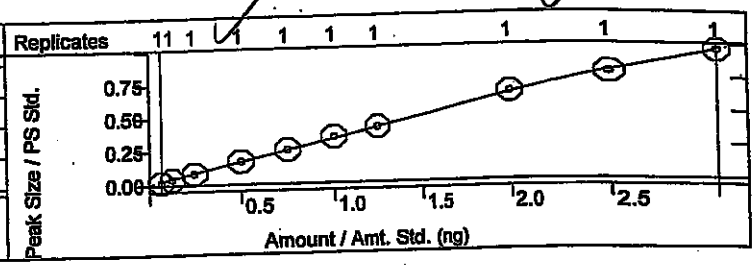
id:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
c Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JV 4-28-14

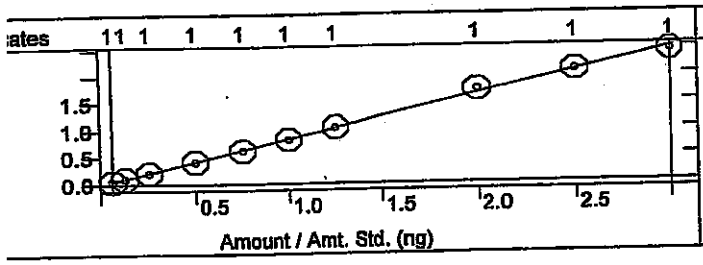
lchlorophenol
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
0.0055x2 +0.3668x -0.0082



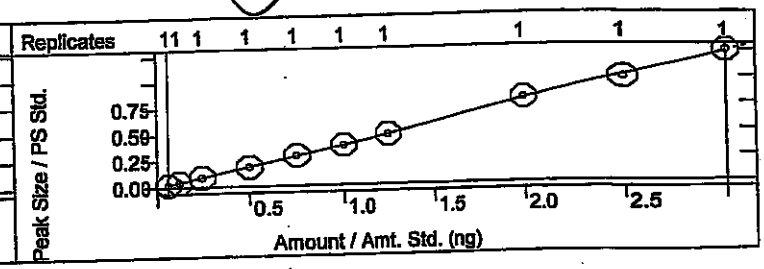
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



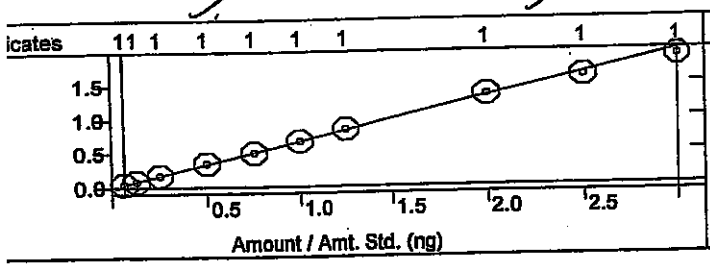
hthalene
/e Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
+0.8263x +0.0048



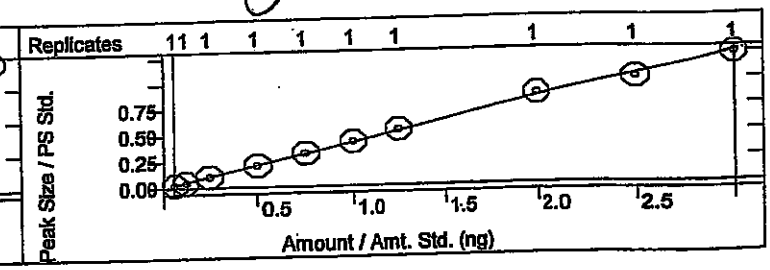
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



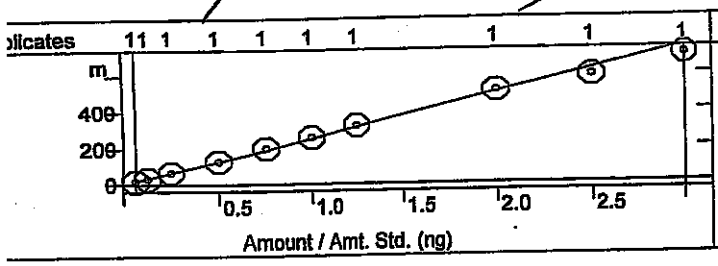
xachlorobutadiene
rve Fit: Linear, Origin: Ignore, Weight: 1/X2
sp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
+0.6599x +0.0061



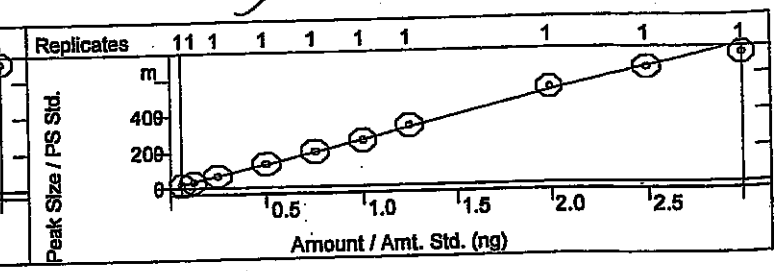
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
= +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



ibration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
ılc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

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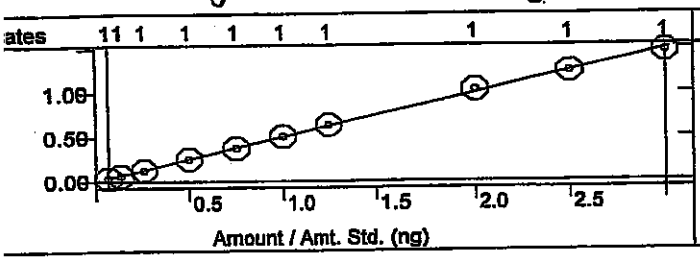
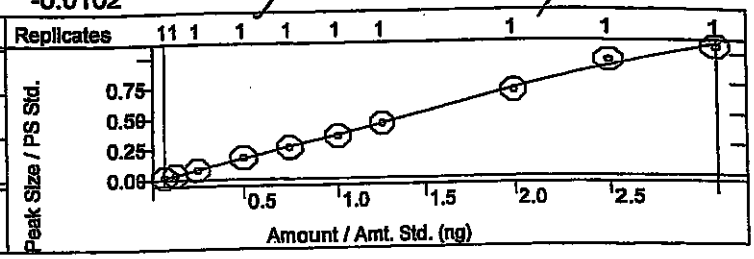
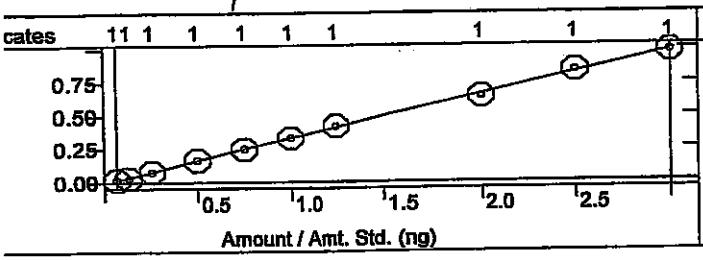
achlorocyclopentadiene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
+0.4936x +0.0086



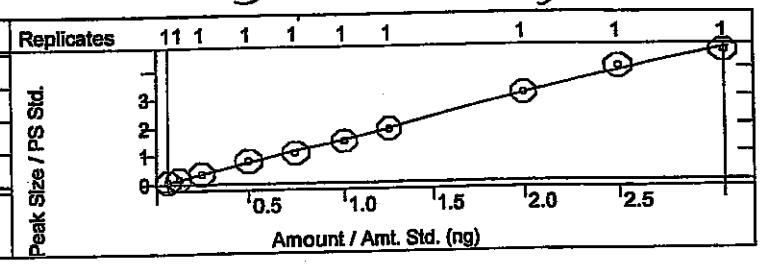
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



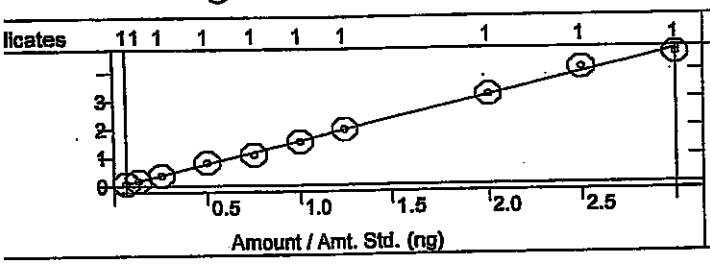
5-Trichlorophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
-0.0042x2 +0.3430x -0.0068



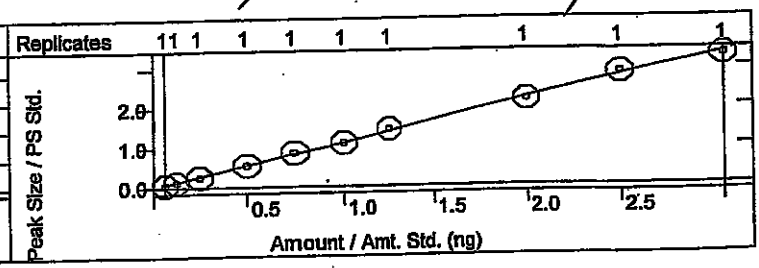
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



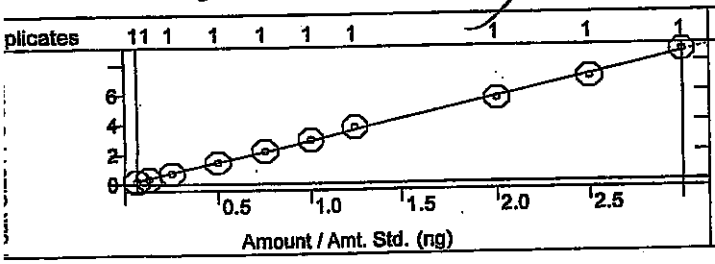
Chloronaphthalene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



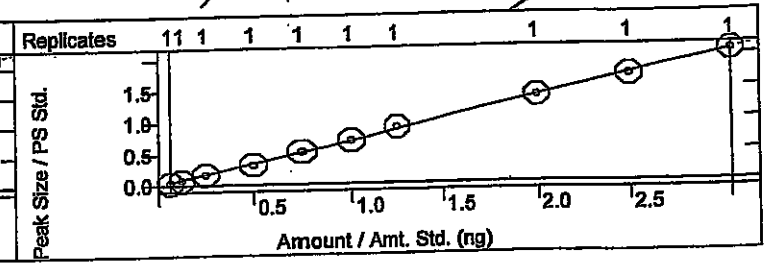
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



imethyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
= +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



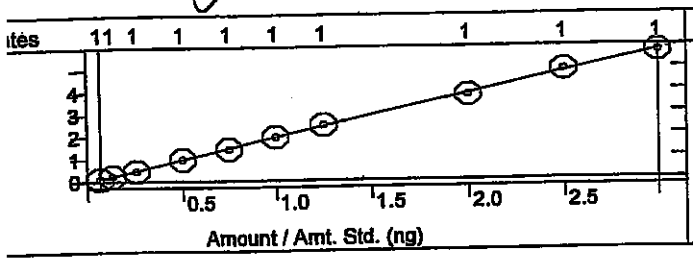
bration Curves Report

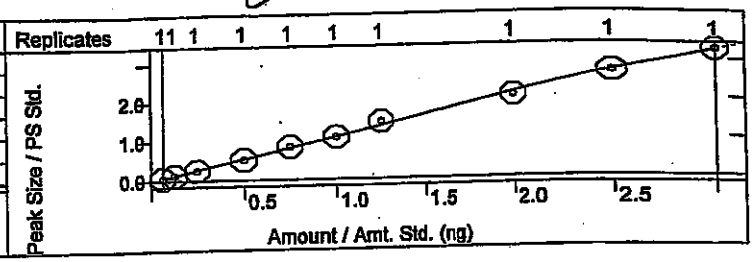
✓ dlm 4/28/14

)d:	c:\varianws\methods\8270 042514.mth		
c Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
le List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
/orkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

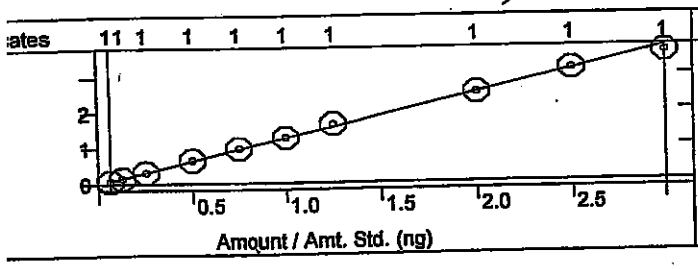
aphthylene
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
0.0224x2 +2.0006x -0.0303

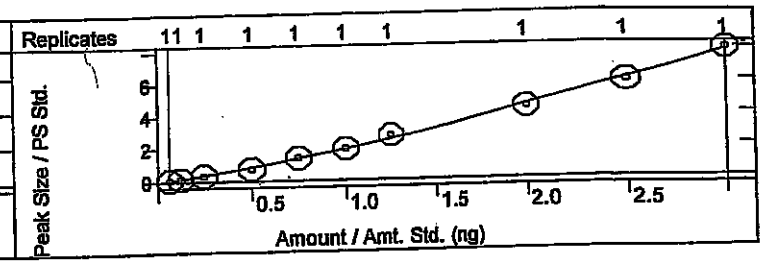




3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082

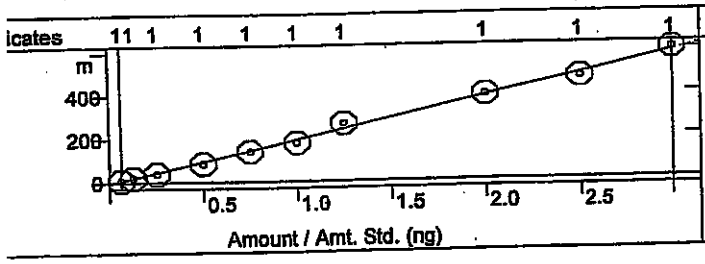
naphthene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
+1.2637x -5.2278e-4

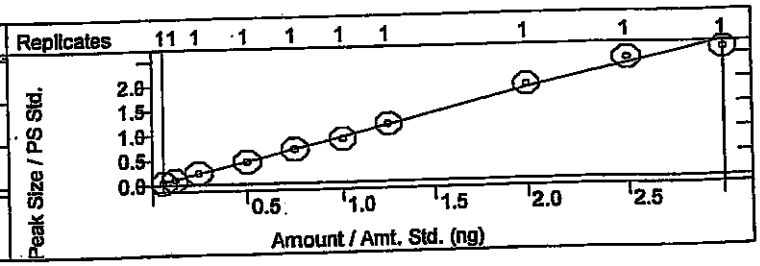




2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504

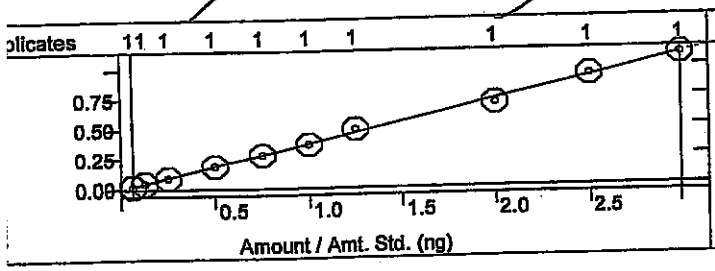
itrophenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
+0.1978x -0.0058

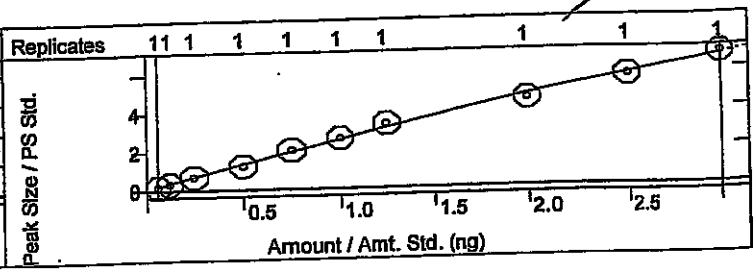




Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079

4-Dinitrotoluene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
= -0.0024x2 +0.3726x -8.6289e-4



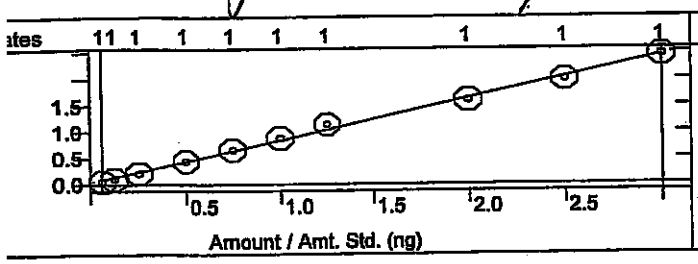


Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097

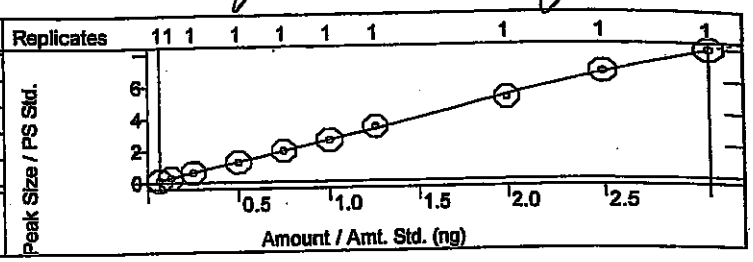
bration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

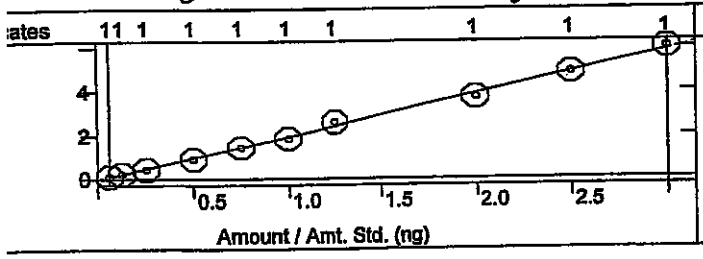
lorophenyl phenyl ether
e Fit: Linear, Origin: Ignore, Weight: None
). Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
+0.8008x +0.0369



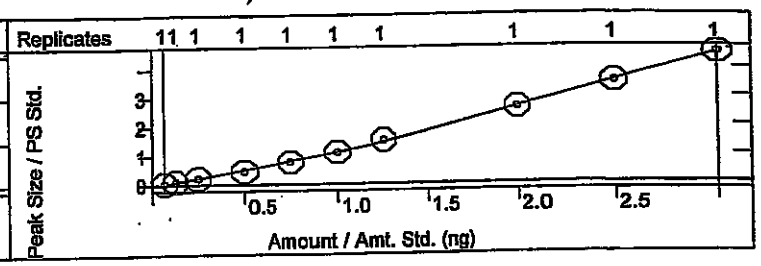
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



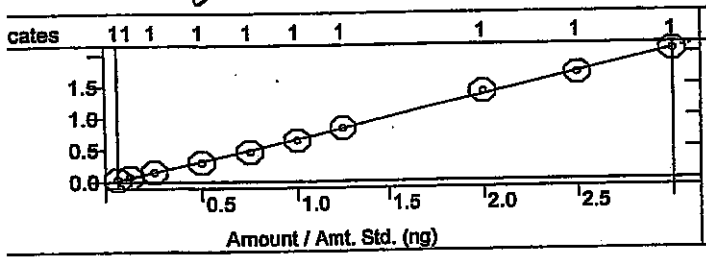
troaniline
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
+1.9592x -0.0342



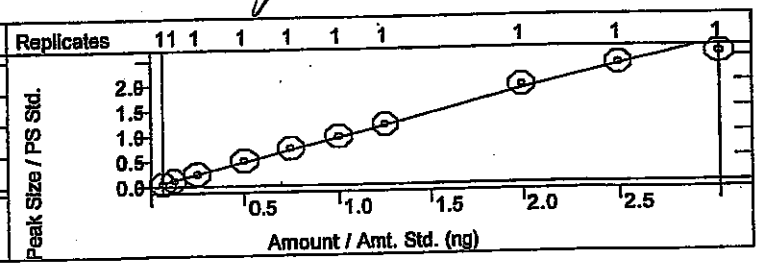
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



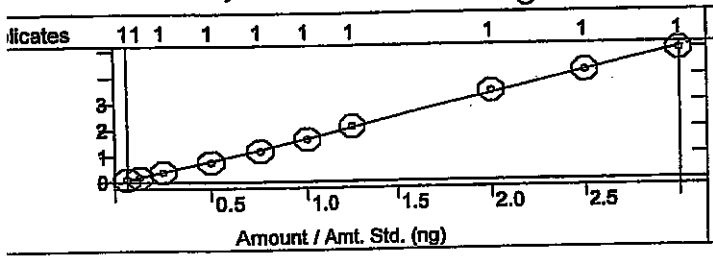
litrosodiphenylamine
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
+0.0060x2 +0.6726x -0.0178



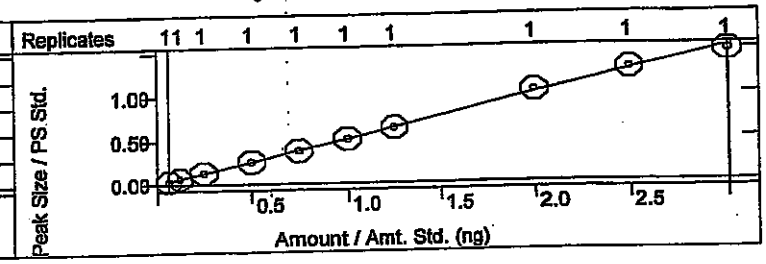
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



l,6-Tribromophenol
irve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044

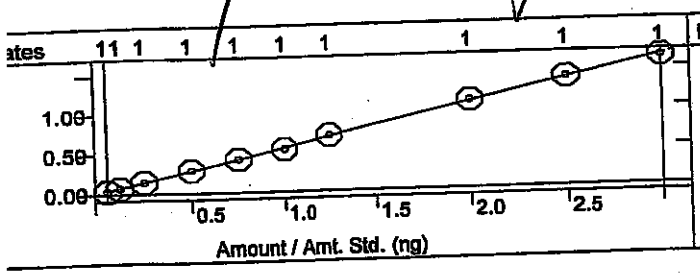


bration Curves Report

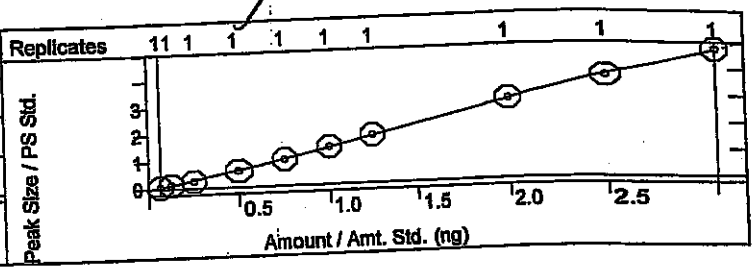
ıd:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
c Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ıle List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Vorkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JC 4-28-14

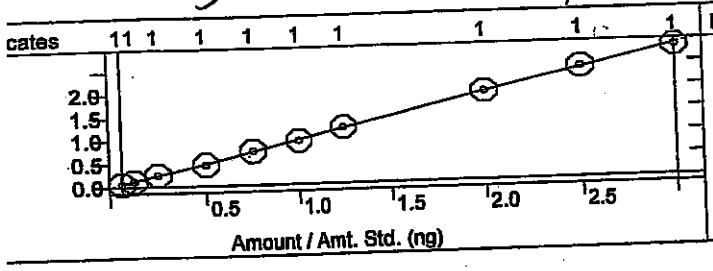
ıchlorobenzene
e Fit: Linear, Origin: Ignore, Weight: None
). Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
+0.5470x +0.0070



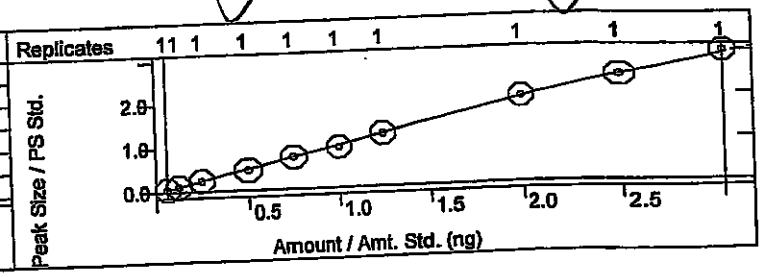
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



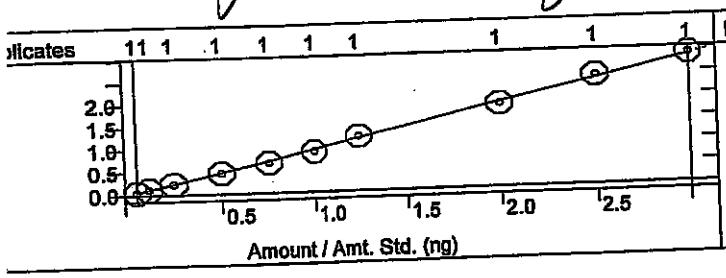
ınanthrene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ıp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
+0.9606x +0.0012



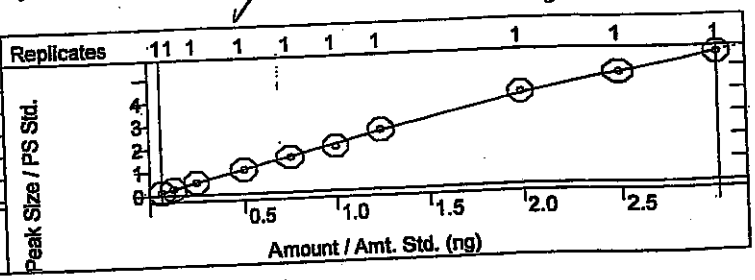
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



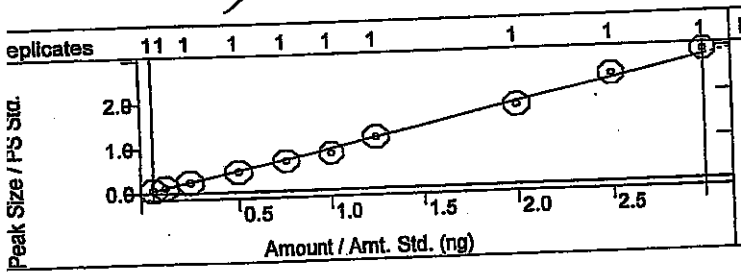
ırbazole
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
= +0.9547x -0.0072



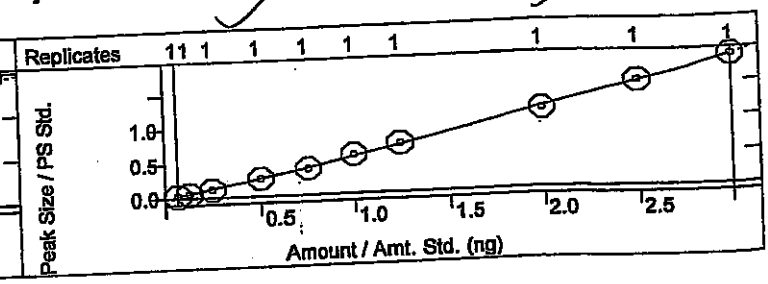
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



luoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
= +0.9392x -0.0094



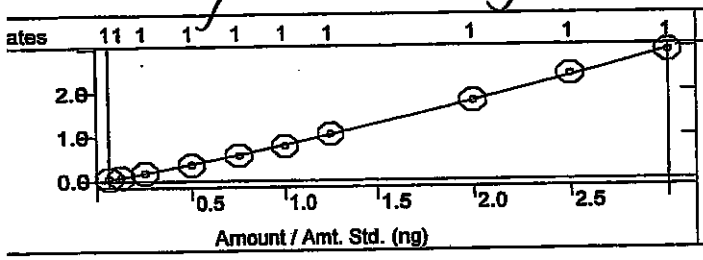
Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



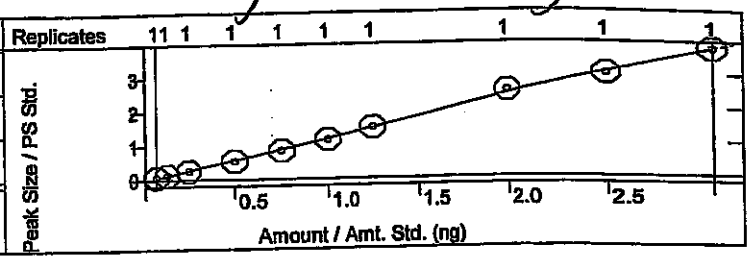
ibration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
ıic Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

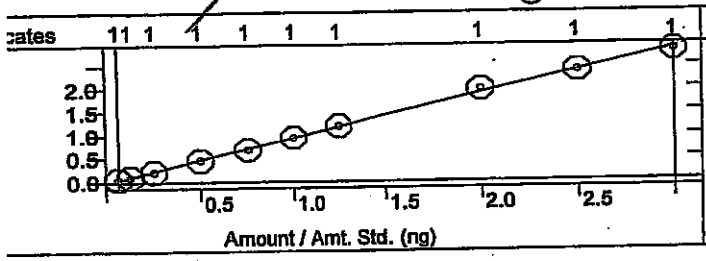
ne
re Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
+0.0803x2 +0.7448x -0.0135



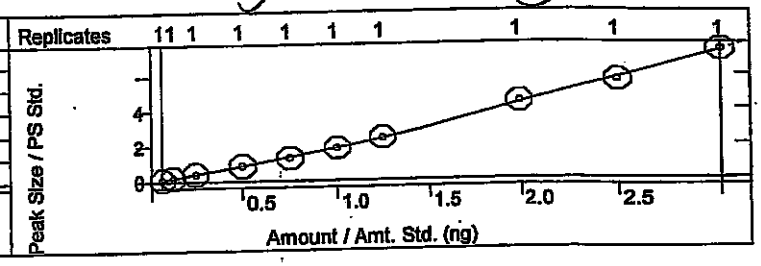
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



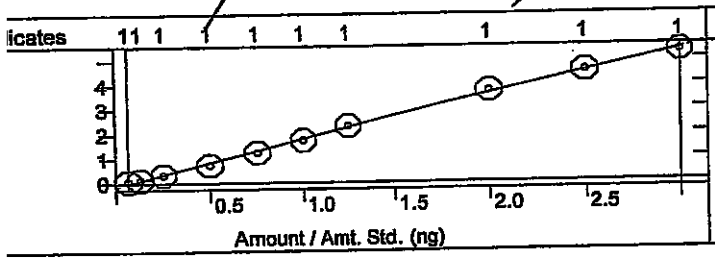
yl benzyl phthalate
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ıp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
+0.9570x -0.0113



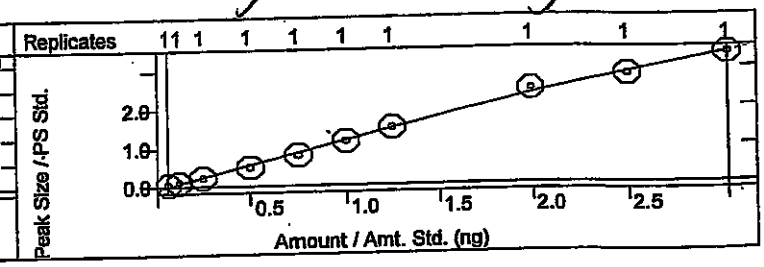
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



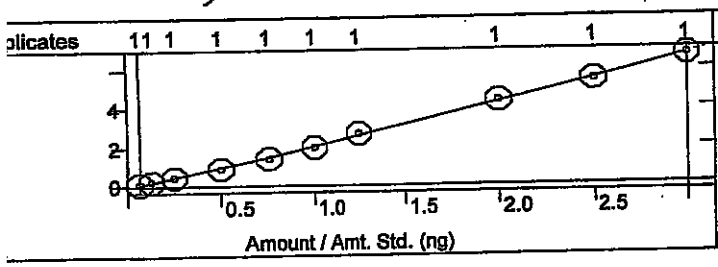
nz[a]anthracene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
: -0.0513x2 +1.9866x -0.1374



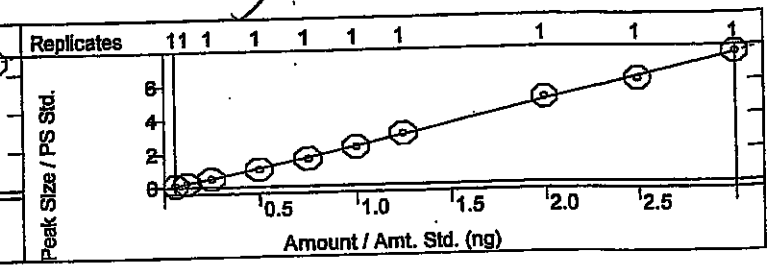
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



ırysene
ırve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
= +0.0641x2 +2.0511x -0.0655



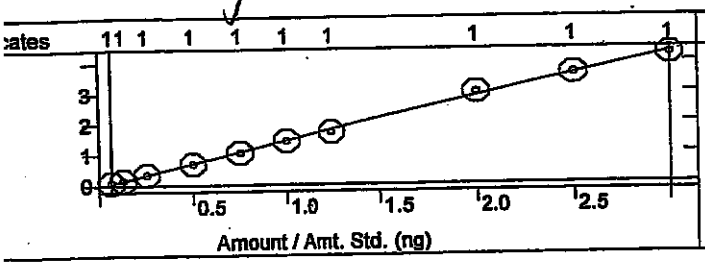
Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



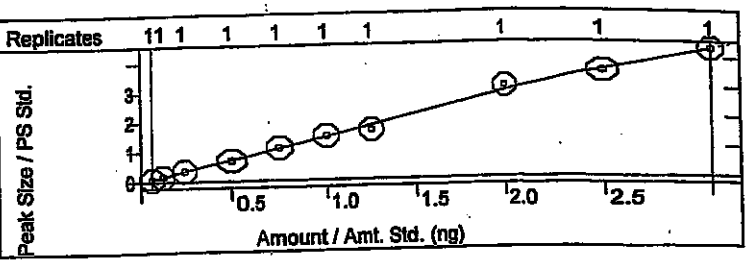
ibration Curves Report

iod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
< Measurement:	Area	Calibration Type:	Internal Standard Analysis

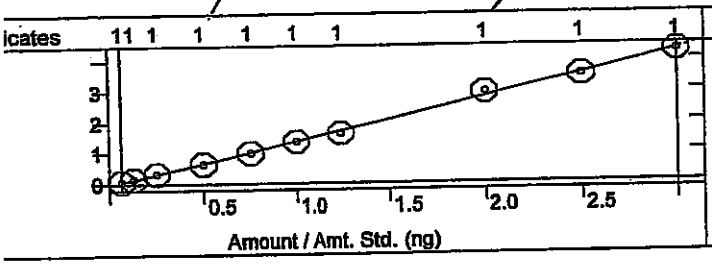
zo(b)fluoranthene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
-0.0187x2 +1.5058x -0.0450



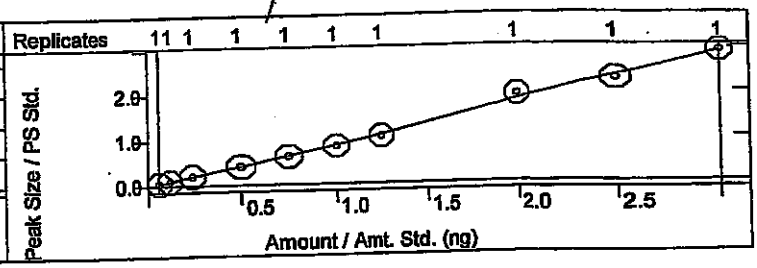
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



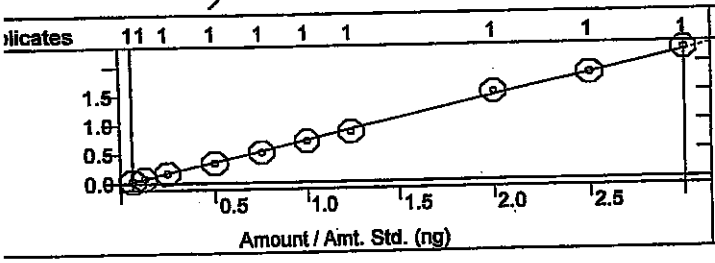
nzo[a]pyrene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
+0.0286x2 +1.3562x -0.0307



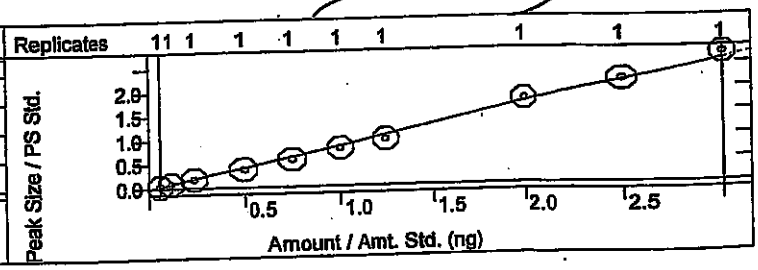
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



benz[a,h]anthracene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
= +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dan 4/29/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS

Compound	RRF9	RRF10
Phenol	1.202	1.156
Aniline	4.162	3.913
Bis(2-chloroethyl)ether	1.858	1.840
2-Chlorophenol	1.181	1.206
1,3-Dichlorobenzene	1.475	1.376
1,4-Dichlorobenzene	1.441	1.337
Benzyl alcohol	1.042	1.013
1,2-Dichlorobenzene	1.357	1.380
2-Methylphenol	0.959	0.946
Bis(2-chloroisopropyl)ether	1.386	1.364
3+4-Methylphenol	1.083	1.021
N-Nitrosodi-n-propylamine	3.244	3.160
Hexachloroethane	4.568	4.415

dem 4/29/

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dan 4/25

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

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50ppm crv.SMS JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

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JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

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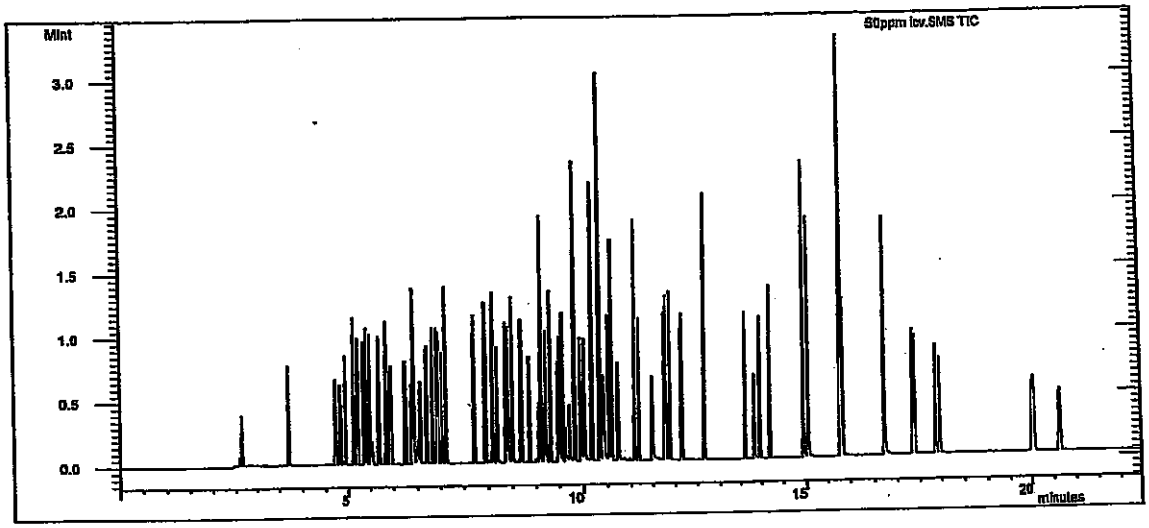
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dam 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	316243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

Hall Environmental Analysis Laboratory

Extraction Method 3540

Reviewed By: 8.26.14

PREP BATCH REPORT

Prep Start Date: **8/25/2014 8:45:07 A**
Prep End Date:

Time Started: 11:00
Time Ended: 5:00

Prep Batch ID: **14932** Prep Code: **8270SOX_PR** Method No: **3540**

Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14932		Soil			30	0	0	1	0.033	8/25/2014	8.26.14
LCS-14932		Soil			30	0	0	1	0.033	8/25/2014	8.26.14
1408B56-001A	FFOR-CF-0051	MeOH (Soil)			30.12	0	0	1	0.033	8/25/2014	DCM
1408B56-001AMS		MeOH (Soil)			30.24	0	0	1	0.033	8/25/2014	4/7/36
1408B56-001AMSD		MeOH (Soil)			30.21	0	0	1	0.033	8/25/2014	

8-25 8-25

* MS/MSD not analyzed due to necessary 10x dilution on sample. JV 8.26.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 8-25	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 JV 8-26-14	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 8-25	µL

Varian Star Workstation - 8400 SampleList Tue Aug 26 13:11:49 2014

SampleList: C:\VarianWS\082614.smp

Created: Tue Aug 26 08:41:45 2014
Modified: Tue Aug 26 13:11:45 2014

****

JV 8.26.14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm LL	1	below	1	1.0
	Notes sv110-0562				
3	50ppm	1	below	2	1.0
	Notes sv110-0594				
4	mb-14932	1	below	3	1.0
	Notes soil				
5	1408B60-001C	1	below	4	1.0
	Notes x5 AQ				
6	lcs-14932	1	below	5	1.0
	Notes soil				
7	1408B56-001A	1	below	6	1.0
	Notes x1 soil				
8	1408B56-001A	1	below	7	1.0
	Notes x10 soil				
9	1408759-002A	1	below	8	1.0
	Notes x2 oil				
10	RB-8270	2	below	9	1.0
	Notes sv110-0598				
11					
12	mb-14955	1	below	10	1.0
	Notes LL-AQ				
13	lcs-14955	1	below	11	1.0
	Notes LL-AQ				
14	1408C64-002C	1	below	12	1.0
	Notes x1 LL-AQ				
15	1408C64-002Cms	1	below	13	1.0
	Notes x1 LL-AQ				
16	1408C64-002Cmsd	1	below	14	1.0
	Notes x1 LL-AQ				
17	1408C64-004C	1	below	15	1.0
	Notes x1 LL-AQ				

dam 8/26/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\082614.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

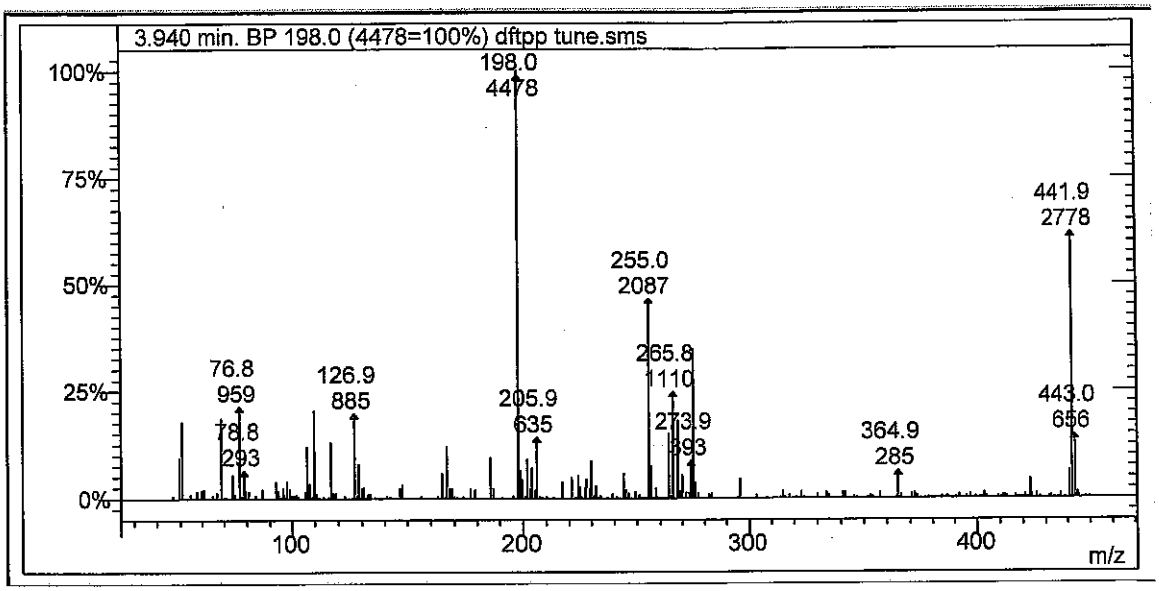
Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/26/2014

Injection Time: 8:45

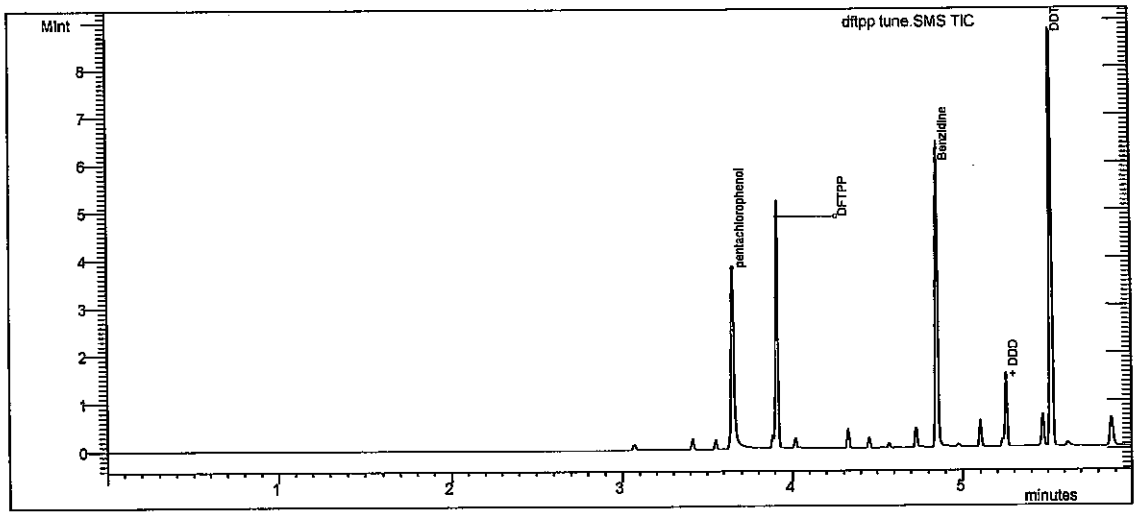
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	17.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	18.62	PASS
70	<2% of m/z 69	1.92	PASS
127	10-80% of base peak	19.76	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	6.52	PASS
275	10-60% of base peak	34.75	PASS
365	>1% of base peak	6.36	PASS
441	Present and <m/z 443	44.51	PASS
442	>50% of m/z 198	62.04	PASS
443	15-24% of m/z 442	23.61	PASS

TX 8-26-14

dam 8/26/14

Degradation Report

Acquisition Date:	8/26/2014 8:45:12 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.524	2.299E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.256	359446	5
DDE	5.000	57	6

% Degradation of **DDT : =** 13.524 ✓ < 20

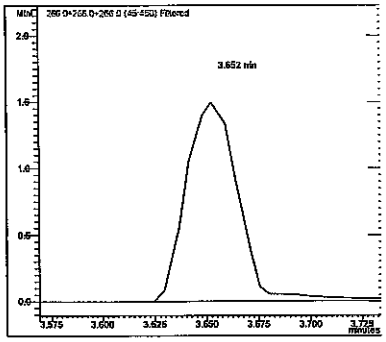
JC 8.26.14

Jdam 8/26/14

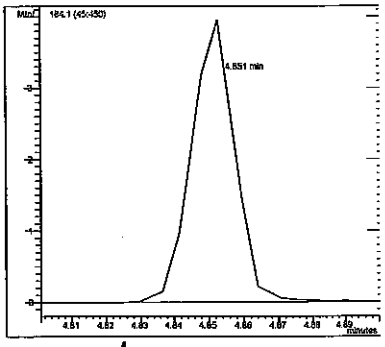
Tailing and Gaussian Factor Report

Acquisition Date:	8/26/2014 8:45:12 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.652 Area = 2.660E6



Benzidine
RT = 4.851 Area = 3.391E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.652	1.307	0.877
Benzidine	4.851	0.749	0.974

#	Compound Name	RT	Area
1	pentachlorophenol	3.652	2.660E6
3	Benzidine	4.851	3.391E6

8/26/14

dam 8/26/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm LL	138362	2.97	459342	4.30	199650	6.75	408236	9.04	358156	13.18	475829	15.42

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC 8-26-14

dam 8/26/14

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll.sms **Acquisition Date:** 8/26/2014 8:57

Comment: sv110-0562

SampleID: 10ppm LL **Analyst:** John D Caldwell

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.67	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.40	ng	10.00	94 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.55		10.00	95 %	80 - 120	PASS
6)	Acenaphthylene	9.86	ng	10.00	99 %	80 - 120	PASS
8)	Acenaphthene	10.03	ng	10.00	100 %	80 - 120	PASS
9)	n-hexadecane	70.13		67.50	104 %	80 - 120	PASS
10)	Fluorene	10.35	ng	10.00	104 %	80 - 120	PASS
12)	Phenanthrene	9.09	ng	10.00	91 %	80 - 120	PASS
13)	Anthracene	9.11	ng	10.00	91 %	80 - 120	PASS
14)	Fluoranthene	9.19	ng	10.00	92 %	80 - 120	PASS
15)	Pyrene	9.75	ng	10.00	97 %	80 - 120	PASS
16)	Benz[a]anthracene	9.28	ng	10.00	93 %	80 - 120	PASS
18)	Chrysene	9.55	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.70	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	10.07	ng	10.00	101 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.55		15.00	104 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.80	ng	10.00	98 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.09	ng	10.00	91 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.86	ng	10.00	99 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	8.95	ng	10.00	89 %	80 - 120	PASS

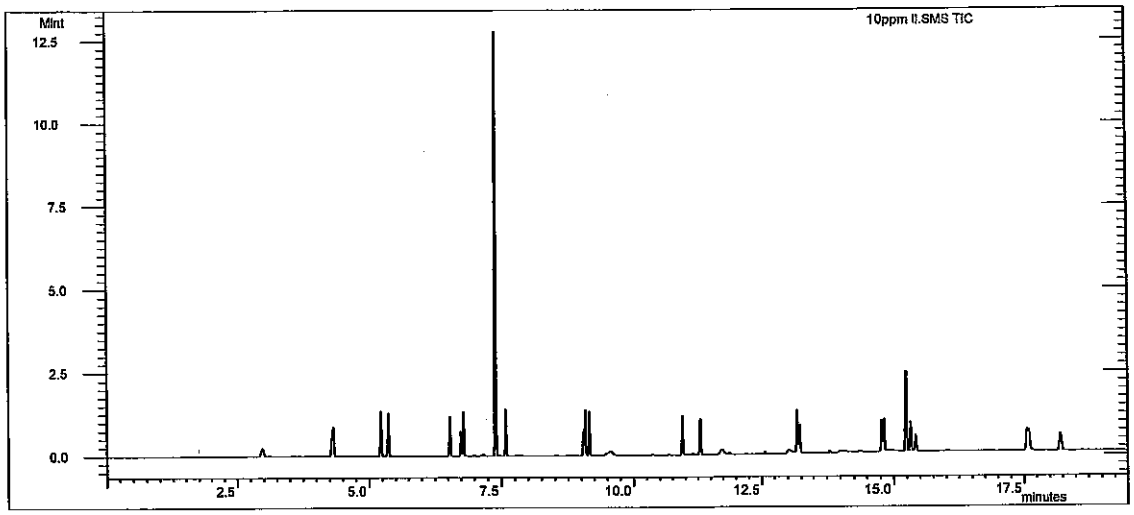
* indicates Internal Standard.

JV 4.26.14

dam 8/26/14

8270C Report

Sample Name:	10ppm LL	**Operator Name:**	John D Caldwell	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	8/26/2014 8:57:28 AM
Calculation Date:	8/26/2014 9:20:02 AM				



Updated RTs

JV 8.26.14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.969	201	Identified	138362	5.000
Naphthalene-d8 (I.S)	4.297	339	Identified	459342	5.000
Acenaphthene-d10 (I.S)	6.750	595	Identified	199650	5.000
Phenanthrene-d10	9.036	835	Identified	408236	5.000
Chrysene-d12 I.S	13.181	1265	Identified	358156	5.000
Perylene-d12 I.S	15.417	1492	Identified	475829	5.000
Naphthalene	4.322	342	Identified	791308	9.674
2-Methylnaphthalene	5.223	436	Identified	515404	9.400
1-Methylnaphthalene	5.366	451	Identified	673699	9.549
Acenaphthylene	6.541	573	Identified	816702	9.861
Acenaphthene	6.801	600	Identified	982154	10.028
n-hexadecane	7.391	662	Identified	2.890E6	70.132
Fluorene	7.586	682	Identified	1.101E6	10.354
Phenanthrene	9.075	839	Identified	785886	9.090
Anthracene	9.153	847	Identified	783164	9.113
Fluoranthene	10.936	1033	Identified	757216	9.186
Pyrene	11.295	1071	Identified	779406	9.746
Benz[a]anthracene	13.166	1264	Identified	1.128E6	9.281
Chrysene	13.222	1270	Identified	551937	9.551
Benzo(b)fluoranthene	14.776	1427	Identified	862961	9.700
Benzo[k]fluoranthene	14.818	1432	Identified	991247	10.070
Benzo(e)pyrene	15.236	1474	Identified	2.237E6	15.555
Benzo[a]pyrene	15.320	1482	Identified	962802	9.801
Indeno[1,2,3-cd]pyrene	17.558	1707	Identified	1.174E6	9.089

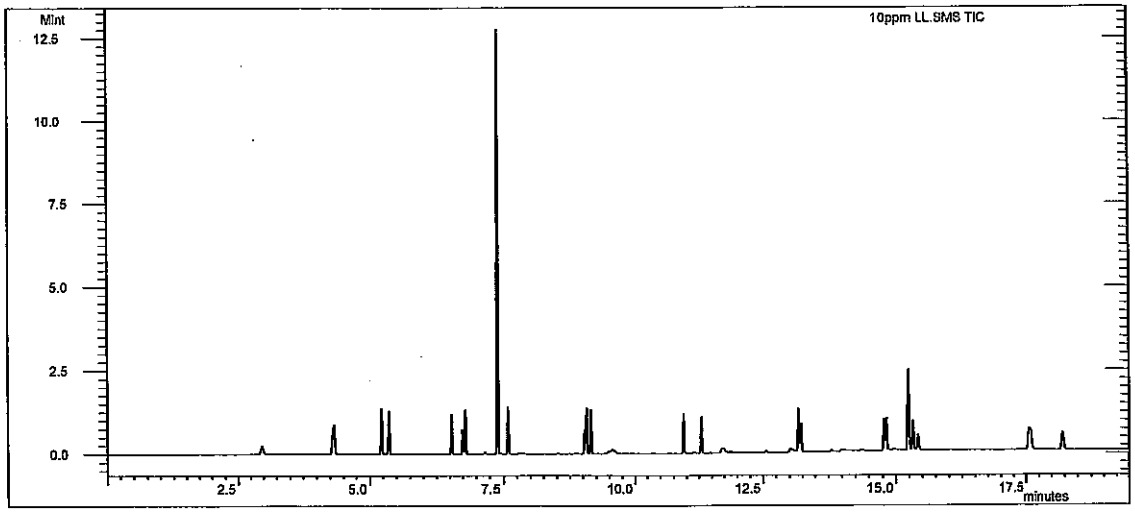
Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.592	1711	Identified	896111	9.860
Benzo[g,h,i]perylene	18.211	1773	Identified	950979	8.947

****
Revision Log
****

8/26/2014 9:16 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'
8/26/2014 9:20 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

8270C Report

Sample Name:	10ppm LL	**Operator Name:**	John D Caldwell	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	8/26/2014 8:57:28 AM
Calculation Date:	8/26/2014 9:16:59 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.969	201	Identified	138362	5.000
Naphthalene-d8 (I.S)	4.297	339	Identified	459342	5.000
Acenaphthene-d10 (I.S)	6.750	595	Identified	199650	5.000
Phenanthrene-d10	9.036	835	Identified	408236	5.000
Chrysene-d12 I.S	13.181	1265	Identified	358156	5.000
Perylene-d12 I.S	15.417	1492	Identified	475829	5.000
Naphthalene	4.322	342	Identified	791308	9.674
2-Methylnaphthalene	5.223	436	Identified	515404	9.400
1-Methylnaphthalene	5.366	451	Identified	673565	9.547
Acenaphthylene	6.541	573	Identified	816702	9.861
Acenaphthene	6.802	600	Identified	984896	10.056
n-hexadecane	7.391	662	Identified	2.890E6	70.132
Fluorene	7.584	682	Identified	1.108E6	10.425
Phenanthrene	9.075	839	Identified	785886	9.090
Anthracene	9.153	847	Identified	783164	9.113
Fluoranthene	10.936	1033	Identified	757216	9.186
Pyrene	11.295	1071	Identified	779406	9.746
Benz[a]anthracene	13.164	1264	Identified	1.130E6	9.298
Chrysene	13.221	1270	Identified	549933	9.516
Benzo(b)fluoranthene	14.776	1427	Identified	867012	9.745
Benzo[k]fluoranthene	14.891	1439	Identified	188	0.046
Benzo(e)pyrene	15.236	1474	Identified	2.237E6	15.555
Benzo[a]pyrene	15.320	1482	Identified	962802	9.801
Indeno[1,2,3-cd]pyrene	17.558	1707	Identified	1.174E6	9.089

update RTs JC 8-26-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.592	1711	Identified	901912	9.923
Benzo[g,h,i]perylene	18.211	1773	Identified	950961	8.947

****
Revision Log
****

8/26/2014 9:16 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm	162809	5.18	497468	6.90	222276	9.50	395369	11.74	443428	15.76	549456	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JV 8-26-14

dam 8/26/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\082614\50ppm.SMS Lab Sample ID: 50ppm

Instrument ID: ELMO Date Analyzed: 8/26/2014 Time Analyzed: 09:36

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	162809	5.18	497468	6.90	222276	9.50	395369	11.74	443428	15.76	549456	17.91
UPPER LIMIT	325618	5.68	994936	7.40	444552	10.00	790738	12.24	886856	16.26	1.099E6	18.41
LOWER LIMIT	81405	4.68	248734	6.40	111138	9.00	197685	11.24	221714	15.26	274728	17.41
EPA SAMPLE NO												
mb-14932	88386	5.18	276494	6.90	131025	9.49	233747	11.74	276770	15.75	342700	17.91
1408B60-00	89024	5.17	281013	6.89	135144	9.49	261182	11.74	322409	15.75	391928	17.90
lcs-14932	95300	5.17	298445	6.90	139226	9.49	263725	11.74	308946	15.75	355359	17.90
1408B56-00 R2x10	72264 D	5.17 D	262547 D	6.90 D	148556	9.50	275023	11.73	332870	15.75	388500	17.90
1408B56-00	78892 *	5.17	295757 D ✓	6.90 D ✓	142106	9.49	254949	11.74	290318	15.75	339658	17.90
1408759-00	86988	5.18	290589 JC	6.90	129465	9.49	263975	11.74	314332	15.75	400185	17.90

* = NMR

Vsputter

8-26-14

Jdam 9/26/14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/26/2014 Time: 9:36

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.504	0.050	50.00	58.67	-17.3	40.0	PASS	PASS
Pyridine	11.481	0.050	50.00	63.52	-27.0	40.0	PASS	PASS
2-Fluorophenol	1.161	0.050	50.00	50.60	-1.2	40.0	PASS	PASS
Phenol-d5	1.103	0.050	50.00	50.53	-1.1	40.0	PASS	PASS
Phenol	1.126	0.050	50.00	45.85	8.3	20.0	PASS	PASS
Aniline	3.392	0.050	50.00	41.43	17.1	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.825	0.050	50.00	45.17	9.7	40.0	PASS	PASS
2-Chlorophenol	1.167	0.050	50.00	48.77	2.5	40.0	PASS	PASS
1,3-Dichlorobenzene	1.456	0.050	50.00	48.28	3.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.462	0.050	50.00	51.25	-2.5	20.0	PASS	PASS
Benzyl alcohol	1.100	0.050	50.00	49.00	2.0	40.0	PASS	PASS
1,2-Dichlorobenzene	1.411	0.050	50.00	50.14	-0.3	40.0	PASS	PASS
2-Methylphenol	0.924	0.050	50.00	47.34	5.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.245	0.050	50.00	44.27	11.5	40.0	PASS	PASS
3+4-Methylphenol	1.056	0.050	50.00	42.96	14.1	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.188	0.050	50.00	45.00	10.0	40.0	PASS	PASS
Hexachloroethane	4.532	0.050	50.00	48.90	2.2	40.0	PASS	PASS
Nitrobenzene-d5	0.315	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Nitrobenzene	0.319	0.050	50.00	50.44	-0.9	40.0	PASS	PASS
Isophorone	0.613	0.050	50.00	52.33	-4.7	40.0	PASS	PASS
2-Nitrophenol	0.327	0.050	50.00	52.79	-5.6	20.0	PASS	PASS
2,4-Dimethylphenol	0.369	0.050	50.00	50.58	-1.2	40.0	PASS	PASS
Benzoic acid	2.511	0.050	50.00	57.15	-14.3	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.388	0.050	50.00	53.63	-7.3	40.0	PASS	PASS
2,4-Dichlorophenol	0.352	0.050	50.00	49.74	0.5	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.330	0.050	50.00	50.41	-0.8	40.0	PASS	PASS
Naphthalene	0.891	0.050	50.00	53.69	-7.4	40.0	PASS	PASS
4-Chloroaniline	0.387	0.050	50.00	50.02	0.0	40.0	PASS	PASS
Hexachlorobutadiene	0.624	0.050	50.00	46.92	6.2	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.396	0.050	50.00	47.29	5.4	20.0	PASS	PASS
2-Methylnaphthalene	0.220	0.050	50.00	43.75	12.5	40.0	PASS	PASS
1-Methylnaphthalene	0.233	0.050	50.00	45.39	9.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.410	0.050	50.00	40.85	18.3	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.326	0.050	50.00	45.51	9.0	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.289	0.050	50.00	43.48	13.0	40.0	PASS	PASS
2-Fluorobiphenyl	1.544	0.050	50.00	50.29	-0.6	40.0	PASS	PASS

JV 8-26-14

dlm 8/26/14

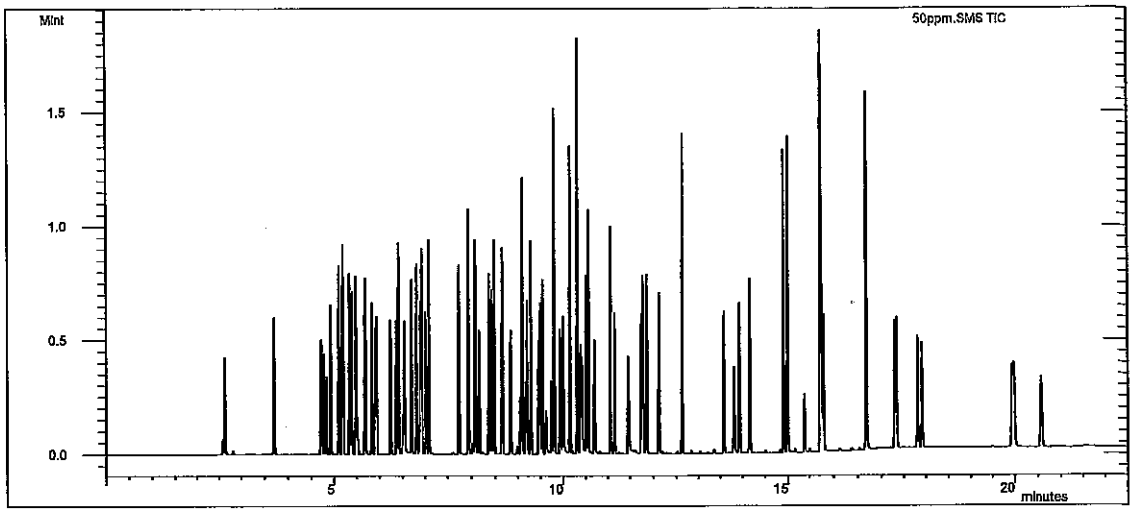
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.568	0.050	50.00	50.11	-0.2	40.0	PASS	PASS
2-Nitroaniline	1.019	0.050	50.00	45.68	8.6	40.0	PASS	PASS
Dimethyl phthalate	2.820	0.050	50.00	48.98	2.0	40.0	PASS	PASS
2,6-Dinitrotoluene	0.673	0.050	50.00	48.77	2.5	40.0	PASS	PASS
Acenaphthylene	1.913	0.050	50.00	49.08	1.8	40.0	PASS	PASS
3-Nitroaniline	1.006	0.050	50.00	46.25	7.5	40.0	PASS	PASS
Acenaphthene	1.193	0.050	50.00	47.22	5.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.490	0.050	50.00	59.44	-18.9	40.0	PASS	PASS
4-Nitrophenol	0.192	0.050	50.00	49.70	0.6	40.0	PASS	PASS
Dibenzofuran	0.733	0.050	50.00	39.90	20.2	40.0	PASS	PASS
2,4-Dinitrotoluene	0.310	0.050	50.00	41.91	16.2	40.0	PASS	PASS
Diethyl phthalate	2.236	0.050	50.00	44.03	11.9	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.598	0.050	50.00	35.51	29.0	40.0	PASS	PASS
Fluorene	2.267	0.050	50.00	43.66	12.7	40.0	PASS	PASS
4-Nitroaniline	1.774	0.050	50.00	45.98	8.0	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.651	0.050	50.00	65.95	-31.9	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.672	0.050	50.00	50.41	-0.8	20.0	PASS	PASS
Azobenzene	0.954	0.050	50.00	50.85	-1.7	40.0	PASS	PASS
2,4,6-Tribromophenol	1.723	0.050	50.00	51.99	-4.0	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.493	0.050	50.00	48.28	3.4	40.0	PASS	PASS
Hexachlorobenzene	0.518	0.050	50.00	46.83	6.3	40.0	PASS	PASS
Pentachlorophenol	1.635	0.050	50.00	57.18	-14.4	20.0	PASS	PASS
Phenanthrene	1.024	0.050	50.00	53.27	-6.5	40.0	PASS	PASS
Anthracene	1.046	0.050	50.00	53.72	-7.4	40.0	PASS	PASS
Carbazole	0.935	0.050	50.00	49.25	1.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.064	0.050	50.00	51.40	-2.8	40.0	PASS	PASS
Fluoranthene	0.911	0.050	50.00	48.91	2.2	20.0	PASS	PASS
Benzidine	0.412	0.050	50.00	37.65	24.7	40.0	PASS	PASS
Pyrene	0.779	0.050	50.00	47.03	5.9	40.0	PASS	PASS
4-Terphenyl-d14	1.128	0.050	50.00	47.12	5.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.958	0.050	50.00	50.54	-1.1	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.861	0.050	50.00	48.45	3.1	40.0	PASS	PASS
Benz[a]anthracene	1.432	0.050	50.00	39.82	20.4	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.824	0.050	50.00	34.92	30.2	40.0	PASS	PASS
Chrysene	1.848	0.050	50.00	44.77	10.5	40.0	PASS	PASS
Di-n-octyl phthalate	2.452	0.050	50.00	51.52	-3.0	20.0	PASS	PASS
Benzo(b)fluoranthene	1.431	0.050	50.00	49.48	1.0	40.0	PASS	PASS
Benzo[k]fluoranthene	1.446	0.050	50.00	49.79	0.4	40.0	PASS	PASS
Benzo[a]pyrene	1.385	0.050	50.00	50.62	-1.2	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.863	0.050	50.00	49.57	0.9	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.738	0.050	50.00	50.74	-1.5	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.836	0.050	50.00	49.24	1.5	40.0	PASS	PASS

JV 8-26-14

dam 8/26/14

8270C Report

Sample Name:	50ppm	**Operator Name:**	John D Caldwell	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	8/26/2014 9:36:23 AM
Calculation Date:	8/26/2014 9:58:54 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.178	438	Identified	162809	40.000
Naphthalene-d8 (I.S)	6.902	619	Identified	497468	40.000
Acenaphthene-d10 (I.S)	9.499	892	Identified	222276	40.000
Phenanthrene-d10	11.744	1128	Identified	395369	40.000
Chrysene-d12 I.S	15.763	1554	Identified	443428	40.000
Perylene-d12 I.S	17.914	1777	Identified	549456	40.000
N-nitrosodimethylamine	2.590	163	Identified	713139	58.670
Pyridine	2.633	168	Identified	2.336E6	63.515
2-Fluorophenol	3.704	282	Identified	236260	50.603
Phenol-d5	4.709	389	Identified	224534	50.526
Phenol	4.725	391	Identified	229180	45.853
Aniline	4.777	396	Identified	690303	41.434
Bis(2-chloroethyl)ether	4.833	402	Identified	371467	45.174
2-Chlorophenol	4.922	411	Identified	237477	48.772
1,3-Dichlorobenzene	5.108	431	Identified	296251	48.276
1,4-Dichlorobenzene	5.198	440	Identified	297568	51.252
Benzyl alcohol	5.342	455	Identified	223791	49.003
1,2-Dichlorobenzene	5.395	461	Identified	287071	50.140
2-Methylphenol	5.482	470	Identified	188084	47.344
Bis(2-chloroisopropyl)ether	5.501	472	Identified	253319	44.265
3+4-Methylphenol	5.687	491	Identified	214977	42.956
N-Nitrosodi-n-propylamine	5.678	490	Identified	648819	45.003
Hexachloroethane	5.834	507	Identified	922328	48.905
Nitrobenzene-d5	5.908	514	Identified	195604	51.192

JV 8.26.14

√= √ disputed JD 8-26-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.933	517	Identified	198443	50.438
Isophorone	6.238	549	Identified	381068	52.332
2-Nitrophenol	6.367	563	Identified	203609	52.792
2,4-Dimethylphenol	6.415	568	Identified	229399	50.576
Benzoic acid	6.527	579	Identified	1.562E6	57.148
Bis(2-chloroethoxy)methane	6.542	581	Identified	241477	53.631
2,4-Dichlorophenol	6.703	598	Identified	218627	49.743
1,2,4-Trichlorobenzene	6.817	610	Identified	204900	50.409
Naphthalene	6.933	622	Identified	554139	53.686
4-Chloroaniline	7.020	631	Identified	240950	50.022
Hexachlorobutadiene	7.091	638	Identified	388093	46.917
4-Chloro-3-methylphenol	7.733	707	Identified	246469	47.285
2-Methylnaphthalene	7.935	728	Failed √	137113	43.754
1-Methylnaphthalene	8.083	743	Failed √	144792	45.385
Hexachlorocyclopentadiene	8.158	751	Identified	255017	40.846
2,4,6-Trichlorophenol	8.366	773	Failed √	90570	45.512
2,4,5-Trichlorophenol	8.423	779	Failed √	80255	43.478
2-Fluorobiphenyl	8.480	785	Identified	428915	50.292
2-Chloronaphthalene	8.662	804	Identified	435716	50.106
2-Nitroaniline	8.840	823	Identified	283075	45.675
Dimethyl phthalate	9.098	850	Identified	783442	48.980
2,6-Dinitrotoluene	9.203	861	Identified	187009	48.769
Acenaphthylene	9.286	869	Identified	531409	49.080
3-Nitroaniline	9.463	888	Identified	279617	46.247
Acenaphthene	9.548	897	Identified	331468	47.218
2,4-Dinitrophenol	9.616	904	Identified	691952	59.439
4-Nitrophenol	9.745	917	Identified	53345	49.696
Dibenzofuran	9.807	924	Failed √	203548	39.898
2,4-Dinitrotoluene	9.810	924	Identified	85993	41.911
Diethyl phthalate	10.155	960	Identified √	621325	44.027
4-Chlorophenyl phenyl ether	10.322	978	Failed √	166213	35.511
Fluorene	10.323	978	Identified	629840	43.657
4-Nitroaniline	10.389	985	Identified	493011	45.981
4,6-Dinitro-2-methylphenol	10.424	988	Identified	815828	65.952
N-Nitrosodiphenylamine	10.514	998	Identified	331889	50.411
Azobenzene	10.563	1003	Identified	471312	50.848
2,4,6-Tribromophenol	10.696	1017	Identified	851633	51.990
4-Bromophenyl phenyl ether	11.063	1056	Identified	243675	48.284
Hexachlorobenzene	11.152	1065	Identified	255997	46.833
Pentachlorophenol	11.467	1098	Identified	807936	57.176
Phenanthrene	11.779	1131	Identified	506241	53.266
Anthracene	11.856	1139	Identified	517040	53.720
Carbazole	12.122	1167	Identified	461893	49.249
Di-n-butyl phthalate	12.624	1221	Identified	1.020E6	51.396
Fluoranthene	13.587	1324	Identified	450338	48.912
Benzidine	13.816	1348	Identified	228526	37.647
Pyrene	13.932	1360	Identified	431513	47.029
4-Terphenyl-d14	14.165	1385	Identified	625055	47.123
Butyl benzyl phthalate	14.904	1463	Identified	531152	50.536
3,3'-Dichlorobenzidine	15.731	1550	Identified	1.031E6	48.453

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.747	1552	Identified	793636	39.825
Bis(2-ethylhexyl)phthalate	15.744	1552	Identified	456547	34.923
Chrysene	15.802	1558	Identified	1.024E6	44.765
Di-n-octyl phthalate	16.675	1649	Identified	1.359E6	51.519
Benzo(b)fluoranthene	17.298	1714	Identified	982941	49.477
Benzo[k]fluoranthene	17.338	1718	Identified	992908	49.785
Benzo[a]pyrene	17.818	1767	Identified	951378	50.622
Indeno[1,2,3-cd]pyrene	19.954	1988	Identified	592696	49.574
Dibenz[a,h]anthracene	19.993	1992	Identified	506533	50.740
Benzo[g,h,i]perylene	20.584	2053	Identified	574378	49.245

```
************************************************************
Revision Log
************************************************************

8/26/2014 9:58 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 042514.mth'
```

8/26/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408B56**
Date Reported:

L4

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408B56

Lab ID: 1408B56-001
Client Sample ID: FFOR-CF-0051

Collection Date: 8/21/2014 3:21:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/26/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	3.1	0.29		mg/Kg-dry	1	14919	8/25/2014 1:38:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 8/22/14

QA'd/Date: DO 8/25/14

Prep Start Date: **8/22/2014 2:27:07 P**
Prep End Date:

Prep Batch ID: **14919** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14919		Soil			1.0149	0	0	50	50.000	8/22/2014	
LCS-14919		Soil			1.0219	0	0	50	50.000	8/22/2014	
1408914-001A	13-006(700) B1@20'	Soil			1.0376	0	0	50	50.000	8/22/2014	
1408914-003A	13-006(700) B3@20'	Soil			1.9812	0	0	50	50.000	8/22/2014	
1408914-006A	13-006(700) B6@15'	Soil			1.0265	0	0	50	50.000	8/22/2014	
1408914-006AMS		Soil			1.9911	0	0	50	50.000	8/22/2014	
1408914-006AMSD		Soil			1.9864	0	0	50	50.000	8/22/2014	
1408914-007A	13-006(700) B7@20'	Soil			1.9834	0	0	50	50.000	8/22/2014	
1408A76-001A	FFOR-CF-0048	MeOH (Soil)			1.9820	0	0	50	50.000	8/22/2014	
1408A76-002A	FFOR-CF-0049	MeOH (Soil)			1.9990	0	0	50	50.000	8/22/2014	
1408A76-003A	FFOR-CF-0050	MeOH (Soil)			1.0079	0	0	50	50.000	8/22/2014	
1408B56-001A	FFOR-CF-0051	MeOH (Soil)			1.9808	0	0	50	50.000	8/22/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		14919		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4706	Tubes 1 12		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1 13		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1 15		HCl /		HCl /
	Filters /		Filters /	4722	Filters 1 1		Filters /		Filters /
				4684	H_2O_2 1 11		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 1		TCLP Fluid /		

Standards:

ST6020 -		Exp:	ST6010 - 14139	Exp: 3/31/15	Exp:
ST6020 -		Exp:	ST6010 - 14257	Exp: 5/31/15	Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawan	Digestion Block:
Position: D4	Position:
Therm ID: DBT-22	Therm ID:
Calibration Exp: 8/9/15	Calibration Exp:
Temp: 90.7 °C	Temp: °C
CF: −0 °C	CF: °C
Corr. Temp: = 90.7 °C	Corr. Temp: = °C
Analyst: MD	Analyst:
Date/Time: 8/22/14 14:57	Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5012 Rm Temp (°C): 21.1 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

Pipette No.: P15 Wt. DI (g): 0.2505 Rm Temp (°C): 21.1 Analyst: MD

Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 8/22/14 QA'd/Date: MD 8/25/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: ___AF__ and __CMS___

Run No.: 20773

ICP-OES Analysis Summary

Instrument: I575

Data Imported By: JMF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 0825M BM914 **Prep Batch ID:** BM914

Calibration

	Standard ID
ST1	ST6010- 14351
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- JMF 8/25/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14337
ICV CAT	ST6010- JMF 8/25/14
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14376

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14257	Custom Spike 1101	100µL	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 50ml 50µl	Wt DI (g): 0.0499	Rm Temp (°C): 21.7	Analyst: JMF
Pipette No: P20	Spike Volume: ~~50µl~~ 5/2/14	Wt DI (g): 0.5046	Rm Temp (°C): 21.7	Analyst: JMF
Pipette No: P35	Spike Volume: 1ml	Wt DI (g): 1.0067	Rm Temp (°C): 21.7	Analyst: JMF
Pipette No:	Spike Volume:	Wt DI (g):	Rm Temp (°C):	Analyst:

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Se	1408B70-00IA	0.610185	50	50	5	3.05	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result: _____ mg/L

Analyst/Date: JMF 8/25/14 Qa'd by/Date: JMF 8/25/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: af and bz.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 080714 6010SOIL

notations by inputting analyst - DW 8/25/14

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	101	MB-14919	Analyzed
17	102	LCS-14919	Analyzed
18	103	MB-14915	Analyzed
19	104	LCS-14915	Analyzed
20	105	MB-14914	Analyzed
21	106	LCS-14914	Analyzed
22	201	LCS DISS 50UL TEST	Analyzed
23	202	LCS DISS (100UL) TEST	Analyzed
24	12	BLANK	
25	12	BLANK	
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	107	1408B70-001A	Analyzed
30	108	1408B70-001AMS	Analyzed
31	109	1408B70-001AMSD	Analyzed
32	110	1408B70-001A 5X	Analyzed
33	111	1408B70-001AMS 5X	Analyzed
34	112	1408B70-001AMSD 5X	Analyzed
35	113	1407B70-002A	Analyzed
36	114	1408A89-001B	Samp Limit Failed
37	115	1408A89-001BMS	Analyzed
38	116	1408A89-001BMSD	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	117	1408B02-001A	Samp Limit Failed
43	118	1408A76-001A	IS Check Failed
44	119	1408A76-002A	IS Check Failed
45	120	1408A76-003A	IS Check Failed
46	121	1408B56-001A	Analyzed
47	122	1408914-001A	Analyzed
48	123	1408914-003A	Analyzed
49	124	1408914-006A	Analyzed
50	125	1408914-006AMS	Analyzed
51	126	1408914-006AMSD	Analyzed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	Analyzed
55	127	1408914-007A	Analyzed

Sample Information Detail Report
Document Name: 082514 B14914

File Description
Hall Design

Parameters Common to All Samples

Batch ID	082514 B14914
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

* Priority added samples
dw 8/25/14

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14919	MBLK
2	102	LCS-14919	LCS
3	103	MB-14915	MBLK
4	104	LCS-14915	LCS
5	105	MB-14914	MBLK
6	106	LCS-14914	LCS
7	107	1408B70-001A	SAMP
8	108	1408B70-001AMS	MS
9	109	1408B70-001AMSD	MSD
10	110	1408B70-001A 5X	SAMP
11	111	1408B70-001AMS 5X	MS
12	112	1408B70-001AMSD 5X	MSD
13	113	1407B70-002A	SAMP
14	114	1408A89-001B	SAMP
15	115	1408A89-001BMS	MS
16	116	1408A89-001BMSD	MSD
17	117	1408B02-001A	SAMP
18	118	1408A76-001A	SAMP
19	119	1408A76-002A	SAMP
20	120	1408A76-003A	SAMP
21	121	1408B56-001A	SAMP
22	122	1408914-001A	SAMP
23	123	1408914-003A	SAMP
24	124	1408914-006A	SAMP
25	125	1408914-006AMS	MS
26	126	1408914-006AMSD	MSD
27	127	1408914-007A	SAMP
28	128	1408786-001A 5X	SAMP
29	129	1408786-001A 50X	SAMP
30	12	BLANK	
31	130	1408786-002A 5X	SAMP
32	131	1408786-002A 50X	SAMP
33	132	1408B70-005APS 5X	PS
34	133	1408A76-001A 2X	SAMP
35	134	1408A76-002A 2X	SAMP
36	135	1408A76-003A 2X	SAMP

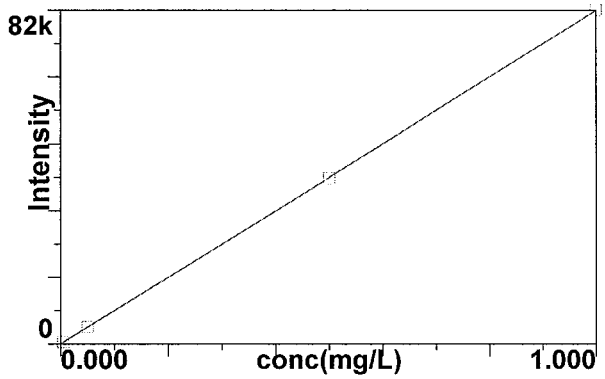
Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP	Recovery 1 of 3	
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS	Recovery 1 of 5	
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10	NAVAJO_TOTAL METALS		
11	NAVAJO_TOTAL METALS	Recovery 1 of 10	
12	NAVAJO_TOTAL METALS	Recovery 1 of 10	
13	NAVAJO_TOTAL METALS		
14	METALS_TCLP		
15	METALS_TCLP	Recovery 1 of 14	
16	METALS_TCLP	Recovery 1 of 14	

17	METALS_TCLP	
18	METALS_SOIL	
19	METALS_SOIL	
20	METALS_SOIL	
21	METALS_SOIL	
22	METALS_SOIL	
23	METALS_SOIL	
24	METALS_SOIL	
25	METALS_SOIL	Recovery 1 of 24
26	METALS_SOIL	Recovery 1 of 24
27	METALS_SOIL	
28	METALS_SOIL	
29	METALS_SOIL	
30		
31	METALS_SOIL	
32	METALS_SOIL	
33	NAVAJO_TOTAL METALS	Recovery 1 of 10
34	METALS_SOIL	
35	METALS_SOIL	
36	METALS_SOIL	

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			

Method: ISIS 080714 6010SOIL
Result: 082514 B14914

Ag 328.068



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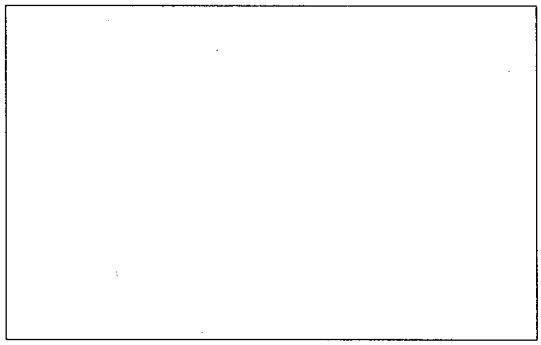
Al 396.153



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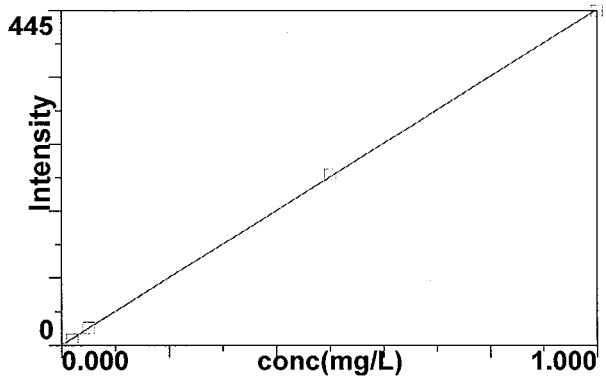

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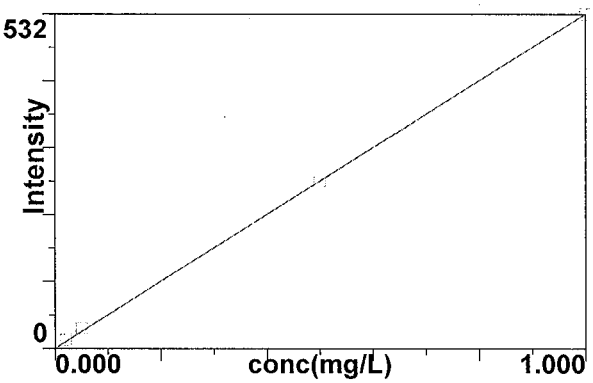

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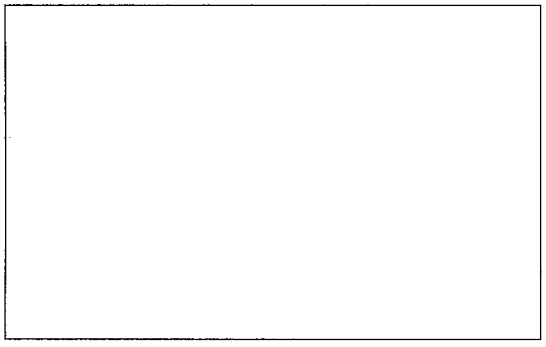

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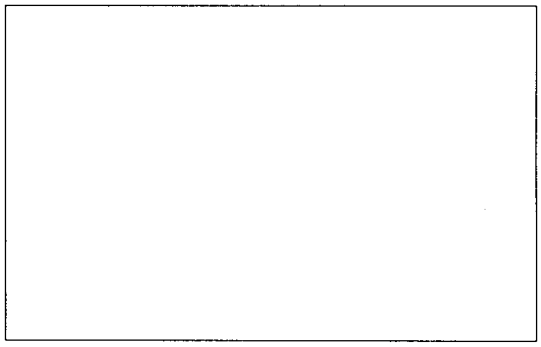

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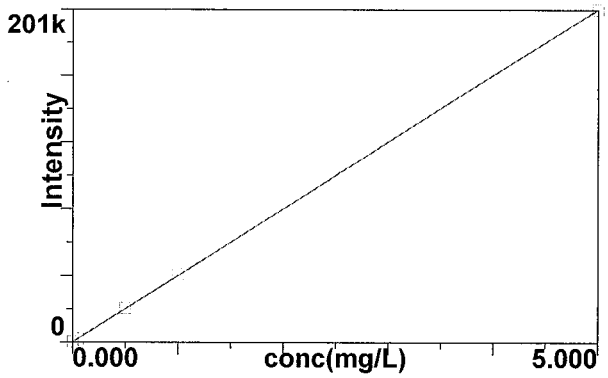
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

7

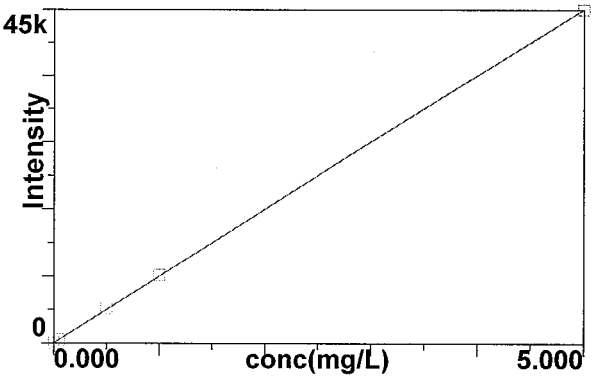
Be 313.107

8

Ca 317.933

9

Cd 228.802



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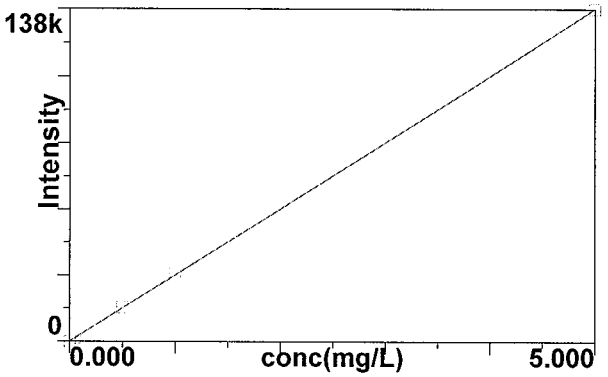
Corr Coeff: 0.999991

10

Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

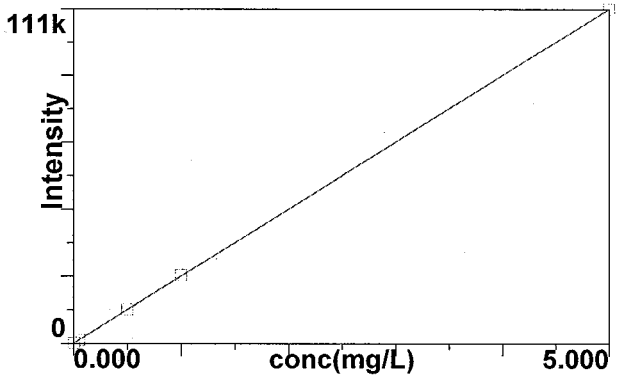
11

Co 228.616

12

Method: ISIS 080714 6010SOIL
Result: 082514 B14914

Cr 267.716



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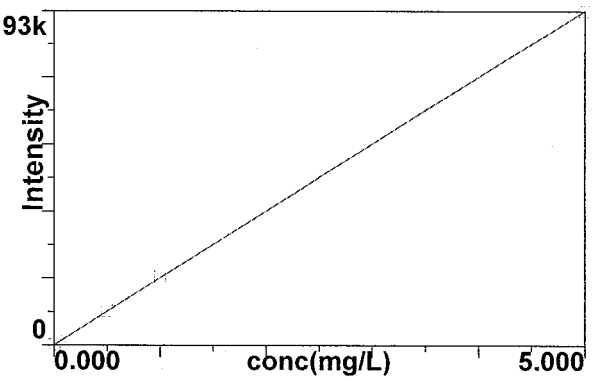
Corr Coeff: 0.999995

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

Mg 285.213

18

Mn 257.610

19

Mo 202.031

20

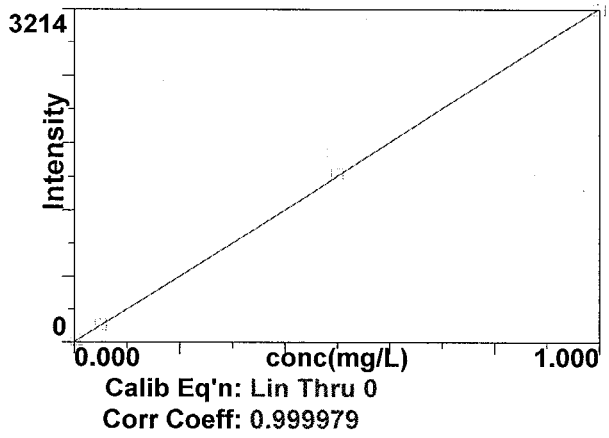
Na 589.592

21

Ni 231.604

22

Pb 220.353



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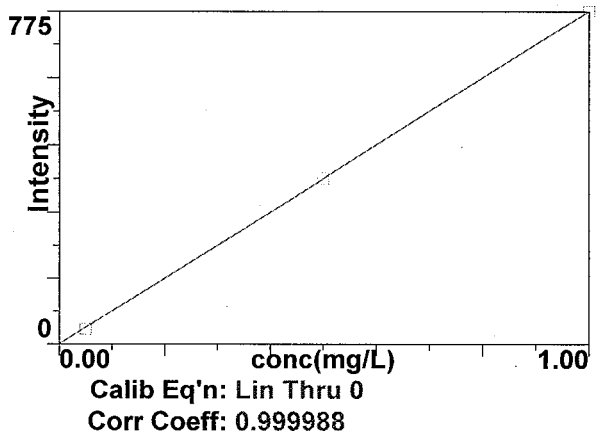
Pb 217.000



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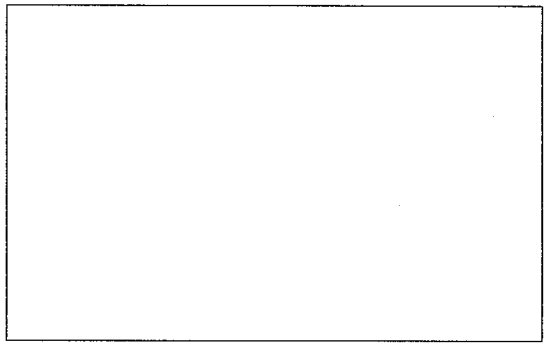

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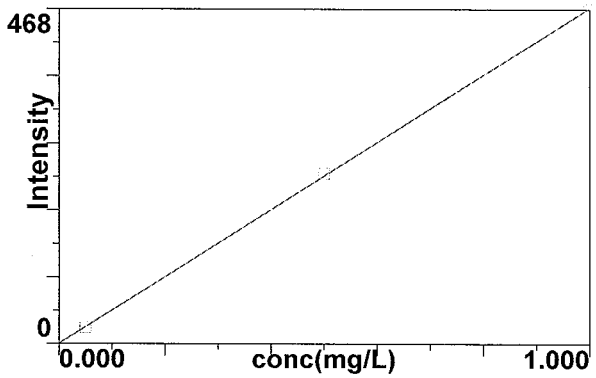

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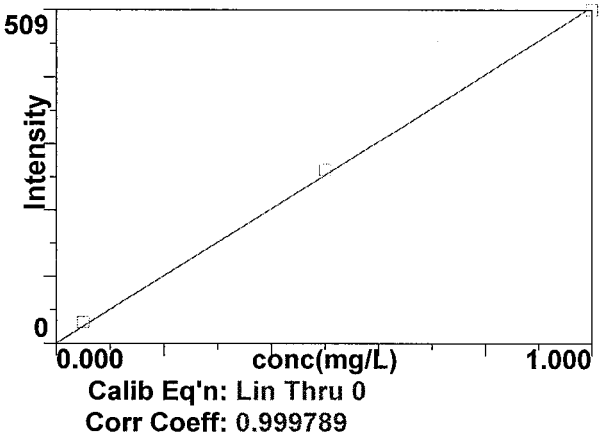

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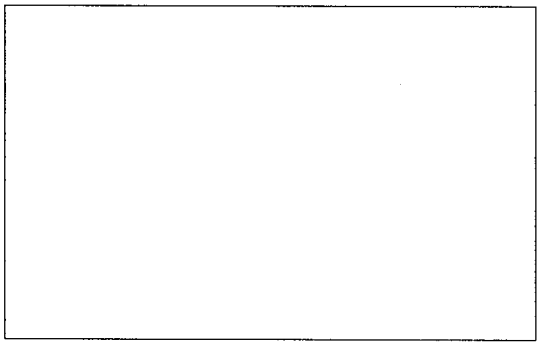

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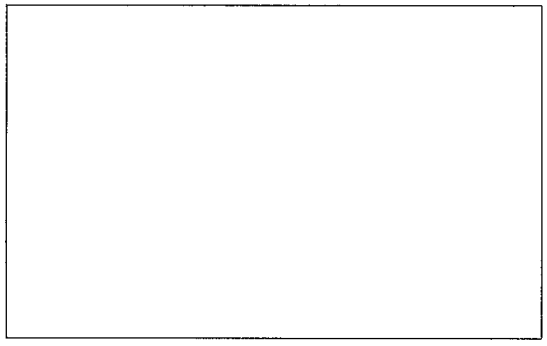

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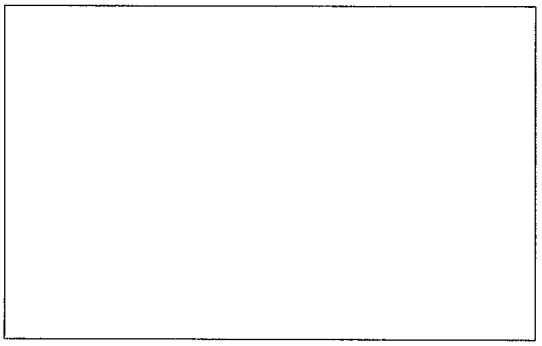
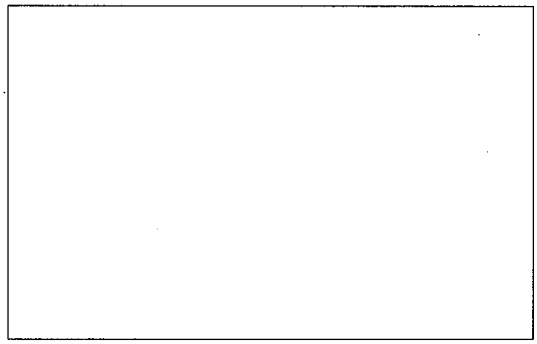


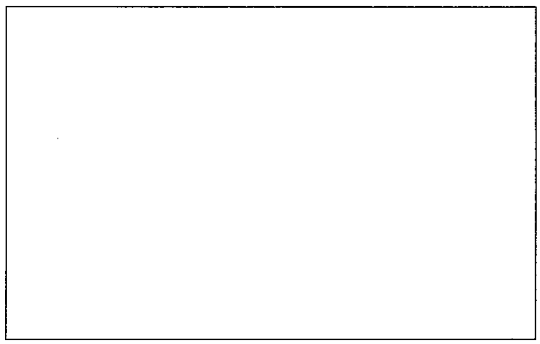
30

Tl 190.801



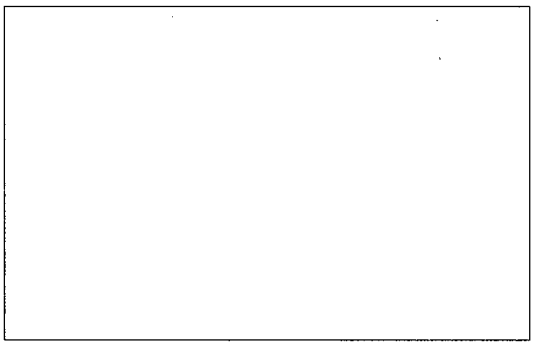
31

U 385.958



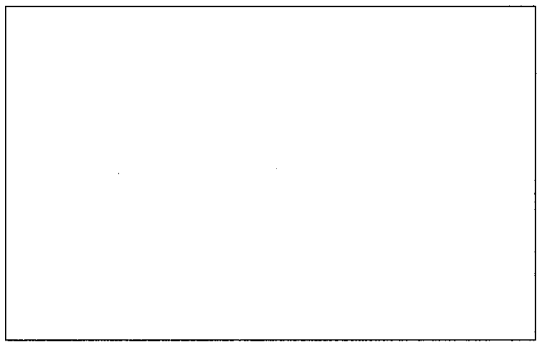
32

V 292.402



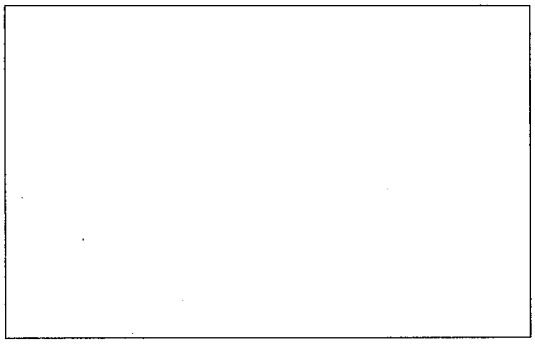
33

Zn 206.200



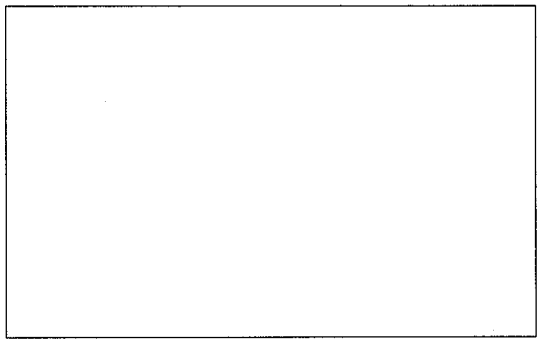
36

Sr 421.552



37

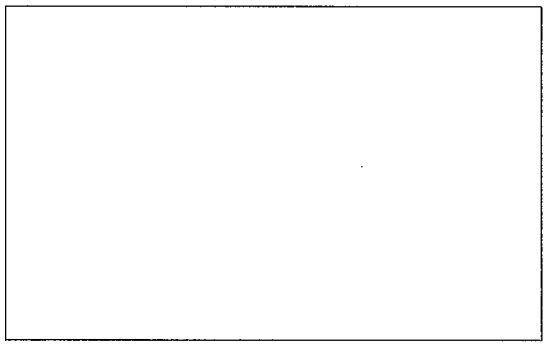
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 082514 B14914

U 424.167



39

Analysis Begun

Start Time: 8/25/2014 12:50:29 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/25/2014 12:50:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	519852.3	10693.47	2.06%	100.00	%
Ag 328.068†	36.9	19.01	51.56%	[0.00]	mg/L
As 188.979†	8.7	4.52	52.17%	[0.00]	mg/L
As 193.696†	-7.4	1.56	21.15%	[0.00]	mg/L
Ba 233.527†	1.4	9.69	688.16%	[0.00]	mg/L
Cd 228.802†	-15.2	2.64	17.36%	[0.00]	mg/L
Cd 226.502†	31.0	0.62	2.01%	[0.00]	mg/L
Cr 267.716†	-6.9	14.87	216.11%	[0.00]	mg/L
Cr 205.560†	-29.5	13.22	44.78%	[0.00]	mg/L
Pb 220.353†	-24.3	6.08	24.97%	[0.00]	mg/L
Pb 217.000†	12.6	10.48	83.27%	[0.00]	mg/L
Se 203.985†	2.1	9.95	466.53%	[0.00]	mg/L
Se 196.026†	-15.6	1.14	7.32%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/25/2014 12:51:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	502074.3	734.40	0.15%	96.580	%
Ag 328.068†	431.1	10.97	2.54%	[0.005]	mg/L
As 188.979†	7.6	1.68	22.04%	[0.02]	mg/L
As 193.696†	13.9	1.11	7.99%	[0.02]	mg/L
Ba 233.527†	97.3	4.40	4.52%	[0.002]	mg/L
Cd 228.802†	18.4	3.05	16.58%	[0.002]	mg/L
Cd 226.502†	50.7	3.66	7.21%	[0.002]	mg/L
Cr 267.716†	135.3	5.48	4.05%	[0.006]	mg/L
Cr 205.560†	103.2	9.12	8.84%	[0.006]	mg/L

Pb 220.353†	20.9	6.37	30.48%	[0.005] mg/L

Sequence No.: 3 — **Autosampler Location: 409**
Sample ID: ST2 — **Date Collected: 8/25/2014 12:53:04 PM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	506786.3	3627.00	0.72%	97.487	%
Ag 328.068†	4109.4	37.24	0.91%	[0.05]	mg/L
As 188.979†	23.1	2.22	9.64%	[0.050]	mg/L
As 193.696†	32.3	0.24	0.75%	[0.050]	mg/L
Ba 233.527†	2078.5	27.95	1.34%	[0.05]	mg/L
Cd 228.802†	466.4	3.35	0.72%	[0.05]	mg/L
Cd 226.502†	1425.1	9.16	0.64%	[0.05]	mg/L
Cr 267.716†	1154.1	12.45	1.08%	[0.05]	mg/L
Cr 205.560†	959.4	3.12	0.33%	[0.05]	mg/L
Pb 220.353†	168.6	3.26	1.94%	[0.05]	mg/L
Pb 217.000†	34.7	5.46	15.74%	[0.05]	mg/L
Se 203.985†	22.7	7.33	32.27%	[0.050]	mg/L
Se 196.026†	32.2	4.03	12.51%	[0.050]	mg/L

Sequence No.: 4 — **Autosampler Location: 2**
Sample ID: ST3 — **Date Collected: 8/25/2014 12:54:17 PM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	507572.0	3623.13	0.71%	97.638	%
Ag 328.068†	40797.0	62.34	0.15%	[0.50]	mg/L
As 188.979†	226.4	3.97	1.75%	[0.50]	mg/L
As 193.696†	265.4	5.04	1.90%	[0.50]	mg/L
Ba 233.527†	20369.7	36.88	0.18%	[0.50]	mg/L
Cd 228.802†	4616.4	52.11	1.13%	[0.50]	mg/L
Cd 226.502†	14036.3	7.68	0.05%	[0.50]	mg/L
Cr 267.716†	11221.7	42.22	0.38%	[0.50]	mg/L
Cr 205.560†	9436.9	115.34	1.22%	[0.50]	mg/L
Pb 220.353†	1631.6	13.59	0.83%	[0.50]	mg/L
Pb 217.000†	388.5	11.77	3.03%	[0.50]	mg/L
Se 203.985†	238.7	5.42	2.27%	[0.50]	mg/L
Se 196.026†	265.4	7.85	2.96%	[0.50]	mg/L

Sequence No.: 5 — **Autosampler Location: 410**
Sample ID: ST4 — **Date Collected: 8/25/2014 12:55:31 PM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**

Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	514515.9	1499.41	0.29%	98.973	%
Ag 328.068†	82051.5	77.71	0.09%	[1.00]	mg/L
As 188.979†	445.1	2.20	0.49%	[1.00]	mg/L
As 193.696†	531.9	7.83	1.47%	[1.00]	mg/L
Ba 233.527†	40965.0	38.67	0.09%	[1.00]	mg/L
Cd 228.802†	9142.9	85.23	0.93%	[1.00]	mg/L
Cd 226.502†	28220.8	50.96	0.18%	[1.00]	mg/L
Cr 267.716†	22531.1	1.75	0.01%	[1.00]	mg/L
Cr 205.560†	18909.4	43.18	0.23%	[1.00]	mg/L
Pb 220.353†	3214.4	29.36	0.91%	[1.00]	mg/L
Pb 217.000†	775.0	0.31	0.04%	[1.00]	mg/L
Se 203.985†	468.5	7.02	1.50%	[1.00]	mg/L
Se 196.026†	508.8	9.75	1.92%	[1.00]	mg/L

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Sequence No.: 6 Autosampler Location: 413
Sample ID: ST5 Date Collected: 8/25/2014 12:56:48 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	525876.1	986.32	0.19%	101.16	%
Ba 233.527†	200782.4	412.35	0.21%	[5.00]	mg/L
Cd 228.802†	44937.5	114.59	0.25%	[5.00]	mg/L
Cd 226.502†	138285.4	314.00	0.23%	[5.00]	mg/L
Cr 267.716†	110982.6	370.22	0.33%	[5.00]	mg/L
Cr 205.560†	92957.4	295.17	0.32%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	81960	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	446.7	0.00000	0.999972	
As 193.696	4	Lin Thru 0	0.0	532.0	0.00000	0.999939	
Ba 233.527	5	Lin Thru 0	0.0	40190	0.00000	0.999992	
Cd 228.802	5	Lin Thru 0	0.0	8996	0.00000	0.999991	
Cd 226.502	5	Lin Thru 0	0.0	27680	0.00000	0.999991	
Cr 267.716	5	Lin Thru 0	0.0	22210	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	18610	0.00000	0.999994	
Pb 220.353	4	Lin Thru 0	0.0	3224	0.00000	0.999979	
Pb 217.000	3	Lin Thru 0	0.0	775.2	0.00000	0.999988	
Se 203.985	3	Lin Thru 0	0.0	470.2	0.00000	0.999970	
Se 196.026	3	Lin Thru 0	0.0	513.5	0.00000	0.999789	

User canceled analysis.

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Analysis Begun

Start Time: 8/25/2014 12:57:51 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 8/25/2014 12:57:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	514547.4	98.980	%	0.2398				0.24%
Ag 328.068†	40679.0	0.49632	mg/L	0.000774	0.49632	mg/L	0.000774	0.16%
QC value within limits for Ag 328.068 Recovery = 99.26%								
As 188.979†	224.5	0.50262	mg/L	0.012230	0.50262	mg/L	0.012230	2.43%
QC value within limits for As 188.979 Recovery = 100.52%								
As 193.696†	265.4	0.49883	mg/L	0.015262	0.49883	mg/L	0.015262	3.06%
Ba 233.527†	20396.2	0.50746	mg/L	0.001349	0.50746	mg/L	0.001349	0.27%
QC value within limits for Ba 233.527 Recovery = 101.49%								
Cd 228.802†	4542.0	0.50491	mg/L	0.004960	0.50491	mg/L	0.004960	0.98%
QC value within limits for Cd 228.802 Recovery = 100.98%								
Cd 226.502†	13986.7	0.50525	mg/L	0.001743	0.50525	mg/L	0.001743	0.35%
Cr 267.716†	11126.7	0.50094	mg/L	0.000453	0.50094	mg/L	0.000453	0.09%
Cr 205.560†	9270.4	0.49824	mg/L	0.006136	0.49824	mg/L	0.006136	1.23%
QC value within limits for Cr 205.560 Recovery = 99.65%								
Pb 220.353†	1627.9	0.50485	mg/L	0.000732	0.50485	mg/L	0.000732	0.14%
QC value within limits for Pb 220.353 Recovery = 100.97%								
Pb 217.000†	393.4	0.50741	mg/L	0.008585	0.50741	mg/L	0.008585	1.69%
Se 203.985†	231.5	0.49235	mg/L	0.011594	0.49235	mg/L	0.011594	2.35%
Se 196.026†	265.7	0.51747	mg/L	0.012978	0.51747	mg/L	0.012978	2.51%
QC value within limits for Se 196.026 Recovery = 103.49%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/25/2014 12:59:07 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/25/2014 12:59:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	535271.2	102.97	%	1.585				1.54%
Ag 328.068†	-16.2	-0.00020	mg/L	0.000227	-0.00020	mg/L	0.000227	114.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.4	-0.00091	mg/L	0.003504	-0.00091	mg/L	0.003504	383.87%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.6	-0.00485	mg/L	0.003199	-0.00485	mg/L	0.003199	66.02%
Ba 233.527†	9.1	0.00023	mg/L	0.000108	0.00023	mg/L	0.000108	47.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.7	-0.00008	mg/L	0.000402	-0.00008	mg/L	0.000402	484.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-3.8	-0.00014	mg/L	0.000097	-0.00014	mg/L	0.000097	70.90%
Cr 267.716†	1.1	0.00005	mg/L	0.000328	0.00005	mg/L	0.000328	669.34%
Cr 205.560†	-3.9	-0.00021	mg/L	0.000666	-0.00021	mg/L	0.000666	320.60%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	6.1	0.00191	mg/L	0.001669	0.00191	mg/L	0.001669	87.62%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	0.3	0.00040	mg/L	0.003462	0.00040	mg/L	0.003462	864.12%
Se 203.985†	-3.5	-0.00745	mg/L	0.015489	-0.00745	mg/L	0.015489	207.77%
Se 196.026†	6.3	0.01230	mg/L	0.011089	0.01230	mg/L	0.011089	90.14%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13 **Autosampler Location: 408**
Sample ID: PQL CHECK **Date Collected: 8/25/2014 1:00:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	512068.1	98.503	%	0.7115				0.72%
Ag 328.068†	415.0	0.00506	mg/L	0.000121	0.00506	mg/L	0.000121	2.38%
QC value within limits for Ag 328.068 Recovery = 101.28%								
As 188.979†	5.1	0.01146	mg/L	0.005613	0.01146	mg/L	0.005613	48.97%
QC value within limits for As 188.979 Recovery = 57.31%								
As 193.696†	7.6	0.01436	mg/L	0.009213	0.01436	mg/L	0.009213	64.18%
Ba 233.527†	98.8	0.00246	mg/L	0.000314	0.00246	mg/L	0.000314	12.78%
QC value within limits for Ba 233.527 Recovery = 122.95%								
Cd 228.802†	18.5	0.00206	mg/L	0.000251	0.00206	mg/L	0.000251	12.22%
QC value within limits for Cd 228.802 Recovery = 102.77%								
Cd 226.502†	46.6	0.00168	mg/L	0.000071	0.00168	mg/L	0.000071	4.22%
Cr 267.716†	143.2	0.00645	mg/L	0.000361	0.00645	mg/L	0.000361	5.59%
Cr 205.560†	115.1	0.00619	mg/L	0.000671	0.00619	mg/L	0.000671	10.84%
QC value within limits for Cr 205.560 Recovery = 103.13%								
Pb 220.353†	19.3	0.00600	mg/L	0.002546	0.00600	mg/L	0.002546	42.44%
QC value within limits for Pb 220.353 Recovery = 120.00%								
Pb 217.000†	0.1	0.00013	mg/L	0.007637	0.00013	mg/L	0.007637	>999.9%
Se 203.985†	21.6	0.04601	mg/L	0.007159	0.04601	mg/L	0.007159	15.56%
Se 196.026†	34.9	0.06793	mg/L	0.005131	0.06793	mg/L	0.005131	7.55%
QC value within limits for Se 196.026 Recovery = 135.86%								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 8/25/2014 1:01:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	517707.1	99.587	%	0.4319				0.43%
Ag 328.068†	42144.9	0.51421	mg/L	0.000814	0.51421	mg/L	0.000814	0.16%
QC value within limits for Ag 328.068 Recovery = 102.84%								
As 188.979†	238.7	0.53433	mg/L	0.003741	0.53433	mg/L	0.003741	0.70%
QC value within limits for As 188.979 Recovery = 106.87%								
As 193.696†	232.4	0.43684	mg/L	0.018921	0.43684	mg/L	0.018921	4.33%
Ba 233.527†	20298.2	0.50502	mg/L	0.001448	0.50502	mg/L	0.001448	0.29%
QC value within limits for Ba 233.527 Recovery = 101.00%								
Cd 228.802†	4767.7	0.52999	mg/L	0.002749	0.52999	mg/L	0.002749	0.52%
QC value within limits for Cd 228.802 Recovery = 106.00%								
Cd 226.502†	14260.0	0.51513	mg/L	0.000517	0.51513	mg/L	0.000517	0.10%
Cr 267.716†	11072.8	0.49851	mg/L	0.000993	0.49851	mg/L	0.000993	0.20%
Cr 205.560†	9225.9	0.49585	mg/L	0.003252	0.49585	mg/L	0.003252	0.66%
QC value within limits for Cr 205.560 Recovery = 99.17%								
Pb 220.353†	1579.5	0.48985	mg/L	0.007782	0.48985	mg/L	0.007782	1.59%
QC value within limits for Pb 220.353 Recovery = 97.97%								
Pb 217.000†	405.2	0.52262	mg/L	0.015871	0.52262	mg/L	0.015871	3.04%
Se 203.985†	239.9	0.51019	mg/L	0.018660	0.51019	mg/L	0.018660	3.66%
Se 196.026†	272.4	0.53059	mg/L	0.012337	0.53059	mg/L	0.012337	2.33%
QC value within limits for Se 196.026 Recovery = 106.12%								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 8/25/2014 1:02:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	514702.8	99.009	%	0.8940				0.90%
Ag 328.068†	19.9	0.00024	mg/L	0.000220	0.00024	mg/L	0.000220	90.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.7	0.00594	mg/L	0.009685	0.00594	mg/L	0.009685	163.17%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-44.7	-0.08397	mg/L	0.006855	-0.08397	mg/L	0.006855	8.16%
Ba 233.527†	29.0	0.00072	mg/L	0.000116	0.00072	mg/L	0.000116	16.10%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-7.5	-0.00084	mg/L	0.000387	-0.00084	mg/L	0.000387	46.27%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-11.3	-0.00041	mg/L	0.000099	-0.00041	mg/L	0.000099	24.30%
Cr 267.716†	13.9	0.00063	mg/L	0.000345	0.00063	mg/L	0.000345	55.00%
Cr 205.560†	-63.8	-0.00343	mg/L	0.000156	-0.00343	mg/L	0.000156	4.57%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-30.7	-0.00951	mg/L	0.002343	-0.00951	mg/L	0.002343	24.63%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	9.1	0.01170	mg/L	0.004239	0.01170	mg/L	0.004239	36.23%
Se 203.985†	-28.7	-0.06114	mg/L	0.012539	-0.06114	mg/L	0.012539	20.51%
Se 196.026†	-6.5	-0.01260	mg/L	0.004439	-0.01260	mg/L	0.004439	35.22%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16 **Autosampler Location: 101**
Sample ID: MB-14919 **Date Collected: 8/25/2014 1:04:02 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: MB-14919

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: MB-14919

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	510806.4	98.260	%	0.5762				0.59%
Ag 328.068†	-9.4	-0.00012	mg/L	0.000070	-0.00012	mg/L	0.000070	60.41%
As 188.979†	-1.9	-0.00435	mg/L	0.014244	-0.00435	mg/L	0.014244	327.32%
As 193.696†	1.3	0.00249	mg/L	0.000869	0.00249	mg/L	0.000869	34.92%
Ba 233.527†	37.3	0.00093	mg/L	0.000574	0.00093	mg/L	0.000574	61.85%
Cd 228.802†	1.0	0.00011	mg/L	0.000274	0.00011	mg/L	0.000274	239.65%
Cd 226.502†	-11.7	-0.00042	mg/L	0.000139	-0.00042	mg/L	0.000139	32.96%
Cr 267.716†	13.2	0.00060	mg/L	0.000300	0.00060	mg/L	0.000300	50.28%
Cr 205.560†	-15.1	-0.00081	mg/L	0.000394	-0.00081	mg/L	0.000394	48.60%
Pb 220.353†	4.0	0.00125	mg/L	0.001077	0.00125	mg/L	0.001077	86.09%
Pb 217.000†	-3.4	-0.00436	mg/L	0.014115	-0.00436	mg/L	0.014115	323.88%
Se 203.985†	-3.2	-0.00674	mg/L	0.016211	-0.00674	mg/L	0.016211	240.41%
Se 196.026†	7.7	0.01506	mg/L	0.008111	0.01506	mg/L	0.008111	53.85%

Sequence No.: 17 **Autosampler Location: 102**
Sample ID: LCS-14919 **Date Collected: 8/25/2014 1:05:18 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCS-14919

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS-14919

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	497906.9	95.779	%	0.9059				0.95%
Ag 328.068†	41339.2	0.50438	mg/L	0.001679	0.50438	mg/L	0.001679	0.33%
As 188.979†	225.7	0.50529	mg/L	0.002628	0.50529	mg/L	0.002628	0.52%
As 193.696†	263.5	0.49526	mg/L	0.005757	0.49526	mg/L	0.005757	1.16%
Ba 233.527†	20016.5	0.49801	mg/L	0.001123	0.49801	mg/L	0.001123	0.23%
Cd 228.802†	4509.3	0.50126	mg/L	0.002938	0.50126	mg/L	0.002938	0.59%
Cd 226.502†	13576.1	0.49042	mg/L	0.000469	0.49042	mg/L	0.000469	0.10%
Cr 267.716†	11242.5	0.50615	mg/L	0.001128	0.50615	mg/L	0.001128	0.22%
Cr 205.560†	9394.0	0.50488	mg/L	0.002128	0.50488	mg/L	0.002128	0.42%
Pb 220.353†	1566.4	0.48579	mg/L	0.002619	0.48579	mg/L	0.002619	0.54%
Pb 217.000†	379.2	0.48913	mg/L	0.001322	0.48913	mg/L	0.001322	0.27%
Se 203.985†	208.7	0.44386	mg/L	0.016914	0.44386	mg/L	0.016914	3.81%
Se 196.026†	240.6	0.46859	mg/L	0.008634	0.46859	mg/L	0.008634	1.84%

Matrix Recovery Check: LCS-14919

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09988	0.50438	0.002	mg/L	504.5
As 188.979	0.49565	0.50529	0.003	mg/L	101.9
As 193.696	0.50249	0.49526	0.006	mg/L	98.6
Ba 233.527	0.50093	0.49801	0.001	mg/L	99.4
Cd 228.802	0.50011	0.50126	0.003	mg/L	100.2
Cd 226.502	0.49958	0.49042	0.000	mg/L	98.2
Cr 267.716	0.50060	0.50615	0.001	mg/L	101.1
Cr 205.560	0.49919	0.50488	0.002	mg/L	101.1
Pb 220.353	0.50125	0.48579	0.003	mg/L	96.9
Pb 217.000	0.49564	0.48913	0.001	mg/L	98.7
Se 203.985	0.49326	0.44386	0.017	mg/L	90.1
Se 196.026	0.51506	0.46859	0.009	mg/L	90.7

Sequence No.: 18 **Autosampler Location: 103**
Sample ID: MB-14915 **Date Collected: 8/25/2014 1:06:33 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: MB-14915

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: MB-14915

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	491752.2	94.595	%	1.0984				1.16%
Ag 328.068†	-14.9	-0.00018	mg/L	0.000298	-0.00018	mg/L	0.000298	163.98%
As 188.979†	3.5	0.00785	mg/L	0.002462	0.00785	mg/L	0.002462	31.37%
As 193.696†	0.8	0.00148	mg/L	0.002357	0.00148	mg/L	0.002357	159.38%
Ba 233.527†	27.9	0.00069	mg/L	0.000310	0.00069	mg/L	0.000310	44.66%
Cd 228.802†	-0.9	-0.00010	mg/L	0.000591	-0.00010	mg/L	0.000591	585.98%
Cd 226.502†	-4.7	-0.00017	mg/L	0.000166	-0.00017	mg/L	0.000166	96.98%
Cr 267.716†	12.4	0.00056	mg/L	0.000354	0.00056	mg/L	0.000354	63.18%
Cr 205.560†	9.3	0.00050	mg/L	0.000423	0.00050	mg/L	0.000423	84.61%
Pb 220.353†	1.7	0.00051	mg/L	0.000998	0.00051	mg/L	0.000998	194.44%
Pb 217.000†	-4.4	-0.00573	mg/L	0.005343	-0.00573	mg/L	0.005343	93.19%
Se 203.985†	-9.2	-0.01957	mg/L	0.013755	-0.01957	mg/L	0.013755	70.28%
Se 196.026†	-0.1	-0.00021	mg/L	0.013202	-0.00021	mg/L	0.013202	>999.9%

Sequence No.: 19 **Autosampler Location: 104**
Sample ID: LCS-14915 **Date Collected: 8/25/2014 1:07:47 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: LCS-14915

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS-14915

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	487410.8	93.759	%	0.5573				0.59%
Ag 328.068†	43953.8	0.53628	mg/L	0.000818	0.53628	mg/L	0.000818	0.15%
As 188.979†	246.5	0.55182	mg/L	0.002055	0.55182	mg/L	0.002055	0.37%
As 193.696†	284.8	0.53540	mg/L	0.007266	0.53540	mg/L	0.007266	1.36%
Ba 233.527†	19703.6	0.49022	mg/L	0.000735	0.49022	mg/L	0.000735	0.15%
Cd 228.802†	4772.8	0.53056	mg/L	0.003399	0.53056	mg/L	0.003399	0.64%

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS DISS (100UL) TEST

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCS DISS (100UL) TEST

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	521026.3	100.23	%	0.613				0.61%
Ag 328.068†	7324.9	0.08937	mg/L	0.000301	0.08937	mg/L	0.000301	0.34%
As 188.979†	229.7	0.51430	mg/L	0.006763	0.51430	mg/L	0.006763	1.31%
As 193.696†	274.7	0.51642	mg/L	0.009985	0.51642	mg/L	0.009985	1.93%
Ba 233.527†	20447.9	0.50874	mg/L	0.001616	0.50874	mg/L	0.001616	0.32%
Cd 228.802†	4782.1	0.53160	mg/L	0.001849	0.53160	mg/L	0.001849	0.35%
Cd 226.502†	14519.7	0.52451	mg/L	0.001424	0.52451	mg/L	0.001424	0.27%
Cr 267.716†	11224.6	0.50535	mg/L	0.000848	0.50535	mg/L	0.000848	0.17%
Cr 205.560†	9416.9	0.50611	mg/L	0.002074	0.50611	mg/L	0.002074	0.41%
Pb 220.353†	1646.3	0.51058	mg/L	0.004808	0.51058	mg/L	0.004808	0.94%
Pb 217.000†	401.8	0.51835	mg/L	0.010783	0.51835	mg/L	0.010783	2.08%
Se 203.985†	265.7	0.56515	mg/L	0.019016	0.56515	mg/L	0.019016	3.36%
Se 196.026†	283.4	0.55201	mg/L	0.010698	0.55201	mg/L	0.010698	1.94%

User canceled analysis.

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Analysis Begun

Start Time: 8/25/2014 1:14:04 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/25/2014 11:54:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082514 B14914.sif
Batch ID: 082514 B14914
Results Data Set: 082514 B14914
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 2
Date Collected: 8/25/2014 1:14:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	521053.2	100.23	%	0.677				0.68%
Ag 328.068†	41230.7	0.50306	mg/L	0.000303	0.50306	mg/L	0.000303	0.06%
QC value within limits for Ag 328.068 Recovery = 100.61%								
As 188.979†	226.0	0.50592	mg/L	0.014284	0.50592	mg/L	0.014284	2.82%
QC value within limits for As 188.979 Recovery = 101.18%								
As 193.696†	271.6	0.51047	mg/L	0.010401	0.51047	mg/L	0.010401	2.04%
Ba 233.527†	20696.4	0.51493	mg/L	0.001140	0.51493	mg/L	0.001140	0.22%
QC value within limits for Ba 233.527 Recovery = 102.99%								
Cd 228.802†	4659.3	0.51795	mg/L	0.004958	0.51795	mg/L	0.004958	0.96%
QC value within limits for Cd 228.802 Recovery = 103.59%								
Cd 226.502†	14302.1	0.51665	mg/L	0.001786	0.51665	mg/L	0.001786	0.35%
Cr 267.716†	11383.0	0.51248	mg/L	0.000844	0.51248	mg/L	0.000844	0.16%
Cr 205.560†	9542.8	0.51288	mg/L	0.004940	0.51288	mg/L	0.004940	0.96%
QC value within limits for Cr 205.560 Recovery = 102.58%								

Pb 220.353†	1649.5	0.51155 mg/L	0.004725	0.51155 mg/L	0.004725	0.92%
QC value within limits for Pb 220.353 Recovery = 102.31%						
Pb 217.000†	392.8	0.50671 mg/L	0.010929	0.50671 mg/L	0.010929	2.16%
Se 203.985†	236.3	0.50253 mg/L	0.014994	0.50253 mg/L	0.014994	2.98%
Se 196.026†	266.9	0.51988 mg/L	0.011886	0.51988 mg/L	0.011886	2.29%
QC value within limits for Se 196.026 Recovery = 103.98%						

All analyte(s) passed QC.

Sequence No.: 27 | **Autosampler Location: 1**
Sample ID: CCB | **Date Collected: 8/25/2014 1:15:17 PM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	525933.9	101.17	%	0.496				0.49%
Ag 328.068†	15.7	0.00019	mg/L	0.000165	0.00019	mg/L	0.000165	86.14%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.3	0.00060	mg/L	0.003535	0.00060	mg/L	0.003535	591.10%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.6	-0.00294	mg/L	0.009293	-0.00294	mg/L	0.009293	316.53%
Ba 233.527†	1.0	0.00002	mg/L	0.000193	0.00002	mg/L	0.000193	801.31%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.3	0.00015	mg/L	0.000019	0.00015	mg/L	0.000019	12.57%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-3.5	-0.00013	mg/L	0.000176	-0.00013	mg/L	0.000176	139.58%
Cr 267.716†	0.9	0.00004	mg/L	0.000250	0.00004	mg/L	0.000250	647.29%
Cr 205.560†	-7.1	-0.00038	mg/L	0.000587	-0.00038	mg/L	0.000587	154.51%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	3.7	0.00115	mg/L	0.001707	0.00115	mg/L	0.001707	147.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-6.5	-0.00836	mg/L	0.009648	-0.00836	mg/L	0.009648	115.34%
Se 203.985†	4.9	0.01031	mg/L	0.005557	0.01031	mg/L	0.005557	53.88%
Se 196.026†	1.8	0.00354	mg/L	0.012848	0.00354	mg/L	0.012848	363.13%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28 | **Autosampler Location: 3**
Sample ID: CCV CAT | **Date Collected: 8/25/2014 1:16:31 PM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

No CAT JMK 8/25/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	517196.7	99.489	%	0.6628				0.67%
Ag 328.068†	6.1	0.00007	mg/L	0.000173	0.00007	mg/L	0.000173	231.38%
As 188.979†	1.3	0.00301	mg/L	0.002096	0.00301	mg/L	0.002096	69.71%
As 193.696†	-1.7	-0.00329	mg/L	0.001397	-0.00329	mg/L	0.001397	42.51%
Ba 233.527†	8.0	0.00020	mg/L	0.000549	0.00020	mg/L	0.000549	274.41%
Cd 228.802†	1.4	0.00015	mg/L	0.000596	0.00015	mg/L	0.000596	394.76%

Se 196.026	0.48137	0.46355	0.014	mg/L	96.4

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 1:30:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	520538.4	100.13	%	0.355				0.35%
Ag 328.068†	41087.9	0.50131	mg/L	0.000727	0.50131	mg/L	0.000727	0.15%
QC value within limits for Ag 328.068 Recovery = 100.26%								
As 188.979†	226.7	0.50754	mg/L	0.007377	0.50754	mg/L	0.007377	1.45%
QC value within limits for As 188.979 Recovery = 101.51%								
As 193.696†	269.4	0.50645	mg/L	0.001999	0.50645	mg/L	0.001999	0.39%
Ba 233.527†	20690.2	0.51477	mg/L	0.000981	0.51477	mg/L	0.000981	0.19%
QC value within limits for Ba 233.527 Recovery = 102.95%								
Cd 228.802†	4646.0	0.51646	mg/L	0.003372	0.51646	mg/L	0.003372	0.65%
QC value within limits for Cd 228.802 Recovery = 103.29%								
Cd 226.502†	14233.6	0.51417	mg/L	0.000486	0.51417	mg/L	0.000486	0.09%
Cr 267.716†	11345.5	0.51079	mg/L	0.001604	0.51079	mg/L	0.001604	0.31%
Cr 205.560†	9503.6	0.51077	mg/L	0.003056	0.51077	mg/L	0.003056	0.60%
QC value within limits for Cr 205.560 Recovery = 102.15%								
Pb 220.353†	1633.4	0.50656	mg/L	0.005427	0.50656	mg/L	0.005427	1.07%
QC value within limits for Pb 220.353 Recovery = 101.31%								
Pb 217.000†	390.4	0.50355	mg/L	0.008214	0.50355	mg/L	0.008214	1.63%
Se 203.985†	236.3	0.50256	mg/L	0.035507	0.50256	mg/L	0.035507	7.07%
Se 196.026†	264.3	0.51469	mg/L	0.012848	0.51469	mg/L	0.012848	2.50%
QC value within limits for Se 196.026 Recovery = 102.94%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 1:31:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	516043.5	99.267	%	0.4457				0.45%
Ag 328.068†	-6.6	-0.00008	mg/L	0.000087	-0.00008	mg/L	0.000087	108.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-2.0	-0.00437	mg/L	0.009902	-0.00437	mg/L	0.009902	226.72%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.6	0.00110	mg/L	0.005927	0.00110	mg/L	0.005927	536.59%
Ba 233.527†	3.5	0.00009	mg/L	0.000770	0.00009	mg/L	0.000770	888.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.0	0.00022	mg/L	0.000287	0.00022	mg/L	0.000287	130.75%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-2.0	-0.00007	mg/L	0.000180	-0.00007	mg/L	0.000180	250.83%
Cr 267.716†	-2.8	-0.00012	mg/L	0.000124	-0.00012	mg/L	0.000124	99.46%

Cr 205.560†	12.0	0.00065	mg/L	0.000700	0.00065	mg/L	0.000700 108.38%
QC value within limits for Cr 205.560 Recovery = Not calculated							
Pb 220.353†	3.9	0.00120	mg/L	0.000852	0.00120	mg/L	0.000852 70.69%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	-5.9	-0.00766	mg/L	0.004748	-0.00766	mg/L	0.004748 62.00%
Se 203.985†	1.3	0.00287	mg/L	0.010309	0.00287	mg/L	0.010309 359.19%
Se 196.026†	-0.1	-0.00016	mg/L	0.009504	-0.00016	mg/L	0.009504 >999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 41 **Autosampler Location: 3**
Sample ID: CCV CAT **Date Collected: 8/25/2014 1:32:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

NO CAT JWF 8/25/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	517002.1	99.452	%	1.0059				1.01%
Ag 328.068†	5.1	0.00006	mg/L	0.000345	0.00006	mg/L	0.000345	549.41%
As 188.979†	-0.5	-0.00101	mg/L	0.007127	-0.00101	mg/L	0.007127	703.80%
As 193.696†	0.7	0.00137	mg/L	0.007180	0.00137	mg/L	0.007180	523.09%
Ba 233.527†	1.7	0.00004	mg/L	0.000236	0.00004	mg/L	0.000236	541.98%
Cd 228.802†	-0.2	-0.00002	mg/L	0.000230	-0.00002	mg/L	0.000230	938.40%
Cd 226.502†	1.0	0.00004	mg/L	0.000160	0.00004	mg/L	0.000160	439.36%
Cr 267.716†	2.1	0.00010	mg/L	0.000278	0.00010	mg/L	0.000278	292.29%
Cr 205.560†	1.4	0.00007	mg/L	0.000299	0.00007	mg/L	0.000299	400.94%
Pb 220.353†	1.6	0.00050	mg/L	0.002081	0.00050	mg/L	0.002081	420.16%
Pb 217.000†	-4.8	-0.00621	mg/L	0.004371	-0.00621	mg/L	0.004371	70.35%
Se 203.985†	4.2	0.00901	mg/L	0.004269	0.00901	mg/L	0.004269	47.38%
Se 196.026†	-2.4	-0.00460	mg/L	0.008814	-0.00460	mg/L	0.008814	191.42%

All analyte(s) passed QC.

Sequence No.: 42 **Autosampler Location: 117**
Sample ID: 1408B02-001A **Date Collected: 8/25/2014 1:33:51 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408B02-001A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408B02-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	460482.5	88.579	%	0.7286				0.82%
Ag 328.068†	-189.4	-0.00231	mg/L	0.000402	-0.00231	mg/L	0.000402	17.37%
As 188.979†	1.4	0.00321	mg/L	0.003342	0.00321	mg/L	0.003342	104.01%
As 193.696†	-6.8	-0.01276	mg/L	0.010284	-0.01276	mg/L	0.010284	80.58%
Ba 233.527†	33934.6	0.84429	mg/L	0.001535	0.84429	mg/L	0.001535	0.18%
Cd 228.802†	-18.6	-0.00207	mg/L	0.000357	-0.00207	mg/L	0.000357	17.24%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	2.8	0.00010	mg/L	0.000148	0.00010	mg/L	0.000148	148.46%
Cr 267.716†	24.8	0.00112	mg/L	0.000197	0.00112	mg/L	0.000197	17.64%
Cr 205.560†	-27.2	-0.00146	mg/L	0.000503	-0.00146	mg/L	0.000503	34.37%
Pb 220.353†	1.7	0.00053	mg/L	0.002371	0.00053	mg/L	0.002371	444.74%

Sequence No.: 45
Sample ID: 1408A76-003A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 120
Date Collected: 8/25/2014 1:37:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408A76-003A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408A76-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	641927.6	123.48	%	0.599				0.49%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 123.5%								
Ag 328.068†	-249.2	-0.00304	mg/L	0.000267	-0.00304	mg/L	0.000267	8.78%
As 188.979†	11.1	0.02491	mg/L	0.010651	0.02491	mg/L	0.010651	42.76%
As 193.696†	-62.6	-0.11773	mg/L	0.005140	-0.11773	mg/L	0.005140	4.37%
Ba 233.527†	102071.9	2.5395	mg/L	0.00300	2.5395	mg/L	0.00300	0.12%
Cd 228.802†	-5.4	-0.00060	mg/L	0.000027	-0.00060	mg/L	0.000027	4.53%
Cd 226.502†	-203.8	-0.00736	mg/L	0.000146	-0.00736	mg/L	0.000146	1.98%
Cr 267.716†	2349.6	0.10578	mg/L	0.000914	0.10578	mg/L	0.000914	0.86%
Cr 205.560†	1534.2	0.08246	mg/L	0.000836	0.08246	mg/L	0.000836	1.01%
Pb 220.353†	3110.0	0.96452	mg/L	0.006183	0.96452	mg/L	0.006183	0.64%
Pb 217.000†	852.2	1.0993	mg/L	0.01516	1.0993	mg/L	0.01516	1.38%
Se 203.985†	-1.1	-0.00232	mg/L	0.003477	-0.00232	mg/L	0.003477	149.83%
Se 196.026†	-21.0	-0.04096	mg/L	0.018486	-0.04096	mg/L	0.018486	45.14%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 46
Sample ID: 1408B56-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 121
Date Collected: 8/25/2014 1:38:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408B56-001A

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408B56-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	603737.2	116.14	%	0.624				0.54%
Ag 328.068†	-225.6	-0.00275	mg/L	0.000299	-0.00275	mg/L	0.000299	10.86%
As 188.979†	26.1	0.05853	mg/L	0.008093	0.05853	mg/L	0.008093	13.83%
As 193.696†	-139.6	-0.26238	mg/L	0.003391	-0.26238	mg/L	0.003391	1.29%
Ba 233.527†	65033.2	1.6180	mg/L	0.00436	1.6180	mg/L	0.00436	0.27%
Cd 228.802†	-6.4	-0.00071	mg/L	0.000465	-0.00071	mg/L	0.000465	65.43%
Cd 226.502†	-200.1	-0.00723	mg/L	0.000199	-0.00723	mg/L	0.000199	2.75%
Cr 267.716†	3537.7	0.15927	mg/L	0.000968	0.15927	mg/L	0.000968	0.61%
Cr 205.560†	2528.8	0.13591	mg/L	0.001170	0.13591	mg/L	0.001170	0.86%
Pb 220.353†	174.1	0.05401	mg/L	0.000805	0.05401	mg/L	0.000805	1.49%
Pb 217.000†	101.5	0.13095	mg/L	0.012951	0.13095	mg/L	0.012951	9.89%
Se 203.985†	1.9	0.00399	mg/L	0.034149	0.00399	mg/L	0.034149	856.69%
Se 196.026†	-23.9	-0.04658	mg/L	0.022350	-0.04658	mg/L	0.022350	47.98%

Sequence No.: 47
Sample ID: 1408914-001A
Analyst: JORGE
Initial Sample Wt:

Autosampler Location: 122
Date Collected: 8/25/2014 1:40:00 PM
Data Type: Original
Initial Sample Vol:

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408914-006AMSD

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: 1408914-006AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	566054.0	108.89	%	0.701				0.64%
Ag 328.068†	34889.2	0.42568	mg/L	0.000235	0.42568	mg/L	0.000235	0.06%
As 188.979†	199.2	0.44590	mg/L	0.007128	0.44590	mg/L	0.007128	1.60%
As 193.696†	196.2	0.36886	mg/L	0.014162	0.36886	mg/L	0.014162	3.84%
Ba 233.527†	43904.0	1.0923	mg/L	0.00275	1.0923	mg/L	0.00275	0.25%
Cd 228.802†	3783.9	0.42063	mg/L	0.002880	0.42063	mg/L	0.002880	0.68%
Cd 226.502†	11093.4	0.40073	mg/L	0.000955	0.40073	mg/L	0.000955	0.24%
Cr 267.716†	10267.5	0.46226	mg/L	0.001203	0.46226	mg/L	0.001203	0.26%
Cr 205.560†	8383.4	0.45056	mg/L	0.002381	0.45056	mg/L	0.002381	0.53%
Pb 220.353†	1576.0	0.48875	mg/L	0.002858	0.48875	mg/L	0.002858	0.58%
Pb 217.000†	395.3	0.50996	mg/L	0.002576	0.50996	mg/L	0.002576	0.51%
Se 203.985†	164.4	0.34961	mg/L	0.023273	0.34961	mg/L	0.023273	6.66%
Se 196.026†	199.9	0.38926	mg/L	0.016320	0.38926	mg/L	0.016320	4.19%

Matrix Recovery Check: 1408914-006AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09904	0.42568	0.000	mg/L	426.6
As 188.979	0.53948	0.44590	0.007	mg/L	81.3
As 193.696	0.45991	0.36886	0.014	mg/L	81.8
Ba 233.527	2.8278	1.0923	0.003	mg/L	-247.1
Cd 228.802	0.49952	0.42063	0.003	mg/L	84.2
Cd 226.502	0.49592	0.40073	0.001	mg/L	81.0
Cr 267.716	0.54392	0.46226	0.001	mg/L	83.7
Cr 205.560	0.53255	0.45056	0.002	mg/L	83.6
Pb 220.353	0.54381	0.48875	0.003	mg/L	89.0
Pb 217.000	0.54349	0.50996	0.003	mg/L	93.3
Se 203.985	0.42777	0.34961	0.023	mg/L	84.4
Se 196.026	0.47921	0.38926	0.016	mg/L	82.0

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Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/25/2014 1:46:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	515328.8	99.130	%	0.9629				0.97%
Ag 328.068†	41201.9	0.50270	mg/L	0.000316	0.50270	mg/L	0.000316	0.06%
QC value within limits for Ag 328.068 Recovery = 100.54%								
As 188.979†	226.6	0.50722	mg/L	0.005887	0.50722	mg/L	0.005887	1.16%
QC value within limits for As 188.979 Recovery = 101.44%								
As 193.696†	268.4	0.50447	mg/L	0.006133	0.50447	mg/L	0.006133	1.22%
Ba 233.527†	20727.1	0.51569	mg/L	0.000926	0.51569	mg/L	0.000926	0.18%
QC value within limits for Ba 233.527 Recovery = 103.14%								
Cd 228.802†	4664.6	0.51853	mg/L	0.002804	0.51853	mg/L	0.002804	0.54%

QC value within limits for Cd 228.802 Recovery = 103.71%

Cd 226.502†	14265.7	0.51533 mg/L	0.000403	0.51533 mg/L	0.000403	0.08%
Cr 267.716†	11372.4	0.51200 mg/L	0.001140	0.51200 mg/L	0.001140	0.22%
Cr 205.560†	9544.3	0.51296 mg/L	0.003502	0.51296 mg/L	0.003502	0.68%

QC value within limits for Cr 205.560 Recovery = 102.59%

Pb 220.353†	1656.7	0.51380 mg/L	0.002809	0.51380 mg/L	0.002809	0.55%

QC value within limits for Pb 220.353 Recovery = 102.76%

Pb 217.000†	387.8	0.50026 mg/L	0.010609	0.50026 mg/L	0.010609	2.12%
Se 203.985†	248.0	0.52737 mg/L	0.004560	0.52737 mg/L	0.004560	0.86%
Se 196.026†	266.8	0.51967 mg/L	0.018586	0.51967 mg/L	0.018586	3.58%

QC value within limits for Se 196.026 Recovery = 103.93%

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/25/2014 1:47:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	532269.0	102.39	%	0.630				0.62%
Ag 328.068†	8.7	0.00011	mg/L	0.000252	0.00011	mg/L	0.000252	237.91%

QC value within limits for Ag 328.068 Recovery = Not calculated

As 188.979†	-0.4	-0.00083	mg/L	0.005304	-0.00083	mg/L	0.005304	635.16%

QC value within limits for As 188.979 Recovery = Not calculated

As 193.696†	-0.6	-0.00115	mg/L	0.007995	-0.00115	mg/L	0.007995	697.55%
Ba 233.527†	7.0	0.00018	mg/L	0.000298	0.00018	mg/L	0.000298	170.07%

QC value within limits for Ba 233.527 Recovery = Not calculated

Cd 228.802†	-3.1	-0.00034	mg/L	0.000314	-0.00034	mg/L	0.000314	92.14%

QC value within limits for Cd 228.802 Recovery = Not calculated

Cd 226.502†	-1.7	-0.00006	mg/L	0.000241	-0.00006	mg/L	0.000241	399.92%
Cr 267.716†	-0.0	-0.00000	mg/L	0.000302	-0.00000	mg/L	0.000302	>999.9%
Cr 205.560†	4.6	0.00025	mg/L	0.001820	0.00025	mg/L	0.001820	735.32%

QC value within limits for Cr 205.560 Recovery = Not calculated

Pb 220.353†	4.5	0.00140	mg/L	0.001496	0.00140	mg/L	0.001496	106.65%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	-8.1	-0.01043	mg/L	0.002221	-0.01043	mg/L	0.002221	21.30%
Se 203.985†	-1.6	-0.00350	mg/L	0.003274	-0.00350	mg/L	0.003274	93.51%
Se 196.026†	-1.9	-0.00363	mg/L	0.010541	-0.00363	mg/L	0.010541	290.53%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/25/2014 1:48:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

No CAT SMF 8/25/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	524523.6	100.90	%	0.493				0.49%

8/29/14

Analytical Report
Lab Order: **1408E34**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Lab ID: 1408E34-001
Client Sample ID: FFOR-CF-0052
Collection Date: 8/27/2014
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	5.6	1.0		wt%	1	R20900	8/28/2014 8:19:00 AM

Lab ID: 1408E34-002
Client Sample ID: FFOR-CF-0053
Collection Date: 8/27/2014
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.1	1.0		wt%	1	R20900	8/28/2014 8:19:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-28-14		Thermometer ID: P-Moist Therm-4	
Oven Name: Hephaestus	Analyst:	Thermometer Exp Date: 7/17/2015	
Start time: 8-28-14 8:19	Start Temp: 110C	Reviewed by: WBS 8/29/14	
End time: 8-29-14 13:50	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408e34-001a	31.8	39.62				7.8030		#VALUE!
1408e34-002a	31.6	39.31				7.6990		#VALUE!
MeOH Kits								#VALUE!
1408e34-001a	26.0	40.67	1.00	2.00	2.00	14.6700	0.0000	0.6817
1408e34-002a	26.1	40.74	1.00	2.00	2.00	14.6400	0.0000	0.6831
Pmoist								#VALUE!
1408e34-001a			1.38	22.84	21.64		5.5918	#VALUE!
1408e34-002a			1.32	24.16	22.53		7.1366	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408e34-002a $\frac{24.16 - 22.53}{24.16 - 1.32} \times 100 = 7.1366\%$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1408e34-002a $\frac{10g}{14.64g} = 0.6831$ cgs 8-29-14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

Analytical Report
Lab Order: **1408E34**
Date Reported:

8-29-14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Lab ID: 1408E34-001 **Collection Date:** 8/27/2014
Client Sample ID: FFOR-CF-0052 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	27	10		mg/Kg	1	15013	8/29/2014 9:41:35 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	15013	8/29/2014 9:41:35 AM
Surr: DNOP	129	57.9-140		%REC	1	15013	8/29/2014 9:41:35 AM

Lab ID: 1408E34-002 **Collection Date:** 8/27/2014
Client Sample ID: FFOR-CF-0053 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	3000	100		mg/Kg	10	15013	8/29/2014 12:13:25 PM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	15013	8/29/2014 12:13:25 PM
Surr: DNOP	0	57.9-140	S	%REC	10	15013	8/29/2014 12:13:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **8/28/2014 10:25:19**
Prep End Date:

Reviewed By: JR 8/28/14

Prep Batch ID: **15013** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**

Initial Temp: **°C** Final Temp **°C**

Sample Matrix not Conducive to MS/MSD JR 8/29/14

Prep Factor Units: mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15013		Soil	BN 8.28.14		10	0	0	10	1.000	8/28/2014	BN 8.28.14
LCS-15013		Soil			10	0	0	10	1.000	8/28/2014	
1408E15-001A	Profile	Soil			10 10.10	0	0	10	1.000	8/28/2014	
1408E15-001AMS		Soil			10 9.94	0	0	10	1.000	8/28/2014	
1408E15-001AMSD		Soil			10 ~~9.91~~ BW 8.28.14	0	10.01	0	10	1.000	8/28/2014
1408E34-001A	FFOR-CF-0052	MeOH (Soil)			10 9.80	0	0	10	1.000	8/28/2014	
1408E34-002A	FFOR-CF-0053	MeOH (Soil)			10 10.03	0	0	10	1.000	8/28/2014	
~~1408E81-001A~~	~~Conformation~~	~~Soil~~			~~10~~	~~0~~	~~0~~	~~10~~	~~1.000~~	~~8/28/2014~~	
~~1408E81-002A~~	~~background~~	~~Soil~~			~~10~~	~~0~~	~~0~~	~~10~~	~~1.000~~	~~8/28/2014~~	

~~not~~ extracted on this batch JR 8/28/14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand BN 8.28.14	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14010	5,000 PPM Diesel, 500 ppm DNOP	LCS	26361	Container-01 of 01	100	µL
ST8015-14011	1,000 DNOP	SAMP	26419	Container-01 of 01	100	µL

JR 8/28

Calibration Summary

Instrument: DANTE

Date: 08/27/14 + 08/28/14

Method: 8015 D

Calibration Name: 082814DRO MRO.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

DRO 8-pt. curve ran 08/27/14

MRO 3-pt. curve ran 08/28/14

Analyst: [signature]

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

Sequence Print

8/29/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
6	Unknown	0	1	MB-15031	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15031 <D>.dat	1
7	Unknown	0	1	LCS-15031	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15031 <D>.dat	1
8	Unknown	0	1	1408E34-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E34-001A <D>.dat	1
9	Unknown	0	1	1408E34-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E34-002A <D>.dat	1
10	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
11	Unknown	0	1	LCS-15031	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15031 <D>.dat	1
12	Unknown	0	1	1408F22-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F22-004A <D>.dat	1
13	Unknown	0	1	1408F22-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F22-006A <D>.dat	1
14	Unknown	0	1	1408F24-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F24-001A <D>.dat	1
15	Unknown	0	1	1408E34-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E34-002A <D>.dat	1
16	Unknown	0	1	1408F26-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F26-002A <D>.dat	1
17	Unknown	0	1	1408F26-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F26-002A <D>.dat	1
18	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1

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19	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
20	Unknown	0	1	MB-15014	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15014 <D>.dat	1
21	Unknown	0	1	LCS-15014	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15014 <D>.dat	1
22	Unknown	0	1	1408E63-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E63-001A <D>.dat	1
23	Unknown	0	1	1408E63-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E63-001A <D>.dat	1
24	Unknown	0	1	1408F11-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-001B <D>.dat	1
25	Unknown	0	1	1408F11-001BMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-001B MS <D>.dat	1
26	Unknown	0	1	1408F11-001BMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-001B MSD <D>.dat	1
27	Unknown	0	1	1408F11-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-002B <D>.dat	1
28	Unknown	0	1	1408F11-003B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-003B <D>.dat	1
29	Unknown	0	1	1408F11-004B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-004B <D>.dat	1
30	Unknown	0	1	1408F11-005B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-005B <D>.dat	1
31	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
32	Unknown	0	1	1408F11-006B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-006B <D>.dat	1
33	Unknown	0	1	1408F11-007B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-007B <D>.dat	1
34	Unknown	0	1	1408F11-008B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-008B <D>.dat	1
35	Unknown	0	1	1408F11-009B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-009B <D>.dat	1
36	Unknown	0	1	1408F11-010B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-010B <D>.dat	1
37	Unknown	0	1	1408F11-011B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-011B <D>.dat	1

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38	Unknown	0	1	1408F11-012B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-012B <D>.dat	1
39	Unknown	0	1	1408F11-013B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-013B <D>.dat	1
40	Unknown	0	1	1408F11-014B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F11-014B <D>.dat	1
41	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
42	Unknown	0	1	MB-15015	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15015 <D>.dat	1
43	Unknown	0	1	LCS-15015	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15015 <D>.dat	1
44	Unknown	0	1	1408E55-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-001B <D>.dat	1
45	Unknown	0	1	1408E55-001BMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-001B MS <D>.dat	1
46	Unknown	0	1	1408E55-001BMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-001B MSD <D>.dat	1
47	Unknown	0	1	1408E55-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-002B <D>.dat	1
48	Unknown	0	1	1408E55-003B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-003B <D>.dat	1
49	Unknown	0	1	1408E55-004B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-004B <D>.dat	1
50	Unknown	0	1	1408E55-005B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E55-005B <D>.dat	1
51	Unknown	0	1	1408E58-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E58-001B <D>.dat	1
52	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
53	Unknown	0	1	1408E58-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E58-002B <D>.dat	1
54	Unknown	0	1	1408E60-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E60-001B <D>.dat	1
55	Unknown	0	1	1408E60-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E60-002B <D>.dat	1
56	Unknown	0	1	1408E60-003B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408E60-003B <D>.dat	1

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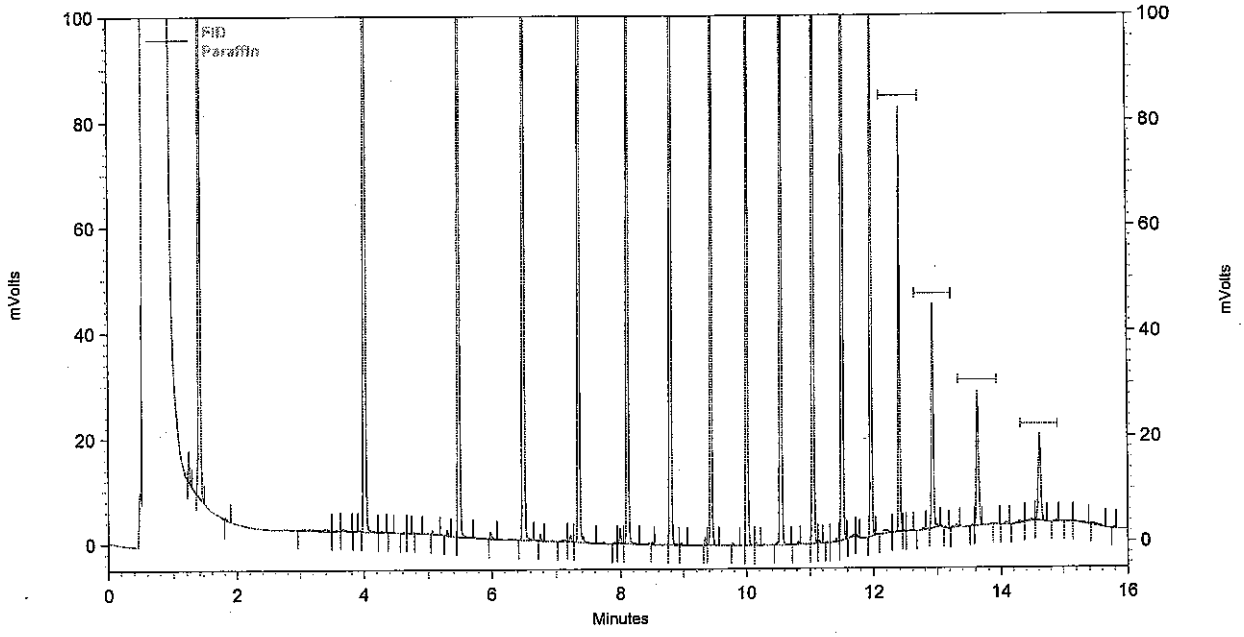
57	Unknown	0	1	1408F37-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F37-001C <D>.dat	1
58	Unknown	0	1	1408F37-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F37-002C <D>.dat	1
59	Unknown	0	1	1408F37-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F37-003C <D>.dat	1
60	Unknown	0	1	1408F37-004C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F37-004C <D>.dat	1
61	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

9-2-14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-29-14 7-25-57 AM.dat
Aquired: 8/29/2014 7:31:00 AM



FID Results

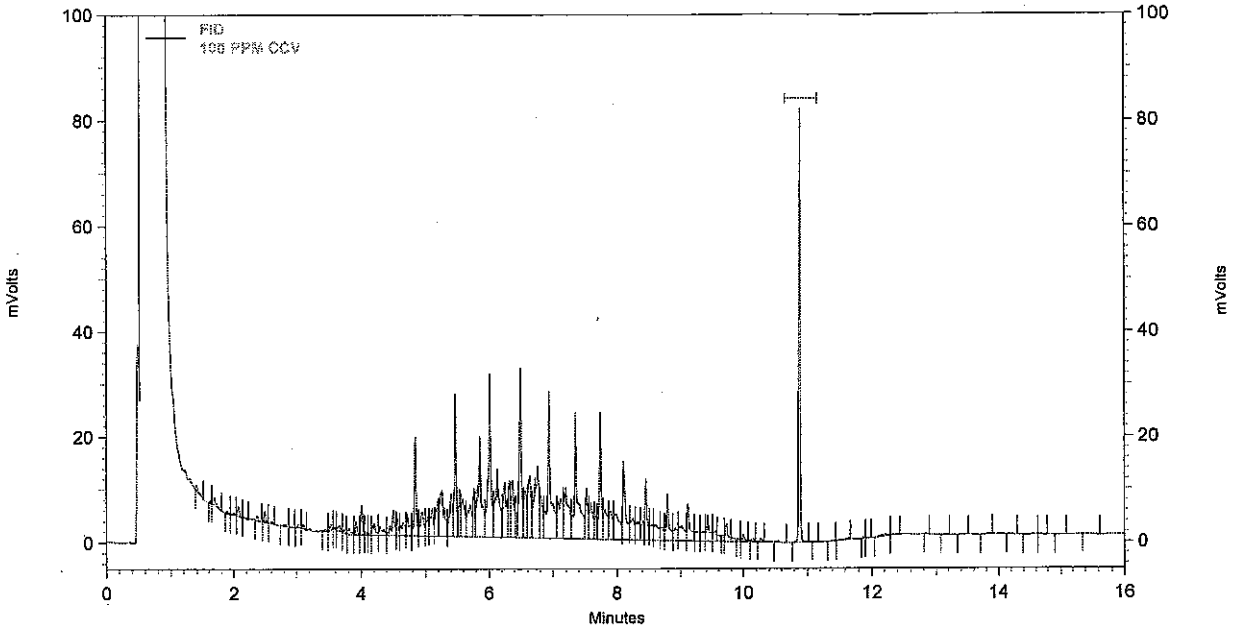
Name	Retention Time	Area	ug/ml
C8	1.397	428271	0.000
C10	4.005	525423	0.000
C12	5.472	504972	0.000
C14	6.491	480968	0.000
C16	7.344	460520	0.000
C18	8.101	435178	0.000
C20	8.789	421359	0.000
C22	9.419	401469	0.000
C24	10.000	385268	0.000
C26	10.539	388464	0.000
C28	11.040	368637	0.000
C30	11.515	308553	0.000
C32	11.952	211574	0.000
C34	12.389	124323	0.000
C36	12.923	81407	0.000
C38	13.632	58383	0.000
C40	14.608	49335	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-29-14 7-47-07 AM.dat
Aquired: 8/29/2014 7:52:22 AM



FID Results

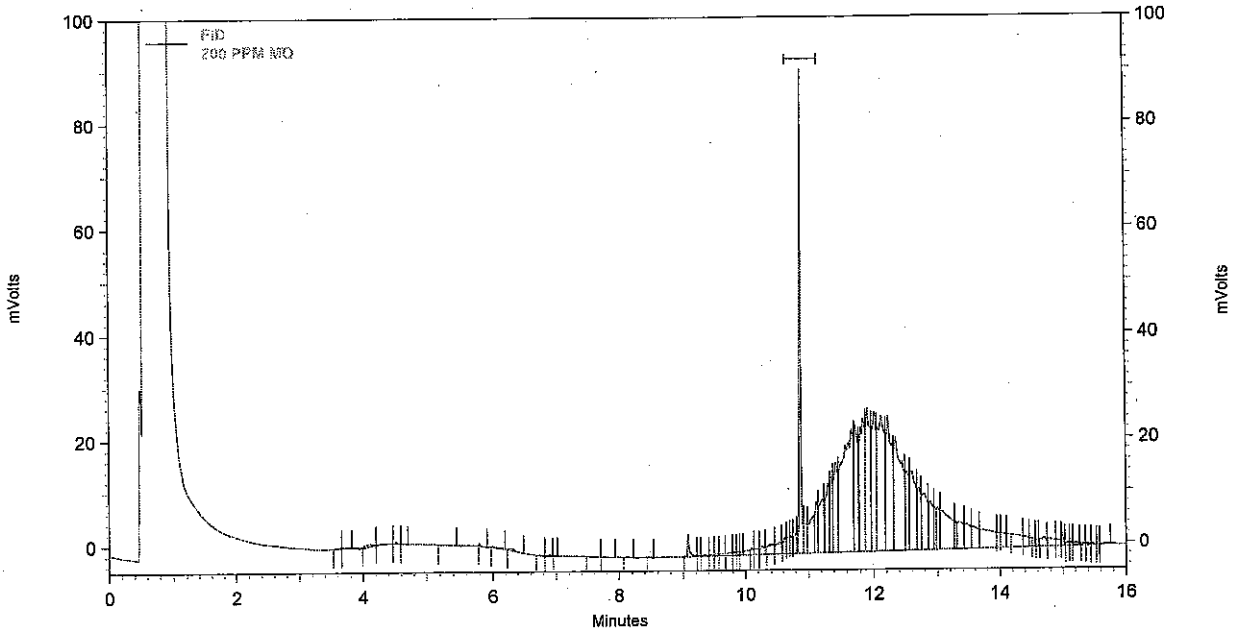
Name	Retention Time	Area	ug/ml
DNOP	10.869	115845	10.276
DRO		1642709	99.595
MRO		10373	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-29-14 8-08-29 AM.dat
Aquired: 8/29/2014 8:13:39 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	143869	12.734
DRO		81620	6.934
MRO		2215093	281.901

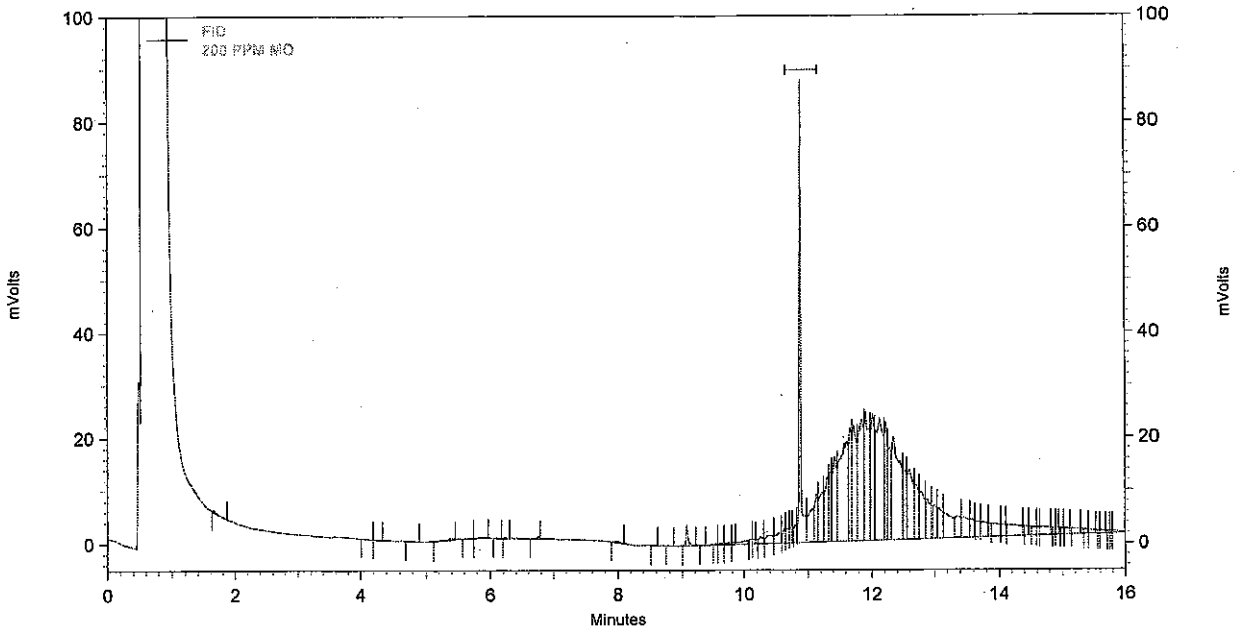
Analyst _____

Reviewed By _____

RR

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-29-14 8-35-41 AM.dat
Aquired: 8/29/2014 8:37:07 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	151733	13.423
DRO		58164	5.537
MRO		1682300	211.178

Analyst _____

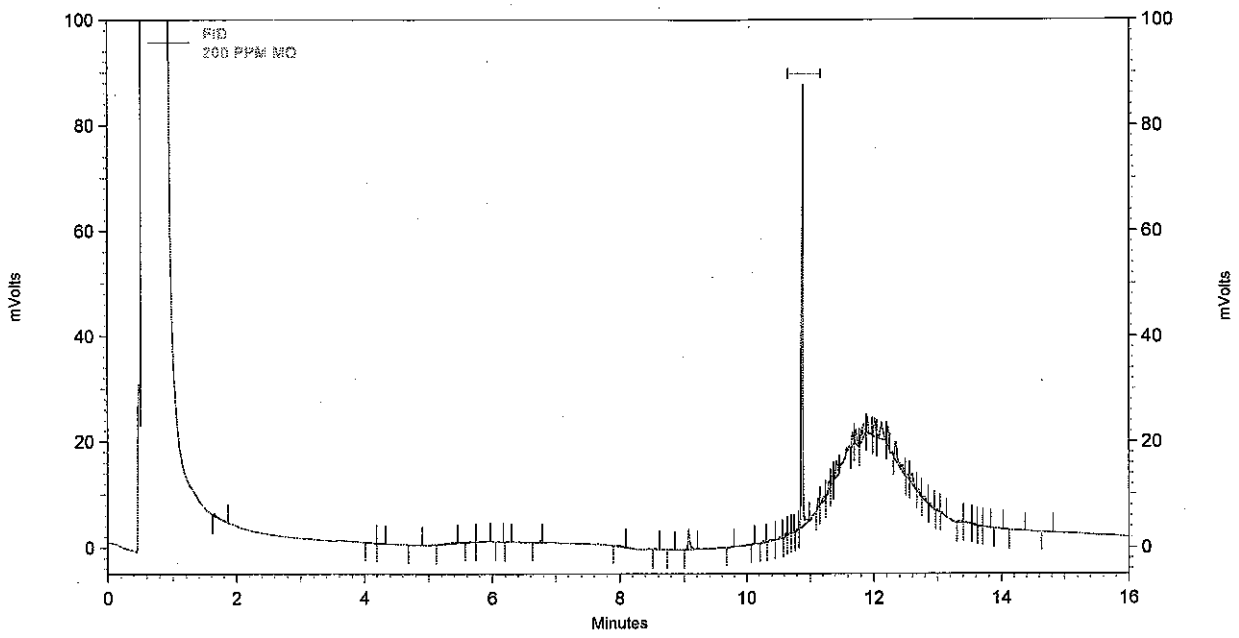
Reviewed By _____

13.423
− 10.415
3.008
+211.178
214.186 / 200 x100 = 107.093 %

✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-29-14 8-35-41 AM.dat
Aquired: 8/29/2014 8:37:07 AM



FID Results

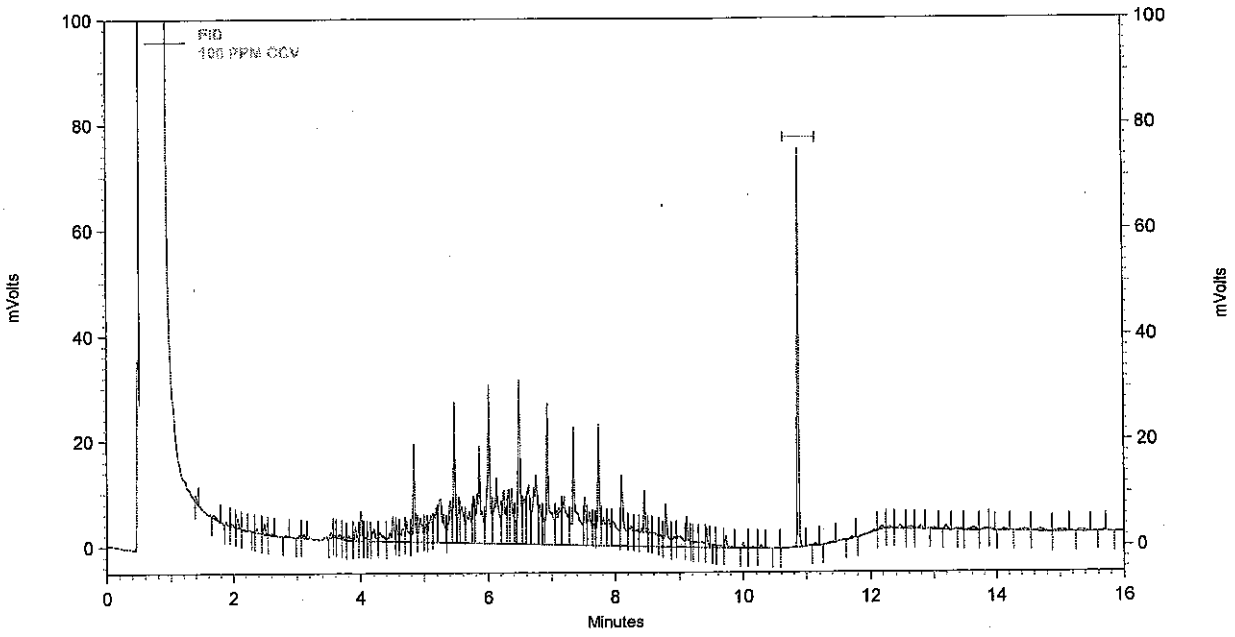
Name	Retention Time	Area	ug/ml
DNOP	10.869	117431	10.415
DRO		23928	3.497
MRO		96710	0.709

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-29-14 1-35-50 PM.dat
Aquired: 8/29/2014 1:39:03 PM



FID Results

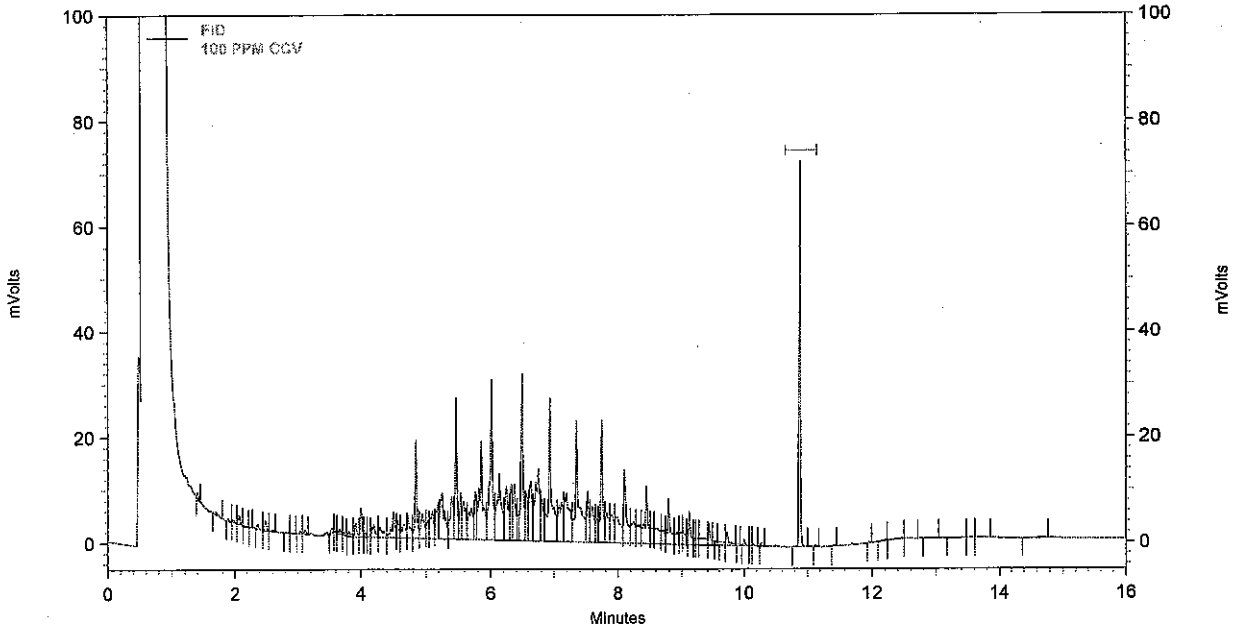
Name	Retention Time	Area	ug/ml
DNOP	10.869	107508	9.543
DRO		1543792	93.743
MRO		33647	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-29-14 5-50-26 PM.dat
Aquired: 8/29/2014 5:55:39 PM



FID Results

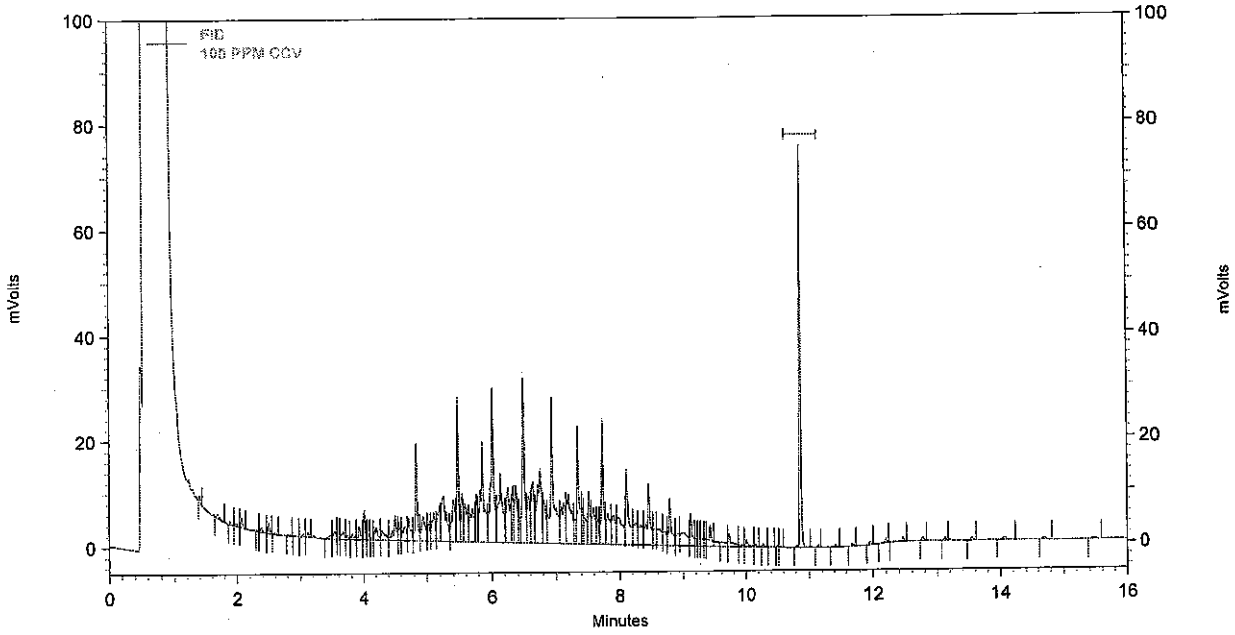
Name	Retention Time	Area	ug/ml
DNOP	10.869	105636	9.378
DRO		1637310	99.276
MRO		6431	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-29-14 9-23-29 PM.dat
Aquired: 8/29/2014 9:28:41 PM



FID Results

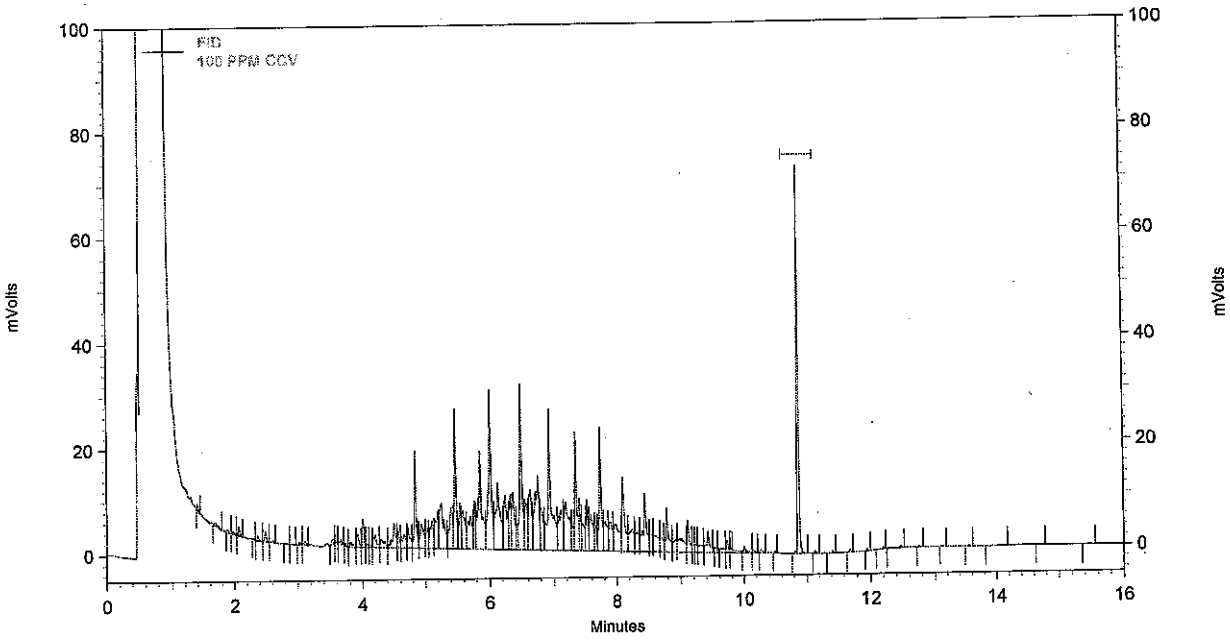
Name	Retention Time	Area	ug/ml
DNOP	10.875	106954	9.494
DRO		1631938	98.958
MRO		13167	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-30-14 1-18-10 AM.dat
Aquired: 8/30/2014 1:23:19 AM



FID Results

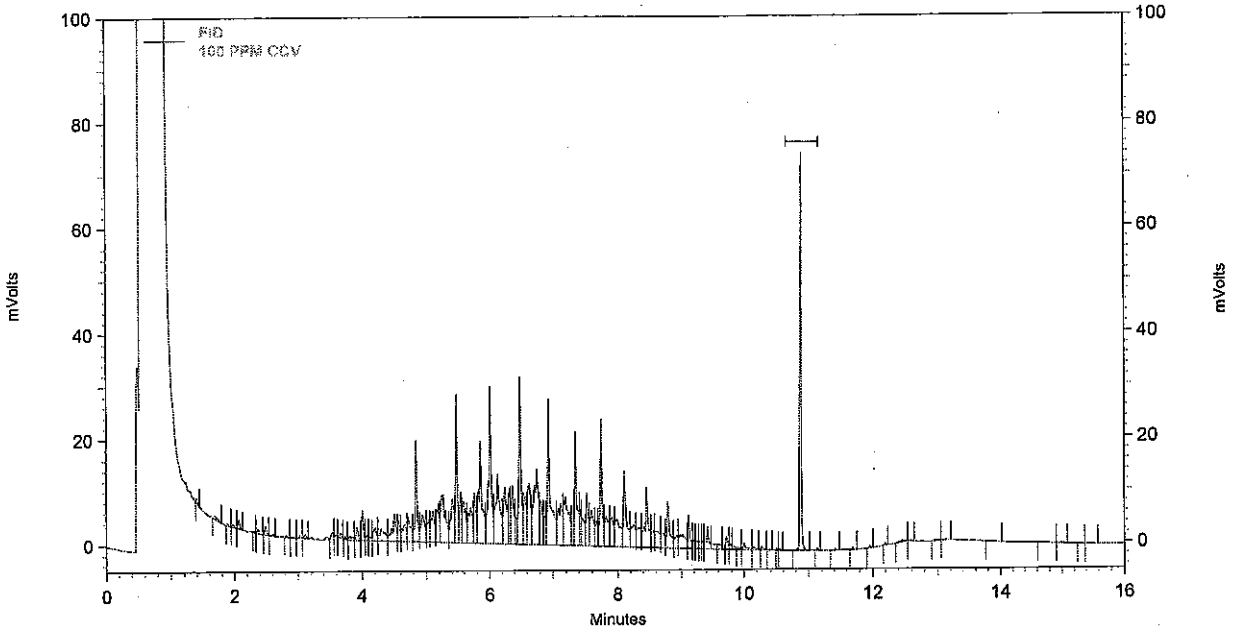
Name	Retention Time	Area	ug/ml
DNOP	10.869	106772	9.478
DRO		1630051	98.846
MRO		7023	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-30-14 4-30-28 AM.dat
Aquired: 8/30/2014 4:35:31 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	109090	9.682
DRO		1722042	104.287
MRO		7698	0.000

Analyst _____

Reviewed By _____

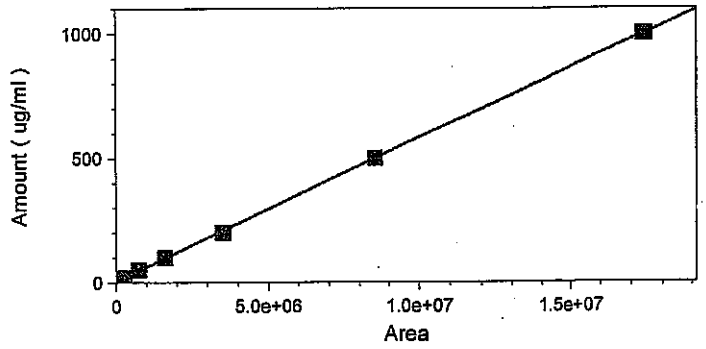
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.81114e-005 RF StDev: 1.13089e-005 RF %RSD: 16.6036
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.33282e-013x^2 + 5.95864e-005x + 2.07170
Goodness of fit (r^2): 0.999851

8/28/14

Group: DRO -- ESTD -- FID-AL1



8-28-14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49506	116786	262275	750680	1598005
RF	8.079828707 6314e-005	8.56267018306 989e-005	7.625583833762 27e-005	6.660627697554 22e-005	6.2578026977 3874e-005
Last Area Residual	-1.02126	0.971261	2.30944	3.27309	3.04928
Rep StDev					
Rep %RSD					
Rep 1 Area	49506	116786	262275	750680	1598005
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

Amount	200	300	500	1000
Area	3514780		8527481	17394529
RF	5.690256573 66891e-005		5.863396236239 05e-005	5.748934047021 34e-005
Last Area				
Residual	-9.85828	N/A	-0.501613	1.77808
Rep StDev				
Rep %RSD				
Rep 1 Area	3514780		8527481	17394529
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

Calibration Report

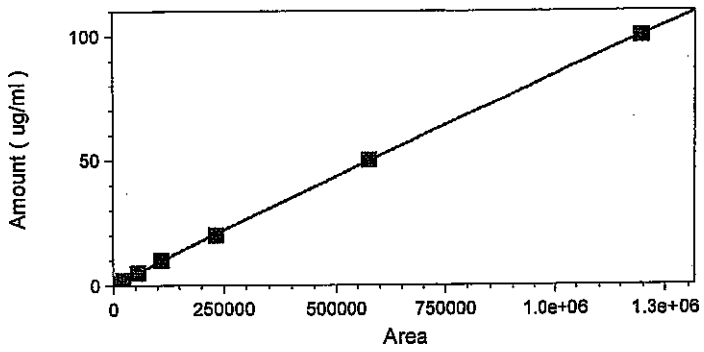
Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 8.78371e-005 RF StDev: 6.58129e-006 RF %RSD: 7.49260
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.39616e-012x^2 + 8.88806e-005x + 0.0382291
Goodness of fit (r^2): 0.999943

JE 8/28/14

TV 9.2.14

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5280	10206	22113	55344	108620
RF	7.575757575 75758e-005	9.79815794630 609e-005	9.044453488897 93e-005	9.034403006649 32e-005	9.2064076597 3117e-005
Last Area					
Residual	-0.107396	0.0551132	-0.00149656	0.0562272	0.359425
Rep StDev					
Rep %RSD					
Rep 1 Area	5280	10206	22113	55344	108620
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

Amount	20	30	50	100
Area	233394		576145	1195754
RF	8.569200579 27796e-005		8.678370896215 36e-005	8.362924146605 41e-005
Last Area				
Residual	-0.542961	N/A	0.212922	-0.0318333
Rep StDev				
Rep %RSD				
Rep 1 Area	233394		576145	1195754
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

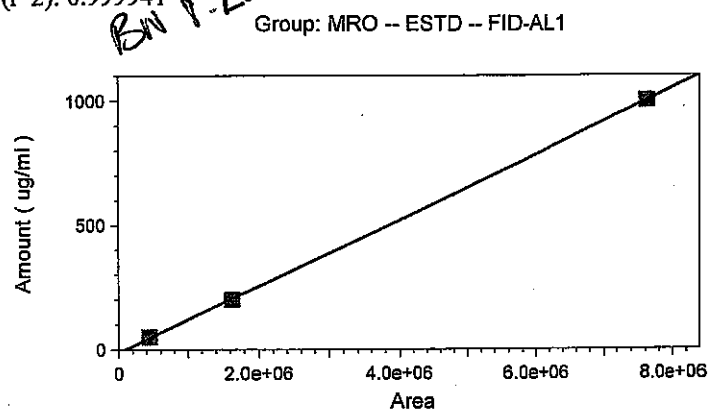
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000122404 RF StDev: 8.98680e-006 RF %RSD: 7.34194
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000132739x - 12.1282
Goodness of fit (r^2): 0.999941

BW 9.29.14

TX 9.24.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	441412	1630009	7619675
RF	0.000113272	0.00012269870	0.000131239193
	860728752	9025533	272679
Last Area			
Residual	3.53566	-4.23728	0.701621
Rep StDev			
Rep %RSD			
Rep 1 Area	441412	1630009	7619675
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\50ppm MO 08-28-14 9-24-07 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\200ppm MO 08-28-14 9-44-33 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO 08-28-14 10-06-17 AM.dat
Rep 1 Sample ID	50ppm MO	200ppm MO	1,000ppm MO

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

Rep 1 Calib. Time	8/28/2014 10:35:56 AM	8/28/2014 10:36:11 AM	8/28/2014 10:36:27 AM

JL 8/20/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

JL 8.28.14

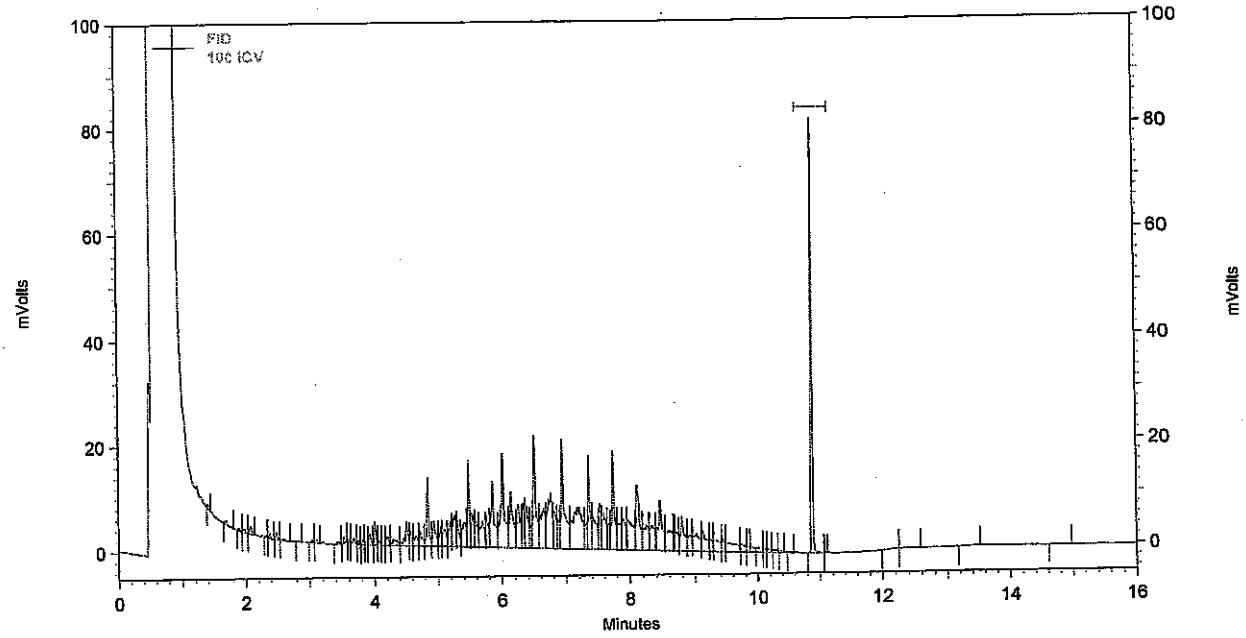
BN 8.28.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	50ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50ppm MO <D>.dat	1
4	Unknown	0	1	200ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO <D>.dat	1
5	Unknown	0	1	1,000ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO <D>.dat	1
6	Unknown	0	1	200ppm MO ICV	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO ICV <D>.dat	1

TV 8.28.14

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1557**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV 08-27-14 6-58-21 PM.dat
Aquired: 8/27/2014 7:03:37 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	116788	10.358
DRO		1468072	89.262

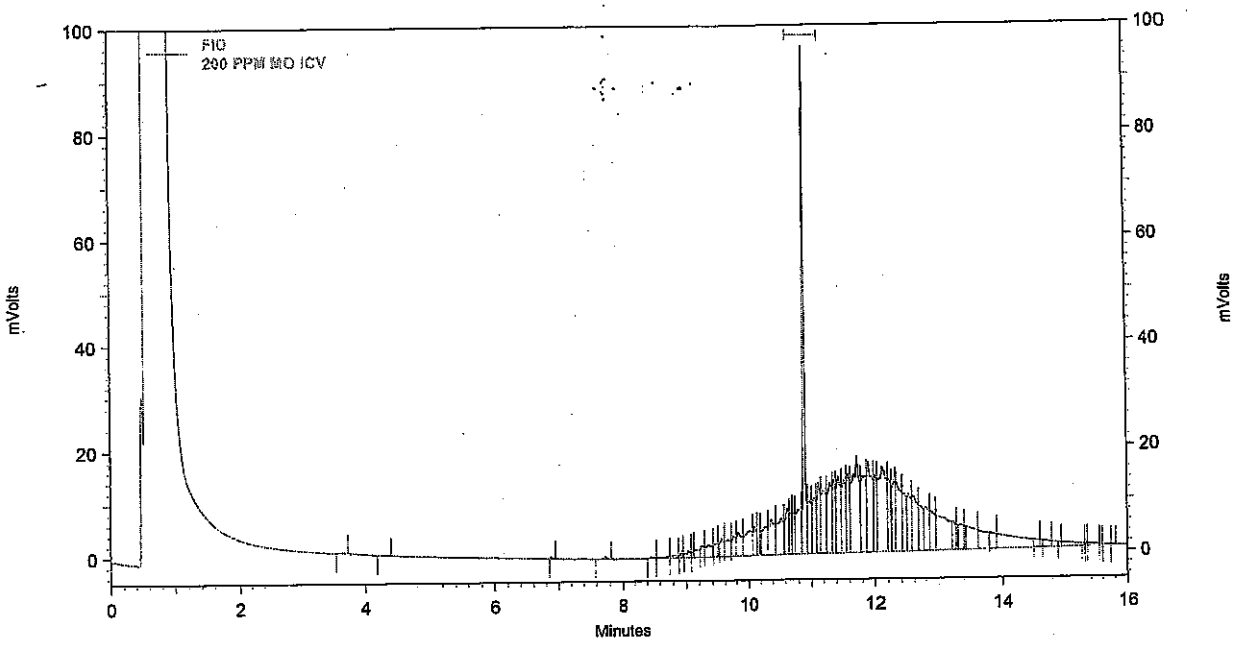
Analyst _____

Reviewed By _____

± 20%

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1569**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	163365	14.441
DRO		339420	22.281
MRO		1566946	195.866

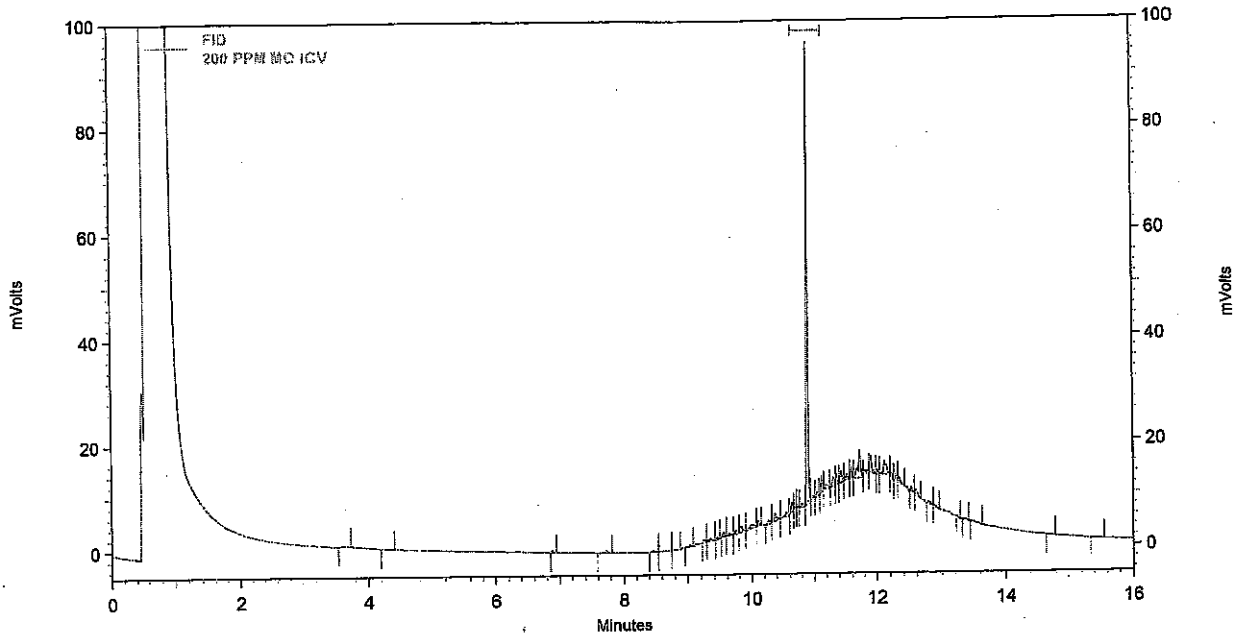
Analyst BN

Reviewed By JO

14.441
- 10.528
3.913
+195.866
199.779
200 x100
= 99.889% ✓

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1569**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	118723	10.528
DRO		32486	4.007
MRO		82554	0.000

Analyst _____

Reviewed By _____

WB 9/4/14

Analytical Report
Lab Order: **1408E34**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Lab ID: 1408E34-001
Client Sample ID: FFOR-CF-0052
Collection Date: 8/27/2014
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Toluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Ethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Methyl tert-butyl ether (MTBE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2,4-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,3,5-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2-Dichloroethane (EDC)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2-Dibromoethane (EDB)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Naphthalene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Acetone	ND	0.54		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Bromobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Bromodichloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Bromoform	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Bromomethane	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
2-Butanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Carbon disulfide	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Carbon tetrachloride	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Chlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Chloroethane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Chloroform	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Chloromethane	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
2-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
4-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
cis-1,2-DCE	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
cis-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2-Dibromo-3-chloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Dibromochloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Dibromomethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,3-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,4-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Dichlorodifluoromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1-Dichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1-Dichloroethene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2-Dichloropropane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,3-Dichloropropane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
2,2-Dichloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1-Dichloropropene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408E34
Project: Kirtland AFB

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

Hexachlorobutadiene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
2-Hexanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Isopropylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
4-Isopropyltoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
4-Methyl-2-pentanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Methylene chloride	0.012	0.11	J	mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
n-Butylbenzene	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
n-Propylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
sec-Butylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Styrene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
tert-Butylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1,1,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1,2,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Tetrachloroethene (PCE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
trans-1,2-DCE	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
trans-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2,3-Trichlorobenzene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2,4-Trichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1,1-Trichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,1,2-Trichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Trichloroethene (TCE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Trichlorofluoromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
1,2,3-Trichloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Vinyl chloride	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Xylenes, Total	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Bromochloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Vinyl acetate	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 1:36:05 PM
Surr: Dibromofluoromethane	92.9	70-130		%REC	1	R20965	9/3/2014 1:36:05 PM
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	R20965	9/3/2014 1:36:05 PM
Surr: Toluene-d8	95.1	70-130		%REC	1	R20965	9/3/2014 1:36:05 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%REC	1	R20965	9/3/2014 1:36:05 PM

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	0.54	3.6	J	mg/Kg-dry	1	R20958	9/3/2014 2:11:05 AM
Surr: BFB	104	61.2-137		%REC	1	R20958	9/3/2014 2:11:05 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1408E34**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Lab ID: 1408E34-002
Client Sample ID: FFOR-CF-0053
Collection Date: 8/27/2014
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	0.044	0.37	J	mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Toluene	1.0	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Ethylbenzene	4.2	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Methyl tert-butyl ether (MTBE)	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2,4-Trimethylbenzene	30	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,3,5-Trimethylbenzene	12	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2-Dichloroethane (EDC)	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2-Dibromoethane (EDB)	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Naphthalene	6.9	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Acetone	0.89	5.5	EJ	mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Bromobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Bromodichloromethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Bromoform	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Bromomethane	ND	1.1		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
2-Butanone	0.93	3.7	J	mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Carbon disulfide	ND	3.7		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Carbon tetrachloride	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Chlorobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Chloroethane	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Chloroform	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Chloromethane	ND	1.1		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
2-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
4-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
cis-1,2-DCE	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
cis-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2-Dibromo-3-chloropropane	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Dibromochloromethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Dibromomethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,3-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,4-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Dichlorodifluoromethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1-Dichloroethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1-Dichloroethene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2-Dichloropropane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,3-Dichloropropane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
2,2-Dichloropropane	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1-Dichloropropene	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Hexachlorobutadiene	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	3.7		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Isopropylbenzene	2.6	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
4-Isopropyltoluene	3.3	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
4-Methyl-2-pentanone	ND	3.7		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Methylene chloride	ND	1.1		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
n-Butylbenzene	9.7	1.1		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
n-Propylbenzene	6.9	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
sec-Butylbenzene	4.3	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Styrene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
tert-Butylbenzene	0.20	0.37	J	mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1,1,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1,2,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Tetrachloroethene (PCE)	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
trans-1,2-DCE	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
trans-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2,3-Trichlorobenzene	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2,4-Trichlorobenzene	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1,1-Trichloroethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,1,2-Trichloroethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Trichloroethene (TCE)	0.060	0.37	J	mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Trichlorofluoromethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
1,2,3-Trichloropropane	ND	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Vinyl chloride	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Xylenes, Total	27	0.74		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Bromochloromethane	ND	0.37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Vinyl acetate	ND	3.7		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Surr: Dibromofluoromethane	95.9	70-130		%REC	10	R20912	8/30/2014 3:28:45 AM
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	10	R20912	8/30/2014 3:28:45 AM
Surr: Toluene-d8	92.2	70-130		%REC	10	R20912	8/30/2014 3:28:45 AM
Surr: 4-Bromofluorobenzene	193	70-130	S	%REC	10	R20912	8/30/2014 3:28:45 AM

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	2200	37		mg/Kg-dry	10	R20912	8/30/2014 3:28:45 AM
Surr: BFB	149	61.2-137	S	%REC	10	R20912	8/30/2014 3:28:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	0.50	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Isopropylbenzene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
4-Isopropyltoluene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
4-Methyl-2-pentanone	ND	0.50	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Methylene chloride	ND	0.15	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
n-Butylbenzene	ND	0.15	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
n-Propylbenzene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
sec-Butylbenzene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Styrene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
tert-Butylbenzene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Tetrachloroethene (PCE)	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
trans-1,2-DCE	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
trans-1,3-Dichloropropene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,1,1-Trichloroethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,1,2-Trichloroethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Trichloroethene (TCE)	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Trichlorofluoromethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
1,2,3-Trichloropropane	ND	0.10	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Vinyl chloride	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Xylenes, Total	ND	0.10	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Bromochloromethane	ND	0.050	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Vinyl acetate	ND	0.50	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Surr: Dibromofluoromethane	82.1	70-130	%REC	1	R20912	8/29/2014 10:49:11 PM
Surr: 1,2-Dichloroethane-d4	80.4	70-130	%REC	1	R20912	8/29/2014 10:49:11 PM
Surr: Toluene-d8	92.7	70-130	%REC	1	R20912	8/29/2014 10:49:11 PM
Surr: 4-Bromofluorobenzene	82.1	70-130	%REC	1	R20912	8/29/2014 10:49:11 PM

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	R20912	8/29/2014 10:49:11 PM
Surr: BFB	106	61.2-137	%REC	1	R20912	8/29/2014 10:49:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not greater than 2
- RL Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Fri Aug 29 16:51:18 2014

ampleList: C:\VarianWS\082914v.smp

reated: Fri Aug 29 08:14:50 2014
odified: Fri Aug 29 16:50:11 2014

****

Line	Sample Name	Injection Notes
1	tt	below
	Notes all injections contain v-52-0520	
2	5ml rb	none tune @ 1:06
3		
4	rtm	below
	Notes v-18-2064	
5	50ng ccv	below chloroform
	Notes v-54-0470	
6	100ng lcs	below
	Notes v-11-8067	
7		
8	50ng ccv2	below chloroform
	Notes V-54-0470	
9	100ng lcs2	below
	Notes V-11-8068	
10		
11	vcb	none
12	50ng ccv3	below @ 12:23
	Notes V-54-0470	
13	100ng lcs3	below
	Notes v-11-8068	
14	vcb	none tune @ 1:19
15	1408d26-003a	below
	Notes x200 0.25mL AIR	
16	1408d26-003adup	below
	Notes x200 0.25mL AIR	
17	1408d26-003adup2	below
	Notes x200 0.25mL AIR	
18	1408d26-003adup3	below
	Notes x200 0.25mL AIR	
19	1408d26-004a	below
	Notes ~~x200 0.25mL AIR~~ x250 0.2mL	
20	1408d26-005a	below
	Notes ~~x200 0.25mL AIR~~ x250 0.2mL	
21	1408c64-001a	below
	Notes r10-10uL MeOH QCw/PB14886 SL_S	
22	1408d28-006a	below
	Notes x10-10uL SoilTCLP PB14886	
23	1408d28-007a	below
	Notes x10-10uL SoilTCLP PB14886	
24	lcs-14993	below
	Notes V-11-8068	
25	mb-14993	below
	Notes 4681 SoilTCLP	
26	1408d46-001a	below
	Notes x10-10uL SoilTCLP PB14993	
27	1408d46-001ams	below
	Notes x10 V-11-8068 SoilTCLP PB14993	
28	1408d46-001amsd	below
	Notes x10 V-11-8068 SoilTCLP PB14993	
29	1408d56-001a	below
	Notes x10-10uL SoilTCLP PB14993	
30	rtm	below
	Notes V-18-2064	
31	2.5ug gro ccv	below
	Notes V-18-2074	
32	2.5ug gro lcs	below
	Notes V-18-2067	
33	vcb2	none
34	1408e34-003a	below
	Notes x1-100uL MeOH Blk 8260,GRO	
35	1408e34-001a	below
	Notes x5-20uL MeOH 8260,GRO r1	
36	1408e34-001a ms	below
	Notes x5 V-11-8068 MeOH r1	
37	1408e34-001a msd	below r1

N-all

DF 8/29/2014

A.r loaded by DJF
Loaded By: DA 8.29.14
1st Review By: DA 9.1.14
QA'd By: WB 9/3/14

```
38     1408e34-001a ms g      below
             Notes  x5 V-18-2067 MeOH
39   1408e34-001a msd g       below
             Notes  x5 V-18-2067 MeOH
40                  tt        none
41                  b1        none
42            100ng ccv       below
              Notes  V-54-0470
43                 vcb3       none
44         1408e34-002a        below
             Notes  x10-10uL MeOH 8260,GRO
45                  b2        none
46           lcs-14994         below
              Notes  V-11-8068 V_O
47         lcsd-14994          below
              Notes  V-11-8068 V_O
48           mb-14994          below
              Notes  4681 V_O
49         1408d54-001a        below
             Notes  x100-1uL V_O PB14994
50         1408d61-001a        below
             Notes  x100-1uL V_O PB14994
51         1408d64-001a        below
             Notes  x100-1uL V_O PB14994
52         1408d70-001a        below
             Notes  x100-1uL V_O PB14994
53                  b3        none
54           lcs-15021         below
              Notes  V-11-8068 TCLP
55           mb-15021          below
              Notes  TCLP Fluid #1-1434
56         1408e37-001a        below
              Notes  x1-TCLP PB15021
57       1408e37-001ams        below
             Notes  V-11-8068 TCLP PB15021
58     1408e37-001amsd         below
             Notes  V-11-8068 TCLP PB15021
59                  tt        none
60
```

Loaded By:
1st Review By:
QA'd By:

```
Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\082914v.rcl.
```

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082914v\50ng ccv3 8-29-2014.SMS Lab Sample ID: 50ng ccv3

Instrument ID: VAL Date Analyzed: 8/29/2014 Time Analyzed: 12:23

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	28066	8.00	42195	14.30	23346	17.91						
UPPER LIMIT	56132	8.50	84390	14.80	46692	18.41						
LOWER LIMIT	14033	7.50	21098	13.80	11673	17.41						
EPA SAMPLE NO												
tt 8-29-20	29495	7.99	42795	14.31	24391	17.91						
5ml rb 8-2	27617	8.00	40463	14.31	23479	17.91						
rtm 8-29-2	28750	7.99	43737	14.31	24737	17.91						
50ng ccv 8	28916	7.99	44875	14.30	25014	17.91						
100ng lcs	28868	8.00	42207	14.31	23869	17.91						
50ng ccv2	27153	7.99	41161	14.31	23930	17.91						
100ng lcs2	27917	7.99	41635	14.30	23157	17.91						
vcb 8-29-2	26988	8.00	39194	14.31	22768	17.91						
100ng lcs3	27128	8.00	40045	14.30	22453	17.91						
vcb 8-29-2	27217	8.00	40906	14.31	23194	17.91						
1408d26-00	28683	8.00	41797	14.31	23424	17.91						
1408d26-00	30522	8.00	44477	14.31	24094	17.92						
1408d26-00	29180	8.01	40986	14.31	23378	17.92						
1408d26-00	28968	8.01	43664	14.31	23472	17.92						
1408d26-00	26532	8.00	41407	14.31	22966	17.91						
1408d26-00	26519	8.00	39765	14.31	22503	17.92						

9/1/14 9:07

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408c64-00	27345	8.00	40808	14.31	23418	17.92						
1408d28-00	29195	8.00	42231	14.31	23509	17.92						
1408d28-00	27804	8.00	42606	14.31	24046	17.92						
lcs-14993	32060	8.00	40291	14.32	26304	17.92						
mb-14993 8	29440	8.00	38379	14.31	26771	17.92						
1408d46-00	31705	8.00	42981	14.31	25502	17.92						
1408d46-00	29381	8.01	44294	14.31	24789	17.92						
1408d46-00	27240	8.00	40078	14.32	22467	17.92						
1408d56-00	29492	8.00	42188	14.31	24990	17.92						
rtm 8-29-2	27798	8.00	41148	14.31	23619	17.92						
2.5ug gro	27585	8.00	40956	14.31	23203	17.92						
2.5ug gro	27650	8.00	40254	14.31	22818	17.92						
vcb2 8-29-	26845	8.00	39863	14.31	23098	17.91						
1408e34-00	29722	8.00	38849	14.31	25515	17.91						
1408e34-00	29915	8.00	41542	14.31	23301	17.91						
1408e34-00	29138	8.00	40185	14.31	23162	17.91						
1408e34-00	28994	8.00	42185	14.31	23240	17.91						
1408e34-00	30811	8.00	44368	14.31	23481	17.92						
1408e34-00	30236	7.99	43602	14.31	24065	17.91						
tt 8-30-20	27713	8.00	40201	14.31	23188	17.91						
b1 8-30-20	26417	8.00	39393	14.31	22387	17.92						
100ng ccv	27127	8.00	40279	14.31	22638	17.91						
vcb3 8-30-	26431	8.00	37885	14.31	22173	17.91						
1408e34-00	26070	8.00	43461	14.31	19829 D	17.91 D						
b2 8-30-20	27337	8.00	39983	14.31	22457	17.92						
lcs-14994	29439	8.00	38920	14.32	26421	17.92						
lcsd-14994	31399	8.00	43295	14.31	28541	17.91						
mb-14994 8	30860	7.99	43122	14.31	26971	17.91						
1408d54-00	27650	7.99	40068	14.31	23450	17.91						
1408d61-00	28645	8.00	42512	14.31	24405	17.91						
1408d64-00	27272	8.00	41123	14.31	22210	17.91						
1408d70-00	26912	7.99	40340	14.31	22301	17.91						
b3 8-30-20	25189	7.99	37763	14.30	21483	17.91						
lcs-15021	25599	8.00	39762	14.31	22614	17.91						

MR 9.1.14

VNB 9/3/14

9/1/2014 9:07

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
mb-15021 8	25764	7.99	39529	14.30	21779	17.91						
1408e37-00	26905	8.00	39968	14.31	22040	17.91						
1408e37-00	26995	8.00	41985	14.30	23092	17.91						
1408e37-00	25038	8.00	39799	14.31	21740	17.91						
tt 8-30-20	25619	7.99	38981	14.31	21164	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

PF-9-1-14

WB 9/3/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/29/2014 Time: 12:23

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv3 8-29-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.476	0.100	50.00	54.29	-8.6	30.0	PASS	PASS
Chloromethane	0.279	0.100	50.00	30.69	38.6	30.0	FAIL	PASS
Vinyl chloride	1.147	0.100	50.00	43.25	13.5	20.0	PASS	PASS
Chloroethane	0.159	0.100	50.00	37.06	25.9	30.0	PASS	PASS
Bromomethane	0.748	0.100	50.00	44.76	10.5	30.0	PASS	PASS
Trichlorofluoromethane	0.919	0.100	50.00	55.14	-10.3	30.0	PASS	PASS
1,1-Dichloroethene	1.252	0.100	50.00	52.69	-5.4	20.0	PASS	PASS
Acetone	0.379	0.100	100.00	76.24	23.8	40.0	PASS	PASS
Carbon disulfide	1.118	0.100	100.00	118.61	-18.6	40.0	PASS	PASS
Iodomethane	0.099	0.100	100.00	37.54	62.5	40.0	FAIL	FAIL
Methyl tert-butyl ether (MTBE)	1.290	0.100	100.00	102.55	-2.5	30.0	PASS	PASS
Isopropyl ether	1.498	0.100	100.00	112.14	-12.1	40.0	PASS	PASS
tert-Butyl alcohol	0.226	0.100	1000.00	855.46	14.5	40.0	PASS	PASS
trans-1,2-DCE	1.489	0.100	50.00	54.17	-8.3	30.0	PASS	PASS
tert-Butyl ethyl ether	2.977	0.100	100.00	113.30	-13.3	40.0	PASS	PASS
1,1-Dichloroethane	1.344	0.100	50.00	47.49	5.0	30.0	PASS	PASS
Methylene Chloride	1.345	0.100	50.00	46.38	7.2	30.0	PASS	PASS
Vinyl Acetate	1.822	0.100	100.00	103.74	-3.7	40.0	PASS	PASS
2,2-Dichloropropane	0.922	0.100	50.00	57.25	-14.5	30.0	PASS	PASS
2-Butanone	0.439	0.100	100.00	87.96	12.0	40.0	PASS	PASS
1,1,1-Trichloroethane	1.545	0.100	50.00	52.24	-4.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.353	0.100	100.00	98.51	1.5	40.0	PASS	PASS
1,1-Dichloropropene	0.717	0.100	50.00	53.78	-7.6	30.0	PASS	PASS
Carbon Tetrachloride	3.234	0.100	50.00	52.46	-4.9	30.0	PASS	PASS
cis-1,2-DCE	2.005	0.100	50.00	52.29	-4.6	30.0	PASS	PASS
Benzene	1.949	0.100	50.00	53.95	-7.9	30.0	PASS	PASS
Chloroform	1.438	0.100	50.00	58.37	-16.7	20.0	PASS	PASS
Bromochloromethane	0.529	0.100	50.00	60.73	-21.5	30.0	PASS	PASS
Trichloroethene (TCE)	1.374	0.100	50.00	56.96	-13.9	30.0	PASS	PASS
Dibromofluoromethane	1.633	0.100	50.00	47.38	5.2	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.467	0.100	50.00	48.82	2.4	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.735	0.100	50.00	53.32	-6.6	30.0	PASS	PASS
1,2-Dichloropropane	1.934	0.100	50.00	53.40	-6.8	20.0	PASS	PASS
4-Methyl-2-pentanone	1.947	0.100	100.00	104.87	-4.9	40.0	PASS	PASS
Toluene-d8	1.781	0.100	50.00	45.58	8.8	30.0	PASS	PASS

NMC

NR

9-3-14

8/29/2014

8/29/2014 13:18

50ng ccv3 8-29-2014.sms

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.776	0.100	50.00	52.56	-5.1	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.840	0.100	100.00	84.17	15.8	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.328	0.100	50.00	52.55	-5.1	30.0	PASS	PASS
cis-1,3-dichloropropene	2.024	0.100	50.00	48.90	2.2	30.0	PASS	PASS
2-Hexanone	0.958	0.100	100.00	105.74	-5.7	40.0	PASS	PASS
Bromodichloromethane	2.577	0.100	50.00	51.49	-3.0	30.0	PASS	PASS
Dibromomethane	1.114	0.100	50.00	47.91	4.2	30.0	PASS	PASS
1,3-Dichloropropane	1.425	0.100	50.00	48.76	2.5	30.0	PASS	PASS
trans-1,3-dichloropropene	0.778	0.100	50.00	49.91	0.2	30.0	PASS	PASS
Ethylbenzene	3.041	0.100	50.00	51.77	-3.5	20.0	PASS	PASS
mp-Xylenes	2.780	0.100	100.00	103.26	-3.3	30.0	PASS	PASS
1,1,2-Trichloroethane	1.647	0.100	50.00	47.50	5.0	30.0	PASS	PASS
Chlorobenzene	1.273	0.300	50.00	49.18	1.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.406	0.100	50.00	49.73	0.5	30.0	PASS	PASS
o-Xylene	2.746	0.100	50.00	51.58	-3.2	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.258	0.100	50.00	49.20	1.6	30.0	PASS	PASS
Dibromochloromethane	1.262	0.100	50.00	48.61	2.8	30.0	PASS	PASS
Isopropylbenzene	2.560	0.100	50.00	49.13	1.7	30.0	PASS	PASS
Styrene	1.244	0.100	50.00	49.29	1.4	30.0	PASS	PASS
n-Propylbenzene	6.270	0.100	50.00	51.16	-2.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.466	0.100	50.00	50.27	-0.5	30.0	PASS	PASS
tert-Butylbenzene	4.853	0.100	50.00	49.45	1.1	30.0	PASS	PASS
2-Chlorotoluene	1.492	0.100	50.00	47.67	4.7	30.0	PASS	PASS
4-Bromofluorobenzene	1.752	0.100	50.00	43.00	14.0	30.0	PASS	PASS
sec-Butylbenzene	2.982	0.100	50.00	43.87	12.3	30.0	PASS	PASS
4-Chlorotoluene	1.471	0.100	50.00	45.41	9.2	30.0	PASS	PASS
Bromobenzene	1.377	0.100	50.00	50.77	-1.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.665	0.100	50.00	49.77	0.5	30.0	PASS	PASS
4-Isopropyltoluene	4.756	0.100	50.00	48.67	2.7	30.0	PASS	PASS
Bromoform	1.561	0.100	50.00	45.63	8.7	30.0	PASS	PASS
1,2,3-Trichloropropane	1.202	0.100	50.00	44.54	10.9	30.0	PASS	PASS
n-Butylbenzene	4.706	0.100	50.00	51.51	-3.0	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.921	0.300	50.00	52.66	-5.3	30.0	PASS	PASS
1,3-Dichlorobenzene	2.060	0.100	50.00	49.25	1.5	30.0	PASS	PASS
1,4-Dichlorobenzene	2.031	0.100	50.00	50.21	-0.4	30.0	PASS	PASS
1,2-Dichlorobenzene	1.989	0.100	50.00	48.98	2.0	30.0	PASS	PASS
Hexachlorobutadiene	4.637	0.100	50.00	47.73	4.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.789	0.100	50.00	50.71	-1.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.596	0.100	50.00	50.76	-1.5	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.654	0.100	50.00	52.04	-4.1	30.0	PASS	PASS
Naphthalene	2.818	0.100	50.00	46.06	7.9	30.0	PASS	PASS
2-Methylnaphthalene	2.297	0.100	50.00	51.12	-2.2	40.0	PASS	PASS
1-Methylnaphthalene	2.173	0.100	50.00	49.92	0.2	40.0	PASS	PASS

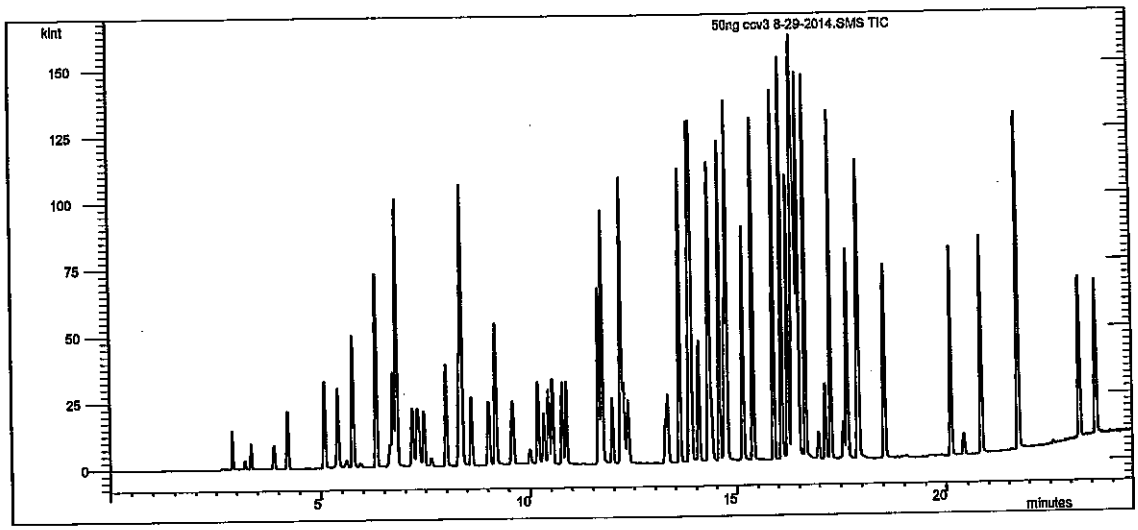
✓ NB 9/3/14

RA 9-3-14

Analyst: RAA

8260B/624 Report

Sample Name:	50ng ccv3	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0470	**Acquisition Date:**	8/29/2014 12:23:20 PM
Calculation Date:	8/29/2014 12:47:50 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.997	636	Identified	28066	50.000
Benzene-d5-, chloro-	14.304	1194	Identified	42195	50.000
1,4-Dichlorobenzene-d4	17.909	1513	Identified	23346	50.000
Dichlorodifluoromethane	2.906	184	Identified	41433	54.289
Chloromethane	3.205	211	Identified	7819	30.687
Vinyl chloride	3.354	224	Identified	32203	43.247
Chloroethane	3.890	272	Identified	4462	37.060
Bromomethane	3.905	273	Identified	20979	44.756
Trichlorofluoromethane	4.228	302	Identified	25793	55.139
1,1-Dichloroethene	5.090	378	Identified	35131	52.692
Acetone	5.367	403	Identified	21256	76.243
Carbon disulfide	5.402	406	Identified	62775	118.610
Iodomethane	5.602	424	Identified	5574	37.537
Methyl tert-butyl ether (MTBE)	5.753	437	Identified	72398	102.545
Isopropyl ether	6.314	487	Identified	84113	112.143
tert-Butyl alcohol	6.644	516	Identified	126926	855.459
trans-1,2-DCE	6.714	522	Identified	41799	54.171
tert-Butyl ethyl ether	6.802	530	Identified	167121	113.299
1,1-Dichloroethane	7.175	563	Identified	37720	47.485
Methylene Chloride	7.300	574	Identified	37744	46.375
Vinyl Acetate	7.347	578	Identified	102269	103.736
2,2-Dichloropropane	7.455	588	Identified	25871	57.253
2-Butanone	7.637	604	Identified	24626	87.956
1,1,1-Trichloroethane	8.314	664	Identified	43373	52.237

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.370	669	Identified	75957	98.507
1,1-Dichloropropene	8.386	670	Identified	20122	53.777
Carbon Tetrachloride	8.614	691	Identified	90763	52.464
cis-1,2-DCE	9.030	727	Identified	56279	52.291
Benzene	9.195	742	Identified	54710	53.951
Chloroform	9.589	777	Identified	40359	58.366
Bromochloromethane	9.999	813	Identified	14857	60.733
Trichloroethene (TCE)	10.192	830	Identified	38569	56.964
Dibromofluoromethane	10.331	843	Identified	45819	47.383
1,2-Dichloroethane-d4	10.444	853	Identified	125368	48.819
1,2-Dichloroethane (EDC)	10.538	862	Identified	48687	53.319
1,2-Dichloropropane	10.767	882	Identified	54271	53.402
4-Methyl-2-pentanone	10.866	891	Identified	109284	104.873
Toluene-d8	11.632	958	Identified	75154	45.584
Toluene	11.712	965	Identified	117120	52.558
2-Chloroethyl vinyl ether	11.964	987	Identified	70914	84.167
Tetrachloroethene (PCE)	12.179	1006	Identified	56026	52.549
cis-1,3-dichloropropene	12.172	1006	Identified	85391	48.899
2-Hexanone	12.183	1007	Identified	80875	105.738
Bromodichloromethane	12.243	1012	Identified	108757	51.490
Dibromomethane	12.344	1021	Identified	46998	47.913
1,3-Dichloropropane	13.250	1101	Identified	60121	48.759
trans-1,3-dichloropropene	13.310	1106	Identified	32834	49.914
Ethylbenzene	13.606	1133	Identified	128318	51.774
mp-Xylenes	13.858	1155	Identified	234575	103.260
1,1,2-Trichloroethane	14.063	1173	Identified	69501	47.500
Chlorobenzene	14.326	1196	Identified	53728	49.184
1,2-Dibromoethane (EDB)	14.382	1201	Identified	59325	49.725
o-Xylene	14.577	1218	Identified	115847	51.578
1,1,1,2-Tetrachloroethane	14.704	1229	Identified	95282	49.197
Dibromochloromethane	14.736	1232	Identified	53247	48.607
Isopropylbenzene	14.767	1234	Identified	108012	49.128
Styrene	15.162	1269	Identified	52494	49.286
n-Propylbenzene	15.403	1291	Identified	146368	51.165
1,3,5-Trimethylbenzene	15.895	1334	Identified	104262	50.267
tert-Butylbenzene	16.090	1351	Identified	113290	49.453
2-Chlorotoluene	16.238	1364	Identified	34824	47.673
4-Bromofluorobenzene	16.335	1373	Identified	40909	42.996
sec-Butylbenzene	16.366	1376	Identified	69613	43.871
4-Chlorotoluene	16.402	1379	Identified	34342	45.410
Bromobenzene	16.442	1382	Identified	32157	50.772
1,2,4-Trimethylbenzene	16.494	1387	Identified	108911	49.772
4-Isopropyltoluene	16.656	1401	Identified	111032	48.675
Bromoform	16.985	1431	Identified	36446	45.626
1,2,3-Trichloropropane	17.156	1446	Identified	28056	44.535
n-Butylbenzene	17.284	1457	Identified	109871	51.515
1,1,2,2-Tetrachloroethane	17.578	1483	Identified	44846	52.661
1,3-Dichlorobenzene	17.662	1491	Identified	48096	49.247
1,4-Dichlorobenzene	17.936	1515	Identified	47406	50.211
1,2-Dichlorobenzene	18.542	1569	Identified	46443	48.981

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.127	1708	Identified	108261	47.734
1,2-Dibromo-3-chloropropane	20.417	1734	Identified	18427	50.706
1,2,4-Trichlorobenzene	20.825	1770	Identified	37263	50.765
1,2,3-Trichlorobenzene	21.728	1850	Identified	38611	52.044
Naphthalene	21.737	1851	Identified	65797	46.058
2-Methylnaphthalene	23.218	1985	Identified	53614	51.122
1-Methylnaphthalene	23.610	2020	Identified	50720	49.917

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Revision Log
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8/29/2014 12:47 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/29/2014 Time: 21:25

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0814v\082914v\gro\2.5ug gro ccv 8-29-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2449.122	0.100	2.50	2.23	10.6	20.0	PASS	PASS
BFB	0.967	0.100	50.00	46.44	7.1	30.0	PASS	PASS

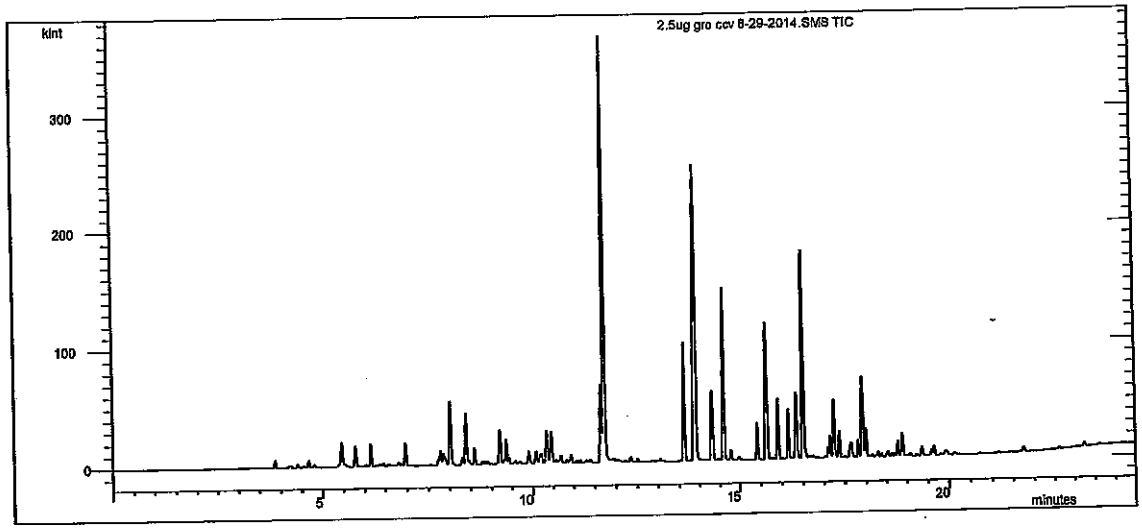
9-1-14

9/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2074	**Acquisition Date:**	8/29/2014 9:25:06 PM
Calculation Date:	9/1/2014 8:43:58 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.315	1197	Identified	40791	50.000
GRO	11.000	904	Identified	4.995E6	2.235
BFB	16.345	1377	Identified	39437	46.443

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**********************************************************
Revision Log
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8/29/2014 9:49 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/1/2014 8:43 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/30/2014 Time: 2:32

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: h:\val\data\2014v\0814v\082914v\100ng ccv 8-30-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.276	0.100	100.00	93.57	6.4	30.0	PASS	PASS
Chloromethane	0.320	0.100	100.00	69.63	30.4	30.0	FAIL	PASS
Vinyl chloride	1.159	0.100	100.00	86.00	14.0	20.0	PASS	PASS
Chloroethane	0.201	0.100	100.00	89.85	10.1	30.0	PASS	PASS
Bromomethane	1.169	0.100	100.00	139.59	-39.6	30.0	FAIL	PASS
Trichlorofluoromethane	0.867	0.100	100.00	104.47	-4.5	30.0	PASS	PASS
1,1-Dichloroethene	1.237	0.100	100.00	103.13	-3.1	20.0	PASS	PASS
Acetone	0.395	0.100	200.00	161.75	19.1	40.0	PASS	PASS
Carbon disulfide	1.037	0.100	200.00	220.92	-10.5	40.0	PASS	PASS
Iodomethane	0.133	0.100	200.00	68.83	65.6	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.237	0.100	200.00	197.33	1.3	30.0	PASS	PASS
Isopropyl ether	1.395	0.100	200.00	208.10	-4.0	40.0	PASS	PASS
tert-Butyl alcohol	0.251	0.100	2000.00	1855.74	7.2	40.0	PASS	PASS
trans-1,2-DCE	1.450	0.100	100.00	104.41	-4.4	30.0	PASS	PASS
tert-Butyl ethyl ether	2.710	0.100	200.00	206.02	-3.0	40.0	PASS	PASS
1,1-Dichloroethane	1.362	0.100	100.00	94.56	5.4	30.0	PASS	PASS
Methylene Chloride	1.351	0.100	100.00	92.23	7.8	30.0	PASS	PASS
Vinyl Acetate	1.082	0.100	200.00	122.48	38.8	40.0	PASS	PASS
2,2-Dichloropropane	0.671	0.100	100.00	83.60	16.4	30.0	PASS	PASS
2-Butanone	0.461	0.100	200.00	171.48	14.3	40.0	PASS	PASS
1,1,1-Trichloroethane	1.441	0.100	100.00	97.19	2.8	30.0	PASS	PASS
tert-Amyl methyl ether	1.286	0.100	200.00	187.52	6.2	40.0	PASS	PASS
1,1-Dichloropropene	0.654	0.100	100.00	98.48	1.5	30.0	PASS	PASS
Carbon Tetrachloride	3.051	0.100	100.00	99.09	0.9	30.0	PASS	PASS
cis-1,2-DCE	1.976	0.100	100.00	102.48	-2.5	30.0	PASS	PASS
Benzene	1.801	0.100	100.00	99.77	0.2	30.0	PASS	PASS
Chloroform	1.398	0.100	100.00	113.14	-13.1	20.0	PASS	PASS
Bromochloromethane	0.518	0.100	100.00	118.85	-18.9	30.0	PASS	PASS
Trichloroethene (TCE)	1.393	0.100	100.00	115.65	-15.7	30.0	PASS	PASS
Dibromofluoromethane	1.604	0.100	50.00	46.59	6.8	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.482	0.100	50.00	48.96	2.1	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.726	0.100	100.00	104.73	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	1.893	0.100	100.00	103.48	-3.5	20.0	PASS	PASS
4-Methyl-2-pentanone	1.971	0.100	200.00	209.99	-5.0	40.0	PASS	PASS
Toluene-d8	1.858	0.100	50.00	47.42	5.2	30.0	PASS	PASS

9/1/2014 9:09

Analyst: RAA

100ng ccv 8-30-2014.SMS

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.565	0.100	100.00	97.25	2.8	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.791	0.100	200.00	156.96	21.5	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.197	0.100	100.00	94.96	5.0	30.0	PASS	PASS
cis-1,3-dichloropropene	1.932	0.100	100.00	93.15	6.9	30.0	PASS	PASS
2-Hexanone	0.874	0.100	200.00	191.91	4.0	40.0	PASS	PASS
Bromodichloromethane	2.469	0.100	100.00	98.13	1.9	30.0	PASS	PASS
Dibromomethane	1.067	0.100	100.00	91.90	8.1	30.0	PASS	PASS
1,3-Dichloropropane	1.353	0.100	100.00	92.61	7.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.666	0.100	100.00	85.30	14.7	30.0	PASS	PASS
Ethylbenzene	2.831	0.100	100.00	96.25	3.7	20.0	PASS	PASS
mp-Xylenes	2.581	0.100	200.00	191.61	4.2	30.0	PASS	PASS
1,1,2-Trichloroethane	1.589	0.100	100.00	90.96	9.0	30.0	PASS	PASS
Chlorobenzene	1.203	0.300	100.00	92.76	7.2	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.396	0.100	100.00	98.99	1.0	30.0	PASS	PASS
o-Xylene	2.564	0.100	100.00	96.28	3.7	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.144	0.100	100.00	93.39	6.6	30.0	PASS	PASS
Dibromochloromethane	1.228	0.100	100.00	94.63	5.4	30.0	PASS	PASS
Isopropylbenzene	2.422	0.100	100.00	92.91	7.1	30.0	PASS	PASS
Styrene	1.192	0.100	100.00	94.00	6.0	30.0	PASS	PASS
n-Propylbenzene	5.698	0.100	100.00	92.92	7.1	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.107	0.100	100.00	92.77	7.2	30.0	PASS	PASS
tert-Butylbenzene	4.231	0.100	100.00	86.62	13.4	30.0	PASS	PASS
2-Chlorotoluene	1.406	0.100	100.00	90.02	10.0	30.0	PASS	PASS
4-Bromofluorobenzene	1.800	0.100	50.00	44.15	11.7	30.0	PASS	PASS
sec-Butylbenzene	2.614	0.100	100.00	76.66	23.3	30.0	PASS	PASS
4-Chlorotoluene	1.391	0.100	100.00	85.56	14.4	30.0	PASS	PASS
Bromobenzene	1.298	0.100	100.00	95.94	4.1	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.154	0.100	100.00	88.73	11.3	30.0	PASS	PASS
4-Isopropyltoluene	4.381	0.100	100.00	89.72	10.3	30.0	PASS	PASS
Bromoform	1.464	0.100	100.00	85.17	14.8	30.0	PASS	PASS
1,2,3-Trichloropropane	1.145	0.100	100.00	85.16	14.8	30.0	PASS	PASS
n-Butylbenzene	4.277	0.100	100.00	93.15	6.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.618	0.300	100.00	88.41	11.6	30.0	PASS	PASS
1,3-Dichlorobenzene	1.926	0.100	100.00	91.94	8.1	30.0	PASS	PASS
1,4-Dichlorobenzene	1.801	0.100	100.00	88.86	11.1	30.0	PASS	PASS
1,2-Dichlorobenzene	1.812	0.100	100.00	89.32	10.7	30.0	PASS	PASS
Hexachlorobutadiene	3.815	0.100	100.00	78.54	21.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.679	0.100	100.00	87.30	12.7	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.390	0.100	100.00	88.01	12.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.475	0.100	100.00	92.66	7.3	30.0	PASS	PASS
Naphthalene	2.650	0.100	100.00	85.99	14.0	30.0	PASS	PASS
2-Methylnaphthalene	2.090	0.100	100.00	92.53	7.5	40.0	PASS	PASS
1-Methylnaphthalene	1.958	0.100	100.00	89.58	10.4	40.0	PASS	PASS

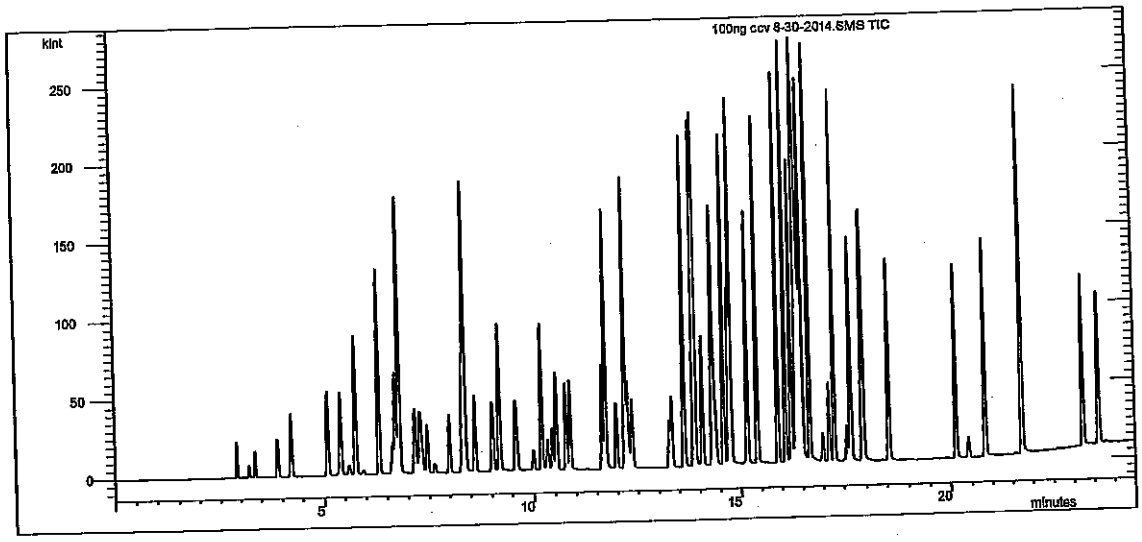
9/1.14

JBS 9/1/14

Analyst: RAA

8260B/624 Report

Sample Name:	100ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0470	**Acquisition Date:**	8/30/2014 2:32:52 AM
Calculation Date:	8/30/2014 2:57:21 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.997	636	Identified	27127	50.000
Benzene-d5-, chloro-	14.310	1195	Identified	40279	50.000
1,4-Dichlorobenzene-d4	17.912	1515	Identified	22638	50.000
Dichlorodifluoromethane	2.906	185	Identified	69207	93.572
Chloromethane	3.207	211	Identified	17368	69.632
Vinyl chloride	3.355	225	Identified	62864	86.001
Chloroethane	3.887	272	Identified	10882	89.853
Bromomethane	3.906	274	Identified	63429	139.592
Trichlorofluoromethane	4.229	302	Identified	47014	104.469
1,1-Dichloroethene	5.090	379	Identified	67087	103.131
Acetone	5.366	403	Identified	42865	161.746
Carbon disulfide	5.403	406	Identified	112519	220.916
Iodomethane	5.604	424	Identified	14434	68.829
Methyl tert-butyl ether (MTBE)	5.754	437	Identified	134270	197.325
Isopropyl ether	6.314	487	Identified	151379	208.095
tert-Butyl alcohol	6.643	516	Identified	272630	1855.736
trans-1,2-DCE	6.715	522	Identified	78648	104.408
tert-Butyl ethyl ether	6.802	530	Identified	294066	206.020
1,1-Dichloroethane	7.176	563	Identified	73913	94.560
Methylene Chloride	7.295	574	Identified	73299	92.232
Vinyl Acetate	7.349	578	Identified	117365	122.477
2,2-Dichloropropane	7.456	588	Identified	36394	83.602
2-Butanone	7.633	604	Identified	49999	171.475
1,1,1-Trichloroethane	8.311	664	Identified	78155	97.195

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.369	669	Identified	139550	187.516
1,1-Dichloropropene	8.384	670	Identified	35490	98.483
Carbon Tetrachloride	8.614	691	Identified	165535	99.092
cis-1,2-DCE	9.032	728	Identified	107189	102.476
Benzene	9.193	742	Identified	97717	99.767
Chloroform	9.587	777	Identified	75828	113.144
Bromochloromethane	9.998	813	Identified	28113	118.853
Trichloroethene (TCE)	10.191	830	Failed	75590	115.653
Dibromofluoromethane	10.331	843	Identified	43515	46.591
1,2-Dichloroethane-d4	10.443	853	Identified	121572	48.961
1,2-Dichloroethane (EDC)	10.539	861	Identified	93624	104.732
1,2-Dichloropropane	10.767	881	Identified	102725	103.481
4-Methyl-2-pentanone	10.863	890	Identified	213836	209.995
Toluene-d8	11.633	958	Identified	74830	47.422
Toluene	11.713	965	Identified	206612	97.248
2-Chloroethyl vinyl ether	11.975	988	Identified	127475	156.957
Tetrachloroethene (PCE)	12.177	1006	Identified	96403	94.957
cis-1,3-dichloropropene	12.184	1007	Identified	155664	93.149
2-Hexanone	12.183	1007	Identified	140776	191.915
Bromodichloromethane	12.252	1013	Identified	198914	98.131
Dibromomethane	12.355	1022	Identified	85918	91.897
1,3-Dichloropropane	13.254	1101	Identified	109012	92.608
trans-1,3-dichloropropene	13.317	1107	Identified	53688	85.297
Ethylbenzene	13.616	1133	Identified	228039	96.250
mp-Xylenes	13.867	1155	Identified	415897	191.614
1,1,2-Trichloroethane	14.068	1173	Identified	128037	90.962
Chlorobenzene	14.331	1197	Identified	96913	92.761
1,2-Dibromoethane (EDB)	14.389	1202	Identified	112487	98.990
o-Xylene	14.582	1219	Identified	206529	96.281
1,1,1,2-Tetrachloroethane	14.709	1230	Identified	172717	93.388
Dibromochloromethane	14.740	1233	Identified	98939	94.633
Isopropylbenzene	14.773	1236	Identified	195130	92.915
Styrene	15.165	1271	Identified	95988	93.998
n-Propylbenzene	15.408	1293	Identified	257971	92.921
1,3,5-Trimethylbenzene	15.899	1336	Identified	185950	92.768
tert-Butylbenzene	16.094	1353	Identified	191561	86.615
2-Chlorotoluene	16.242	1366	Identified	63653	90.019
4-Bromofluorobenzene	16.339	1375	Identified	40739	44.151
sec-Butylbenzene	16.369	1378	Identified	118342	76.663
4-Chlorotoluene	16.405	1381	Identified	62999	85.564
Bromobenzene	16.445	1384	Identified	58753	95.941
1,2,4-Trimethylbenzene	16.496	1389	Identified	188082	88.728
4-Isopropyltoluene	16.658	1403	Identified	198371	89.718
Bromoform	16.988	1433	Identified	66280	85.171
1,2,3-Trichloropropane	17.159	1448	Identified	51858	85.157
n-Butylbenzene	17.286	1459	Identified	193651	93.148
1,1,2,2-Tetrachloroethane	17.579	1485	Identified	73253	88.408
1,3-Dichlorobenzene	17.665	1493	Identified	87183	91.936
1,4-Dichlorobenzene	17.938	1517	Identified	81545	88.863
1,2-Dichlorobenzene	18.544	1571	Identified	82040	89.317

Operator: Danny Ferraro

Inj. Notes: V-54-0470

100ng ccv 8-30-2014.SMS
8/30/2014 2:58

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.127	1711	Identified	172732	78.543
1,2-Dibromo-3-chloropropane	20.415	1736	Identified	30754	87.300
1,2,4-Trichlorobenzene	20.826	1773	Identified	62949	88.009
1,2,3-Trichlorobenzene	21.728	1853	Identified	66771	92.665
Naphthalene	21.735	1853	Identified	119995	85.994
2-Methylnaphthalene	23.222	1987	Identified	94632	92.534
1-Methylnaphthalene	23.609	2023	Identified	88633	89.576

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Revision Log
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8/30/2014 2:57 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

rian Star Workstation - Generic SampleList Tue Sep 02 17:07:15 2014

mpleList: C:\VarianWS\090214v.smp

eated: Tue Sep 02 08:21:39 2014
dified: Tue Sep 02 16:50:04 2014

****

Line	Sample Name	Injection Notes
1	tt	below
	Notes all using v-52-0521	
2	5ml rb	none ← Tune 9:19
3	100ng ccv	below
	Notes v-54-0475	
4	100ng lcs	below
	Notes v-11-8070	
5	100ng ccvb	below @10:44
	Notes v-54-0475	
6	100ng lcsb	below
	Notes v-11-8070	
7	vcb1	none ← Tune 11:40
8	1408d26-001a	below
	Notes r200 0.25mL (T) AIR	
9	1408d26-002a	below
	Notes r200 0.25mL (T) AIR	
10	1408d26-003a	below
	Notes x250 0.2mL AIR	
11	1408d26-003adup	below
	Notes x250 0.2mL AIR	
12	1408d26-004a	below
	Notes x250 0.2mL AIR	
13	1408d26-005a	below ← HANDSCALC: AIR
	Notes x100 0.5mL AIR	
14	1408d26-006a	below
	Notes x200 0.25mL AIR	
15	1408d26-007a	below
	Notes x200 0.25mL AIR	
16	1408d26-008a	below
	Notes x200 0.25mL AIR	
17	1408d26-006a	below
	Notes r100 0.5mL AIR	
18	1408d26-007a	below
	Notes r100 0.5mL AIR	
19	1408d26-008a	below — Mis-shot
	Notes r100 0.5mL AIR r100	
20	1408c55-001a	below ← HANDSCALC: Water
	Notes x5 1mL (no ms/msd see CAR)	
21	1408c55-002a	below
	Notes x5 1mL (no ms/msd see CAR) r50 : TCE	
22	1408c55-003a	below
	Notes x5 1mL (no ms/msd see CAR) r50 : 111-TCA, TCE	
23	1408c55-004a	below
	Notes x5 1mL (no ms/msd see CAR) r50 : 111-TCA, TCE	
24	1408c55-005a	below
	Notes x5 1mL (no ms/msd see CAR)	
25	1408c55-006a	below
	Notes x5 1mL (no ms/msd see CAR)	
26	1408c55-007a	below
	Notes x5 1mL (no ms/msd see CAR) (headspace) r50 : TCE, 11-DCA	
27	1408d61-001a	below
	Notes r1,000-0.001uL V_O PB14994 T, X	
28	1408d64-001a	below
	Notes r1-100uL V_O PB14994	
29	b1	none ← Tune 9:59
30 @10:27	lcs-15040	below
	Notes V-11-8069 SoilTCLP	
31	tt	none
32	rtm	below
	Notes v-18-2064	
33	2.25ug gro ccv	below
	Notes v-18-2074	
34	2.5ug gro lcs	below
	Notes v-18-2067	
35	75ng ccv	below ALL: Chloroform
	Notes v-54-0475	

Loaded By: DF 9/2/2014 / H 9-2-14
1st Review By: DF 9/3/2014 / H 9-3-14
QA'd By: NB 9/3/14

```
                Notes  4681 SoilTCLP
37                vcb2       none
38          1408e34-001a     below
                Notes  r1-100uL MeOH G, 8260
39       1408e34-001a ms     below
                Notes  V-11-8070 MeOH
40      1408e34-001a msd     below
                Notes  V-11-8070 MeOH
41     1408e34-001a ms g     below
                Notes  V-18-2067 MeOH
42 1408e34-001a msd g     below
                Notes  V-18-2067 MeOH
43          1408f15-001a     below
                Notes  x10-10uL PB15040 SoilTCLP
44        1408f15-001ams     below
                Notes  x10 V-11-8069 PB15040 SoilTCLP
45       1408f15-001amsd     below
                Notes  x10 V-11-8069 PB15040 SoilTCLP
46          1408f15-002a     below
                Notes  x10-10uL PB15040 SoilTCLP
47          1408f15-003a     below
                Notes  x10-10uL PB15040 SoilTCLP
48          1408f15-004a     below
                Notes  x10-10uL PB15040 SoilTCLP
49          1408f15-005a     below
                Notes  x10-10uL PB15040 SoilTCLP
50          1408f15-006a     below
                Notes  x10-10uL PB15040 SoilTCLP
51

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\090214v.rcl.
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Loaded By: DF 9/2/2014
1st Review By: DF 9/3/2014
QA'd By: JMS 9/3/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090214v\100ng ccvb 9-2-2014.SMS Lab Sample ID: 100ng ccvb

Instrument ID: VAL Date Analyzed: 9/2/2014 Time Analyzed: 10:44

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	29748	8.00	43892	14.30	24454	17.91						
UPPER LIMIT	59496	8.50	87784	14.80	48908	18.41						
LOWER LIMIT	14874	7.50	21946	13.80	12227	17.41						
EPA SAMPLE NO												
tt 9-2-201	36938	7.99	49098	14.30	26213	17.91						
5ml rb 9-2	31671	7.99	44557	14.31	25483	17.91						
100ng ccv	30583	8.00	44712	14.31	25885	17.91						
100ng lcs	29452	8.00	42152	14.30	23736	17.91						
100ng lcsb	29269	8.00	42440	14.31	23234	17.91						
vcb1 9-2-2	27742	8.00	40852	14.30	22544	17.91						
1408d26-00	28956	8.00	42318	14.31	22538	17.91						
1408d26-00	33683	8.01	41575	14.31	23958	17.92						
1408d26-00	29010	8.00	41162	14.31	22593	17.92						
1408d26-00	27973	8.00	41015	14.31	23423	17.92						
1408d26-00	30121	8.01	42123	14.31	22689	17.92						
1408d26-00	29283	8.01	40845	14.32	22443	17.92						
1408d26-00	28180	8.01	38241	14.32	21118	17.92						
1408d26-00	28366	8.01	41254	14.31	22077	17.92						
1408d26-00	28810	8.01	40209	14.31	22273	17.92						
1408d26-00	28949	8.01	40152	14.31	22240	17.92						

DF 9/3/2014 JB 9/3/14

Analyst: djf

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408d26-00	29037	8.01	39139	14.31	21275	17.92						
1408d26-00	26760	8.01	38825	14.32	21556	17.92						
1408c55-00	25106	8.01	36332	14.31	20685	17.92						
1408c55-00	27350	8.01	38654	14.32	21701	17.92						
1408c55-00	25182	8.01	37791	14.31	21447	17.92						
1408c55-00	27252	8.01	40400	14.32	21973	17.93						
1408c55-00	27084	8.01	39283	14.32	21563	17.92						
1408c55-00	26219	8.01	38771	14.32	22097	17.92						
1408c55-00	25546	8.01	38390	14.32	21776	17.92						
1408d61-00	27036	8.01	39678	14.32	21597	17.92						
1408d64-00	28200	8.01	38151	14.32	25220	17.92						
b1 9-2-201	27813	8.01	40065	14.32	21622	17.92						
lcs-15040	28496	8.00	39125	14.32	25263	17.92						
tt 9-2-201	27841	8.01	38509	14.32	21721	17.93						
rtm 9-2-20	27628	8.01	39853	14.32	21873	17.92						
2.25ug gro	27582	8.01	39260	14.32	21626	17.92						
2.5ug gro	28024	8.01	40399	14.32	22156	17.92						
75ng ccv 9	25346	8.01	39044	14.32	22136	17.92						
mb-15040 9	31873	8.01	41653	14.32	24621	17.92						
vcb2 9-3-2	27987	8.01	40720	14.32	22476	17.92						
1408e34-00	26986	8.00	37733	14.32	24753	17.92						
1408e34-00	29678	8.00	37977	14.32	25169	17.92						
1408e34-00	32066	8.00	40324	14.32	27374	17.92						
1408e34-00	32553	8.01	43212	14.32	28357	17.93						
1408e34-00	32254	8.00	41193	14.32	26409	17.92						
1408f15-00	31916	8.01	43131	14.32	23923	17.92						
1408f15-00	30060	8.01	43770	14.32	23014	17.92						
1408f15-00	28247	8.01	40910	14.32	21896	17.92						
1408f15-00	27241	8.00	39359	14.32	21025	17.92						
1408f15-00	28832	8.00	41107	14.32	22534	17.92						
1408f15-00	28688	8.00	38980	14.32	21908	17.92						
1408f15-00	26497	8.00	38653	14.31	22290	17.92						
1408f15-00	27165	8.00	39024	14.31	21785	17.92						

DF
9/3/2014

✓ NB 9/3/14

Analyst: djf

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

DF 9/3/2014

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/2/2014 Time: 23:51

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090214v\gro\2.25ug gro ccv 9-2-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2693.227	0.100	2.25	2.21	1.9	20.0	PASS	PASS
BFB	0.998	0.100	50.00	47.96	4.1	30.0	PASS	PASS

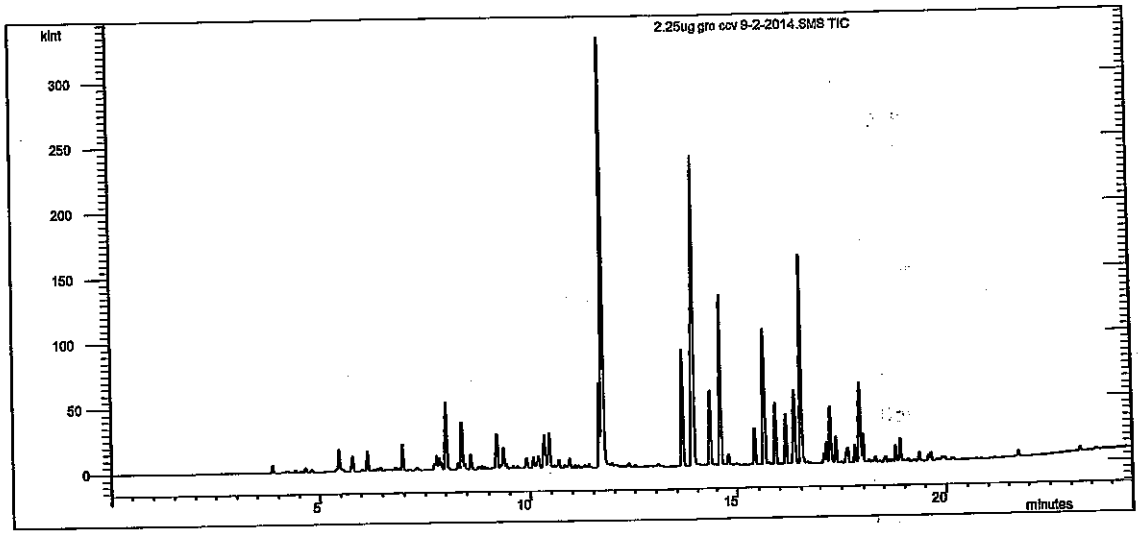
BF 9-3-14

✓ JB 9/4/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/2/2014 11:51:01 PM
Calculation Date:	9/3/2014 8:34:51 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.318	1196	Identified	38792	50.000
GRO	11.000	904	Identified	4.701E6	2.207
BFB	16.348	1376	Identified	38728	47.957

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Revision Log
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9/3/2014 12:15 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/3/2014 8:34 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
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VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/3/2014 Time: 0:47

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 9-3-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.130	0.100	75.00	117.08	-56.1	30.0	FAIL	PASS
Chloromethane	0.437	0.100	75.00	71.25	5.0	30.0	PASS	PASS
Vinyl chloride	1.554	0.100	75.00	86.52	-15.4	20.0	PASS	PASS
Chloroethane	0.230	0.100	75.00	77.74	-3.7	30.0	PASS	PASS
Bromomethane	1.253	0.100	75.00	112.21	-49.6	30.0	FAIL	PASS
Trichlorofluoromethane	0.953	0.100	75.00	86.04	-14.7	30.0	PASS	PASS
1,1-Dichloroethene	1.388	0.100	75.00	86.95	-15.9	20.0	PASS	PASS
Acetone	0.421	0.100	150.00	128.73	14.2	40.0	PASS	PASS
Carbon disulfide	1.161	0.100	150.00	185.32	-23.5	40.0	PASS	PASS
Iodomethane	0.112	0.100	150.00	50.57	66.3	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.320	0.100	150.00	157.73	-5.2	30.0	PASS	PASS
Isopropyl ether	1.549	0.100	150.00	173.40	-15.6	40.0	PASS	PASS
tert-Butyl alcohol	0.208	0.100	1500.00	1163.58	22.4	40.0	PASS	PASS
trans-1,2-DCE	1.579	0.100	75.00	85.47	-14.0	30.0	PASS	PASS
tert-Butyl ethyl ether	2.968	0.100	150.00	169.25	-12.8	40.0	PASS	PASS
1,1-Dichloroethane	1.417	0.100	75.00	74.13	1.2	30.0	PASS	PASS
Methylene Chloride	1.600	0.100	75.00	82.00	-9.3	30.0	PASS	PASS
Vinyl Acetate	1.258	0.100	150.00	107.27	28.5	40.0	PASS	PASS
2,2-Dichloropropane	0.719	0.100	75.00	67.07	10.6	30.0	PASS	PASS
2-Butanone	0.427	0.100	150.00	123.45	17.7	40.0	PASS	PASS
1,1,1-Trichloroethane	1.542	0.100	75.00	78.08	-4.1	30.0	PASS	PASS
tert-Amyl methyl ether	1.411	0.100	150.00	154.22	-2.8	40.0	PASS	PASS
1,1-Dichloropropene	0.705	0.100	75.00	79.53	-6.0	30.0	PASS	PASS
Carbon Tetrachloride	3.357	0.100	75.00	81.76	-9.0	30.0	PASS	PASS
cis-1,2-DCE	2.082	0.100	75.00	81.11	-8.1	30.0	PASS	PASS
Benzene	2.002	0.100	75.00	83.17	-10.9	30.0	PASS	PASS
Chloroform	1.492	0.100	75.00	90.64	-20.9	20.0	FAIL	PASS
Bromochloromethane	0.566	0.100	75.00	97.30	-29.7	30.0	PASS	PASS
Trichloroethene (TCE)	1.571	0.100	75.00	97.81	-30.4	30.0	FAIL	PASS
Dibromofluoromethane	1.672	0.100	50.00	48.50	3.0	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.417	0.100	50.00	48.34	3.3	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.833	0.100	75.00	83.73	-11.6	30.0	PASS	PASS
1,2-Dichloropropane	2.044	0.100	75.00	83.99	-12.0	20.0	PASS	PASS
4-Methyl-2-pentanone	2.052	0.100	150.00	164.51	-9.7	40.0	PASS	PASS
Toluene-d8	1.825	0.100	50.00	46.63	6.7	30.0	PASS	PASS

RR HAs

RR HAs

NR

CCC

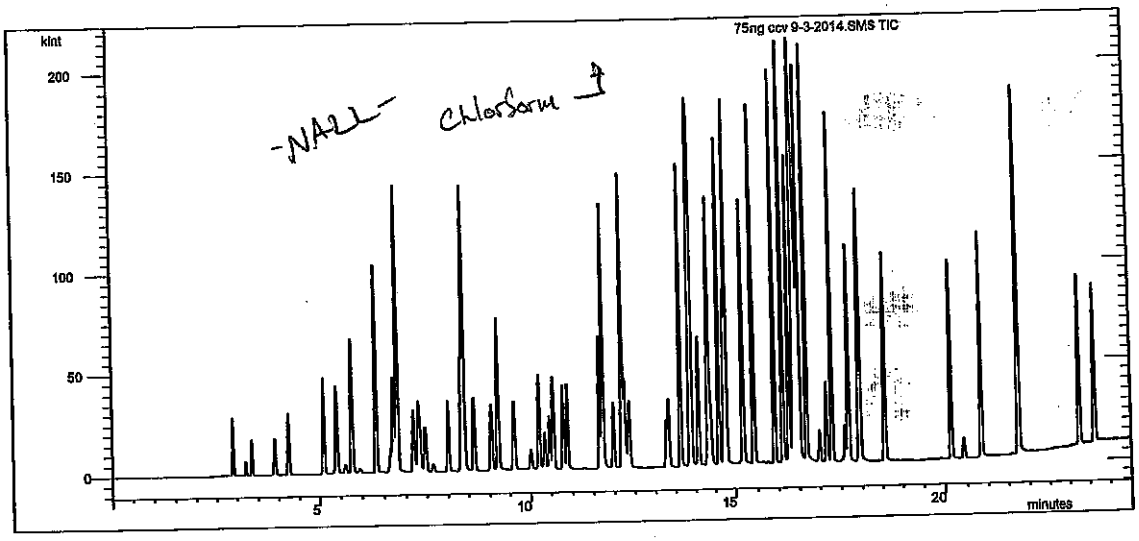
Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.748	0.100	75.00	78.11	-4.1	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.808	0.100	150.00	120.58	19.6	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.348	0.100	75.00	80.16	-6.9	30.0	PASS	PASS
cis-1,3-dichloropropene	1.970	0.100	75.00	71.30	4.9	30.0	PASS	PASS
2-Hexanone	0.922	0.100	150.00	152.03	-1.4	40.0	PASS	PASS
Bromodichloromethane	2.647	0.100	75.00	79.00	-5.3	30.0	PASS	PASS
Dibromomethane	1.098	0.100	75.00	70.94	5.4	30.0	PASS	PASS
1,3-Dichloropropane	1.441	0.100	75.00	73.95	1.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.720	0.100	75.00	69.16	7.8	30.0	PASS	PASS
Ethylbenzene	3.050	0.100	75.00	77.82	-3.8	20.0	PASS	PASS
mp-Xylenes	2.821	0.100	150.00	157.07	-4.7	30.0	PASS	PASS
1,1,2-Trichloroethane	1.680	0.100	75.00	72.26	3.7	30.0	PASS	PASS
Chlorobenzene	1.259	0.300	75.00	72.85	2.9	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.462	0.100	75.00	77.71	-3.6	30.0	PASS	PASS
o-Xylene	2.708	0.100	75.00	76.30	-1.7	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.217	0.100	75.00	72.42	3.4	30.0	PASS	PASS
Dibromochloromethane	1.314	0.100	75.00	75.94	-1.2	30.0	PASS	PASS
Isopropylbenzene	2.588	0.100	75.00	74.48	0.7	30.0	PASS	PASS
Styrene	1.248	0.100	75.00	73.93	1.4	30.0	PASS	PASS
n-Propylbenzene	6.131	0.100	75.00	75.01	0.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.385	0.100	75.00	74.21	1.1	30.0	PASS	PASS
tert-Butylbenzene	4.545	0.100	75.00	69.68	7.1	30.0	PASS	PASS
2-Chlorotoluene	1.427	0.100	75.00	68.48	8.7	30.0	PASS	PASS
4-Bromofluorobenzene	1.813	0.100	50.00	44.48	11.0	30.0	PASS	PASS
sec-Butylbenzene	2.803	0.100	75.00	61.73	17.7	30.0	PASS	PASS
4-Chlorotoluene	1.475	0.100	75.00	68.09	9.2	30.0	PASS	PASS
Bromobenzene	1.339	0.100	75.00	74.18	1.1	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.544	0.100	75.00	72.78	3.0	30.0	PASS	PASS
4-Isopropyltoluene	4.712	0.100	75.00	72.36	3.5	30.0	PASS	PASS
Bromoform	1.565	0.100	75.00	68.37	8.8	30.0	PASS	PASS
1,2,3-Trichloropropane	1.159	0.100	75.00	64.57	13.9	30.0	PASS	PASS
n-Butylbenzene	4.439	0.100	75.00	72.65	3.1	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.733	0.300	75.00	71.13	5.2	30.0	PASS	PASS
1,3-Dichlorobenzene	1.961	0.100	75.00	70.27	6.3	30.0	PASS	PASS
1,4-Dichlorobenzene	1.904	0.100	75.00	70.50	6.0	30.0	PASS	PASS
1,2-Dichlorobenzene	1.915	0.100	75.00	70.78	5.6	30.0	PASS	PASS
Hexachlorobutadiene	4.193	0.100	75.00	64.75	13.7	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.699	0.100	75.00	67.33	10.2	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.469	0.100	75.00	69.84	6.9	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.537	0.100	75.00	72.45	3.4	30.0	PASS	PASS
Naphthalene	2.870	0.100	75.00	69.99	6.7	30.0	PASS	PASS
2-Methylnaphthalene	2.144	0.100	75.00	71.32	4.9	40.0	PASS	PASS
1-Methylnaphthalene	2.064	0.100	75.00	70.95	5.4	40.0	PASS	PASS

Analyst: djf

8260B/624 Report

Sample Name:	75ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-54-0475	**Acquisition Date:**	9/3/2014 12:47:07 AM
Calculation Date:	9/3/2014 1:11:35 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.010	637	Identified	25346	50.000
Benzene-d5-, chloro-	14.319	1195	Identified	39044	50.000
1,4-Dichlorobenzene-d4	17.924	1514	Identified	22136	50.000
Dichlorodifluoromethane	2.913	185	Identified	80968	117.078
Chloromethane	3.213	212	Identified	16609	71.249
Vinyl chloride	3.363	225	Identified	59096	86.516
Chloroethane	3.898	273	Identified	8760	77.745
Bromomethane	3.915	274	Identified	47623	112.205
Trichlorofluoromethane	4.240	303	Identified	36217	86.035
1,1-Dichloroethene	5.100	379	Identified	52753	86.951
Acetone	5.382	404	Identified	32000	128.735
Carbon disulfide	5.414	407	Identified	88278	185.317
Iodomethane	5.619	425	Identified	8536	50.570
Methyl tert-butyl ether (MTBE)	5.767	439	Identified	100360	157.728
Isopropyl ether	6.326	488	Identified	117768	173.401
tert-Butyl alcohol	6.659	517	Identified	157786	1163.577
trans-1,2-DCE	6.730	524	Identified	60018	85.475
tert-Butyl ethyl ether	6.815	531	Identified	225654	169.248
1,1-Dichloroethane	7.190	564	Identified	53876	74.133
Methylene Chloride	7.310	575	Identified	60815	82.004
Vinyl Acetate	7.356	579	Identified	95624	107.271
2,2-Dichloropropane	7.470	590	Identified	27329	67.071
2-Butanone	7.652	606	Identified	32491	123.452
1,1,1-Trichloroethane	8.326	665	Identified	58633	78.082

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.382	670	Identified	107276	154.221
1,1-Dichloropropene	8.398	671	Identified	26807	79.531
Carbon Tetrachloride	8.627	692	Identified	127646	81.760
cis-1,2-DCE	9.045	729	Identified	79152	81.109
Benzene	9.208	743	Identified	76130	83.174
Chloroform	9.603	778	Identified	56720	90.644
Bromochloromethane	10.013	814	Identified	21503	97.303
Trichloroethene (TCE)	10.206	831	Identified	59745	97.808
Dibromofluoromethane	10.345	844	Identified	42388	48.495
1,2-Dichloroethane-d4	10.459	854	Identified	111956	48.336
1,2-Dichloroethane (EDC)	10.552	862	Identified	69705	83.729
1,2-Dichloropropane	10.780	883	Identified	77698	83.985
4-Methyl-2-pentanone	10.876	891	Identified	156056	164.512
Toluene-d8	11.647	959	Identified	71240	46.627
Toluene	11.727	966	Identified	160919	78.110
2-Chloroethyl vinyl ether	11.980	988	Identified	94605	120.580
Tetrachloroethene (PCE)	12.190	1007	Identified	78928	80.159
cis-1,3-dichloropropene	12.190	1007	Identified	115394	71.297
2-Hexanone	12.197	1008	Identified	107938	152.031
Bromodichloromethane	12.260	1013	Identified	155001	78.998
Dibromomethane	12.363	1023	Identified	64317	70.936
1,3-Dichloropropane	13.266	1102	Identified	84380	73.953
trans-1,3-dichloropropene	13.327	1108	Identified	42164	69.161
Ethylbenzene	13.622	1134	Identified	178646	77.819
mp-Xylenes	13.873	1156	Identified	330379	157.066
1,1,2-Trichloroethane	14.077	1174	Identified	98371	72.256
Chlorobenzene	14.343	1197	Identified	73728	72.846
1,2-Dibromoethane (EDB)	14.397	1202	Identified	85647	77.708
o-Xylene	14.591	1219	Identified	158618	76.296
1,1,1,2-Tetrachloroethane	14.720	1230	Identified	129817	72.422
Dibromochloromethane	14.748	1233	Identified	76961	75.937
Isopropylbenzene	14.782	1236	Identified	151590	74.480
Styrene	15.176	1271	Identified	73080	73.926
n-Propylbenzene	15.419	1293	Identified	203587	75.014
1,3,5-Trimethylbenzene	15.909	1336	Identified	145600	74.212
tert-Butylbenzene	16.104	1353	Identified	150910	69.683
2-Chlorotoluene	16.254	1366	Identified	47378	68.481
4-Bromofluorobenzene	16.350	1375	Identified	40136	44.483
sec-Butylbenzene	16.380	1377	Identified	93084	61.734
4-Chlorotoluene	16.416	1381	Identified	48962	68.087
Bromobenzene	16.455	1384	Identified	44461	74.181
1,2,4-Trimethylbenzene	16.508	1389	Identified	150889	72.778
4-Isopropyltoluene	16.669	1403	Identified	156450	72.356
Bromoform	16.998	1432	Identified	51959	68.373
1,2,3-Trichloropropane	17.169	1447	Identified	38489	64.568
n-Butylbenzene	17.297	1459	Identified	147408	72.646
1,1,2,2-Tetrachloroethane	17.590	1485	Identified	57558	71.128
1,3-Dichlorobenzene	17.676	1492	Identified	65125	70.268
1,4-Dichlorobenzene	17.949	1517	Identified	63208	70.499
1,2-Dichlorobenzene	18.554	1570	Identified	63590	70.780

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.141	1710	Identified	139239	64.750
1,2-Dibromo-3-chloropropane	20.430	1736	Identified	23195	67.328
1,2,4-Trichlorobenzene	20.838	1772	Identified	48761	69.839
1,2,3-Trichlorobenzene	21.742	1852	Identified	51020	72.455
Naphthalene	21.749	1853	Identified	95311	69.989
2-Methylnaphthalene	23.233	1986	Identified	71176	71.324
1-Methylnaphthalene	23.622	2022	Identified	68548	70.949

****
Revision Log
****

9/3/2014 1:11 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

arian Star Workstation - Generic SampleList Wed Sep 03 16:29:54 2014

ampleList: C:\VarianWS\090314v.smp

reated: Wed Sep 03 08:31:11 2014
odified: Wed Sep 03 16:29:45 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0521	
2	b1	none ← Tune 9:22
3	2.0ug gro ccv	below @ 8:50
	Notes v-18-2074	
4	2.5ug gro lcs	below
	Notes v-18-2067	
5	75ng ccv	below @ 11:43
	Notes v-54-0475	
6	100ng lcs	below
	Notes v-11-8070	
7	75ng ccv2	below
	Notes V-54-0475	
8	100ng lcs1	below
	Notes V-11-8070	
9	vcb	none ← Tune 12:39
10	1408d26-008a	below
	Notes r100 0.5mL AIR	
11	1408e34-001a	below
	Notes r1-100uL MeOH	
12	1408e34-001a ms	below
	Notes V-11-8070 MeOH	
13	1408e34-001a msd	below
	Notes V-11-8070 MeOH	
14	b2	none
15	1409046-003a	below
	Notes x1-100uL MeOH G, 8260	
16	b3	none
17	1409046-006a	below
	Notes x5-20uL MeOH G, 8260	
18	b4	none
19	1409046-007a	below
	Notes x10-10uL MeOH G,8260	
20	1409046-007a ms	below
	Notes x10 V-11-8070	
21	1409046-007a msd	below
	Notes x10 V-11-8070	
22	1409046-007a ms g	below
	Notes x10 V-18-2067	
23	1409046-007a msd g	below
	Notes x10 V-18-2067	
24	b5	none
25	1408c55-002a	below
	Notes r50 0.1mL (TCE)	
26	1408c55-003a	below
	Notes r50 0.1mL (TCE, 111-TCA)	
27	1408c55-004a	below
	Notes r50 0.1mL (TCE, 111-TCA)	
28	1408c55-007a	below
	Notes r50 0.1mL (TCE, 11-DCA)	
29	lcs-15040	below
	Notes V-11-8069 SoilTCLP	
30	mb-15040	below
	Notes 4681 SoilTCLP	
31 @ 10:58	1408f15-001a	below
	Notes x10-10uL PB15040 SoilTCLP ← Archon Fault: Elevator not homed	
32	1408f15-002a	below
	Notes x10-10uL PB15040 SoilTCLP ~~NULL~~ Data Not acquired	
33	tt	none
34	b6	none
35	50ng ccv	below
	Notes V-54-0475	
36	vcb2	none
37	1408f15-001ams	below
	Notes x10 V-11-8069 SoilTCLP	
38	1408f15-001amsd	below

Loaded By: DF 9/3/2014 / AT 9.3.14
1st Review By: DF 9/4/2014 / MT 9.4.14
QA'd By: VJB 9/4/14

```
39          1408f15-003a      below
               Notes  x10-10uL PB15040 SoilTCLP
40          1408f15-004a      below
               Notes  x10-10uL PB15040 SoilTCLP
41          1408f15-005a      below
               Notes  x10-10uL PB15040 SoilTCLP
42          1408f15-006a      below
               Notes  x10-10uL PB15040 SoilTCLP
43             lcs-15046      below
               Notes  V-11-8069 PB15040 V_O
44           lcsd-15046       below
               Notes  V-11-8069 PB15040 V_O
45             mb-15046       below
               Notes  4681 V_O
46          1408f17-002a      below
               Notes  x100-1uL PB15046 V_O
47          1408f17-003a      below
               Notes  x100-1uL PB15046 V_O
48                  tt        none
49

irectory for Data Files: C:\VarianWS\data

         Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\090314v.rcl.
```

Loaded By: DF 9/3/2014
1st Review By: DF 9/4/2014
QA'd By: JDB 9/4/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090314v\75ng ccv2 9-3-2014.SMS Lab Sample ID: 75ng ccv2

Instrument ID: VAL Date Analyzed: 9/3/2014 Time Analyzed: 11:43

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	26473	8.00	38758	14.31	21535	17.92						
UPPER LIMIT	52946	8.50	77516	14.81	43070	18.42						
LOWER LIMIT	13237	7.50	19379	13.81	10768	17.42						
EPA SAMPLE NO												
rtm 9-3-20	26971	8.00	39202	14.31	22220	17.92						
b1 9-3-201	25792	8.00	37592	14.31	21698	17.92						
2.0ug gro	27396	8.00	38987	14.31	21443	17.91						
2.5ug gro	27258	8.00	39814	14.31	21575	17.91						
75ng ccv 9	25503	8.01	38258	14.31	21274	17.92						
100ng lcs	24769	8.01	37855	14.31	21116	17.92						
100ng lcs1	25160	8.00	38849	14.31	20893	17.92						
vcb 9-3-20	26582	8.01	38075	14.32	21768	17.92						
1408d26-00	26274	8.01	37172	14.31	20159	17.92						
1408e34-00	28486	8.00	39384	14.31	22178	17.92						
1408e34-00	26124	8.01	35745	14.32	23652	17.92						
1408e34-00	28855	8.01	38489	14.32	25529	17.92						
b2 9-3-201	30008	8.01	40352	14.32	22821	17.93						
1409046-003a	30532	8.01	40906	14.32	25211	17.93						
b3 9-3-201	28735	8.02	38709	14.32	23212	17.93						
1409046-004a	28895	8.01	43478	14.32	20038 D	17.92 D						

DF 9/4/2014

WB 9/4/14

RT ✓ + SP ✓ + AC ✓ OK DF 9/4/2014

9/4/2014 7:50

Analyst: djf

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
b4 9-3-201	28286	8.01	39440	14.32	21438	17.92						
1409046-007a	27225	8.01	41159	14.32	21298 D	17.92 D						
1409046-007a ms	27419	8.01	41679	14.32	21851 D	17.92 D						
1409046-007a msd	29056	8.01	43446	14.32	19197 D	17.92 D						
1409046-007a ms 9	28222	8.02	42662	14.33	22531 D	17.93 D						
1409046-007a msd 9	29017	8.01	40929	14.33	25733 D	17.93 D						
b5 9-3-201	28246	8.01	40441	14.32	21818	17.92						
1408c55-00	26124	8.02	38916	14.32	21458	17.93						
1408c55-00	25935	8.01	37797	14.33	21268	17.93						
1408c55-00	25655	8.01	37218	14.32	21199	17.93						
1408c55-00	25985	8.02	37994	14.32	20419	17.93						
lcs-15040	30391	8.01	41459	14.32	23290	17.93						
mb-15040 9	27570	8.01	36644	14.33	23642	17.93						
1408f15-00	29293	8.01	39357	14.32	22423	17.93						

* RT ✓ + AE ✓ + SP ✓ OK DF 9/4/2014

DF
9/4/2014

✓JB 9/4/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Internal Standard And RT Summary

9/4/2014 7:50

Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/3/2014 Time: 9:50

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090314v\gro\2.0ug gro ccv 9-3-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2715.498	0.100	2.00	1.93	3.5	20.0	PASS	PASS
BFB	0.986	0.100	50.00	47.34	5.3	30.0	PASS	PASS

MR 9.4.14

VNB 9/4/14

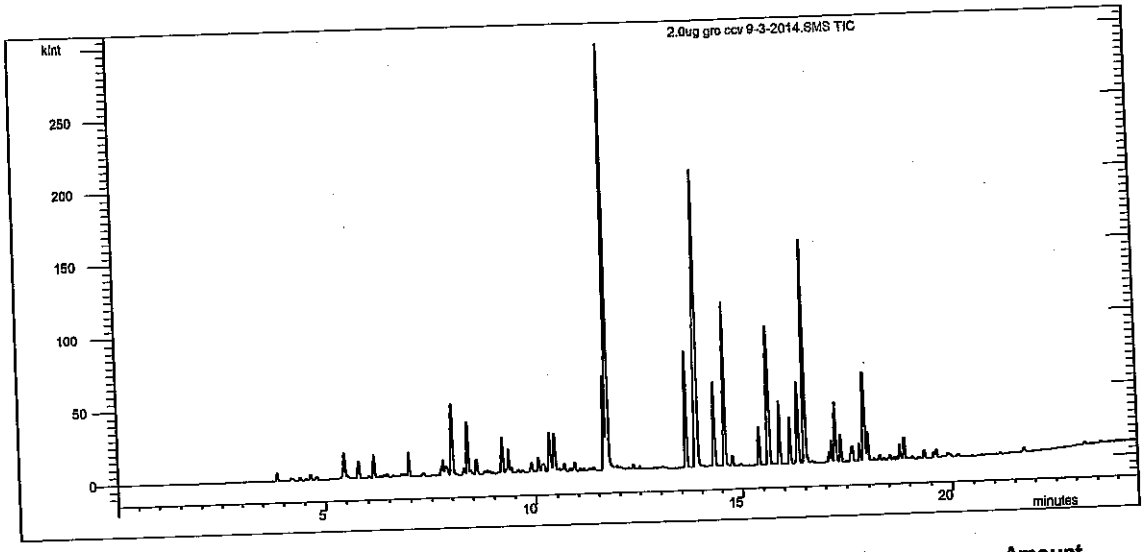
Analyst: RAA

8015D MOD GRO

Sample Name: 2.0ug gro ccv **Operator Name:** Danny Ferraro **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** v-18-2074 **Acquisition Date:** 9/3/2014 9:50:39 AM

Calculation Date: 9/3/2014 10:18:42 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.309	1195	Identified	38601	50.000
GRO	11.000	903	Identified	4.193E6	1.931
BFB	16.339	1375	Identified	38043	47.343

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Revision Log

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9/3/2014 10:15 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
9/3/2014 10:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/3/2014 Time: 11:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv2 9-3-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.955	0.100	75.00	107.52	-43.4	30.0	FAIL	PASS
Chloromethane	0.391	0.100	75.00	63.84	14.9	30.0	PASS	PASS
Vinyl chloride	1.243	0.100	75.00	69.45	7.4	20.0	PASS	PASS
Chloroethane	0.194	0.100	75.00	65.85	12.2	30.0	PASS	PASS
Bromomethane	1.032	0.100	75.00	92.48	-23.3	30.0	PASS	PASS
Trichlorofluoromethane	0.932	0.100	75.00	84.14	-12.2	30.0	PASS	PASS
1,1-Dichloroethene	1.313	0.100	75.00	82.32	-9.8	20.0	PASS	PASS
Acetone	0.390	0.100	150.00	119.15	20.6	40.0	PASS	PASS
Carbon disulfide	1.125	0.100	150.00	179.50	-19.7	40.0	PASS	PASS
Iodomethane	0.174	0.100	150.00	67.84	54.8	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.244	0.100	150.00	148.57	1.0	30.0	PASS	PASS
Isopropyl ether	1.428	0.100	150.00	159.89	-6.6	40.0	PASS	PASS
tert-Butyl alcohol	0.202	0.100	1500.00	1133.44	24.4	40.0	PASS	PASS
trans-1,2-DCE	1.499	0.100	75.00	81.21	-8.3	30.0	PASS	PASS
tert-Butyl ethyl ether	2.844	0.100	150.00	162.19	-8.1	40.0	PASS	PASS
1,1-Dichloroethane	1.360	0.100	75.00	71.23	5.0	30.0	PASS	PASS
Methylene Chloride	1.411	0.100	75.00	72.44	3.4	30.0	PASS	PASS
Vinyl Acetate	1.886	0.100	150.00	158.99	-6.0	40.0	PASS	PASS
2,2-Dichloropropane	0.887	0.100	75.00	82.87	-10.5	30.0	PASS	PASS
2-Butanone	0.400	0.100	150.00	116.41	22.4	40.0	PASS	PASS
1,1,1-Trichloroethane	1.489	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.321	0.100	150.00	144.35	3.8	40.0	PASS	PASS
1,1-Dichloropropene	0.681	0.100	75.00	76.79	-2.4	30.0	PASS	PASS
Carbon Tetrachloride	3.119	0.100	75.00	75.94	-1.3	30.0	PASS	PASS
cis-1,2-DCE	1.935	0.100	75.00	75.44	-0.6	30.0	PASS	PASS
Benzene	1.922	0.100	75.00	79.82	-6.4	30.0	PASS	PASS
Chloroform	1.424	0.100	75.00	86.52	-15.4	20.0	PASS	PASS
Bromochloromethane	0.535	0.100	75.00	92.00	-22.7	30.0	PASS	PASS
Trichloroethene (TCE)	1.334	0.100	75.00	82.99	-10.7	30.0	PASS	PASS
Dibromofluoromethane	1.642	0.100	50.00	47.64	4.7	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.381	0.100	50.00	47.99	4.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.758	0.100	75.00	80.36	-7.1	30.0	PASS	PASS
1,2-Dichloropropane	1.973	0.100	75.00	81.12	-8.2	20.0	PASS	PASS
4-Methyl-2-pentanone	1.883	0.100	150.00	151.12	-0.7	40.0	PASS	PASS
Toluene-d8	1.872	0.100	50.00	47.77	4.5	30.0	PASS	PASS

9/3/2014 12:09 Page 1 of 2 75ng ccv2 9-3-2014.sms

Analyst: RAA

QR Hits

NR

DF 9/4/2014

9/3/2014

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.675	0.100	75.00	76.04	-1.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.817	0.100	150.00	122.01	18.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.305	0.100	75.00	77.60	-3.5	30.0	PASS	PASS
cis-1,3-dichloropropene	1.990	0.100	75.00	72.01	4.0	30.0	PASS	PASS
2-Hexanone	0.904	0.100	150.00	149.22	0.5	40.0	PASS	PASS
Bromodichloromethane	2.535	0.100	75.00	75.68	-0.9	30.0	PASS	PASS
Dibromomethane	1.118	0.100	75.00	72.20	3.7	30.0	PASS	PASS
1,3-Dichloropropane	1.403	0.100	75.00	72.00	4.0	30.0	PASS	PASS
trans-1,3-dichloropropene	0.724	0.100	75.00	69.51	7.3	30.0	PASS	PASS
Ethylbenzene	3.005	0.100	75.00	76.66	-2.2	20.0	PASS	PASS
mp-Xylenes	2.680	0.100	150.00	149.27	0.5	30.0	PASS	PASS
1,1,2-Trichloroethane	1.710	0.100	75.00	73.53	2.0	30.0	PASS	PASS
Chlorobenzene	1.235	0.300	75.00	71.49	4.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.393	0.100	75.00	74.03	1.3	30.0	PASS	PASS
o-Xylene	2.676	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.140	0.100	75.00	69.90	6.8	30.0	PASS	PASS
Dibromochloromethane	1.265	0.100	75.00	73.09	2.6	30.0	PASS	PASS
Isopropylbenzene	2.461	0.100	75.00	70.82	5.6	30.0	PASS	PASS
Styrene	1.153	0.100	75.00	68.36	8.9	30.0	PASS	PASS
n-Propylbenzene	5.945	0.100	75.00	72.74	3.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.174	0.100	75.00	70.63	5.8	30.0	PASS	PASS
tert-Butylbenzene	4.306	0.100	75.00	66.00	12.0	30.0	PASS	PASS
2-Chlorotoluene	1.390	0.100	75.00	66.70	11.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.736	0.100	50.00	42.59	14.8	30.0	PASS	PASS
sec-Butylbenzene	2.731	0.100	75.00	60.15	19.8	30.0	PASS	PASS
4-Chlorotoluene	1.453	0.100	75.00	67.12	10.5	30.0	PASS	PASS
Bromobenzene	1.369	0.100	75.00	75.85	-1.1	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.301	0.100	75.00	68.87	8.2	30.0	PASS	PASS
4-Isopropyltoluene	4.497	0.100	75.00	69.06	7.9	30.0	PASS	PASS
Bromoform	1.630	0.100	75.00	71.19	5.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.202	0.100	75.00	66.96	10.7	30.0	PASS	PASS
n-Butylbenzene	4.502	0.100	75.00	73.66	1.8	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.833	0.300	75.00	75.17	-0.2	30.0	PASS	PASS
1,3-Dichlorobenzene	2.001	0.100	75.00	71.69	4.4	30.0	PASS	PASS
1,4-Dichlorobenzene	1.929	0.100	75.00	71.45	4.7	30.0	PASS	PASS
1,2-Dichlorobenzene	1.872	0.100	75.00	69.18	7.8	30.0	PASS	PASS
Hexachlorobutadiene	4.073	0.100	75.00	62.89	16.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.738	0.100	75.00	71.10	5.2	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.382	0.100	75.00	65.74	12.3	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.465	0.100	75.00	69.10	7.9	30.0	PASS	PASS
Naphthalene	2.711	0.100	75.00	66.15	11.8	30.0	PASS	PASS
2-Methylnaphthalene	2.149	0.100	75.00	71.49	4.7	40.0	PASS	PASS
1-Methylnaphthalene	1.965	0.100	75.00	67.57	9.9	40.0	PASS	PASS

9/4/2014

✓ NB 9/4/14

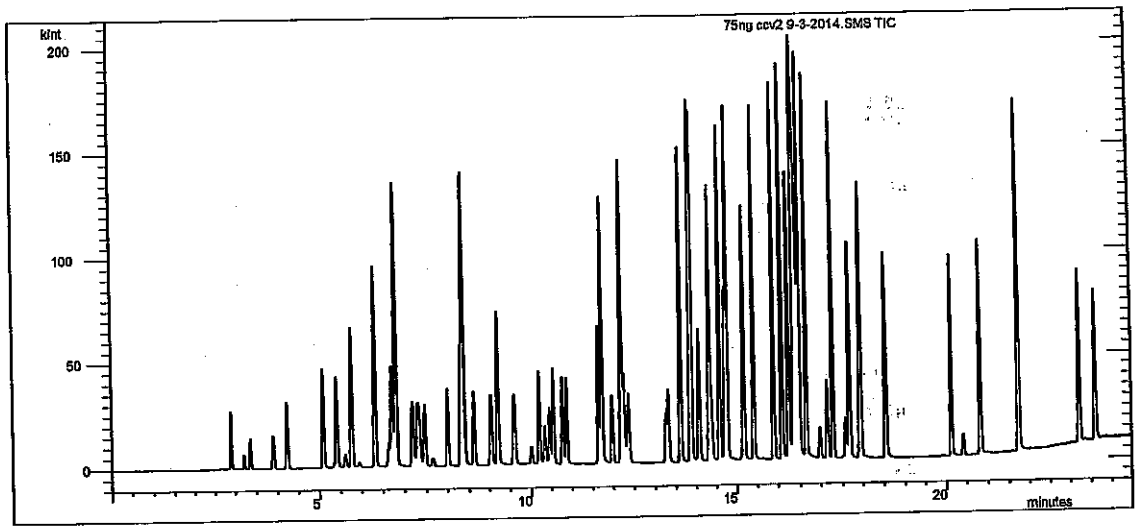
Analyst: RAA

8260B/624 Report

Sample Name: 75ng ccv2 **Operator Name:** Rene Aguilera **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** V-54-0475 **Acquisition Date:** 9/3/2014 11:43:19 AM

Calculation Date: 9/3/2014 12:07:49 PM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.004	637	Identified	26473	50.000
Benzene-d5-, chloro-	14.310	1196	Identified	38758	50.000
1,4-Dichlorobenzene-d4	17.916	1516	Identified	21535	50.000
Dichlorodifluoromethane	2.908	185	Identified	77646	107.524
Chloromethane	3.210	211	Identified	15525	63.839
Vinyl chloride	3.359	225	Identified	49360	69.451
Chloroethane	3.893	272	Identified	7705	65.848
Bromomethane	3.911	274	Identified	40982	92.483
Trichlorofluoromethane	4.235	302	Identified	37001	84.144
1,1-Dichloroethene	5.096	378	Identified	52128	82.317
Acetone	5.374	403	Identified	30979	119.146
Carbon disulfide	5.410	406	Identified	89326	179.502
Iodomethane	5.612	424	Identified	13805	67.839
Methyl tert-butyl ether (MTBE)	5.762	438	Identified	98756	148.570
Isopropyl ether	6.321	487	Identified	113374	159.893
tert-Butyl alcohol	6.645	516	Identified	160389	1133.437
trans-1,2-DCE	6.724	523	Identified	59513	81.205
tert-Butyl ethyl ether	6.808	530	Identified	225831	162.185
1,1-Dichloroethane	7.187	564	Identified	54015	71.228
Methylene Chloride	7.305	574	Identified	56027	72.443
Vinyl Acetate	7.358	579	Identified	149746	158.990
2,2-Dichloropropane	7.466	589	Identified	35207	82.867
2-Butanone	7.647	605	Identified	31792	116.408
1,1,1-Trichloroethane	8.320	665	Identified	59110	75.376

DF
9/4/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.375	669	Identified	104887	144.349
1,1-Dichloropropene	8.392	671	Identified	27039	76.792
Carbon Tetrachloride	8.620	691	Identified	123840	75.939
cis-1,2-DCE	9.039	728	Identified	76847	75.437
Benzene	9.200	742	Identified	76311	79.821
Chloroform	9.596	777	Identified	56537	86.521
Bromochloromethane	10.007	814	Identified	21235	92.003
Trichloroethene (TCE)	10.198	831	Identified	52961	82.991
Dibromofluoromethane	10.338	844	Identified	43457	47.636
1,2-Dichloroethane-d4	10.452	854	Identified	115980	47.987
1,2-Dichloroethane (EDC)	10.544	862	Identified	69824	80.359
1,2-Dichloropropane	10.773	882	Identified	78348	81.124
4-Methyl-2-pentanone	10.871	891	Identified	149543	151.123
Toluene-d8	11.640	959	Identified	72568	47.771
Toluene	11.719	966	Identified	155526	76.044
2-Chloroethyl vinyl ether	11.970	988	Identified	95047	122.014
Tetrachloroethene (PCE)	12.183	1007	Identified	75856	77.597
cis-1,3-dichloropropene	12.179	1007	Identified	115695	72.006
2-Hexanone	12.189	1008	Identified	105150	149.216
Bromodichloromethane	12.250	1013	Identified	147359	75.681
Dibromomethane	12.354	1022	Identified	64985	72.202
1,3-Dichloropropane	13.256	1102	Identified	81556	72.004
trans-1,3-dichloropropene	13.315	1107	Identified	42067	69.509
Ethylbenzene	13.613	1134	Identified	174698	76.662
mp-Xylenes	13.863	1156	Identified	311655	149.266
1,1,2-Trichloroethane	14.069	1174	Identified	99390	73.528
Chlorobenzene	14.334	1198	Identified	71826	71.492
1,2-Dibromoethane (EDB)	14.388	1203	Identified	81005	74.027
o-Xylene	14.583	1220	Identified	155576	75.384
1,1,1,2-Tetrachloroethane	14.710	1231	Identified	124387	69.904
Dibromochloromethane	14.745	1234	Identified	73581	73.086
Isopropylbenzene	14.774	1237	Identified	143084	70.821
Styrene	15.168	1272	Identified	67049	68.359
n-Propylbenzene	15.408	1294	Identified	192043	72.739
1,3,5-Trimethylbenzene	15.901	1337	Identified	134837	70.627
tert-Butylbenzene	16.095	1354	Identified	139105	65.999
2-Chlorotoluene	16.244	1367	Identified	44899	66.704
4-Bromofluorobenzene	16.341	1376	Identified	37377	42.590
sec-Butylbenzene	16.369	1379	Identified	88227	60.155
4-Chlorotoluene	16.408	1382	Identified	46951	67.119
Bromobenzene	16.448	1386	Identified	44225	75.853
1,2,4-Trimethylbenzene	16.499	1390	Identified	138924	68.871
4-Isopropyltoluene	16.661	1405	Identified	145275	69.061
Bromoform	16.991	1434	Identified	52645	71.192
1,2,3-Trichloropropane	17.161	1449	Identified	38822	66.955
n-Butylbenzene	17.289	1461	Identified	145431	73.664
1,1,2,2-Tetrachloroethane	17.583	1487	Identified	59195	75.168
1,3-Dichlorobenzene	17.667	1494	Identified	64643	71.692
1,4-Dichlorobenzene	17.941	1519	Identified	62326	71.452
1,2-Dichlorobenzene	18.546	1572	Identified	60464	69.176

9/4/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.131	1712	Identified	131563	62.888
1,2-Dibromo-3-chloropropane	20.420	1738	Identified	23829	71.103
1,2,4-Trichlorobenzene	20.830	1774	Identified	44630	65.742
1,2,3-Trichlorobenzene	21.733	1855	Identified	47330	69.098
Naphthalene	21.741	1855	Identified	87586	66.150
2-Methylnaphthalene	23.225	1990	Identified	69406	71.490
1-Methylnaphthalene	23.614	2025	Identified	63487	67.568

****
Revision Log
****

DF 9/4/2014

9/3/2014 12:07 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

:List: C:\VarianWS\080114v.smp

:d: Fri Aug 01 08:33:12 2014
.ed: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time@7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By: 8-4-14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UGL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ugL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ugL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	UQL: 22.027ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RT's checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH 8/4/14

JA 8.4.14

Internal Standard And RT Summary

8/4/2014 9:03
Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

1 of 8-4-14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JAF 8.4.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KSH 8/4/14

J 8-4-14

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

2 misses on different crv.

Ja 8-4-14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

KJH 8/4/14

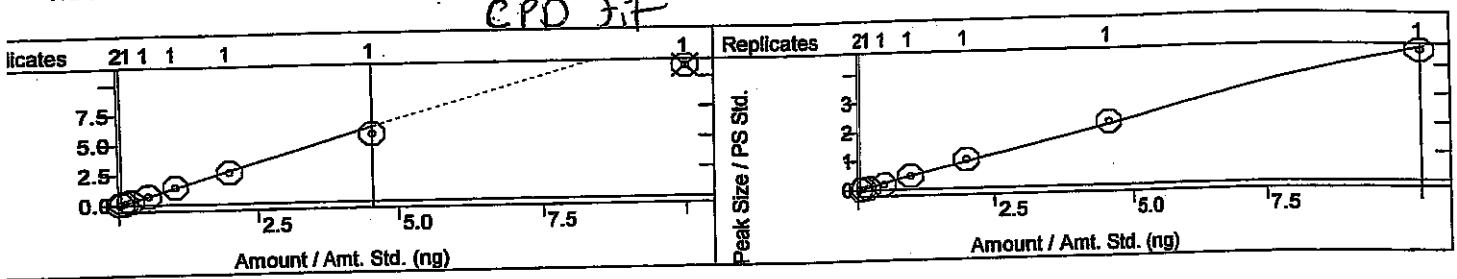
Analyst: KJH

hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
: +1.3682x -0.0093

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

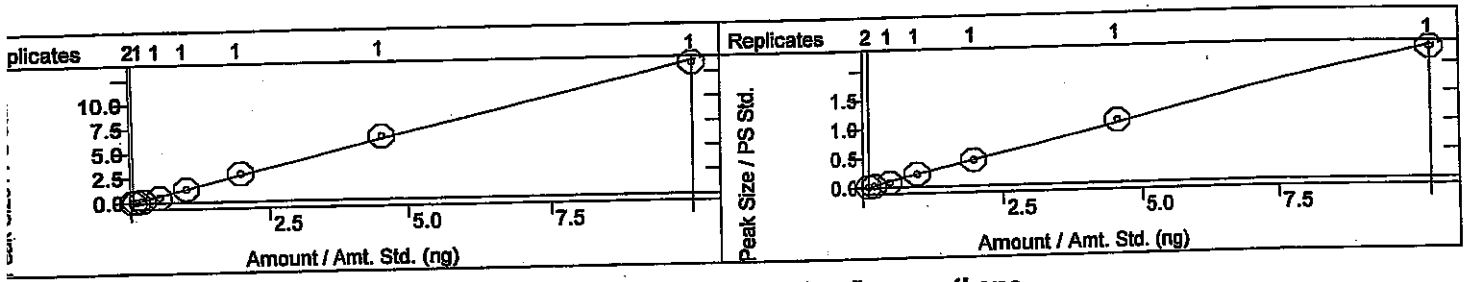
CPD fit



inyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

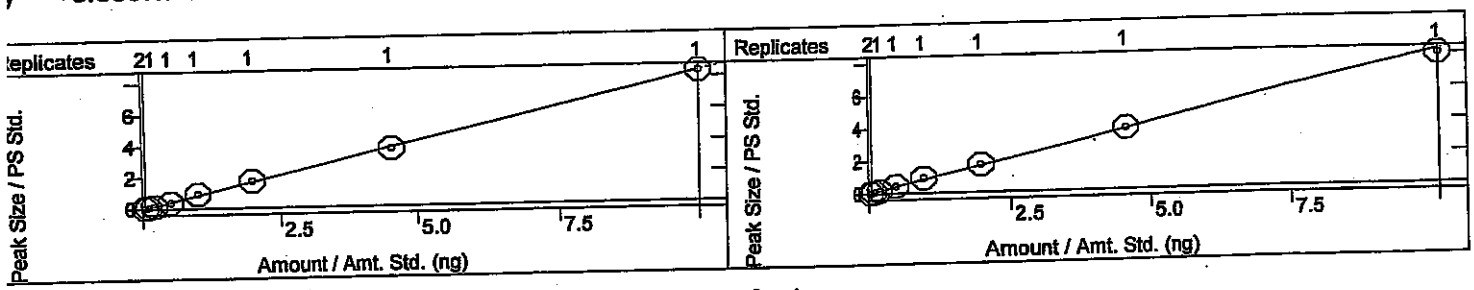
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD fit



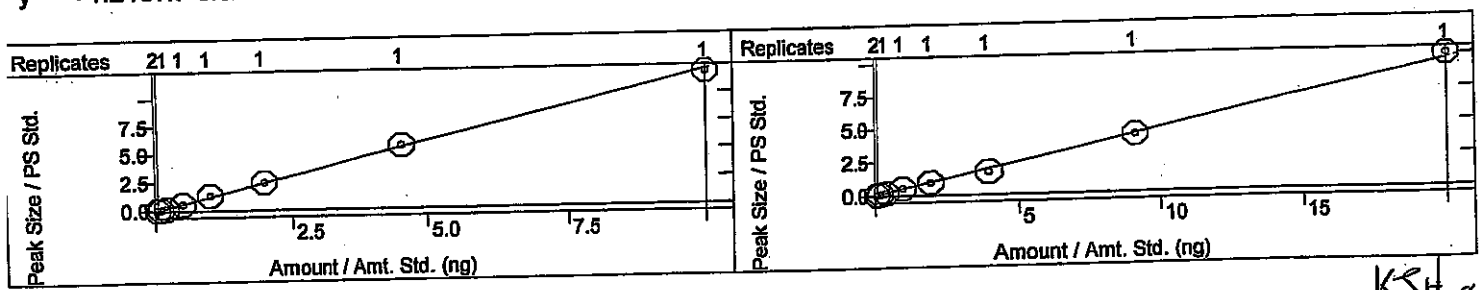
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

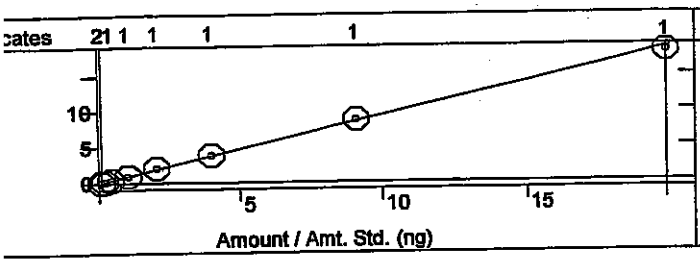
Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



KSH 8/4/14

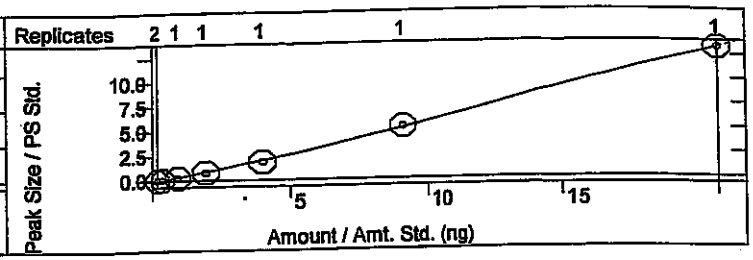
ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
ıp. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

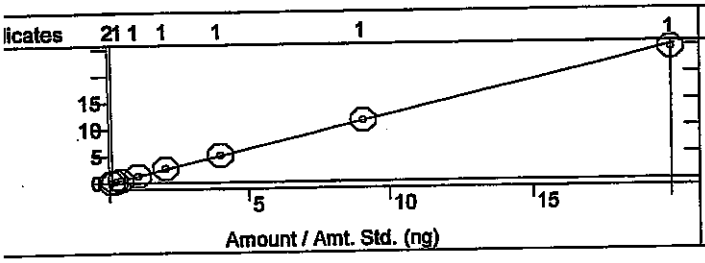


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

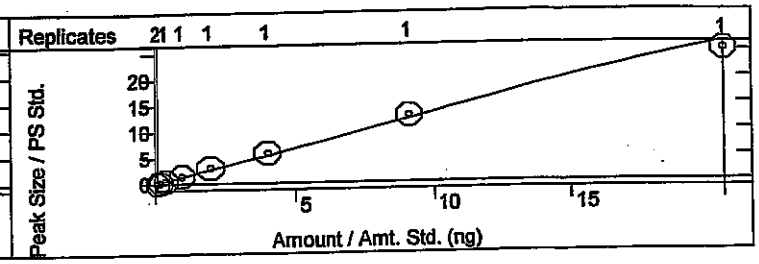
CPD fit



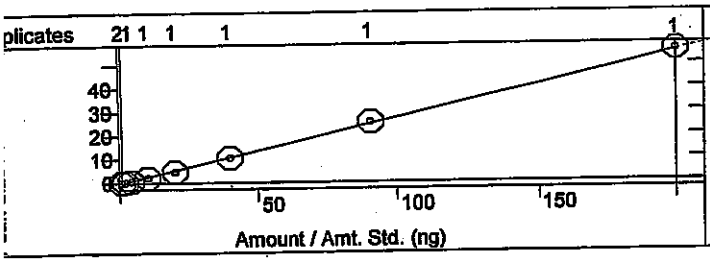
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
: +1.2503x +0.0152



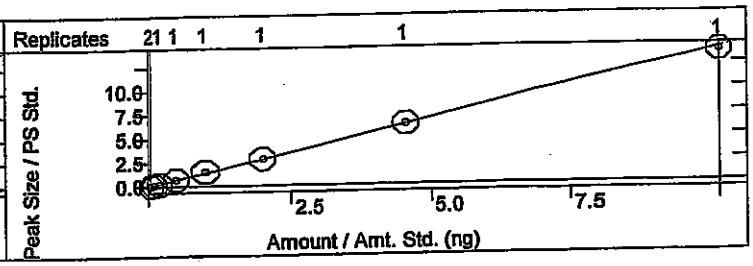
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



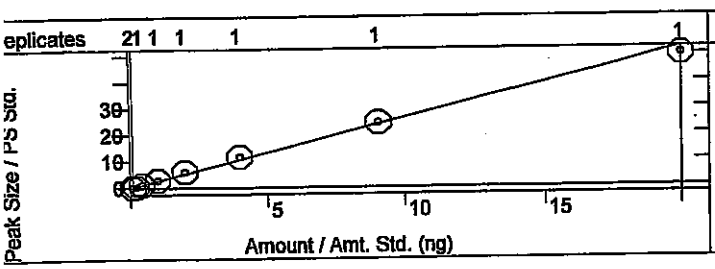
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051



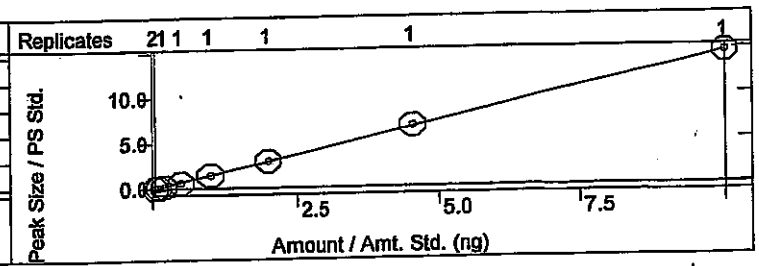
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
/ = +2.6347x -0.0155



1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489

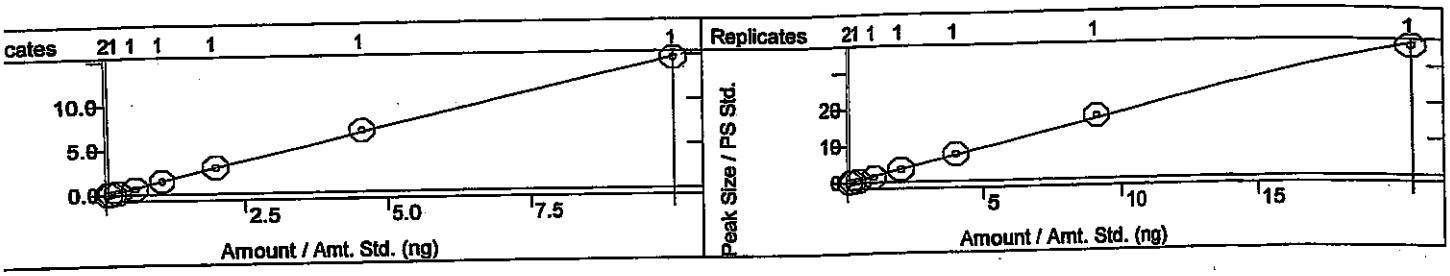


KSH 8/4/14

ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

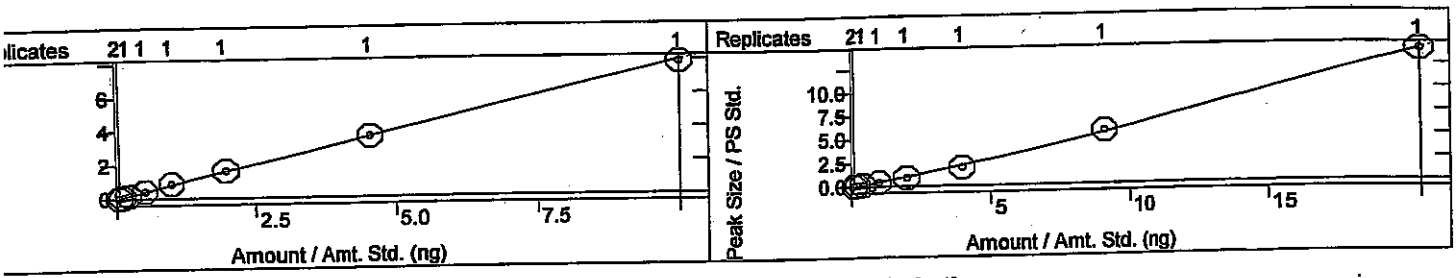
ihylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278

Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



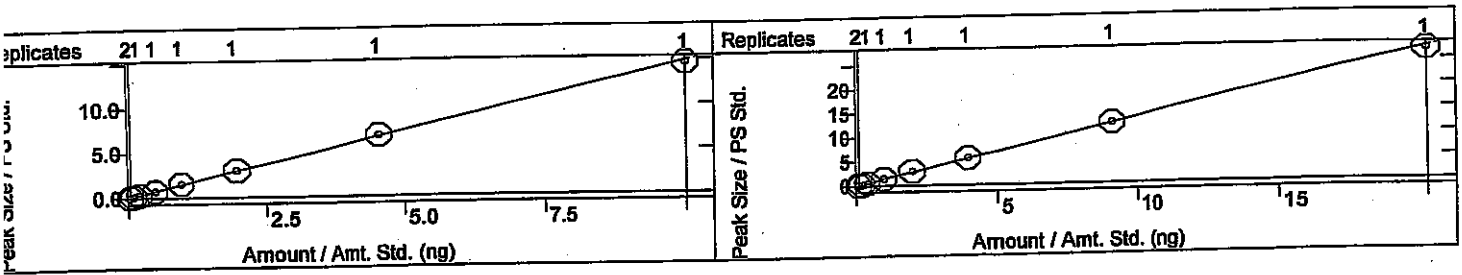
2-Dichloropropane
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



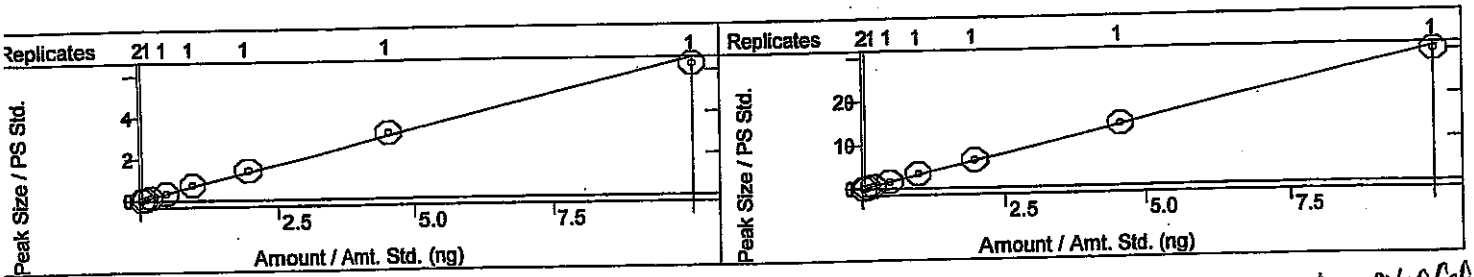
,1,1-Trichloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

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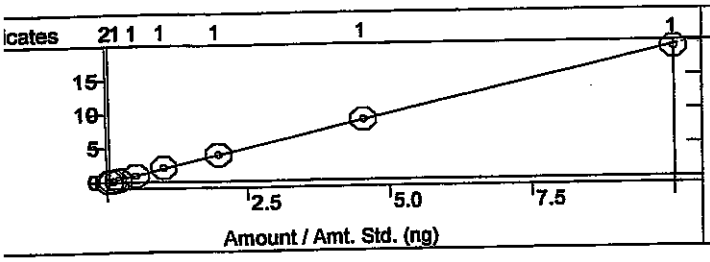
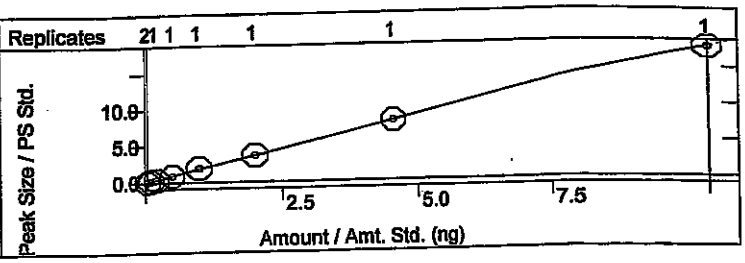
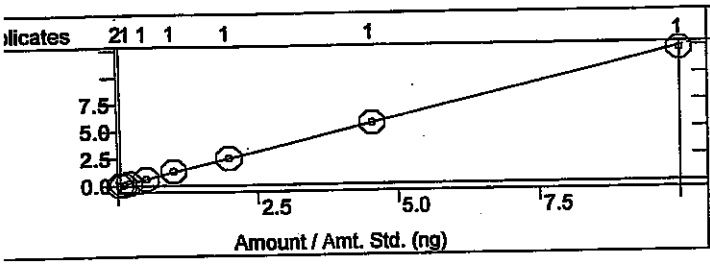
-1,2-DCE
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226



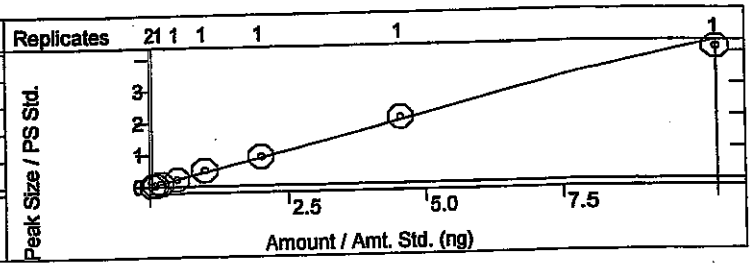
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



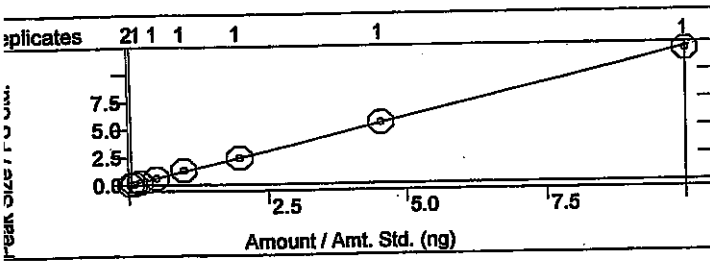
ıloroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
= +1.2389x -0.0082



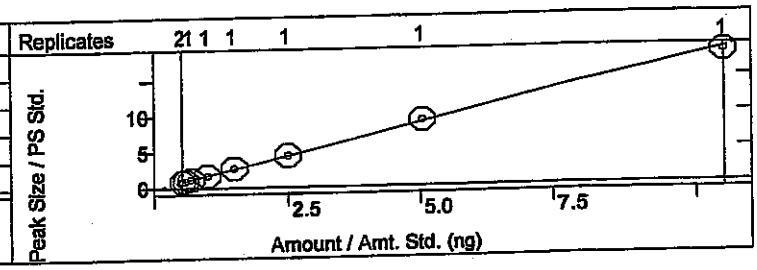
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



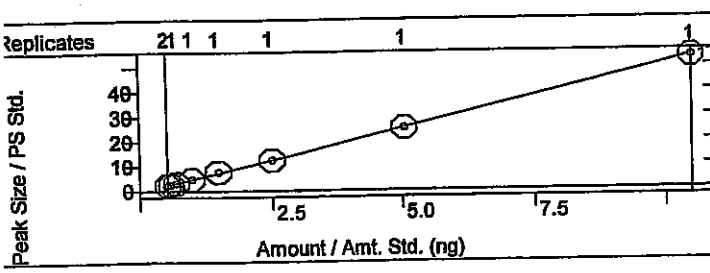
richloroethene (TCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034



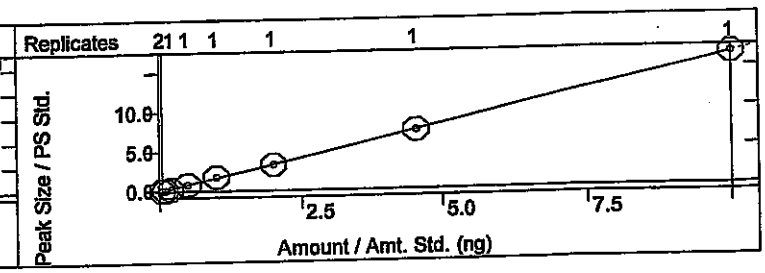
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
x Measurement:	Area	Calibration Type:	Internal Standard Analysis

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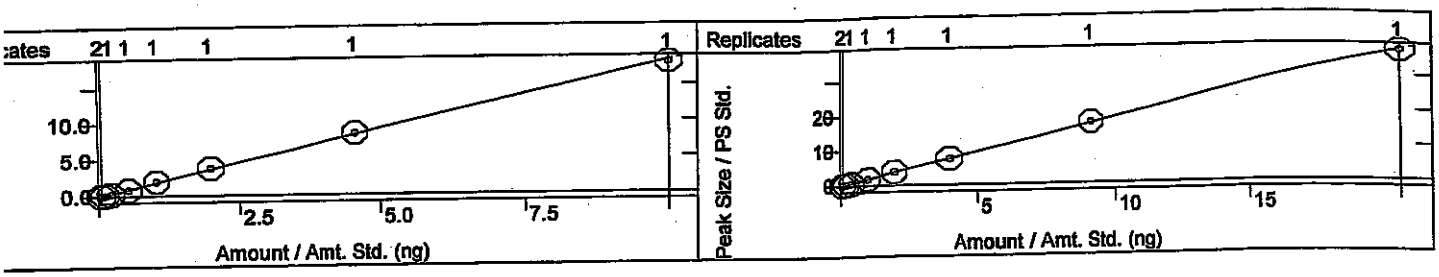
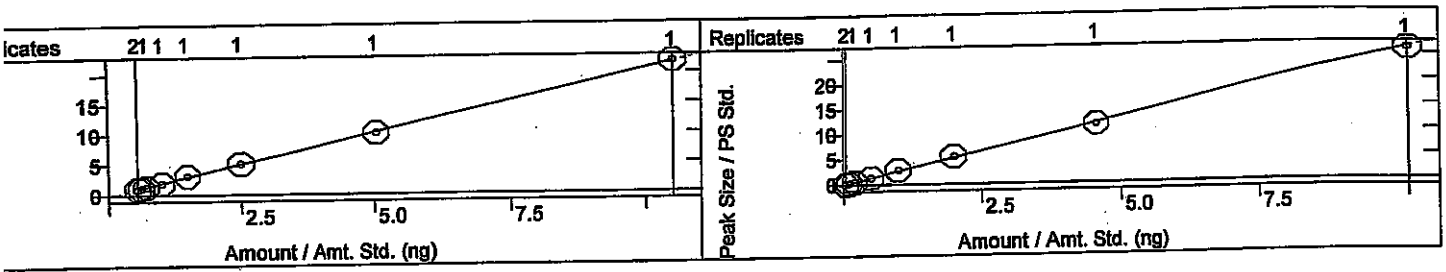
Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



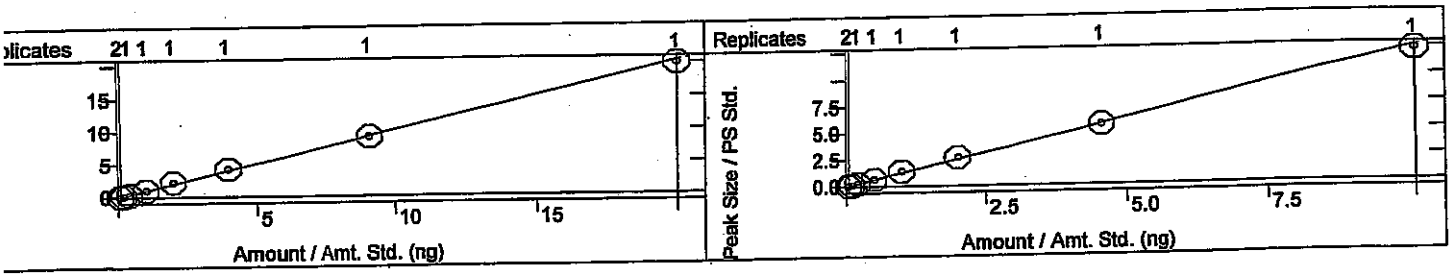
uene-d8
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
+2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



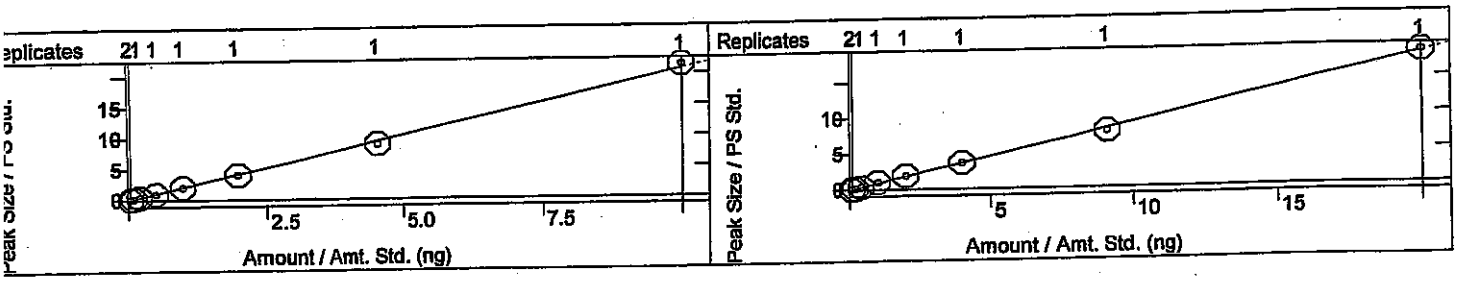
Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
= +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

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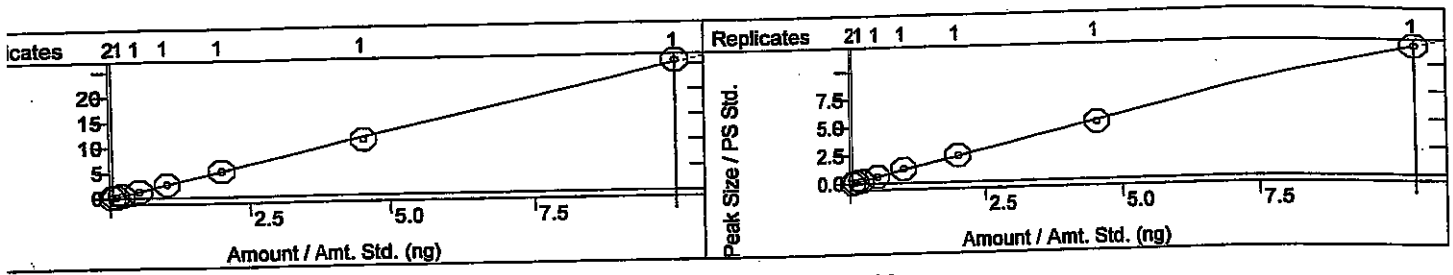
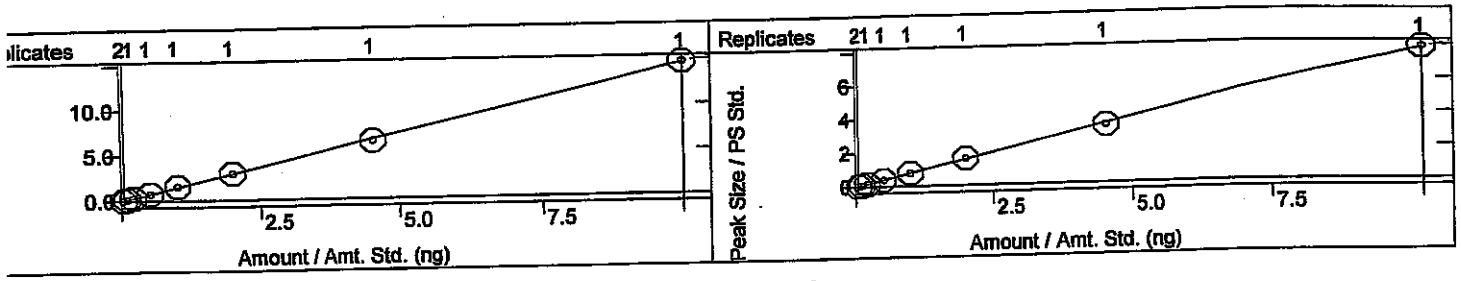
›modichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



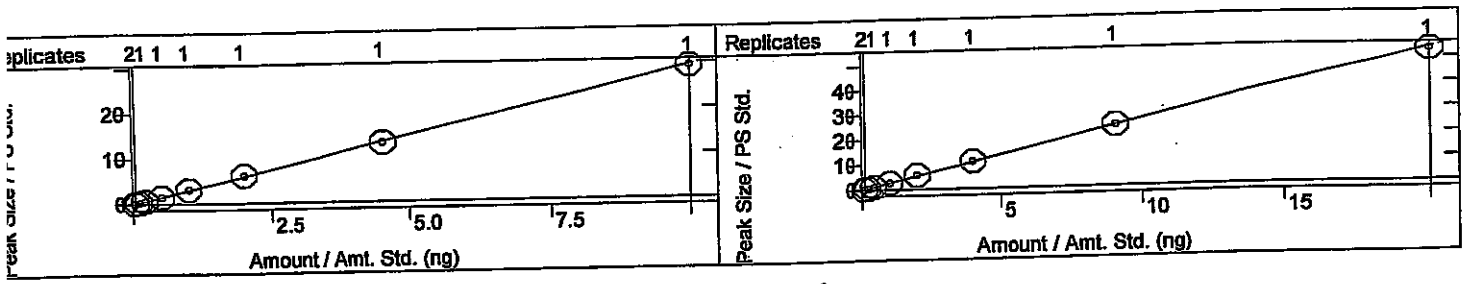
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



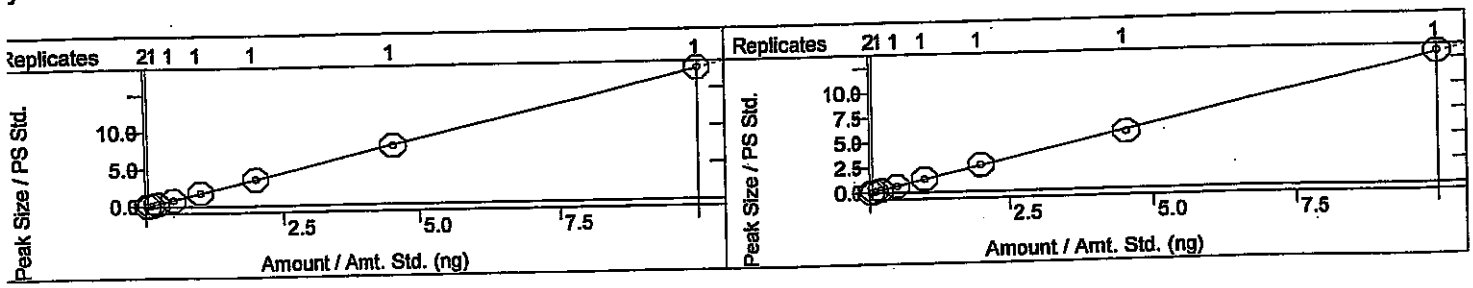
thylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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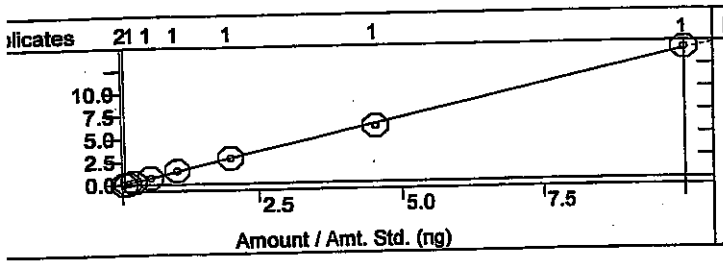
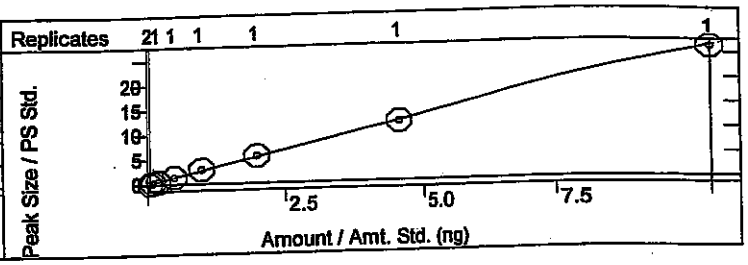
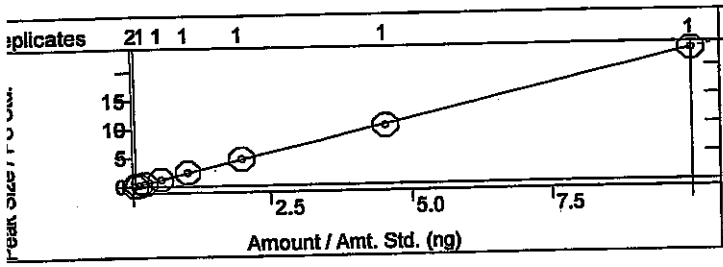
2-Dibromoethane (EDB)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



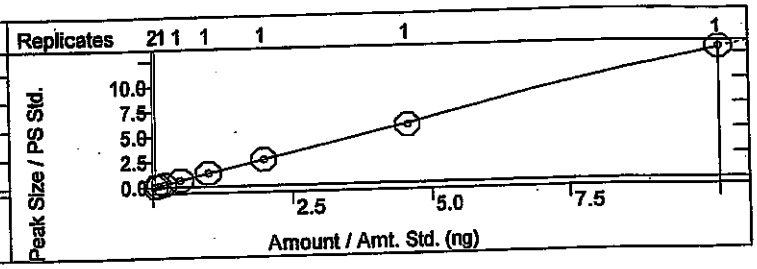
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



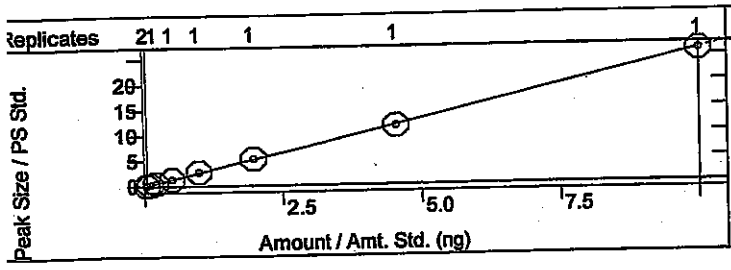
,1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016



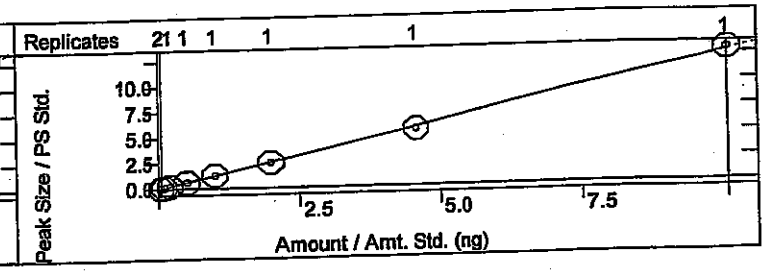
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



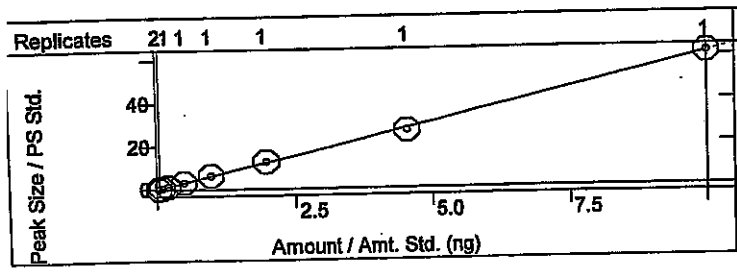
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035



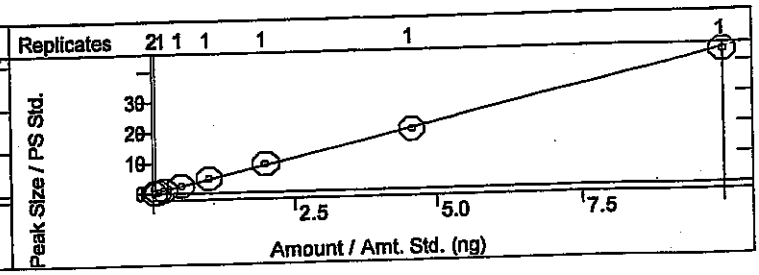
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

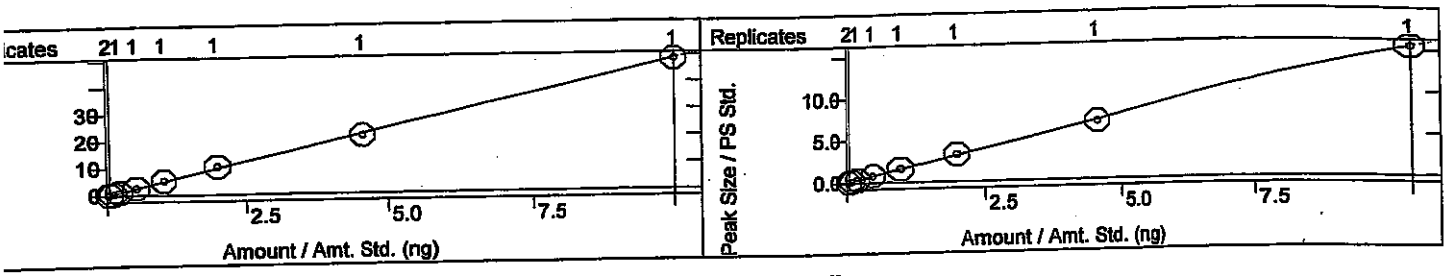


hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

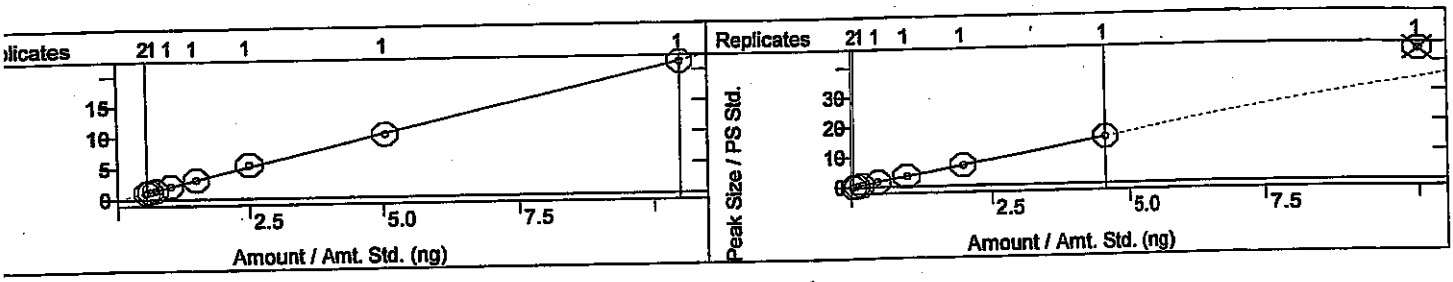
-Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



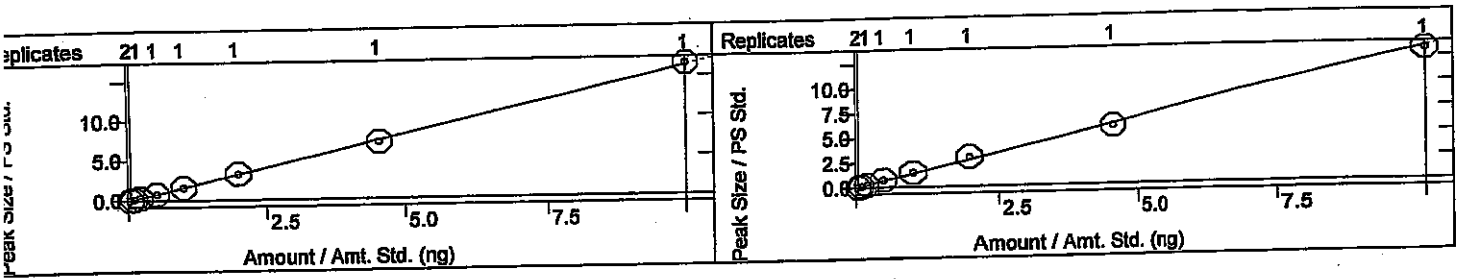
Bromofluorobenzene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



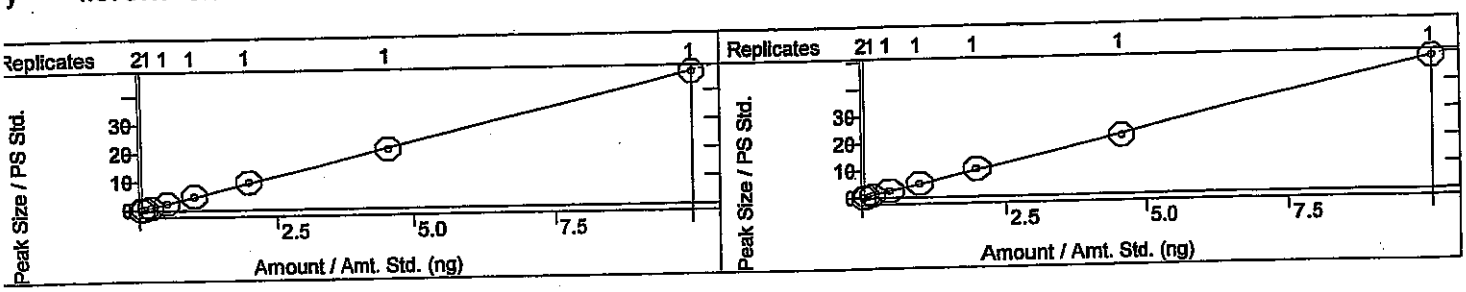
-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

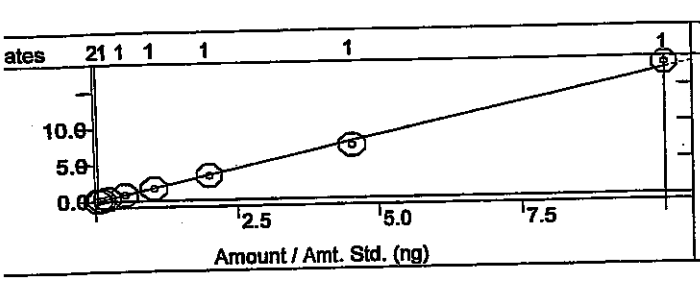
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045



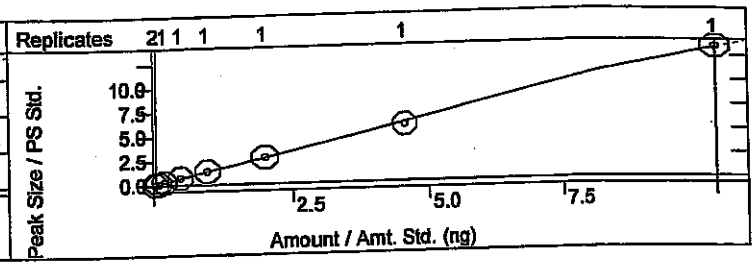
od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ole List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ience:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/11/14

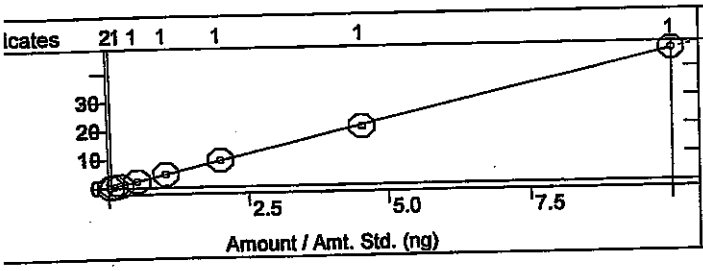
noform
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156



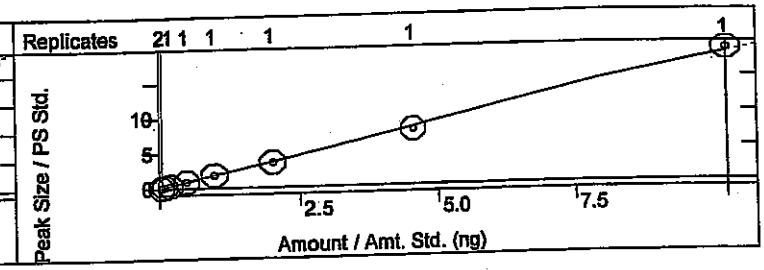
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



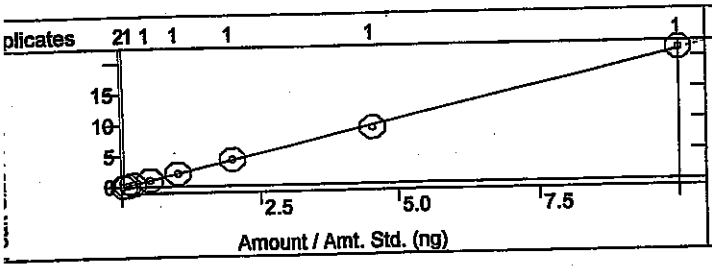
lutylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548



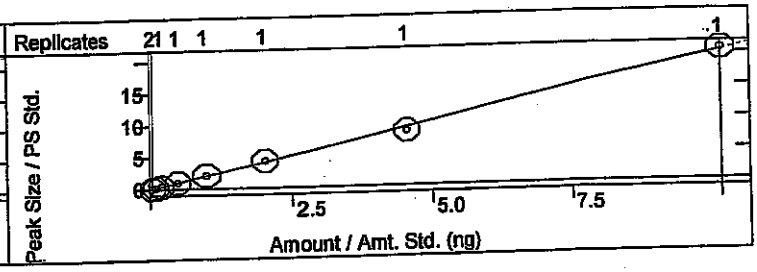
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



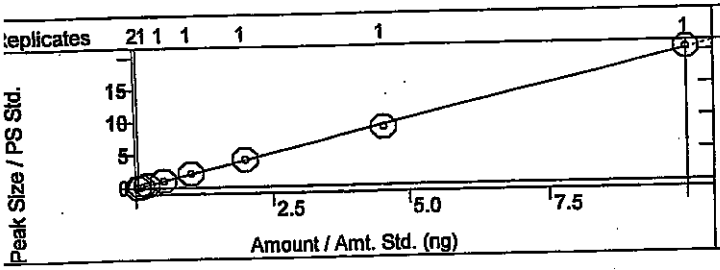
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059



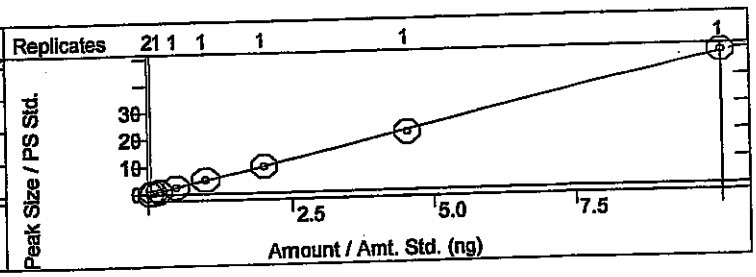
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



l,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
y = +2.0262x +0.0044



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

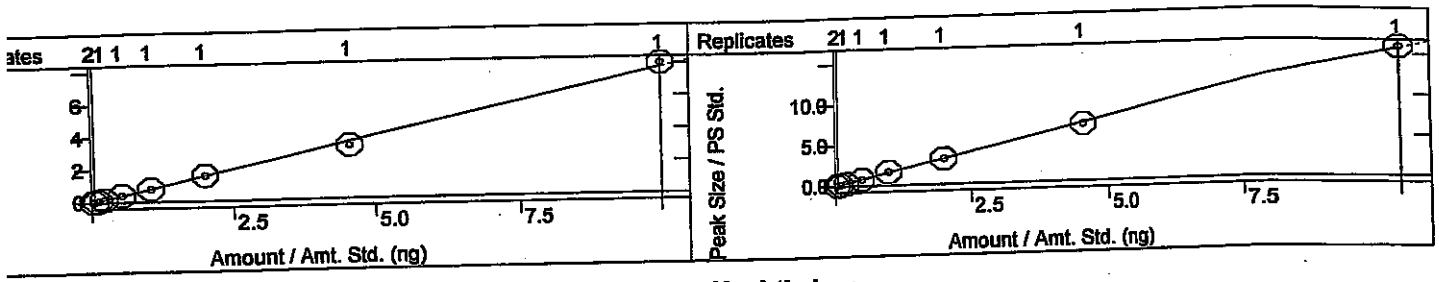


)d:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
)le List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

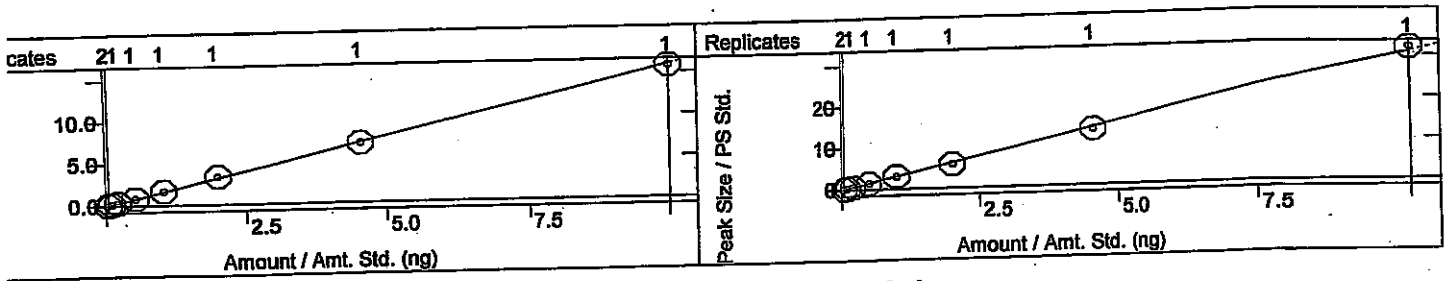
)ibromo-3-chloropropane
'e Fit: Linear, Origin: Ignore, Weight: 1/X
). Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



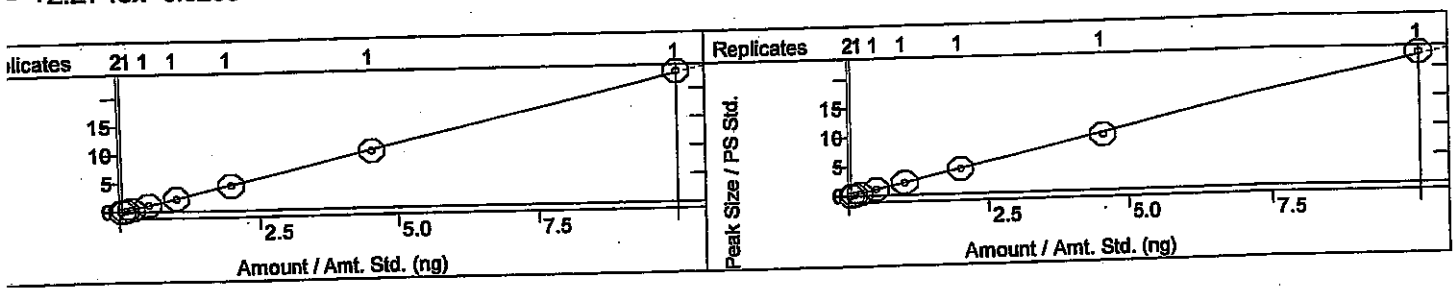
3-Trichlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ep. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



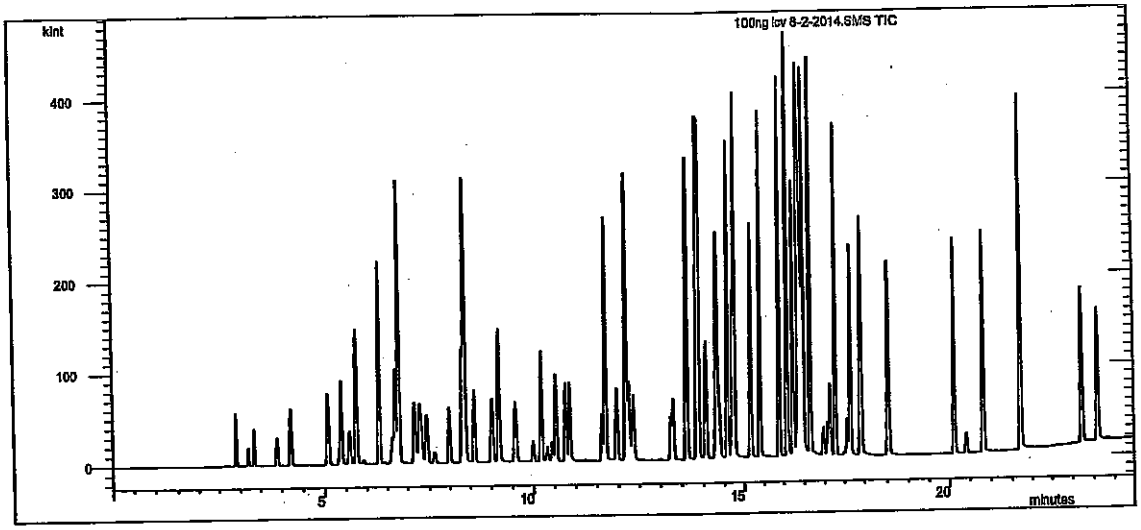
Methylnaphthalene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

ian Star Workstation - Generic SampleList Sun Jul 06 ...

pleList: C:\VarianWS\070614v.smp

ated: Sun Jul 06 15:00:06 2014
ified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: AA 7-6-14
1st Review By: AA 7-7-14
QA'd By: JNB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL: 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7/7/14

JB JB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
										Average %RSD	20.6		

AT 7-7-14

SB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3)	BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ WB 7/8/14

Analyst: RAA

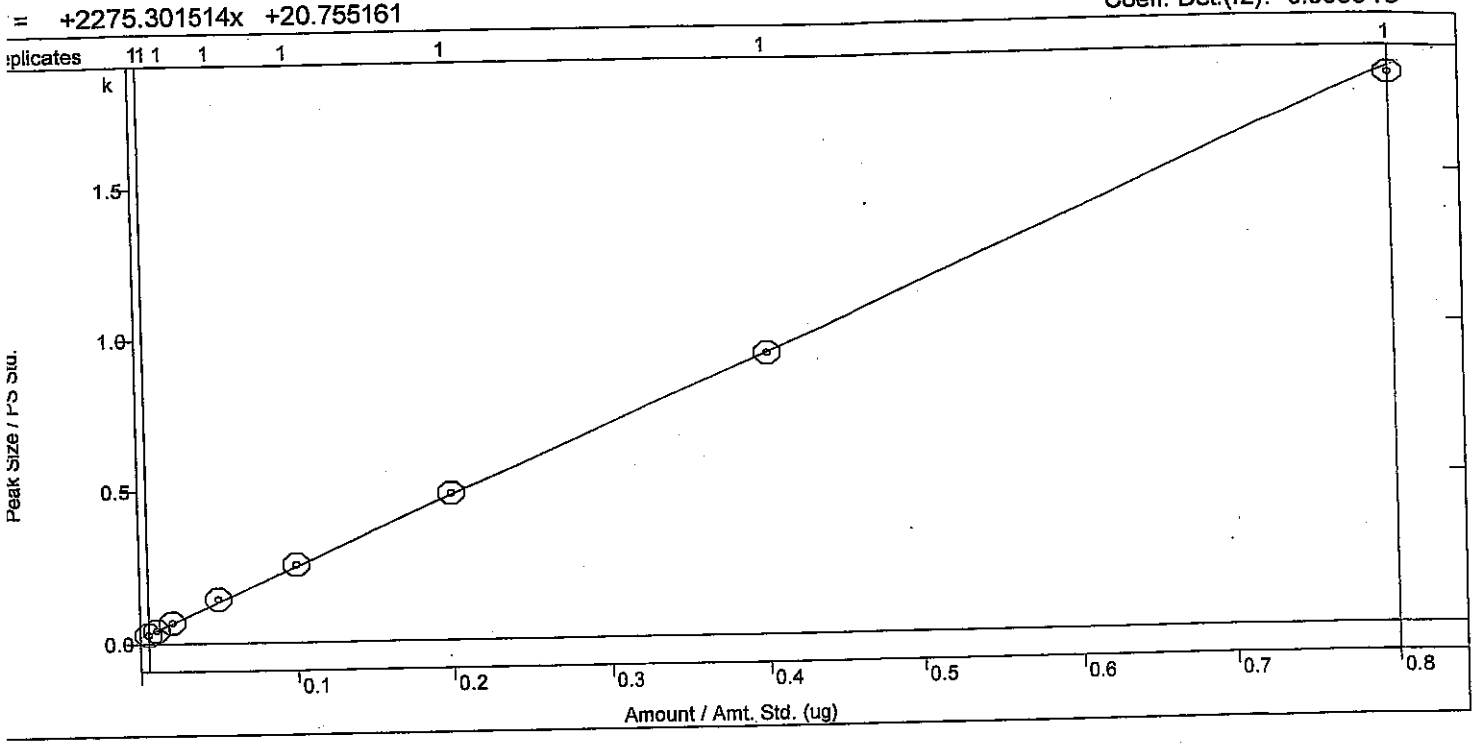
alibration Curves Report

ethod:	c:\varianws\methods\070614v gro.mth		
ecalc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ample List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

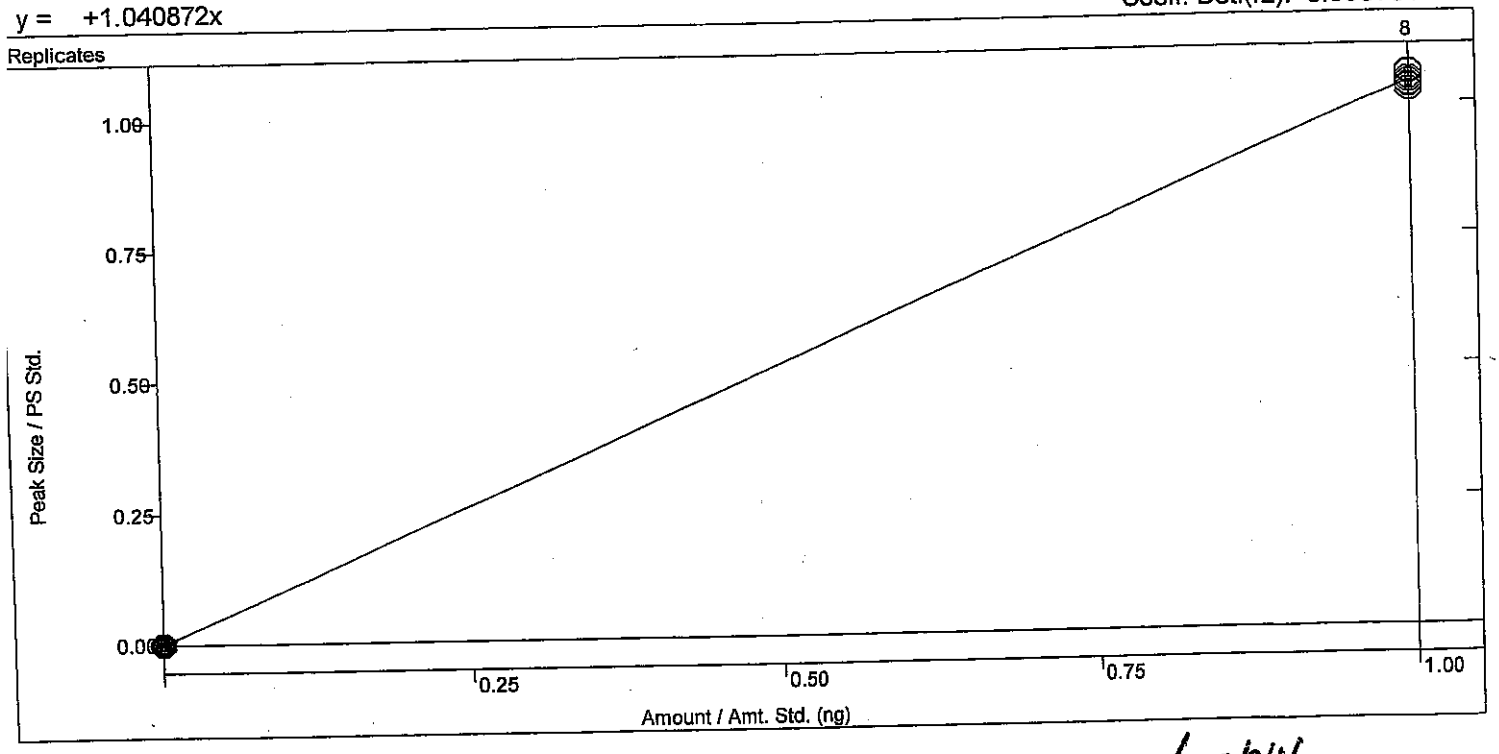
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JJB 7/8/14

WL-3

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408E34**
Date Reported:

Adam 9/2/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408E34

Lab ID: 1408E34-001
Client Sample ID: FFOR-CF-0052

Collection Date: 08/27/14
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Aniline	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Anthracene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Carbazole	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Chrysene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15010	08/29/14 10:56:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Lab ID: 1408E34-002
Client Sample ID: FFOR-CF-0053
Collection Date: 08/27/14
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Aniline	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Anthracene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Benz(a)anthracene	0.15	0.21	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Benzo(a)pyrene	0.070	0.21	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Benzo(b)fluoranthene	0.41	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Benzo(g,h,i)perylene	0.11	0.21	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Benzo(k)fluoranthene	0.11	0.21	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Chrysene	0.23	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Di-n-butyl phthalate	0.076	0.53	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Dibenzofuran	0.28	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408E34

Comment: DUE 09/02/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	0.65	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Fluorene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Indeno(1,2,3-cd)pyrene	0.12	0.21	J	mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Isophorone	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2-Methylnaphthalene	6.2	0.43		mg/Kg-dry	2	15010	08/29/14 12:54:28 PM
2-Methylphenol	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Naphthalene	4.2	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Nitroaniline	ND	0.43		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Nitrobenzene	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Pentachlorophenol	ND	0.43		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Phenanthrene	0.59	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Phenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Pyrene	0.69	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Pyridine	ND	0.53		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15010	08/29/14 12:24:13 PM
Surr: 2-Fluorophenol	57.0	21-111		%REC	1	15010	08/29/14 12:24:13 PM
Surr: Phenol-d5	82.5	23.1-117		%REC	1	15010	08/29/14 12:24:13 PM
Surr: 2,4,6-Tribromophenol	85.3	22.7-88.9		%REC	1	15010	08/29/14 12:24:13 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15010	08/29/14 12:24:13 PM
Surr: 2-Fluorobiphenyl	84.8	21.2-129		%REC	1	15010	08/29/14 12:24:13 PM
Surr: 4-Terphenyl-d14	87.0	39.4-107		%REC	1	15010	08/29/14 12:24:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Text: [illegible]

****

ne	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-827.0	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
.0	50ppm crv	1	below	8	1.0
	Notes st110-0594				
.1	80ppm crv	1	below	9	1.0
	Notes st110-0595				
.2	100ppm crv	1	below	10	1.0
	Notes st110-0596				
.3	120ppm crv	1	below	11	1.0
	Notes st110-0597				
.4	50ppm icv	1	below	12	1.0
	Notes st110-0599				
.5					

dam
4/28/14

4.28.14

tory for Data Files: C:\VarianWS\data

Data File Names: %s

e and update a new RecalcList: c:\varianws\042514crv.rcl.

Instrument: ELMO Date: 9/23/11

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

jdm 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

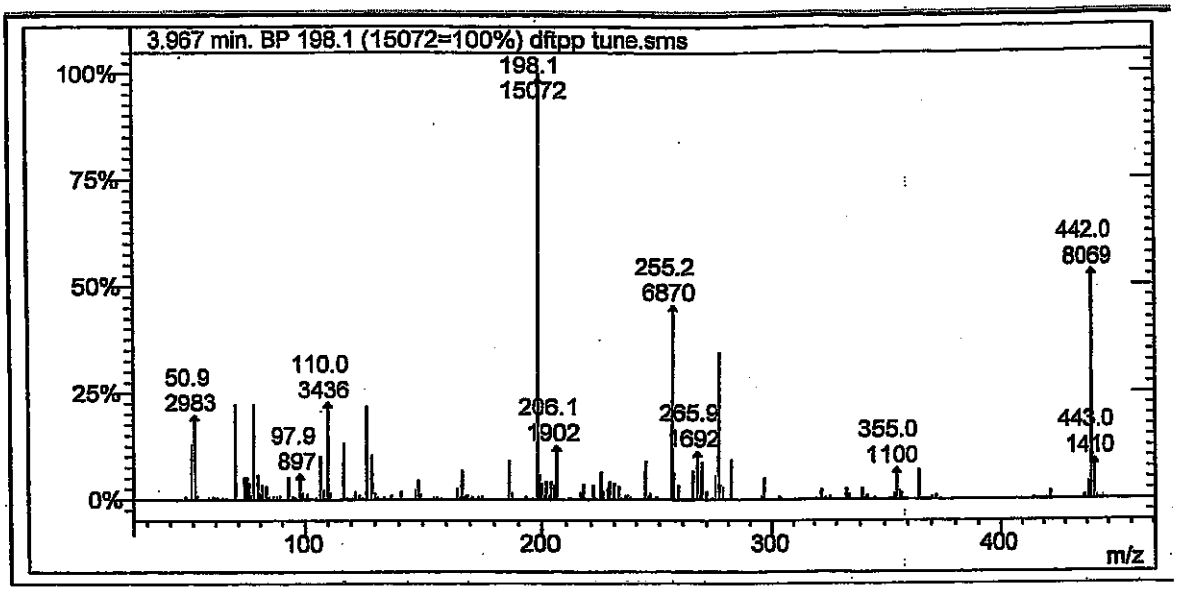
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

Jdm 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

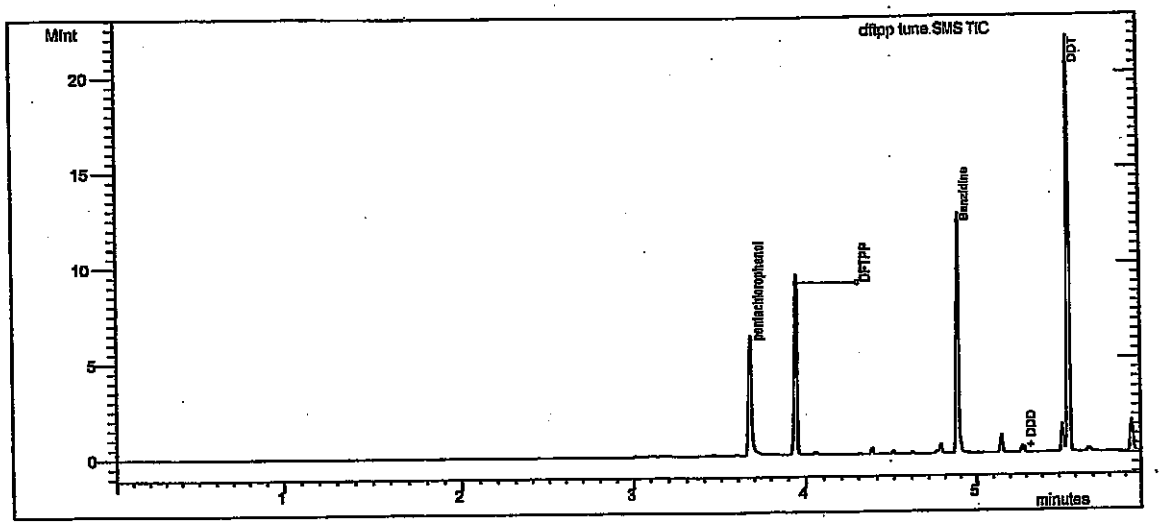
Jdan 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

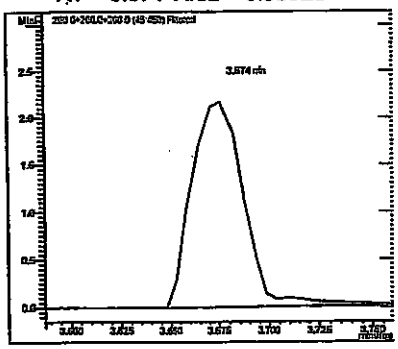
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

✓ 4-28-14

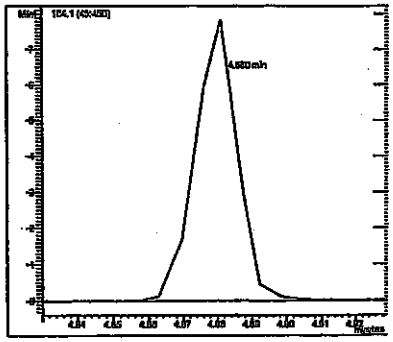
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

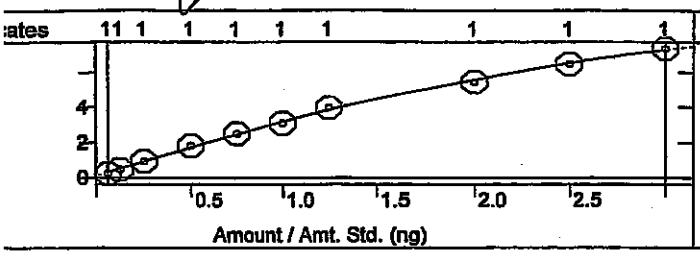
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

dlm 4/28/14

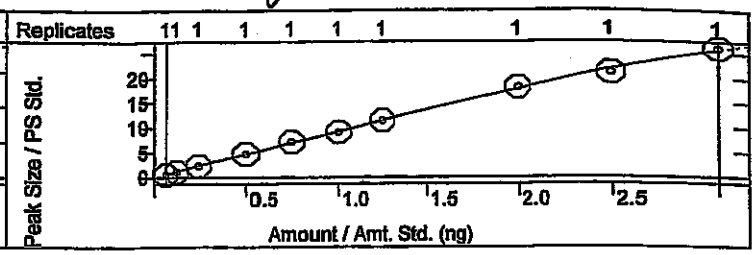
4-28-14

ıple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

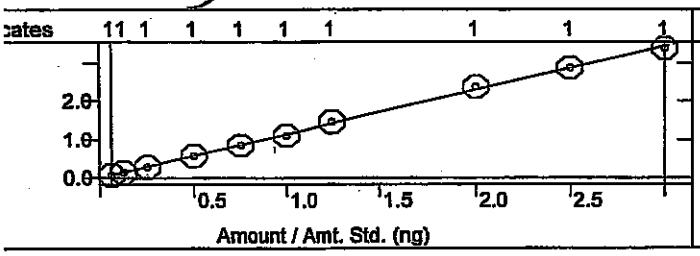
itrosodimethylamine
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
-0.3412x2 +3.4265x +0.0884



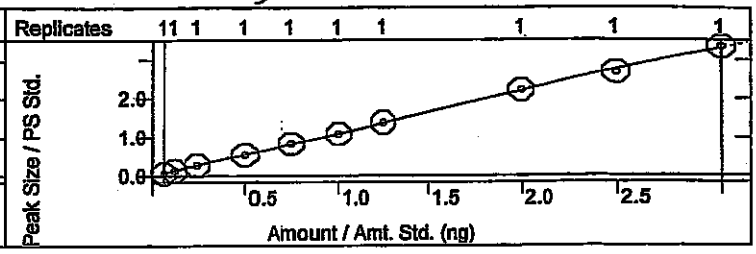
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



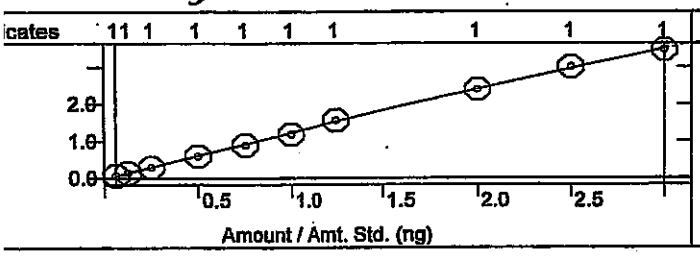
luorophenol
ve Fit: Linear, Origin: Ignore, Weight: None
ıp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
+1.1454x +0.0021



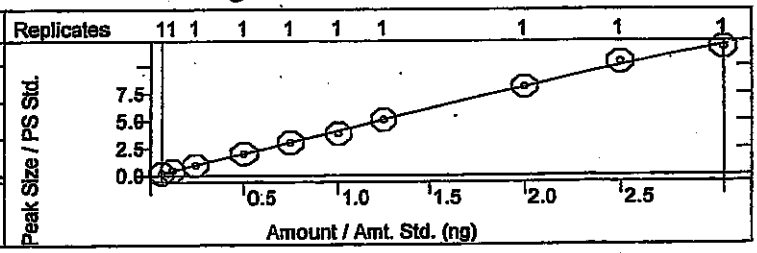
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



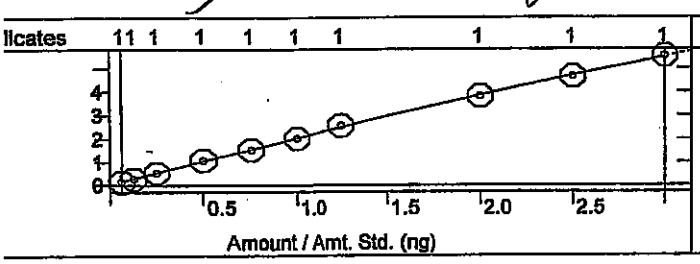
ənol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
-0.0409x2 +1.2967x -0.0251



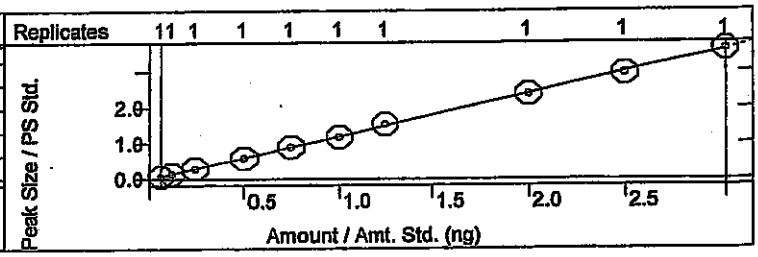
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



s(2-chloroethyl)ether
ırve Fit: Quadratic, Origin: Ignore, Weight: None
ısp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
: -0.0958x2 +2.1070x +0.0242



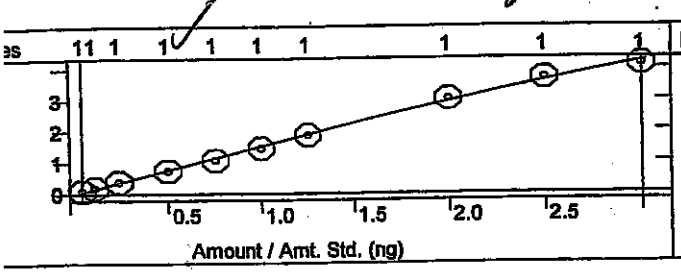
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



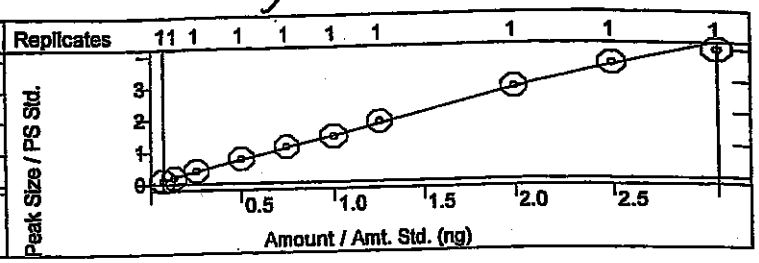
e List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
nce:	N/A	Detector:	2000 Mass Spec
orkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

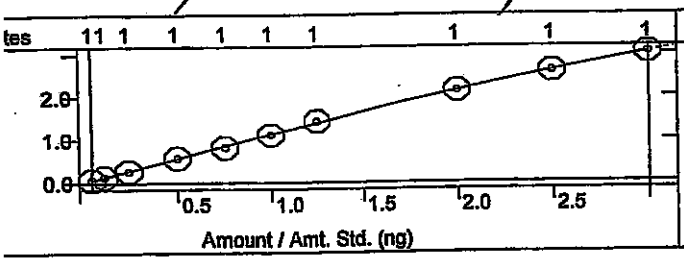
chlorobenzene
Fit: Quadratic, Origin: Ignore, Weight: None
Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
).0693x2 +1.6278x -0.0442



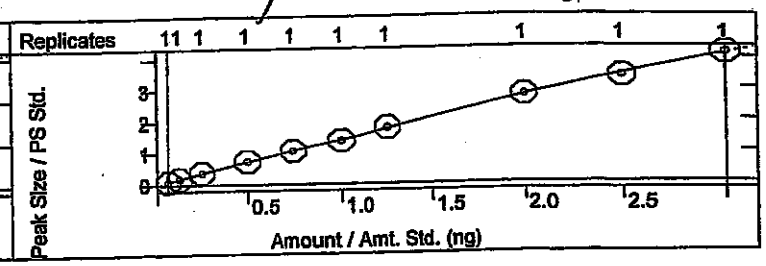
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



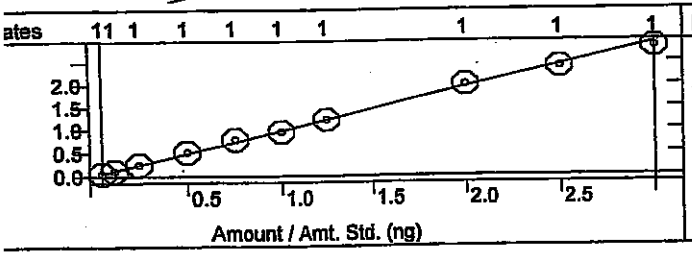
yl alcohol
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
0.0661x2 +1.2165x -0.0165



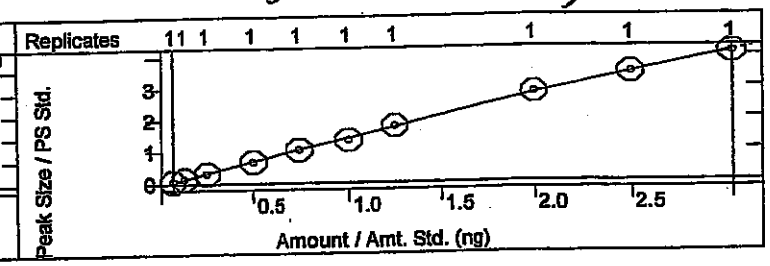
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



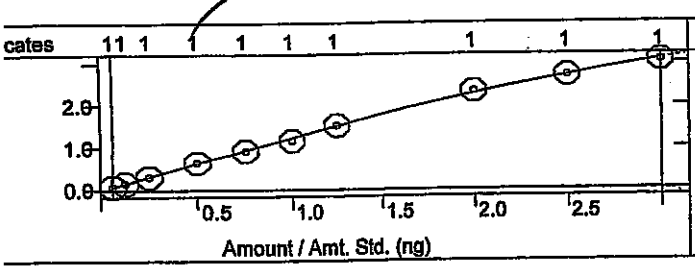
ethylphenol
ve Fit: Linear, Origin: Ignore, Weight: 1/X
o. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
+0.9716x +0.0052



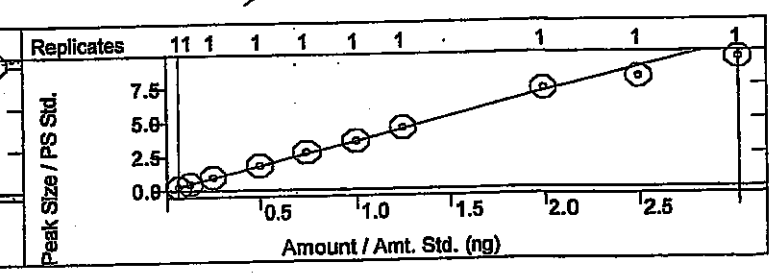
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



-Methylphenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
-0.1133x2 +1.3766x -0.0272

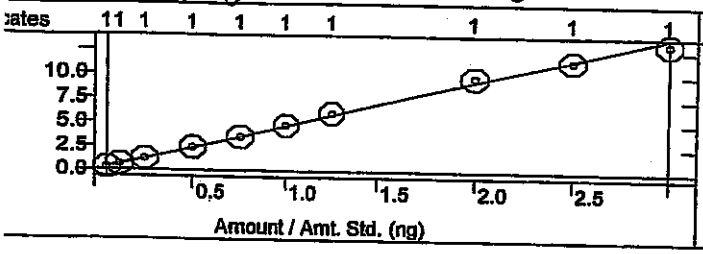


N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

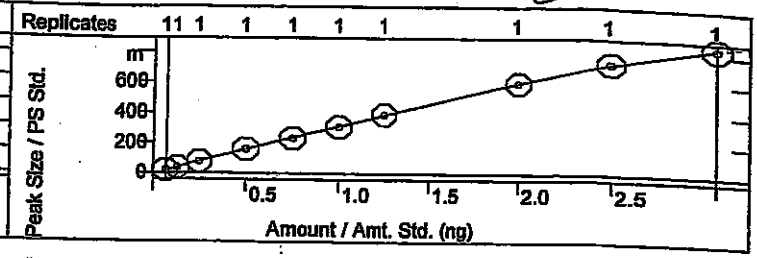


ıple List:	N/A	Last Calibration:	4/25/2014 2:36 PM
uence:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Workstation (Upgrade)		Detector:	2000 Mass Spec
k Measurement:	Area	Workstation Version:	Version 6.9
		Calibration Type:	Internal Standard Analysis

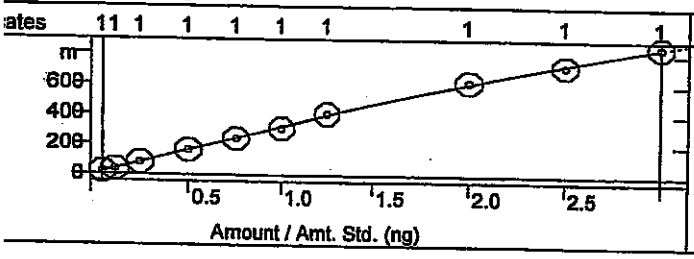
achloroethane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
+4.6167x +0.0205



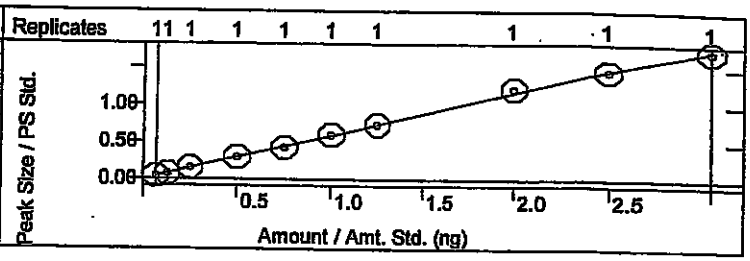
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



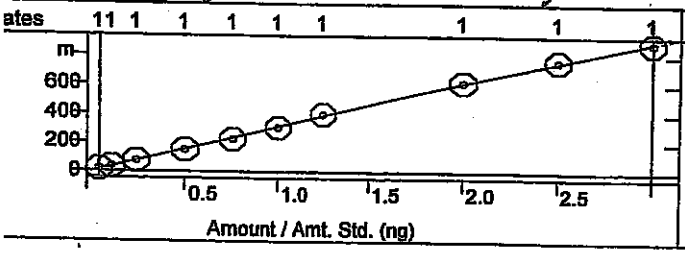
obenzene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
-0.0200x2 +0.3461x -0.0058



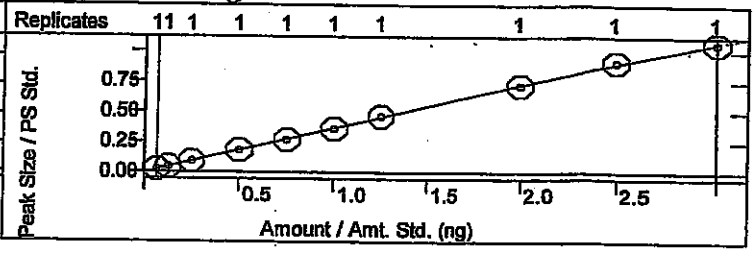
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



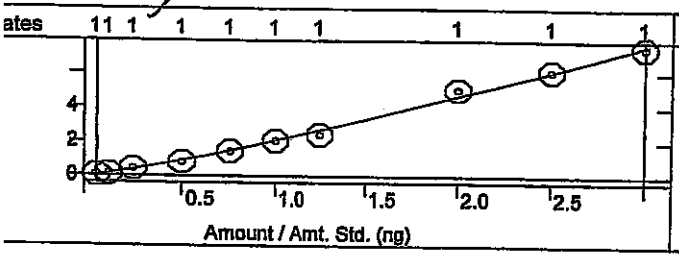
trophenol
/e Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
-0.0089x2 +0.3282x -0.0083



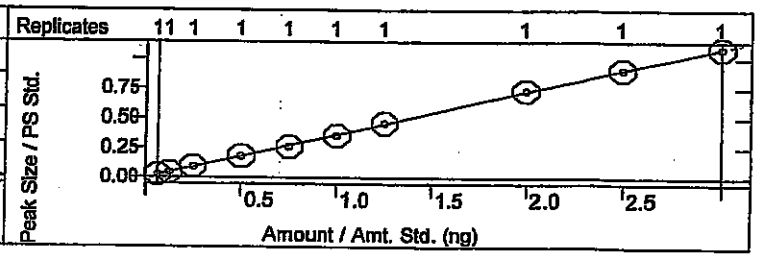
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



zoic acid
/e Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
+0.1762x2 +2.0528x -0.1534



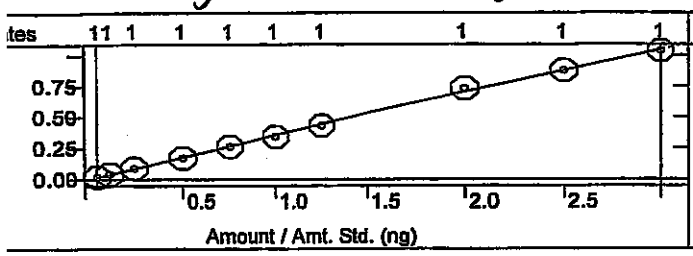
Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



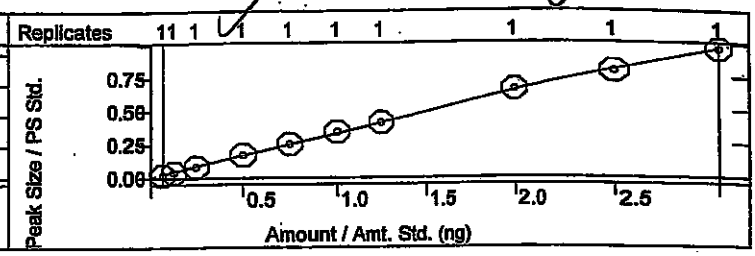
ıle List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

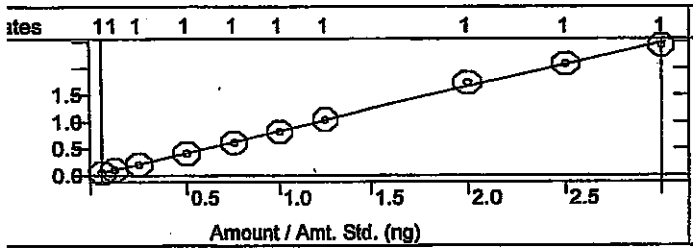
ıichlorophenol
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
0.0055x2 +0.3668x -0.0082



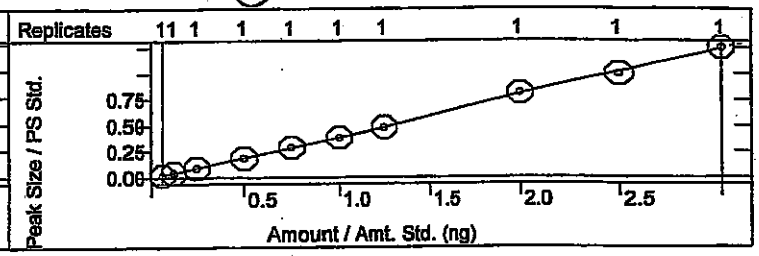
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



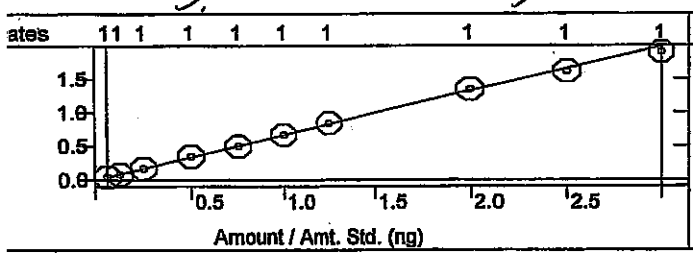
ıthalene
'e Fit: Linear, Origin: Ignore, Weight: None
). Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
+0.8263x +0.0048



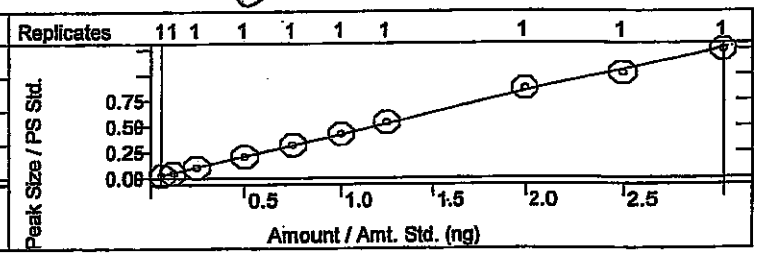
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



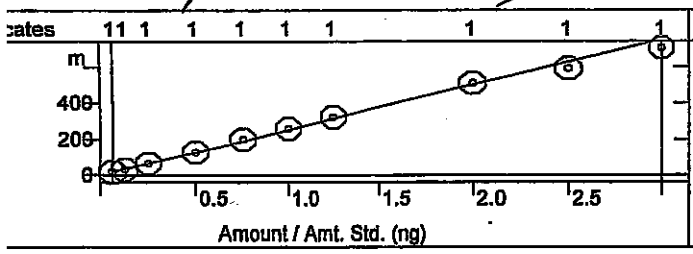
achlorobutadiene
/e Fit: Linear, Origin: Ignore, Weight: 1/X2
p. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
+0.6599x +0.0061



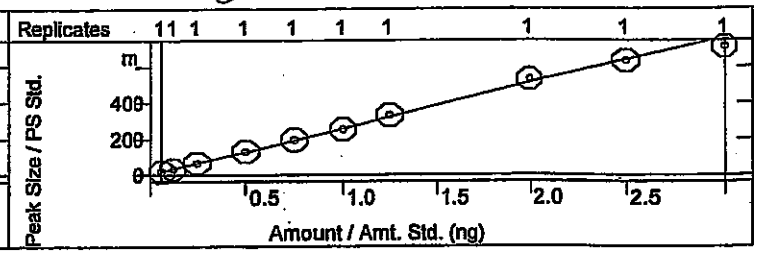
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



ethylnaphthalene
ve Fit: Linear, Origin: Ignore, Weight: 1/X2
ıp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
+0.2503x +0.0018

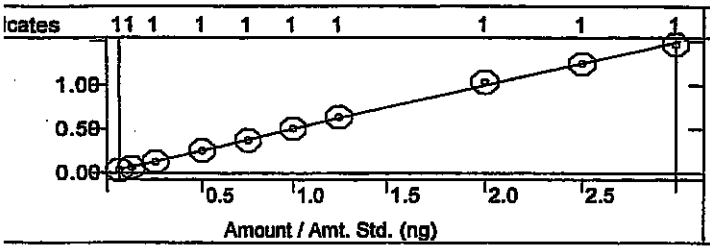


1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018

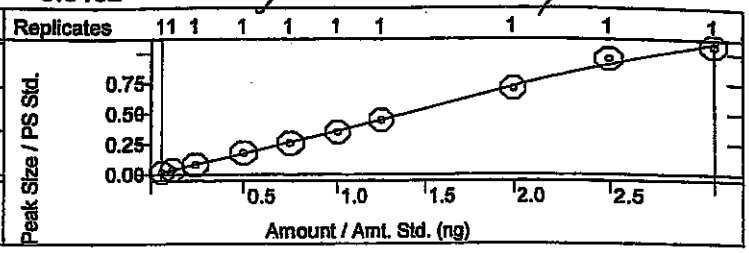


nple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

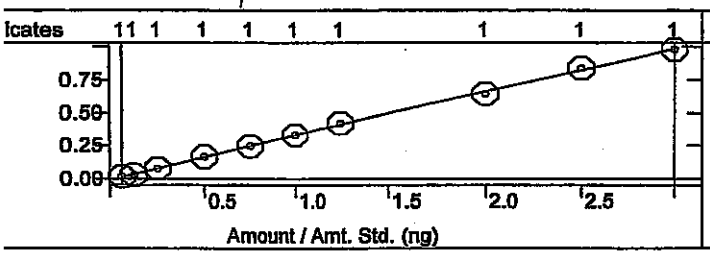
xachlorocyclopentadiene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
+0.4936x +0.0086



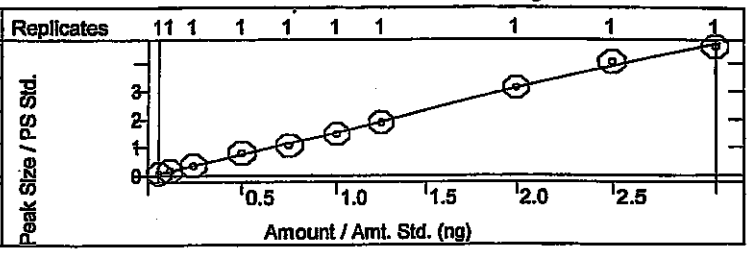
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



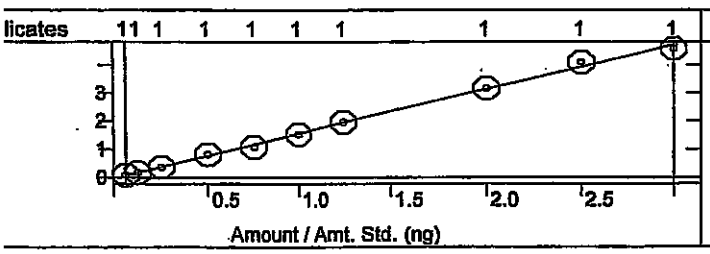
,5-Trichlorophenol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
-0.0042x2 +0.3430x -0.0068



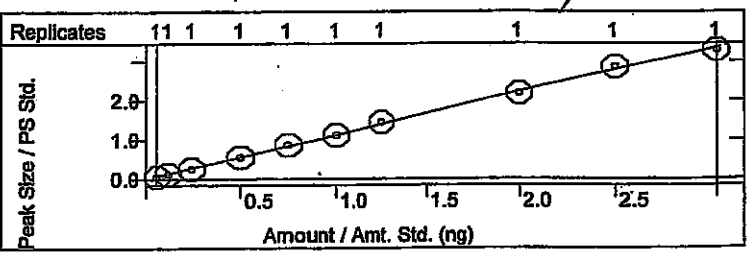
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



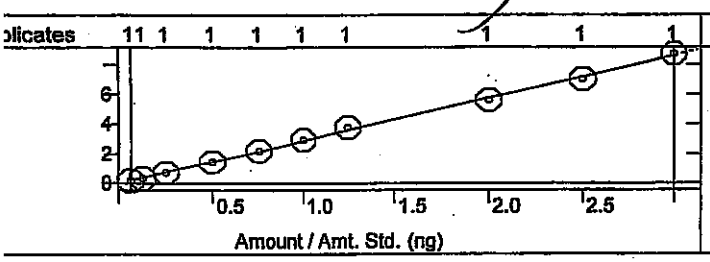
Chloronaphthalene
irve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



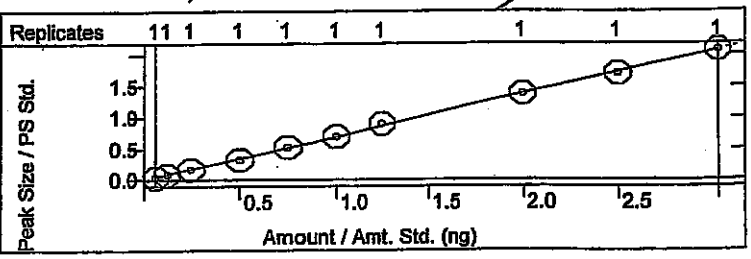
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



imethyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
= +2.8638x +0.0178



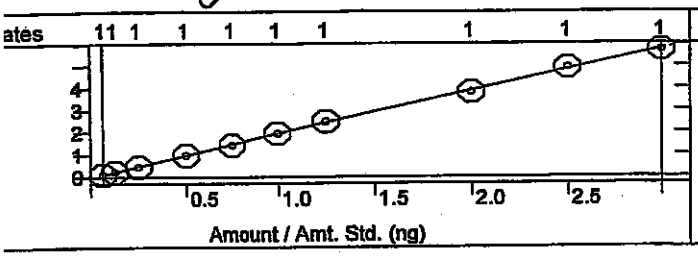
2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022

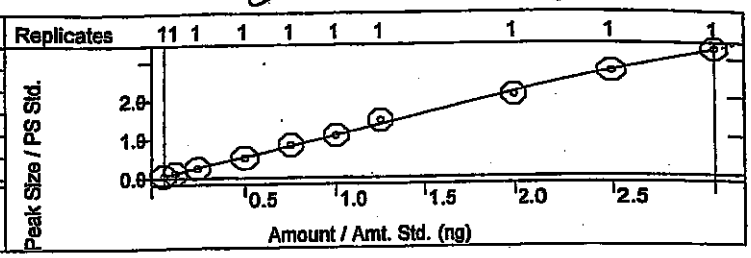


ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

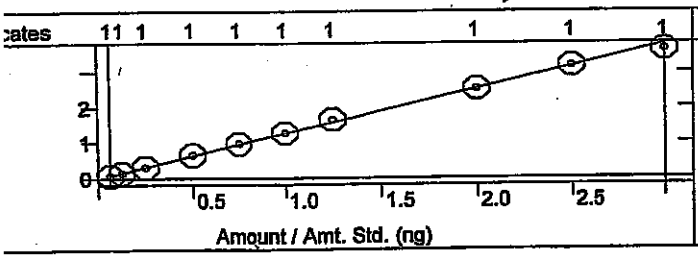
naphthylene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
-0.0224x2 +2.0006x -0.0303

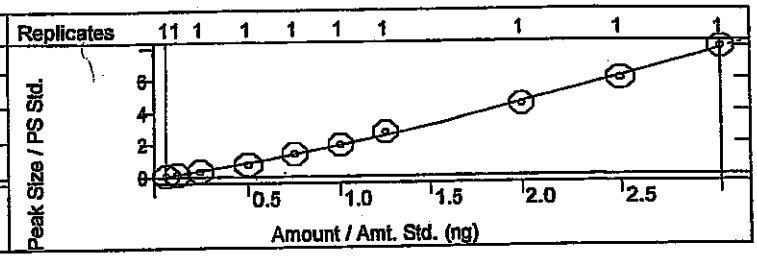




3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082

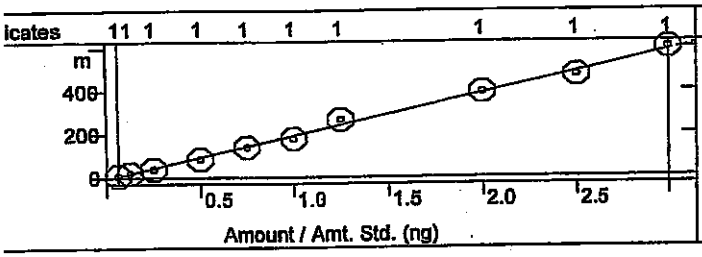
naphthene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
+1.2637x -5.2278e-4

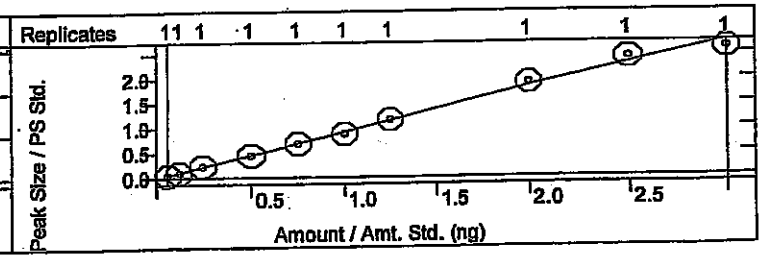




2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504

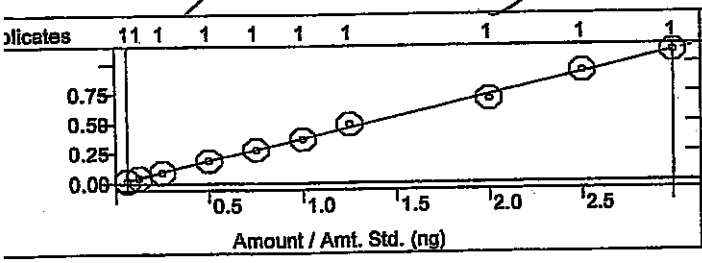
litrophenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
+0.1978x -0.0058

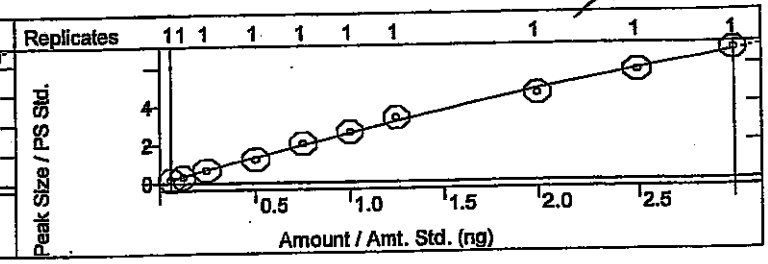




Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079

4-Dinitrotoluene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
= -0.0024x2 +0.3726x -8.6289e-4





Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097

ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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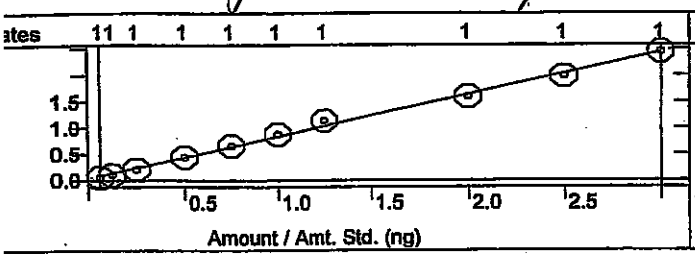
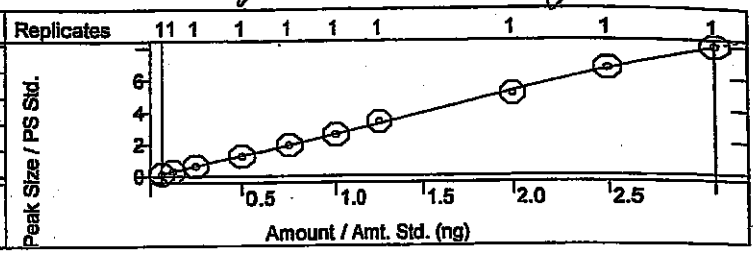
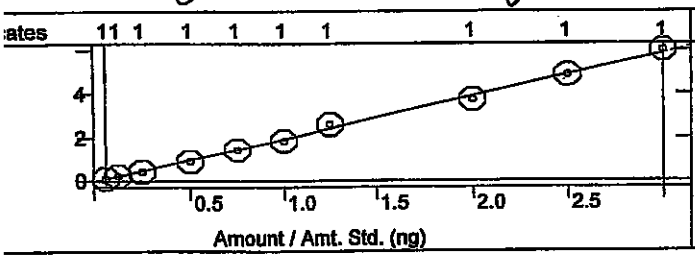
lorophenyl phenyl ether
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
+0.8008x +0.0369



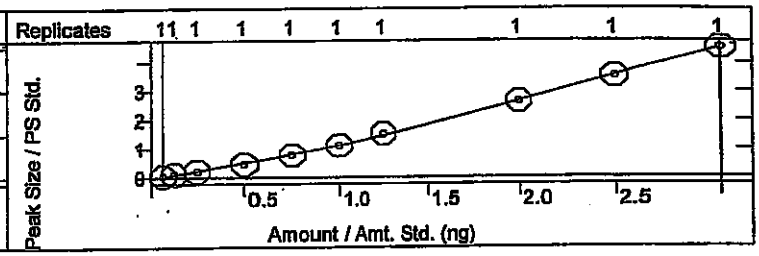
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



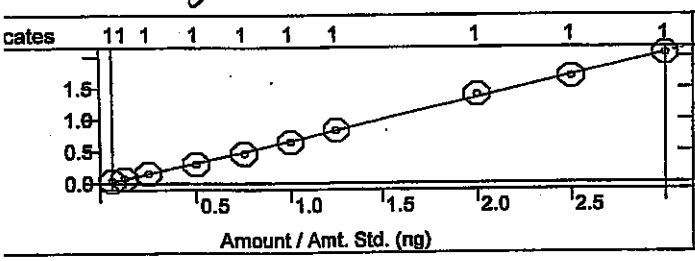
troaniline
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
+1.9592x -0.0342



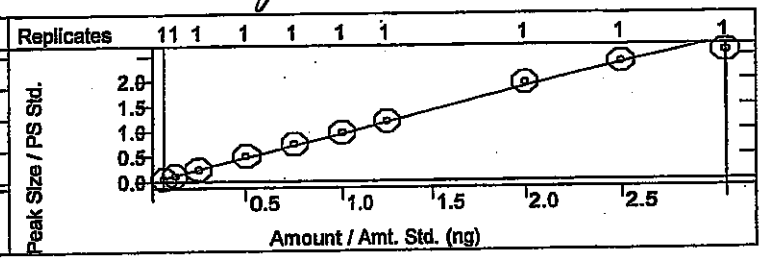
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



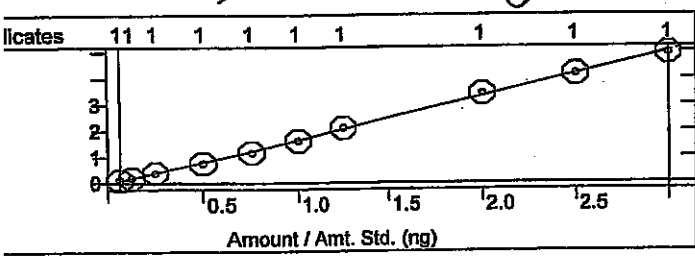
litrosodiphenylamine
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
+0.0060x2 +0.6726x -0.0178



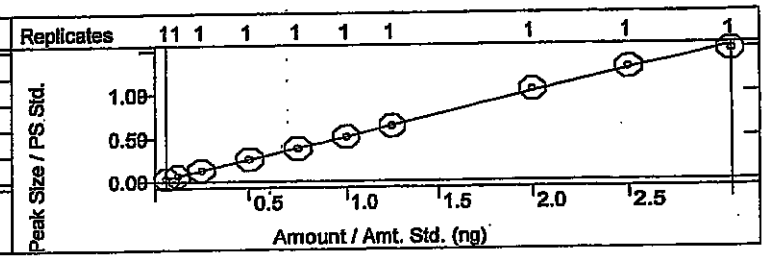
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



,6-Tribromophenol
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
: +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



c Method:	...270 042514.mm	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

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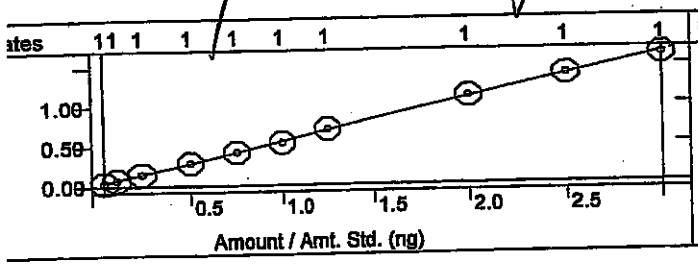
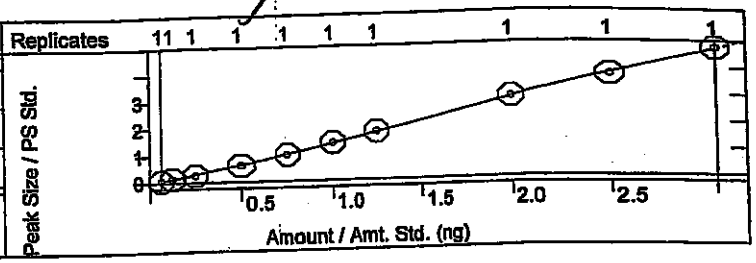
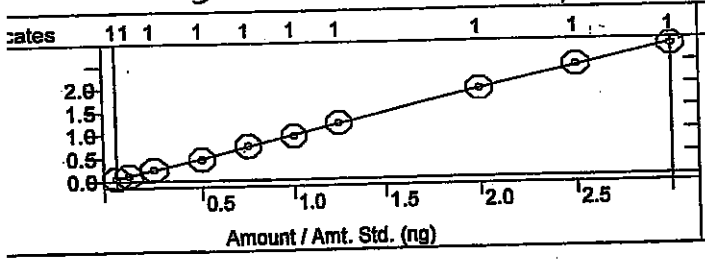
chlorobenzene
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
+0.5470x +0.0070



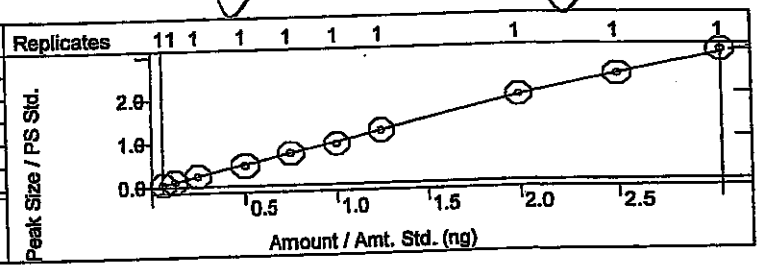
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



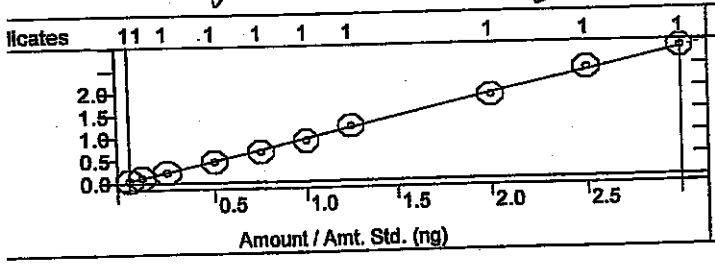
nanthrene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
+0.9606x +0.0012



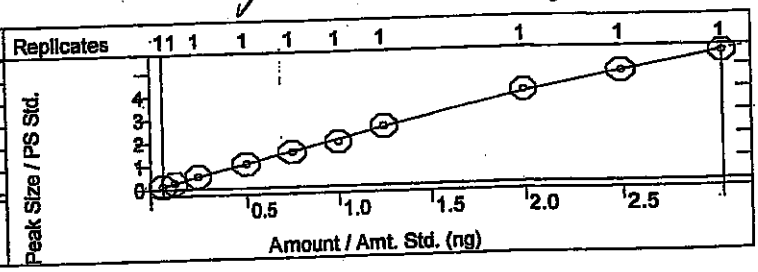
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



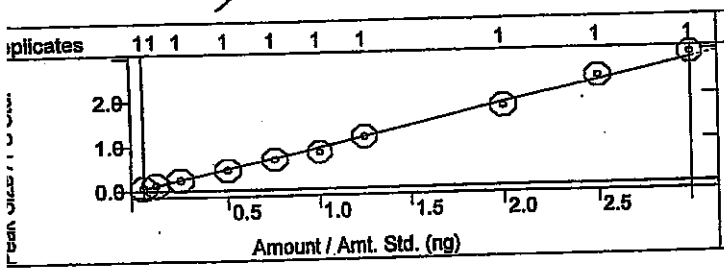
rbazole
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
+0.9547x -0.0072



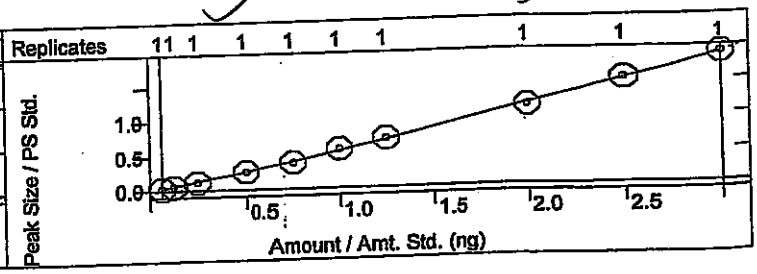
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



luoranthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
= +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



ıple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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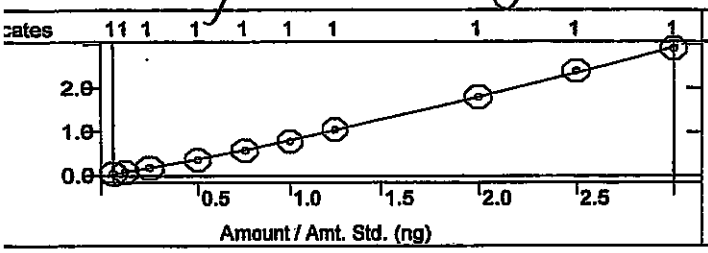
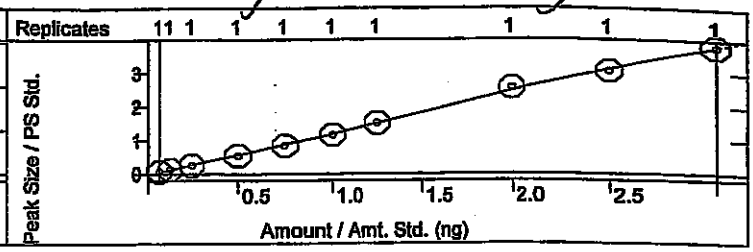
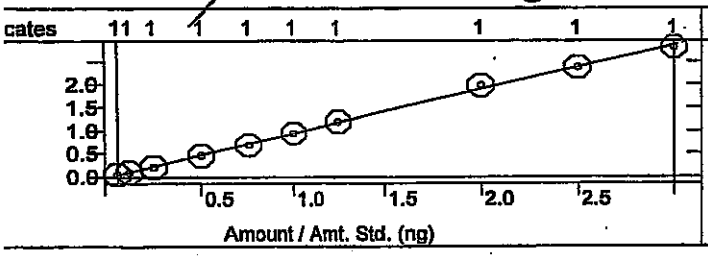
ene
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
+0.0803x2 +0.7448x -0.0135



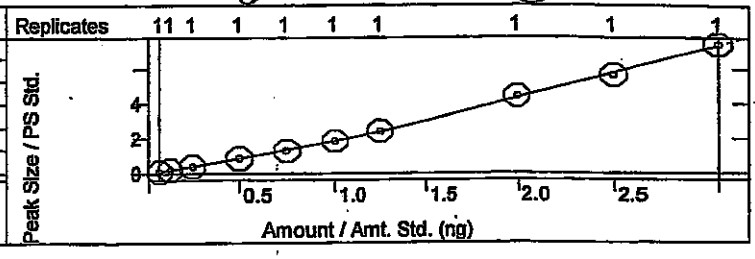
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



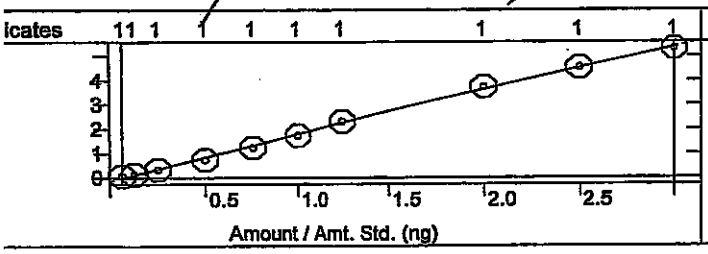
yl benzyl phthalate
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
+0.9570x -0.0113



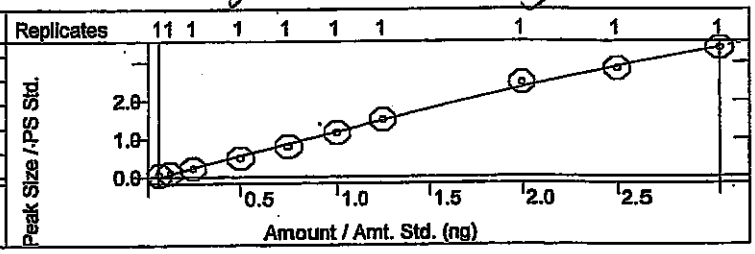
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



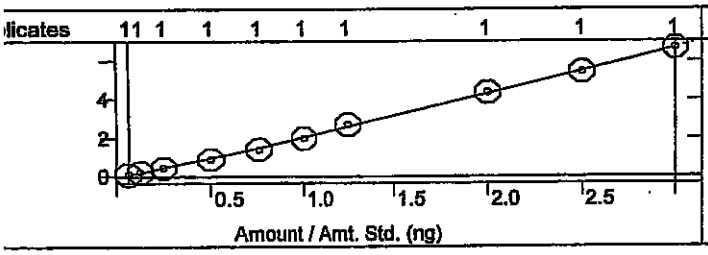
nz[a]anthracene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
-0.0513x2 +1.9866x -0.1374



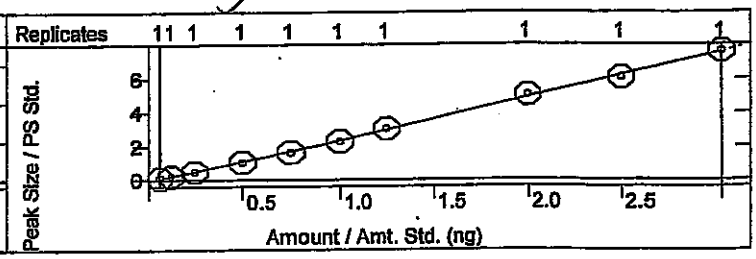
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



ırysene
ırve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
= +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



ıple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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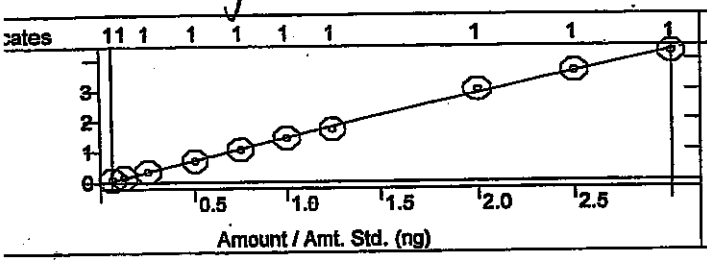
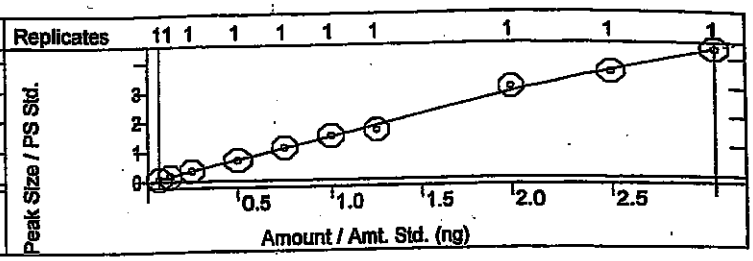
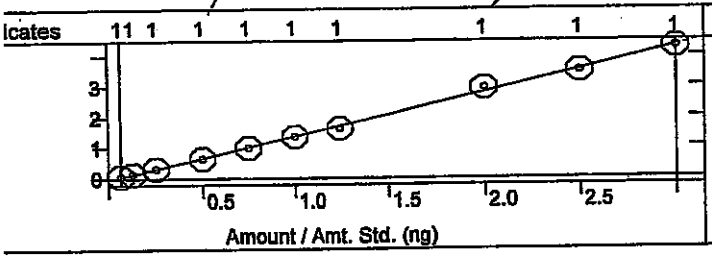
ızo(b)fluoranthene
ve Fit: Quadratic, Origin: Ignore, Weight: None
ip. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
-0.0187x2 +1.5058x +0.0450



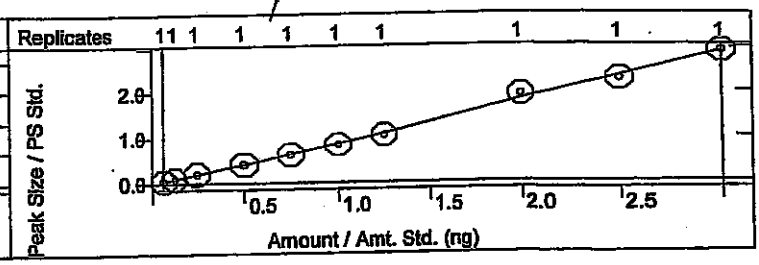
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



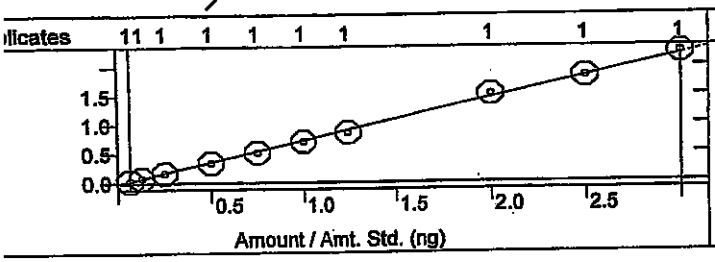
nzo[a]pyrene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
+0.0286x2 +1.3562x -0.0307



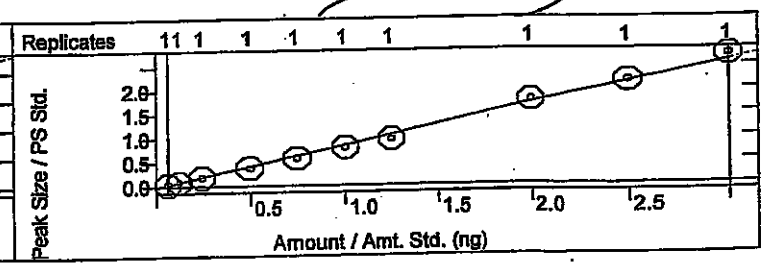
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



benz[a,h]anthracene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
= +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

JC
4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PAS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PAS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PAS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PAS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PAS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PAS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PAS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PAS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PAS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PAS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PAS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PAS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PAS
1.273 1.215													

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9993	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

JV
4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

JC 4.28.

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

JC
4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

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	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TE 4-28-14

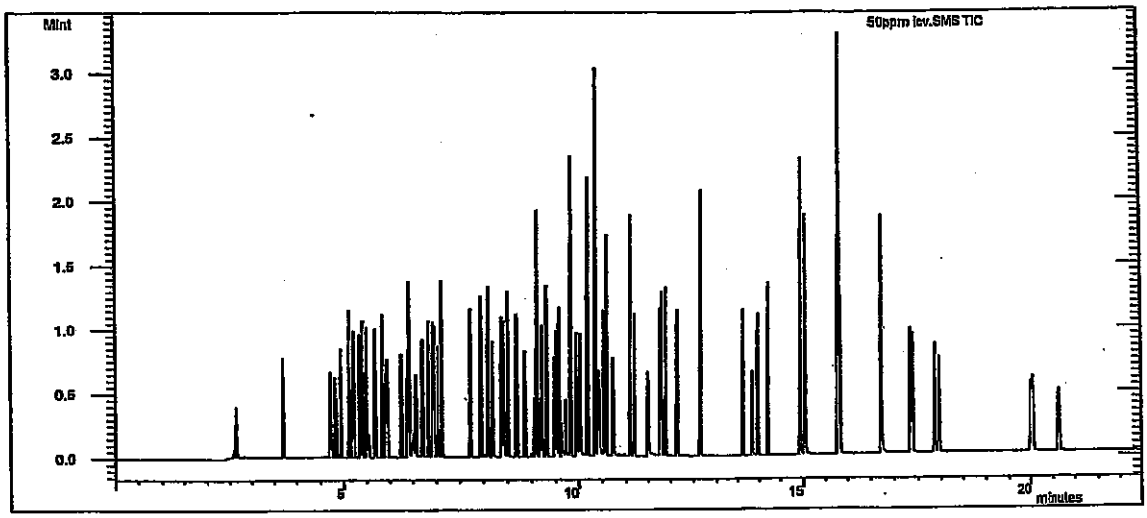
Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual. Result		
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

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Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

Hall Environmental Analysis Laboratory

Time Started: 11:00
Time Ended: 5:00

PREP BATCH REPORT

Prep Start Date: 8/28/2014 9:56:33 A
Prep End Date:

Extraction Method 3540

Reviewed By: JC 8.29.14

Prep Factor Units: mL / g

Prep Batch ID: **15010** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15010		Soil			30	0	0 JC 8.29.14	1	0.033	8/28/2014	
LCS-15010		Soil			30	0	0	1	0.033	8/28/2014	
1408E34-001A	FFOR-CF-0052	MeOH (Soil)			30.08	0	0	1	0.033	8/28/2014	
1408E34-001AMS		MeOH (Soil)			30.16	0	0	1	0.033	8/28/2014	
1408E34-001AMSD		MeOH (Soil)			30.01	0	0	1	0.033	8/28/2014	
1408E34-002A	FFOR-CF-0053	MeOH (Soil)			30.23	0	0	1	0.033	8/28/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC 8.28	µL
ST8270-~~14027~~ 14031 JC 8.28.14	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 JC 8.28.14	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 SC 8.28	µL

Sample List: C:\VarianWS\082914.smp

Created: Fri Aug 29 09:11:40 2014
Modified: Fri Aug 29 13:24:17 2014

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JC 8.29.14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	40ppm	1	below	1	1.0
	Notes sv110-0593				
3	mb-15010	1	below	2	1.0
	Notes soil				
4	lcs-15010	1	below	3	1.0
	Notes soil				
5	1408E34-001A	1	below	4	1.0
	Notes x1 soil				
6	1408E34-001Ams	1	below	5	1.0
	Notes x1 soil				
7	1408E34-001Amsd	1	below	6	1.0
	Notes x1 soil				
8	1408E34-002A	1	below	7	1.0
	Notes x1 soil				
9	1408E34-002A	1	below	8	1.0
	Notes ~~x5~~ x2 soil				
10	mb-15032	1	below	9	1.0
	Notes TCLP				
11	lcs-15032	1	below	10	1.0
	Notes TCLP				
12	1408D28-004A	1	below	11	1.0
	Notes x1 TCLP re-ex				
13					

JC 8.29.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\082914.rcl.

JC 9/2/14

Instrument: ELMO Date: 1/ /

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

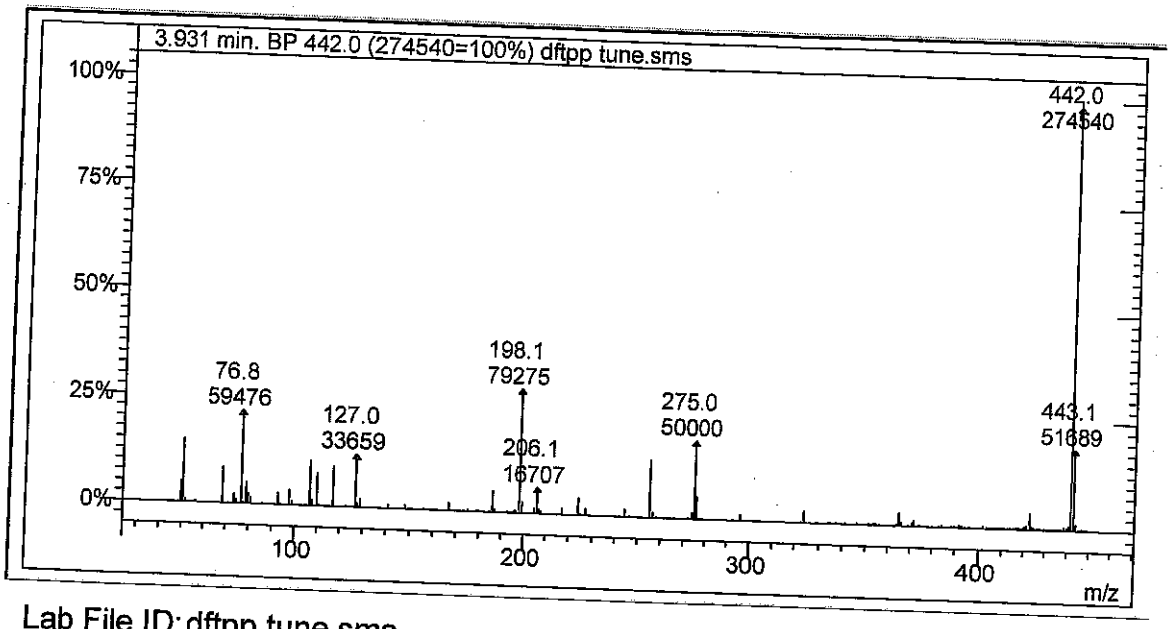
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/29/2014

Injection Time: 9:15

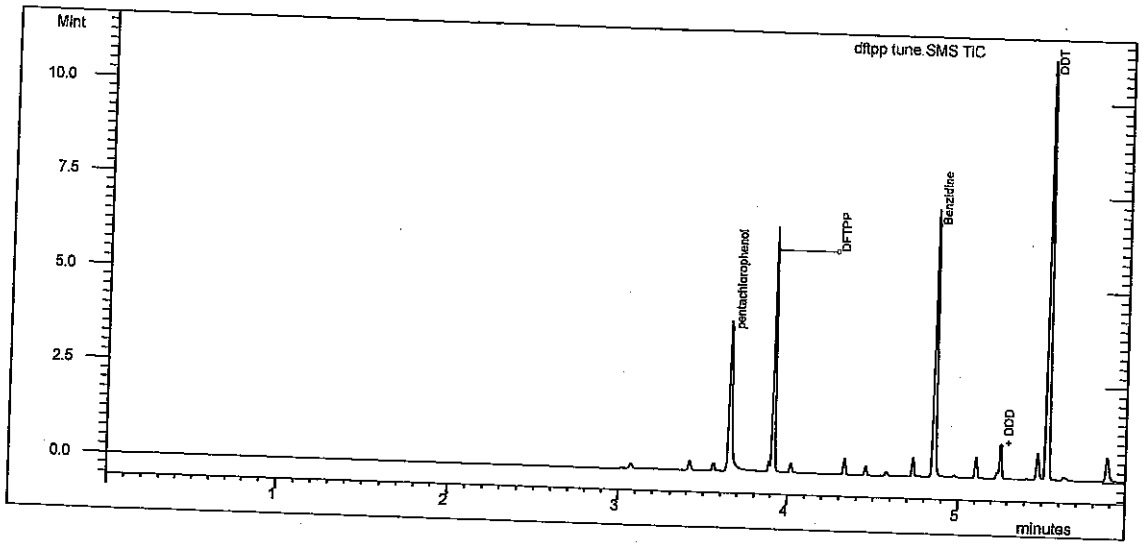
8-29-14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	14.85	PASS
68	<2% of m/z 69	0.04	PASS
69	Present	8.36	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	12.26	PASS
197	<2% of m/z 198	1.85	PASS
198	Base peak	28.88	PASS
199	5-9% of m/z 198	8.98	PASS
275	10-60% of base peak	18.21	PASS
365	>1% of base peak	3.05	PASS
441	Present and <m/z 443	5.24	PASS
442	>50% of m/z 198	346.31	PASS
443	15-24% of m/z 442	18.83	PASS

dam 9/2/14

Degradation Report

Acquisition Date:	8/29/2014 9:15:05 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.527	2.836E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.259	228853	5
DDE	4.980	5445	6

% Degradation of **DDT : =** 7.632 / 120

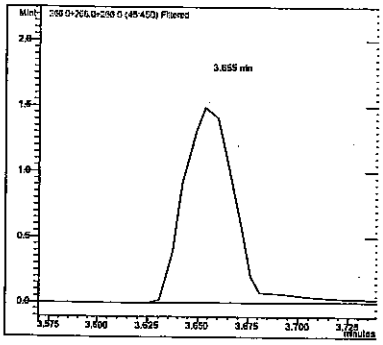
JC 8.29.14

dam 9/2/14

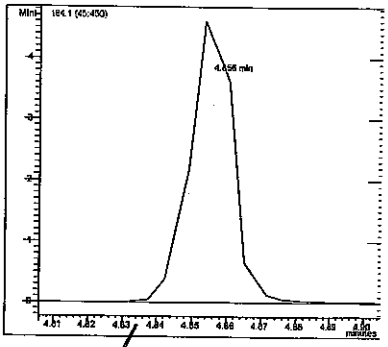
Tailing and Gaussian Factor Report

Acquisition Date:	8/29/2014 9:15:05 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.655 Area = 2.720E6



Benzidine
RT = 4.856 Area = 4.061E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.655	1.461	0.841
Benzidine	4.856	1.271	0.978

#	Compound Name	RT	Area
1	pentachlorophenol	3.655	2.720E6
3	Benzidine	4.856	4.061E6

8-29-14

dam 9/2/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
40ppm	132084	5.18	404549	6.90	194046	9.50	371305	11.75	391389	15.76	479209	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

JC 8-24-14

Adam 9/2/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\082914\40ppm.SMS Lab Sample ID: 40ppm

Instrument ID: ELMO Date Analyzed: 8/29/2014 Time Analyzed: 09:28

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	132084	5.18	404549	6.90	194046	9.50	371305	11.75	391389	15.76	479209	17.91
UPPER LIMIT	264168	5.68	809098	7.40	388092	10.00	742610	12.25	782778	16.26	958418	18.41
LOWER LIMIT	66042	4.68	202275	6.40	97023	9.00	185653	11.25	195695	15.26	239605	17.41
EPA SAMPLE NO												
mb-15010	79887	5.17	270902	6.89	128794	9.49	204047	11.74	239863	15.75	292775	17.90
lcs-15010	69552	5.17	234280	6.90	109344	9.49	212999	11.74	258268	15.75	309392	17.90
1408E34-00	76110	5.18	263038	6.90	129005	9.50	250674	11.74	274732	15.76	319839	17.91
1408E34-00	69246	5.17	230025	6.89	105313	9.49	211041	11.74	234635	15.75	273144	17.90
1408E34-00	69988	5.18	235185	6.90	107687	9.50	215309	11.74	239601	15.76	269966	17.91
1408E34-00	60325 D	5.18 D	234952 D	6.91 D	126924 D	9.50 D	231647	11.75	254423	15.76	236635 *	17.92
1408E34-00	82165	5.18	305302 D	6.90 D	153244	9.50	287093	11.74	310967	15.76	324556	17.91
mb-15032	88375	5.18	301426	6.90	131632	9.49	277195	11.74	301331	15.75	335683	17.91
lcs-15032	87721	5.18	284148	6.90	119751	9.50	258255	11.74	279182	15.76	314475	17.91
1408D28-00	72996	5.18	239469	6.90	105729	9.50	225585	11.75	211997	15.76	244375	17.91

D = ✓ spectra

* = 1 MR

JC 8-29-14

dam 9/2/14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/29/2014 Time: 9:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\40ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.820	0.050	40.00	49.72	-24.3	40.0	PASS	PASS
Pyridine	11.269	0.050	40.00	49.29	-23.2	40.0	PASS	PASS
2-Fluorophenol	1.109	0.050	40.00	38.65	3.4	40.0	PASS	PASS
Phenol-d5	1.099	0.050	40.00	40.35	-0.9	40.0	PASS	PASS
Phenol	1.146	0.050	40.00	37.22	6.9	20.0	PASS	PASS
Aniline	3.420	0.050	40.00	33.46	16.3	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.954	0.050	40.00	38.29	4.3	40.0	PASS	PASS
2-Chlorophenol	1.193	0.050	40.00	39.89	0.3	40.0	PASS	PASS
1,3-Dichlorobenzene	1.464	0.050	40.00	38.66	3.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.453	0.050	40.00	40.59	-1.5	20.0	PASS	PASS
Benzyl alcohol	1.125	0.050	40.00	39.68	0.8	40.0	PASS	PASS
1,2-Dichlorobenzene	1.404	0.050	40.00	39.70	0.7	40.0	PASS	PASS
2-Methylphenol	0.914	0.050	40.00	37.43	6.4	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.235	0.050	40.00	35.22	12.0	40.0	PASS	PASS
3+4-Methylphenol	1.081	0.050	40.00	34.69	13.3	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.352	0.050	40.00	37.78	5.5	40.0	PASS	PASS
Hexachloroethane	4.519	0.050	40.00	38.98	2.6	40.0	PASS	PASS
Nitrobenzene-d5	0.325	0.050	40.00	41.91	-4.8	40.0	PASS	PASS
Nitrobenzene	0.321	0.050	40.00	40.15	-0.4	40.0	PASS	PASS
Isophorone	0.684	0.050	40.00	46.70	-16.7	40.0	PASS	PASS
2-Nitrophenol	0.329	0.050	40.00	42.31	-5.8	20.0	PASS	PASS
2,4-Dimethylphenol	0.371	0.050	40.00	40.61	-1.5	40.0	PASS	PASS
Benzoic acid	2.386	0.050	40.00	45.12	-12.8	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.412	0.050	40.00	45.57	-13.9	40.0	PASS	PASS
2,4-Dichlorophenol	0.353	0.050	40.00	40.02	0.0	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.314	0.050	40.00	38.18	4.5	40.0	PASS	PASS
Naphthalene	0.843	0.050	40.00	40.58	-1.4	40.0	PASS	PASS
4-Chloroaniline	0.389	0.050	40.00	40.60	-1.5	40.0	PASS	PASS
Hexachlorobutadiene	0.636	0.050	40.00	38.19	4.5	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.439	0.050	40.00	41.87	-4.7	20.0	PASS	PASS
2-Methylnaphthalene	0.231	0.050	40.00	36.58	8.5	40.0	PASS	PASS
1-Methylnaphthalene	0.234	0.050	40.00	36.48	8.8	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.387	0.050	40.00	30.68	23.3	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.327	0.050	40.00	36.76	8.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.290	0.050	40.00	34.98	12.6	40.0	PASS	PASS
2-Fluorobiphenyl	1.445	0.050	40.00	37.92	5.2	40.0	PASS	PASS

JC 9/2/14

dam 9/2/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.550	0.050	40.00	39.71	0.7	40.0	PASS	PASS
2-Nitroaniline	1.123	0.050	40.00	40.27	-0.7	40.0	PASS	PASS
Dimethyl phthalate	2.971	0.050	40.00	41.24	-3.1	40.0	PASS	PASS
2,6-Dinitrotoluene	0.706	0.050	40.00	40.92	-2.3	40.0	PASS	PASS
Acenaphthylene	1.876	0.050	40.00	38.53	3.7	40.0	PASS	PASS
3-Nitroaniline	1.068	0.050	40.00	39.32	1.7	40.0	PASS	PASS
Acenaphthene	1.218	0.050	40.00	38.57	3.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.263	0.050	40.00	45.92	-14.8	40.0	PASS	PASS
4-Nitrophenol	0.203	0.050	40.00	42.22	-5.5	40.0	PASS	PASS
Dibenzofuran	0.777	0.050	40.00	33.89	15.3	40.0	PASS	PASS
2,4-Dinitrotoluene	0.337	0.050	40.00	36.53	8.7	40.0	PASS	PASS
Diethyl phthalate	2.424	0.050	40.00	37.78	5.5	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.645	0.050	40.00	30.35	24.1	40.0	PASS	PASS
Fluorene	2.342	0.050	40.00	36.22	9.4	40.0	PASS	PASS
4-Nitroaniline	1.878	0.050	40.00	39.03	2.4	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.448	0.050	40.00	49.57	-23.9	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.665	0.050	40.00	40.25	-0.6	20.0	PASS	PASS
Azobenzene	0.939	0.050	40.00	39.95	0.1	40.0	PASS	PASS
2,4,6-Tribromophenol	1.698	0.050	40.00	41.08	-2.7	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.509	0.050	40.00	39.85	0.4	40.0	PASS	PASS
Hexachlorobenzene	0.510	0.050	40.00	36.77	8.1	40.0	PASS	PASS
Pentachlorophenol	1.395	0.050	40.00	40.48	-1.2	20.0	PASS	PASS
Phenanthrene	0.954	0.050	40.00	39.66	0.9	40.0	PASS	PASS
Anthracene	0.994	0.050	40.00	40.92	-2.3	40.0	PASS	PASS
Carbazole	0.893	0.050	40.00	37.73	5.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.023	0.050	40.00	39.85	0.4	40.0	PASS	PASS
Fluoranthene	0.883	0.050	40.00	38.00	5.0	20.0	PASS	PASS
Benzidine	0.584	0.050	40.00	42.29	-5.7	40.0	PASS	PASS
Pyrene	0.815	0.050	40.00	40.14	-0.4	40.0	PASS	PASS
4-Terphenyl-d14	1.068	0.050	40.00	36.17	9.6	40.0	PASS	PASS
Butyl benzyl phthalate	0.987	0.050	40.00	41.73	-4.3	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.764	0.050	40.00	38.34	4.2	40.0	PASS	PASS
Benz[a]anthracene	1.446	0.050	40.00	32.57	18.6	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.865	0.050	40.00	29.61	26.0	40.0	PASS	PASS
Chrysene	1.857	0.050	40.00	36.45	8.9	40.0	PASS	PASS
Di-n-octyl phthalate	2.373	0.050	40.00	40.52	-1.3	20.0	PASS	PASS
Benzo(b)fluoranthene	1.430	0.050	40.00	39.66	0.8	40.0	PASS	PASS
Benzo[k]fluoranthene	1.444	0.050	40.00	39.89	0.3	40.0	PASS	PASS
Benzo[a]pyrene	1.368	0.050	40.00	40.38	-1.0	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.820	0.050	40.00	38.43	3.9	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.706	0.050	40.00	39.04	2.4	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.846	0.050	40.00	40.07	-0.2	40.0	PASS	PASS

9-2-14

dan 9/2/14

09/3/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408E34**
Date Reported:

L4

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408E34

Lab ID: 1408E34-001 **Collection Date:** 8/27/2014
Client Sample ID: FFOR-CF-0052 **Matrix:** MEOH (SOIL)

8/30 20906 915AM
9/2 20930 1225PM

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	2.8 ✓	0.27		mg/Kg-dry	1	15045	9/2/2014 12:25:43 PM

Lab ID: 1408E34-002 **Collection Date:** 8/27/2014
Client Sample ID: FFOR-CF-0053 **Matrix:** MEOH (SOIL)

8/30 20906 918AM
9/2 20930 1226PM

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/02/2014, LEVEL 3.							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	5.6 ✓	0.26		mg/Kg-dry	1	15045	9/2/2014 12:26:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

MD 8/30/14 Reprep. Analyst did not spike QC

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **8/29/2014 3:59:42 P**
Prep End Date:

Analyst/Date: MD 8/29/14
QA'd/Date: JF 9/3/14

Prep Batch ID **15048** Prep Code: **3050**
Initial Temp: **°C** Final Temp **°C**

Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15048		Soil			1.9987	0	0	50	50.000	8/29/2014	
LCS-15048		Soil			1.0157	0	0	50	50.000	8/29/2014	
1408D94-001A	Soil-DL	Soil			1.9946	0	0	50	50.000	8/29/2014	
1408E34-001A	FFOR-CF-0052	MeOH (Soil)			1.9905	0	0	50	50.000	8/29/2014	
1408E34-002A	FFOR-CF-0053	MeOH (Soil)			1.0321	0	0	50	50.000	8/29/2014	
1408E80-001A	SSD-1	Soil			1.0143	0	0	50	50.000	8/29/2014	
1408E80-002A	SSD-2	Soil			1.9599	0	0	50	50.000	8/29/2014	
1408E80-003A	SSD-3	Soil			1.9914	0	0	50	50.000	8/29/2014	
1408E80-004A	SSD-4	Soil			1.0200	0	0	50	50.000	8/29/2014	
1408E80-005A	SSD-5	Soil			1.0275	0	0	50	50.000	8/29/2014	
1408E80-006A	SSD-6 DUP	Soil			1.0332	0	0	50	50.000	8/29/2014	
1408E80-007A	SSD-7	Soil			1.0354	0	0	50	50.000	8/29/2014	
1408F01-001A	Soil Sample #1	Soil			1.9947	0	0	50	50.000	8/29/2014	
1408F68-001A	DTRA-ERB-1(362)	Paint Chips			1.2249	0	0	50	50.000	8/29/2014	
1408F68-002A	DTRA-ERB-1(363)	Paint Chips			1.0893	0	0	50	50.000	8/29/2014	
1408E80-003AMS		Soil			1.0474	0	0	50	50.000	8/29/2014	
1408E80-003AMSD		Soil			1.9942	0	0	50	50.000	8/29/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4704	Tubes 1/2		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1/3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1/5		HCl /		HCl /
	Filters /		Filters /	4723	Filters 1/1		Filters /		Filters /
					H_2O_2 /		TCLP Fluid /		EE Wipes /
					Teflon Chips /		TCLP Fluid /		

Not used 10/27/14

Standards:

ST6020 - _____ Exp: _____ ST6010 - _____ Exp: _____ _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - _____ Exp: _____ _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.4900g - 0.5100g

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: _____ QA'd/Date: _____

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: __AF__ and __CMS__

Hall Environmental Analysis Laboratory

nalyst/Date: MD 8/30/14

A'd/Date: JV 9/4/14

PREP BATCH REPORT

Prep Start Date: **8/29/2014 2:28:56 P**
Prep End Date:

Prep Factor Units: **mL / g**

Prep Batch ID: **15045** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15045		Soil			1.0057	0	0	50	50.000	8/29/2014	
LCS-15045		Soil			1.9729	0	0	50	50.000	8/29/2014	
1408D94-001A	Soil-DL	Soil			1.0138	0	0	50	50.000	8/29/2014	
1408E34-001A	FFOR-CF-0052	MeOH (Soil)			1.9738	0	0	50	50.000	8/29/2014	
1408E34-002A	FFOR-CF-0053	MeOH (Soil)			1.0320	0	0	50	50.000	8/29/2014	
1408E80-001A	SSD-1	Soil			1.0016	0	0	50	50.000	8/29/2014	
1408E80-002A	SSD-2	Soil			1.0387	0	0	50	50.000	8/29/2014	
1408E80-003A	SSD-3	Soil			1.0230	0	0	50	50.000	8/29/2014	
1408E80-003AMS		Soil			1.0106	0	0	50	50.000	8/29/2014	
1408E80-003AMSD		Soil			1.9978	0	0	50	50.000	8/29/2014	
1408E80-004A	SSD-4	Soil			1.0439	0	0	50	50.000	8/29/2014	
1408E80-005A	SSD-5	Soil			1.9974	0	0	50	50.000	8/29/2014	
1408E80-006A	SSD-6 DUP	Soil			1.0303	0	0	50	50.000	8/29/2014	
1408E80-007A	SSD-7	Soil			1.9882	0	0	50	50.000	8/29/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
1408FD1-001A		1.000				
1408F08-001A		0.1017				
1408F08-002A		0.0852				

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 15045	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4703	Tubes 1 / 1		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1 / 3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1 / 5		HCl /		HCl /
	Filters /		Filters /	4723	Filters 1 / 1		Filters /		Filters /
				4084	H_2O_2 1 / 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 / 1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/14 MD 8/30 5 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawan Position: D4

Therm ID: DBT-22 Calibration Exp: 8/9/14

Temp: 92.0°C CF: -0 °C = Corr. Temp: 92.0°C

Analyst: MD Date/Time: 8/30/14 12:42

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5001 Rm Temp (°C): 21.8 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

250µL Pipette No.: P15 Wt. DI (g): 0.2501e Rm Temp (°C): ↓ Analyst: ↓

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 8/30/14 QA'd/Date: AF 9/8/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

2/5/14 NO data reported from this RUN. LCS-15048 not spiked

Run No.: 20906

ICP-OES Analysis Summary

Instrument: 1515

Data Imported By: EL 2/30/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 083014 B150148 **Prep Batch ID:** 15048

Calibration

	Standard ID
ST1	ST6010- 14379
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010-
ST8	ST6010-

	Standard ID
ICV	ST6010- 14362
ICV CAT	ST6010- NA
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 5 µL Wt DI (g): 0.0508 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: P11 Spike Volume: 500 µL Wt DI (g): 0.1007 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: P30 Spike Volume: 500 µL Wt DI (g): 0.5057 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: P35 Spike Volume: 1 mL Wt DI (g): 1.0083 Rm Temp (°C): 21.2 Analyst: EL

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
BA	1408F01-001A	1.155	0.9947	50mL	2x	116.382	mg/Kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result ____ mg/L

Analyst/Date: EL 01/30/14 Qa'd by/Date: ____

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ____ and ____.

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Sample Information Detail Report
Document Name: 083014 B15048

File Description
Hall Design

Parameters Common to All Samples

Batch ID	083014 B15048
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-15048	MBLK
2	302	LCS-15048	LCS
3	303	1408D94-001A	SAMP
4	304	1408D94-001A 2X	SAMP
5	305	1408E34-001A	SAMP
6	306	1408E34-002A	SAMP
7	307	1408E80-001A	SAMP
8	308	1408E80-001A 2X	SAMP
9	309	1408E80-002A	SAMP
10	310	1408E80-002A 2X	SAMP
11	311	1408E80-003A	SAMP
12	312	1408E80-003AMS	MS
13	313	1408E80-003AMSD	MSD
14	314	1408E80-003A 2X	SAMP
15	315	1408E80-003AMS 2X	MS
16	316	1408E80-003AMSD 2X	MSD
17	317	1408E80-004A	SAMP
18	318	1408E80-004A 2X	SAMP
19	319	1408E80-005A	SAMP
20	320	1408E80-005A 2X	SAMP
21	321	1408E80-006A	SAMP
22	322	1408E80-006A 2X	SAMP
23	323	1408E80-007A	SAMP
24	324	1408E80-007A 2X	SAMP
25	325	1408F01-001A	SAMP
26	326	1408F01-001A 2X	SAMP
27	327	1408F68-001A	SAMP
28	328	1408F68-002A	SAMP
29	329	1408B72-012A	SAMP
30	330	1408B72-012AMS	MS
31	331	1408B72-012AMSD	MSD
32	332	1408B72-012APS	PS

No data reported from this run. LCS-15048 not spiked. All samps re-prepped & rerun. MS 8/4/14

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL		
5	METALS_SOIL		
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL	Recovery 1 of 11	
13	METALS_SOIL	Recovery 1 of 11	
14	METALS_SOIL		
15	METALS_SOIL	Recovery 1 of 14	
16	METALS_SOIL	Recovery 1 of 14	
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		
20	METALS_SOIL		

21	METALS_SOIL	
22	METALS_SOIL	
23	METALS_SOIL	
24	METALS_SOIL	
25	METALS_SOIL	
26	METALS_SOIL	
27	METALS_SOIL	
28	METALS_SOIL	
29	METALS_TCLP	
30	METALS_TCLP	Recovery 1 of 29
31	METALS_TCLP	Recovery 1 of 29
32	METALS_TCLP	Recovery 1 of 29

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			

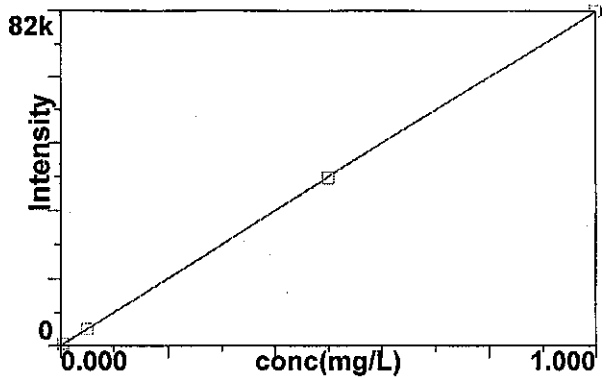
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	301	MB-15048	Analyzed
17	302	LCS-15048	Analyzed
18	303	1408D94-001A	IS Check Failed
19	304	1408D94-001A 2X	Analyzed
20	305	1408E34-001A	Analyzed
21	201	LCS-15048	Analyzed
22	306	1408E34-002A	Samp Limit Failed
23	307	1408E80-001A	Analyzed
24	308	1408E80-001A 2X	Analyzed
25	309	1408E80-002A	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	310	1408E80-002A 2X	Analyzed
30	311	1408E80-003A	Samp Limit Failed
31	312	1408E80-003AMS	Analyzed
32	313	1408E80-003AMSD	Analyzed
33	314	1408E80-003A 2X	Analyzed
34	315	1408E80-003AMS 2X	Analyzed
35	316	1408E80-003AMSD 2X	Analyzed
36	317	1408E80-004A	Analyzed
37	318	1408E80-004A 2X	Analyzed
38	319	1408E80-005A	Samp Limit Failed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	320	1408E80-005A 2X	Analyzed
43	321	1408E80-006A	Analyzed
44	322	1408E80-006A 2X	Analyzed
45	323	1408E80-007A	IS Check Failed
46	324	1408E80-007A 2X	Analyzed
47	325	1408F01-001A	Analyzed
48	326	1408F01-001A 2X	Analyzed
49	327	1408F68-001A	Analyzed
50	328	1408F68-002A	Samp Limit Failed
51	329	1408B72-012A	Samp Limit Failed
52	2	CCV	QC Passed
53	1	CCB	QC Failed
54	1	CCB	QC Failed
55	3	CCV CAT	Analyzed

Method: ISIS 080714 6010SOIL
Result: 083014 B15048

Ag 328.068



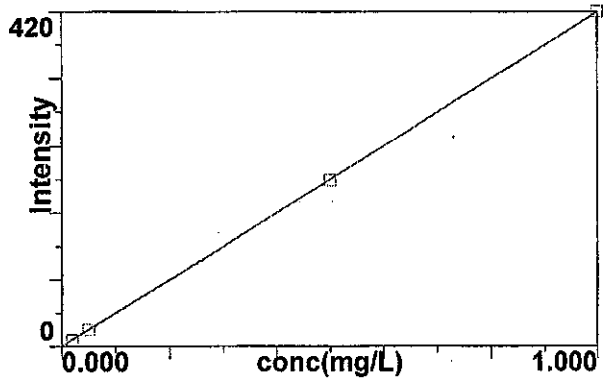
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

1

Al 396.153

2

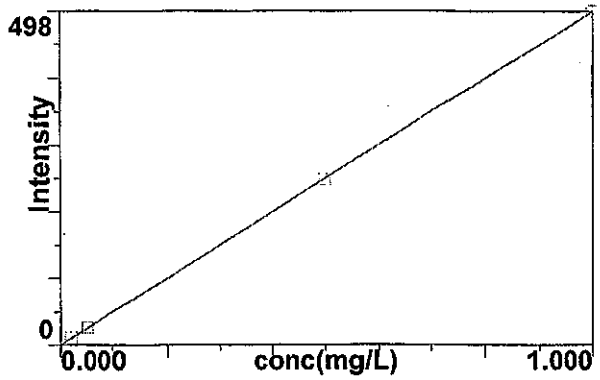
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

4

B 249.772

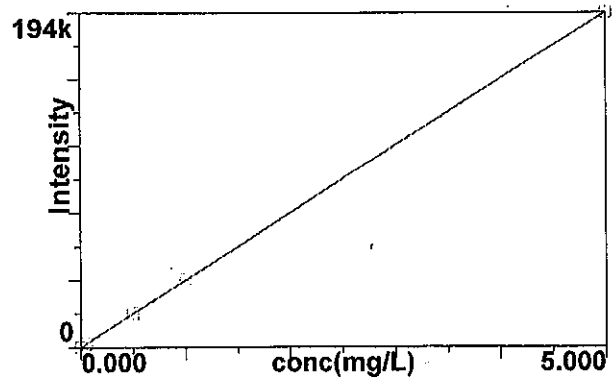
5

B 249.677

6

Method: ISIS 080714 6010SOIL
Result: 083014 B15048

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

7

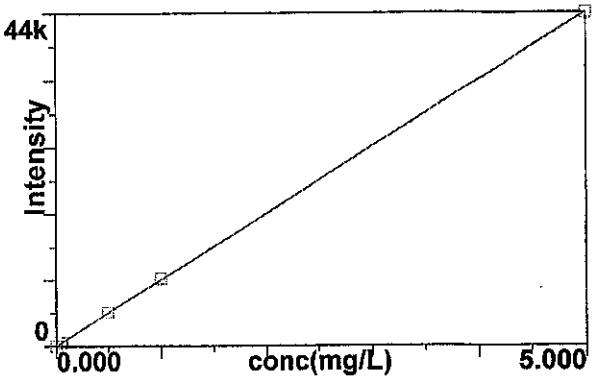
Be 313.107

8

Ca 317.933

9

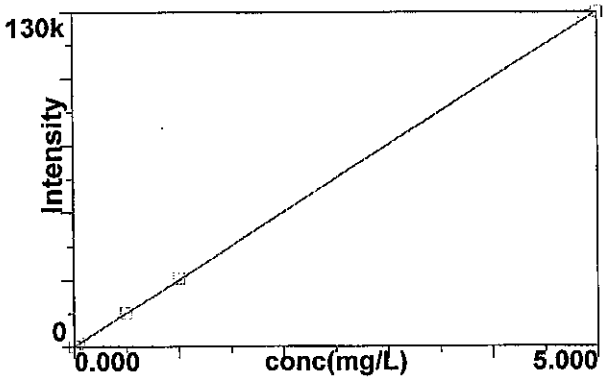
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

10

Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

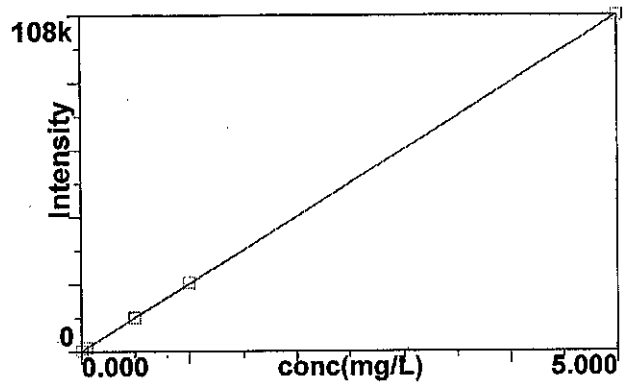
11

Co 228.616

12

Method: ISIS 080714 6010SOIL
Result: 083014 B15048

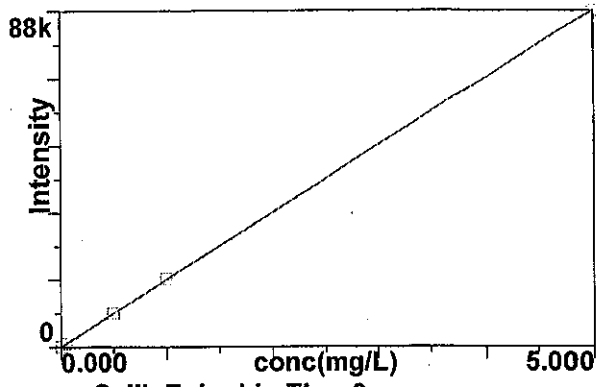
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

Mg 285.213

18

Mn 257.610

19

Mo 202.031

20

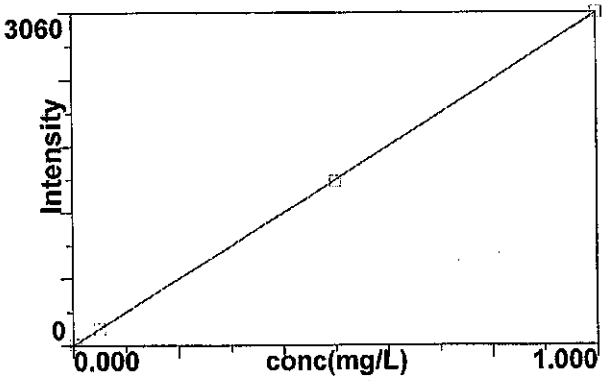
Na 589.592

21

Ni 231.604

22

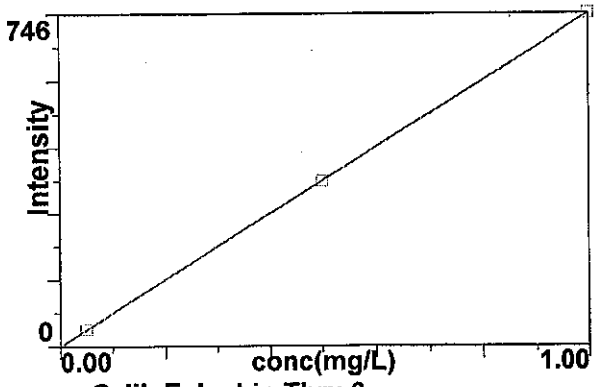
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

23

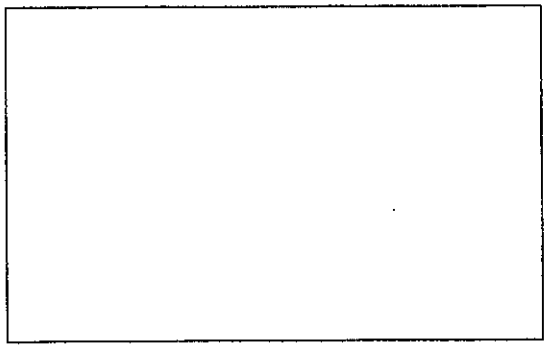
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

24

Sb 206.836



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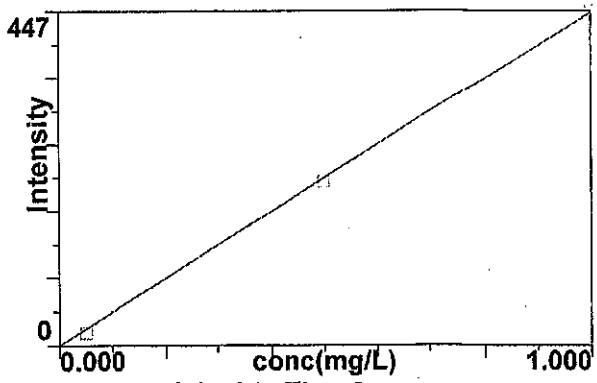
Se 203.985



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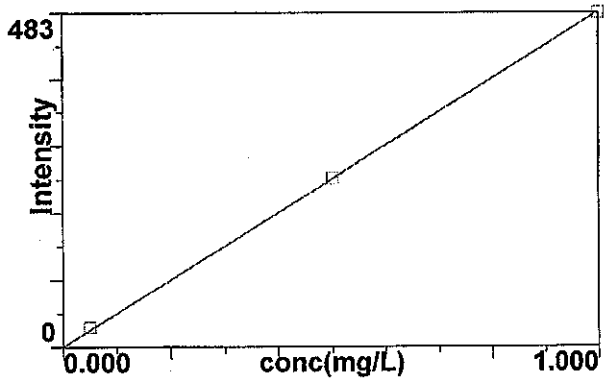
Se 196.026



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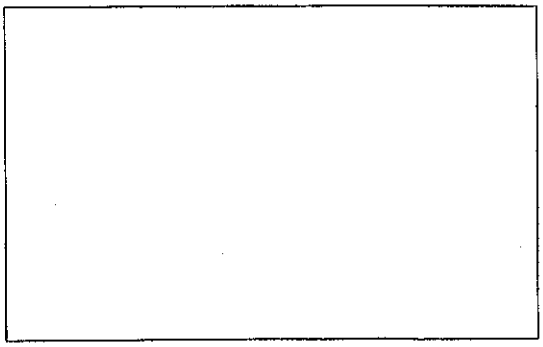
Si 212.412



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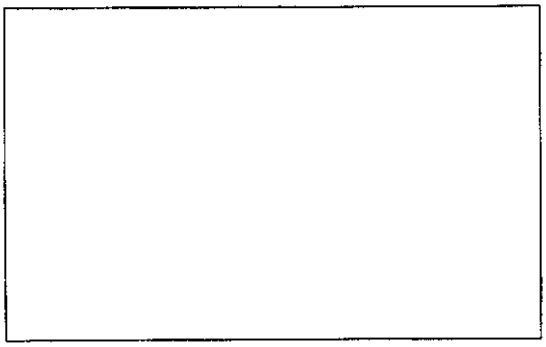
Sn 189.927



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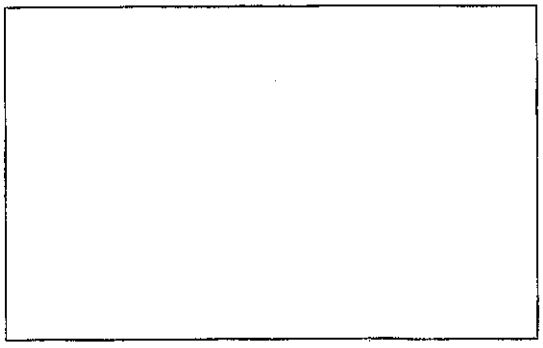
Ti 334.940



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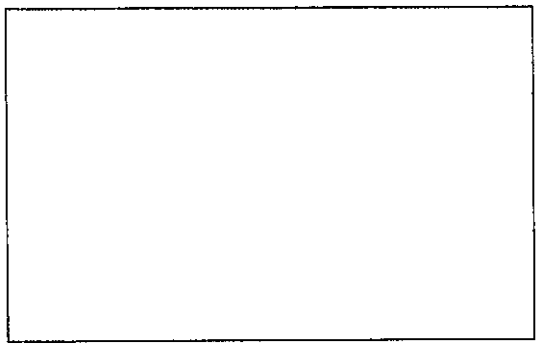
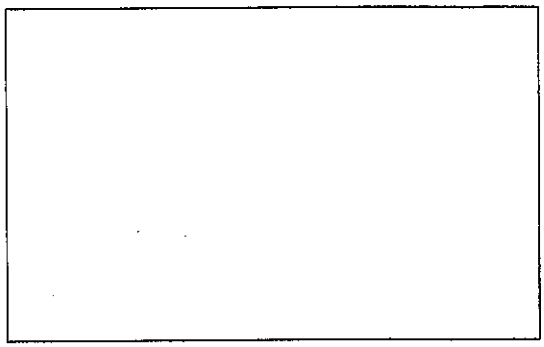
Tl 190.801



31

U 385.958



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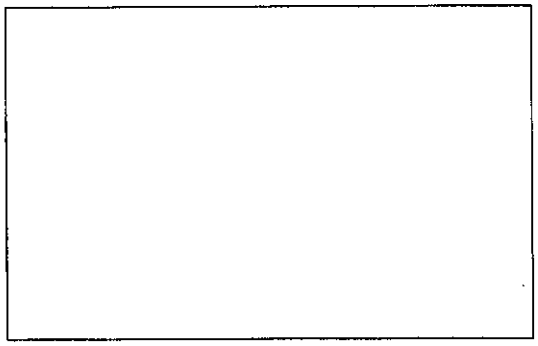
V 292.402



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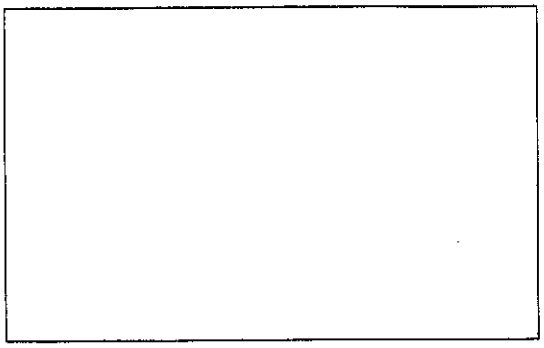
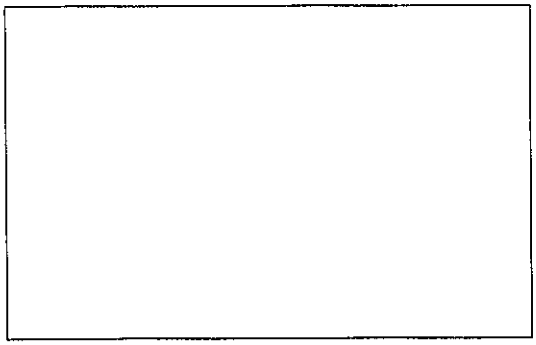
Zn 206.200



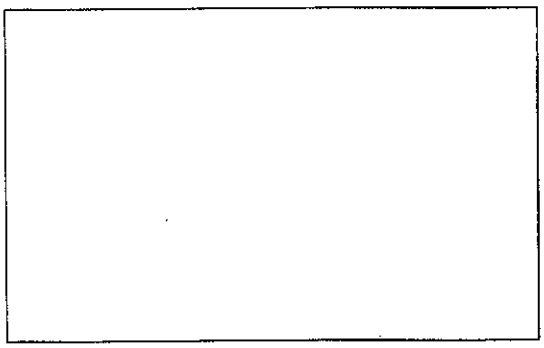
36

Sr 421.552



37

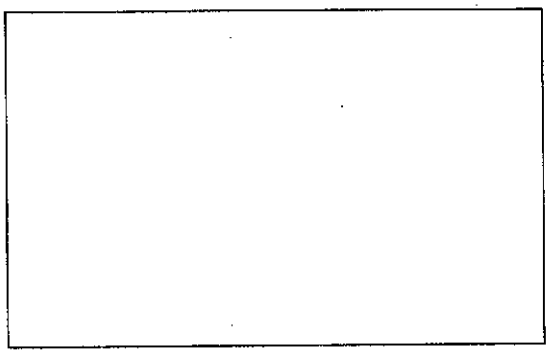
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 083014 B15048

U 424.167



39

Analysis Begun

Start Time: 8/30/2014 8:57:36 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/30/2014 6:33:19 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\083014 B15048.sif
Batch ID: 083014 B15048
Results Data Set: 083014 B15048
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/30/2014 8:57:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	529538.2	1871.14	0.35%	100.00	%
Ag 328.068†	16.0	2.92	18.22%	[0.00]	mg/L
As 188.979†	7.8	1.86	23.82%	[0.00]	mg/L
As 193.696†	-7.8	0.48	6.09%	[0.00]	mg/L
Ba 233.527†	2.4	8.17	335.11%	[0.00]	mg/L
Cd 228.802†	-15.9	1.61	10.13%	[0.00]	mg/L
Cd 226.502†	21.5	3.72	17.27%	[0.00]	mg/L
Cr 267.716†	-3.6	2.19	60.91%	[0.00]	mg/L
Cr 205.560†	-16.3	7.48	46.04%	[0.00]	mg/L
Pb 220.353†	-16.2	4.72	29.15%	[0.00]	mg/L
Pb 217.000†	7.1	3.59	50.83%	[0.00]	mg/L
Se 203.985†	3.3	6.88	207.28%	[0.00]	mg/L
Se 196.026†	-15.6	3.05	19.61%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/30/2014 8:58:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	500634.9	1929.09	0.39%	94.542	%
Ag 328.068†	408.4	17.20	4.21%	[0.005]	mg/L
As 188.979†	7.1	2.84	39.84%	[0.02]	mg/L

As 193.696†	10.9	3.12	28.69%	[0.02]	mg/L
Ba 233.527†	80.1	21.67	27.04%	[0.002]	mg/L
Cd 228.802†	19.8	3.96	19.96%	[0.002]	mg/L
Cd 226.502†	51.4	1.76	3.43%	[0.002]	mg/L
Cr 267.716†	130.1	3.99	3.07%	[0.006]	mg/L
Cr 205.560†	82.1	13.38	16.29%	[0.006]	mg/L
Pb 220.353†	12.4	5.83	47.17%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 8/30/2014 9:00:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	491573.2	3331.71	0.68%	92.831	%
Ag 328.068†	4078.3	31.67	0.78%	[0.05]	mg/L
As 188.979†	20.7	1.91	9.24%	[0.050]	mg/L
As 193.696†	26.2	4.26	16.27%	[0.050]	mg/L
Ba 233.527†	2015.9	30.37	1.51%	[0.05]	mg/L
Cd 228.802†	453.0	3.56	0.78%	[0.05]	mg/L
Cd 226.502†	1336.5	11.93	0.89%	[0.05]	mg/L
Cr 267.716†	1105.2	11.05	1.00%	[0.05]	mg/L
Cr 205.560†	884.4	13.92	1.57%	[0.05]	mg/L
Pb 220.353†	155.3	4.47	2.88%	[0.05]	mg/L
Pb 217.000†	38.7	6.52	16.84%	[0.05]	mg/L
Se 203.985†	16.4	15.87	96.85%	[0.050]	mg/L
Se 196.026†	28.3	5.22	18.45%	[0.050]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/30/2014 9:01:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	495033.5	1704.22	0.34%	93.484	%
Ag 328.068†	40358.3	96.61	0.24%	[0.50]	mg/L
As 188.979†	208.8	1.61	0.77%	[0.50]	mg/L
As 193.696†	247.2	6.17	2.50%	[0.50]	mg/L
Ba 233.527†	19549.1	53.61	0.27%	[0.50]	mg/L
Cd 228.802†	4462.3	29.24	0.66%	[0.50]	mg/L
Cd 226.502†	13111.8	21.41	0.16%	[0.50]	mg/L
Cr 267.716†	10825.4	29.32	0.27%	[0.50]	mg/L
Cr 205.560†	8821.0	72.77	0.82%	[0.50]	mg/L
Pb 220.353†	1514.2	13.20	0.87%	[0.50]	mg/L
Pb 217.000†	372.1	1.92	0.52%	[0.50]	mg/L
Se 203.985†	218.0	9.21	4.22%	[0.50]	mg/L
Se 196.026†	242.6	11.78	4.85%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 8/30/2014 9:02:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	507658.7	2145.71	0.42%	95.868	%
Ag 328.068†	81501.7	228.06	0.28%	[1.00]	mg/L
As 188.979†	420.0	5.32	1.27%	[1.00]	mg/L
As 193.696†	498.5	9.47	1.90%	[1.00]	mg/L
Ba 233.527†	39477.9	37.99	0.10%	[1.00]	mg/L
Cd 228.802†	8918.8	15.67	0.18%	[1.00]	mg/L
Cd 226.502†	26562.3	80.71	0.30%	[1.00]	mg/L
Cr 267.716†	21930.2	65.40	0.30%	[1.00]	mg/L
Cr 205.560†	17845.2	48.48	0.27%	[1.00]	mg/L
Pb 220.353†	3059.6	9.44	0.31%	[1.00]	mg/L
Pb 217.000†	746.0	9.70	1.30%	[1.00]	mg/L
Se 203.985†	446.6	5.63	1.26%	[1.00]	mg/L
Se 196.026†	482.9	3.59	0.74%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 8/30/2014 9:03:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	507756.5	3313.55	0.65%	95.887	%
Ba 233.527†	193616.2	359.75	0.19%	[5.00]	mg/L
Cd 228.802†	43747.4	118.08	0.27%	[5.00]	mg/L
Cd 226.502†	129881.8	347.20	0.27%	[5.00]	mg/L
Cr 267.716†	107750.4	349.15	0.32%	[5.00]	mg/L
Cr 205.560†	87927.7	266.56	0.30%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	81350	0.00000	0.999993	
As 188.979	4	Lin Thru 0	0.0	419.5	0.00000	0.999994	
As 193.696	4	Lin Thru 0	0.0	497.7	0.00000	0.999990	
Ba 233.527	5	Lin Thru 0	0.0	38760	0.00000	0.999993	
Cd 228.802	5	Lin Thru 0	0.0	8758	0.00000	0.999991	
Cd 226.502	5	Lin Thru 0	0.0	26000	0.00000	0.999990	
Cr 267.716	5	Lin Thru 0	0.0	21570	0.00000	0.999994	
Cr 205.560	5	Lin Thru 0	0.0	17600	0.00000	0.999996	
Pb 220.353	4	Lin Thru 0	0.0	3053	0.00000	0.999991	
Pb 217.000	3	Lin Thru 0	0.0	745.7	0.00000	0.999998	
Se 203.985	3	Lin Thru 0	0.0	444.3	0.00000	0.999885	

Se 196.026 3 Lin Thru 0 0.0 483.6 0.00000 0.999969
User canceled analysis.

Analysis Begun

Start Time: 8/30/2014 9:04:46 AM **Plasma On Time: 8/30/2014 6:33:19 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\083014 B15048.sif
Batch ID: 083014 B15048
Results Data Set: 083014 B15048
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 8/30/2014 9:04:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	509336.3	96.185	%	0.5771				0.60%
Ag 328.068†	39987.3	0.49158	mg/L	0.001818	0.49158	mg/L	0.001818	0.37%
QC value within limits for Ag 328.068 Recovery = 98.32%								
As 188.979†	206.4	0.49193	mg/L	0.020799	0.49193	mg/L	0.020799	4.23%
QC value within limits for As 188.979 Recovery = 98.39%								
As 193.696†	245.0	0.49230	mg/L	0.009473	0.49230	mg/L	0.009473	1.92%
Ba 233.527†	19422.4	0.50115	mg/L	0.001359	0.50115	mg/L	0.001359	0.27%
QC value within limits for Ba 233.527 Recovery = 100.23%								
Cd 228.802†	4391.5	0.50144	mg/L	0.003140	0.50144	mg/L	0.003140	0.63%
QC value within limits for Cd 228.802 Recovery = 100.29%								
Cd 226.502†	13017.2	0.50064	mg/L	0.003286	0.50064	mg/L	0.003286	0.66%
Cr 267.716†	10700.7	0.49620	mg/L	0.003564	0.49620	mg/L	0.003564	0.72%
Cr 205.560†	8706.8	0.49482	mg/L	0.005664	0.49482	mg/L	0.005664	1.14%
QC value within limits for Cr 205.560 Recovery = 98.96%								
Pb 220.353†	1517.5	0.49697	mg/L	0.004253	0.49697	mg/L	0.004253	0.86%
QC value within limits for Pb 220.353 Recovery = 99.39%								
Pb 217.000†	372.4	0.49941	mg/L	0.014230	0.49941	mg/L	0.014230	2.85%
Se 203.985†	225.4	0.50743	mg/L	0.014143	0.50743	mg/L	0.014143	2.79%
Se 196.026†	242.5	0.50141	mg/L	0.008425	0.50141	mg/L	0.008425	1.68%
QC value within limits for Se 196.026 Recovery = 100.28%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/30/2014 9:05:51 AM **Plasma On Time: 8/30/2014 6:33:19 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\083014 B15048.sif
Batch ID: 083014 B15048
Results Data Set: 083014 B15048
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 8/30/2014 9:05:51 AM**

Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	513017.1	96.880	%	1.2746				1.32%
Ag 328.068†	21.0	0.00026	mg/L	0.000105	0.00026	mg/L	0.000105	40.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.5	0.00357	mg/L	0.004369	0.00357	mg/L	0.004369	122.24%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.1	0.00016	mg/L	0.008397	0.00016	mg/L	0.008397	>999.9%
Ba 233.527†	17.8	0.00046	mg/L	0.000438	0.00046	mg/L	0.000438	95.41%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.1	0.00023	mg/L	0.000116	0.00023	mg/L	0.000116	49.20%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	12.0	0.00046	mg/L	0.000094	0.00046	mg/L	0.000094	20.31%
Cr 267.716†	4.1	0.00019	mg/L	0.000064	0.00019	mg/L	0.000064	33.56%
Cr 205.560†	-0.7	-0.00004	mg/L	0.001452	-0.00004	mg/L	0.001452	>999.9%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-5.6	-0.00182	mg/L	0.001314	-0.00182	mg/L	0.001314	72.14%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.6	-0.00219	mg/L	0.003873	-0.00219	mg/L	0.003873	176.50%
Se 203.985†	0.9	0.00214	mg/L	0.009941	0.00214	mg/L	0.009941	465.29%
Se 196.026†	1.6	0.00324	mg/L	0.013597	0.00324	mg/L	0.013597	420.29%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/30/2014 9:07:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	505072.1	95.380	%	0.3602				0.38%
Ag 328.068†	443.7	0.00545	mg/L	0.000087	0.00545	mg/L	0.000087	1.59%
QC value within limits for Ag 328.068 Recovery = 109.10%								
As 188.979†	9.4	0.02230	mg/L	0.000206	0.02230	mg/L	0.000206	0.92%
QC value within limits for As 188.979 Recovery = 111.51%								
As 193.696†	12.2	0.02452	mg/L	0.005595	0.02452	mg/L	0.005595	22.82%
Ba 233.527†	100.5	0.00259	mg/L	0.000126	0.00259	mg/L	0.000126	4.87%
QC value within limits for Ba 233.527 Recovery = 129.64%								
Cd 228.802†	22.4	0.00256	mg/L	0.000205	0.00256	mg/L	0.000205	8.02%
QC value within limits for Cd 228.802 Recovery = 127.75%								
Cd 226.502†	53.9	0.00207	mg/L	0.000208	0.00207	mg/L	0.000208	10.05%
Cr 267.716†	129.5	0.00601	mg/L	0.000296	0.00601	mg/L	0.000296	4.93%
Cr 205.560†	83.4	0.00474	mg/L	0.000584	0.00474	mg/L	0.000584	12.32%
QC value within limits for Cr 205.560 Recovery = 78.97%								
Pb 220.353†	16.9	0.00553	mg/L	0.000530	0.00553	mg/L	0.000530	9.58%
QC value within limits for Pb 220.353 Recovery = 110.66%								
Pb 217.000†	3.2	0.00433	mg/L	0.005564	0.00433	mg/L	0.005564	128.40%

Se 203.985†	18.8	0.04226 mg/L	0.006512	0.04226 mg/L	0.006512	15.41%
Se 196.026†	23.4	0.04849 mg/L	0.006161	0.04849 mg/L	0.006161	12.70%

QC value within limits for Se 196.026 Recovery = 96.98%
All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 8/30/2014 9:08:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	508447.8	96.017	%	0.4827				0.50%
Ag 328.068†	42116.6	0.51775	mg/L	0.000660	0.51775	mg/L	0.000660	0.13%
QC value within limits for Ag 328.068 Recovery = 103.55%								
As 188.979†	223.9	0.53373	mg/L	0.010877	0.53373	mg/L	0.010877	2.04%
QC value within limits for As 188.979 Recovery = 106.75%								
As 193.696†	219.3	0.44068	mg/L	0.006869	0.44068	mg/L	0.006869	1.56%
Ba 233.527†	19701.2	0.50834	mg/L	0.001675	0.50834	mg/L	0.001675	0.33%
QC value within limits for Ba 233.527 Recovery = 101.67%								
Cd 228.802†	4649.2	0.53087	mg/L	0.003429	0.53087	mg/L	0.003429	0.65%
QC value within limits for Cd 228.802 Recovery = 106.17%								
Cd 226.502†	13454.8	0.51747	mg/L	0.001874	0.51747	mg/L	0.001874	0.36%
Cr 267.716†	10835.6	0.50245	mg/L	0.001317	0.50245	mg/L	0.001317	0.26%
Cr 205.560†	8718.4	0.49548	mg/L	0.004434	0.49548	mg/L	0.004434	0.89%
QC value within limits for Cr 205.560 Recovery = 99.10%								
Pb 220.353†	1486.8	0.48694	mg/L	0.005058	0.48694	mg/L	0.005058	1.04%
QC value within limits for Pb 220.353 Recovery = 97.39%								
Pb 217.000†	398.1	0.53382	mg/L	0.006476	0.53382	mg/L	0.006476	1.21%
Se 203.985†	237.1	0.53370	mg/L	0.022425	0.53370	mg/L	0.022425	4.20%
Se 196.026†	263.9	0.54576	mg/L	0.018388	0.54576	mg/L	0.018388	3.37%
QC value within limits for Se 196.026 Recovery = 109.15%								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 8/30/2014 9:09:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	498545.8	94.147	%	0.3909				0.42%
Ag 328.068†	8.4	0.00010	mg/L	0.000139	0.00010	mg/L	0.000139	133.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	4.5	0.01079	mg/L	0.004346	0.01079	mg/L	0.004346	40.30%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-40.6	-0.08153	mg/L	0.008955	-0.08153	mg/L	0.008955	10.98%
Ba 233.527†	51.2	0.00132	mg/L	0.000111	0.00132	mg/L	0.000111	8.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-8.4	-0.00096	mg/L	0.000196	-0.00096	mg/L	0.000196	20.31%

QC value within limits for Cd 228.802 Recovery = Not calculated

Cd 226.502†	-10.6	-0.00041 mg/L	0.000240	-0.00041 mg/L	0.000240	58.98%
Cr 267.716†	13.0	0.00060 mg/L	0.000327	0.00060 mg/L	0.000327	54.40%
Cr 205.560†	-86.9	-0.00494 mg/L	0.000402	-0.00494 mg/L	0.000402	8.13%

QC value within limits for Cr 205.560 Recovery = Not calculated

Pb 220.353†	-37.2	-0.01219 mg/L	0.000454	-0.01219 mg/L	0.000454	3.73%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	14.2	0.01907 mg/L	0.005228	0.01907 mg/L	0.005228	27.41%
Se 203.985†	-29.8	-0.06703 mg/L	0.019125	-0.06703 mg/L	0.019125	28.53%
Se 196.026†	-10.9	-0.02257 mg/L	0.008137	-0.02257 mg/L	0.008137	36.05%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-15048
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 8/30/2014 9:10:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15048

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: MB-15048

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	516017.0	97.447	%	0.8898				0.91%
Ag 328.068†	11.2	0.00014	mg/L	0.000180	0.00014	mg/L	0.000180	131.15%
As 188.979†	0.5	0.00113	mg/L	0.003258	0.00113	mg/L	0.003258	289.44%
As 193.696†	4.3	0.00862	mg/L	0.003860	0.00862	mg/L	0.003860	44.77%
Ba 233.527†	26.9	0.00069	mg/L	0.000623	0.00069	mg/L	0.000623	89.93%
Cd 228.802†	3.1	0.00035	mg/L	0.000402	0.00035	mg/L	0.000402	113.70%
Cd 226.502†	-0.3	-0.00001	mg/L	0.000214	-0.00001	mg/L	0.000214	>999.9%
Cr 267.716†	13.6	0.00063	mg/L	0.000184	0.00063	mg/L	0.000184	29.06%
Cr 205.560†	-11.8	-0.00067	mg/L	0.000382	-0.00067	mg/L	0.000382	56.99%
Pb 220.353†	-0.4	-0.00012	mg/L	0.002535	-0.00012	mg/L	0.002535	>999.9%
Pb 217.000†	-4.0	-0.00542	mg/L	0.008223	-0.00542	mg/L	0.008223	151.74%
Se 203.985†	-0.6	-0.00143	mg/L	0.004729	-0.00143	mg/L	0.004729	330.08%
Se 196.026†	6.4	0.01327	mg/L	0.009351	0.01327	mg/L	0.009351	70.47%

Sequence No.: 17
Sample ID: LCS-15048
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 8/30/2014 9:12:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15048

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: LCS-15048

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	499242.8	94.279	%	0.3909				0.41%
Ag 328.068†	25.6	0.00031	mg/L	0.000256	0.00031	mg/L	0.000256	81.30%
As 188.979†	1.4	0.00325	mg/L	0.008280	0.00325	mg/L	0.008280	254.66%
As 193.696†	4.0	0.00798	mg/L	0.006829	0.00798	mg/L	0.006829	85.57%
Ba 233.527†	7.5	0.00019	mg/L	0.000187	0.00019	mg/L	0.000187	96.99%
Cd 228.802†	3.4	0.00039	mg/L	0.000249	0.00039	mg/L	0.000249	63.33%
Cd 226.502†	3.7	0.00014	mg/L	0.000209	0.00014	mg/L	0.000209	146.55%
Cr 267.716†	8.2	0.00038	mg/L	0.000148	0.00038	mg/L	0.000148	38.87%
Cr 205.560†	-17.5	-0.00099	mg/L	0.000261	-0.00099	mg/L	0.000261	26.27%

Pb 220.353†	-4.1	-0.00133 mg/L	0.001837	-0.00133 mg/L	0.001837	137.92%
Pb 217.000†	-2.6	-0.00346 mg/L	0.002586	-0.00346 mg/L	0.002586	74.71%
Se 203.985†	3.8	0.00854 mg/L	0.008355	0.00854 mg/L	0.008355	97.89%
Se 196.026†	-1.6	-0.00335 mg/L	0.008785	-0.00335 mg/L	0.008785	262.24%

Matrix Recovery Check: LCS-15048

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10014	0.00031	0.000	mg/L	0.2
As 188.979	0.50113	0.00325	0.008	mg/L	0.4
As 193.696	0.50862	0.00798	0.007	mg/L	-0.1
Ba 233.527	0.50069	0.00019	0.000	mg/L	-0.1
Cd 228.802	0.50035	0.00039	0.000	mg/L	0.0
Cd 226.502	0.49999	0.00014	0.000	mg/L	0.0
Cr 267.716	0.50063	0.00038	0.000	mg/L	-0.1
Cr 205.560	0.49933	-0.00099	0.000	mg/L	-0.1
Pb 220.353	0.49988	-0.00133	0.002	mg/L	-0.2
Pb 217.000	0.49458	-0.00346	0.003	mg/L	0.4
Se 203.985	0.49857	0.00854	0.008	mg/L	2.0
Se 196.026	0.51327	-0.00335	0.009	mg/L	-3.3

Sequence No.: 18
Sample ID: 1408D94-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 8/30/2014 9:13:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408D94-001A

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1408D94-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	646129.3	122.02	%	0.919				0.75%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 122.0%								
Ag 328.068†	-85.7	-0.00105	mg/L	0.000044	-0.00105	mg/L	0.000044	4.22%
As 188.979†	8.7	0.02068	mg/L	0.011305	0.02068	mg/L	0.011305	54.68%
As 193.696†	-158.4	-0.31827	mg/L	0.019651	-0.31827	mg/L	0.019651	6.17%
Ba 233.527†	68681.5	1.7722	mg/L	0.00632	1.7722	mg/L	0.00632	0.36%
Cd 228.802†	62.7	0.00716	mg/L	0.000200	0.00716	mg/L	0.000200	2.80%
Cd 226.502†	-17.9	-0.00069	mg/L	0.000160	-0.00069	mg/L	0.000160	23.20%
Cr 267.716†	4288.3	0.19885	mg/L	0.000511	0.19885	mg/L	0.000511	0.26%
Cr 205.560†	3033.4	0.17239	mg/L	0.001708	0.17239	mg/L	0.001708	0.99%
Pb 220.353†	467.0	0.15293	mg/L	0.001865	0.15293	mg/L	0.001865	1.22%
Pb 217.000†	201.0	0.26949	mg/L	0.001187	0.26949	mg/L	0.001187	0.44%
Se 203.985†	-23.6	-0.05306	mg/L	0.021544	-0.05306	mg/L	0.021544	40.60%
Se 196.026†	-26.7	-0.05529	mg/L	0.013022	-0.05529	mg/L	0.013022	23.55%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 19
Sample ID: 1408D94-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 8/30/2014 9:14:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408D94-001A 2X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1408D94-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	605420.0	114.33	%	1.114				0.97%
Ag 328.068†	-61.4	-0.00076	mg/L	0.000400	-0.00076	mg/L	0.000400	52.95%
As 188.979†	5.7	0.01361	mg/L	0.008017	0.01361	mg/L	0.008017	58.90%
As 193.696†	-100.9	-0.20266	mg/L	0.010545	-0.20266	mg/L	0.010545	5.20%
Ba 233.527†	42347.1	1.0927	mg/L	0.00292	1.0927	mg/L	0.00292	0.27%
Cd 228.802†	37.2	0.00425	mg/L	0.000629	0.00425	mg/L	0.000629	14.80%
Cd 226.502†	-22.4	-0.00086	mg/L	0.000329	-0.00086	mg/L	0.000329	38.19%
Cr 267.716†	2618.3	0.12141	mg/L	0.001463	0.12141	mg/L	0.001463	1.21%
Cr 205.560†	1845.6	0.10489	mg/L	0.002680	0.10489	mg/L	0.002680	2.56%
Pb 220.353†	292.4	0.09577	mg/L	0.003900	0.09577	mg/L	0.003900	4.07%
Pb 217.000†	105.8	0.14183	mg/L	0.005226	0.14183	mg/L	0.005226	3.68%
Se 203.985†	-28.1	-0.06333	mg/L	0.045335	-0.06333	mg/L	0.045335	71.59%
Se 196.026†	-20.8	-0.04302	mg/L	0.008100	-0.04302	mg/L	0.008100	18.83%

Sequence No.: 20
Sample ID: 1408E34-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 305
Date Collected: 8/30/2014 9:15:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E34-001A

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E34-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	592905.1	111.97	%	0.228				0.20%
Ag 328.068†	-111.0	-0.00136	mg/L	0.000241	-0.00136	mg/L	0.000241	17.67%
As 188.979†	16.2	0.03869	mg/L	0.002323	0.03869	mg/L	0.002323	6.00%
As 193.696†	-81.9	-0.16455	mg/L	0.014107	-0.16455	mg/L	0.014107	8.57%
Ba 233.527†	52666.7	1.3589	mg/L	0.00280	1.3589	mg/L	0.00280	0.21%
Cd 228.802†	-9.2	-0.00106	mg/L	0.000104	-0.00106	mg/L	0.000104	9.86%
Cd 226.502†	-175.7	-0.00676	mg/L	0.000196	-0.00676	mg/L	0.000196	2.91%
Cr 267.716†	2648.5	0.12281	mg/L	0.001007	0.12281	mg/L	0.001007	0.82%
Cr 205.560†	1846.9	0.10496	mg/L	0.001082	0.10496	mg/L	0.001082	1.03%
Pb 220.353†	147.9	0.04844	mg/L	0.001650	0.04844	mg/L	0.001650	3.41%
Pb 217.000†	77.5	0.10393	mg/L	0.006984	0.10393	mg/L	0.006984	6.72%
Se 203.985†	-22.3	-0.05025	mg/L	0.014080	-0.05025	mg/L	0.014080	28.02%
Se 196.026†	-23.6	-0.04877	mg/L	0.014144	-0.04877	mg/L	0.014144	29.00%

Sequence No.: 21
Sample ID: LCS-15048
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 201
Date Collected: 8/30/2014 9:16:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS-15048

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: LCS-15048

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	518751.4	97.963	%	2.0340				2.08%
Ag 328.068†	35.5	0.00044	mg/L	0.000101	0.00044	mg/L	0.000101	23.16%
As 188.979†	-0.3	-0.00081	mg/L	0.004988	-0.00081	mg/L	0.004988	612.50%
As 193.696†	1.6	0.00322	mg/L	0.001225	0.00322	mg/L	0.001225	38.02%
Ba 233.527†	69.9	0.00180	mg/L	0.000465	0.00180	mg/L	0.000465	25.75%

Cd 228.802†	6.3	0.00071 mg/L	0.000159	0.00071 mg/L	0.000159	22.19%
Cd 226.502†	18.8	0.00072 mg/L	0.000154	0.00072 mg/L	0.000154	21.37%
Cr 267.716†	25.8	0.00120 mg/L	0.000047	0.00120 mg/L	0.000047	3.92%
Cr 205.560†	-4.7	-0.00027 mg/L	0.001388	-0.00027 mg/L	0.001388	523.20%
Pb 220.353†	1.1	0.00035 mg/L	0.001478	0.00035 mg/L	0.001478	428.05%
Pb 217.000†	1.2	0.00158 mg/L	0.005529	0.00158 mg/L	0.005529	350.95%
Se 203.985†	-5.5	-0.01231 mg/L	0.006333	-0.01231 mg/L	0.006333	51.46%
Se 196.026†	-0.2	-0.00046 mg/L	0.017111	-0.00046 mg/L	0.017111	>999.9%

Sequence No.: 22
Sample ID: 1408E34-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 306
Date Collected: 8/30/2014 9:18:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E34-002A

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E34-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	629596.1	118.90	%	0.474				0.40%
Ag 328.068†	-202.9	-0.00249	mg/L	0.000107	-0.00249	mg/L	0.000107	4.29%
As 188.979†	29.0	0.06922	mg/L	0.011697	0.06922	mg/L	0.011697	16.90%
As 193.696†	-139.9	-0.28108	mg/L	0.005252	-0.28108	mg/L	0.005252	1.87%
Ba 233.527†	163697.5	4.2238	mg/L	0.00705	4.2238	mg/L	0.00705	0.17%
Cd 228.802†	-7.2	-0.00082	mg/L	0.000538	-0.00082	mg/L	0.000538	65.51%
Cd 226.502†	-221.8	-0.00853	mg/L	0.000269	-0.00853	mg/L	0.000269	3.15%
Cr 267.716†	3889.7	0.18037	mg/L	0.000283	0.18037	mg/L	0.000283	0.16%
Cr 205.560†	2694.6	0.15314	mg/L	0.001402	0.15314	mg/L	0.001402	0.92%
Pb 220.353†	303.0	0.09922	mg/L	0.000787	0.09922	mg/L	0.000787	0.79%
Pb 217.000†	149.1	0.19989	mg/L	0.010448	0.19989	mg/L	0.010448	5.23%
Se 203.985†	-2.8	-0.00632	mg/L	0.014620	-0.00632	mg/L	0.014620	231.27%
Se 196.026†	-28.3	-0.05853	mg/L	0.014376	-0.05853	mg/L	0.014376	24.56%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 23
Sample ID: 1408E80-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 307
Date Collected: 8/30/2014 9:19:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E80-001A

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E80-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	629313.7	118.84	%	0.327				0.28%
Ag 328.068†	219.5	0.00270	mg/L	0.000252	0.00270	mg/L	0.000252	9.35%
As 188.979†	43.1	0.10280	mg/L	0.008078	0.10280	mg/L	0.008078	7.86%
As 193.696†	-71.9	-0.14440	mg/L	0.016877	-0.14440	mg/L	0.016877	11.69%
Ba 233.527†	127771.2	3.2968	mg/L	0.00740	3.2968	mg/L	0.00740	0.22%
Cd 228.802†	59.4	0.00678	mg/L	0.000060	0.00678	mg/L	0.000060	0.88%
Cd 226.502†	-347.4	-0.01336	mg/L	0.000347	-0.01336	mg/L	0.000347	2.60%
Cr 267.716†	2245.2	0.10411	mg/L	0.000757	0.10411	mg/L	0.000757	0.73%
Cr 205.560†	758.6	0.04311	mg/L	0.000525	0.04311	mg/L	0.000525	1.22%
Pb 220.353†	2006.4	0.65711	mg/L	0.006057	0.65711	mg/L	0.006057	0.92%
Pb 217.000†	535.1	0.71755	mg/L	0.007724	0.71755	mg/L	0.007724	1.08%
Se 203.985†	-19.6	-0.04420	mg/L	0.017005	-0.04420	mg/L	0.017005	38.48%

Se 196.026†	-21.3	-0.04403 mg/L	0.006777	-0.04403 mg/L	0.006777	15.39%

Sequence No.: 24
Sample ID: 1408E80-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 308
Date Collected: 8/30/2014 9:20:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E80-001A 2X

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E80-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	587115.4	110.87	%	0.387				0.35%
Ag 328.068†	122.6	0.00151	mg/L	0.000413	0.00151	mg/L	0.000413	27.38%
As 188.979†	20.0	0.04762	mg/L	0.009747	0.04762	mg/L	0.009747	20.47%
As 193.696†	-38.1	-0.07654	mg/L	0.013245	-0.07654	mg/L	0.013245	17.30%
Ba 233.527†	74617.2	1.9253	mg/L	0.00704	1.9253	mg/L	0.00704	0.37%
Cd 228.802†	30.1	0.00343	mg/L	0.000084	0.00343	mg/L	0.000084	2.45%
Cd 226.502†	-222.6	-0.00856	mg/L	0.000004	-0.00856	mg/L	0.000004	0.05%
Cr 267.716†	1309.1	0.06070	mg/L	0.000097	0.06070	mg/L	0.000097	0.16%
Cr 205.560†	423.2	0.02405	mg/L	0.001394	0.02405	mg/L	0.001394	5.79%
Pb 220.353†	1189.4	0.38952	mg/L	0.001885	0.38952	mg/L	0.001885	0.48%
Pb 217.000†	310.5	0.41633	mg/L	0.010638	0.41633	mg/L	0.010638	2.56%
Se 203.985†	-29.7	-0.06694	mg/L	0.015451	-0.06694	mg/L	0.015451	23.08%
Se 196.026†	-10.0	-0.02078	mg/L	0.018983	-0.02078	mg/L	0.018983	91.36%

Sequence No.: 25
Sample ID: 1408E80-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 309
Date Collected: 8/30/2014 9:21:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E80-002A

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E80-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	626167.4	118.25	%	1.088				0.92%
Ag 328.068†	29.8	0.00037	mg/L	0.000056	0.00037	mg/L	0.000056	15.29%
As 188.979†	42.5	0.10135	mg/L	0.014632	0.10135	mg/L	0.014632	14.44%
As 193.696†	-66.1	-0.13289	mg/L	0.009780	-0.13289	mg/L	0.009780	7.36%
Ba 233.527†	200027.9	5.1613	mg/L	0.01288	5.1613	mg/L	0.01288	0.25%
Cd 228.802†	31.5	0.00360	mg/L	0.000260	0.00360	mg/L	0.000260	7.23%
Cd 226.502†	-270.5	-0.01040	mg/L	0.000344	-0.01040	mg/L	0.000344	3.31%
Cr 267.716†	1758.2	0.08153	mg/L	0.000684	0.08153	mg/L	0.000684	0.84%
Cr 205.560†	605.3	0.03440	mg/L	0.001156	0.03440	mg/L	0.001156	3.36%
Pb 220.353†	1921.2	0.62919	mg/L	0.005380	0.62919	mg/L	0.005380	0.86%
Pb 217.000†	532.3	0.71377	mg/L	0.004571	0.71377	mg/L	0.004571	0.64%
Se 203.985†	-17.1	-0.03850	mg/L	0.012270	-0.03850	mg/L	0.012270	31.87%
Se 196.026†	-17.2	-0.03563	mg/L	0.038890	-0.03563	mg/L	0.038890	109.14%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/30/2014 9:23:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	502897.0	94.969	%	0.6818				0.72%
Ag 328.068†	40790.0	0.50144	mg/L	0.000257	0.50144	mg/L	0.000257	0.05%
QC value within limits for Ag 328.068 Recovery = 100.29%								
As 188.979†	211.1	0.50310	mg/L	0.006932	0.50310	mg/L	0.006932	1.38%
QC value within limits for As 188.979 Recovery = 100.62%								
As 193.696†	253.5	0.50941	mg/L	0.013179	0.50941	mg/L	0.013179	2.59%
Ba 233.527†	19810.5	0.51116	mg/L	0.000544	0.51116	mg/L	0.000544	0.11%
QC value within limits for Ba 233.527 Recovery = 102.23%								
Cd 228.802†	4508.8	0.51484	mg/L	0.004667	0.51484	mg/L	0.004667	0.91%
QC value within limits for Cd 228.802 Recovery = 102.97%								
Cd 226.502†	13319.9	0.51228	mg/L	0.001585	0.51228	mg/L	0.001585	0.31%
Cr 267.716†	10986.9	0.50946	mg/L	0.001681	0.50946	mg/L	0.001681	0.33%
Cr 205.560†	8973.5	0.50997	mg/L	0.004700	0.50997	mg/L	0.004700	0.92%
QC value within limits for Cr 205.560 Recovery = 101.99%								
Pb 220.353†	1542.9	0.50532	mg/L	0.002602	0.50532	mg/L	0.002602	0.51%
QC value within limits for Pb 220.353 Recovery = 101.06%								
Pb 217.000†	374.5	0.50225	mg/L	0.009998	0.50225	mg/L	0.009998	1.99%
Se 203.985†	224.6	0.50561	mg/L	0.016981	0.50561	mg/L	0.016981	3.36%
Se 196.026†	239.5	0.49537	mg/L	0.006058	0.49537	mg/L	0.006058	1.22%
QC value within limits for Se 196.026 Recovery = 99.07%								

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/30/2014 9:24:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	515635.6	97.375	%	0.9215				0.95%
Ag 328.068†	23.2	0.00029	mg/L	0.000283	0.00029	mg/L	0.000283	99.04%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.2	0.00522	mg/L	0.004125	0.00522	mg/L	0.004125	79.06%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	3.0	0.00612	mg/L	0.005137	0.00612	mg/L	0.005137	83.96%
Ba 233.527†	20.3	0.00052	mg/L	0.000300	0.00052	mg/L	0.000300	57.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.2	-0.00026	mg/L	0.000442	-0.00026	mg/L	0.000442	172.22%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	5.1	0.00020	mg/L	0.000142	0.00020	mg/L	0.000142	72.65%
Cr 267.716†	0.2	0.00001	mg/L	0.000108	0.00001	mg/L	0.000108	>999.9%
Cr 205.560†	-21.9	-0.00125	mg/L	0.000694	-0.00125	mg/L	0.000694	55.72%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-9.5	-0.00310	mg/L	0.001806	-0.00310	mg/L	0.001806	58.23%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-3.9	-0.00524	mg/L	0.001789	-0.00524	mg/L	0.001789	34.14%
Se 203.985†	-0.4	-0.00086	mg/L	0.004626	-0.00086	mg/L	0.004626	537.87%
Se 196.026†	2.4	0.00502	mg/L	0.004843	0.00502	mg/L	0.004843	96.42%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/30/2014 9:25:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

EL 8/30/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	527411.1	99.598	%	0.2374				0.24%
Ag 328.068†	2.5	0.00003	mg/L	0.000171	0.00003	mg/L	0.000171	555.07%
As 188.979†	2.0	0.00478	mg/L	0.003689	0.00478	mg/L	0.003689	77.16%
As 193.696†	2.2	0.00439	mg/L	0.008814	0.00439	mg/L	0.008814	200.93%
Ba 233.527†	26.7	0.00069	mg/L	0.000116	0.00069	mg/L	0.000116	16.79%
Cd 228.802†	1.9	0.00022	mg/L	0.000177	0.00022	mg/L	0.000177	79.90%
Cd 226.502†	9.5	0.00037	mg/L	0.000173	0.00037	mg/L	0.000173	47.22%
Cr 267.716†	-5.0	-0.00023	mg/L	0.000290	-0.00023	mg/L	0.000290	125.65%
Cr 205.560†	-14.4	-0.00082	mg/L	0.000963	-0.00082	mg/L	0.000963	117.45%
Pb 220.353†	-7.7	-0.00251	mg/L	0.000659	-0.00251	mg/L	0.000659	26.27%
Pb 217.000†	-1.3	-0.00171	mg/L	0.003756	-0.00171	mg/L	0.003756	219.81%
Se 203.985†	1.5	0.00337	mg/L	0.015346	0.00337	mg/L	0.015346	455.09%
Se 196.026†	-4.7	-0.00963	mg/L	0.002487	-0.00963	mg/L	0.002487	25.83%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: 1408E80-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 8/30/2014 9:26:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E80-002A 2X

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1408E80-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	577404.4	109.04	%	0.686				0.63%
Ag 328.068†	4.6	0.00006	mg/L	0.000091	0.00006	mg/L	0.000091	161.75%
As 188.979†	23.6	0.05616	mg/L	0.002204	0.05616	mg/L	0.002204	3.92%
As 193.696†	-34.6	-0.06954	mg/L	0.011102	-0.06954	mg/L	0.011102	15.97%
Ba 233.527†	114520.3	2.9549	mg/L	0.00374	2.9549	mg/L	0.00374	0.13%
Cd 228.802†	12.4	0.00141	mg/L	0.000249	0.00141	mg/L	0.000249	17.62%
Cd 226.502†	-169.7	-0.00653	mg/L	0.000196	-0.00653	mg/L	0.000196	3.01%
Cr 267.716†	994.7	0.04612	mg/L	0.000776	0.04612	mg/L	0.000776	1.68%
Cr 205.560†	332.0	0.01887	mg/L	0.000788	0.01887	mg/L	0.000788	4.18%
Pb 220.353†	1099.5	0.36009	mg/L	0.001221	0.36009	mg/L	0.001221	0.34%
Pb 217.000†	285.8	0.38329	mg/L	0.006404	0.38329	mg/L	0.006404	1.67%
Se 203.985†	-29.0	-0.06529	mg/L	0.016262	-0.06529	mg/L	0.016262	24.91%
Se 196.026†	-16.0	-0.03318	mg/L	0.006372	-0.03318	mg/L	0.006372	19.21%

Sequence No.: 30
Sample ID: 1408E80-003A
Analyst: ERIC
Initial Sample Wt:

Autosampler Location: 311
Date Collected: 8/30/2014 9:28:04 AM
Data Type: Original
Initial Sample Vol:

Run No.: 20930

ICP-OES Analysis Summary

Data Imported By: JWF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: I575

Results Data Set: 090214 B15045 Prep Batch ID: B15045

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Calibration

	Standard ID		Standard ID		Standard ID
ST1	ST6010- 14379	ST5	ST6010- 14357	ICV	ST6010- 14375
ST2	ST6010- 14354	ST6	ST6010-	ICV CAT	ST6010- JWF 9/2/14
ST3 (CCV)	ST6010- 14355	ST7 (CCV CAT)	ST6010- JWF 9/2/14	ICS ELEM	ST6010- 14371
ST4	ST6010- 14386	ST8	ST6010-	ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14257	Custom Spike ~~1401102~~	~~100µL~~ 50mL JWF 9/4/14	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 50ml	Wt DI (g): 0.0495	Rm Temp (°C): 20.0	Analyst: JWF
Pipette No: P30	Spike Volume: 500ml	Wt DI (g): 0.5005	Rm Temp (°C): 20.0	Analyst: JWF
Pipette No: P35	Spike Volume: 1ml	Wt DI (g): 1.0009	Rm Temp (°C): 20.0	Analyst: JWF
Pipette No:	Spike Volume:	Wt DI (g):	Rm Temp (°C):	Analyst:

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Pb	1405E50-005A	0.34331	0.9974	50	5	86.05	mg/Kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist
Pb	1405E50-005A	~~0.34331~~ 86.05 mg/kg	8.269

JWF 9/2/14

Dry-Wt calculation: Reported Result / (1 − (PMoist / 100)) = Result

0.91731

Result: 93.81 mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.116 × MgResult = Result mg/L

Analyst/Date: JWF 9/2/14 Qa'd by/Date: DS 9/3/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: a/ and l.l.

Analytical Sequence

Method : ISIS 080714 6010SOIL

Col #1

Notations by inputting analyst
JVF 9/2/14

Seq.	Loc.		Sample ID	Status
1	1		Calib Blank 1	Applied
2	408		ST1	Applied
3	409		ST2	Applied
4	2		ST3	Applied
5	410		ST4	Applied
6	413		ST5	Applied
7	411		ST6	
8	3		ST7	
9	412		ST8	
10	401	QC	ICV	QC Passed
11	402	QC	ICV CAT	
12	1	QC	ICB	QC Passed
13	408	QC	PQL CHECK	QC Failed
14	408	QC	PQL CHECK	QC Passed
15	403	QC	ICS ELEM	QC Passed
16	404	QC	ICS	QC Passed
17	101		MB-15045	Analyzed
18	102		LCS-15045	Analyzed
19	103		1408E34-001A	Analyzed
20	104		1408E34-002A	Samp Limit Failed
21	105		1408D94-001A	Analyzed
22	106		1408F68-001A	Analyzed
23	107		1408F68-002A	Analyzed
24	108		1408E80-001A	Analyzed
25	12		BLANK	
26	12		BLANK	
27	2	QC	CCV	QC Passed
28	1	QC	CCB	QC Failed
29	1	QC	CCB	QC Failed Bad
30	3	QC	CCV CAT	Analyzed
31	109		1408E80-002A	Analyzed
32	110		1408E80-003A	Analyzed
33	111		1408E80-003AMS	Analyzed
34	112		1408E80-003AMSD	Analyzed
35	113		1408E80-004A	Analyzed
36	114		1408E80-005A	Analyzed
37	115		1408E80-006A	Analyzed
38	116		1408E80-007A	Analyzed
39	117		1408F01-001A	Analyzed
40	118		1408E80-003APS	Analyzed
41	2	QC	CCV	QC Passed
42	1	QC	CCB	QC Passed
43	3	QC	CCV CAT	Analyzed
44	119		1408E80-005A 5X	Analyzed
45	120		1408E80-006A 5X	Analyzed
46	2	QC	CCV	QC Passed
47	1	QC	CCB	QC Passed
48	3	QC	CCV CAT	
49	7	QC	DI RINSE	

Sample Information Detail Report
Document Name: 090214 B15045

File Description
Hall Design

Parameters Common to All Samples

Batch ID	090214 B15045
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

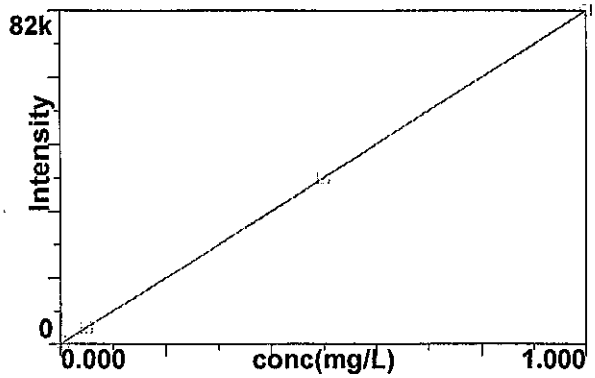
Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-15045	MBLK
2	102	LCS-15045	LCS
3	103	1408E34-001A	SAMP
4	104	1408E34-002A	SAMP
5	105	1408D94-001A	SAMP
6	106	1408F68-001A	SAMP
7	107	1408F68-002A	SAMP
8	108	1408E80-001A	SAMP
9	109	1408E80-002A	SAMP
10	110	1408E80-003A	SAMP
11	111	1408E80-003AMS	MS
12	112	1408E80-003AMSD	MSD
13	113	1408E80-004A	SAMP
14	114	1408E80-005A	SAMP
15	115	1408E80-006A	SAMP
16	116	1408E80-007A	SAMP
17	117	1408F01-001A	SAMP
18	118	1408E80-003APS	PS
19	119	1408E80-005A 5X	SAMP
20	120	1408E80-006A 5X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL		
5	METALS_SOIL		
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL	Recovery 1 of 10	
12	METALS_SOIL	Recovery 1 of 10	
13	METALS_SOIL		
14	METALS_SOIL		
15	METALS_SOIL		
16	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL	Recovery 1 of 10	
19	METALS_SOIL		
20	METALS_SOIL		

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Ag 328.068



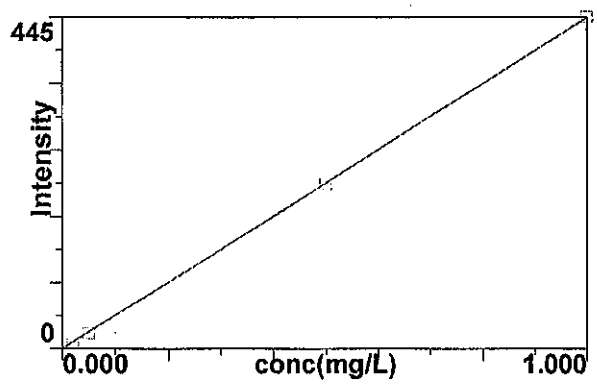
Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

1

Al 396.153

2

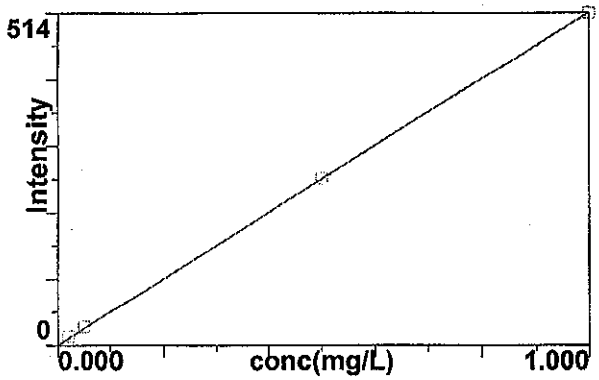
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999986

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999975

4

B 249.772

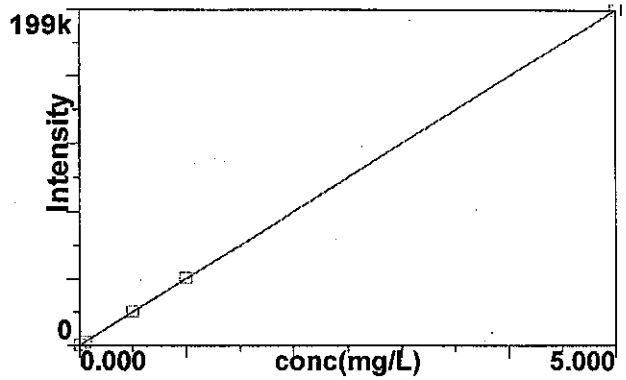
5

B 249.677

6

Method: ISIS 080714 6010SOIL
Result: 090214 B15045

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

7

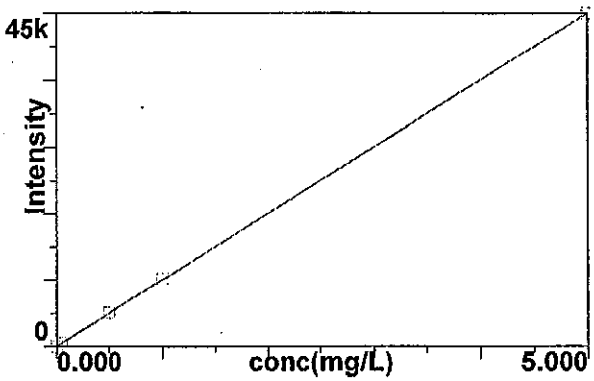
Be 313.107

8

Ca 317.933

9

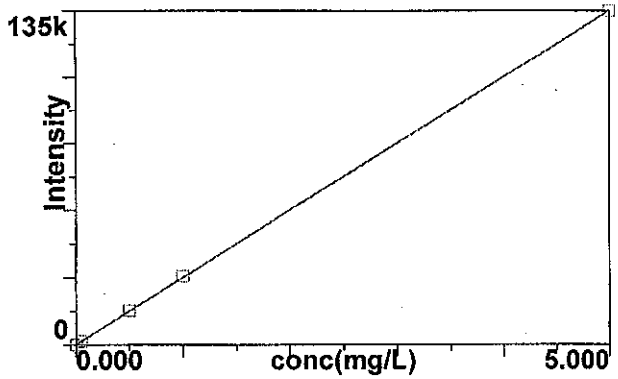
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

10

Cd 226.502



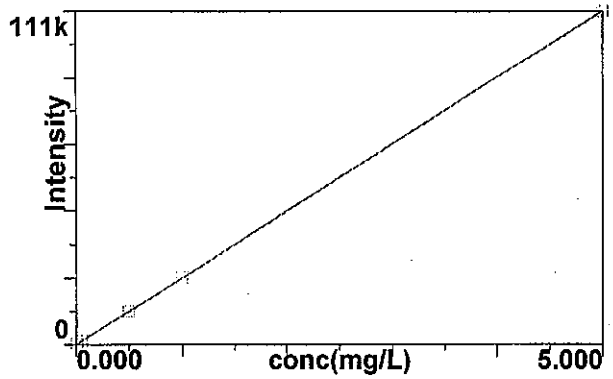
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

11

Co 228.616

12

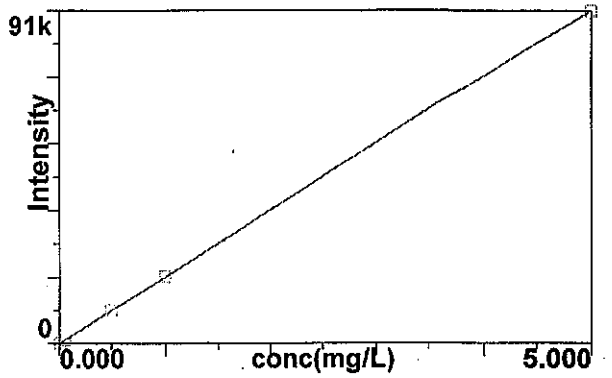
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

14

Cu 324.752

15

Fe 238.204

16

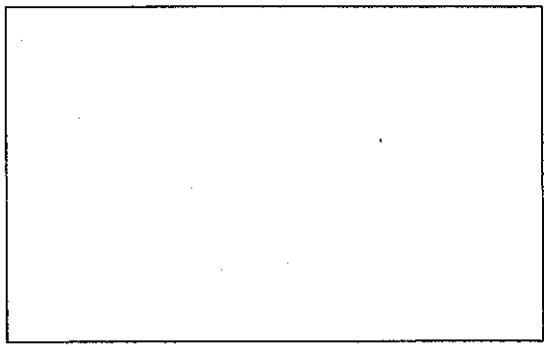
K 766.490

17

Mg 285.213

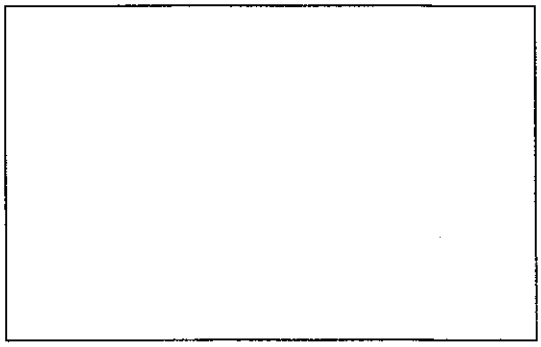
18

Mn 257.610



19

Mo 202.031



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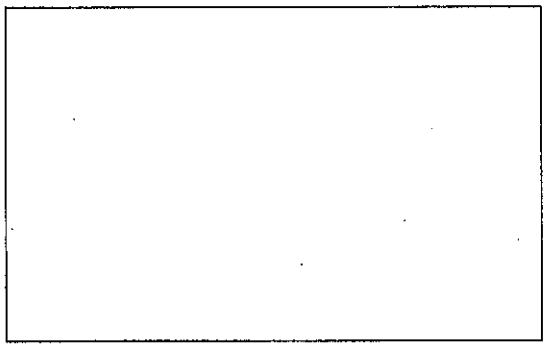
Na 589.592



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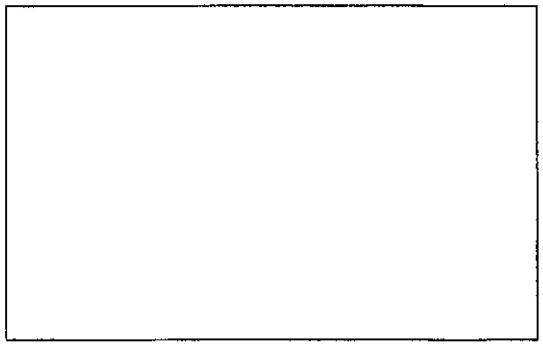
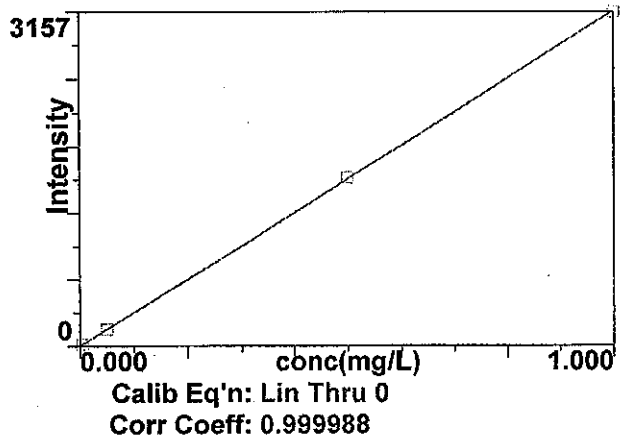
Ni 231.604



22

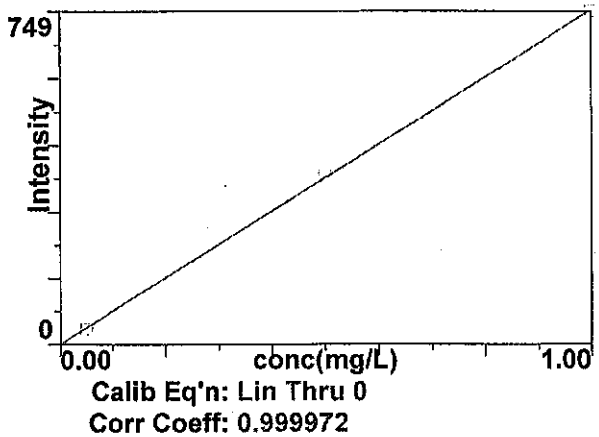
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999988

23

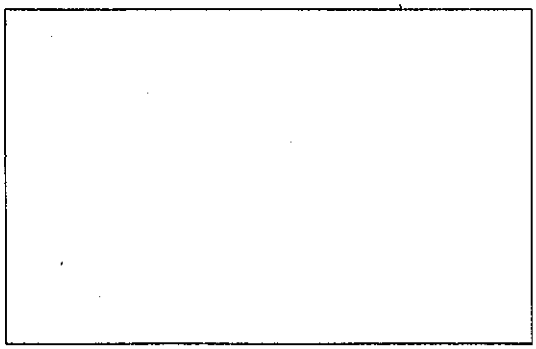
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999972

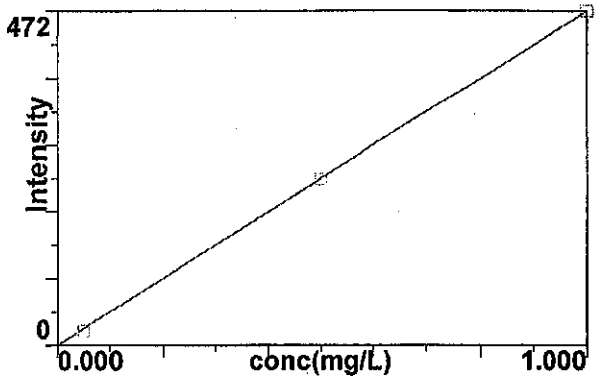
24

Sb 206.836



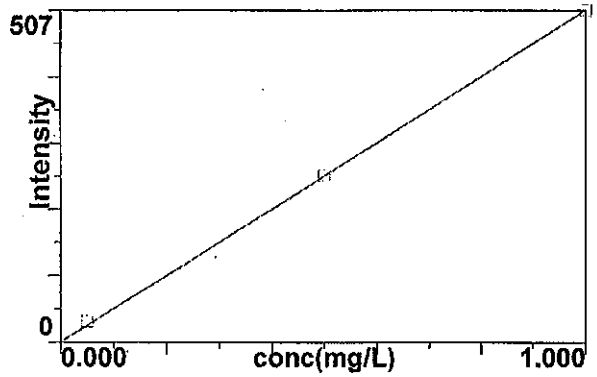
25

Se 203.985



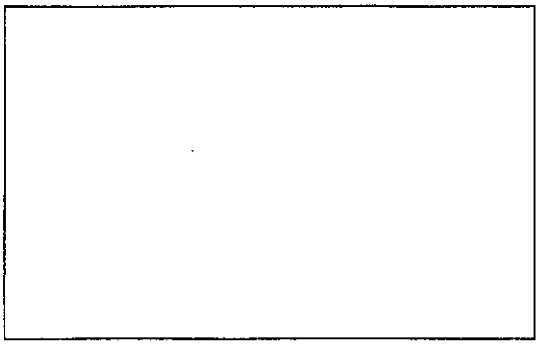
26

Se 196.026



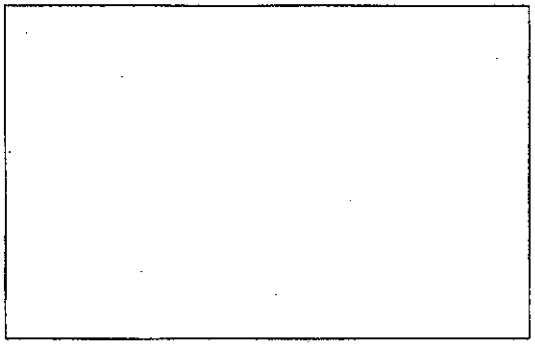
27

Si 212.412



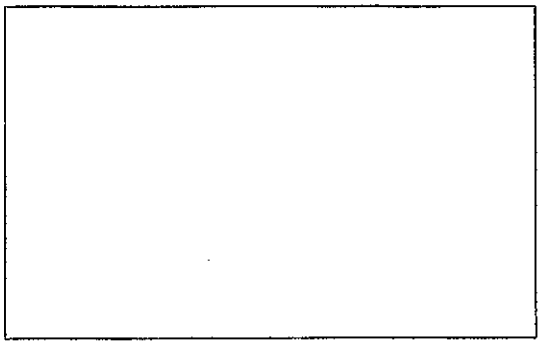
28

Sn 189.927



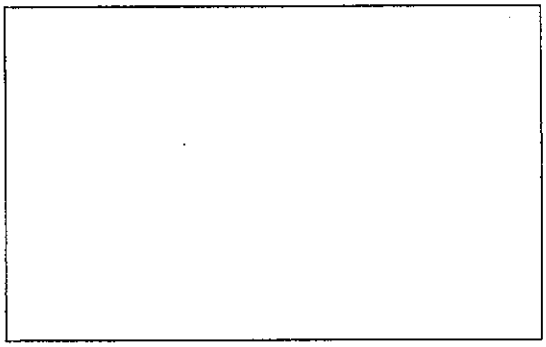
29

Ti 334.940



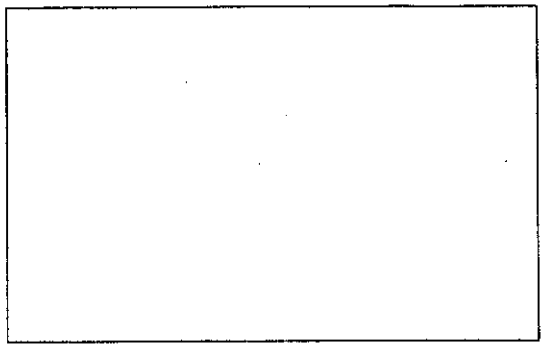
30

Tl 190.801



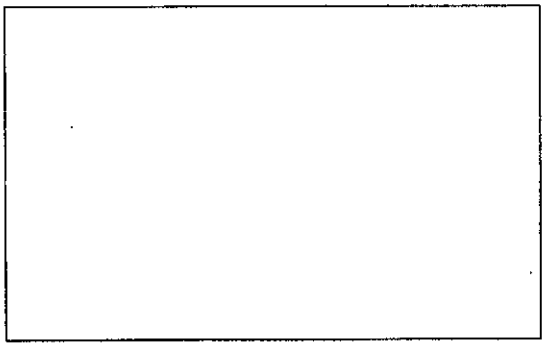
31

U 385.958



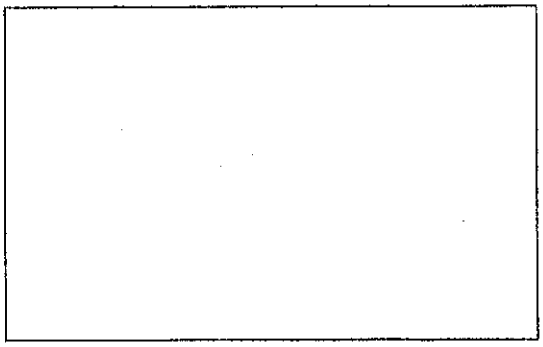
32

V 292.402



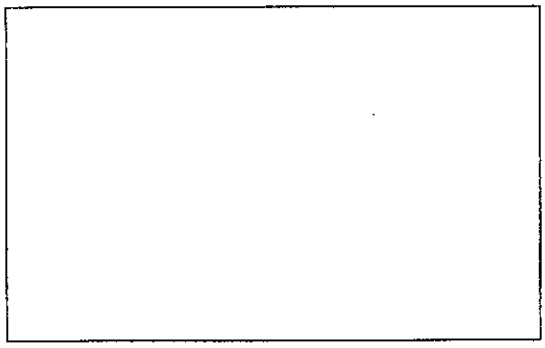
33

Zn 206.200



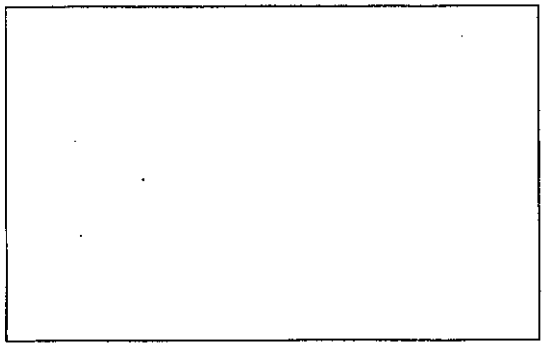
36

Sr 421.552



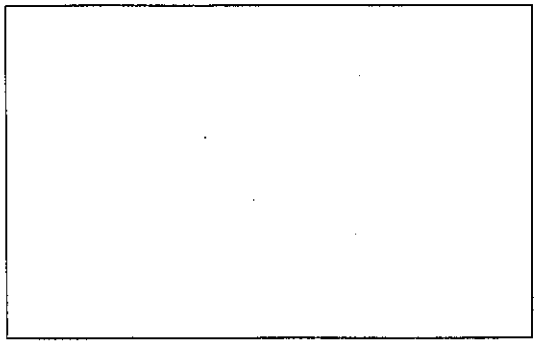
37

Sr 421.552 R



38

U 424.167



39

Analysis Begun

Start Time: 9/2/2014 12:08:14 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/2/2014 8:41:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090214 B15045.sif
Batch ID: 090214 B15045
Results Data Set: 090214 B15045
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/2/2014 12:08:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	572316.0	5263.64	0.92%	100.00	%
Ag 328.068†	16.7	10.97	65.82%	[0.00]	mg/L
As 188.979†	9.3	1.15	12.39%	[0.00]	mg/L
As 193.696†	-7.3	3.15	43.03%	[0.00]	mg/L
Ba 233.527†	8.8	7.55	85.49%	[0.00]	mg/L
Cd 228.802†	-17.7	0.53	2.99%	[0.00]	mg/L
Cd 226.502†	26.3	7.03	26.76%	[0.00]	mg/L
Cr 267.716†	-6.8	3.26	47.69%	[0.00]	mg/L
Cr 205.560†	-23.8	17.12	71.90%	[0.00]	mg/L
Pb 220.353†	-21.2	3.22	15.21%	[0.00]	mg/L
Pb 217.000†	7.5	3.79	50.71%	[0.00]	mg/L
Se 203.985†	4.5	2.18	48.74%	[0.00]	mg/L
Se 196.026†	-15.6	9.06	57.95%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 9/2/2014 12:09:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	562038.1	2654.64	0.47%	98.204	%
Ag 328.068†	438.1	19.25	4.39%	[0.005]	mg/L
As 188.979†	7.4	2.50	33.86%	[0.02]	mg/L

As 193.696†	13.0	2.88	22.14%	[0.02]	mg/L
Ba 233.527†	104.6	10.98	10.50%	[0.002]	mg/L
Cd 228.802†	20.8	2.71	13.01%	[0.002]	mg/L
Cd 226.502†	46.9	6.64	14.16%	[0.002]	mg/L
Cr 267.716†	140.3	4.90	3.49%	[0.006]	mg/L
Cr 205.560†	100.7	12.08	12.00%	[0.006]	mg/L
Pb 220.353†	15.9	5.37	33.86%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 9/2/2014 12:10:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	564115.8	3943.47	0.70%	98.567	%
Ag 328.068†	4047.7	44.18	1.09%	[0.05]	mg/L
As 188.979†	20.4	2.60	12.73%	[0.050]	mg/L
As 193.696†	28.5	0.64	2.26%	[0.050]	mg/L
Ba 233.527†	2055.1	1.77	0.09%	[0.05]	mg/L
Cd 228.802†	468.8	4.14	0.88%	[0.05]	mg/L
Cd 226.502†	1377.7	10.11	0.73%	[0.05]	mg/L
Cr 267.716†	1140.0	14.30	1.25%	[0.05]	mg/L
Cr 205.560†	910.4	22.17	2.44%	[0.05]	mg/L
Pb 220.353†	159.4	9.03	5.67%	[0.05]	mg/L
Pb 217.000†	35.0	5.36	15.30%	[0.05]	mg/L
Se 203.985†	20.4	4.03	19.78%	[0.050]	mg/L
Se 196.026†	31.4	1.64	5.23%	[0.050]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/2/2014 12:12:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	564451.6	2166.45	0.38%	98.626	%
Ag 328.068†	40793.7	105.73	0.26%	[0.50]	mg/L
As 188.979†	221.1	3.19	1.44%	[0.50]	mg/L
As 193.696†	258.1	3.79	1.47%	[0.50]	mg/L
Ba 233.527†	20270.1	36.63	0.18%	[0.50]	mg/L
Cd 228.802†	4577.8	13.88	0.30%	[0.50]	mg/L
Cd 226.502†	13777.1	29.17	0.21%	[0.50]	mg/L
Cr 267.716†	11206.7	36.15	0.32%	[0.50]	mg/L
Cr 205.560†	9157.4	56.81	0.62%	[0.50]	mg/L
Pb 220.353†	1597.5	13.75	0.86%	[0.50]	mg/L
Pb 217.000†	381.1	8.70	2.28%	[0.50]	mg/L
Se 203.985†	234.6	6.61	2.82%	[0.50]	mg/L
Se 196.026†	254.1	6.01	2.37%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 9/2/2014 12:13:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	567315.6	3253.76	0.57%	99.126	%
Ag 328.068†	81647.6	55.88	0.07%	[1.00]	mg/L
As 188.979†	445.0	7.58	1.70%	[1.00]	mg/L
As 193.696†	513.8	6.57	1.28%	[1.00]	mg/L
Ba 233.527†	40339.2	35.16	0.09%	[1.00]	mg/L
Cd 228.802†	9063.5	60.60	0.67%	[1.00]	mg/L
Cd 226.502†	27477.0	70.44	0.26%	[1.00]	mg/L
Cr 267.716†	22372.3	52.57	0.23%	[1.00]	mg/L
Cr 205.560†	18294.5	31.38	0.17%	[1.00]	mg/L
Pb 220.353†	3156.8	7.27	0.23%	[1.00]	mg/L
Pb 217.000†	749.3	6.73	0.90%	[1.00]	mg/L
Se 203.985†	471.8	10.19	2.16%	[1.00]	mg/L
Se 196.026†	506.5	2.91	0.57%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 9/2/2014 12:14:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	561712.9	1466.07	0.26%	98.147	%
Ba 233.527†	199050.7	458.23	0.23%	[5.00]	mg/L
Cd 228.802†	44736.3	112.81	0.25%	[5.00]	mg/L
Cd 226.502†	135068.8	84.91	0.06%	[5.00]	mg/L
Cr 267.716†	110628.9	206.60	0.19%	[5.00]	mg/L
Cr 205.560†	90580.6	107.16	0.12%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	81630	0.00000	1.000000	
As 188.979	4	Lin Thru 0	0.0	444.3	0.00000	0.999986	
As 193.696	4	Lin Thru 0	0.0	514.4	0.00000	0.999975	
Ba 233.527	5	Lin Thru 0	0.0	39840	0.00000	0.999995	
Cd 228.802	5	Lin Thru 0	0.0	8954	0.00000	0.999994	
Cd 226.502	5	Lin Thru 0	0.0	27040	0.00000	0.999993	
Cr 267.716	5	Lin Thru 0	0.0	22140	0.00000	0.999997	
Cr 205.560	5	Lin Thru 0	0.0	18120	0.00000	0.999998	
Pb 220.353	4	Lin Thru 0	0.0	3164	0.00000	0.999988	
Pb 217.000	3	Lin Thru 0	0.0	751.8	0.00000	0.999972	
Se 203.985	3	Lin Thru 0	0.0	471.2	0.00000	0.999980	

Se 196.026 3 Lin Thru 0 0.0 507.1 0.00000 0.999941
User canceled analysis.

Analysis Begun

Start Time: 9/2/2014 12:15:50 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/2/2014 8:41:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090214 B15045.sif
Batch ID: 090214 B15045
Results Data Set: 090214 B15045
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 9/2/2014 12:15:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	565695.8	98.843	%	1.1929				1.21%
Ag 328.068†	40685.8	0.49839	mg/L	0.000481	0.49839	mg/L	0.000481	0.10%
QC value within limits for Ag 328.068 Recovery = 99.68%								
As 188.979†	222.7	0.50111	mg/L	0.011679	0.50111	mg/L	0.011679	2.33%
QC value within limits for As 188.979 Recovery = 100.22%								
As 193.696†	260.5	0.50633	mg/L	0.007354	0.50633	mg/L	0.007354	1.45%
Ba 233.527†	20272.6	0.50888	mg/L	0.001164	0.50888	mg/L	0.001164	0.23%
QC value within limits for Ba 233.527 Recovery = 101.78%								
Cd 228.802†	4524.5	0.50532	mg/L	0.004045	0.50532	mg/L	0.004045	0.80%
QC value within limits for Cd 228.802 Recovery = 101.06%								
Cd 226.502†	13698.8	0.50668	mg/L	0.000664	0.50668	mg/L	0.000664	0.13%
Cr 267.716†	11128.8	0.50270	mg/L	0.000883	0.50270	mg/L	0.000883	0.18%
Cr 205.560†	9030.0	0.49821	mg/L	0.003678	0.49821	mg/L	0.003678	0.74%
QC value within limits for Cr 205.560 Recovery = 99.64%								
Pb 220.353†	1607.4	0.50795	mg/L	0.004068	0.50795	mg/L	0.004068	0.80%
QC value within limits for Pb 220.353 Recovery = 101.59%								
Pb 217.000†	377.1	0.50165	mg/L	0.012360	0.50165	mg/L	0.012360	2.46%
Se 203.985†	232.3	0.49310	mg/L	0.022080	0.49310	mg/L	0.022080	4.48%
Se 196.026†	263.8	0.52018	mg/L	0.015119	0.52018	mg/L	0.015119	2.91%
QC value within limits for Se 196.026 Recovery = 104.04%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/2/2014 12:17:05 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/2/2014 8:41:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090214 B15045.sif
Batch ID: 090214 B15045
Results Data Set: 090214 B15045
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Autosampler Location: 1
Date Collected: 9/2/2014 12:17:05 PM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	573613.4	100.23	%	0.213				0.21%
Ag 328.068†	32.6	0.00040	mg/L	0.000074	0.00040	mg/L	0.000074	18.52%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.8	-0.00394	mg/L	0.008176	-0.00394	mg/L	0.008176	207.26%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.0	0.00192	mg/L	0.005180	0.00192	mg/L	0.005180	270.48%
Ba 233.527†	21.9	0.00055	mg/L	0.000409	0.00055	mg/L	0.000409	74.46%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	8.6	0.00096	mg/L	0.000427	0.00096	mg/L	0.000427	44.73%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	7.7	0.00028	mg/L	0.000181	0.00028	mg/L	0.000181	63.42%
Cr 267.716†	14.0	0.00063	mg/L	0.000137	0.00063	mg/L	0.000137	21.59%
Cr 205.560†	17.9	0.00099	mg/L	0.000459	0.00099	mg/L	0.000459	46.39%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	1.1	0.00035	mg/L	0.002829	0.00035	mg/L	0.002829	816.20%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	1.9	0.00257	mg/L	0.001319	0.00257	mg/L	0.001319	51.33%
Se 203.985†	1.9	0.00413	mg/L	0.016204	0.00413	mg/L	0.016204	392.48%
Se 196.026†	9.7	0.01913	mg/L	0.013677	0.01913	mg/L	0.013677	71.49%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 9/2/2014 12:18:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	563463.3	98.453	%	0.3990				0.41%
Ag 328.068†	426.1	0.00522	mg/L	0.000106	0.00522	mg/L	0.000106	2.03%
QC value within limits for Ag 328.068 Recovery = 104.40%								
As 188.979†	7.7	0.01729	mg/L	0.001764	0.01729	mg/L	0.001764	10.20%
QC value within limits for As 188.979 Recovery = 86.46%								
As 193.696†	11.9	0.02310	mg/L	0.007279	0.02310	mg/L	0.007279	31.51%
Ba 233.527†	92.4	0.00232	mg/L	0.000201	0.00232	mg/L	0.000201	8.68%
QC value within limits for Ba 233.527 Recovery = 115.93%								
Cd 228.802†	22.8	0.00255	mg/L	0.000117	0.00255	mg/L	0.000117	4.59%
QC value within limits for Cd 228.802 Recovery = 127.38%								
Cd 226.502†	53.3	0.00197	mg/L	0.000060	0.00197	mg/L	0.000060	3.05%
Cr 267.716†	143.7	0.00649	mg/L	0.000197	0.00649	mg/L	0.000197	3.04%
Cr 205.560†	103.7	0.00572	mg/L	0.000417	0.00572	mg/L	0.000417	7.29%
QC value within limits for Cr 205.560 Recovery = 95.40%								
Pb 220.353†	24.4	0.00772	mg/L	0.001496	0.00772	mg/L	0.001496	19.39%
QC value greater than the upper limit for Pb 220.353 Recovery = 154.30%								
Pb 217.000†	-1.6	-0.00208	mg/L	0.003109	-0.00208	mg/L	0.003109	149.14%

Se 203.985†	18.8	0.03989 mg/L	0.020691	0.03989 mg/L	0.020691	51.87%
Se 196.026†	24.3	0.04793 mg/L	0.014966	0.04793 mg/L	0.014966	31.23%

QC value within limits for Se 196.026 Recovery = 95.85%
QC Failed. Retry.

Sequence No.: 14
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 9/2/2014 12:19:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	560976.9	98.019	%	0.2481				0.25%
Ag 328.068†	415.9	0.00509	mg/L	0.000243	0.00509	mg/L	0.000243	4.77%
QC value within limits for Ag 328.068 Recovery = 101.89%								
As 188.979†	7.6	0.01703	mg/L	0.008921	0.01703	mg/L	0.008921	52.39%
QC value within limits for As 188.979 Recovery = 85.14%								
As 193.696†	8.3	0.01623	mg/L	0.009214	0.01623	mg/L	0.009214	56.77%
Ba 233.527†	83.1	0.00209	mg/L	0.000772	0.00209	mg/L	0.000772	37.02%
QC value within limits for Ba 233.527 Recovery = 104.29%								
Cd 228.802†	25.0	0.00279	mg/L	0.000304	0.00279	mg/L	0.000304	10.92%
QC value within limits for Cd 228.802 Recovery = 139.34%								
Cd 226.502†	62.1	0.00230	mg/L	0.000111	0.00230	mg/L	0.000111	4.83%
Cr 267.716†	138.5	0.00626	mg/L	0.000092	0.00626	mg/L	0.000092	1.47%
Cr 205.560†	104.9	0.00579	mg/L	0.000622	0.00579	mg/L	0.000622	10.75%
QC value within limits for Cr 205.560 Recovery = 96.49%								
Pb 220.353†	19.0	0.00599	mg/L	0.002541	0.00599	mg/L	0.002541	42.40%
QC value within limits for Pb 220.353 Recovery = 119.87%								
Pb 217.000†	4.2	0.00561	mg/L	0.011129	0.00561	mg/L	0.011129	198.34%
Se 203.985†	16.9	0.03594	mg/L	0.012163	0.03594	mg/L	0.012163	33.84%
Se 196.026†	28.7	0.05657	mg/L	0.019790	0.05657	mg/L	0.019790	34.98%
QC value within limits for Se 196.026 Recovery = 113.13%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/2/2014 12:20:49 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 9/2/2014 8:41:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090214 B15045.sif
Batch ID: 090214 B15045
Results Data Set: 090214 B15045
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 15
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 403
Date Collected: 9/2/2014 12:20:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	563607.4	98.478	%	0.3971				0.40%
Ag 328.068†	42091.3	0.51561	mg/L	0.001735	0.51561	mg/L	0.001735	0.34%
QC value within limits for Ag 328.068 Recovery = 103.12%								
As 188.979†	234.7	0.52816	mg/L	0.008661	0.52816	mg/L	0.008661	1.64%
QC value within limits for As 188.979 Recovery = 105.63%								
As 193.696†	233.6	0.45415	mg/L	0.012906	0.45415	mg/L	0.012906	2.84%
Ba 233.527†	20225.3	0.50770	mg/L	0.001154	0.50770	mg/L	0.001154	0.23%
QC value within limits for Ba 233.527 Recovery = 101.54%								
Cd 228.802†	4785.3	0.53444	mg/L	0.001479	0.53444	mg/L	0.001479	0.28%
QC value within limits for Cd 228.802 Recovery = 106.89%								
Cd 226.502†	14075.4	0.52060	mg/L	0.001208	0.52060	mg/L	0.001208	0.23%
Cr 267.716†	11113.2	0.50200	mg/L	0.001392	0.50200	mg/L	0.001392	0.28%
Cr 205.560†	9010.5	0.49714	mg/L	0.002108	0.49714	mg/L	0.002108	0.42%
QC value within limits for Cr 205.560 Recovery = 99.43%								
Pb 220.353†	1556.2	0.49175	mg/L	0.004240	0.49175	mg/L	0.004240	0.86%
QC value within limits for Pb 220.353 Recovery = 98.35%								
Pb 217.000†	403.4	0.53657	mg/L	0.009015	0.53657	mg/L	0.009015	1.68%
Se 203.985†	233.2	0.49493	mg/L	0.017821	0.49493	mg/L	0.017821	3.60%
Se 196.026†	265.9	0.52426	mg/L	0.004609	0.52426	mg/L	0.004609	0.88%
QC value within limits for Se 196.026 Recovery = 104.85%								

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 9/2/2014 12:22:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	567689.5	99.192	%	0.1798				0.18%
Ag 328.068†	15.9	0.00020	mg/L	0.000153	0.00020	mg/L	0.000153	78.59%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.0	0.00215	mg/L	0.005792	0.00215	mg/L	0.005792	269.61%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-42.6	-0.08281	mg/L	0.001531	-0.08281	mg/L	0.001531	1.85%
Ba 233.527†	40.6	0.00102	mg/L	0.000432	0.00102	mg/L	0.000432	42.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.4	-0.00027	mg/L	0.000193	-0.00027	mg/L	0.000193	71.54%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-4.9	-0.00018	mg/L	0.000131	-0.00018	mg/L	0.000131	72.50%
Cr 267.716†	17.9	0.00081	mg/L	0.000407	0.00081	mg/L	0.000407	50.37%
Cr 205.560†	-78.5	-0.00433	mg/L	0.000410	-0.00433	mg/L	0.000410	9.47%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-43.0	-0.01358	mg/L	0.002023	-0.01358	mg/L	0.002023	14.89%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	16.5	0.02193	mg/L	0.004271	0.02193	mg/L	0.004271	19.48%
Se 203.985†	-37.8	-0.08024	mg/L	0.003542	-0.08024	mg/L	0.003542	4.41%
Se 196.026†	-14.7	-0.02894	mg/L	0.003631	-0.02894	mg/L	0.003631	12.55%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 17
Sample ID: MB-15045
Analyst: JORGE
Initial Sample Wt:

Autosampler Location: 101
Date Collected: 9/2/2014 12:23:13 PM
Data Type: Original
Initial Sample Vol:

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15045

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: MB-15045

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	535309.2	93.534	%	0.1493				0.16%
Ag 328.068†	27.4	0.00034	mg/L	0.000057	0.00034	mg/L	0.000057	17.09%
As 188.979†	-2.1	-0.00481	mg/L	0.004927	-0.00481	mg/L	0.004927	102.46%
As 193.696†	0.7	0.00133	mg/L	0.005037	0.00133	mg/L	0.005037	378.86%
Ba 233.527†	19.7	0.00050	mg/L	0.000307	0.00050	mg/L	0.000307	61.93%
Cd 228.802†	4.5	0.00050	mg/L	0.000098	0.00050	mg/L	0.000098	19.59%
Cd 226.502†	-5.6	-0.00021	mg/L	0.000133	-0.00021	mg/L	0.000133	64.44%
Cr 267.716†	20.1	0.00091	mg/L	0.000424	0.00091	mg/L	0.000424	46.61%
Cr 205.560†	-8.0	-0.00044	mg/L	0.000907	-0.00044	mg/L	0.000907	205.22%
Pb 220.353†	8.3	0.00261	mg/L	0.003451	0.00261	mg/L	0.003451	132.34%
Pb 217.000†	1.6	0.00213	mg/L	0.009698	0.00213	mg/L	0.009698	456.11%
Se 203.985†	-8.7	-0.01837	mg/L	0.013929	-0.01837	mg/L	0.013929	75.81%
Se 196.026†	4.5	0.00888	mg/L	0.007356	0.00888	mg/L	0.007356	82.86%

Sequence No.: 18
Sample ID: LCS-15045
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 102
Date Collected: 9/2/2014 12:24:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15045

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: LCS-15045

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	529406.9	92.503	%	0.8844				0.96%
Ag 328.068†	40558.4	0.49683	mg/L	0.001115	0.49683	mg/L	0.001115	0.22%
As 188.979†	218.3	0.49125	mg/L	0.001842	0.49125	mg/L	0.001842	0.38%
As 193.696†	254.2	0.49423	mg/L	0.007994	0.49423	mg/L	0.007994	1.62%
Ba 233.527†	19485.9	0.48914	mg/L	0.001056	0.48914	mg/L	0.001056	0.22%
Cd 228.802†	4389.3	0.49022	mg/L	0.003810	0.49022	mg/L	0.003810	0.78%
Cd 226.502†	13132.3	0.48572	mg/L	0.001328	0.48572	mg/L	0.001328	0.27%
Cr 267.716†	11014.8	0.49755	mg/L	0.000115	0.49755	mg/L	0.000115	0.02%
Cr 205.560†	8923.5	0.49234	mg/L	0.004660	0.49234	mg/L	0.004660	0.95%
Pb 220.353†	1509.8	0.47711	mg/L	0.004098	0.47711	mg/L	0.004098	0.86%
Pb 217.000†	367.3	0.48851	mg/L	0.012574	0.48851	mg/L	0.012574	2.57%
Se 203.985†	190.3	0.40391	mg/L	0.010214	0.40391	mg/L	0.010214	2.53%
Se 196.026†	241.5	0.47632	mg/L	0.012833	0.47632	mg/L	0.012833	2.69%

Matrix Recovery Check: LCS-15045

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10034	0.49683	0.001	mg/L	496.5
As 188.979	0.49519	0.49125	0.002	mg/L	99.2
As 193.696	0.50133	0.49423	0.008	mg/L	98.6
Ba 233.527	0.50050	0.48914	0.001	mg/L	97.7
Cd 228.802	0.50050	0.49022	0.004	mg/L	97.9
Cd 226.502	0.49979	0.48572	0.001	mg/L	97.2
Cr 267.716	0.50091	0.49755	0.000	mg/L	99.3
Cr 205.560	0.49956	0.49234	0.005	mg/L	98.6
Pb 220.353	0.50261	0.47711	0.004	mg/L	94.9

Pb 217.000	0.50213	0.48851	0.013	mg/L	97.3
Se 203.985	0.48163	0.40391	0.010	mg/L	84.5
Se 196.026	0.50888	0.47632	0.013	mg/L	93.5

Sequence No.: 19
Sample ID: 1408E34-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 103
Date Collected: 9/2/2014 12:25:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E34-001A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1408E34-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	579990.9	101.34	%	0.879				0.87%
Ag 328.068†	-85.3	-0.00104	mg/L	0.000563	-0.00104	mg/L	0.000563	53.87%
As 188.979†	14.7	0.03308	mg/L	0.009410	0.03308	mg/L	0.009410	28.45%
As 193.696†	-92.7	-0.18013	mg/L	0.007555	-0.18013	mg/L	0.007555	4.19%
Ba 233.527†	59560.2	1.4951	mg/L	0.00190	1.4951	mg/L	0.00190	0.13%
Cd 228.802†	-5.8	-0.00065	mg/L	0.000124	-0.00065	mg/L	0.000124	19.16%
Cd 226.502†	-186.8	-0.00691	mg/L	0.000197	-0.00691	mg/L	0.000197	2.85%
Cr 267.716†	2717.8	0.12277	mg/L	0.001260	0.12277	mg/L	0.001260	1.03%
Cr 205.560†	1912.1	0.10550	mg/L	0.001510	0.10550	mg/L	0.001510	1.43%
Pb 220.353†	163.3	0.05161	mg/L	0.002477	0.05161	mg/L	0.002477	4.80%
Pb 217.000†	83.5	0.11110	mg/L	0.003501	0.11110	mg/L	0.003501	3.15%
Se 203.985†	-39.9	-0.08476	mg/L	0.011250	-0.08476	mg/L	0.011250	13.27%
Se 196.026†	-16.5	-0.03255	mg/L	0.010252	-0.03255	mg/L	0.010252	31.49%

Sequence No.: 20
Sample ID: 1408E34-002A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 104
Date Collected: 9/2/2014 12:26:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E34-002A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1408E34-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	641768.6	112.14	%	0.948				0.85%
Ag 328.068†	-210.5	-0.00258	mg/L	0.000200	-0.00258	mg/L	0.000200	7.75%
As 188.979†	24.6	0.05528	mg/L	0.003361	0.05528	mg/L	0.003361	6.08%
As 193.696†	-149.5	-0.29067	mg/L	0.005315	-0.29067	mg/L	0.005315	1.83%
Ba 233.527†	74737.8	1.8761	mg/L	0.00298	1.8761	mg/L	0.00298	0.16%
Cd 228.802†	-1.7	-0.00019	mg/L	0.000333	-0.00019	mg/L	0.000333	171.70%
Cd 226.502†	-233.2	-0.00863	mg/L	0.000137	-0.00863	mg/L	0.000137	1.59%
Cr 267.716†	3960.8	0.17892	mg/L	0.001707	0.17892	mg/L	0.001707	0.95%
Cr 205.560†	2724.6	0.15032	mg/L	0.002033	0.15032	mg/L	0.002033	1.35%
Pb 220.353†	338.1	0.10684	mg/L	0.000780	0.10684	mg/L	0.000780	0.73%
Pb 217.000†	164.2	0.21835	mg/L	0.008561	0.21835	mg/L	0.008561	3.92%
Se 203.985†	-11.2	-0.02380	mg/L	0.020863	-0.02380	mg/L	0.020863	87.65%
Se 196.026†	-32.5	-0.06401	mg/L	0.003454	-0.06401	mg/L	0.003454	5.40%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 21
Sample ID: 1408D94-001A

Autosampler Location: 105
Date Collected: 9/2/2014 12:28:11 PM

All 248.0 kPa 0.55 L/min

Mean Data: 1408F68-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	528234.2	92.298	%	1.9670				2.13%
Ag 328.068†	-151.0	-0.00185	mg/L	0.000622	-0.00185	mg/L	0.000622	33.61%
As 188.979†	-3.2	-0.00715	mg/L	0.002956	-0.00715	mg/L	0.002956	41.32%
As 193.696†	-7.0	-0.01353	mg/L	0.002462	-0.01353	mg/L	0.002462	18.20%
Ba 233.527†	3838.2	0.09635	mg/L	0.001777	0.09635	mg/L	0.001777	1.84%
Cd 228.802†	-1.7	-0.00019	mg/L	0.000299	-0.00019	mg/L	0.000299	160.67%
Cd 226.502†	11.7	0.00043	mg/L	0.000309	0.00043	mg/L	0.000309	71.41%
Cr 267.716†	476.4	0.02152	mg/L	0.000555	0.02152	mg/L	0.000555	2.58%
Cr 205.560†	331.6	0.01829	mg/L	0.001067	0.01829	mg/L	0.001067	5.83%
Pb 220.353†	70.8	0.02236	mg/L	0.002705	0.02236	mg/L	0.002705	12.10%
Pb 217.000†	22.9	0.03046	mg/L	0.009083	0.03046	mg/L	0.009083	29.82%
Se 203.985†	-40.3	-0.08560	mg/L	0.020959	-0.08560	mg/L	0.020959	24.49%
Se 196.026†	2.3	0.00455	mg/L	0.011263	0.00455	mg/L	0.011263	247.66%

Sequence No.: 24
Sample ID: 1408E80-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 108
Date Collected: 9/2/2014 12:32:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408E80-001A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1408E80-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	621498.8	108.59	%	0.832				0.77%
Ag 328.068†	128.7	0.00158	mg/L	0.000130	0.00158	mg/L	0.000130	8.27%
As 188.979†	38.9	0.08761	mg/L	0.008029	0.08761	mg/L	0.008029	9.16%
As 193.696†	-58.8	-0.11425	mg/L	0.006347	-0.11425	mg/L	0.006347	5.56%
Ba 233.527†	147937.0	3.7135	mg/L	0.00932	3.7135	mg/L	0.00932	0.25%
Cd 228.802†	45.8	0.00512	mg/L	0.000965	0.00512	mg/L	0.000965	18.85%
Cd 226.502†	-196.6	-0.00727	mg/L	0.000308	-0.00727	mg/L	0.000308	4.24%
Cr 267.716†	2399.3	0.10838	mg/L	0.000385	0.10838	mg/L	0.000385	0.36%
Cr 205.560†	1319.5	0.07280	mg/L	0.001669	0.07280	mg/L	0.001669	2.29%
Pb 220.353†	2049.1	0.64754	mg/L	0.001852	0.64754	mg/L	0.001852	0.29%
Pb 217.000†	544.6	0.72435	mg/L	0.007603	0.72435	mg/L	0.007603	1.05%
Se 203.985†	-27.4	-0.05816	mg/L	0.033685	-0.05816	mg/L	0.033685	57.92%
Se 196.026†	-16.9	-0.03333	mg/L	0.009372	-0.03333	mg/L	0.009372	28.12%

User canceled analysis.

Analysis Begun

Start Time: 9/2/2014 12:33:17 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 9/2/2014 8:41:28 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090214 B15045.sif
Batch ID: 090214 B15045
Results Data Set: 090214 B15045
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

---

Sequence No.: 27
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 9/2/2014 12:33:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	562569.3	98.297	%	0.4587				0.47%
Ag 328.068†	40991.5	0.50214	mg/L	0.002246	0.50214	mg/L	0.002246	0.45%
QC value within limits for Ag 328.068 Recovery = 100.43%								
As 188.979†	220.0	0.49520	mg/L	0.010550	0.49520	mg/L	0.010550	2.13%
QC value within limits for As 188.979 Recovery = 99.04%								
As 193.696†	258.9	0.50338	mg/L	0.003689	0.50338	mg/L	0.003689	0.73%
Ba 233.527†	20461.2	0.51362	mg/L	0.002123	0.51362	mg/L	0.002123	0.41%
QC value within limits for Ba 233.527 Recovery = 102.72%								
Cd 228.802†	4591.5	0.51280	mg/L	0.002326	0.51280	mg/L	0.002326	0.45%
QC value within limits for Cd 228.802 Recovery = 102.56%								
Cd 226.502†	13843.0	0.51201	mg/L	0.002052	0.51201	mg/L	0.002052	0.40%
Cr 267.716†	11288.3	0.50991	mg/L	0.001517	0.50991	mg/L	0.001517	0.30%
Cr 205.560†	9186.3	0.50684	mg/L	0.003261	0.50684	mg/L	0.003261	0.64%
QC value within limits for Cr 205.560 Recovery = 101.37%								
Pb 220.353†	1606.3	0.50760	mg/L	0.003759	0.50760	mg/L	0.003759	0.74%
QC value within limits for Pb 220.353 Recovery = 101.52%								
Pb 217.000†	375.8	0.49989	mg/L	0.013271	0.49989	mg/L	0.013271	2.65%
Se 203.985†	235.4	0.49964	mg/L	0.004671	0.49964	mg/L	0.004671	0.93%
Se 196.026†	258.2	0.50925	mg/L	0.014660	0.50925	mg/L	0.014660	2.88%
QC value within limits for Se 196.026 Recovery = 101.85%								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/2/2014 12:34:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	571075.4	99.783	%	0.6035				0.60%
Ag 328.068†	28.8	0.00035	mg/L	0.000181	0.00035	mg/L	0.000181	51.33%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.0	-0.00235	mg/L	0.005701	-0.00235	mg/L	0.005701	242.52%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.9	0.00371	mg/L	0.010034	0.00371	mg/L	0.010034	270.17%
Ba 233.527†	136.4	0.00342	mg/L	0.000442	0.00342	mg/L	0.000442	12.90%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.6	0.00029	mg/L	0.000171	0.00029	mg/L	0.000171	58.53%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	3.9	0.00014	mg/L	0.000217	0.00014	mg/L	0.000217	150.97%
Cr 267.716†	6.5	0.00029	mg/L	0.000324	0.00029	mg/L	0.000324	109.96%
Cr 205.560†	5.8	0.00032	mg/L	0.000911	0.00032	mg/L	0.000911	285.26%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	2.6	0.00082	mg/L	0.000969	0.00082	mg/L	0.000969	118.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.9	-0.00123	mg/L	0.003298	-0.00123	mg/L	0.003298	268.09%
Se 203.985†	0.2	0.00034	mg/L	0.005717	0.00034	mg/L	0.005717	>999.9%
Se 196.026†	-2.7	-0.00531	mg/L	0.016637	-0.00531	mg/L	0.016637	313.23%
QC value within limits for Se 196.026 Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 29
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/2/2014 12:35:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	570913.4	99.755	%	0.3411				0.34%
Ag 328.068†	32.6	0.00040	mg/L	0.000054	0.00040	mg/L	0.000054	13.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.4	-0.00765	mg/L	0.005015	-0.00765	mg/L	0.005015	65.53%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.0	0.00001	mg/L	0.003044	0.00001	mg/L	0.003044	>999.9%
Ba 233.527†	121.4	0.00305	mg/L	0.000690	0.00305	mg/L	0.000690	22.64%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.3	0.00025	mg/L	0.000225	0.00025	mg/L	0.000225	88.92%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	9.9	0.00037	mg/L	0.000191	0.00037	mg/L	0.000191	52.26%
Cr 267.716†	6.1	0.00027	mg/L	0.000086	0.00027	mg/L	0.000086	31.33%
Cr 205.560†	-4.1	-0.00023	mg/L	0.000435	-0.00023	mg/L	0.000435	191.50%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	4.4	0.00139	mg/L	0.000536	0.00139	mg/L	0.000536	38.61%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.8	-0.00245	mg/L	0.002911	-0.00245	mg/L	0.002911	118.94%
Se 203.985†	2.3	0.00492	mg/L	0.009327	0.00492	mg/L	0.009327	189.72%
Se 196.026†	0.8	0.00161	mg/L	0.013501	0.00161	mg/L	0.013501	839.76%
QC value within limits for Se 196.026 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 30
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/2/2014 12:36:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	557448.6	97.402	%	0.4830				0.50%
Ag 328.068†	29.3	0.00036	mg/L	0.000081	0.00036	mg/L	0.000081	22.67%
As 188.979†	0.3	0.00064	mg/L	0.002833	0.00064	mg/L	0.002833	441.41%
As 193.696†	5.6	0.01090	mg/L	0.008678	0.01090	mg/L	0.008678	79.64%
Ba 233.527†	91.0	0.00229	mg/L	0.000143	0.00229	mg/L	0.000143	6.26%
Cd 228.802†	0.9	0.00011	mg/L	0.000469	0.00011	mg/L	0.000469	445.98%
Cd 226.502†	5.7	0.00021	mg/L	0.000164	0.00021	mg/L	0.000164	77.95%
Cr 267.716†	0.3	0.00002	mg/L	0.000160	0.00002	mg/L	0.000160	>999.9%
Cr 205.560†	12.4	0.00069	mg/L	0.000943	0.00069	mg/L	0.000943	137.53%
Pb 220.353†	-1.5	-0.00048	mg/L	0.000874	-0.00048	mg/L	0.000874	180.27%
Pb 217.000†	-0.0	-0.00001	mg/L	0.006517	-0.00001	mg/L	0.006517	>999.9%
Se 203.985†	-1.8	-0.00383	mg/L	0.011854	-0.00383	mg/L	0.011854	309.42%

SDB 8/19/14

Analytical Report
Lab Order: **1408830**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408830

Lab ID: 1408830-001
Client Sample ID: FFOR-CF-0082

Collection Date: 8/15/2014 1:51:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/20/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.5	1.0		wt%	1	R20650	8/18/2014 4:12:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-18-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 8-18-14 4:12pm	Start Temp: 110C		Reviewed by: JBS 8/19/14
End time: 8-19-14 11:44am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
1408638-001a			1.40	23.31	15.27		36.6956	#VALUE!
1408830-001a			1.33	25.09	22.84		9.4697	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408638-001a $\frac{23.31 - 15.27}{23.31 - 1.40} \times 100 = 36.69562$

8/19/14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

not reporting

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

Analytical Report
Lab Order: **1408830**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408830

Lab ID: 1408830-001
Client Sample ID: FFOR-CF-0082
Collection Date: 8/15/2014 1:51:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/20/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
1-Methylnaphthalene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
2-Methylnaphthalene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Acenaphthylene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Acenaphthene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Fluorene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Phenanthrene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Anthracene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Fluoranthene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Pyrene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Benz(a)anthracene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Chrysene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Benzo(b)fluoranthene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Benzo(k)fluoranthene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Benzo(a)pyrene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Dibenz(a,h)anthracene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Benzo(g,h,i)perylene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Indeno(1,2,3-cd)pyrene	ND	0.022		mg/Kg-dry	1	14807	8/19/2014 12:19:20 PM
Surr: N-hexadecane	51.7	27-106		%REC	1	14807	8/19/2014 12:19:20 PM
Surr: Benzo(e)pyrene	58.3	34.7-131		%REC	1	14807	8/19/2014 12:19:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Extraction Method 3540

PREP BATCH REPORT

Prep Start Date: **8/18/2014 8:43:25 A**
Prep End Date:

Time Started: 10:00
Time Ended: 4:00

Reviewed By: dam 8/19

Prep Batch ID: **14807** Prep Code: **8270_S_PRSI** Method No: **8270C**

Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14807		Solid			30	0	0	dam	1	0.033	8/18/2014
LCS-14807		Solid			30	0	0	8/19	1	0.033	8/18/2014
1408830-001A	FFOR-CF-0082	Soil			29.95 30	0	0		1	0.033	8/18/2014
1408830-001AMS		Soil			30.12 30	0	0		1	0.033	8/18/2014
1408830-001AMSD		Soil			30.06 30	0	0		1	0.033	8/18/2014

8-18-14 8-19-14 dam 4:45

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14032	100ppm PAH LCS	LCS	26300	Container-01 of 01	100 8-18	µL
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 8-19	µL
ST8310-14004	100ppm B(e)p, 450ppm N-Hex	SAMP	25595	Container-01 of 01	100 8-18	µL

arian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

mpleList: C:\VarianWS\033114.smp

eated: Mon Mar 31 09:23:44 2014
odified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

4.1.14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s

reate and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David T

QA: John Cochran

Additional Comments: _____

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: MC and MC.

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

JV 4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

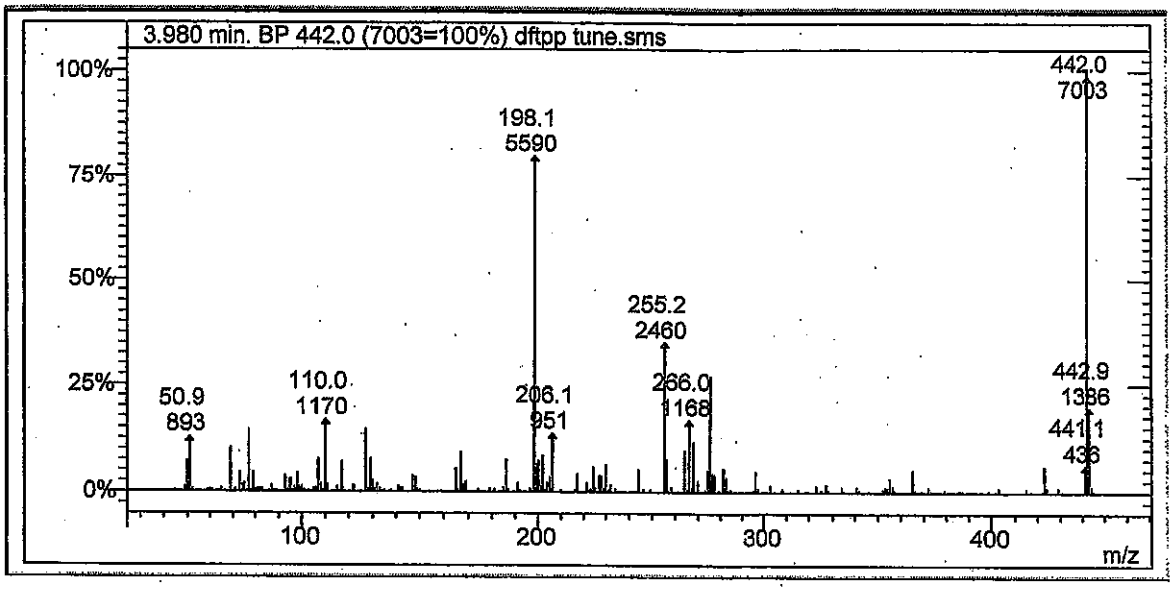
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	12.8		
68	<2% of m/z 69	0.0		
69	Present	10.2		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	14.5		
197	<2% of m/z 198	0.4	(0.5)	198
198	Base peak	79.8		
199	5-9% of m/z 198	6.5	(8.2)	198
275	10-60% of base peak	26.9		
365	>1% of base peak	5.0		
441	Present and <m/z 443	6.2	(31.5)	443
442	>50% of m/z 198	100.0	(125.3)	198
443	15-24% of m/z 442	19.8		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 ll crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 ll crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

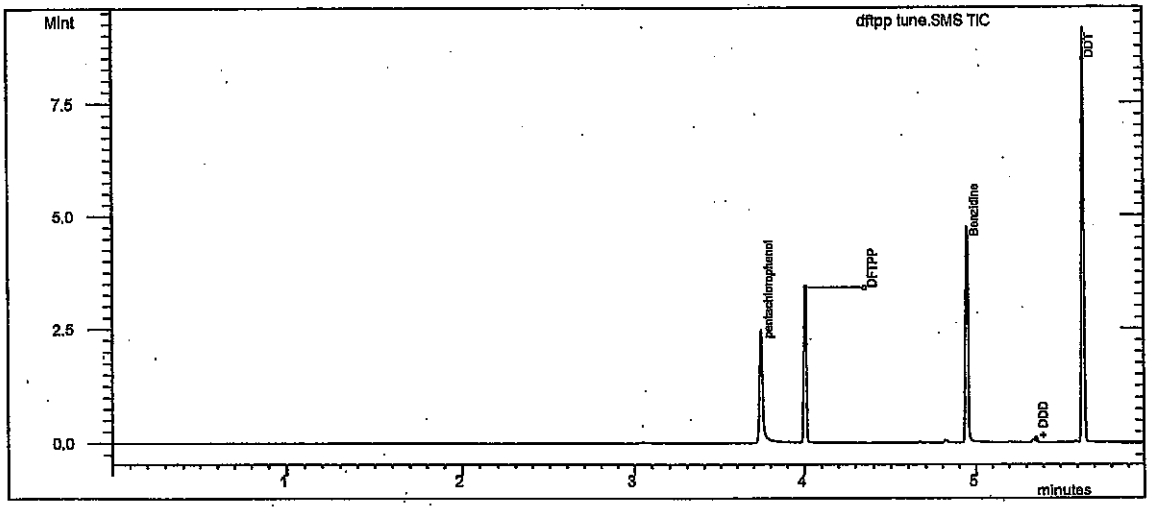
dwn 4/1/14

30

4<(<(%)

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT : = .944

✓ dam. 4/1/14

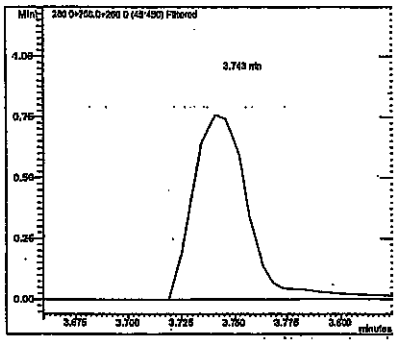
JV 4.1.14

Tailing and Gaussian Factor Report

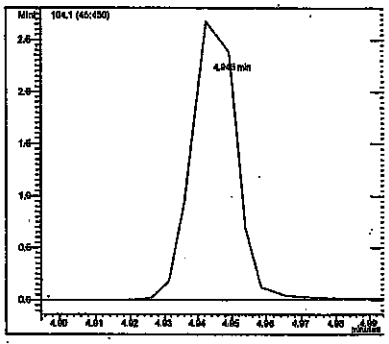
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPP	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

dam 4/1/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

JC 4/1/14

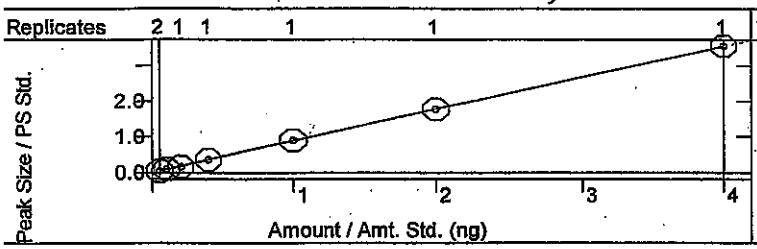
Calibration Curves Report

dam 4/1/14

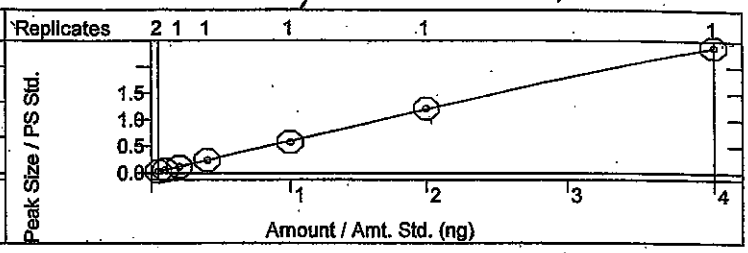
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-1-14

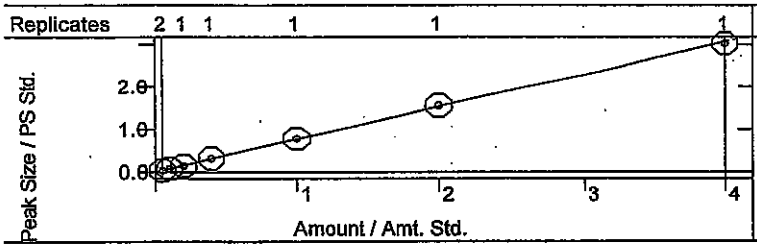
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



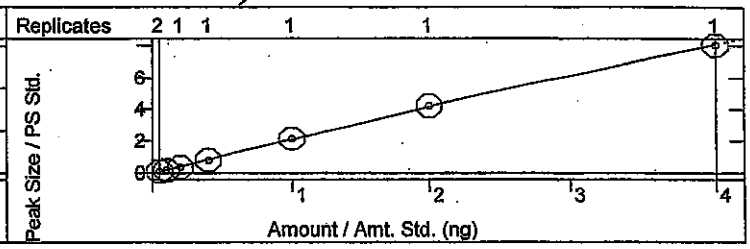
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



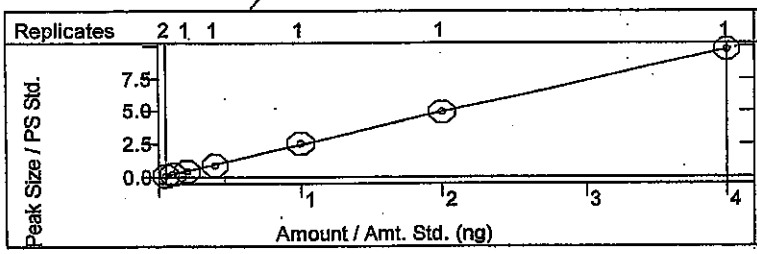
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



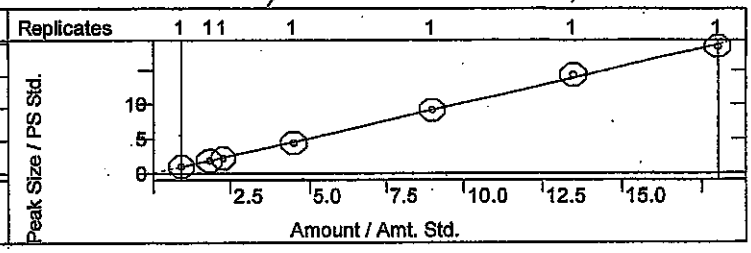
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



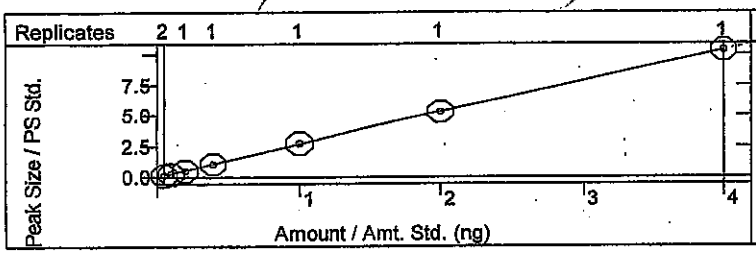
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



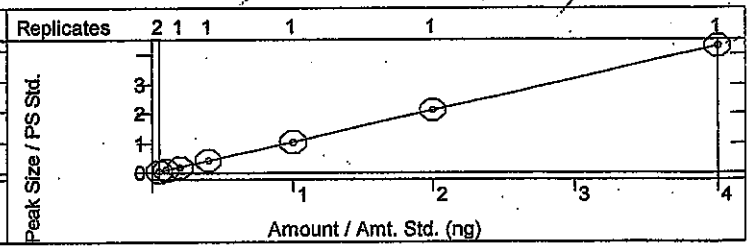
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4



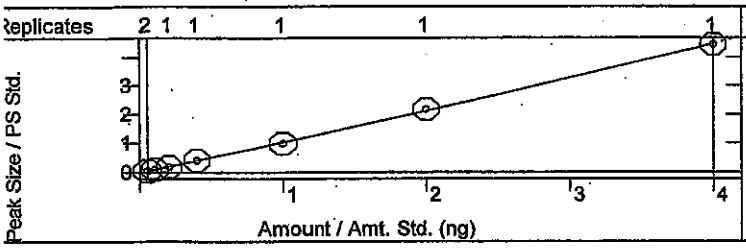
Calibration Curves Report

dam 4/1/14

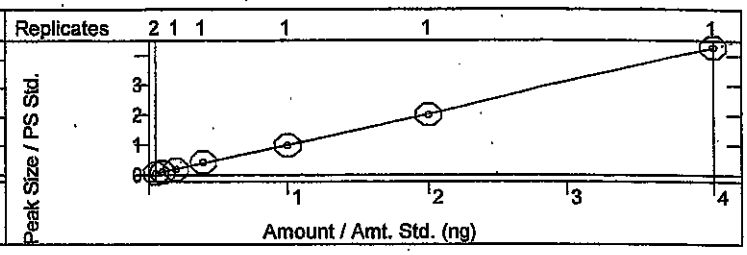
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

3/4/14

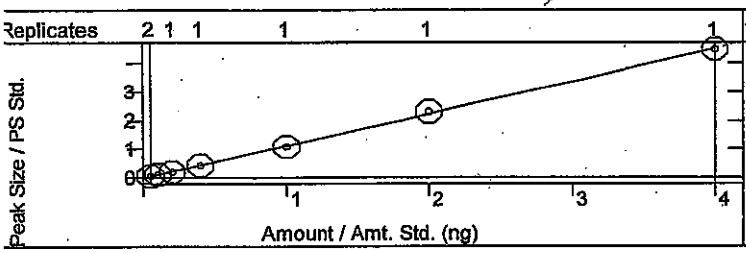
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



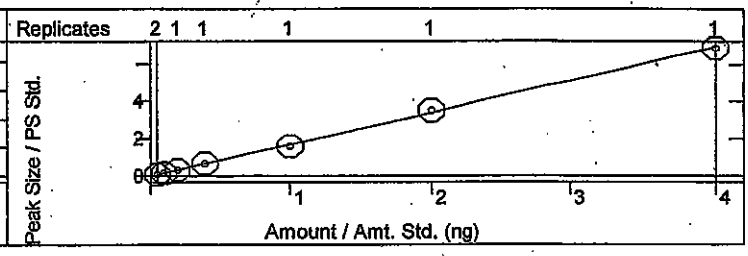
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



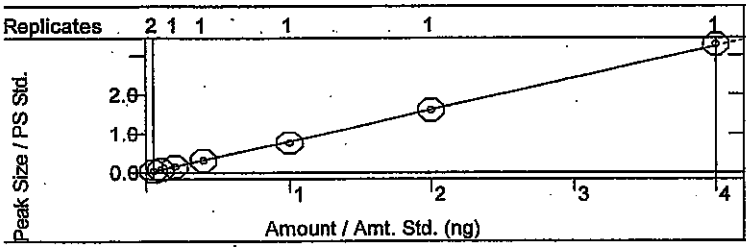
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



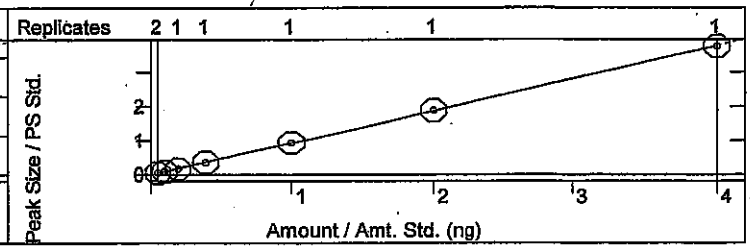
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



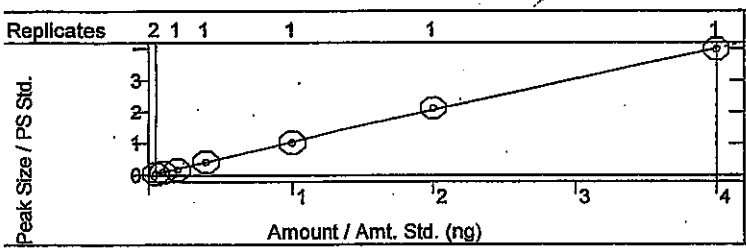
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



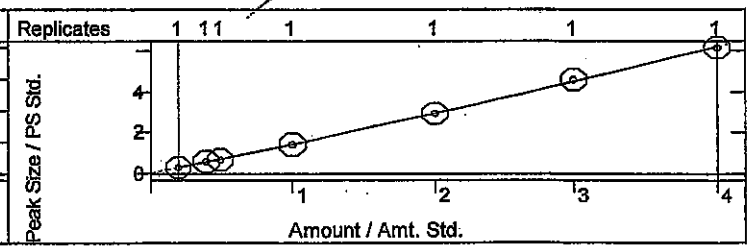
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401



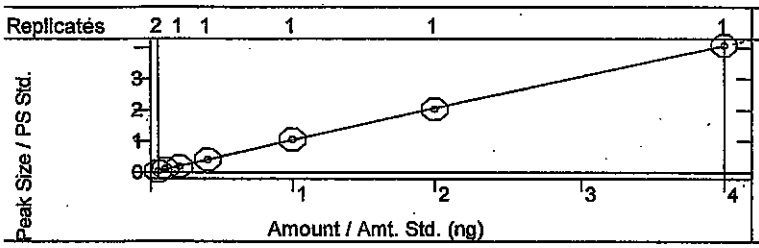
Calibration Curves Report

dam 4/1/14

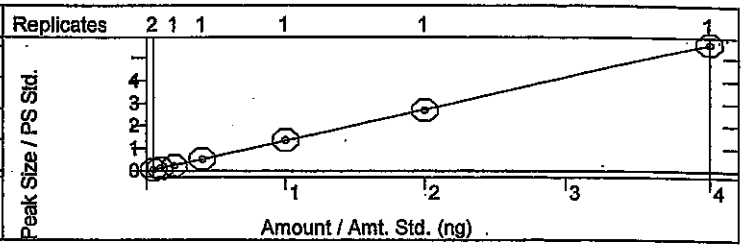
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4/1/14

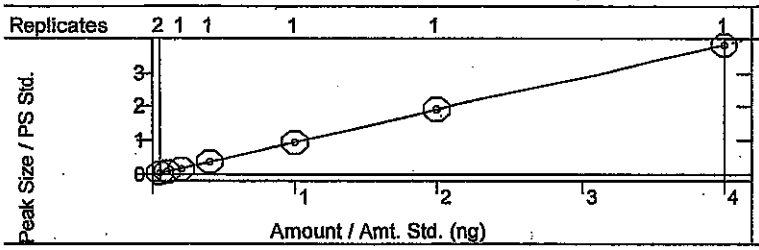
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



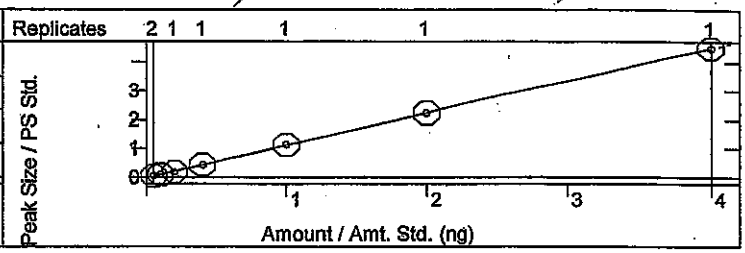
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JO 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
								Average %RSD		5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4-1-14

AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

DC 4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

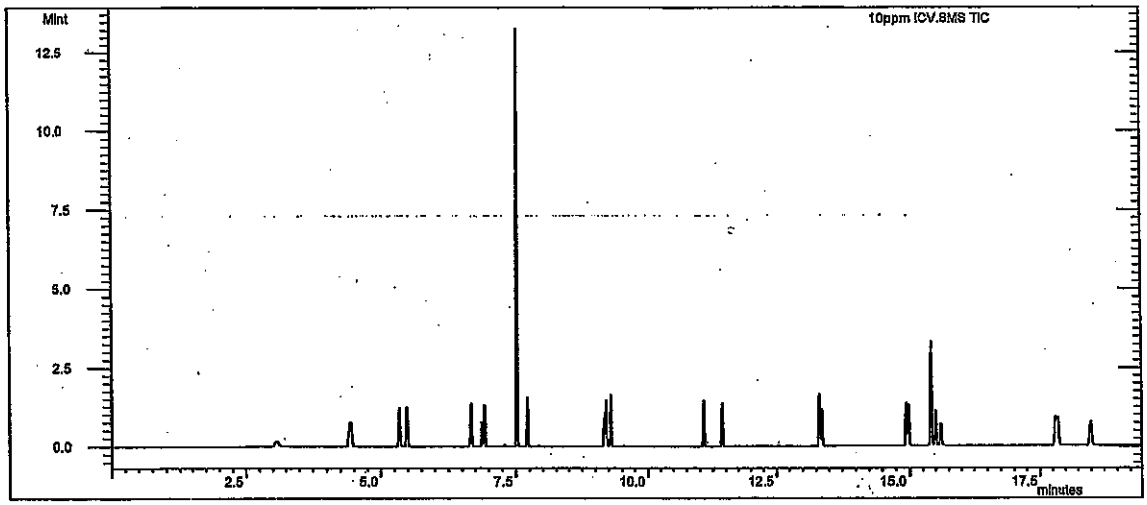
* indicates Internal Standard.

dam 4/1/14

JC 4.1.14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

****
Revision Log
****

3/31/2014 1:43 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

Varian Star Workstation - 8400 SampleList Tue Aug 19 14:03:19 2014

SampleList: C:\VarianWS\081914.smp

Created: Tue Aug 19 10:21:48 2014
Modified: Tue Aug 19 14:03:13 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm ll ccv	1	below	1	1.0
	Notes sv110-0562				
3	40ppm ccv	1	below	2	1.0
	Notes sv110-0593				
4	mb-14807	1	below	3	1.0
	Notes x1 LL				
5	lcs-14807	1	below	4	1.0
	Notes x1 LL				
6	1408830-001a	1	below	5	1.0
	Notes x1 LL				
7	1408830-001ams	1	below	6	1.0
	Notes x1 LL				
8	1408830-001amsd	1	below	7	1.0
	Notes x1 LL				
9					
10	mb-14822	1	below	8	1.0
	Notes x1 aq				
11	lcs-14822	1	below	9	1.0
	Notes x1 aq				
12	1408821-001b	1	below	10	1.0
	Notes x1 aq				
13	1408821-001bms	1	below	11	1.0
	Notes x1 aq				
14	1408821-001bmsd	1	below	12	1.0
	Notes x1 aq				
15	mb-14808	1	below	13	1.0
	Notes x1 soil				
16	lcs-14808	1	below	14	1.0
	Notes x1 soil				
17	lcsd-14808	1	below	15	1.0
	Notes x1 soil				
18	1408786-001a	1	below	16	1.0
	Notes x1 soil				
19	1408786-001a	1	below	17	1.0
	Notes x1 soil re-ext				
20	1408786-002a	1	below	18	1.0
	Notes x1 soil				
21	1408786-002a	1	below	19	1.0
	Notes x1 soil re-ext				
22	1408759-001a	1	below	20	1.0
	Notes x1 soil FV=10mL				
23	rb-8270	1	below	21	1.0
	Notes blank				
24					

Sam 8/20/14

TC 8.20.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\081914.rcl.

8270C

LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

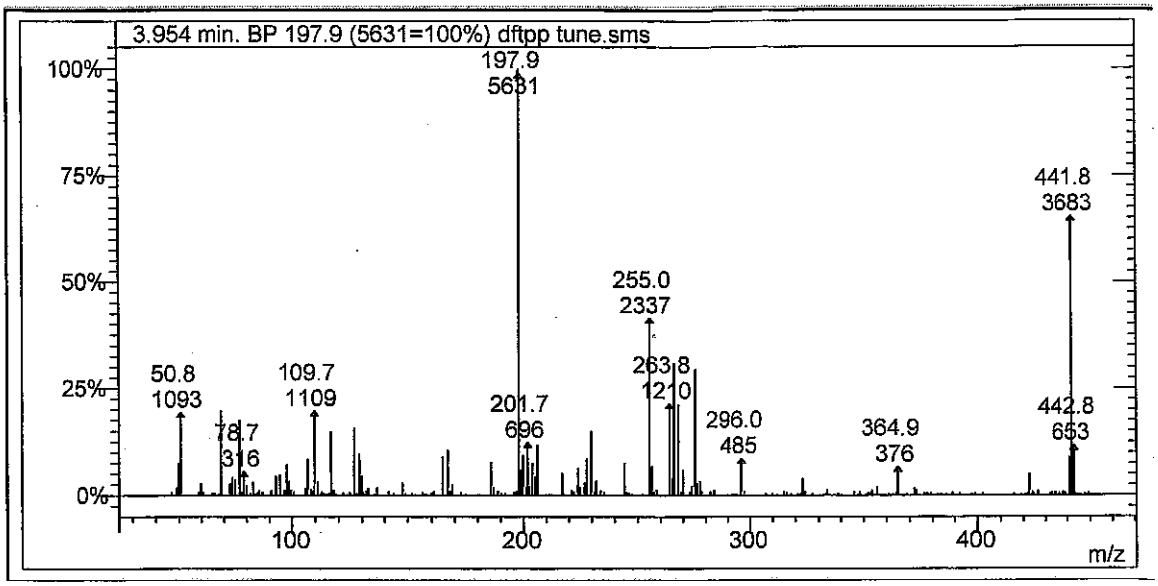
Analyst: Dawn

QA: John Caldwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: MC and MC.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/19/2014

Injection Time: 10:24

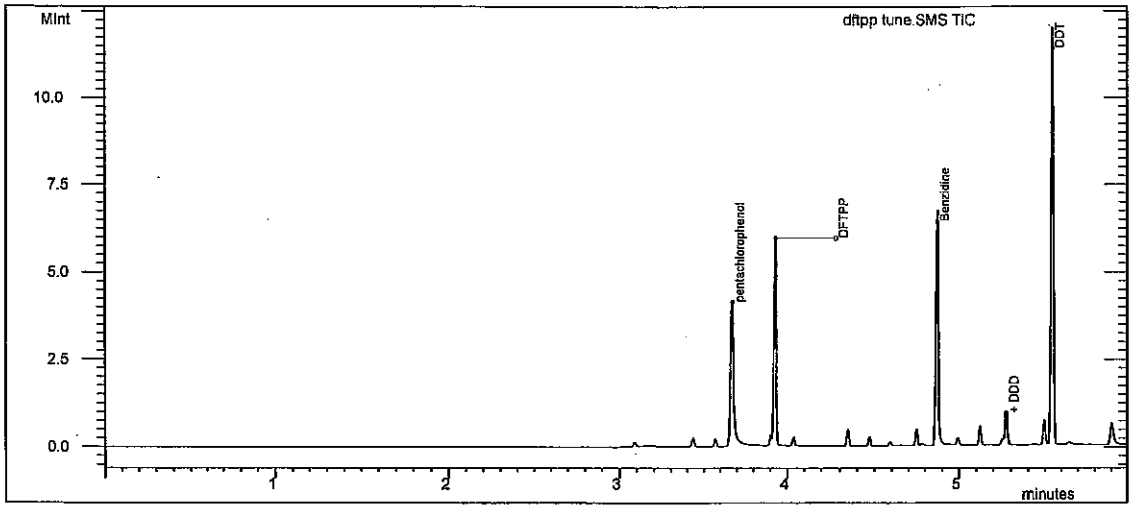
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.41	PASS
68	<2% of m/z 69	1.62	PASS
69	Present	19.69	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	15.57	PASS
197	<2% of m/z 198	1.01	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.98	PASS
275	10-60% of base peak	29.55	PASS
365	>1% of base peak	6.68	PASS
441	Present and <m/z 443	76.57	PASS
442	>50% of m/z 198	65.41	PASS
443	15-24% of m/z 442	17.73	PASS

dam 8/20/14

JC 8-20-14

Degradation Report

Acquisition Date:	8/19/2014 10:24:29 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.545	3.239E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.274	240913	5
DDE	5.039	58	6

% Degradation of DDT : = 6.924

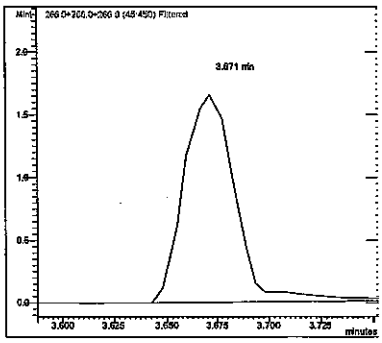
LCO dam 8/20/14

TV 8.20.14

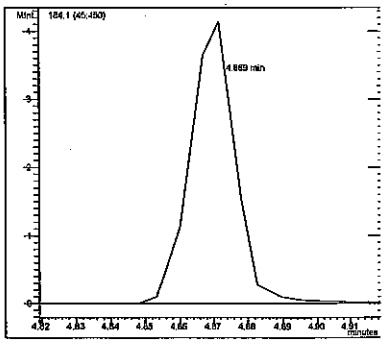
Tailing and Gaussian Factor Report

Acquisition Date:	8/19/2014 10:24:29 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.671 Area = 2.960E6



Benzidine
RT = 4.869 Area = 3.847E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.671	2.350	0.880
Benzidine	4.869	0.662	0.963

dam 8/20/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.671	2.960E6
3	Benzidine	4.869	3.847E6

JC 8.20.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm ll c	148061	2.98	535768	4.31	236741	6.77	473896	9.06	459471	13.20	619597	15.45

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

Sam 8/20/14

8.20.14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\081914\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 8/19/2014 Time Analyzed: 10:35

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148061	2.98	535768	4.31	236741	6.77	473896	9.06	459471	13.20	619597	15.45
UPPER LIMIT	296122	3.48	1.072E6	4.81	473482	7.27	947792	9.56	918942	13.70	1.239E6	15.95
LOWER LIMIT	74031	2.48	267884	3.81	118371	6.27	236948	8.56	229736	12.70	309799	14.95
EPA SAMPLE NO												
mb-14807	154421	2.98	527491	4.31	229068	6.77	428534	9.05	431132	13.20	543382	15.44
lcs-14807	143243	2.99	477011	4.31	204572	6.77	377819	9.05	400007	13.20	509341	15.44
1408830-00	139185	2.99	444825	4.32	204678	6.77	384314	9.06	385674	13.20	499121	15.44
1408830-00	144475	2.99	497205	4.32	218583	6.77	411906	9.06	415406	13.21	567097	15.44
1408830-00	133986	2.99	446519	4.32	196778	6.77	384301	9.06	385694	13.20	521410	15.44

dam 8/20/14

JC 8.20.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll ccv.sms **Acquisition Date:** 8/19/2014 10:35

Comment: sv110-0562

SampleID: 10ppm ll ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.34	ng	10.00	93 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.64	ng	10.00	96 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.79		10.00	98 %	80 - 120	PASS
6)	Acenaphthylene	9.88	ng	10.00	99 %	80 - 120	PASS
8)	Acenaphthene	9.87	ng	10.00	99 %	80 - 120	PASS
9)	n-hexadecane	69.62		67.50	103 %	80 - 120	PASS
10)	Fluorene	10.28	ng	10.00	103 %	80 - 120	PASS
12)	Phenanthrene	9.38	ng	10.00	94 %	80 - 120	PASS
13)	Anthracene	9.39	ng	10.00	94 %	80 - 120	PASS
14)	Fluoranthene	10.06	ng	10.00	101 %	80 - 120	PASS
15)	Pyrene	9.49	ng	10.00	95 %	80 - 120	PASS
16)	Benz[a]anthracene	9.25	ng	10.00	92 %	80 - 120	PASS
18)	Chrysene	9.32	ng	10.00	93 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	10.06	ng	10.00	101 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.72		15.00	105 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.88	ng	10.00	99 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.27	ng	10.00	93 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.19	ng	10.00	102 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.20	ng	10.00	92 %	80 - 120	PASS

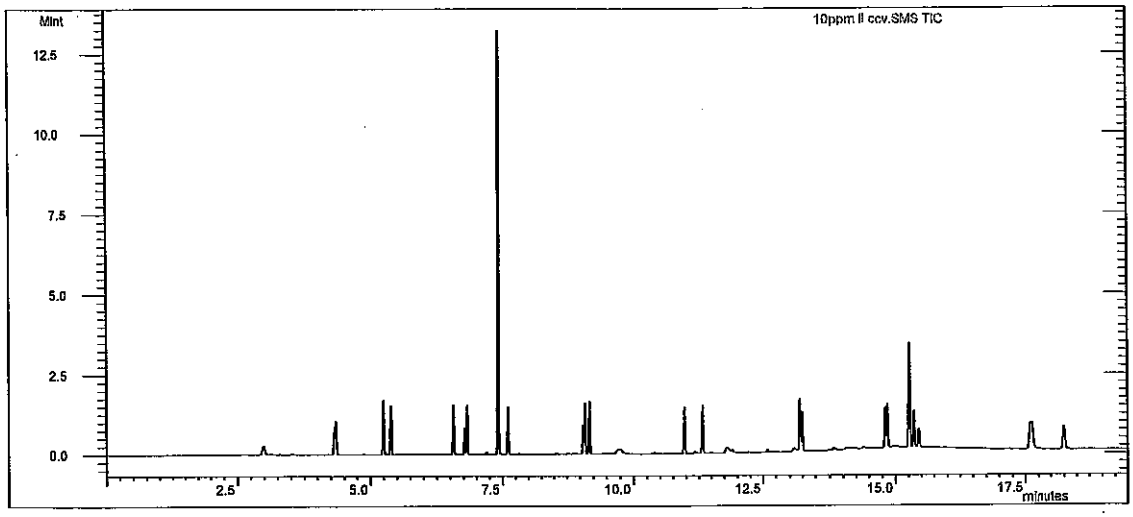
* indicates Internal Standard.

dkm 8/20/14

8.20.14

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	8/19/2014 10:35:30 AM
Calculation Date:	8/19/2014 10:55:00 AM				



dam 8/20/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.984	202	Identified	148061	5.000
Naphthalene-d8 (I.S)	4.311	339	Identified	535768	5.000
Acenaphthene-d10 (I.S)	6.770	594	Identified	236741	5.000
Phenanthrene-d10	9.056	833	Identified	473896	5.000
Chrysene-d12 I.S	13.203	1263	Identified	459471	5.000
Perylene-d12 I.S	15.445	1489	Identified	619597	5.000
Naphthalene	4.338	342	Identified	891519	9.345
2-Methylnaphthalene	5.240	435	Identified	616292	9.637
1-Methylnaphthalene	5.384	450	Identified	805647	9.791
Acenaphthylene	6.559	572	Identified	970487	9.883
Acenaphthene	6.820	599	Identified	1.147E6	9.874
n-hexadecane	7.411	661	Identified	3.401E6	69.621
Fluorene	7.605	681	Identified	1.296E6	10.275
Phenanthrene	9.094	837	Identified	941401	9.377
Anthracene	9.173	845	Identified	938670	9.394
Fluoranthene	10.958	1032	Identified	967390	10.063
Pyrene	11.316	1069	Identified	973488	9.493
Benz[a]anthracene	13.189	1261	Identified	1.442E6	9.250
Chrysene	13.244	1267	Identified	691093	9.322
Benzo(b)fluoranthene	14.801	1424	Identified	1.156E6	9.974
Benzo[k]fluoranthene	14.842	1428	Identified	1.290E6	10.064
Benzo(e)pyrene	15.262	1470	Identified	2.946E6	15.722
Benzo[a]pyrene	15.347	1479	Identified	1.263E6	9.878
Indeno[1,2,3-cd]pyrene	17.595	1704	Identified	1.561E6	9.274

8-20-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.629	1708	Identified	1.206E6	10.186
Benzo[g,h,i]perylene	18.249	1770	Identified	1.274E6	9.199

****
Revision Log
****

8/19/2014 10:55 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

WB 8/21/14

Analytical Report
Lab Order: **1408994**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-001
Client Sample ID: FFOR-CF-0046
Collection Date: 8/19/2014 8:07:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	5.8	1.0		wt%	1	R20708	8/20/2014 10:45:00 AM

Lab ID: 1408994-002
Client Sample ID: FFOR-CF-0047
Collection Date: 8/19/2014 3:31:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.8	1.0		wt%	1	R20708	8/20/2014 10:45:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-20-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 8-20-14 10:45am	Start Temp: 110C		Reviewed by: 8/21/14
End time: 8-21-14 8:14am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408994-001a	31.8	39.39				7.5550		#VALUE!
1408994-002a	31.9	40.03				8.1320		#VALUE!
MeOH Kits								#VALUE!
1408994-001a	25.7	39.77	1.00	2.00	2.00	14.0700	0.0000	0.7107
1408994-002a	25.7	39.50	1.00	2.00	2.00	13.8000	0.0000	0.7246
Pmoist								#VALUE!
1408994-001a			1.36	23.62	22.34		5.7502	#VALUE!
1408994-002a			1.38	22.03	20.22		8.7651	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408994-001a

$$\frac{23.62 - 22.34}{23.62 - 1.36} \times 100 = 5.7502\%$$

cg 8-21-14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1408994-001a

$$\frac{10g}{14.07g} = 0.7107$$

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **8/20/2014 9:07:12 A**
Prep End Date: **8/20/2014 10:30:00**

Prep Batch ID: **14860** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14860		Solid			5	0	0	5	1.000	8/20/2014	8/20/2014
LCS-14860		Solid			5	0	0	5	1.000	8/20/2014	8/20/2014
1408893-001A	FFOR-CF-0043	MeOH (Soil)			7.126	0	0	5	0.702	8/20/2014	8/20/2014
1408893-001AMS		MeOH (Soil)			7.15	0	0	5	0.699	8/20/2014	8/20/2014
1408893-001AMSD		MeOH (Soil)			7.1	0	0	5	0.704	8/20/2014	8/20/2014
1408893-002A	FFOR-CF-0044	MeOH (Soil)			6.976	0	0	5	0.717	8/20/2014	8/20/2014
1408893-003A	FFOR-CF-0045	MeOH (Soil)			6.636	0	0	5	0.753	8/20/2014	8/20/2014
1408994-001A	FFOR-CF-0046	MeOH (Soil)			7.555	0	0	5	0.662	8/20/2014	8/20/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8066	8260-5035 Low LCS	lcs/ms/msd	26422	Container-01 of 01	2	µL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408994**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-001
Collection Date: 8/19/2014 8:07:00 AM
Client Sample ID: FFOR-CF-0046
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14859	8/22/2014 9:17:27 AM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	14859	8/22/2014 9:17:27 AM
Surr: DNOP	92.5	57.9-140		%REC	1	14859	8/22/2014 9:17:27 AM

Lab ID: 1408994-002
Collection Date: 8/19/2014 3:31:00 PM
Client Sample ID: FFOR-CF-0047
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	63	11		mg/Kg-dry	1	14859	8/22/2014 9:47:00 AM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	14859	8/22/2014 9:47:00 AM
Surr: DNOP	103	57.9-140		%REC	1	14859	8/22/2014 9:47:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Is greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

rev. by: BN 8/22/14

Prep Start Date: **8/20/2014 11:30:31**
Prep End Date: **8/20/2014 12:53:39**
Prep Batch ID: **14859** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**
Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

BW 8.20.14

BN 8-20-14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14859		Soil	BN 8-20-14		10	0	0	10	1.000	8/20/2014	8/20/2014
LCS-14859		Soil			10	0	0	10	1.000	8/20/2014	8/20/2014
1408914-001A	13-006(700) B1@20'	Soil			10.08	0	0	10	0.992	8/20/2014	8/20/2014
1408914-001AMS		Soil			9.99	0	0	10	1.001	8/20/2014	8/20/2014
1408914-001AMSD		Soil			10.11	0	0	10	0.989	8/20/2014	8/20/2014
1408914-002A	13-006(700) B2@20'	Soil			10	0	0	10	1.000	8/20/2014	8/20/2014
1408914-003A	13-006(700) B3@20'	Soil			9.99	0	0	10	1.001	8/20/2014	8/20/2014
1408914-004A	13-006(700) B4@20'	Soil			10.06	0	0	10	0.994	8/20/2014	8/20/2014
1408914-005A	13-006(700) B5@20'	Soil			10.07	0	0	10	0.993	8/20/2014	8/20/2014
1408914-006A	13-006(700) B6@15'	Soil			10.15	0	0	10	0.985	8/20/2014	8/20/2014
1408914-007A	13-006(700) B7@20'	Soil			10.14	0	0	10	0.986	8/20/2014	8/20/2014
1408914-008A	13-006(700) B5@20'	Soil			10.09	0	0	10	0.991	8/20/2014	8/20/2014
1408986-001A	Outer NW Corner	Soil			10 9.98	0	0	10	1.000	8/20/2014	8/20/2014
1408987-001A	Outer NW Corner	Soil			10 10.00	0	0	10	1.000	8/20/2014	8/20/2014
1408988-001A	Outer NW Corner	Soil			10 10.06	0	0	10	1.000	8/20/2014	8/20/2014
1408993-001A	14081914	Soil			9.93	0	0	10	1.007	8/20/2014	8/20/2014
1408994-001A	FFOR-CF-0046	MeOH (Soil)			10 10.07	0	0	10	1.000	8/20/2014	8/20/2014
1408994-002A	FFOR-CF-0047	MeOH (Soil)			10 9.98	0	0	10	1.000	8/20/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand BN 8.20.14	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Sequence Print

BN 8.24.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
6	Unknown	0	1	1408994-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-001A <D>.dat	1
7	Unknown	0	1	1408994-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-002A <D>.dat	1
8	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
9	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
10	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
11	Unknown	0	1	1408986-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408986-001A <D>.dat	1
12	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
13	Unknown	0	1	1408987-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408987-001A <D>.dat	1
14	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
15	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
16	Unknown	0	1	MB-14904	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14904 <D>.dat	1
17	Unknown	0	1	LCS-14904	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14904 <D>.dat	1
18	Unknown	0	1	MB-14896	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14896 <D>.dat	1

8/25/14

Sequence Print

BN 9.24.14

19	Unknown	0	1	LCS-14896	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14896 <D>.dat	1
20	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
21	Unknown	0	1	MB-14887	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14887 <D>.dat	1
22	Unknown	0	1	LCS-14887	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14887 <D>.dat	1
23	Unknown	0	1	1408A29-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 A <D>.dat	1
24	Unknown	0	1	1408A29-001AMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 AMS <D>.dat	1
25	Unknown	0	1	1408A29-001AMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-001 AMSD <D>.dat	1
26	Unknown	0	1	1408A29-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-002 A <D>.dat	1
27	Unknown	0	1	1408A29-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-003 A <D>.dat	1
28	Unknown	0	1	1408A29-004A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-004 A <D>.dat	1
29	Unknown	0	1	1408A29-005A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-005 A <D>.dat	1
30	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
31	Unknown	0	1	1408A29-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-006 A <D>.dat	1
32	Unknown	0	1	1408A29-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-007 A <D>.dat	1
33	Unknown	0	1	1408A29-008A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-008 A <D>.dat	1
34	Unknown	0	1	1408A29-009A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-009 A <D>.dat	1
35	Unknown	0	1	1408A29-010A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A29-010 A <D>.dat	1
36	Unknown	0	1	1408A76-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-001 A <D>.dat	1
37	Unknown	0	1	1408A76-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-002 A <D>.dat	1

10/25/14

Sequence Print

BW 8-25-14

38	Unknown	0	1	1408A76-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A76-003 A <D>.dat	1
39	Unknown	0	1	1408A89-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A89-001 A <D>.dat	1
40	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
41	Unknown	0	1	1408B43-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001C <D>.dat	1
42	Unknown	0	1	1408B43-001CMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001C MS <D>.dat	1
43	Unknown	0	1	1408B43-001CMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-001C MSD <D>.dat	1
44	Unknown	0	1	1408B43-002C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-002C <D>.dat	1
45	Unknown	0	1	1408B43-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-003C <D>.dat	1
46	Unknown	0	1	1408B43-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-004C <D>.dat	1
47	Unknown	0	1	1408B43-005C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-005C <D>.dat	1
48	Unknown	0	1	1408B43-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B43-006C <D>.dat	1
49	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
50	Unknown	0	1	1408B57-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-001C <D>.dat	1
51	Unknown	0	1	1408B57-002C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-002C <D>.dat	1
52	Unknown	0	1	1408B57-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-003C <D>.dat	1
53	Unknown	0	1	1408B57-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-004C <D>.dat	1
54	Unknown	0	1	1408B57-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-006C <D>.dat	1
55	Unknown	0	1	1408B57-007C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B57-007C <D>.dat	1
56	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Instrument Failure NOT RUN BW 8-24-14

8/25/14

Sequence Print

8-24 RUN 8.24.14

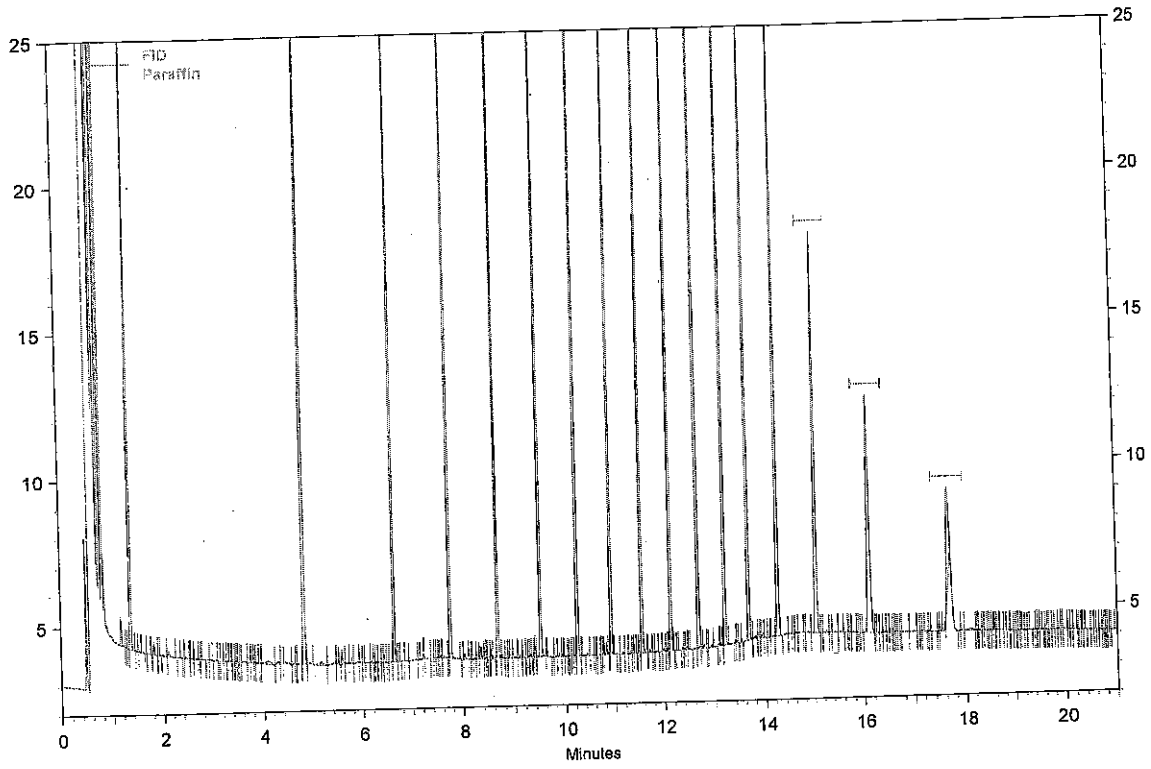
57	Unknown	0	1	1408B59-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-001B <D>.dat	1
58	Unknown	0	1	1408B59-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-002A <D>.dat	1
59	Unknown	0	1	1408B59-003B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-003B <D>.dat	1
60	Unknown	0	1	1408B59-004B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-004B <D>.dat	1
61	Unknown	0	1	1408B59-005B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-005B <D>.dat	1
62	Unknown	0	1	1408B59-006B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B59-006B <D>.dat	1
63	Unknown	0	1	1408B66-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B <D>.dat	1
64	Unknown	0	1	1408B66-001BMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B MS <D>.dat	1
65	Unknown	0	1	1408B66-001BMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408B66-001B MSD <D>.dat	1
66	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Not RUN (BN 8.25.14 Instrument Failure

8/25/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\Paraffin 08-22-14 7-10-18 AM.dat
Aquired: 8/22/2014 7:18:26 AM



FID Results

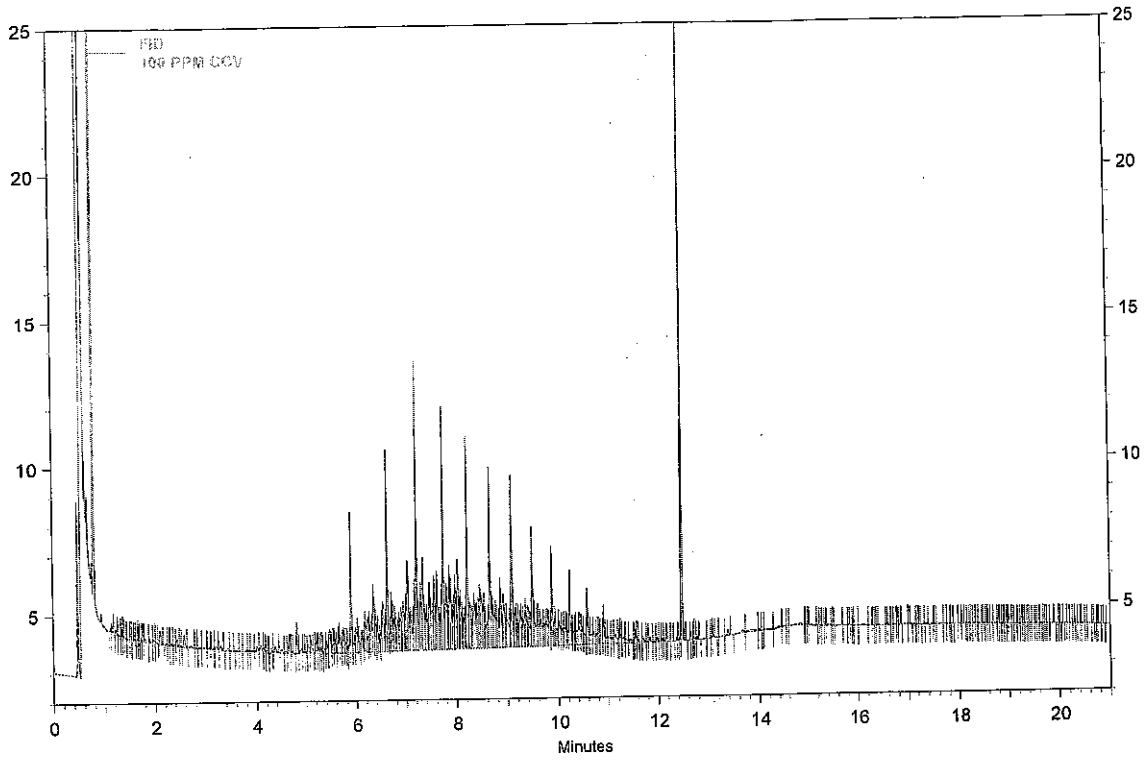
Name	Retention Time	Area	ug/ml
C08	1.34	56702	0.000
C10	4.81	76536	0.000
C12	6.62	77815	0.000
C14	7.74	78622	0.000
C16	8.66	78984	0.000
C18	9.49	79057	0.000
C20	10.23	80252	0.000
C22	10.91	79156	0.000
C24	11.54	78765	0.000
C26	12.12	81322	0.000
C28	12.67	82118	0.000
C30	13.18	77929	0.000
C32	13.65	63002	0.000
C34	14.24	44434	0.000
C36	15.02	33896	0.000
C38	16.11	28700	0.000
C40	17.66	10034	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\100 PPM CCV 08-22-14 7-39-44 AM.dat
Aquired: 8/22/2014 7:48:02 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	26786	10.375
DRO		330215	121.472
MRO		4525	0.000

Analyst BN

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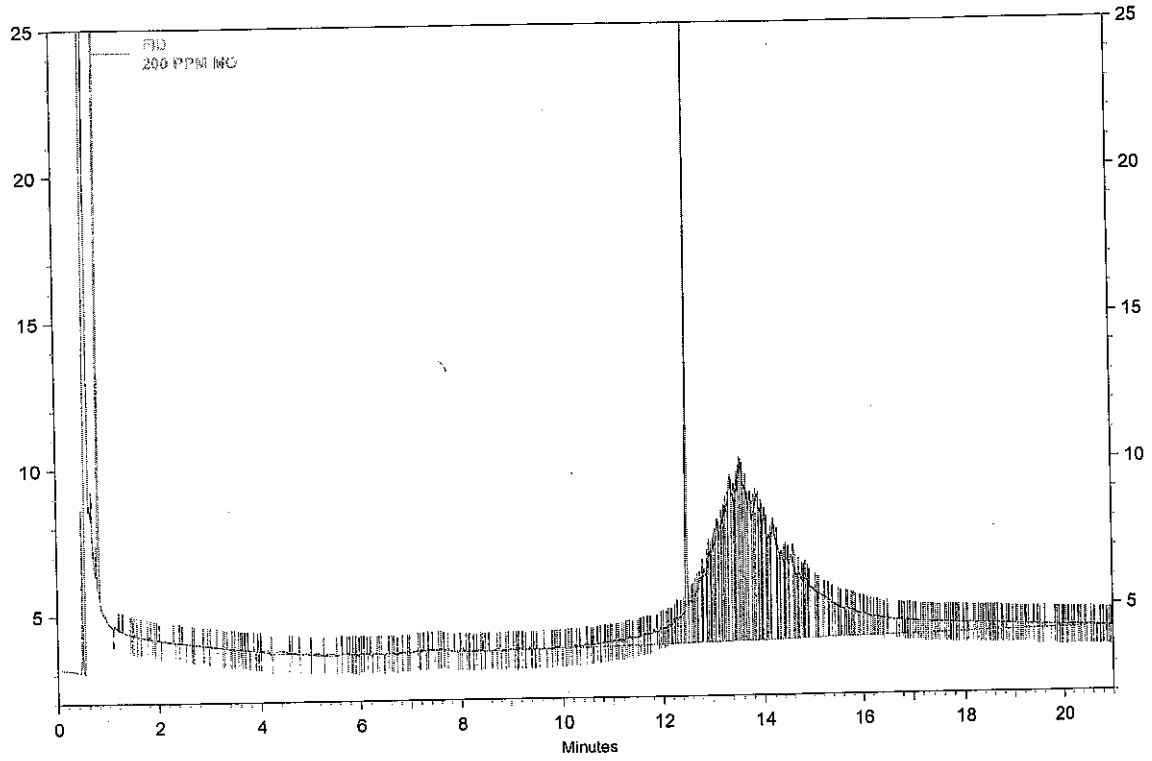
RR new CCV

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\200 PPM MO 08-22-14 8-09-16 AM.dat
Aquired: 8/22/2014 8:17:39 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	36350	13.977
DRO		32005	12.450
MRO		500876	207.552

Analyst BN

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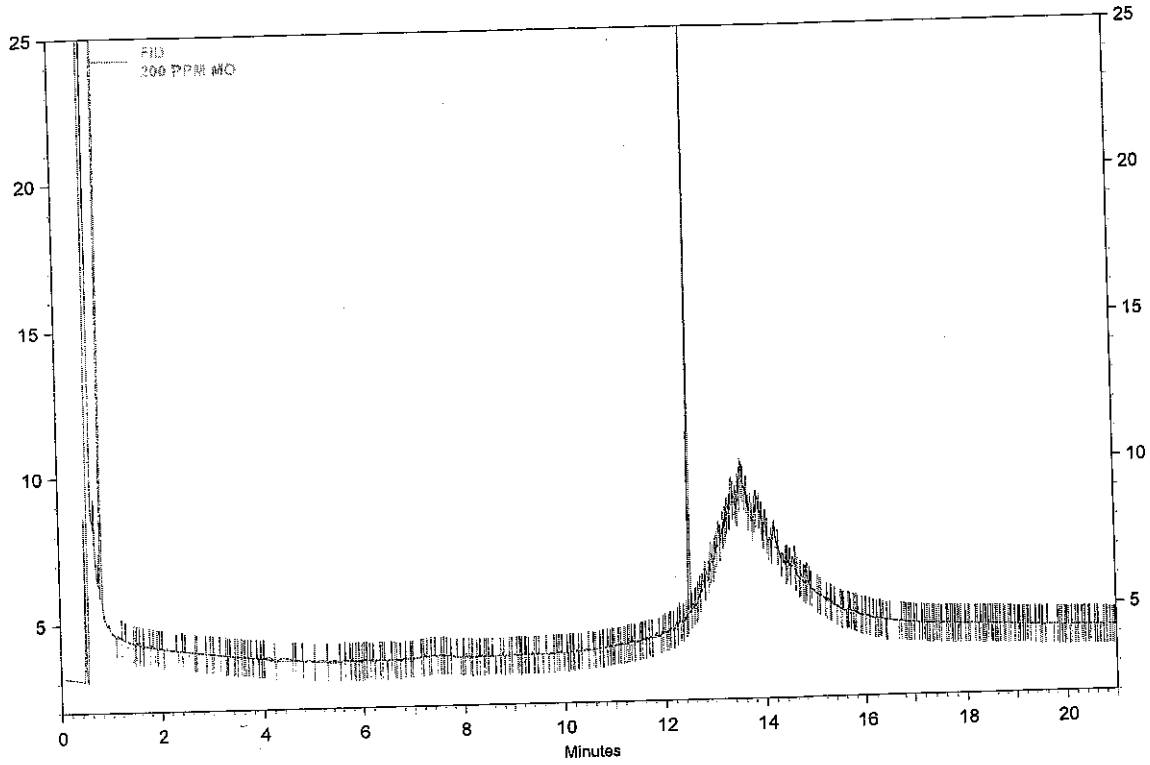
13.977
-12.147
1.83
+207.552
209.382 x100
200
104.691 %

Instument: **FID2 (Offline)**
Sample ID: **200 PPM MO**

Vial #: **4**
Data Descritpion: **SV109-1531**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\082214\200 PPM MO 08-22-14 8-09-16 AM.dat
Aquired: 8/22/2014 8:17:39 AM



FID Results

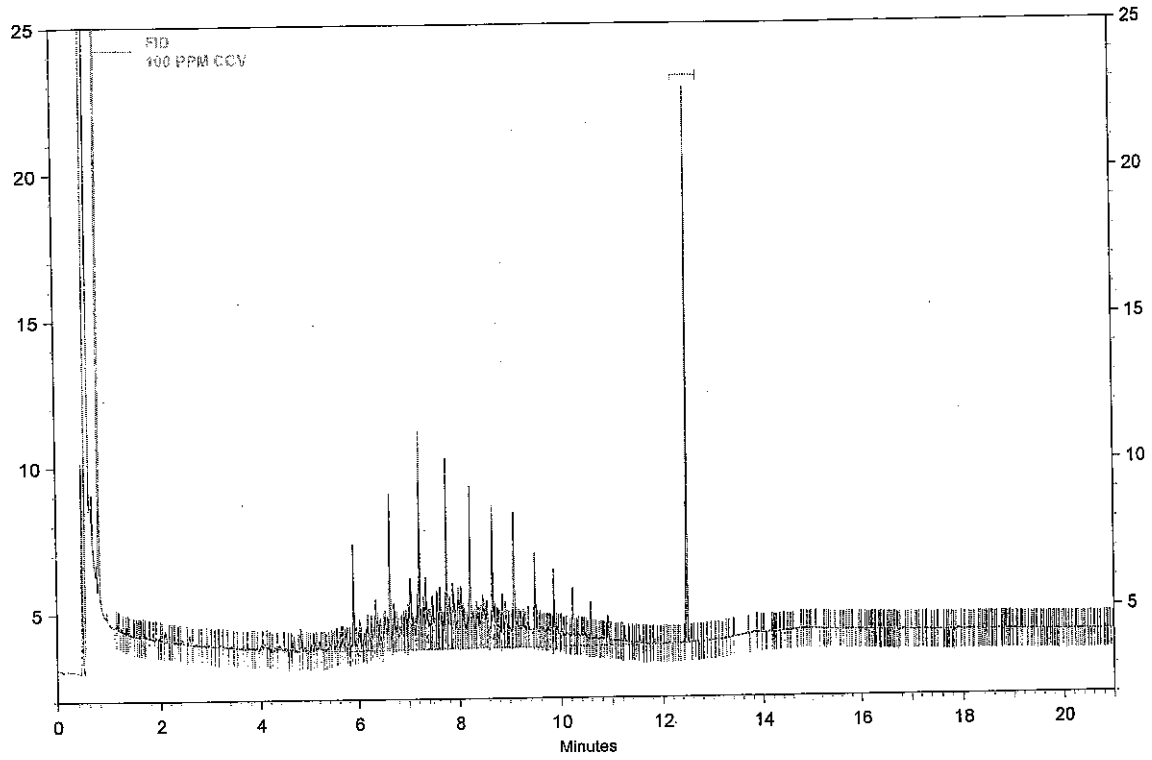
Name	Retention Time	Area	ug/ml
DNOP	12.48	31507	12.147
DRO		7459	3.524
MRO		23643	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-22-14 8-46-19 AM.dat
Aquired: 8/22/2014 8:47:33 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21054	8.237
DRO		250861	92.359
MRO		2472	0.000

Analyst BN

Reviewed By

Sequence Print

BN 8.27.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408893-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A <D>.dat	1
6	Unknown	0	1	1408893-001AMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A MS <D>.dat	1
7	Unknown	0	1	1408893-001AMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A MSD <D>.dat	1
8	Unknown	0	1	1408893-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-002A <D>.dat	1
9	Unknown	0	1	1408893-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-003A <D>.dat	1
10	Unknown	0	1	1408910-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408910-001A <D>.dat	1
11	Unknown	0	1	1408910-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408910-002A <D>.dat	1
12	Unknown	0	1	1408917-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408917-001A <D>.dat	1
13	Unknown	0	2	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
14	Unknown	0	1	1408917-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408917-001A <D>.dat	1
15	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
16	Unknown	0	1	1408740-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408740-002A <D>.dat	1
17	Unknown	0	1	MB-14859	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14859 <D>.dat	1
18	Unknown	0	1	LCS-14859	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14859 <D>.dat	1

-002A 8/22/14

-002A 8/22/14

-002A 8/22/14

-002A 8/22/14

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19	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
20	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
21	Unknown	0	1	MB-14858	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14858 <D>.dat	1
22	Unknown	0	1	LCS-14858	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14858 <D>.dat	1
23	Unknown	0	1	1408901-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B <D>.dat	1
24	Unknown	0	1	1408901-001BMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B MS <D>.dat	1
25	Unknown	0	1	1408901-001BMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B MSD <D>.dat	1
26	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
27	Unknown	0	1	MB-14873	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14873 <D>.dat	1
28	Unknown	0	1	LCS-14873	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14873 <D>.dat	1
29	Unknown	0	1	1408A13-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C <D>.dat	1
30	Unknown	0	1	1408A13-001CMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C MS <D>.dat	1
31	Unknown	0	1	1408A13-001CMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C MSD <D>.dat	1
32	Unknown	0	1	1408A13-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-003C <D>.dat	1
33	Unknown	0	1	1408A13-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-004C <D>.dat	1
34	Unknown	0	1	1408A13-005C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-005C <D>.dat	1
35	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
36	Unknown	0	1	1408A13-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-006C <D>.dat	1
37	Unknown	0	1	1408A13-007C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-007C <D>.dat	1

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38	Unknown	0	1	1408A13-008C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-008C <D>.dat	1
39	Unknown	0	1	1408A13-009C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-009C <D>.dat	1
40	Unknown	0	1	1408A13-010C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-010C <D>.dat	1
41	Unknown	0	1	1408A13-011C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-011C <D>.dat	1
42	Unknown	0	1	1408A13-013C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-013C <D>.dat	1
43	Unknown	0	1	1408A13-014C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-014C <D>.dat	1
44	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
45	Unknown	0	1	MB-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14811 <D>.dat	1
46	Unknown	0	1	LCS-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14811 <D>.dat	1
47	Unknown	0	1	LCSD-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCSD-14811 <D>.dat	1
48	Unknown	0	1	1408715-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408715-001A <D>.dat	1
49	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
50	Unknown	0	1	1408715-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408715-002A <D>.dat	1
51	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
52	Unknown	0	1	1408759-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408759-002A <D>.dat	1
53	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
54	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
55	Unknown	0	1	1408759-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408759-002A <D>.dat	1
56	Unknown	0	1	1408914-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-001A <D>.dat	1

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BN 8.21.14

57	Unknown	0	1	1408914-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-002A <D>.dat	1
58	Unknown	0	1	1408914-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-003A <D>.dat	1
59	Unknown	0	1	1408914-004A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-004A <D>.dat	1
60	Unknown	0	1	1408914-005A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-005A <D>.dat	1
61	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
62	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
63	Unknown	0	1	1408914-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-007A <D>.dat	1
64	Unknown	0	1	1408914-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-007A <D>.dat	1
65	Unknown	0	1	1408914-008A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-008A <D>.dat	1
66	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
67	Unknown	0	1	1408986-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408986-001A <D>.dat	1
68	Unknown	0	1	1408987-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408987-001A <D>.dat	1
69	Unknown	0	1	1408988-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408988-001A <D>.dat	1
70	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
71	Unknown	0	1	1408994-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-001A <D>.dat	1
72	Unknown	0	1	1408994-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-002A <D>.dat	1
73	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
74	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
75	Unknown	0	2	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1

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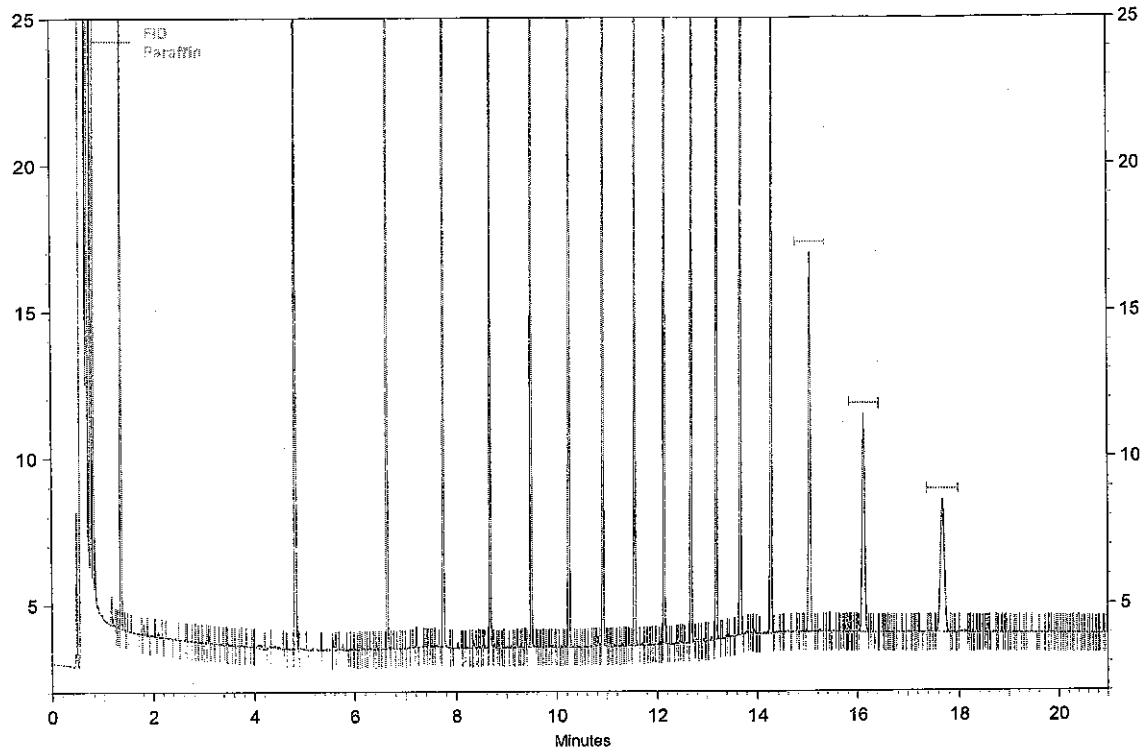
76	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

V 8/22/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-20-14 7-44-31 AM.dat
Aquired: 8/20/2014 7:52:54 AM



FID Results

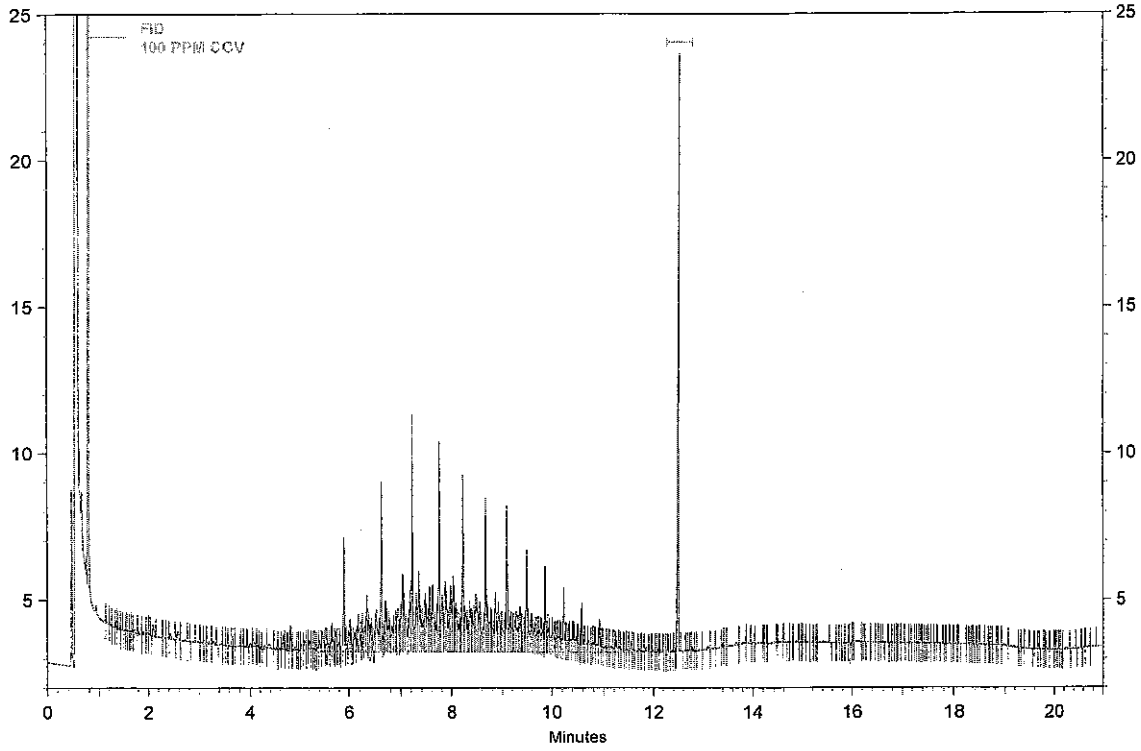
Name	Retention Time	Area	ug/ml
C08	1.34	54134	0.000
C10	4.81	70582	0.000
C12	6.63	71810	0.000
C14	7.74	73262	0.000
C16	8.67	74181	0.000
C18	9.49	74907	0.000
C20	10.23	76481	0.000
C22	10.91	75693	0.000
C24	11.54	75519	0.000
C26	12.13	77987	0.000
C28	12.67	78707	0.000
C30	13.18	74220	0.000
C32	13.66	59604	0.000
C34	14.24	42186	0.000
C36	15.03	31664	0.000
C38	16.11	26670	0.000
C40	17.67	23621	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-20-14 8-14-17 AM.dat
Aquired: 8/20/2014 8:22:40 AM



FID Results

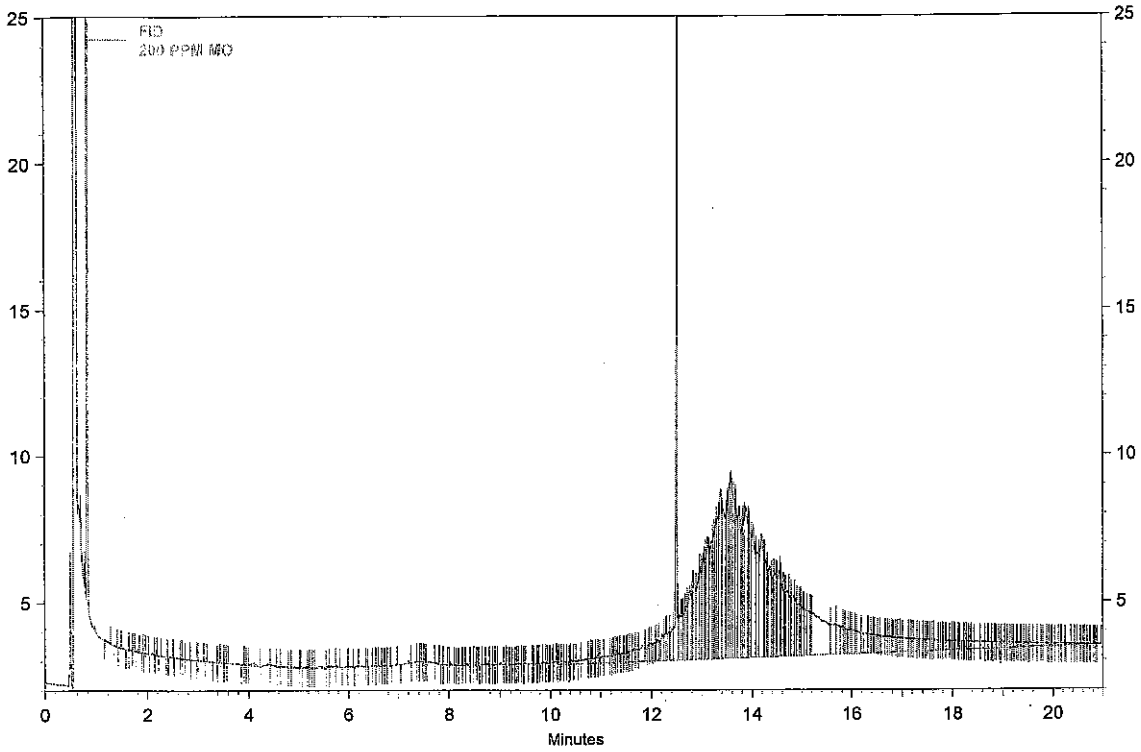
Name	Retention Time	Area	ug/ml
DNOP	12.48	23041	8.976
DRO		282861	104.090
MRO		3875	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-20-14 8-44-03 AM.dat
Aquired: 8/20/2014 8:53:07 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	38278	14.708
DRO		32155	12.505
MRO		487349	201.079

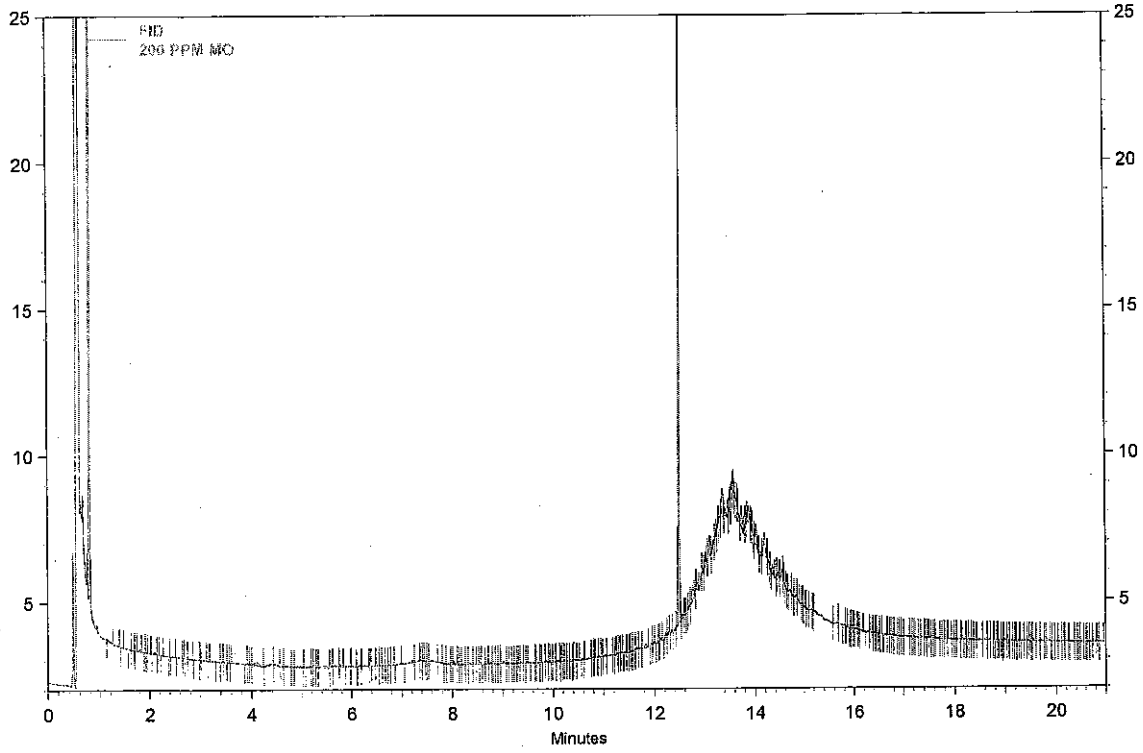
Analyst BN

Reviewed By

14.708
-12.135
2.573
+201.079
206.225 X100
200
=103.112 ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-20-14 8-44-03 AM.dat
Aquired: 8/20/2014 8:53:07 AM



FID Results

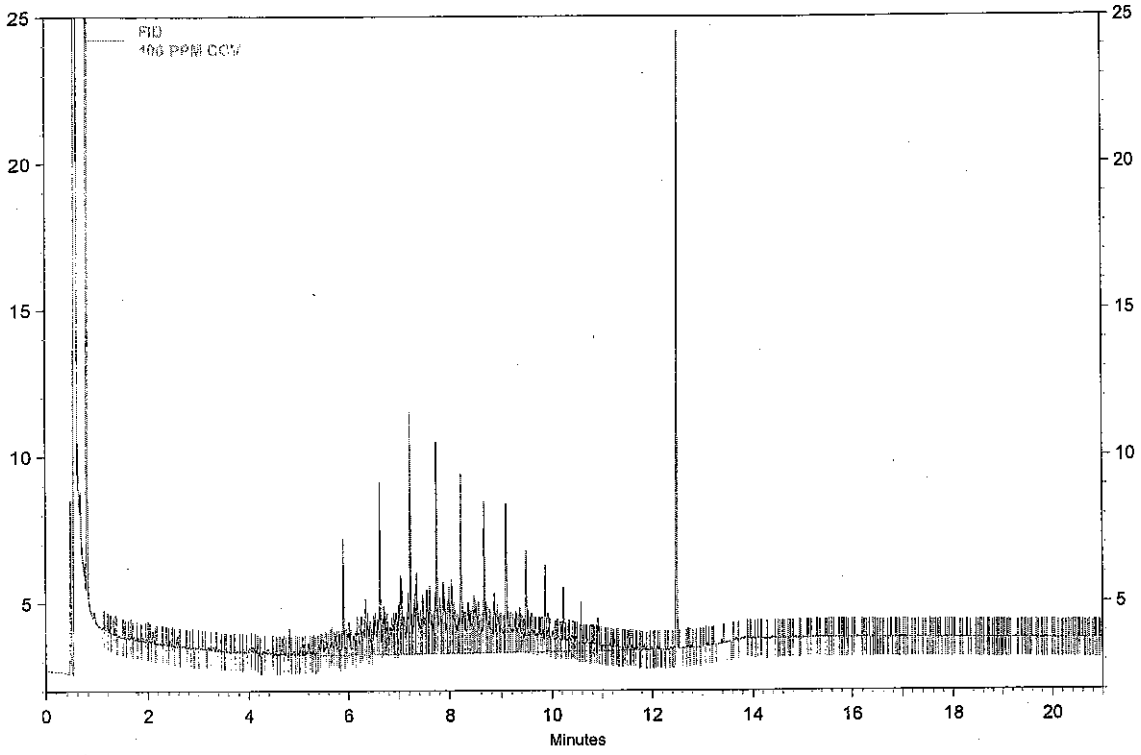
Name	Retention Time	Area	ug/ml
DNOP	12.48	31474	12.135
DRO		6011	2.997
MRO		21557	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-20-14 5-46-59 PM.dat
Aquired: 8/20/2014 5:55:40 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	23215	9.041
DRO		280804	103.336
MRO		3294	0.000

Analyst BN

Reviewed By

Calibration Summary

Instrument: FID#2 Date: 08/13/14

Method: 8015 D

Calibration Name: DRO FID#2 081314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	X	☐	☐	X	
MRO	X	☐	☐	X	
DNOP (Surr)	N/A	N/A	☐	X	

Additional Notes:

Analyst: Janice Easley

QA: [illegible]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [illegible] and [illegible].

Calibration Report

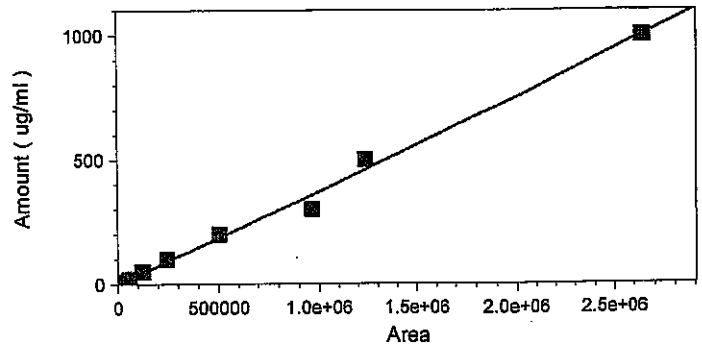
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000346663 RF StDev: 8.44404e-005 RF %RSD: 24.3580
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.91807e-012x^2 + 0.000363445x + 0.812271
Goodness of fit (r^2): 0.993892

8/14/14

8/14/14

Group: DRO ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	27005	32411	56634	121544	244238
RF	0.000148120	0.00030853722	0.000353144754	0.000411373658	0.0004094366
	718385484	5016198	034679	921872	96992278
Last Area					
Residual	-6.63141	-2.59809	-1.41457	4.92579	10.0677
Rep StDev					
Rep %RSD					
Rep 1 Area	27005	32411	56634	121544	244238
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	505776	964738	1236689	2640934
RF	0.000395431	0.00031096525	0.000404305366	0.000378653915
	969883901	6888399	992025	622276
Last Area				
Residual	13.8523	-56.9492	40.6687	-1.92124
Rep StDev				
Rep %RSD				
Rep 1 Area	505776	964738	1236689	2640934
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

Calibration Report

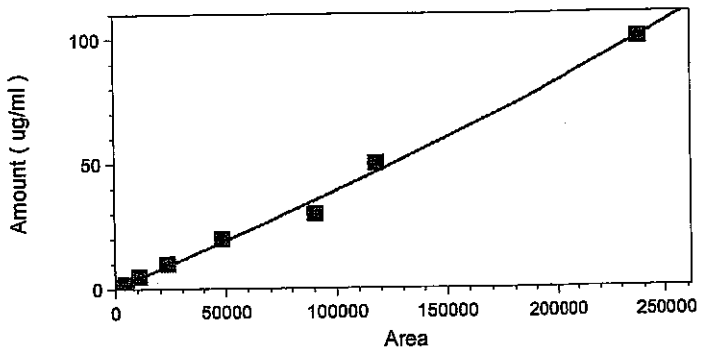
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000417492 RF StDev: 3.65729e-005 RF %RSD: 8.76013
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.44160e-010x^2 + 0.000361222x + 0.523704
Goodness of fit (r^2): 0.994928

JZ 8/14/14

JAM 8/14/14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	919	2333	4919	10680	23365
RF	0.000435255	0.00042863266	0.000406586704	0.000468164794	0.0004279905
	71273123	180883	614759	007491	84207147
Last Area					
Residual	-0.455874	-0.367764	-0.306464	0.590594	0.903049
Rep StDev					
Rep %RSD					
Rep 1 Area	919	2333	4919	10680	23365
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	48359	90478	117643	237733
RF	0.000413573	0.00033157231	0.000425014663	0.000420639961
Last Area	481668355	5922103	005874	637636
Residual	1.43697	-5.20512	3.6019	-0.197294
Rep StDev				
Rep %RSD				
Rep 1 Area	48359	90478	117643	237733
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

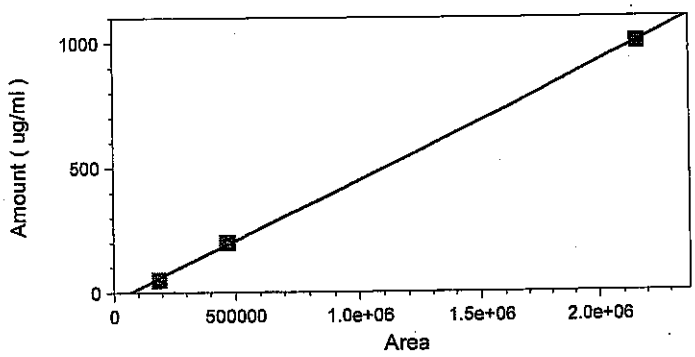
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000386051 RF StDev: 0.000105388 RF %RSD: 27.2989
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000478515x - 32.1253
Goodness of fit (r^2): 0.999719

✓ JE 8/14/14 ✓ dam 8/14/14

Group: MRO -- ESTD -- FID

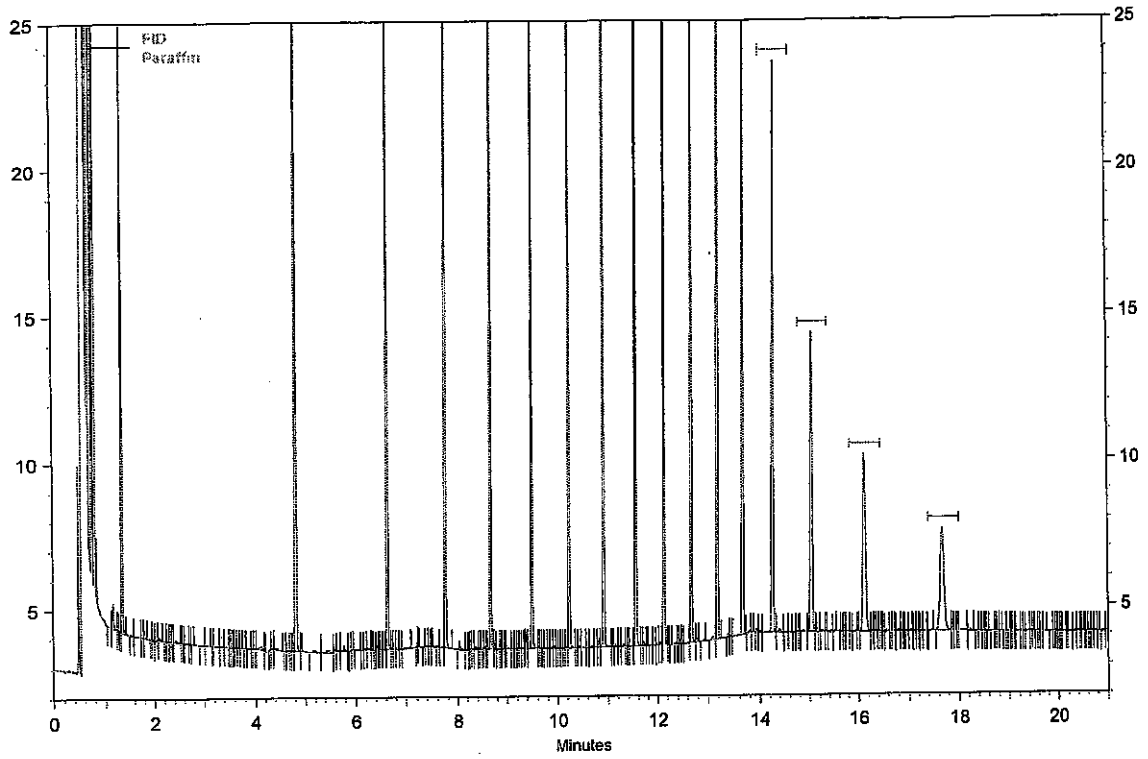


	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	188011	466019	2159622
RF	0.000265941	0.00042916705	0.000463043995
	886378988	1128817	662204
Last Area Residual	-7.8409	9.128	-1.2871
Rep StDev			
Rep %RSD			
Rep 1 Area	188011	466019	2159622
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-13-14 4-17-38 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/14/2014 8:08:47 AM	8/14/2014 8:09:01 AM	8/14/2014 8:09:19 AM

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

Instument: **FID 2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-13-14 10-05-56 AM.dat
Aquired: 8/13/2014 10:13:00 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.34	44427	0.000
C10	4.81	53253	0.000
C12	6.63	54425	0.000
C14	7.74	56231	0.000
C16	8.67	57801	0.000
C18	9.49	58746	0.000
C20	10.23	60486	0.000
C22	10.91	60785	0.000
C24	11.54	60762	0.000
C26	12.12	63147	0.000
C28	12.67	64114	0.000
C30	13.18	60489	0.000
C32	13.66	48564	0.000
C34	14.24	34124	0.000
C36	15.03	25415	0.000
C38	16.12	21657	0.000
C40	17.67	18490	0.000

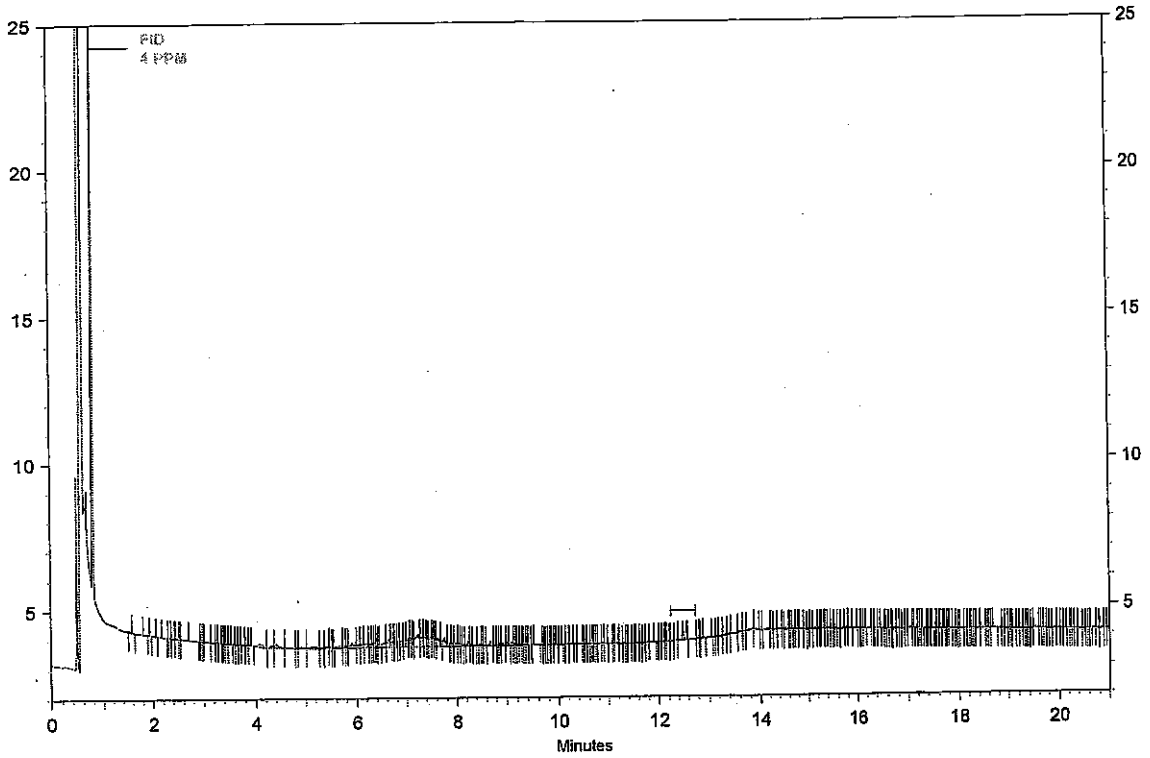
Analyst JL

Reviewed By dam

updated ret. times

nstument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **4 PPM** Data Descritpion: **SV109-1533**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 08-13-14 10-57-57 AM.dat
Aquired: 8/13/2014 10:59:11 AM



FID Results

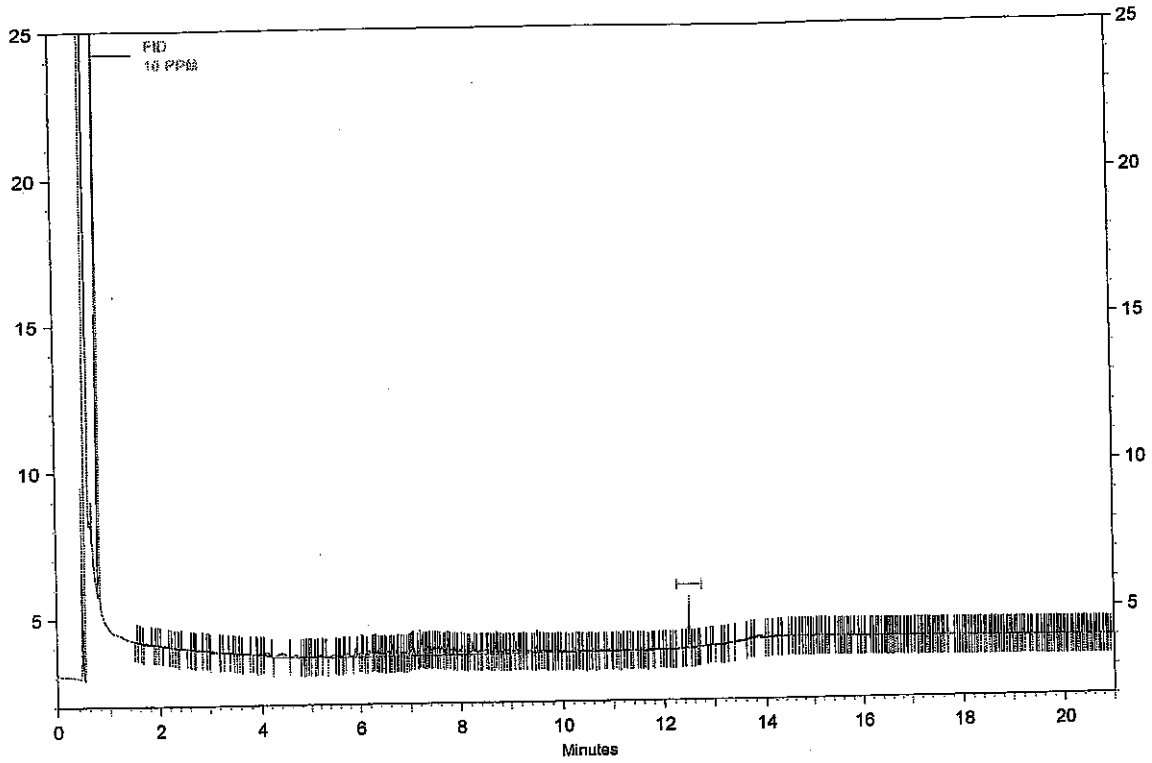
Name	Retention Time	Area	ug/ml
DNOP	12.48	919	0.400 CAL
DRO		27005	4.000 CAL

Analyst EV

Reviewed By Adam

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **10 PPM** Data Descritpion: **SV109-1534**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 08-13-14 11-20-35 AM.dat
Aquired: 8/13/2014 11:28:44 AM



FID Results

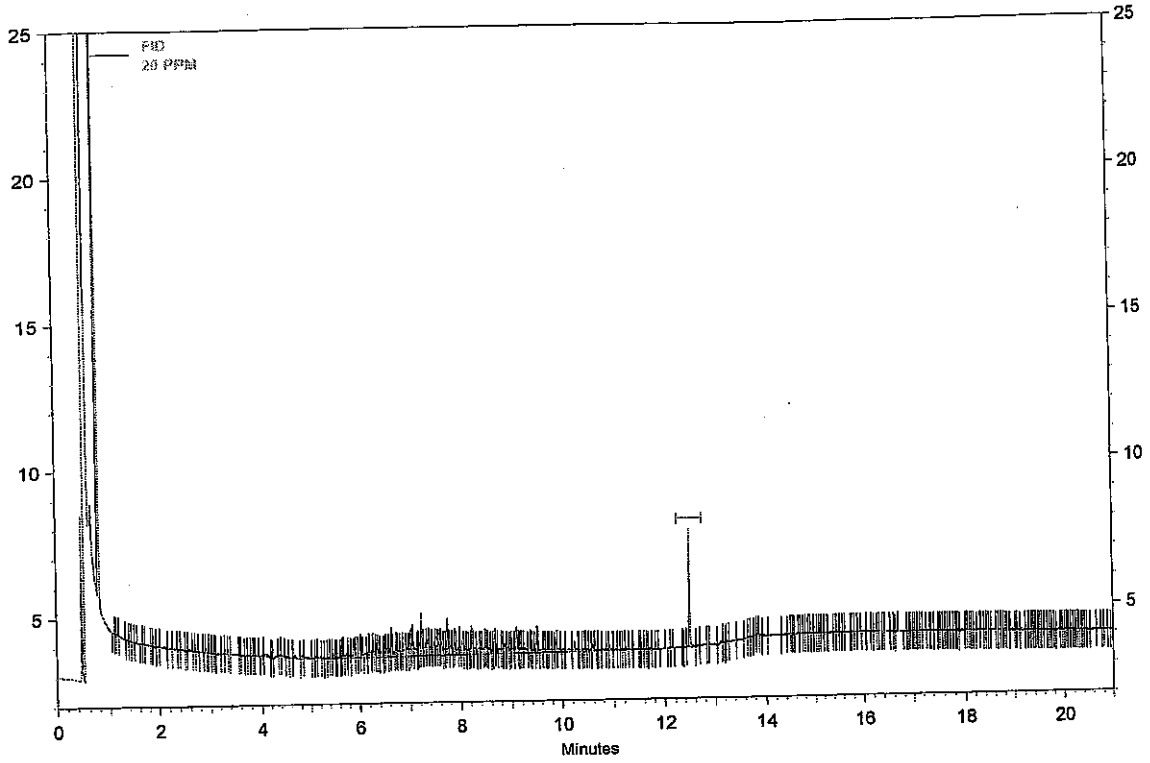
Name	Retention Time	Area	ug/ml
DNOP	12.48	2333	1.000 CAL
DRO		32411	10.000 CAL

Analyst _____

Reviewed By _____

nstument: **FID 2 (Offline)** Vial #: **5** User: **System**
Sample ID: **20 PPM** Data Descritpion: **SV109-1535**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 08-13-14 11-50-07 AM.dat
Aquired: 8/13/2014 11:58:42 AM



FID Results

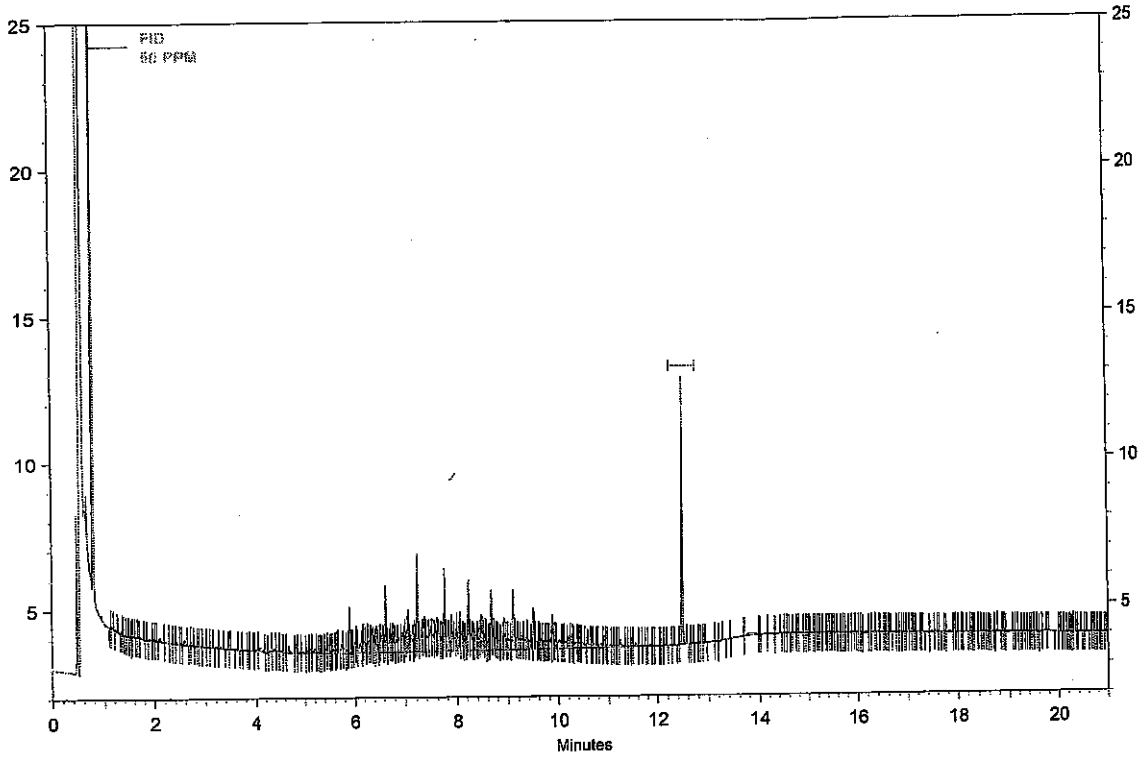
Name	Retention Time	Area	ug/ml
DNOP	12.48	4919	2.000 CAL
DRO		56634	20.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **6** User: **System**
Sample ID: **50 PPM** Data Descritpion: **SV109-1536**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 08-13-14 12-19-53 PM.dat
Aquired: 8/13/2014 12:28:33 PM



FID Results

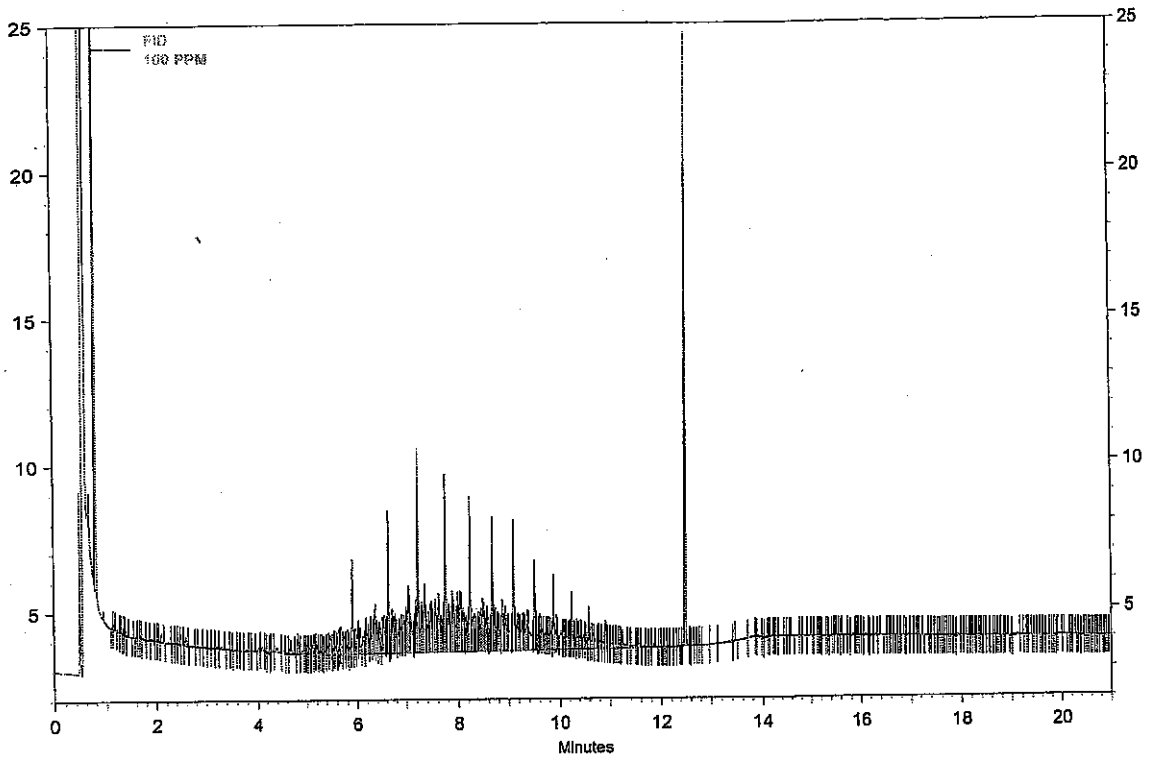
Name	Retention Time	Area	ug/ml
DNOP	12.48	10680	5.000 CAL
DRO		121544	50.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **7** User: **System**
Sample ID: **100 PPM** Data Descritpion: **SV109-1537**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 08-13-14 12-49-56 PM.dat
Aquired: 8/13/2014 12:58:14 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	23365	10.000 CAL
DRO		244238	100.000 CAL

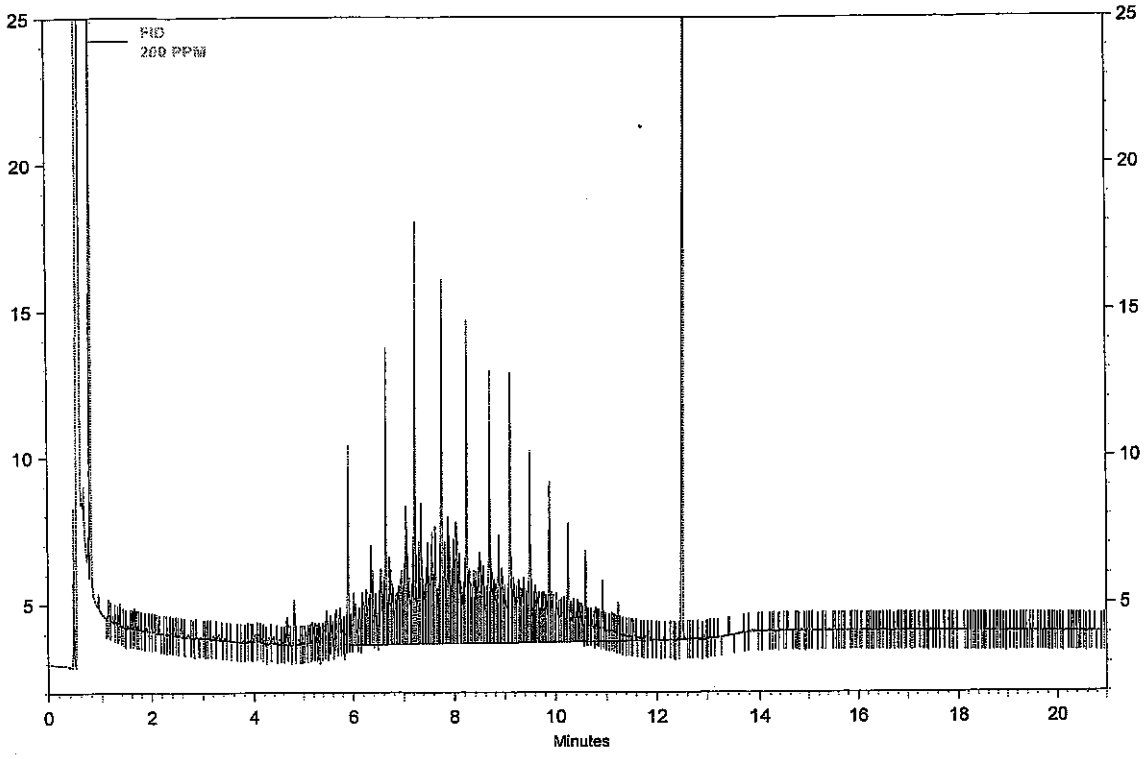
Analyst _____

Reviewed By _____

Instrument: FID 2 (Ohmite) Vial #: 6 User System:

Sample ID: **200 PPM** Data Descritpion: **SV109-1538**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat
Aquired: 8/13/2014 1:28:06 PM



FID Results

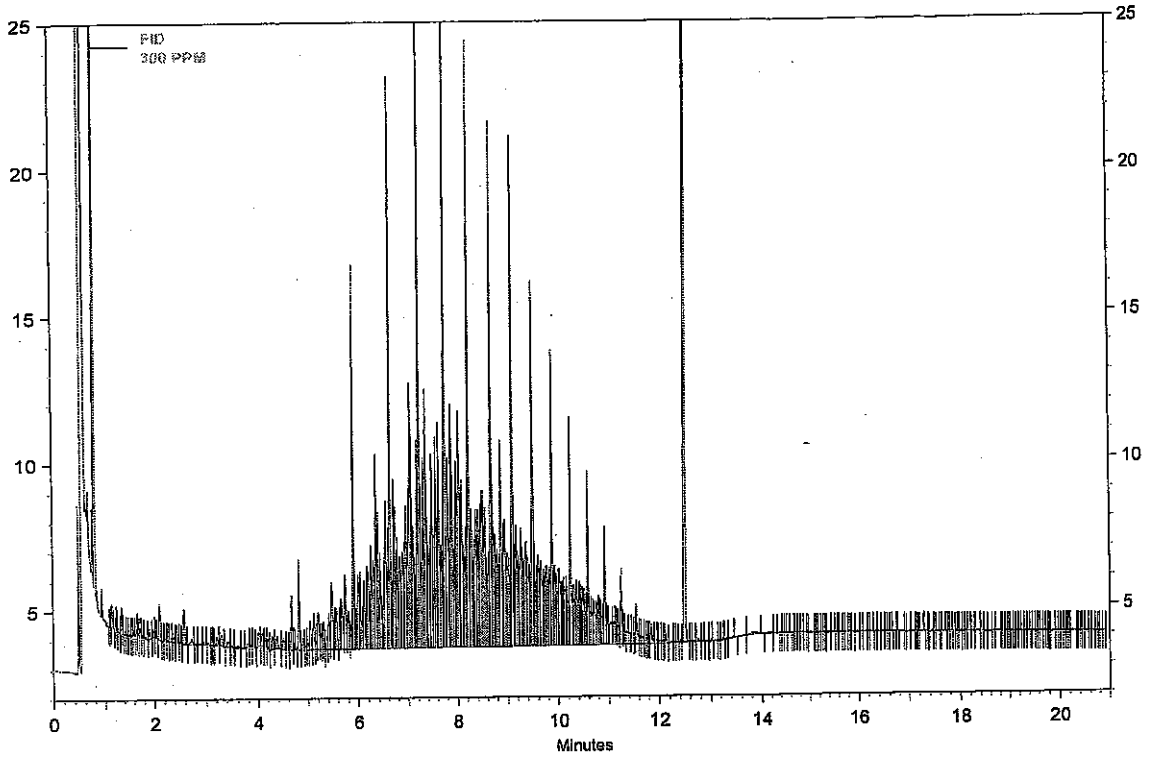
Name	Retention Time	Area	ug/ml
DNOP	12.48	48359	20.000 CAL
DRO		505776	200.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **9** User: **System**
Sample ID: **300 PPM** Data Descritpion: **SV109-1539**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat
Aquired: 8/13/2014 1:57:36 PM



FID Results

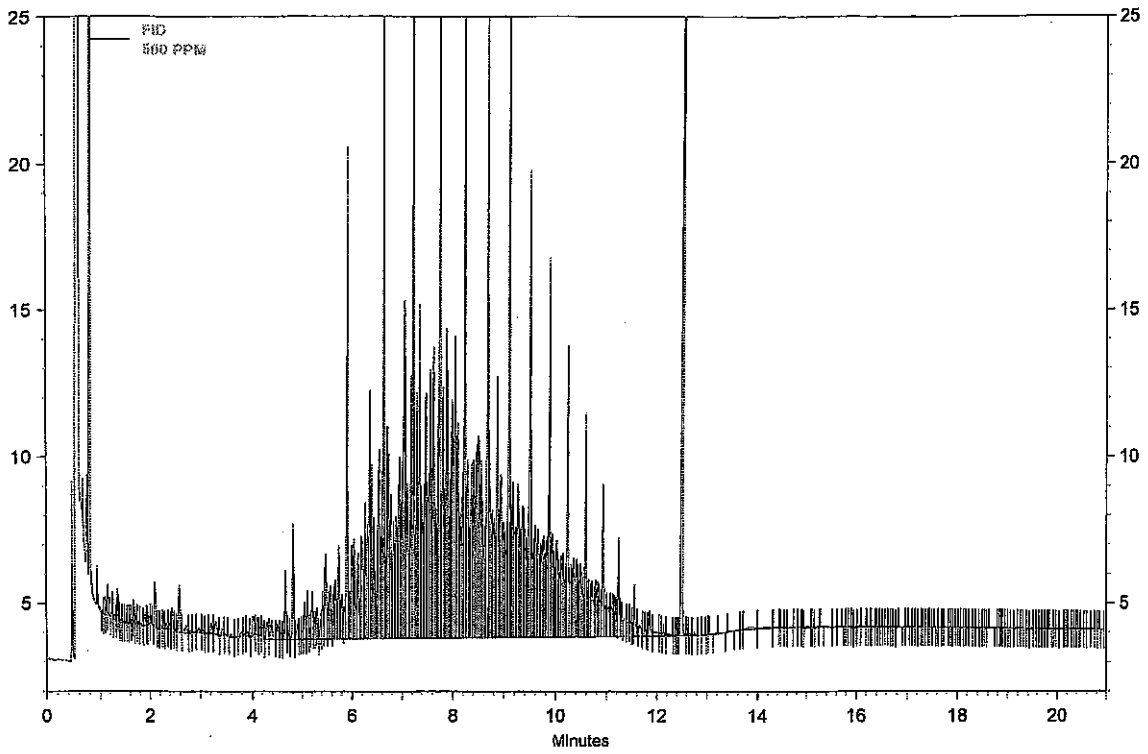
Name	Retention Time	Area	ug/ml
DNOP	12.48	90478	30.000 CAL
DRO		964738	300.000 CAL

Analyst _____

Reviewed By _____

Instrument: FID 2 (Online) Vial #: 10 User: System
Sample ID: **500 PPM** Data Descritpion: **SV109-1540**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat
Aquired: 8/13/2014 2:27:17 PM



FID Results

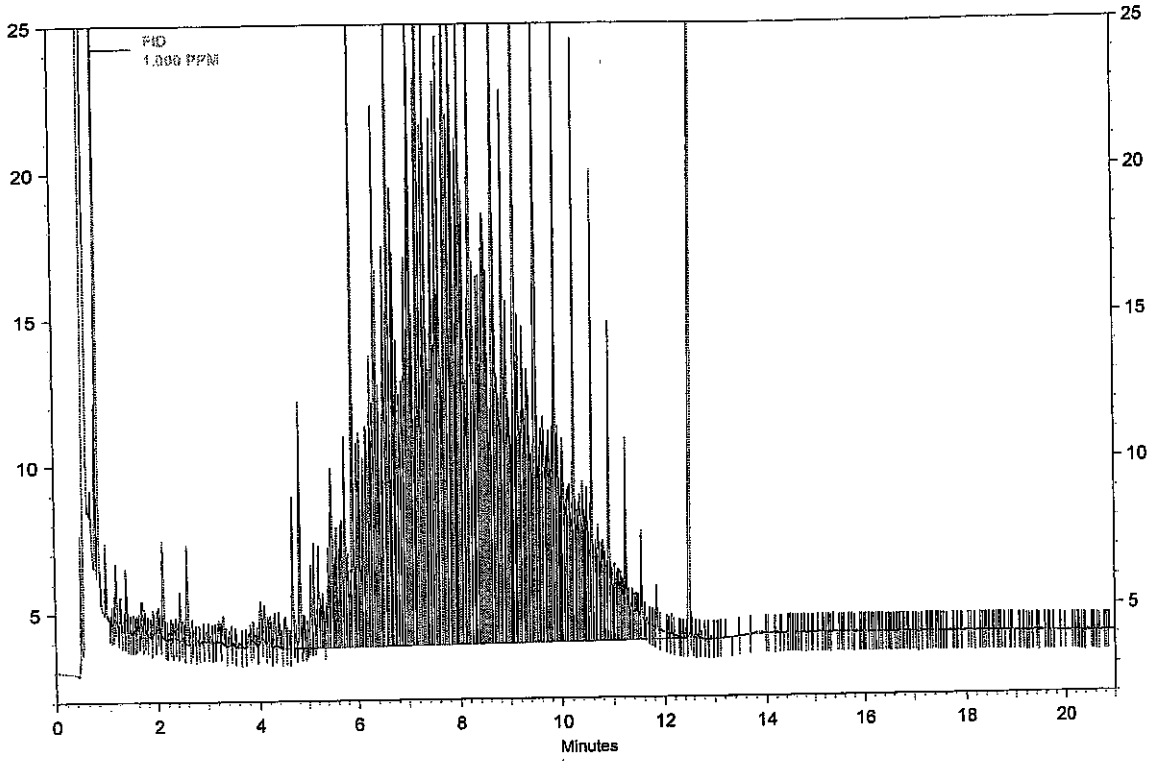
Name	Retention Time	Area	ug/ml
DNOP	12.48	117643	50.000 CAL
DRO		1236689	500.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1,000 PPM** Data Descritpion: **SV109-1541**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Aquired: 8/13/2014 2:56:43 PM



FID Results

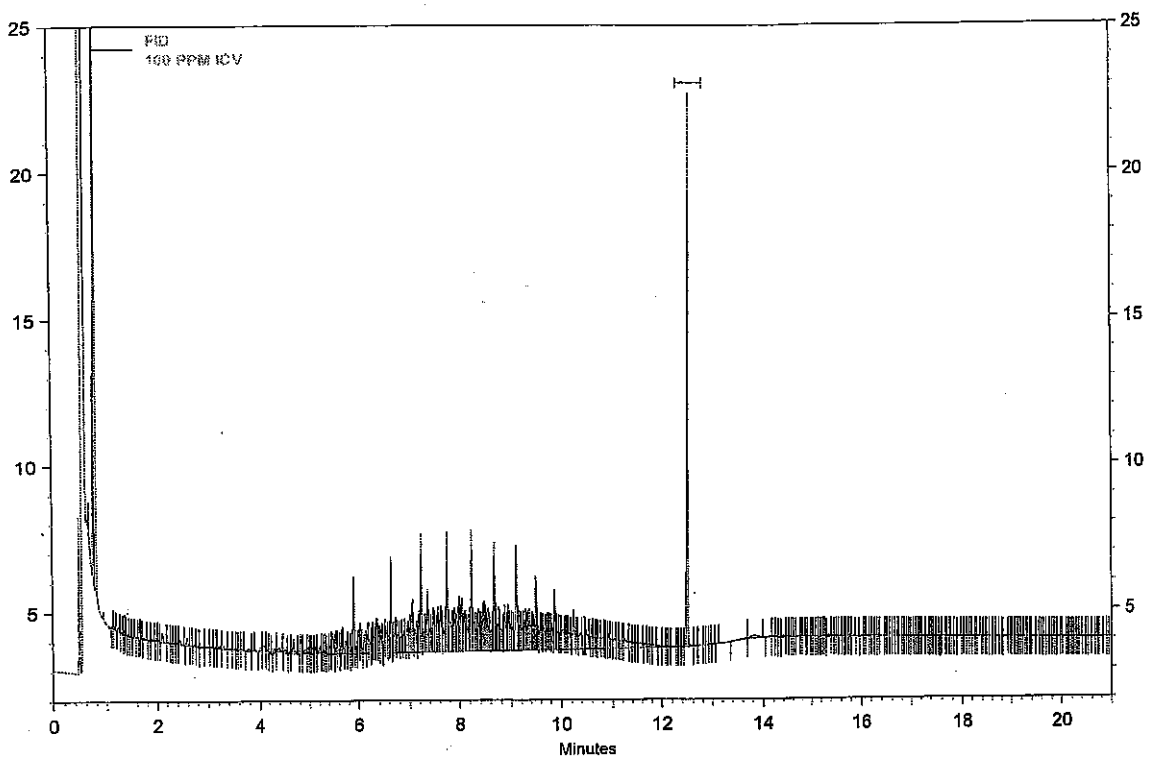
Name	Retention Time	Area	ug/ml
DNOP	12.48	237733	100.000 CAL
DRO		2640934	1000.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **12** User: **System**
Sample ID:. **100 PPM ICV** Data Descritpion: **SV109-1542**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 08-13-14 3-17-55 PM.dat
Aquired: 8/13/2014 3:26:34 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21044	8.233
DRO		230919	85.054
MRO		3140	0.000

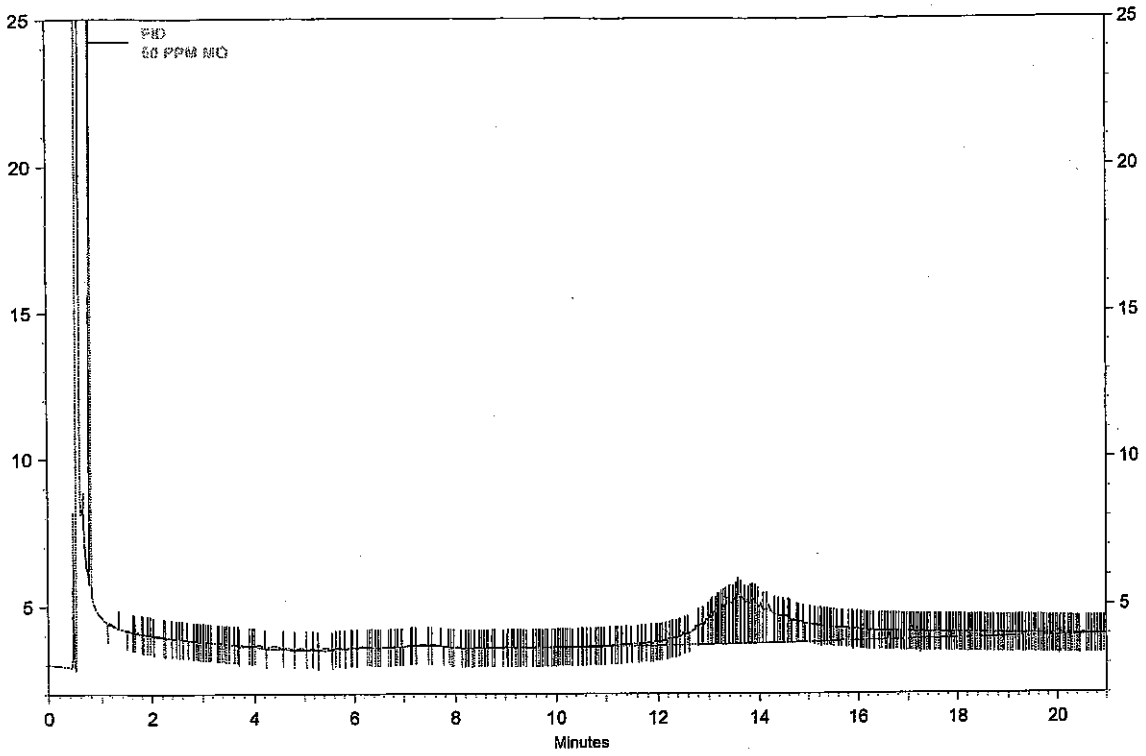
±20%

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **13** User: **System**
Sample ID: **50 PPM MO** Data Descritpion: **SV109-1543**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat
Aquired: 8/13/2014 3:56:20 PM



FID Results

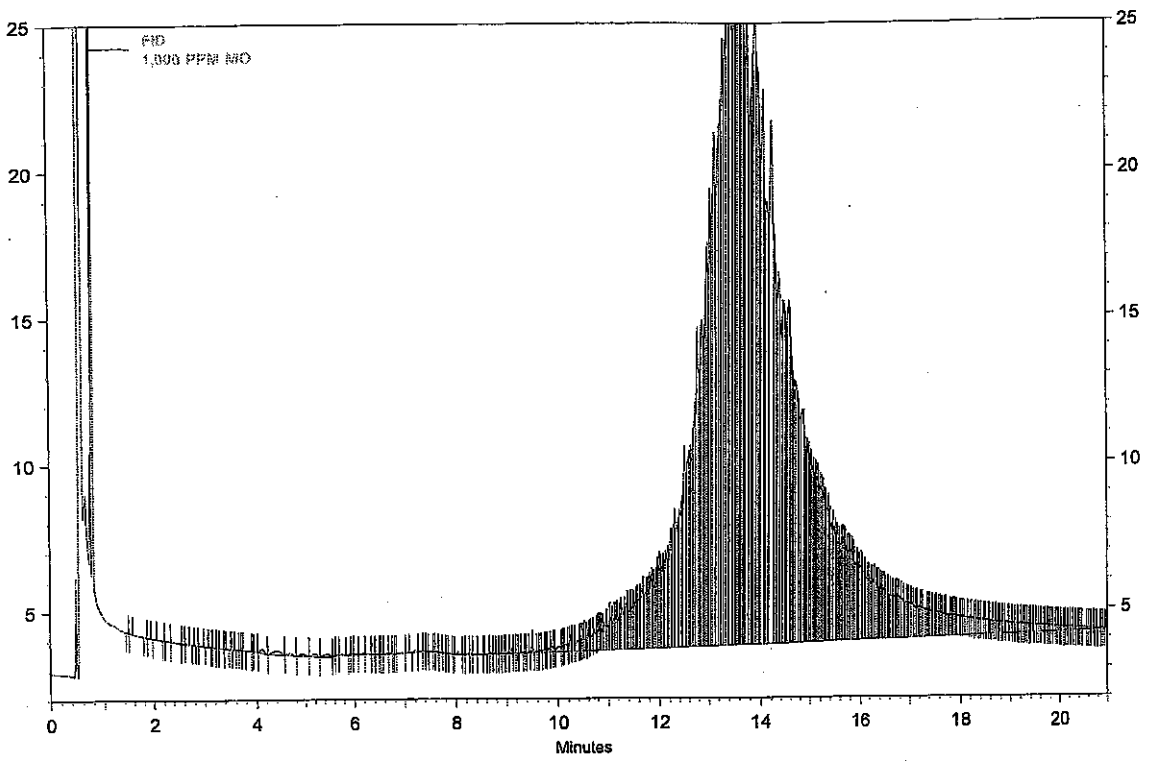
Name	Retention Time	Area	ug/ml
MRO		188011	50.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1,000 PPM MO** Data Descritpion: **SV109-1545**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Aquired: 8/13/2014 4:56:11 PM



FID Results

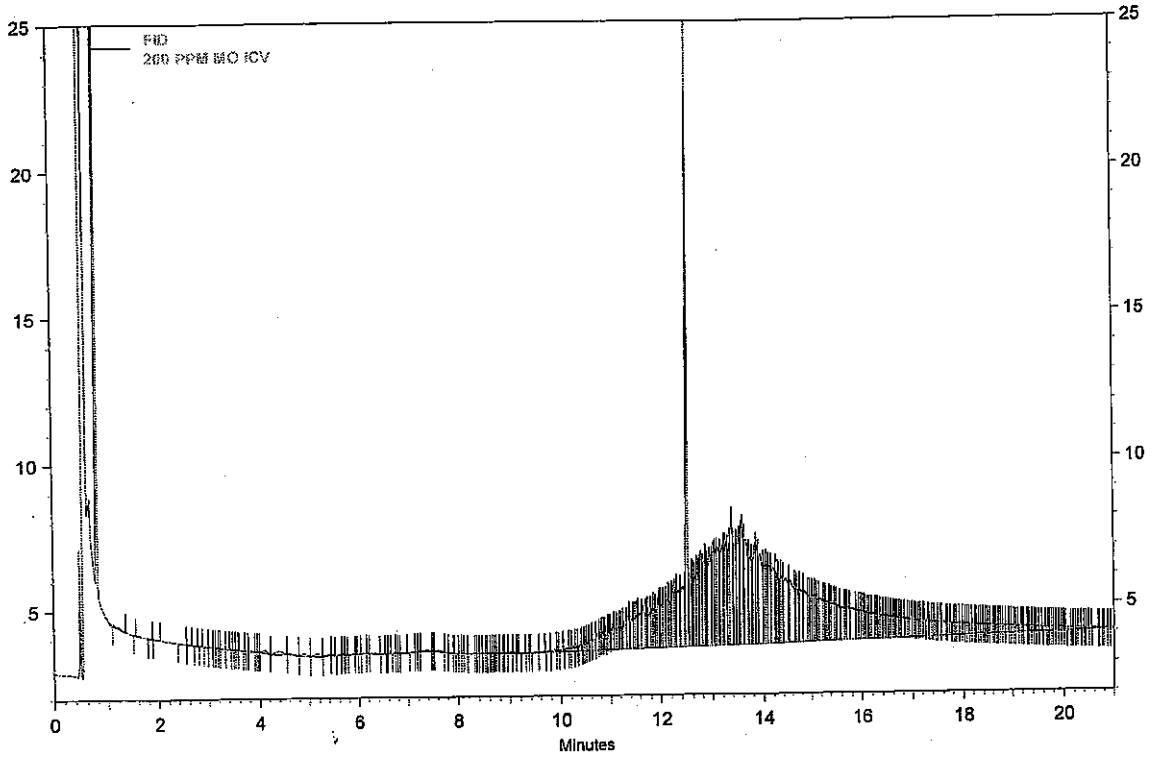
Name	Retention Time	Area	ug/ml
MRO		2159622	1000.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	33450	12.880
DRO		86640	32.346
MRO		485663	200.272

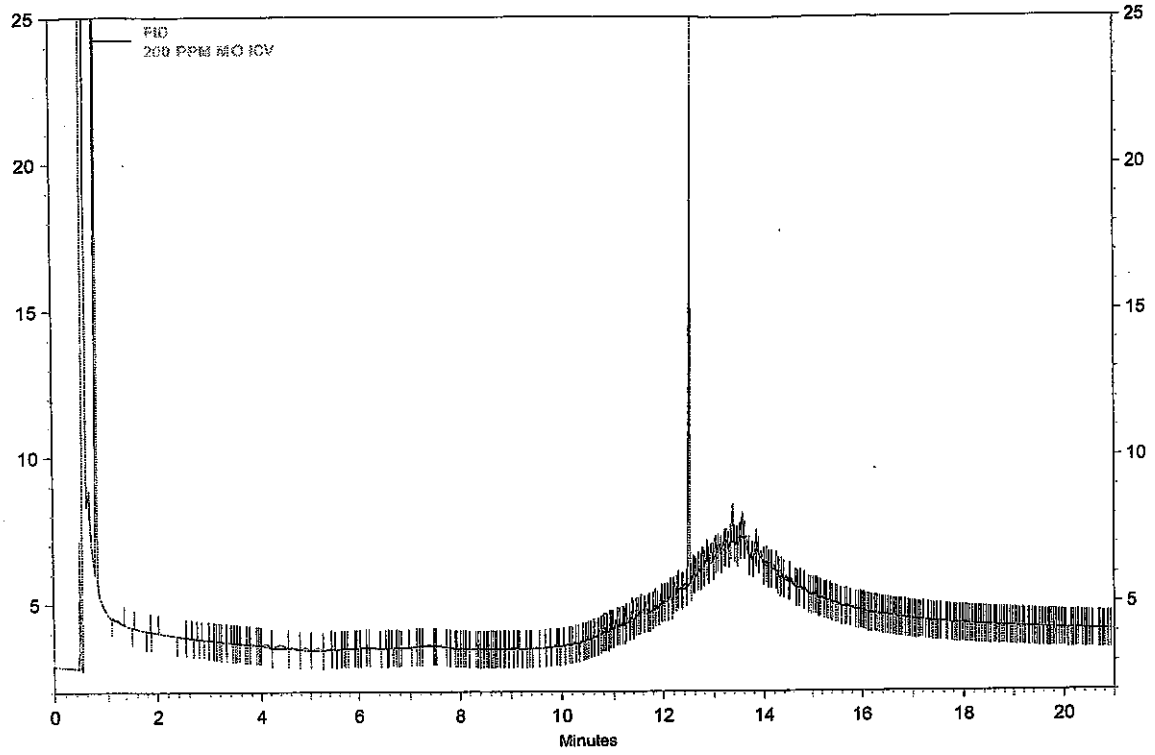
Analyst _____

Reviewed By dnm

12.880
−9.590
3.29
+200.272
203.562 ✓
200 ×100 = 101.781%
±20%

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	25141	9.590
DRO		10275	4.352
MRO		19443	0.000

Analyst _____

Reviewed By _____

Analytical Report
Lab Order: **1408994**
Date Reported:

8-26-14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408994

Lab ID: 1408994-001
Client Sample ID: FFOR-CF-0046

Collection Date: 8/19/2014 8:07:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg-dry	1	R20715	8/20/2014 2:12:53 PM
Surr: BFB	110	61.2-137		%REC	1	R20715	8/20/2014 2:12:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1408994**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-002
Client Sample ID: FFOR-CF-0047
Collection Date: 8/19/2014 3:31:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Toluene	0.071	0.40	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Ethylbenzene	0.63	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2,4-Trimethylbenzene	4.2	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,3,5-Trimethylbenzene	1.5	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2-Dichloroethane (EDC)	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2-Dibromoethane (EDB)	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Naphthalene	0.41	0.79	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Acetone	0.43	6.0	EJ	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Bromobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Bromodichloromethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Bromoform	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Bromomethane	ND	1.2		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
2-Butanone	0.87	4.0	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Carbon disulfide	ND	4.0		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Carbon tetrachloride	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Chlorobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Chloroethane	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Chloroform	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Chloromethane	ND	1.2		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
2-Chlorotoluene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
4-Chlorotoluene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
cis-1,2-DCE	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
cis-1,3-Dichloropropene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2-Dibromo-3-chloropropane	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Dibromochloromethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Dibromomethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,3-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,4-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Dichlorodifluoromethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1-Dichloroethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1-Dichloroethene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2-Dichloropropane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,3-Dichloropropane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
2,2-Dichloropropane	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1-Dichloropropene	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Hexachlorobutadiene	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Comment: Rush due 08/22

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	4.0		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Isopropylbenzene	0.27	0.40	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
4-Isopropyltoluene	0.44	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
4-Methyl-2-pentanone	ND	4.0		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Methylene chloride	ND	1.2		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
n-Butylbenzene	1.0	1.2	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
n-Propylbenzene	0.52	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
sec-Butylbenzene	0.38	0.40	J	mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Styrene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
tert-Butylbenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1,1,2-Tetrachloroethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1,2,2-Tetrachloroethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Tetrachloroethene (PCE)	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
trans-1,2-DCE	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
trans-1,3-Dichloropropene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2,3-Trichlorobenzene	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2,4-Trichlorobenzene	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1,1-Trichloroethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,1,2-Trichloroethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Trichloroethene (TCE)	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Trichlorofluoromethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
1,2,3-Trichloropropane	ND	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Vinyl chloride	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Xylenes, Total	6.6	0.79		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Bromochloromethane	ND	0.40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Vinyl acetate	ND	4.0		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Surr: Dibromofluoromethane	98.5	70-130		%REC	10	R20715	8/20/2014 3:37:21 PM
Surr: 1,2-Dichloroethane-d4	89.2	70-130		%REC	10	R20715	8/20/2014 3:37:21 PM
Surr: Toluene-d8	96.1	70-130		%REC	10	R20715	8/20/2014 3:37:21 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	10	R20715	8/20/2014 3:37:21 PM

Comment: Rush due 08/22

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	380	40		mg/Kg-dry	10	R20715	8/20/2014 3:37:21 PM
Surr: BFB	93.5	61.2-137		%REC	10	R20715	8/20/2014 3:37:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-003
Collection Date:
Client Sample ID: MEOH BLANK
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Toluene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Naphthalene	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Acetone	ND	0.75		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Bromoform	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Bromomethane	ND	0.15		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
2-Butanone	ND	0.50		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Chloroethane	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Chloroform	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Chloromethane	ND	0.15		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RPD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Comment: Rush due 08/22

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Methylene chloride	0.016	0.15	J	mg/Kg	1	R20715	8/20/2014 4:05:29 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Styrene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Surr: Dibromofluoromethane	91.0	70-130		%REC	1	R20715	8/20/2014 4:05:29 PM
Surr: 1,2-Dichloroethane-d4	83.4	70-130		%REC	1	R20715	8/20/2014 4:05:29 PM
Surr: Toluene-d8	93.7	70-130		%REC	1	R20715	8/20/2014 4:05:29 PM
Surr: 4-Bromofluorobenzene	83.0	70-130		%REC	1	R20715	8/20/2014 4:05:29 PM

Comment: Rush due 08/22

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20715	8/20/2014 4:05:29 PM
Surr: BFB	106	61.2-137		%REC	1	R20715	8/20/2014 4:05:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

8/22/14

Analytical Report
Lab Order: **1408994**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-001
Collection Date: 8/19/2014 8:07:00 AM
Client Sample ID: FFOR-CF-0046
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22 L3							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Toluene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Ethylbenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Xylenes, Total	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Methyl tert-butyl ether (MTBE)	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2,4-Trimethylbenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,3,5-Trimethylbenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2-Dichloroethane (EDC)	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2-Dibromoethane (EDB)	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Naphthalene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Acetone	0.0265	0.00702		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Bromobenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Bromodichloromethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Bromoform	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Bromomethane	0.00169	0.00351	J	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
2-Butanone	ND	0.00702		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Carbon tetrachloride	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Chlorobenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Chloroethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Chloroform	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Chloromethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
2-Chlorotoluene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Carbon disulfide	ND	0.00702		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
4-Chlorotoluene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
cis-1,2-DCE	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
cis-1,3-Dichloropropene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2-Dibromo-3-chloropropane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Dibromochloromethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Dibromomethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,3-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,4-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Dichlorodifluoromethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1-Dichloroethane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1-Dichloroethene	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2-Dichloropropane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,3-Dichloropropane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
2,2-Dichloropropane	ND	0.00140		mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408994
Project: Kirtland AFB

Comment: Rush due 08/22

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Hexachlorobutadiene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Isopropylbenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
4-Isopropyltoluene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Methylene chloride	ND	0.00351	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
n-Butylbenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
2-Hexanone	ND	0.00702	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
n-Propylbenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
sec-Butylbenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Styrene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
4-Methyl-2-pentanone	ND	0.00702	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
tert-Butylbenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1,1,2-Tetrachloroethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1,2,2-Tetrachloroethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Tetrachloroethene (PCE)	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
trans-1,2-DCE	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
trans-1,3-Dichloropropene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2,3-Trichlorobenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2,4-Trichlorobenzene	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1,1-Trichloroethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,1,2-Trichloroethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Trichloroethene (TCE)	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Trichlorofluoromethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
1,2,3-Trichloropropane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Vinyl chloride	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Vinyl acetate	ND	0.00702	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Bromochloromethane	ND	0.00140	mg/Kg-dry	1	14860	8/20/2014 3:21:51 PM
Surr: 1,2-Dichloroethane-d4	113	70-130	%REC	1	14860	8/20/2014 3:21:51 PM
Surr: 4-Bromofluorobenzene	94.5	65.3-135	%REC	1	14860	8/20/2014 3:21:51 PM
Surr: Dibromofluoromethane	92.7	70-130	%REC	1	14860	8/20/2014 3:21:51 PM
Surr: Toluene-d8	96.6	70-130	%REC	1	14860	8/20/2014 3:21:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

rian Star Workstation - Generic SampleList Wed Aug 20 14:55:45 2014

mpleList: C:\VarianWS\082014v.smp

eated: Wed Aug 20 08:20:38 2014
dified: Wed Aug 20 14:49:35 2014

****

Line	Sample Name	Injection Notes	
1	b1	below	tune @ 8:38
	Notes All injections contain V-52-0505		
2	rtm	below	
	Notes V-18-2064		
3	2.5ug ccv GRO	below	
	Notes V-18-2061		
4	50ng ccv	below	
	Notes V-54-0466		
5	2.5ug lcs GRO	below	
	Notes V-18-2067		
6	2.5ug ccv GRO2	below	
	Notes V-18-2061		
7	50ng ccv2	below	@ 12:20
	Notes V-54-0466		
8	2.5ug lcs GRO2	below	
	Notes V-11-8061		
9	100ng lcs	below	
	Notes V-11-8065		
10	vcb	none	tune @ 1:44
11	1408994-001a	below	
	Notes x1-100uL GRO		
12	1408994-001a ms	below	
	Notes x1-100uL GRO V-18-2067		✓✓
13	1408994-001a msd	below	
	Notes x1-100uL GRO V-18-2067		✓✓
14	handcalc 1408994-002a	below	
	Notes x10-10uL GRO, 8260		
15	1408994-003a	below	
	Notes x1-100uL GRO, 8260, meoH BLK		
16	1408895-001a	below	
	Notes x1-5mL SL		
17	1408895-001a ms	below	
	Notes x1-5mL SL V-11-8065		rr
18	1408895-001a msd	below	
	Notes x1-5mL SL V-11-8065		rr
19	1408892-001a	below	
	Notes x20-0.25mL SL		
20	b2	none	
21	handcalc 1408898-001a	below	
	Notes x20-0.25mL		rs
22	1408899-001a	below	
	Notes x10-0.5mL		
23	b3	none	
24	LCS-14852	below	rr
	Notes V-11-8065		
25	MB-14852	below	
	Notes 4681		
26	handcalc 1408786-001a	below	
	Notes x1-0.25mL TCLP		
27	1408786-001a ms	below	
	Notes x1-0.25mL TCLP V-11-8065		
28	1408786-001a msd	below	
	Notes x1-0.25mL TCLP V-11-8065		
29	1408786-002a	below	
	Notes x1-0.25mL TCLP		
30	1408890-001a	below	
	Notes x1-0.25mL TCLP		
31	1408900-001a	below	
	Notes x1-0.25mL TCLP		
32	1408911-001a	below	
	Notes x2-2.5mL DDS		@ 12:02
33	tt	none	
34	b4	none	tune @ 12:57
35	100ng ccv	below	
	Notes V-54-0466		@
36	vcb2	none	

PB 14852

Loaded By: KJH 8-20-14
1st Review By: ~~MA 8-21-14~~
QA'd By: WBS 8/25/14
8.26-14

```
      Notes  x2-2.5mL DDS
38  1408911-003a      below   r10 r2
      Notes  x10-0.5mL
39    LCS-14842       below
      Notes  V-11-8062
40    MB-14842        below
      Notes  4681
41  1408900-001a      below   r5 only
      Notes  x50-2uL PB14842
42          b5        none
43  1408892-002a      below
      Notes  x20-0.25mL SL
44  1408892-004a      below
      Notes  x20-0.25mL SL
45  1408892-006a      below
      Notes  x20-0.25mL SL
46  1408892-008a      below
      Notes  x20-0.25mL SL
47          b6        none
48         tt2        none

.rectory for Data Files: C:\VarianWS\data

       Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\082014v.rcl.
```

Loaded By: KJH 8.20.14
1st Review By: 8-21-14
QA'd By: 8/25/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082014v\50ng ccv2 8-20-2014.SMS Lab Sample ID: 50ng ccv2

Instrument ID: VAL Date Analyzed: 8/20/2014 Time Analyzed: 12:20

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	25874	8.00	37698	14.31	18806	17.91						
UPPER LIMIT	51748	8.50	75396	14.81	37612	18.41						
LOWER LIMIT	12937	7.50	18849	13.81	9403	17.41						
EPA SAMPLE NO												
b1 8-20-20	29207	8.00	39262	14.32	22749	17.92						
rtm 8-20-2	24483	8.00	37061	14.31	21442	17.92						
2.5ug ccv	24930	8.00	36686	14.31	21383	17.92						
50ng ccv 8	24561	8.00	38112	14.31	21339	17.92						
2.5ug lcs	25279	8.00	37125	14.32	21340	17.92						
2.5ug ccv	31027	8.00	38284	14.31	19661	17.92						
2.5ug lcs	26185	8.01	35124	14.32	19577	17.92						
100ng lcs	24019	8.01	35245	14.31	17905	17.92						
vcb 8-20-2	23900	8.01	34082	14.31	18215	17.92						
1408994-00	25314	8.00	33857	14.32	20190	17.92						
1408994-00	26931	8.01	34744	14.32	21433	17.92						
1408994-00	27365	8.00	35647	14.32	22363	17.92						
1408994-00	27073	8.01	39133	14.31	20403	17.92						
1408994-00	27646	8.01	35077	14.32	22732	17.92						
1408895-00	24045	8.00	34117	14.31	19002	17.92						
1408895-00	24881	8.00	35173	14.31	19764	17.92						

M 8-21-14

VOB 8/20/14

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408895-00	24244	8.01	34417	14.32	19262	17.92						
1408892-00	22886	8.01	34068	14.32	18357	17.92						
b2 8-20-20	27257	8.01	36985	14.32	20935	17.92						
1408898-00	25784	8.01	37296	14.32	20667	17.92						
1408899-00	27339	8.01	38515	14.32	21207	17.92						
b3 8-20-20	28190	8.01	39148	14.32	21449	17.92						
LCS-14852	25732	8.01	39455	14.32	21430	17.93						
MB-14852 8	25648	8.01	38338	14.32	20803	17.92						
1408786-00	25749	8.01	38511	14.32	21472	17.92						
1408786-00	27391	8.01	40586	14.32	22454	17.92						
1408786-00	28323	8.00	42041	14.31	23062	17.92						
1408786-00	26732	8.01	40274	14.32	22310	17.92						
1408890-00	25230	8.01	38543	14.32	21544	17.92						
1408900-00	28075	8.00	41583	14.31	23803	17.91						
1408911-00	26268	8.00	39584	14.31	22239	17.91						
tt 8-21-20	27333	8.00	41501	14.31	22701	17.92						
b4 8-21-20	31610	8.00	42650	14.32	21325	17.92						
100ng ccv	29585	8.00	44617	14.31	25250	17.91						
vcb2 8-21-	28641	8.00	41235	14.32	22948	17.92						
1408911-00	27622	8.00	41386	14.31	22174	17.92						
1408911-00	25871	8.00	39739	14.31	22246	17.92						
LCS-14842	29387	8.00	42741	14.32	27043	17.92						
MB-14842 8	32218	7.99	41785	14.31	27502	17.92						
1408900-00	28810	8.00	41801	14.31	23610	17.91						
b5 8-21-20	28531	8.00	42405	14.31	23465	17.91						
1408892-00	29353	8.00	43515	14.31	23914	17.91						
1408892-00	27983	8.00	40619	14.31	23306	17.91						
1408892-00	28376	8.00	42655	14.30	23677	17.91						
1408892-00	29298	8.00	43057	14.31	23770	17.92						
b6 8-21-20	28280	8.00	41510	14.31	23894	17.91						
tt2 8-21-2	26971	8.00	40988	14.31	22299	17.91						

8/21/2014 9:20

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/20/2014 Time: 12:20

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv2 8-20-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.092	0.100	50.00	76.80	-53.6	30.0	FAIL	PASS
Chloromethane	0.457	0.100	50.00	49.94	0.1	30.0	PASS	PASS
Vinyl chloride	1.251	0.100	50.00	47.03	5.9	20.0	PASS	PASS
Chloroethane	0.191	0.100	50.00	43.99	12.0	30.0	PASS	PASS
Bromomethane	1.021	0.100	50.00	61.06	-22.1	30.0	PASS	PASS
Trichlorofluoromethane	0.970	0.100	50.00	58.21	-16.4	30.0	PASS	PASS
1,1-Dichloroethene	1.317	0.100	50.00	55.38	-10.8	20.0	PASS	PASS
Acetone	0.500	0.100	100.00	101.45	-1.5	40.0	PASS	PASS
Carbon disulfide	1.142	0.100	100.00	121.09	-21.1	40.0	PASS	PASS
Iodomethane	0.318	0.100	100.00	78.52	21.5	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.395	0.100	100.00	110.94	-10.9	30.0	PASS	PASS
Isopropyl ether	1.481	0.100	100.00	110.85	-10.8	40.0	PASS	PASS
tert-Butyl alcohol	0.258	0.100	1000.00	970.38	3.0	40.0	PASS	PASS
trans-1,2-DCE	1.457	0.100	50.00	53.01	-6.0	30.0	PASS	PASS
tert-Butyl ethyl ether	3.128	0.100	100.00	119.04	-19.0	40.0	PASS	PASS
1,1-Dichloroethane	1.293	0.100	50.00	45.74	8.5	30.0	PASS	PASS
Methylene Chloride	1.546	0.100	50.00	53.19	-6.4	30.0	PASS	PASS
Vinyl Acetate	2.166	0.100	100.00	122.63	-22.6	40.0	PASS	PASS
2,2-Dichloropropane	0.917	0.100	50.00	56.97	-13.9	30.0	PASS	PASS
2-Butanone	0.491	0.100	100.00	97.29	2.7	40.0	PASS	PASS
1,1,1-Trichloroethane	1.588	0.100	50.00	53.66	-7.3	30.0	PASS	PASS
tert-Amyl methyl ether	1.442	0.100	100.00	104.97	-5.0	40.0	PASS	PASS
1,1-Dichloropropene	0.699	0.100	50.00	52.39	-4.8	30.0	PASS	PASS
Carbon Tetrachloride	3.169	0.100	50.00	51.41	-2.8	30.0	PASS	PASS
cis-1,2-DCE	1.991	0.100	50.00	51.92	-3.8	30.0	PASS	PASS
Benzene	1.928	0.100	50.00	53.35	-6.7	30.0	PASS	PASS
Chloroform	1.425	0.100	50.00	57.86	-15.7	20.0	PASS	PASS
Bromochloromethane	0.506	0.100	50.00	58.11	-16.2	30.0	PASS	PASS
Trichloroethene (TCE)	1.343	0.100	50.00	55.66	-11.3	30.0	PASS	PASS
Dibromofluoromethane	1.618	0.100	50.00	46.97	6.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.484	0.100	50.00	48.99	2.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.730	0.100	50.00	53.18	-6.4	30.0	PASS	PASS
1,2-Dichloropropane	1.831	0.100	50.00	50.63	-1.3	20.0	PASS	PASS
4-Methyl-2-pentanone	2.010	0.100	100.00	108.21	-8.2	40.0	PASS	PASS
Toluene-d8	1.819	0.100	50.00	46.49	7.0	30.0	PASS	PASS

5 rr hits

11-8-21-14

✓ 0838/25/14

8/20/2014 12:46

Analyst: RAA

50ng ccv2 8-20-2014.sms

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.795	0.100	50.00	52.92	-5.8	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.955	0.100	100.00	95.41	4.6	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.303	0.100	50.00	51.57	-3.1	30.0	PASS	PASS
cis-1,3-dichloropropene	2.066	0.100	50.00	49.92	0.2	30.0	PASS	PASS
2-Hexanone	1.015	0.100	100.00	111.91	-11.9	40.0	PASS	PASS
Bromodichloromethane	2.587	0.100	50.00	51.67	-3.3	30.0	PASS	PASS
Dibromomethane	1.181	0.100	50.00	50.79	-1.6	30.0	PASS	PASS
1,3-Dichloropropane	1.445	0.100	50.00	49.46	1.1	30.0	PASS	PASS
trans-1,3-dichloropropene	0.793	0.100	50.00	50.86	-1.7	30.0	PASS	PASS
Ethylbenzene	2.980	0.100	50.00	50.74	-1.5	20.0	PASS	PASS
mp-Xylenes	2.732	0.100	100.00	101.49	-1.5	30.0	PASS	PASS
1,1,2-Trichloroethane	1.750	0.100	50.00	50.42	-0.8	30.0	PASS	PASS
Chlorobenzene	1.240	0.300	50.00	47.90	4.2	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.432	0.100	50.00	50.65	-1.3	30.0	PASS	PASS
o-Xylene	2.643	0.100	50.00	49.64	0.7	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.273	0.100	50.00	49.51	1.0	30.0	PASS	PASS
Dibromochloromethane	1.367	0.100	50.00	52.64	-5.3	30.0	PASS	PASS
Isopropylbenzene	2.554	0.100	50.00	49.02	2.0	30.0	PASS	PASS
Styrene	1.179	0.100	50.00	46.72	6.6	30.0	PASS	PASS
n-Propylbenzene	6.586	0.100	50.00	53.75	-7.5	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.925	0.100	50.00	55.47	-10.9	30.0	PASS	PASS
tert-Butylbenzene	5.334	0.100	50.00	54.41	-8.8	30.0	PASS	PASS
2-Chlorotoluene	1.608	0.100	50.00	51.41	-2.8	30.0	PASS	PASS
4-Bromofluorobenzene	1.913	0.100	50.00	46.92	6.2	30.0	PASS	PASS
sec-Butylbenzene	3.165	0.100	50.00	46.54	6.9	30.0	PASS	PASS
4-Chlorotoluene	1.610	0.100	50.00	49.67	0.7	30.0	PASS	PASS
Bromobenzene	1.500	0.100	50.00	55.31	-10.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	5.054	0.100	50.00	53.93	-7.9	30.0	PASS	PASS
4-Isopropyltoluene	5.173	0.100	50.00	52.94	-5.9	30.0	PASS	PASS
Bromoform	1.884	0.100	50.00	54.98	-10.0	30.0	PASS	PASS
1,2,3-Trichloropropane	1.419	0.100	50.00	52.65	-5.3	30.0	PASS	PASS
n-Butylbenzene	4.685	0.100	50.00	51.28	-2.6	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	2.184	0.300	50.00	59.80	-19.6	30.0	PASS	PASS
1,3-Dichlorobenzene	2.193	0.100	50.00	52.42	-4.8	30.0	PASS	PASS
1,4-Dichlorobenzene	2.095	0.100	50.00	51.79	-3.6	30.0	PASS	PASS
1,2-Dichlorobenzene	2.146	0.100	50.00	52.84	-5.7	30.0	PASS	PASS
Hexachlorobutadiene	5.113	0.100	50.00	52.63	-5.3	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.917	0.100	50.00	58.92	-17.8	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.535	0.100	50.00	48.84	2.3	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.659	0.100	50.00	52.21	-4.4	30.0	PASS	PASS
Naphthalene	3.084	0.100	50.00	50.34	-0.7	30.0	PASS	PASS
2-Methylnaphthalene	2.245	0.100	50.00	49.99	0.0	40.0	PASS	PASS
1-Methylnaphthalene	2.252	0.100	50.00	51.72	-3.4	40.0	PASS	PASS

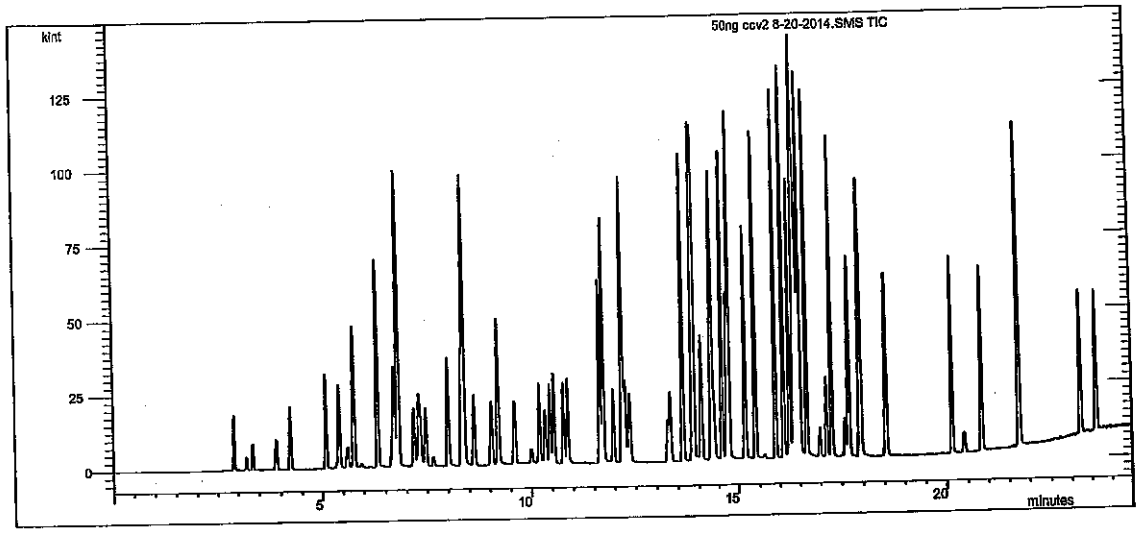
8-21-14

8/25/14

Analyst: RAA

8260B/624 Report

Sample Name:	50ng ccv2	**Operator Name:**	Kaitlyn Hughes	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0466	**Acquisition Date:**	8/20/2014 12:20:20 PM
Calculation Date:	8/20/2014 12:44:49 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.003	636	Identified	25874	50.000
Benzene-d5-, chloro-	14.309	1195	Identified	37698	50.000
1,4-Dichlorobenzene-d4	17.913	1514	Identified	18806	50.000
Dichlorodifluoromethane	2.908	185	Identified	54135	76.799
Chloromethane	3.208	211	Identified	11835	49.944
Vinyl chloride	3.358	225	Identified	32364	47.026
Chloroethane	3.889	272	Identified	4936	43.991
Bromomethane	3.909	274	Identified	26415	61.056
Trichlorofluoromethane	4.232	302	Identified	25088	58.205
1,1-Dichloroethene	5.093	378	Identified	34070	55.380
Acetone	5.377	404	Identified	25872	101.452
Carbon disulfide	5.408	406	Identified	59072	121.093
Iodomethane	5.610	424	Identified	16474	78.524
Methyl tert-butyl ether (MTBE)	5.759	438	Identified	72174	110.938
Isopropyl ether	6.319	487	Identified	76642	110.849
tert-Butyl alcohol	6.668	518	Identified	133444	970.376
trans-1,2-DCE	6.720	523	Identified	37694	53.014
tert-Butyl ethyl ether	6.807	530	Identified	161889	119.035
1,1-Dichloroethane	7.181	563	Identified	33451	45.743
Methylene Chloride	7.302	574	Identified	40012	53.186
Vinyl Acetate	7.355	579	Identified	112088	122.630
2,2-Dichloropropane	7.461	588	Identified	23733	56.969
2-Butanone	7.645	605	Identified	25432	97.289
1,1,1-Trichloroethane	8.317	664	Identified	41079	53.660

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.374	669	Identified	74603	104.968
1,1-Dichloropropene	8.390	670	Identified	18074	52.385
Carbon Tetrachloride	8.619	691	Identified	82000	51.413
cis-1,2-DCE	9.037	728	Identified	51509	51.918
Benzene	9.198	742	Identified	49876	53.351
Chloroform	9.594	777	Identified	36881	57.858
Bromochloromethane	10.004	813	Identified	13105	58.113
Trichloroethene (TCE)	10.197	830	Identified	34745	55.661
Dibromofluoromethane	10.336	843	Identified	41856	46.969
1,2-Dichloroethane-d4	10.448	853	Identified	116025	48.987
1,2-Dichloroethane (EDC)	10.544	862	Identified	44761	53.176
1,2-Dichloropropane	10.771	882	Identified	47377	50.629
4-Methyl-2-pentanone	10.869	891	Identified	104029	108.214
Toluene-d8	11.637	958	Identified	68566	46.488
Toluene	11.718	966	Identified	105348	52.915
2-Chloroethyl vinyl ether	11.969	988	Identified	71997	95.408
Tetrachloroethene (PCE)	12.181	1007	Identified	49124	51.565
cis-1,3-dichloropropene	12.176	1006	Identified	77899	49.924
2-Hexanone	12.187	1007	Identified	76518	111.911
Bromodichloromethane	12.247	1013	Identified	97508	51.669
Dibromomethane	12.353	1022	Identified	44503	50.791
1,3-Dichloropropane	13.256	1102	Identified	54484	49.458
trans-1,3-dichloropropene	13.316	1107	Identified	29893	50.859
Ethylbenzene	13.611	1133	Identified	112351	50.742
mp-Xylenes	13.861	1155	Identified	205985	101.494
1,1,2-Trichloroethane	14.067	1173	Identified	65977	50.424
Chlorobenzene	14.331	1197	Identified	46745	47.901
1,2-Dibromoethane (EDB)	14.389	1202	Identified	53982	50.648
o-Xylene	14.581	1219	Identified	99618	49.645
1,1,1,2-Tetrachloroethane	14.710	1230	Identified	85671	49.511
Dibromochloromethane	14.741	1233	Identified	51520	52.642
Isopropylbenzene	14.772	1236	Identified	96297	49.024
Styrene	15.167	1270	Identified	44434	46.718
n-Propylbenzene	15.407	1292	Identified	123865	53.746
1,3,5-Trimethylbenzene	15.899	1335	Identified	92618	55.472
tert-Butylbenzene	16.093	1352	Identified	100318	54.413
2-Chlorotoluene	16.242	1366	Identified	30242	51.407
4-Bromofluorobenzene	16.340	1374	Identified	35976	46.925
sec-Butylbenzene	16.369	1377	Identified	59520	46.545
4-Chlorotoluene	16.405	1380	Identified	30279	49.666
Bromobenzene	16.445	1383	Identified	28203	55.307
1,2,4-Trimethylbenzene	16.498	1388	Identified	95044	53.930
4-Isopropyltoluene	16.658	1402	Identified	97277	52.943
Bromoform	16.989	1432	Identified	35439	54.982
1,2,3-Trichloropropane	17.159	1447	Identified	26689	52.646
n-Butylbenzene	17.287	1458	Identified	88105	51.284
1,1,2,2-Tetrachloroethane	17.581	1484	Identified	41064	59.800
1,3-Dichlorobenzene	17.668	1492	Identified	41244	52.416
1,4-Dichlorobenzene	17.939	1516	Identified	39392	51.786
1,2-Dichlorobenzene	18.547	1570	Identified	40356	52.844

Operator: Kaitlyn Hughes Inj. Notes: V-54-0466 50ng ccv2 8-20-2014.SMS

8/20/2014 12:45

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.131	1709	Identified	96155	52.631
1,2-Dibromo-3-chloropropane	20.419	1735	Identified	17247	58.922
1,2,4-Trichlorobenzene	20.830	1771	Identified	28864	48.838
1,2,3-Trichlorobenzene	21.733	1851	Identified	31201	52.207
Naphthalene	21.741	1852	Identified	58005	50.338
2-Methylnaphthalene	23.225	1986	Identified	42219	49.989
1-Methylnaphthalene	23.613	2021	Identified	42343	51.715

****
Revision Log
****

8/20/2014 12:44 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/20/2014 Time: 11:52

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug ccv gro2 8-20-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2838.031	0.100	2.50	2.66	-6.5	20.0	PASS	PASS
BFB	0.968	0.100	50.00	46.48	7.0	30.0	PASS	PASS

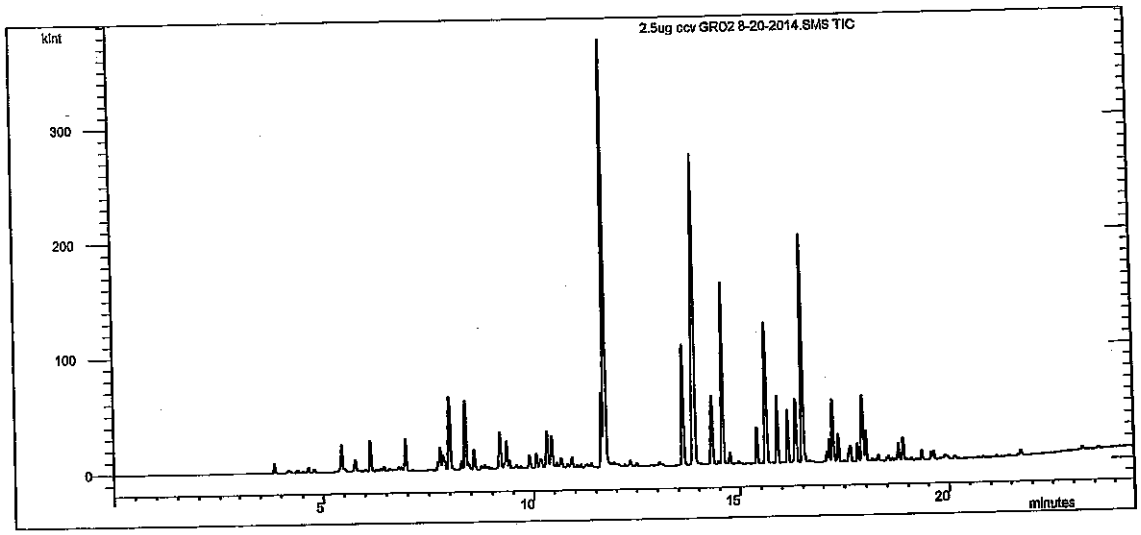
M 8-21-14

✓ 08/8/25/14

Analyst: KJH

8015D MOD GRO

Sample Name:	2.5ug ccv GRO2	**Operator Name:**	Kaitlyn Hughes	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/20/2014 11:52:13 AM
Calculation Date:	8/20/2014 12:17:59 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.312	1196	Identified	38288	50.000
GRO	11.000	903	Identified	5.433E6	2.662
BFB	16.346	1376	Identified	37046	46.479

```
**********************************************************
Revision Log
**********************************************************

8/20/2014 12:16 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
8/20/2014 12:17 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
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arian Star Workstation - Generic SampleList Mon Aug 25 09:03:57 2014

mpleList: C:\VarianWS\082114v.smp

eated: Thu Aug 21 09:21:33 2014
odified: Fri Aug 22 05:15:29 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0509	
2	5mL-rb	none
3	rtm	below
	Notes V-18-2064	
4	2.25ug gro ccv	below
	Notes V-18-2061	
5	2.5ug gro lcs	below
	Notes V-18-2067	
6	75ng ccv	below
	Notes V-54-0466	
7	100ng lcs	below
	Notes V-11-8065	
8	vcb	none
9	1408a76-001a	below
	Notes x10-10uL MeOH G, 8260	
10	1408a76-002a	below
	Notes x5-20uL MeOH G, 8260 r20	
11	1408a76-003a	below
	Notes x10-10uL MeOH G, 8260 r20	
12	1408a76-004a	below
	Notes x1-100uL MeOH Blk G, 8260 r1	
13	1408a76-001a ms	below
	Notes x10 MeOH 8260 V-11-8065	
14	1408a76-001a msd	below
	Notes x10 MeOH 8260 V-11-8065	
15	1408a76-001a ms g	below
	Notes x10 MeOH GRO V-18-2067	
16	1408a76-001a msd g	below
	Notes x10 MeOH GRO V-18-2067	
17	1408994-001a ms	below
	Notes MeOH GRO V-18-2067	
18	1408994-001a msd	below
	Notes MeOH GRO V-18-2067	
19	1408994-002a ms	below
	Notes x10 MeOH 8260 V-11-8065	
20	1408994-002a msd	below
	Notes x10 MeOH 8260 V-11-8065	
21	1408895-001a ms	below
	Notes SL_W V-11-8065	
22	1408895-001a msd	below
	Notes SL_W V-11-8065	
23	1408898-001a	below
	Notes r5-1mL	
24	1408911-003a	below
	Notes r2-2.5mL DDS	
25	1408900-001a	below
	Notes r5-20uL PB14842	
26	1408900-001ams	below
	Notes r5 V-11-8065 PB14842	
27	1408900-001amsd	below
	Notes r5 V-11-8065 PB14842	
28	lcs-14852	below
	Notes V-11-8065 TCLP	
29	lcs-14844	below
	Notes V-11-8065 oil	
30	lcsd-14844	below
	Notes V-11-8065 oil	
31	mb-14844	below
	Notes #4681 oil	
32	tt	none
33	b2	none
34	50ng ccv	below
	Notes v-54-0466	
35	vcb	none
36	1408904-003a	below

Loaded By: 9-21-14
1st Review By: 9-22-14
QA'd By: NB 8/25/14
JC 8.26.14

```
37          1408904-007a      below
               Notes  x100-1uL oil pb14844
38 nanbal <  1408906-001a      below
               Notes  x100-1uL oil pb14844
39          1408906-002a      below
               Notes  x100-1uL oil pb14844
40          1408906-003a      below
               Notes  x100-1uL oil pb14844
41          1408906-004a      below
               Notes  x100-1uL oil pb14844
42          1408906-005a      below
               Notes  x100-1uL oil pb14844
43          1408a51-001a      below
               Notes  x2 2.5mL dds
44       1408a51-001ams       below
               Notes  x2 v-11-8065 dds
45      1408a51-001amsd       below
               Notes  x2 v-11-8065 dds
46          1408a51-002a      below
               Notes  x500 0.01ml
47          1408a51-002a      below
               Notes  r50 0.1mL
48          1408a51-003a      below
               Notes  x2 2.5mL dds
49                   tt       none
50

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\082114v.rcl.
```

software glitch data not acquired

Loaded By: 8.21.14
1st Review By: 8.22.14
QA'd By: 8/25/14

8.26.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\082114v\75ng ccv 8-21-2014.SMS Lab Sample ID: 75ng ccv

Instrument ID: VAL Date Analyzed: 8/21/2014 Time Analyzed: 11:57

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	29751	8.00	44379	14.31	22620	17.91						
UPPER LIMIT	59502	8.50	88758	14.81	45240	18.41						
LOWER LIMIT	14876	7.50	22190	13.81	11310	17.41						
EPA SAMPLE NO												
b1 8-21-20	34150	7.98	43723	14.31	21376	17.92						
5mL-rb 8-2	33447	8.00	44396	14.30	21875	17.91						
rtm 8-21-2	30206	8.00	40702	14.30	20877	17.91						
2.25ug gro	30746	8.00	43749	14.31	23187	17.91						
2.5ug gro	30907	7.99	45318	14.31	22780	17.91						
100ng lcs	30629	8.00	43559	14.31	22361	17.91						
vcb 8-21-2	29822	8.00	41747	14.31	21454	17.91						
1408a76-00	32099	8.00	44330	14.31	23204	17.92						
1408a76-00	33932	8.00	48503	14.31	26182 D	17.92 D						
1408a76-00	31412	8.00	45895	14.31	23380 D	17.92 D						
1408a76-00	30585	8.00	41016	14.31	27317	17.92						
1408a76-00	32220	8.00	45871	14.31	24612	17.91						
1408a76-00	32535	8.00	44956	14.31	25508 D	17.92 D						
1408a76-00	36262	8.00	49578	14.31	27185 D	17.92 D						
1408a76-00	34729	8.00	49084	14.31	26520 D	17.91 D						
1408994-00	32864	8.00	41457	14.32	28306	17.92						

8/22/2014 12:03

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408994-00	35287	8.00	44216	14.32	30541	17.92						
1408994-00	34748	8.01	49972	14.31	26711	17.92						
1408994-00	33134	8.00	48780	14.31	25797	17.92						
1408895-00	30341	8.00	43650	14.31	23880	17.92						
1408895-00	29896	8.00	43854	14.31	23853	17.92						
1408898-00	29961	8.00	43648	14.31	23715	17.91						
1408911-00	29558	8.00	43233	14.31	24172	17.92						
1408900-00	33807	8.00	49713	14.31	24520 D	17.91 D						
1408900-00	36980	8.01	52280	14.31	20979 D	17.92 D						
1408900-00	38232	8.00	53229	14.31	24967 D	17.92 D						
lcs-14852	34354	8.00	47454	14.31	27301	17.91						
lcs-14844	34452	8.00	44226	14.32	30792	17.92						
lcsd-14844	32961	8.00	44622	14.31	30676	17.92						
mb-14844 8	34498	7.99	46075	14.31	31179	17.91						
tt 8-22-20	33004	8.00	47339	14.31	26177	17.92						
b2 8-22-20	29660	8.00	42143	14.32	24291	17.92						
50ng ccv 8	29991	8.00	44179	14.32	24625	17.92						
vcb 8-22-2	33159	8.00	46357	14.31	25999	17.91						
1408904-00	30436	8.00	44340	14.31	25301	17.92						
1408904-00	28478	8.00	41152	14.31	24039	17.92						
1408906-00	29214	8.00	43902	14.31	24347	17.92						
1408906-00	29437	8.00	44514	14.31	25188	17.91						
1408906-00	30544	8.00	46820	14.31	25425	17.91						
1408906-00	31820	8.00	46576	14.31	24817	17.92						
1408906-00	32102	8.00	46916	14.31	25982	17.92						
1408a51-00	30306	8.00	45639	14.31	26242	17.91						

RT 8-22-14

JB 8/25/14

Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/21/2014 Time: 10:59

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.25ug gro ccv 8-21-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2777.942	0.100	2.25	2.29	-1.8	20.0	PASS	PASS
BFB	0.990	0.100	50.00	47.58	4.8	30.0	PASS	PASS

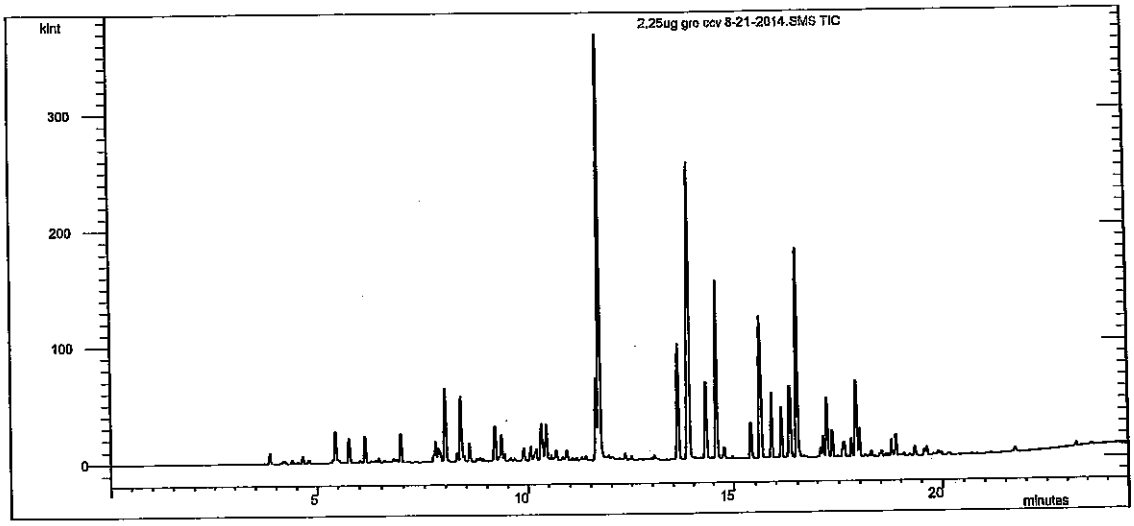
8.22.14

✓ WB 8/25/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/21/2014 10:59:22 AM
Calculation Date:	8/21/2014 11:30:27 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1199	Identified	43093	50.000
GRO	11.000	905	Identified	5.387E6	2.291
BFB	16.339	1379	Identified	42682	47.579

```
**********************************************************
Revision Log
**********************************************************

8/21/2014 11:23 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
8/21/2014 11:30 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/21/2014 Time: 11:57

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 8-21-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.040	0.100	75.00	112.14	-49.5	30.0	FAIL	PASS
Chloromethane	0.447	0.100	75.00	72.86	2.9	30.0	PASS	PASS
Vinyl chloride	1.448	0.100	75.00	80.67	-7.6	20.0	PASS	PASS
Chloroethane	0.199	0.100	75.00	67.41	10.1	30.0	PASS	PASS
Bromomethane	0.703	0.100	75.00	63.02	16.0	30.0	PASS	PASS
Trichlorofluoromethane	0.958	0.100	75.00	86.56	-15.4	30.0	PASS	PASS
1,1-Dichloroethene	1.311	0.100	75.00	82.19	-9.6	20.0	PASS	PASS
Acetone	0.420	0.100	150.00	128.53	14.3	40.0	PASS	PASS
Carbon disulfide	1.094	0.100	150.00	174.57	-16.4	40.0	PASS	PASS
Iodomethane	0.315	0.100	150.00	106.87	28.8	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.335	0.100	150.00	159.51	-6.3	30.0	PASS	PASS
Isopropyl ether	1.512	0.100	150.00	169.29	-12.9	40.0	PASS	PASS
tert-Butyl alcohol	0.299	0.100	1500.00	1662.66	-10.8	40.0	PASS	PASS
trans-1,2-DCE	1.499	0.100	75.00	81.22	-8.3	30.0	PASS	PASS
tert-Butyl ethyl ether	3.040	0.100	150.00	173.38	-15.6	40.0	PASS	PASS
1,1-Dichloroethane	1.415	0.100	75.00	74.00	1.3	30.0	PASS	PASS
Methylene Chloride	1.485	0.100	75.00	76.21	-1.6	30.0	PASS	PASS
Vinyl Acetate	2.445	0.100	150.00	205.08	-36.7	40.0	PASS	PASS
2,2-Dichloropropane	0.891	0.100	75.00	83.28	-11.0	30.0	PASS	PASS
2-Butanone	0.540	0.100	150.00	152.46	-1.6	40.0	PASS	PASS
1,1,1-Trichloroethane	1.560	0.100	75.00	79.00	-5.3	30.0	PASS	PASS
tert-Amyl methyl ether	1.399	0.100	150.00	152.92	-1.9	40.0	PASS	PASS
1,1-Dichloropropene	0.676	0.100	75.00	76.19	-1.6	30.0	PASS	PASS
Carbon Tetrachloride	3.356	0.100	75.00	81.73	-9.0	30.0	PASS	PASS
cis-1,2-DCE	1.995	0.100	75.00	77.74	-3.6	30.0	PASS	PASS
Benzene	1.949	0.100	75.00	80.96	-8.0	30.0	PASS	PASS
Chloroform	1.399	0.100	75.00	85.04	-13.4	20.0	PASS	PASS
Bromochloromethane	0.486	0.100	75.00	83.68	-11.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.266	0.100	75.00	78.76	-5.0	30.0	PASS	PASS
Dibromofluoromethane	1.586	0.100	50.00	46.09	7.8	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.575	0.100	50.00	49.86	0.3	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.752	0.100	75.00	80.07	-6.8	30.0	PASS	PASS
1,2-Dichloropropane	1.964	0.100	75.00	80.76	-7.7	20.0	PASS	PASS
4-Methyl-2-pentanone	2.130	0.100	150.00	170.66	-13.8	40.0	PASS	PASS
Toluene-d8	1.769	0.100	50.00	45.29	9.4	30.0	PASS	PASS

8/21/2014 12:53 Page 1 of 2 75ng ccv 8-21-2014.sms

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.653	0.100	75.00	75.42	-0.6	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.955	0.100	150.00	142.21	5.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.264	0.100	75.00	75.15	-0.2	30.0	PASS	PASS
cis-1,3-dichloropropene	2.011	0.100	75.00	72.77	3.0	30.0	PASS	PASS
2-Hexanone	0.969	0.100	150.00	159.85	-6.6	40.0	PASS	PASS
Bromodichloromethane	2.486	0.100	75.00	74.23	1.0	30.0	PASS	PASS
Dibromomethane	1.156	0.100	75.00	74.69	0.4	30.0	PASS	PASS
1,3-Dichloropropane	1.455	0.100	75.00	74.70	0.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.733	0.100	75.00	70.45	6.1	30.0	PASS	PASS
Ethylbenzene	2.964	0.100	75.00	75.63	-0.8	20.0	PASS	PASS
mp-Xylenes	2.676	0.100	150.00	149.00	0.7	30.0	PASS	PASS
1,1,2-Trichloroethane	1.701	0.100	75.00	73.18	2.4	30.0	PASS	PASS
Chlorobenzene	1.245	0.300	75.00	72.04	3.9	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.413	0.100	75.00	75.09	-0.1	30.0	PASS	PASS
o-Xylene	2.640	0.100	75.00	74.37	0.8	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.193	0.100	75.00	71.66	4.5	30.0	PASS	PASS
Dibromochloromethane	1.283	0.100	75.00	74.14	1.1	30.0	PASS	PASS
Isopropylbenzene	2.541	0.100	75.00	73.10	2.5	30.0	PASS	PASS
Styrene	1.173	0.100	75.00	69.49	7.3	30.0	PASS	PASS
n-Propylbenzene	6.424	0.100	75.00	78.59	-4.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.592	0.100	75.00	77.74	-3.7	30.0	PASS	PASS
tert-Butylbenzene	5.031	0.100	75.00	77.18	-2.9	30.0	PASS	PASS
2-Chlorotoluene	1.579	0.100	75.00	75.79	-1.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.896	0.100	50.00	46.52	7.0	30.0	PASS	PASS
sec-Butylbenzene	3.107	0.100	75.00	68.39	8.8	30.0	PASS	PASS
4-Chlorotoluene	1.562	0.100	75.00	72.11	3.9	30.0	PASS	PASS
Bromobenzene	1.438	0.100	75.00	79.71	-6.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.912	0.100	75.00	78.68	-4.9	30.0	PASS	PASS
4-Isopropyltoluene	4.911	0.100	75.00	75.42	-0.6	30.0	PASS	PASS
Bromoform	1.723	0.100	75.00	75.24	-0.3	30.0	PASS	PASS
1,2,3-Trichloropropane	1.413	0.100	75.00	78.76	-5.0	30.0	PASS	PASS
n-Butylbenzene	4.688	0.100	75.00	76.68	-2.2	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	2.098	0.300	75.00	86.00	-14.7	30.0	PASS	PASS
1,3-Dichlorobenzene	2.064	0.100	75.00	73.92	1.4	30.0	PASS	PASS
1,4-Dichlorobenzene	1.980	0.100	75.00	73.33	2.2	30.0	PASS	PASS
1,2-Dichlorobenzene	2.002	0.100	75.00	74.01	1.3	30.0	PASS	PASS
Hexachlorobutadiene	4.876	0.100	75.00	75.30	-0.4	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.849	0.100	75.00	81.86	-9.1	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.532	0.100	75.00	72.81	2.9	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.622	0.100	75.00	76.46	-1.9	30.0	PASS	PASS
Naphthalene	3.094	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
2-Methylnaphthalene	2.242	0.100	75.00	74.57	0.6	40.0	PASS	PASS
1-Methylnaphthalene	2.203	0.100	75.00	75.67	-0.9	40.0	PASS	PASS

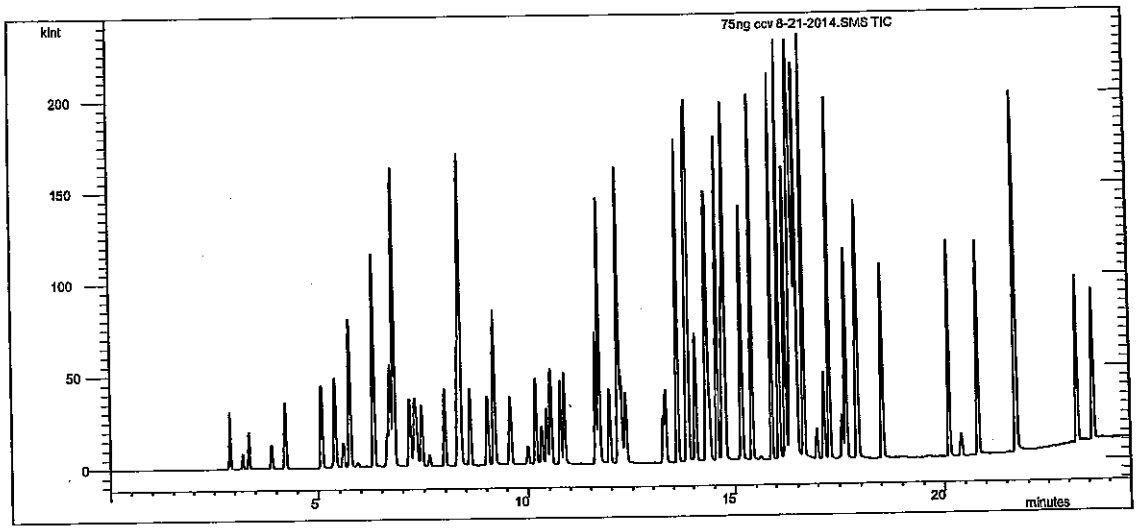
8-22-14

DBB 8/25/14

Analyst: RAA

8260B/624 Report

Sample Name:	75ng ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0466	**Acquisition Date:**	8/21/2014 11:57:01 AM
Calculation Date:	8/21/2014 12:21:30 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.996	636	Identified	29751	50.000
Benzene-d5-, chloro-	14.306	1195	Identified	44379	50.000
1,4-Dichlorobenzene-d4	17.910	1515	Identified	22620	50.000
Dichlorodifluoromethane	2.904	184	Identified	91019	112.140
Chloromethane	3.205	211	Identified	19940	72.860
Vinyl chloride	3.353	224	Identified	64602	80.666
Chloroethane	3.886	272	Identified	8872	67.412
Bromomethane	3.904	273	Identified	31355	63.023
Trichlorofluoromethane	4.227	302	Identified	42770	86.563
1,1-Dichloroethene	5.088	378	Identified	58493	82.194
Acetone	5.370	403	Identified	37503	128.534
Carbon disulfide	5.401	406	Identified	97643	174.566
Iodomethane	5.601	424	Identified	28140	106.867
Methyl tert-butyl ether (MTBE)	5.754	437	Identified	119129	159.514
Isopropyl ether	6.312	487	Identified	134943	169.294
tert-Butyl alcohol	6.642	516	Identified	267260	1662.657
trans-1,2-DCE	6.714	522	Identified	66899	81.225
tert-Butyl ethyl ether	6.801	530	Identified	271351	173.384
1,1-Dichloroethane	7.174	563	Identified	63125	74.004
Methylene Chloride	7.296	573	Identified	66285	76.213
Vinyl Acetate	7.349	578	Identified	218236	205.078
2,2-Dichloropropane	7.455	588	Identified	39764	83.284
2-Butanone	7.637	604	Identified	48166	152.458
1,1,1-Trichloroethane	8.312	664	Identified	69631	78.997

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.369	669	Identified	124858	152.920
1,1-Dichloropropene	8.383	670	Identified	30152	76.195
Carbon Tetrachloride	8.614	690	Identified	149768	81.727
cis-1,2-DCE	9.031	727	Identified	89015	77.736
Benzene	9.191	742	Identified	86987	80.964
Chloroform	9.590	777	Identified	62449	85.044
Bromochloromethane	10.001	813	Identified	21704	83.678
Trichloroethene (TCE)	10.191	830	Identified	56489	78.760
Dibromofluoromethane	10.329	843	Identified	47192	46.091
1,2-Dichloroethane-d4	10.443	853	Identified	136097	49.862
1,2-Dichloroethane (EDC)	10.537	861	Identified	78186	80.073
1,2-Dichloropropane	10.766	882	Identified	87652	80.763
4-Methyl-2-pentanone	10.863	890	Identified	190118	170.662
Toluene-d8	11.631	958	Identified	78498	45.288
Toluene	11.711	965	Identified	176613	75.416
2-Chloroethyl vinyl ether	11.963	988	Identified	127105	142.208
Tetrachloroethene (PCE)	12.174	1006	Identified	84128	75.149
cis-1,3-dichloropropene	12.173	1006	Identified	133883	72.769
2-Hexanone	12.180	1007	Identified	129045	159.852
Bromodichloromethane	12.241	1012	Identified	165463	74.227
Dibromomethane	12.347	1022	Identified	76964	74.687
1,3-Dichloropropane	13.251	1102	Identified	96885	74.704
trans-1,3-dichloropropene	13.310	1107	Identified	48820	70.446
Ethylbenzene	13.608	1133	Identified	197339	75.631
mp-Xylenes	13.857	1155	Identified	356221	149.002
1,1,2-Trichloroethane	14.063	1173	Identified	113256	73.178
Chlorobenzene	14.328	1197	Identified	82877	72.042
1,2-Dibromoethane (EDB)	14.383	1202	Identified	94085	75.093
o-Xylene	14.577	1219	Identified	175740	74.370
1,1,1,2-Tetrachloroethane	14.705	1230	Identified	146001	71.658
Dibromochloromethane	14.735	1233	Identified	85413	74.143
Isopropylbenzene	14.768	1236	Identified	169120	73.104
Styrene	15.162	1271	Identified	78054	69.492
n-Propylbenzene	15.403	1292	Identified	217961	78.588
1,3,5-Trimethylbenzene	15.894	1336	Identified	155820	77.740
tert-Butylbenzene	16.090	1353	Identified	170684	77.183
2-Chlorotoluene	16.239	1366	Identified	53568	75.791
4-Bromofluorobenzene	16.337	1375	Identified	42897	46.519
sec-Butylbenzene	16.365	1377	Identified	105436	68.395
4-Chlorotoluene	16.402	1381	Identified	53003	72.107
Bromobenzene	16.442	1384	Identified	48804	79.707
1,2,4-Trimethylbenzene	16.494	1389	Identified	166663	78.676
4-Isopropyltoluene	16.654	1403	Identified	166630	75.417
Bromoform	16.986	1433	Identified	58459	75.236
1,2,3-Trichloropropane	17.156	1448	Identified	47935	78.758
n-Butylbenzene	17.283	1459	Identified	159072	76.683
1,1,2,2-Tetrachloroethane	17.577	1485	Identified	71191	86.002
1,3-Dichlorobenzene	17.663	1493	Identified	70019	73.925
1,4-Dichlorobenzene	17.935	1517	Identified	67189	73.326
1,2-Dichlorobenzene	18.541	1571	Identified	67938	74.006

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.126	1710	Identified	165457	75.297
1,2-Dibromo-3-chloropropane	20.415	1736	Identified	28813	81.855
1,2,4-Trichlorobenzene	20.824	1772	Identified	51965	72.812
1,2,3-Trichlorobenzene	21.727	1852	Identified	55024	76.457
Naphthalene	21.735	1853	Identified	104968	75.376
2-Methylnaphthalene	23.220	1987	Identified	76075	74.573
1-Methylnaphthalene	23.609	2023	Identified	74738	75.670

****
Revision Log
****

8/21/2014 12:21 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

eList: C:\VarianWS\080114v.smp

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none tune@7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By: KSH 8/4/14
QA'd By: 8-4-14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: V61 **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Ks-hits UQL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pQL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cc-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pQL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: and

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VQL: 22.0-27.5
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH 8/4/14

8.4.14

Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15	100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16	227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17	500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18	b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19	b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20	100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21	b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

8-4-14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 8/1/2014 8/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 22:52 22:52

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.265	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

JAF 8.4.14 KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

JAB 8.4.14

8/4/2014 9:03

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

2 - hits on different crv.

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

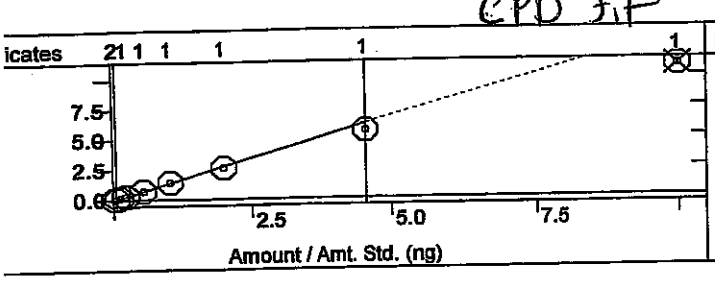
KJH 8/4/14

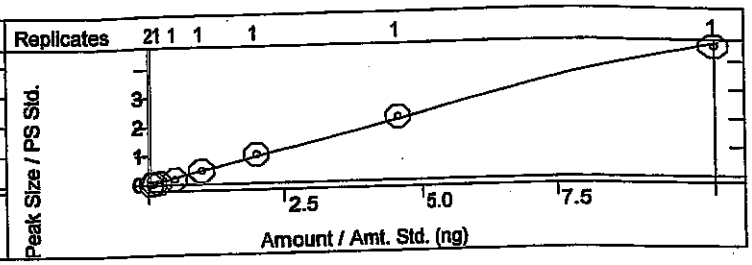
Analyst: KJH

hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
= +1.3682x -0.0093

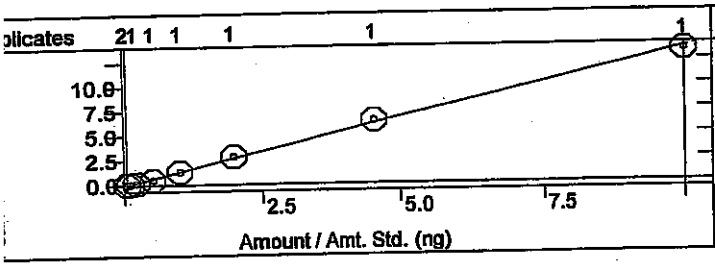
CPD Fit





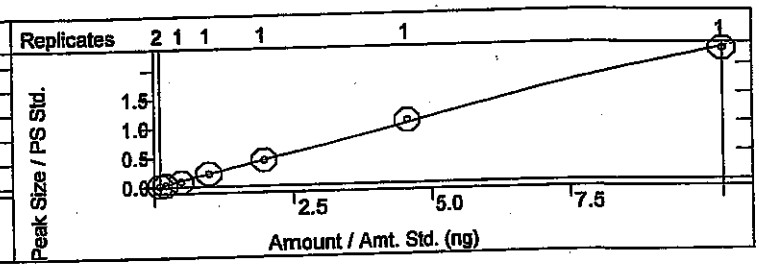
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

nyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361



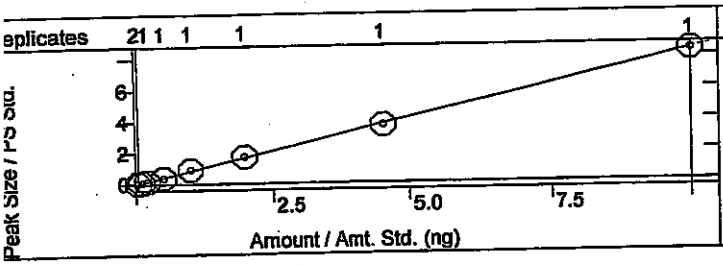
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

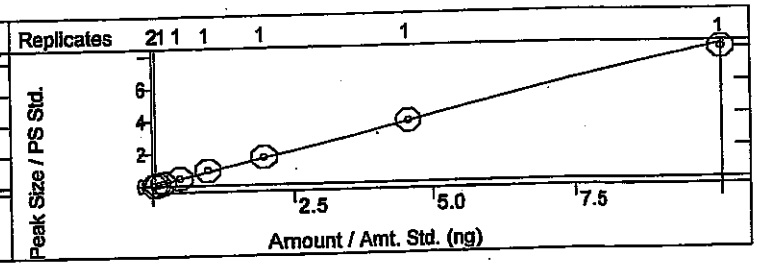
CPD Fit



romomethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
= +0.8387x -0.0032

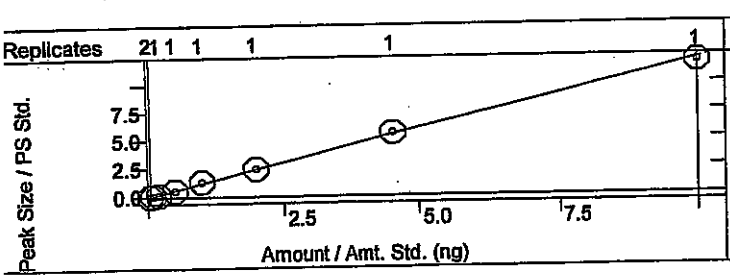
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090

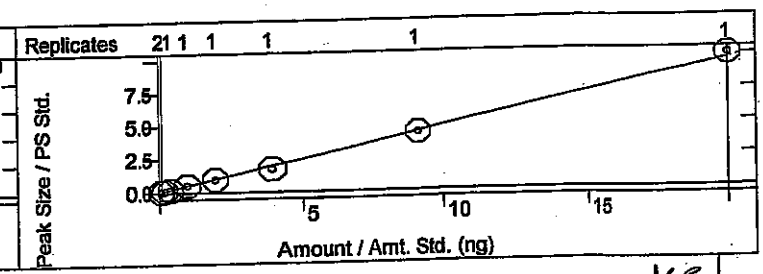




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237





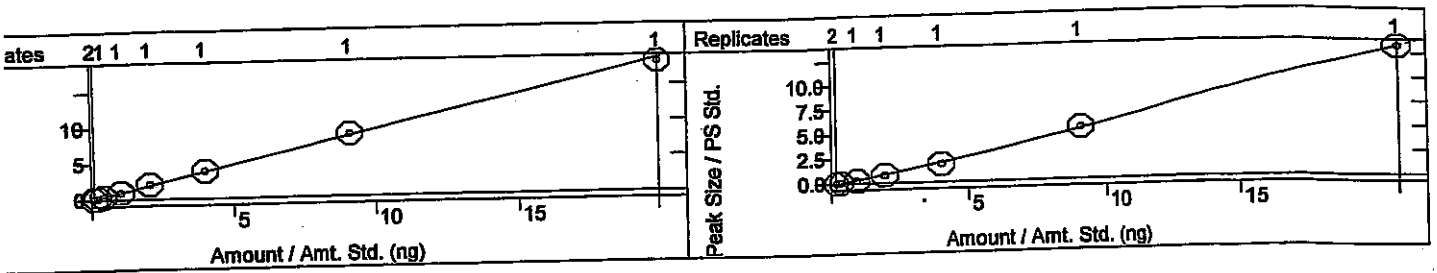
KSH 8/4/14

od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ole List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

on disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
p. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

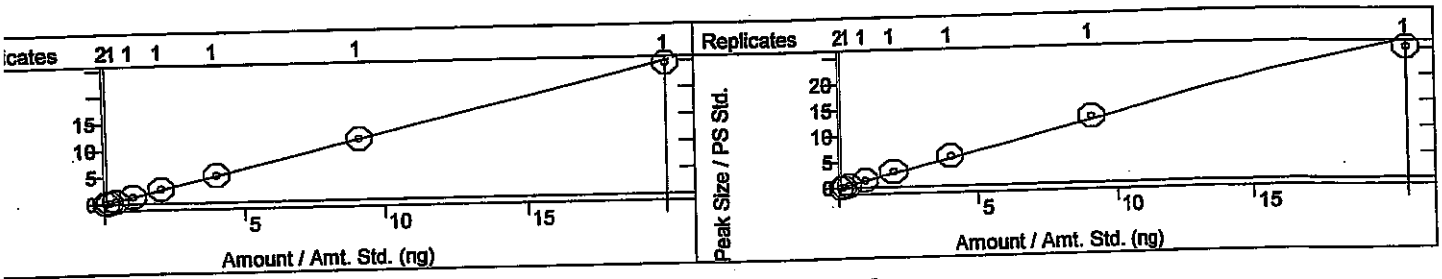
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

CPD Fit



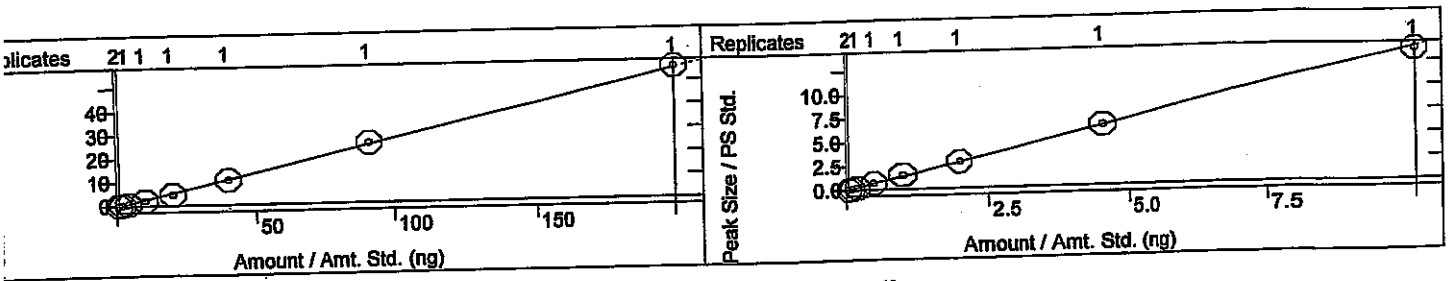
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



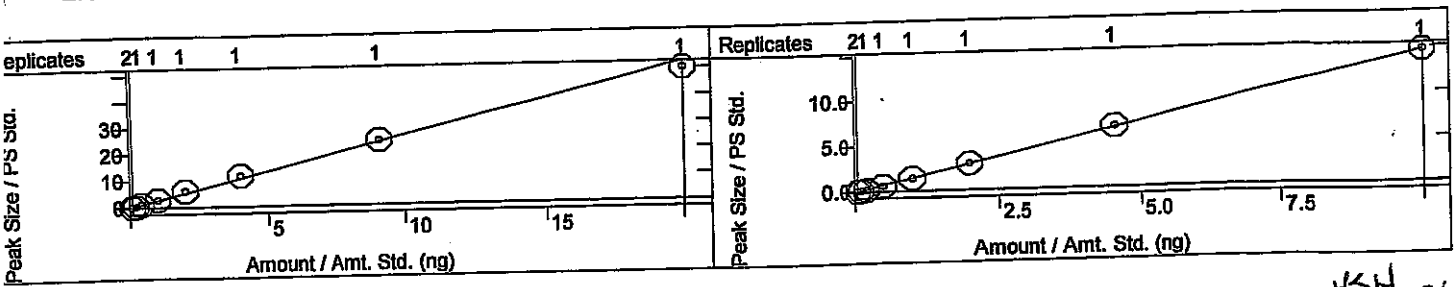
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489

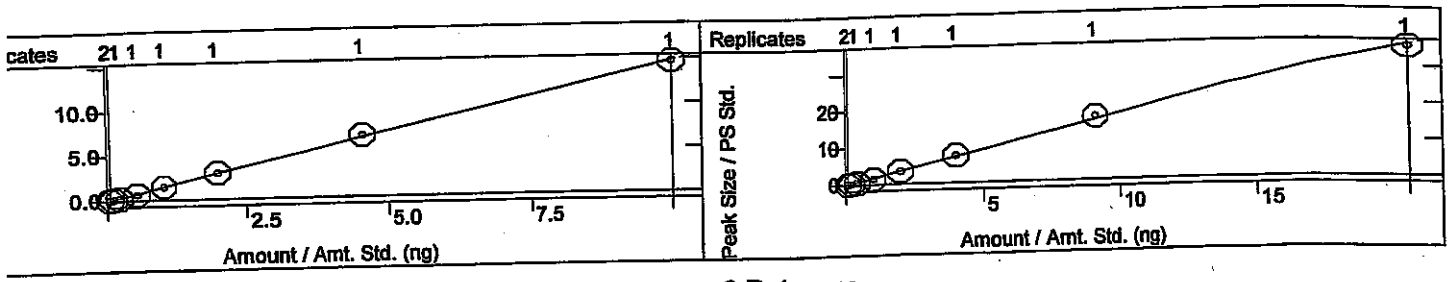


KSH 8/4/14

ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıuence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

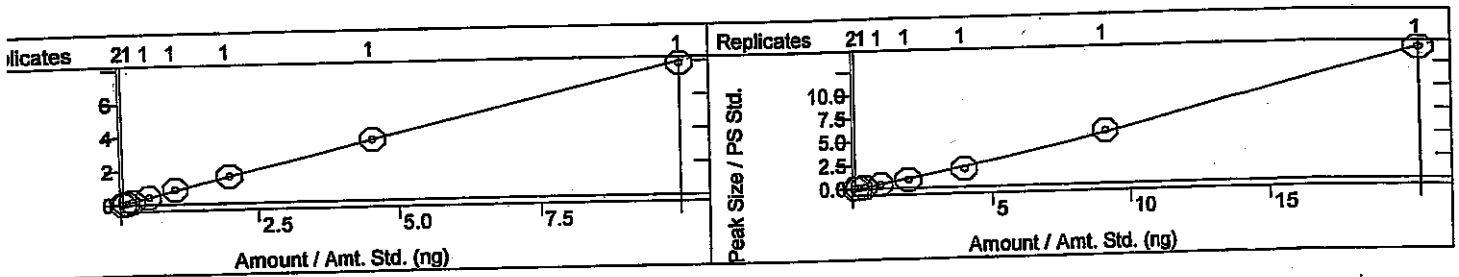
hylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ɜp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278

Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



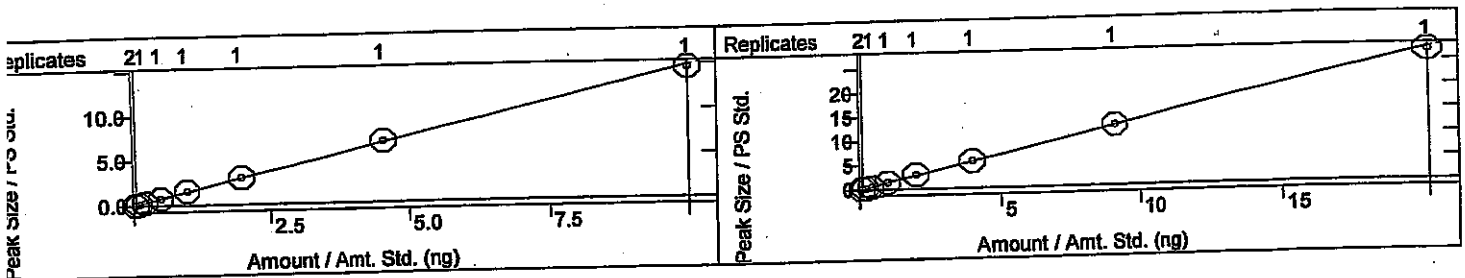
-Dichloropropane
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ɜsp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



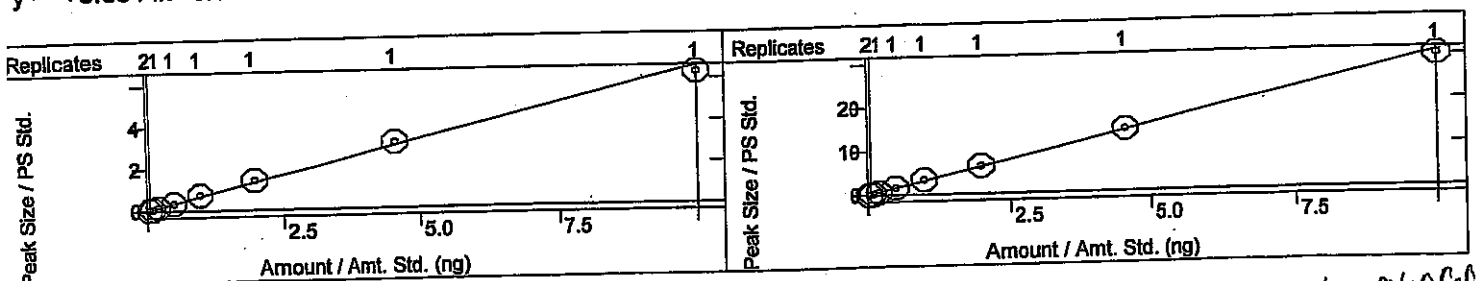
,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



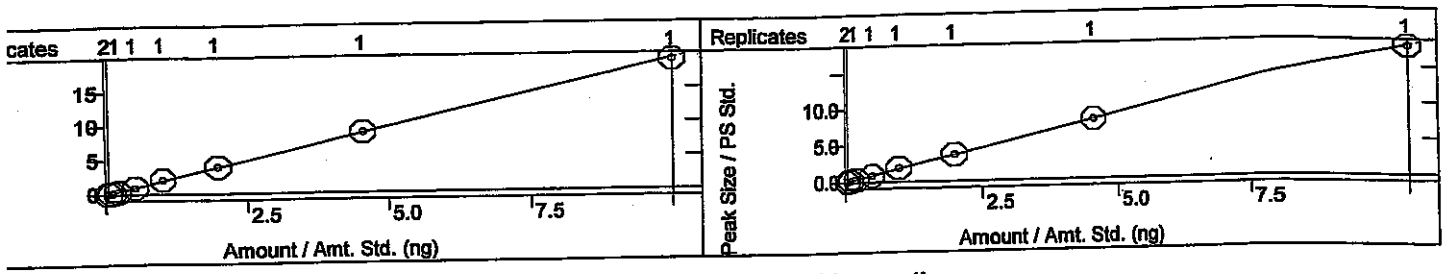
KSH 8/4/14

ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

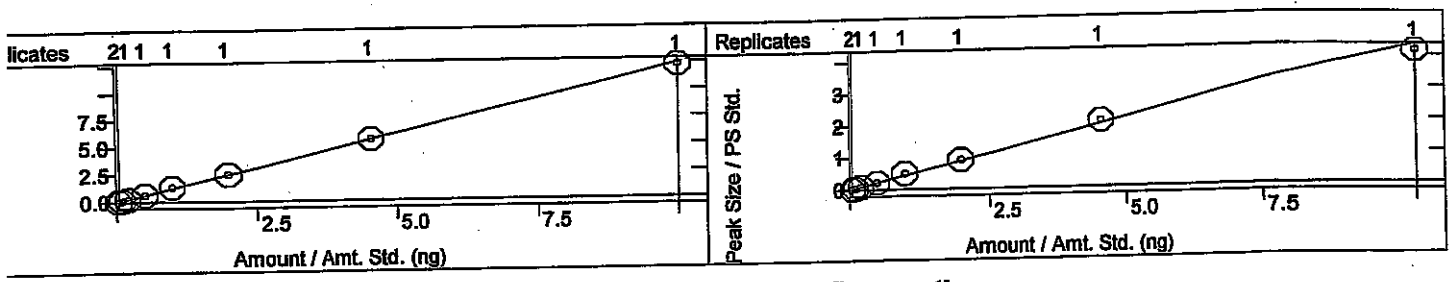
·1,2-DCE
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



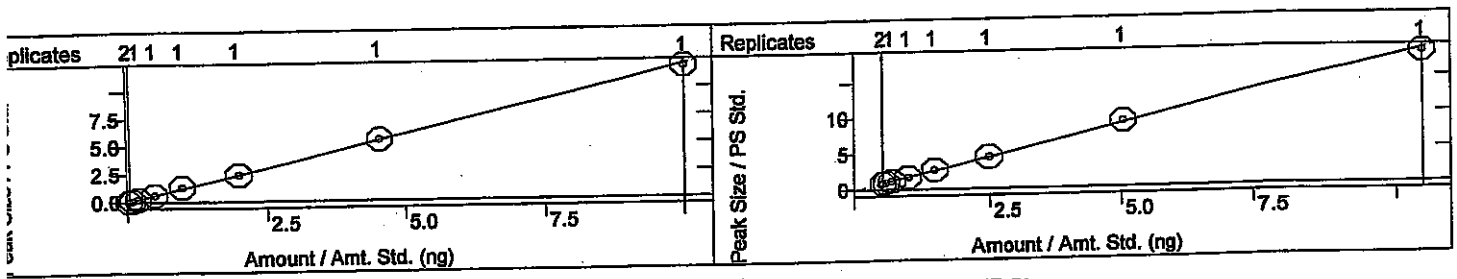
ıloroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
: +1.2389x -0.0082

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



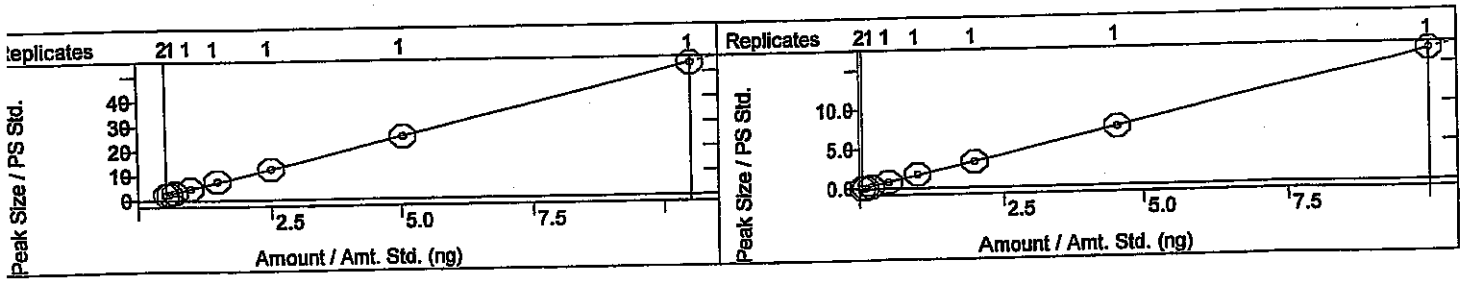
richloroethene (TCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034

Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



l,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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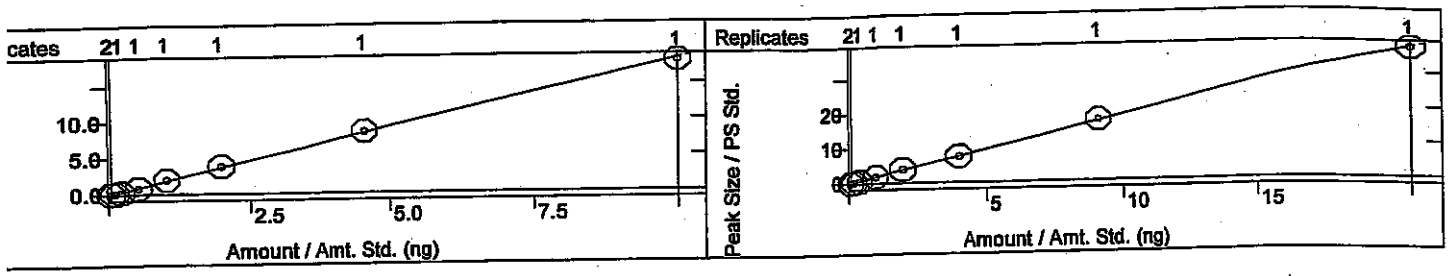
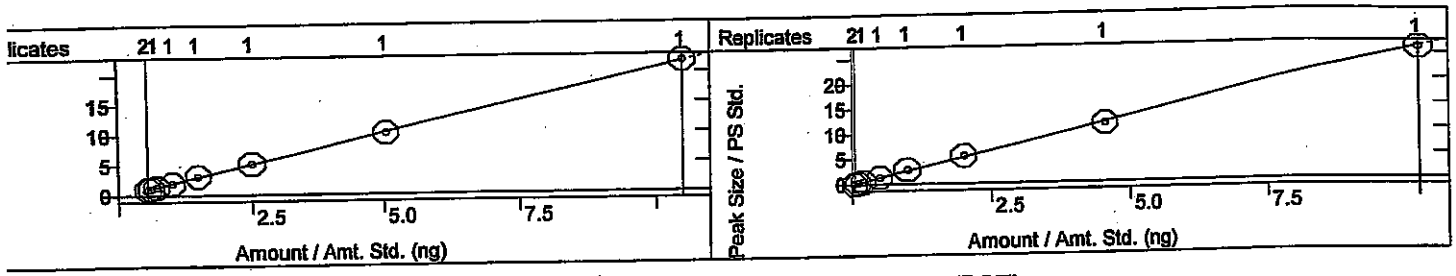
·Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



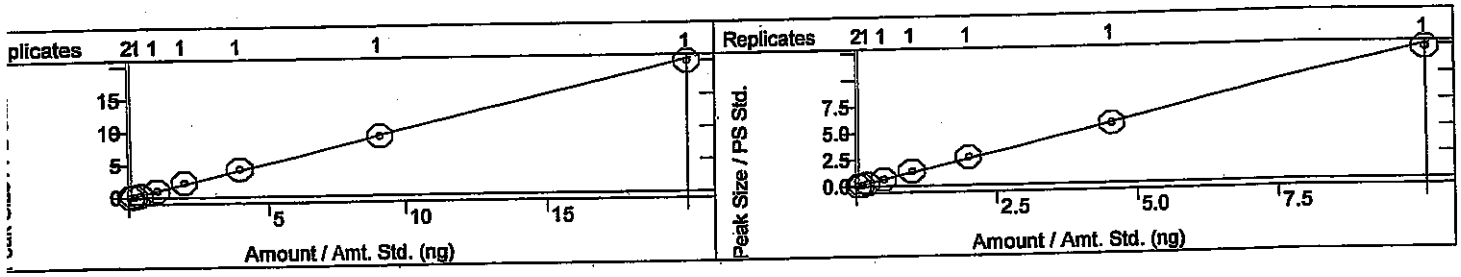
luene-d8
irve Fit: Linear, Origin: Ignore, Weight: 1/X
isp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
= +2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



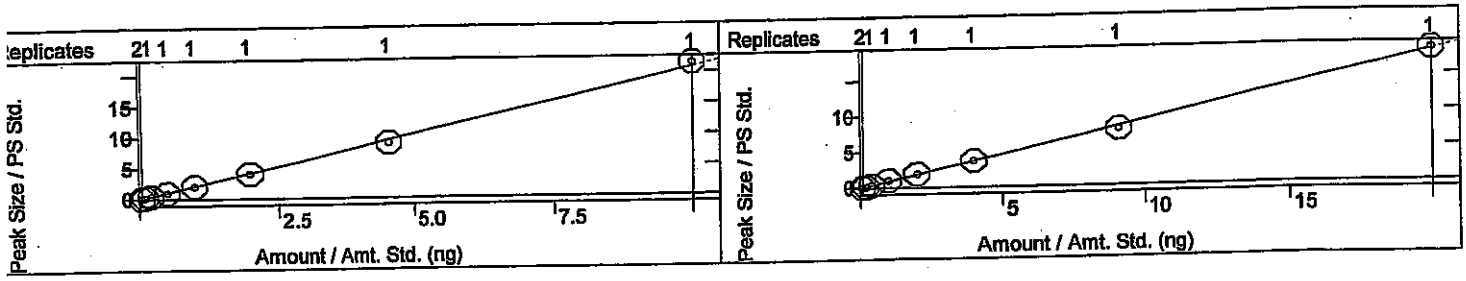
·Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



:is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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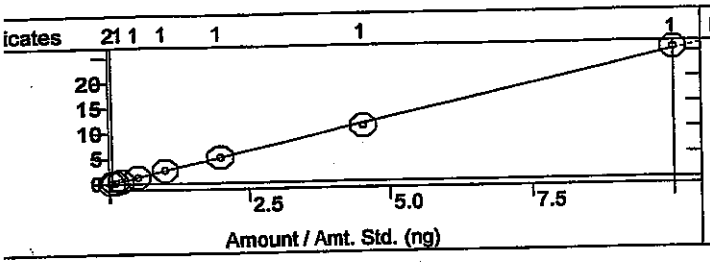
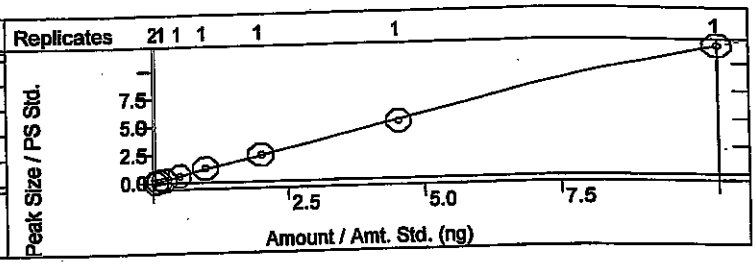
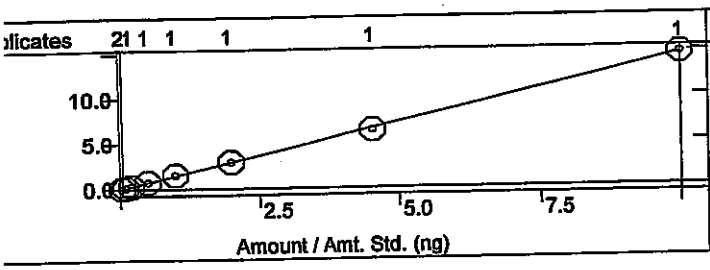
omodichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289



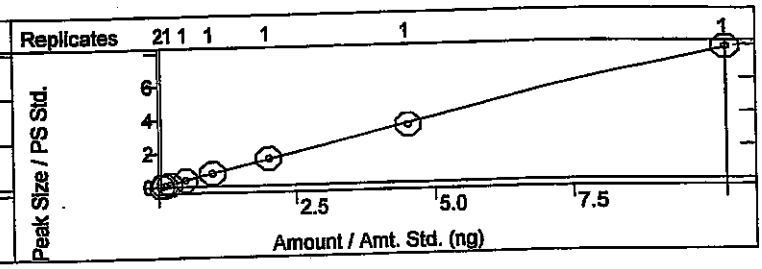
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



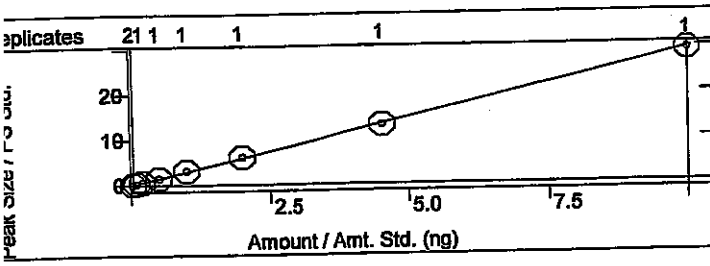
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4



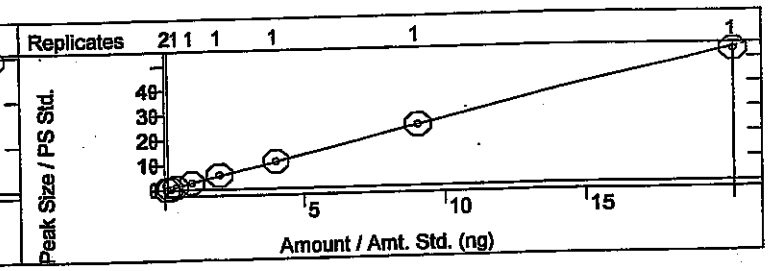
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



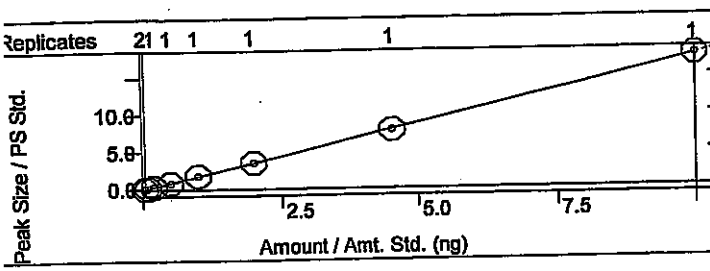
thylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092



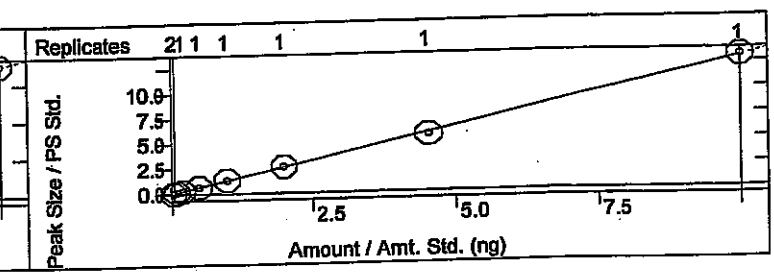
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268



Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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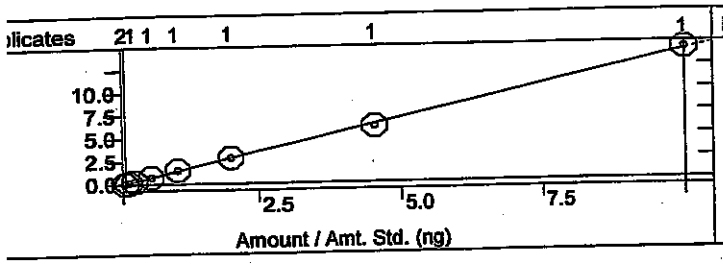
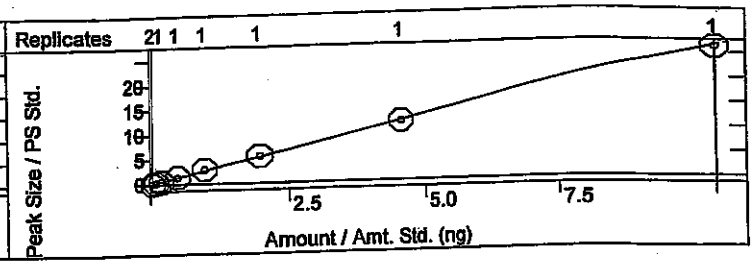
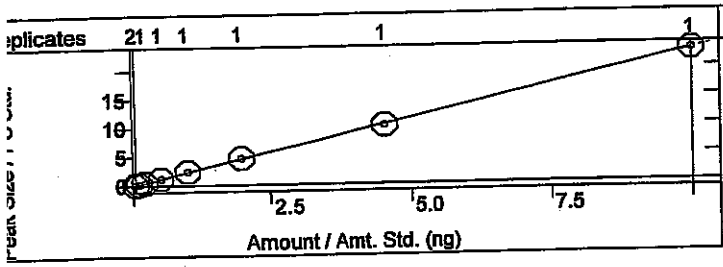
2-Dibromoethane (EDB)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



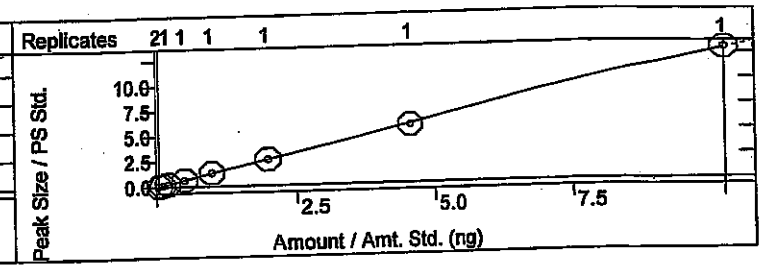
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



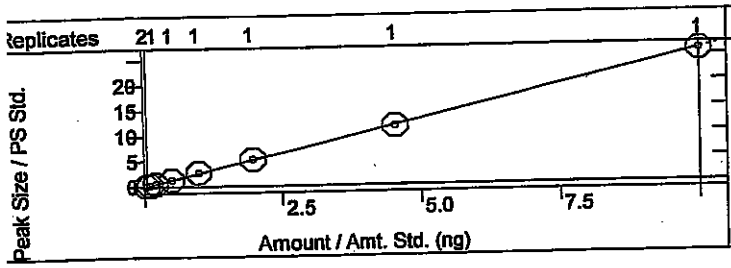
,1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016



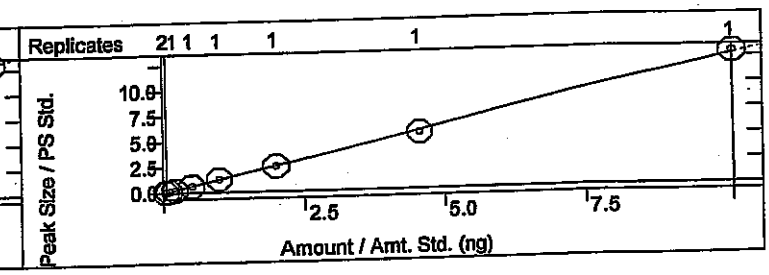
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



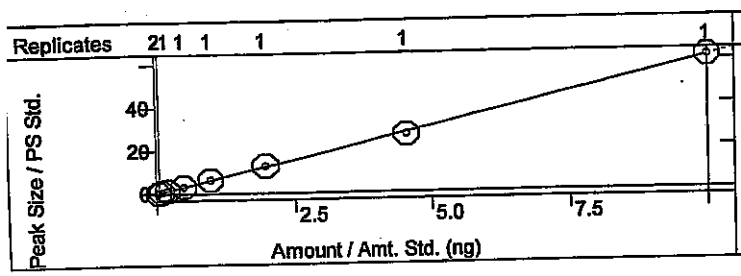
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035



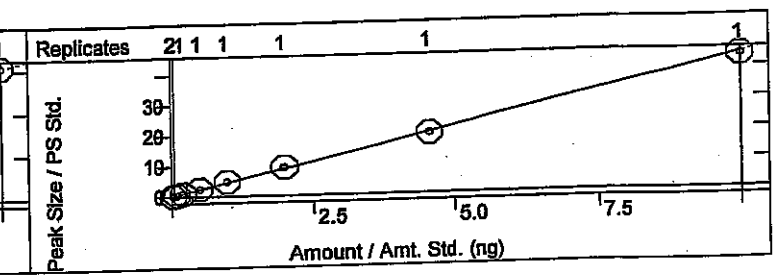
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



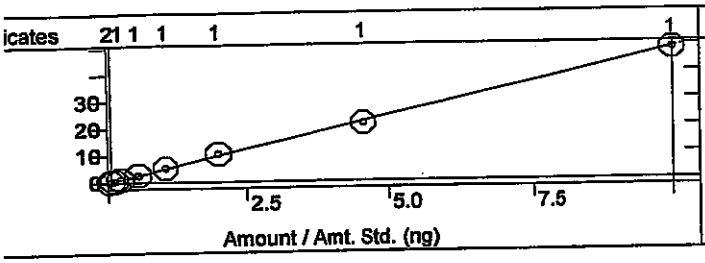
1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332



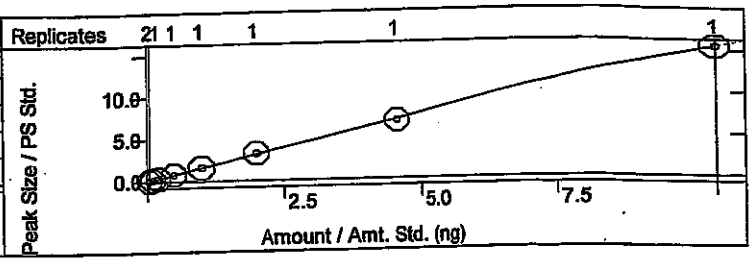
hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

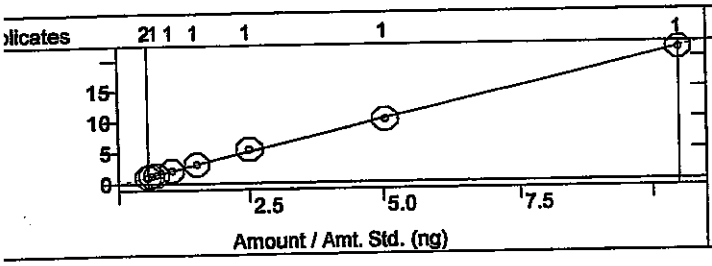
t-Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500



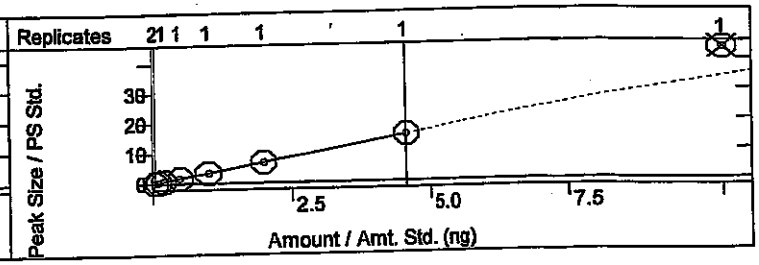
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



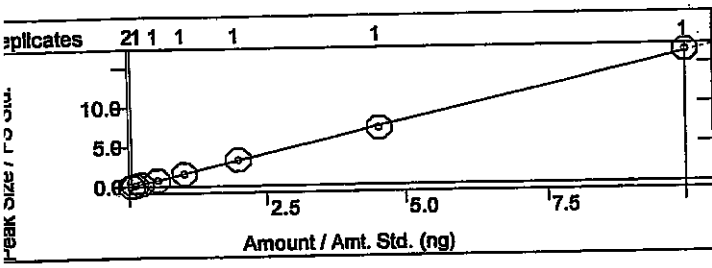
Bromofluorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066



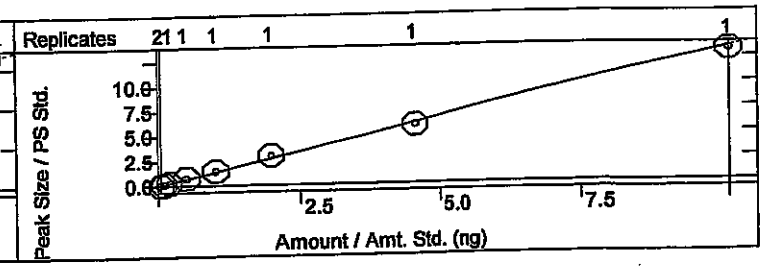
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



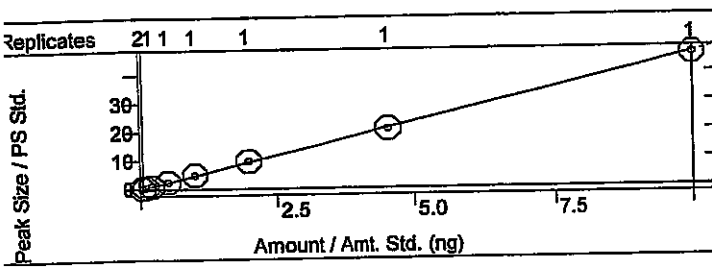
-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125



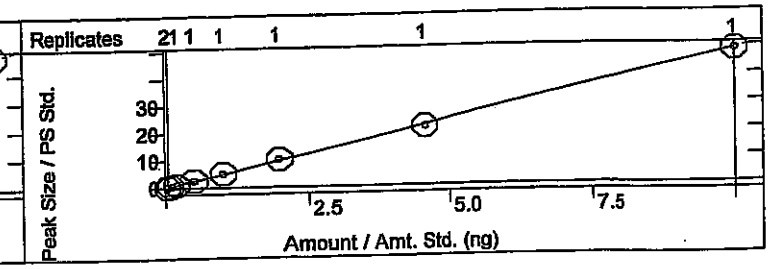
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107



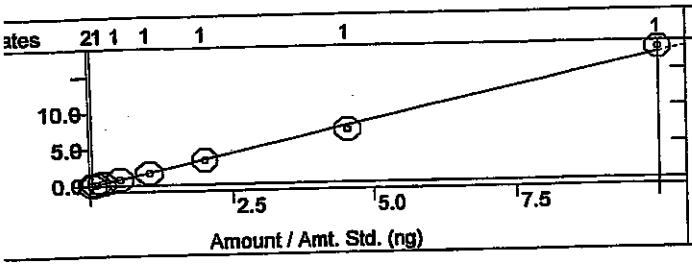
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045



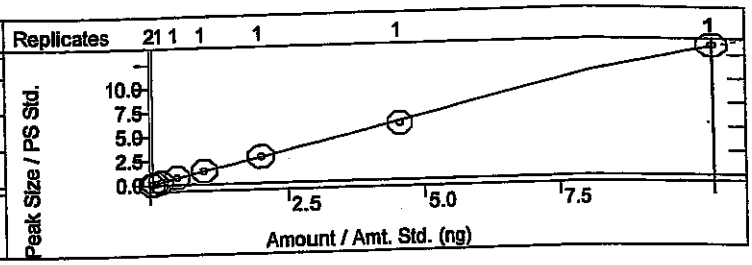
od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
le List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

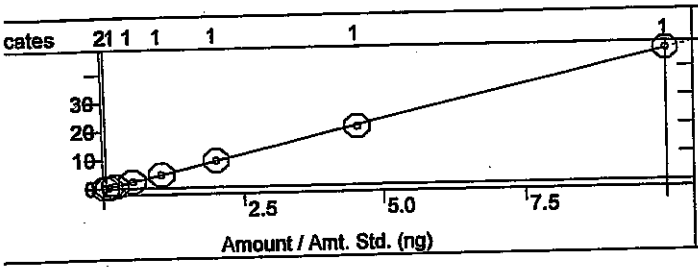
noform
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156



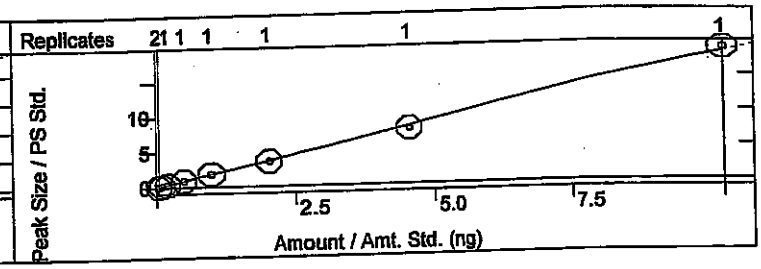
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



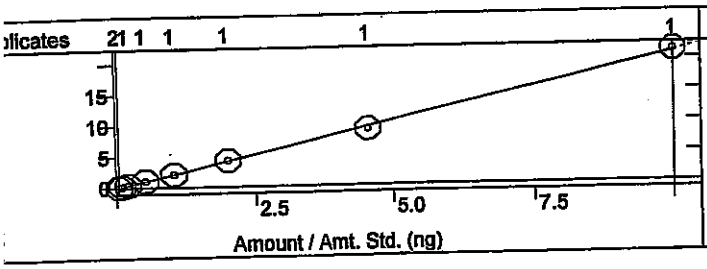
utylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548



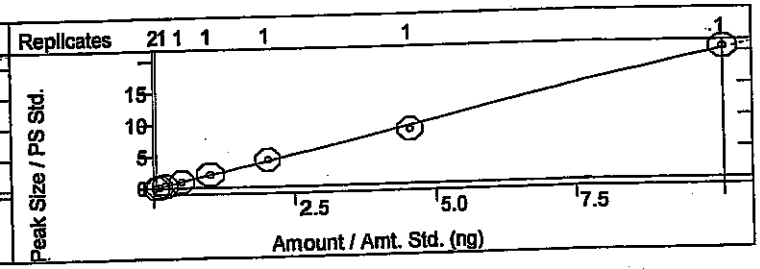
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



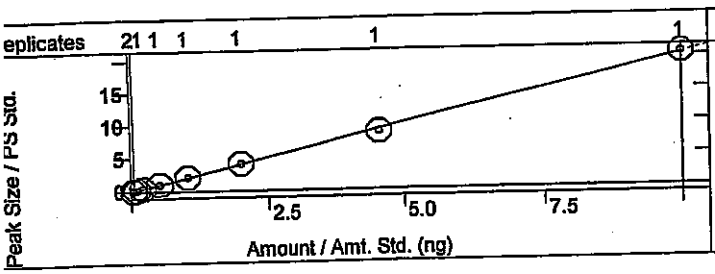
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059



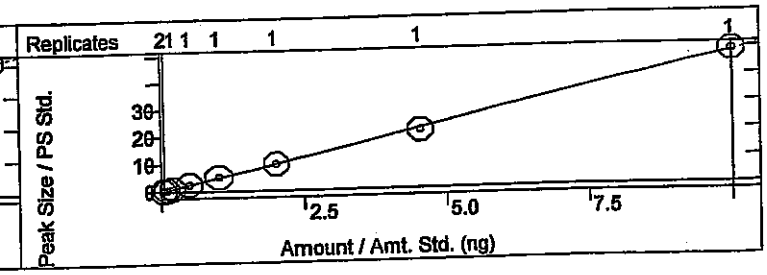
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
= +2.0262x +0.0044



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

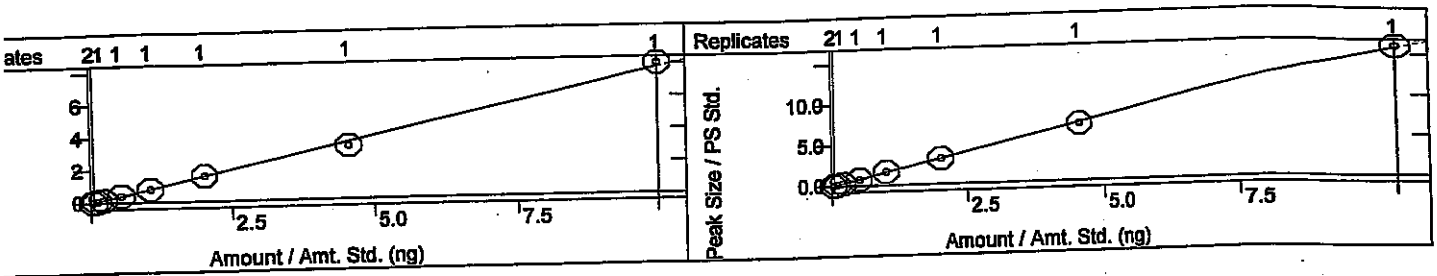


od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ole List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

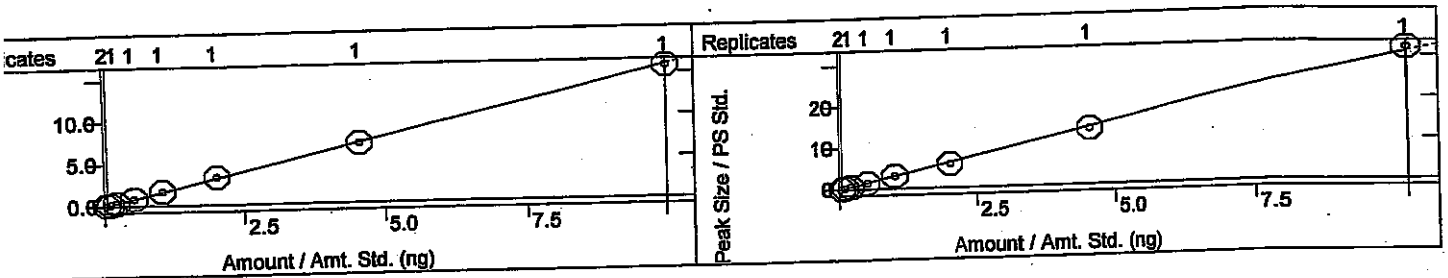
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



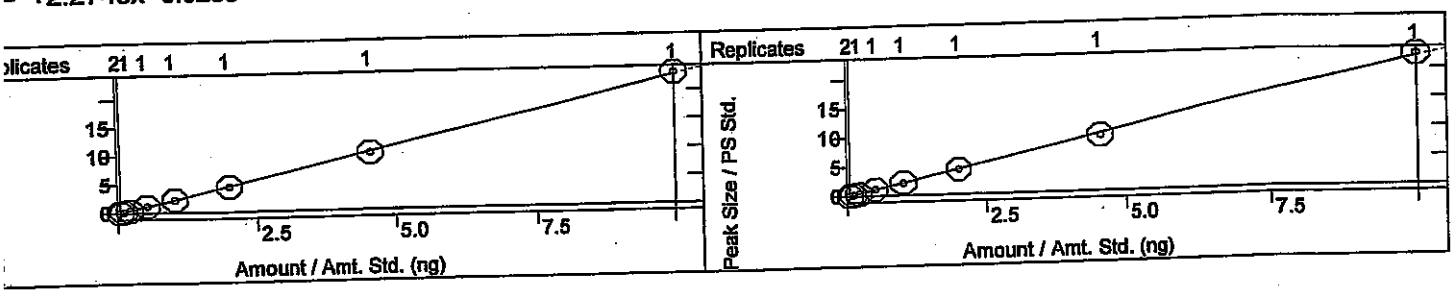
3-Trichlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



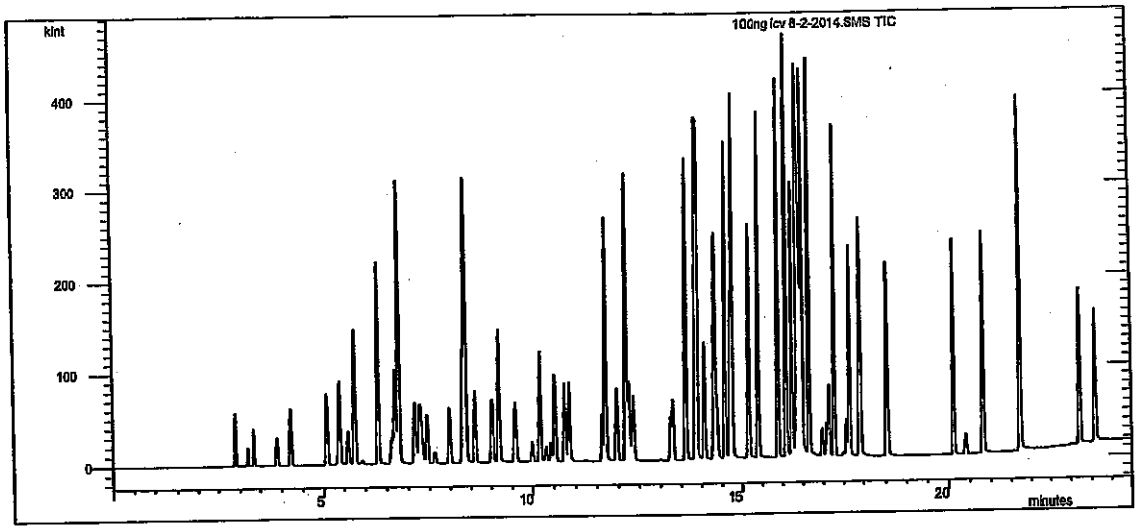
Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

an Star Workstation - Generic SampleList Sun Jul 06 15:00:06 2014

leList: C:\VarianWS\070614v.smp

ated: Sun Jul 06 15:00:06 2014
ified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL: 500ng

Analyst: 7-7-14

QA: NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: ___ and ___.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7/7/14

DB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

IS1 = Benzene-d5-, chloro- ☐

IS2 = BFB ☑

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RAA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

SJB 7/8/14

2.5ug gro crv 7-6-2014.SMS

7/7/2014 9:37

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

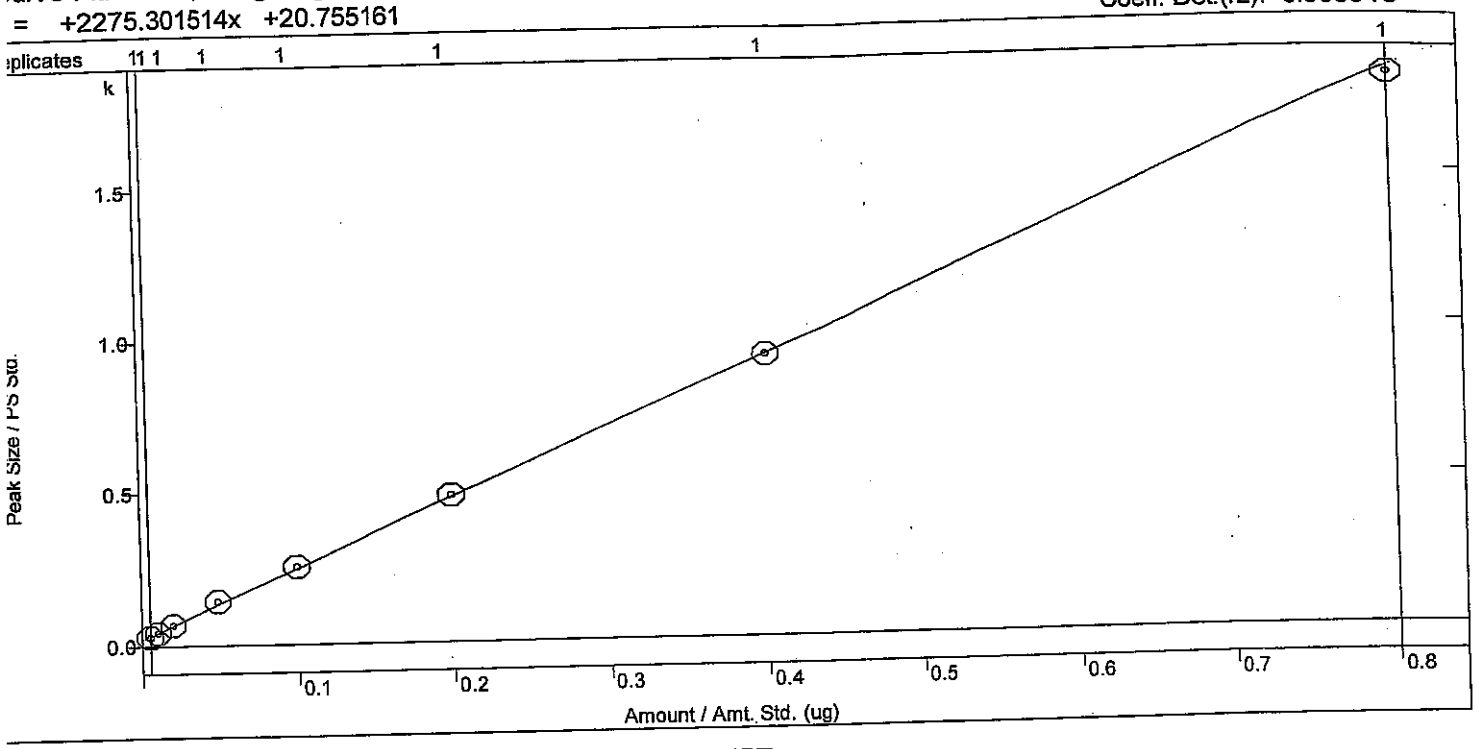
alibration Curves Report

ethod:	c:\varianws\methods\070614v gro.mth		
ecalc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ample List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

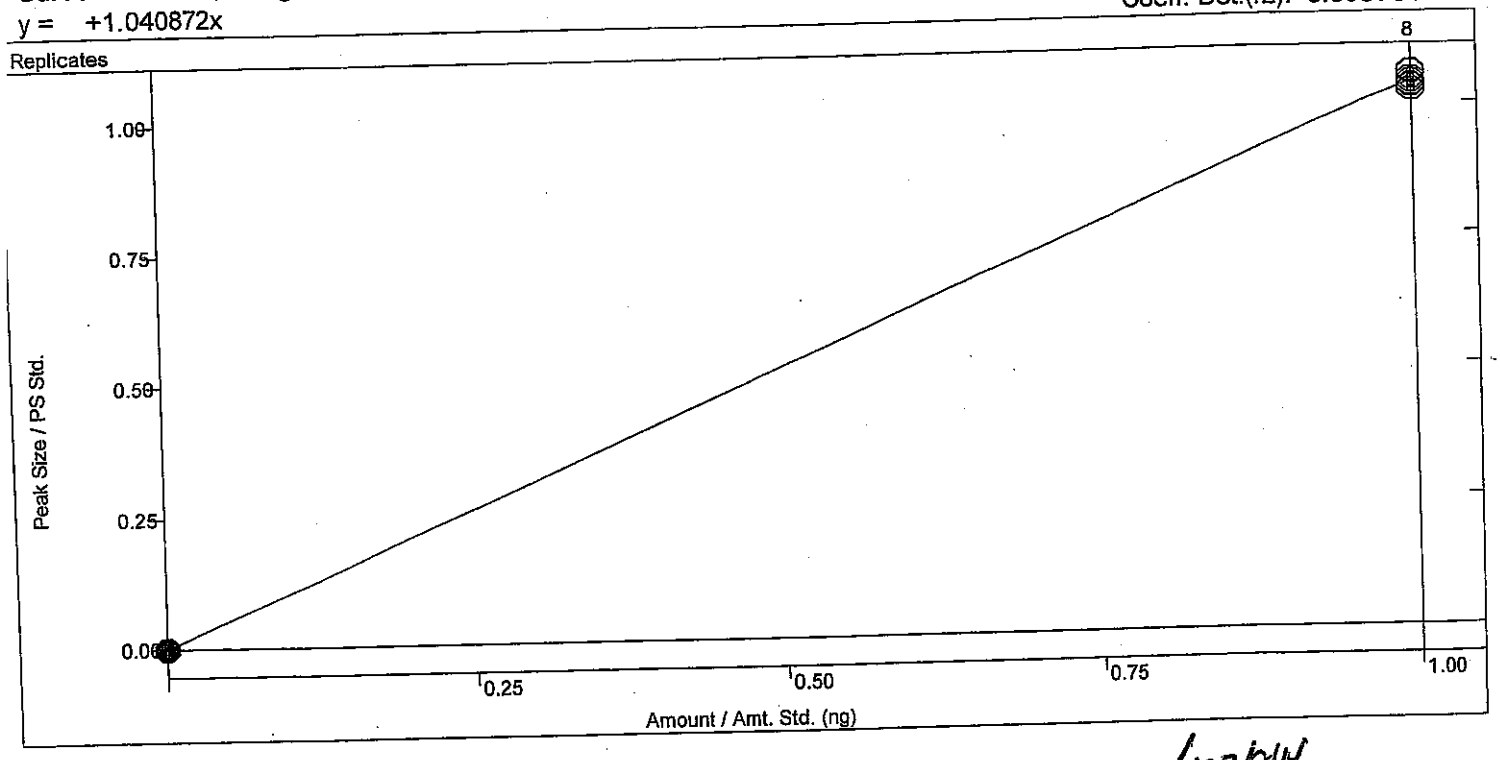
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



7/8/14

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eric SampleList Printout - Wed Aug 20 13:45:34 2014

pleList: C:\AgilentWS\082014m.smp

ated: Wed Aug 20 08:51:48 2014
ified: Wed Aug 20 13:44:57 2014

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Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0049	
2	b2	none
3	b3	none
4	mb-14860	none @11:03
5	10ppb 5035 crv	below @11:31
	Notes V-54-0464	
6	lcs-14860	below
	Notes V-11-8066	
7	b4	none
8	1408893-001a	below
	Notes x1 low level soil pb14860	
9	1408893-001ams	below
	Notes x1 low level soil pb14860 V-11-8066	
10	1408893-001amsd	below
	Notes x1 low level soil pb14860 V-11-8066	
11	1408893-002a	below
	Notes x1 low level soil pb14860	
12	1408893-003a	below
	Notes x1 low level soil pb14860	
13	1408994-001a	below
	Notes x1 low level soil pb14860 @3:21	
14	b5	none
15	b6	none
16		

Loaded By: 8-20-14
1st Review By: 8-21-14
QA'd By: JNB 8/21/14

rectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\082014m.rcl.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 8/20/2014 Time: 11:31

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/19/2014 8/19/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:38 20:38

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.S

Lab File ID: c:\agilentws\data\10ppb 5035 crv 8-20-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.532	0.100	10.00	10.36	-3.6	30.0	PASS	PASS
Chloromethane	9.387	0.100	10.00	9.94	0.6	30.0	PASS	PASS
Vinyl chloride	11.037	0.100	10.00	10.72	-7.2	20.0	PASS	PASS
Chloroethane	2.333	0.100	10.00	11.32	-13.2	30.0	PASS	PASS
Bromomethane	2.164	0.100	10.00	9.89	1.1	30.0	PASS	PASS
Trichlorofluoromethane	2.627	0.100	10.00	9.34	6.6	30.0	PASS	PASS
1,1-Dichloroethene	6.991	0.100	10.00	10.15	-1.5	20.0	PASS	PASS
Acetone	2.578	0.100	20.00	15.80	21.0	40.0	PASS	PASS
Carbon disulfide	5.874	0.100	20.00	22.04	-10.2	40.0	PASS	PASS
Iodomethane	4.362	0.100	20.00	17.98	10.1	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.202	0.100	20.00	18.92	5.4	30.0	PASS	PASS
Isopropyl ether	35.336	0.100	20.00	22.27	-11.3	40.0	PASS	PASS
tert-Butyl alcohol	0.126	0.100	200.00	47.01	76.5	40.0	FAIL	PASS
trans-1,2-DCE	14.298	0.100	10.00	10.61	-6.1	30.0	PASS	PASS
tert-Butyl ethyl ether	116.305	0.100	20.00	19.90	0.5	40.0	PASS	PASS
Methylene Chloride	9.077	0.100	10.00	9.30	7.0	30.0	PASS	PASS
1,1-Dichloroethane	5.257	0.100	10.00	9.49	5.1	30.0	PASS	PASS
Vinyl acetate	16.800	0.100	20.00	22.73	-13.6	40.0	PASS	PASS
2,2-Dichloropropane	1.997	0.100	10.00	10.86	-8.6	30.0	PASS	PASS
2-Butanone	6.806	0.100	20.00	22.25	-11.2	40.0	PASS	PASS
1,1,1-Trichloroethane	4.865	0.100	10.00	9.77	2.3	30.0	PASS	PASS
1,1-Dichloropropene	6.844	0.100	10.00	10.31	-3.1	30.0	PASS	PASS
tert-Amyl methyl ether	32.962	0.100	20.00	23.47	-17.3	40.0	PASS	PASS
Carbon Tetrachloride	2.220	0.100	10.00	9.93	0.7	30.0	PASS	PASS
cis-1,2-DCE	2.680	0.100	10.00	9.94	0.6	30.0	PASS	PASS
Benzene	9.950	0.100	10.00	10.03	-0.3	30.0	PASS	PASS
Chloroform	5.030	0.100	10.00	9.52	4.8	20.0	PASS	PASS
Bromochloromethane	3.733	0.100	10.00	11.24	-12.4	30.0	PASS	PASS
Trichloroethene (TCE)	14.787	0.100	10.00	9.71	2.9	30.0	PASS	PASS
Dibromofluoromethane	2.969	0.100	20.00	20.42	-2.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	11.838	0.100	20.00	19.80	1.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	67.708	0.100	10.00	10.47	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	20.915	0.100	10.00	10.31	-3.1	20.0	PASS	PASS
4-Methyl-2-pentanone	4.532	0.100	20.00	20.66	-3.3	40.0	PASS	PASS
Toluene-d8	1.855	0.100	20.00	19.65	1.7	30.0	PASS	PASS

8/21-14

8/21/14

Analyst: cadg

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
Toluene	10.399	0.100	10.00	10.01	-0.1	20.0	PASS	PASS
2-Chloroethyl vinyl ether	6.242	0.100	20.00	25.13	-25.7	40.0	PASS	PASS
cis-1,3-dichloropropene	16.235	0.100	10.00	9.42	5.8	30.0	PASS	PASS
Bromodichloromethane	3.033	0.100	10.00	9.54	4.6	30.0	PASS	PASS
2-Hexanone	12.155	0.100	20.00	19.57	2.1	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.854	0.100	10.00	10.20	-2.0	30.0	PASS	PASS
Dibromomethane	5.405	0.100	10.00	12.45	-24.5	30.0	PASS	PASS
1,3-Dichloropropane	5.831	0.100	10.00	9.85	1.5	30.0	PASS	PASS
trans-1,3-dichloropropene	3.010	0.100	10.00	10.09	-0.9	30.0	PASS	PASS
Ethylbenzene	12.077	0.100	10.00	10.22	-2.2	20.0	PASS	PASS
mp-Xylenes	10.714	0.100	20.00	20.55	-2.7	30.0	PASS	PASS
1,1,2-Trichloroethane	6.610	0.100	10.00	11.16	-11.6	30.0	PASS	PASS
Chlorobenzene	5.571	0.300	10.00	10.33	-3.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.714	0.100	10.00	10.06	-0.6	30.0	PASS	PASS
o-Xylene	11.224	0.100	10.00	10.08	-0.8	30.0	PASS	PASS
Dibromochloromethane	1.521	0.100	10.00	10.57	-5.7	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.512	0.100	10.00	10.38	-3.8	30.0	PASS	PASS
Isopropylbenzene	10.676	0.100	10.00	10.36	-3.6	30.0	PASS	PASS
Styrene	5.349	0.100	10.00	9.69	3.1	30.0	PASS	PASS
n-Propylbenzene	33.730	0.100	10.00	9.69	3.1	30.0	PASS	PASS
1,3,5-Trimethylbenzene	24.661	0.100	10.00	9.69	3.1	30.0	PASS	PASS
tert-Butylbenzene	28.204	0.100	10.00	9.73	2.7	30.0	PASS	PASS
2-Chlorotoluene	8.702	0.100	10.00	9.96	0.4	30.0	PASS	PASS
4-Bromofluorobenzene	2.386	0.100	20.00	19.40	3.0	30.0	PASS	PASS
Bromobenzene	41.074	0.100	10.00	11.19	-11.9	30.0	PASS	PASS
4-Chlorotoluene	61.254	0.100	10.00	11.77	-17.7	30.0	PASS	PASS
sec-Butylbenzene	33.875	0.100	10.00	9.04	9.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	79.713	0.100	10.00	9.64	3.6	30.0	PASS	PASS
4-Isopropyltoluene	27.122	0.100	10.00	10.02	-0.2	30.0	PASS	PASS
Bromoform	8.872	0.100	10.00	9.47	5.3	30.0	PASS	PASS
1,2,3-Trichloropropane	10.122	0.100	10.00	9.12	8.8	30.0	PASS	PASS
n-Butylbenzene	45.486	0.100	10.00	9.96	0.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	35.558	0.300	10.00	9.36	6.4	30.0	PASS	PASS
1,3-Dichlorobenzene	11.382	0.100	10.00	10.00	0.0	30.0	PASS	PASS
1,4-Dichlorobenzene	10.588	0.100	10.00	9.70	3.0	30.0	PASS	PASS
1,2-Dichlorobenzene	10.674	0.100	10.00	9.27	7.3	30.0	PASS	PASS
Hexachlorobutadiene	25.862	0.100	10.00	9.80	2.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	7.580	0.100	10.00	9.14	8.6	30.0	PASS	PASS
1,2,4-Trichlorobenzene	30.267	0.100	10.00	9.50	5.0	30.0	PASS	PASS
Naphthalene	8.478	0.100	10.00	7.87	21.3	30.0	PASS	PASS
1,2,3-Trichlorobenzene	25.314	0.100	10.00	10.01	-0.1	30.0	PASS	PASS
2-Methylnaphthalene	12.644	0.100	10.00	8.14	18.6	40.0	PASS	PASS
1-Methylnaphthalene	17.166	0.100	10.00	8.04	19.6	40.0	PASS	PASS

8-21-14

8/21/14

Analyst: cadg

neric SampleList Printout - Tue Aug 19 15:53:10 2014

mpleList: C:\AgilentWS\081914m.smp

eated: Tue Aug 19 08:27:27 2014
dified: Tue Aug 19 15:50:38 2014

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Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0049	
2	5mL rb	none run @ 9:35
3	50ng ccv	below @ 10:04
	Notes V-54-0463	
4	100ng lcs	below
	Notes V-11-8065	
5	vcb	none
6	1408737-006a	below
	Notes r5-1mL	
7	b2	none
8	1408737-007a	below
	Notes r1-5mL possible carryover	
9		
10	b3	none
11	rt check	none
12	b4	none
13	mdl check	none
14	b5	none
15	b6	none
16	b7	none run @ 3:50
17		
18		
19	0.4ppb 5035 crv	below
	Notes V-54-0464	
20	1ppb 5035 crv	below
	Notes V-54-0464	
21	2ppb 5035 crv	below
	Notes V-54-0464	
22	3ppb 5035 crv	below
	Notes V-54-0464	
23	5ppb 5035 crv	below
	Notes V-54-0464	
24	10ppb 5035 crv	below
	Notes V-54-0464	
25	20ppb 5035 crv	below
	Notes V-54-0464	
26	50ppb 5035 crv	below
	Notes V-54-0464	
27	b8	none
28	100ppb 5035 crv	below
	Notes V-54-0464	
29	b9	none
30	b10	none
31	10ppb 5035 icv	below
	Notes V-54-0465	
32	b11	none
33	b12	none @ 11:01
34		

hand calc

Loaded By: 8-19-14
1st Review By: 8-20-14
QA'd By: 8.20.14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\081914m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 8-19-14

Calibration Name: 081914Hm (8260-5035 Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☑	☐	☑	re-run on a different instrument
Chloromethane	☐	☐	☑	☐	UCL= 50ppb
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☐	☐	
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UCL= 40ppb
Isopropyl ether	☐	☐	☑	☑	0.4ppb point missing PQL= 1ppb
tert-Butyl alcohol	☐	☑	☐	☐	not recovered
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UCL= 40ppb
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☑	☐	missing 0.4ppb point PQL=1ppb, UCL=50
2-Butanone	☐	☐	☒	☑	missing 0.4ppb PQL= 2ppb
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☒	☑	missing 0.4ppb PQL=1ppb
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	UQL = 20 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	missing 0.1 ppb point PQL = 1 ppb
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☑	☑	~~UQL~~ cg 8.20.14
Naphthalene	☐	☐	☐	☐	UQL = 50 ppb
1,2,3-Trichlorobenzene	☐	☐	☐	☐	UQL = 50 ppb
2-Methylnaphthalene	☐	☐	☐	☐	UQL = 50 ppb
1-Methylnaphthalene	☐	☐	☐	☐	UQL = 50 ppb

Analyst: cg 8.20.14

QA: M 8.20.14

Additional Comments: RTs updated & verified

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 4\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 8/19/2014 Time Analyzed: 18:43

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	49692	7.14	70557	13.45	27910	17.03						
UPPER LIMIT	99384	7.64	141114	13.95	55820	17.53						
LOWER LIMIT	24846	6.64	35279	12.95	13955	16.53						
EPA SAMPLE NO												
b7 8-19-20	45283	7.14	66077	13.45	24961	17.03						
0.4ppb 503	50697	7.14	71742	13.45	28061	17.03						
1ppb 5035	46172	7.14	65622	13.45	24119	17.03						
2ppb 5035	45318	7.14	67275	13.45	25881	17.03						
3ppb 5035	43106	7.14	61038	13.45	23443	17.03						
5ppb 5035	48846	7.14	69691	13.45	27232	17.03						
20ppb 5035	50228	7.14	74906	13.45	27582	17.03						
50ppb 5035	46582	7.14	66623	13.45	26273	17.03						
b8 8-19-20	50052	7.14	72301	13.45	27451	17.03						
100ppb 503	47545	7.14	62375 D	13.45 D	24106 D	17.03 D						
b9 8-19-20	55107	7.14	78682	13.45	29243	17.03						
b10 8-19-2	51077	7.14	73382	13.45	27108	17.03						
10ppb 5035	50248	7.14	73822	13.45	28104	17.03						
b11 8-19-2	46763	7.14	67014	13.45	26248	17.03						
b12 8-19-2	50543	7.14	69796	13.45	25035	17.03						

SOP, methods area & RT limits

8-20-14

8-20-14

8/20/2014 8:46 Page 1 of 2 Internal Standard And RT Summary

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 8-19-2014.sms Injection Date: 8/19/2014

Instrument ID: Mercury Injection Time: 15:50

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	26.1	
75	30-60% of m/z 95	54.9	
95	base peak	100.0	
96	5-9% of m/z 95	6.6	
173	<2% of m/z 174	0.0 (0.0)	174
174	>50% of m/z 95	68.2	
175	5-9% of m/z 174	5.8 (8.5)	174
176	>95% but <101% of m/z 174	65.9 (96.7)	174
177	5-9% of m/z 176	4.4 (6.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b7 8-19-20	b7	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b7 8-19-2014.SMS	8/19/2014 15:50
4 0.4ppb 503	0.4ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\0.4ppb 5035 crv 8-19-2014.SMS	8/19/2014 16:19
5 1ppb 5035	1ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\1ppb 5035 crv 8-19-2014.SMS	8/19/2014 16:48
6 2ppb 5035	2ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\2ppb 5035 crv 8-19-2014.SMS	8/19/2014 17:17
7 3ppb 5035	3ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\3ppb 5035 crv 8-19-2014.SMS	8/19/2014 17:46
8 5ppb 5035	5ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\5ppb 5035 crv 8-19-2014.SMS	8/19/2014 18:14
9 10ppb 5035	10ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\10ppb 5035 crv 8-19-2014.SMS	8/19/2014 18:43
10 20ppb 5035	20ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\20ppb 5035 crv 8-19-2014.SMS	8/19/2014 19:12
11 50ppb 5035	50ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\50ppb 5035 crv 8-19-2014.SMS	8/19/2014 19:41

Analyst: cadg

8-20-14 cag 8-20-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 b8 8-19-20	b8	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b8 8-19-2014.SMS	8/19/2014 20:09
13 100ppb 503	100ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\100ppb 5035 crv 8-19-2014.SMS	8/19/2014 20:38
14 b9 8-19-20	b9	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b9 8-19-2014.SMS	8/19/2014 21:07
15 b10 8-19-2	b10	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b10 8-19-2014.SMS	8/19/2014 21:35
16 10ppb 5035	10ppb 5035 icv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\10ppb 5035 icv 8-19-2014.SMS	8/19/2014 22:04
17 b11 8-19-2	b11	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b11 8-19-2014.SMS	8/19/2014 22:33
18 b12 8-19-2	b12	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b12 8-19-2014.SMS	8/19/2014 23:01

cgg 8-20-14

J h 8-20-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 8/19/2014 8/19/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:38 20:38

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	1.963	1.978	1.764	1.863	1.748	1.659	1.596	1.420	0.9991	1.708	12.6	PASS	PASS
1.378													
Chloromethane	8.174	7.145	6.511	7.434	8.325	8.449	9.533	10.066	0.9991	8.204	14.5	PASS	PASS
Vinyl chloride	8.366	8.571	8.907	10.610	11.000	10.934	10.974	9.537	0.9988	9.887	10.8	PASS	PASS
10.080													
Chloroethane	1.506	1.426	1.422	1.534	2.153	2.045	2.285	2.017	0.9991	1.833	19.2	PASS	PASS
2.113													

Analyst: cadg

cadg 8-20-14 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC	RRF9
Bromomethane	1.742	1.108	0.939	0.984	1.116	1.509	2.449	3.458	0.9993	1.966	62.5	PASS	PASS	4.393
Trichlorofluoromethane	2.795	3.164	2.936	2.971	2.876	2.807	2.905	2.746	0.9999	2.888	4.4	PASS	PASS	2.793
1,1-Dichloroethene	7.454	7.215	7.209	7.445	7.441	7.164	7.113	6.414	0.9986	7.155	4.6	PASS	PASS	6.937
Acetone	8.006	4.589	3.862	3.586	2.846	2.638	3.109	3.154	0.9996	3.882	42.6	PASS	PASS	3.144
Carbon disulfide	5.991	6.226	5.992	6.137	5.884	5.794	5.909	5.488	0.9966	5.815	6.8	PASS	PASS	4.917
Iodomethane	2.000	1.437	1.808	2.532	3.249	4.143	5.988	6.289	0.9995	3.882	57.1	PASS	PASS	7.490
Methyl tert-butyl ether (MTBE)	7.411	7.986	7.858	7.602	7.656	7.347	7.020	4.820	0.9998	7.212	14.0	PASS	PASS	
Isopropyl ether		37.296	37.857	35.211	36.838	36.128	35.417	30.669	0.9981	34.809	9.2	PASS	PASS	29.058
tert-Butyl alcohol	1.807	1.688	0.080	0.079	0.132	0.122	0.763	0.413	0.7649	0.589	117.6	FAIL	PASS	0.216
trans-1,2-DCE	14.019	13.755	14.013	13.975	14.042	13.932	13.779	12.521	0.9982	13.752	3.5	PASS	PASS	13.730
tert-Butyl ethyl ether	122.356	124.019	129.388	120.537	123.145	119.195	113.089		0.9991	121.676	4.1	PASS	PASS	
Methylene Chloride	56.379	25.848	18.436	14.543	12.178	10.068	9.054	7.537	0.9985	17.994	86.4	PASS	PASS	7.906
1,1-Dichloroethane	3.641	3.878	4.070	4.407	4.921	5.239	6.047	6.208	0.9999	5.027	22.6	PASS	PASS	6.830

not calibrate

Analyst: cadg

cg 8-20-14 8-20-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Vinyl acetate 16.001	0.343	1.091	3.859	6.572	9.298	12.494	16.579	15.989	0.9993	9.136	71.1	PASS	PASS
2,2-Dichloropropane		2.306	2.275	2.241	2.290	1.702	1.656	1.011	0.9975	1.926	25.6	PASS	PASS
2-Butanone 5.723		3.950	7.149	8.207	6.826	6.532	6.905	6.029	0.9982	6.415	19.4	PASS	PASS
1,1,1-Trichloroethane 5.018	4.988	5.092	4.798	5.141	5.169	4.978	5.219	4.772	0.9993	5.020	3.1	PASS	PASS
1,1-Dichloropropene 6.635	7.018	7.124	7.043	7.127	7.023	6.869	6.781	6.336	0.9995	6.884	3.8	PASS	PASS
tert-Amyl methyl ether 25.701	31.730	30.351	32.700	30.739	32.422	32.378	33.816	27.952	0.9956	30.865	8.3	PASS	PASS
Carbon Tetrachloride 2.195	2.199	2.306	2.353	2.355	2.388	2.391	2.451	2.140	0.9992	2.309	4.6	PASS	PASS
cis-1,2-DCE 2.756	2.468	2.802	2.631	2.758	2.773	2.749	2.735	2.547	0.9987	2.691	4.3	PASS	PASS
Benzene 10.178	10.339	9.594	9.817	9.622	10.294	10.333	10.081	9.240	0.9981	9.944	4.0	PASS	PASS
Chloroform 5.491	4.627	4.871	5.053	5.044	5.074	5.240	5.415	4.980	0.9981	5.088	5.2	PASS	PASS
Bromochloromethane 3.207	3.897	3.939	4.268	4.280	4.178	3.639	3.365	3.106	0.9994	3.764	12.1	PASS	PASS
Trichloroethene (TCE) 15.407	16.870	16.136	15.399	16.071	15.769	15.401	15.736	14.283	0.9987	15.675	4.5	PASS	PASS
Dibromofluoromethane 2.923	2.576	2.665	2.802	2.754	3.141	3.016	3.153	3.145	0.9517	2.908	7.6	PASS	PASS

Analyst: cadg

cadg 8-20-14 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,2-Dichloroethane-d4	11.749	11.929	12.480	11.896	12.303	12.019	11.972	11.671	0.9951	11.960	2.4	PASS	PASS
11.621													
1,2-Dichloroethane (EDC)	64.962	65.907	71.633	67.538	69.940	69.240	69.256	60.542	0.9988	67.034	5.1	PASS	PASS
64.288													
1,2-Dichloropropane	22.762	20.765	21.791	21.807	21.946	21.313	21.211	19.162	0.9992	21.216	5.0	PASS	PASS
20.186													
4-Methyl-2-pentanone	4.163	4.250	4.361	4.633	4.624	4.488	4.439	4.149	0.9972	4.421	4.6	PASS	PASS
4.679													
Toluene-d8	1.837	1.848	1.842	1.829	1.971	1.857	1.797	1.896	0.9770	1.888	5.1	PASS	PASS
2.110													
Toluene	10.915	10.634	10.092	10.902	11.028	10.271	10.242	9.380	0.9958	10.482	5.1	PASS	PASS
10.871													
2-Chloroethyl vinyl ether	1.766	3.694	3.622	3.971	4.794	5.475	5.655	4.318	0.9972	4.143	27.9	PASS	PASS
3.991													
cis-1,3-dichloropropene	13.241	14.458	14.752	15.219	16.586	16.601	16.449	15.805	0.9946	15.764	10.1	PASS	PASS
18.763													
Bromodichloromethane	2.820	2.872	2.858	2.904	3.122	3.203	3.002	2.910	0.9952	3.011	6.5	PASS	PASS
3.411													
2-Hexanone	4.510	12.764	12.874	12.671	12.365	12.057	12.576	11.205	0.9947	11.586	23.4	PASS	PASS
13.255													
Tetrachloroethene (PCE)	3.008	2.705	2.610	2.891	2.723	2.733	2.717	2.443	0.9921	2.760	6.7	PASS	PASS
3.010													
Dibromomethane		5.232	5.274	5.462	5.602	5.105	4.945	3.963	0.9978	4.946	12.8	PASS	PASS
3.986													
1,3-Dichloropropane	5.293	5.494	5.466	5.922	6.330	5.963	6.015	5.305	0.9950	5.781	6.9	PASS	PASS
6.237													

Analyst: cadg

8-20-14

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	1.993	2.526	2.744	2.878	2.987	3.080	3.015	2.793	0.9976	2.793	12.7	PASS	PASS
3.124													
Ethylbenzene	13.077	12.099	12.185	12.979	12.196	11.728	11.581	10.922	0.9975	12.106	5.5	PASS	PASS
12.190													
mp-Xylenes	11.008	11.526	10.270	10.888	10.610	10.844	9.859	9.419	0.9955	10.596	6.1	PASS	PASS
10.937													
1,1,2-Trichloroethane	7.004	7.014	6.748	6.762	6.975	6.810	6.152	5.352	0.9977	6.519	9.1	PASS	PASS
5.850													
Chlorobenzene	5.570	5.376	5.206	5.585	5.313	5.252	5.309	4.906	0.9960	5.354	4.4	PASS	PASS
5.674													
1,2-Dibromoethane (EDB)	1.654	1.756	1.656	1.764	1.774	1.690	1.688		0.9998	1.712	3.0	PASS	PASS
o-Xylene	11.059	11.145	11.233	11.322	11.314	11.100	10.610	10.287	0.9969	11.080	3.7	PASS	PASS
11.652													
Dibromochloromethane	1.332	1.480	1.467	1.467	1.492	1.495	1.379	1.369	0.9987	1.440	4.3	PASS	PASS
1.476													
1,1,1,2-Tetrachloroethane	2.567	2.471	2.674	2.530	2.616	2.529	2.434	2.244	0.9982	2.503	4.9	PASS	PASS
2.458													
Isopropylbenzene	10.994	10.792	10.489	10.942	10.611	10.797	10.068	9.321	0.9962	10.523	5.0	PASS	PASS
10.692													
Styrene	5.140	5.372	5.411	5.397	5.304	5.278	5.125	5.097	0.9958	5.336	4.5	PASS	PASS
5.896													
n-Propylbenzene	36.998	40.859	35.087	39.151	35.254	33.827	35.147	30.839	0.9949	35.940	8.1	PASS	PASS
36.297													
1,3,5-Trimethylbenzene	26.769	28.317	25.927	27.515	25.048	24.797	25.181	22.601	0.9945	25.884	6.6	PASS	PASS
26.802													

Analyst: cadg

cg 8.20.14

8.19.2014

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
tert-Butylbenzene 30.008	30.399	33.439	30.754	32.345	29.703	28.632	29.598	25.791	0.9955	30.074	7.2	PASS	PASS
2-Chlorotoluene 9.169	9.623	9.495	9.377	9.079	8.615	8.538	8.712	7.773	0.9948	8.931	6.5	PASS	PASS
4-Bromofluorobenzene 2.888	2.347	2.498	2.416	2.372	2.443	2.367	2.432	2.370	0.9603	2.459	6.8	PASS	PASS
Bromobenzene 34.999	43.583	45.560	42.309	45.962	42.163	42.699	41.465	33.707	0.9981	41.383	10.3	PASS	PASS
4-Chlorotoluene 90.627	65.420	63.738	60.995	64.193	59.882	62.368	64.040	62.557	0.9986	65.980	14.2	PASS	PASS
sec-Butylbenzene 38.906	40.270	40.380	36.313	42.607	36.684	37.045	36.687	34.271	0.9968	38.129	6.8	PASS	PASS
1,2,4-Trimethylbenzene 87.181	84.225	90.238	85.396	89.831	82.712	78.167	82.324	73.468	0.9944	83.727	6.5	PASS	PASS
4-Isopropyltoluene 27.910	28.464	29.642	29.092	30.073	27.742	26.500	27.315	24.610	0.9968	27.928	6.0	PASS	PASS
Bromoform 9.942	7.798	8.499	8.674	9.050	8.843	9.067	9.376	8.682	0.9966	8.881	6.7	PASS	PASS
1,2,3-Trichloropropane 11.630	9.163	12.103	11.023	10.982	11.181	10.849	11.664	9.918	0.9951	10.946	8.3	PASS	PASS
n-Butylbenzene 46.864	43.046	48.684	45.537	52.111	44.230	44.781	48.064	41.931	0.9974	46.139	6.8	PASS	PASS
1,1,2,2-Tetrachloroethane 40.944		34.095	35.579	36.802	36.011	38.989	38.488	33.743	0.9929	36.831	6.8	PASS	PASS
1,3-Dichlorobenzene 12.040	11.261	11.859	11.701	11.902	11.459	11.111	11.571	9.964	0.9933	11.430	5.5	PASS	PASS

Analyst: cadg

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,4-Dichlorobenzene	10.227	11.385	10.738	11.207	10.600	10.737	10.714	9.833	0.9951	10.778	5.1	PASS	PASS
11.561													
1,2-Dichlorobenzene	11.023	11.759	11.330	11.373	11.395	10.888	11.800	10.082	0.9927	11.328	5.6	PASS	PASS
12.305													
Hexachlorobutadiene	33.119	32.677	28.992	30.505	27.770	26.121	25.591	22.411	0.9915	28.324	12.2	PASS	PASS
27.730													
1,2-Dibromo-3-chloropropane	6.009	7.269	7.403	8.370	7.528	7.974	8.384	7.691	0.9964	7.719	10.7	PASS	PASS
8.847													
1,2,4-Trichlorobenzene	23.674	27.844	29.175	31.365	28.584	28.522	30.735	28.691	0.9928	29.289	10.4	PASS	PASS
35.012													
Naphthalene	5.661	7.621	8.289	8.789	9.228	9.355	10.931	11.754	0.9985	8.954	21.1	PASS	PASS
1,2,3-Trichlorobenzene	18.198	22.704	23.474	26.508	25.170	25.107	26.919	24.851	0.9988	24.116	11.5	PASS	PASS
2-Methylnaphthalene	10.526	11.784	12.527	13.713	13.345	13.592	16.690	16.306	0.9988	13.560	15.5	PASS	PASS
1-Methylnaphthalene	13.706	16.688	16.556	18.082	17.959	19.364	22.590	22.546	0.9992	18.436	16.4	PASS	PASS
									Average %RSD		13.8		

8-20-14

cg 8-20-14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0814m\081914m 5035 crv\10ppb **Acquisition Date:** 8/19/2014 22:04

Comment: V-54-0465

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS

Cal. Sample Dates: First: 8/19/2014 20:38 **Last:** 8/19/2014 20:38

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	15.72	ppb	10.00	157 %	70 - 130	FAIL
2)	Chloromethane	9.96	ppb	10.00	100 %	70 - 130	PASS
3)	Vinyl chloride	11.42	ppb	10.00	114 %	80 - 120	PASS
4)	Chloroethane	10.62	ppb	10.00	106 %	70 - 130	PASS
5)	Bromomethane	10.01	ppb	10.00	100 %	70 - 130	PASS
6)	Trichlorofluoromethane	8.45	ppb	10.00	84 %	70 - 130	PASS
7)	1,1-Dichloroethene	8.82	ppb	10.00	88 %	80 - 140	PASS
8)	Acetone	15.05	ppb	20.00	75 %	60 - 140	PASS
9)	Carbon disulfide	18.83	ppb	20.00	94 %	60 - 140	PASS
10)	Iodomethane	15.95	ppb	20.00	80 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	17.95	ppb	20.00	90 %	70 - 130	PASS
12)	Isopropyl ether	20.55	ppb	20.00	103 %	60 - 140	PASS
13)	tert-Butyl alcohol	34.20	ppb	200.00	17 %	60 - 140	FAIL
14)	trans-1,2-DCE	9.06	ppb	10.00	91 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	18.53	ppb	20.00	93 %	60 - 140	PASS
16)	Methylene Chloride	9.36	ppb	10.00	94 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.89	ppb	10.00	89 %	70 - 130	PASS
18)	Vinyl acetate	20.87	ppb	20.00	104 %	60 - 140	PASS
19)	2,2-Dichloropropane	11.50	ppb	10.00	115 %	70 - 130	PASS
20)	2-Butanone	19.29	ppb	20.00	96 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	9.21	ppb	10.00	92 %	70 - 130	PASS
23)	1,1-Dichloropropene	8.97	ppb	10.00	90 %	70 - 130	PASS
24)	tert-Amyl methyl ether	21.28	ppb	20.00	106 %	60 - 140	PASS
25)	Carbon Tetrachloride	8.69	ppb	10.00	87 %	70 - 130	PASS
26)	cis-1,2-DCE	9.44	ppb	10.00	94 %	70 - 130	PASS
27)	Benzene	9.18	ppb	10.00	92 %	70 - 130	PASS
28)	Chloroform	9.13	ppb	10.00	91 %	80 - 120	PASS
29)	Bromochloromethane	11.37	ppb	10.00	114 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.05	ppb	10.00	90 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	9.71	ppb	10.00	97 %	70 - 130	PASS
34)	1,2-Dichloropropane	9.63	ppb	10.00	96 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	18.98	ppb	20.00	95 %	60 - 140	PASS
37)	Toluene	8.71	ppb	10.00	87 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	22.21	ppb	20.00	111 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	7.44	ppb	10.00	74 %	70 - 130	PASS
40)	Bromodichloromethane	8.78	ppb	10.00	88 %	70 - 130	PASS
41)	2-Hexanone	17.22	ppb	20.00	86 %	60 - 140	PASS

or hits on a different instrument cdg 8-20-14

not calibrated

8-20-14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	8.62	ppb	10.00	86 %	70 - 130	PASS
43)	Dibromomethane	10.66	ppb	10.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	8.72	ppb	10.00	87 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	8.34	ppb	10.00	83 %	70 - 130	PASS
46)	Ethylbenzene	8.89	ppb	10.00	89 %	80 - 120	PASS
47)	mp-Xylenes	17.93	ppb	20.00	90 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.12	ppb	10.00	101 %	70 - 130	PASS
50)	Chlorobenzene	8.78	ppb	10.00	88 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	8.94	ppb	10.00	89 %	70 - 130	PASS
52)	o-Xylene	9.23	ppb	10.00	92 %	70 - 130	PASS
53)	Dibromochloromethane	9.93	ppb	10.00	99 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	9.98	ppb	10.00	100 %	70 - 130	PASS
55)	Isopropylbenzene	8.93	ppb	10.00	89 %	70 - 130	PASS
56)	Styrene	8.74	ppb	10.00	87 %	70 - 130	PASS
57)	n-Propylbenzene	8.85	ppb	10.00	89 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	8.89	ppb	10.00	89 %	70 - 130	PASS
59)	tert-Butylbenzene	9.45	ppb	10.00	95 %	70 - 130	PASS
60)	2-Chlorotoluene	9.46	ppb	10.00	95 %	70 - 130	PASS
62)	Bromobenzene	10.32	ppb	10.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	10.63	ppb	10.00	106 %	70 - 130	PASS
64)	sec-Butylbenzene	8.74	ppb	10.00	87 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	8.90	ppb	10.00	89 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.29	ppb	10.00	93 %	70 - 130	PASS
67)	Bromoform	9.25	ppb	10.00	93 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.03	ppb	10.00	90 %	70 - 130	PASS
69)	n-Butylbenzene	8.53	ppb	10.00	85 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.53	ppb	10.00	95 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.40	ppb	10.00	94 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	8.89	ppb	10.00	89 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	8.76	ppb	10.00	88 %	70 - 130	PASS
75)	Hexachlorobutadiene	8.64	ppb	10.00	86 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.00	ppb	10.00	90 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	7.91	ppb	10.00	79 %	70 - 130	PASS
78)	Naphthalene	7.97	ppb	10.00	80 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	8.71	ppb	10.00	87 %	70 - 130	PASS
80)	2-Methylnaphthalene	9.47	ppb	10.00	95 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.73	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

8/20/14

8/20/2014

Analyst: cadg

Calibration Curves Report

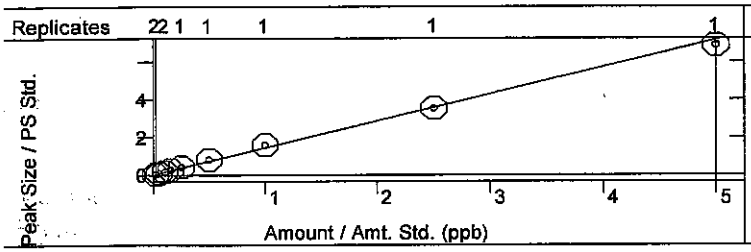
8/20/14 cog 8-20-14

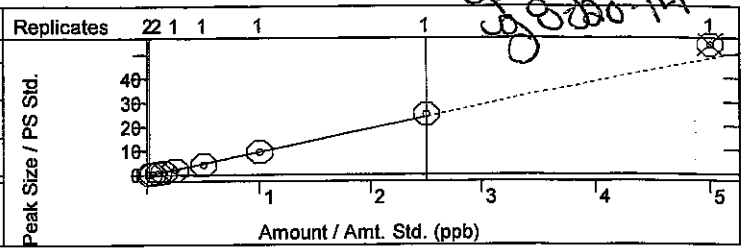
Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.65%, Coeff. Det.(r2): 0.999111
y = +1.4270x +0.0268

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.49%, Coeff. Det.(r2): 0.999063
y = +9.6943x -0.1267

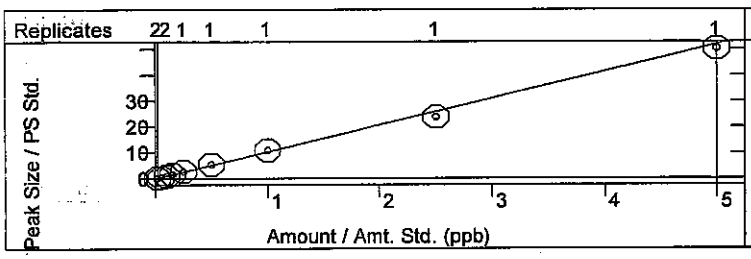
cog 8-20-14

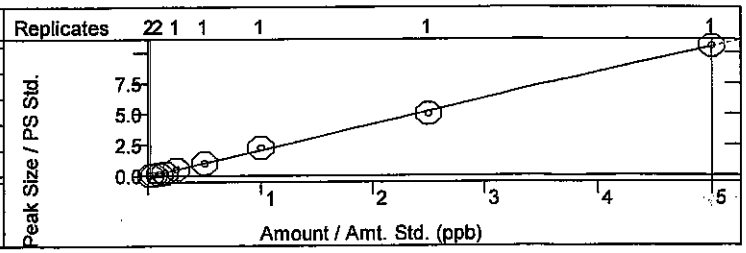




Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 10.85%, Coeff. Det.(r2): 0.998803
y = +10.3894x -0.0480

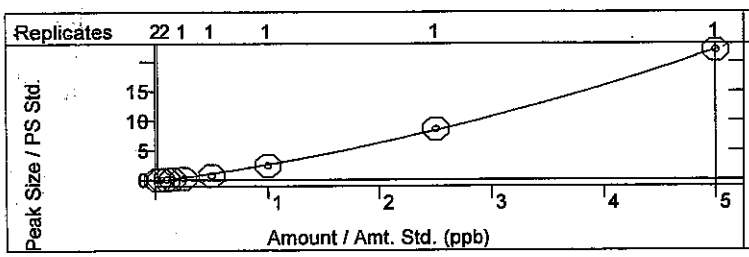
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999088
y = +2.1067x -0.0261

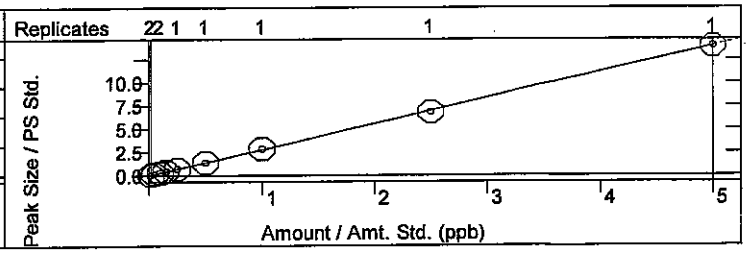




Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 62.50%, Coeff. Det.(r2): 0.999294
y = +0.3986x2 +2.4556x -0.2303

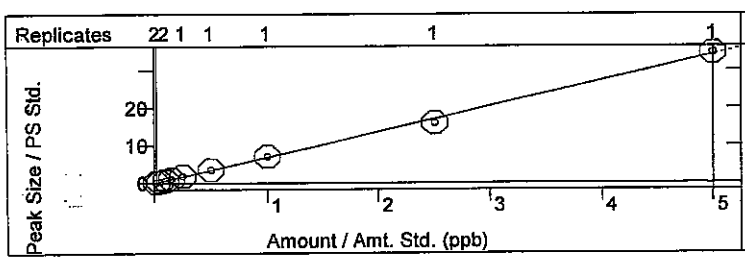
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.416%, Coeff. Det.(r2): 0.999857
y = +2.7930x +0.0091

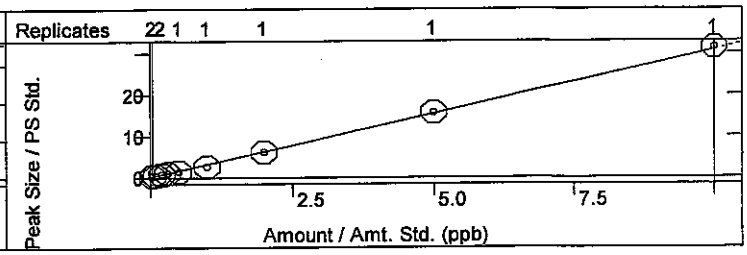




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.587%, Coeff. Det.(r2): 0.998572
y = +6.8276x +0.0312

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 42.61%, Coeff. Det.(r2): 0.999569
y = +3.0679x +0.1554

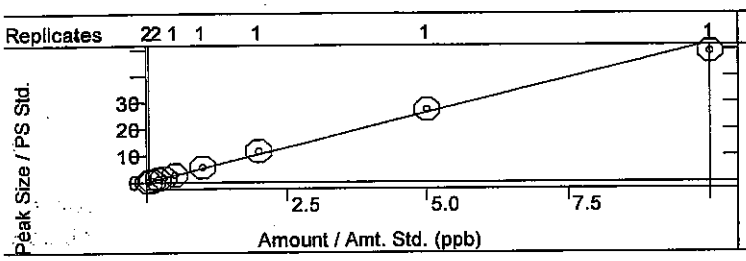




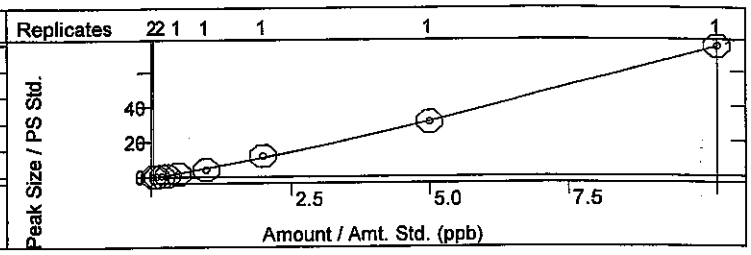
8-19-2014 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.831%, Coeff. Det.(r2): 0.996551
y = +5.2275x +0.1122

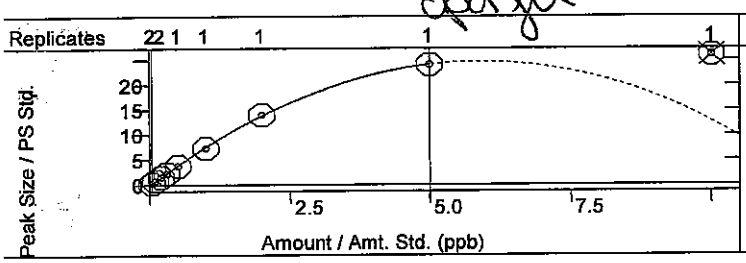


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 57.14%, Coeff. Det.(r2): 0.999541
y = +0.2165x2 +5.3870x -0.6564

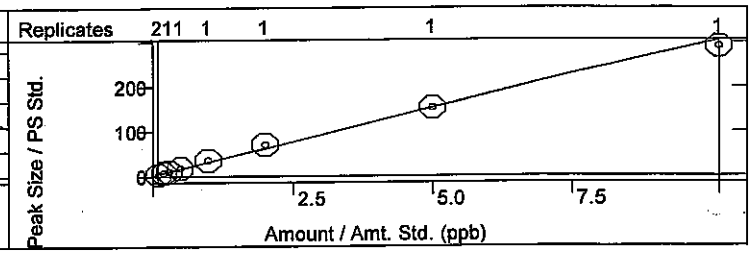


Methyl tert-butyl ether (MTBE)
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999764
y = -0.7137x2 +8.4165x -0.1220

cpd jit

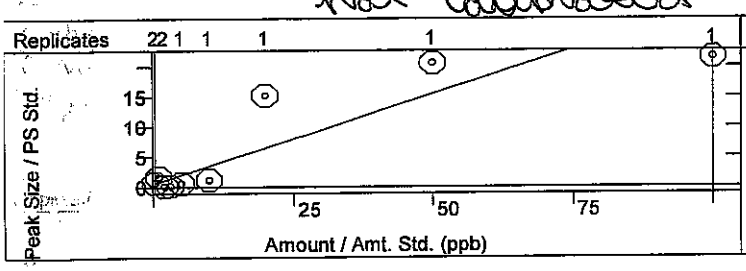


Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.218%, Coeff. Det.(r2): 0.998114
y = +30.2631x +1.6432

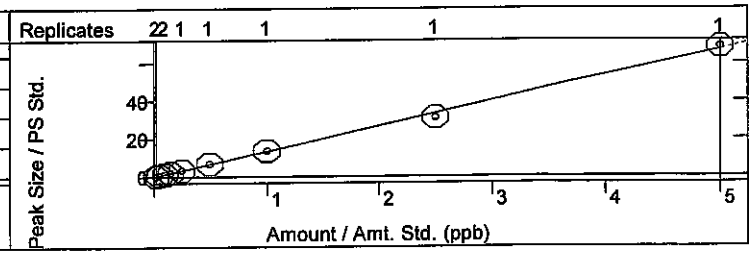


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 117.60%, Coeff. Det.(r2): 0.764910
y = +0.2989x +0.5537

not calibrated

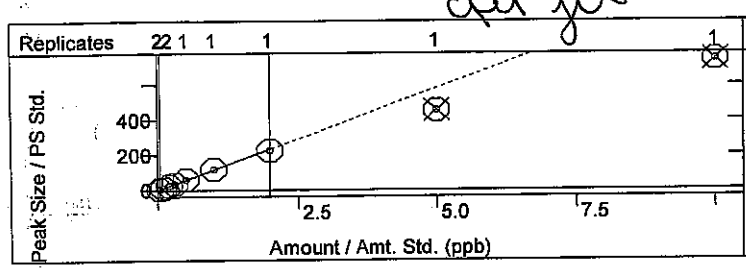


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.471%, Coeff. Det.(r2): 0.998196
y = +13.4153x +0.0321

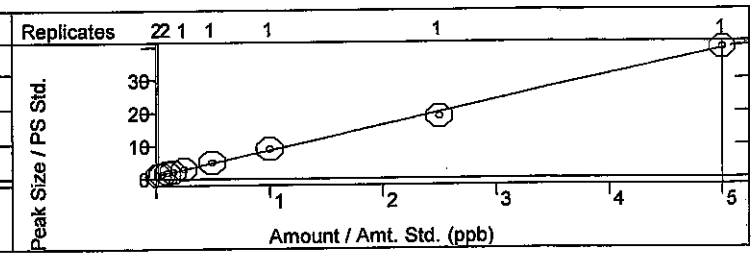


tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.092%, Coeff. Det.(r2): 0.999131
y = +116.0332x +0.8433

cpd jit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 86.43%, Coeff. Det.(r2): 0.998527
y = +7.6328x +0.9892



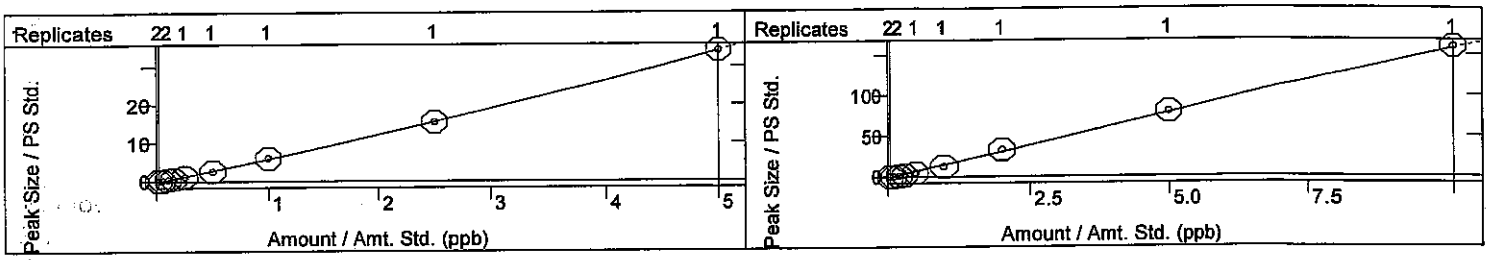
Calibration Curves Report

J 8.20.14 cg 8.20.14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,1-Dichloroethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 22.56%, Coeff. Det.(r2): 0.999897
y = +0.2249x2 +5.7317x -0.1425

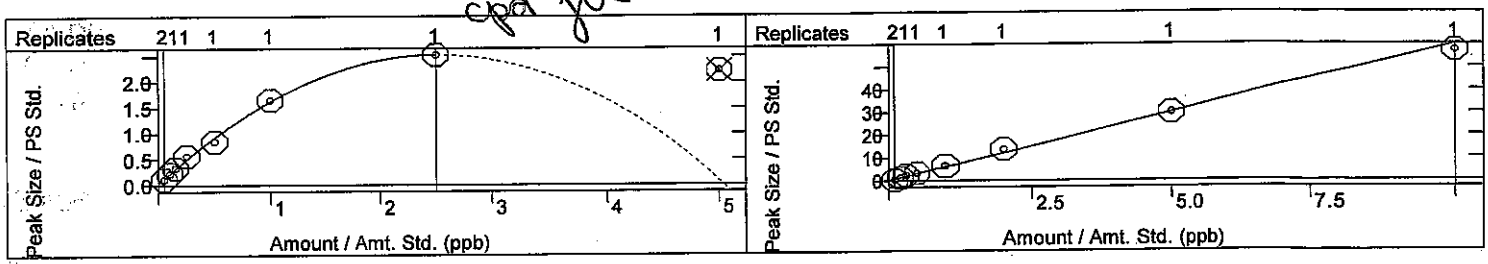
Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 71.07%, Coeff. Det.(r2): 0.999318
y = +15.9239x -1.2961



2,2-Dichloropropane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 25.59%, Coeff. Det.(r2): 0.997505
y = -0.3960x2 +1.9878x +0.0359

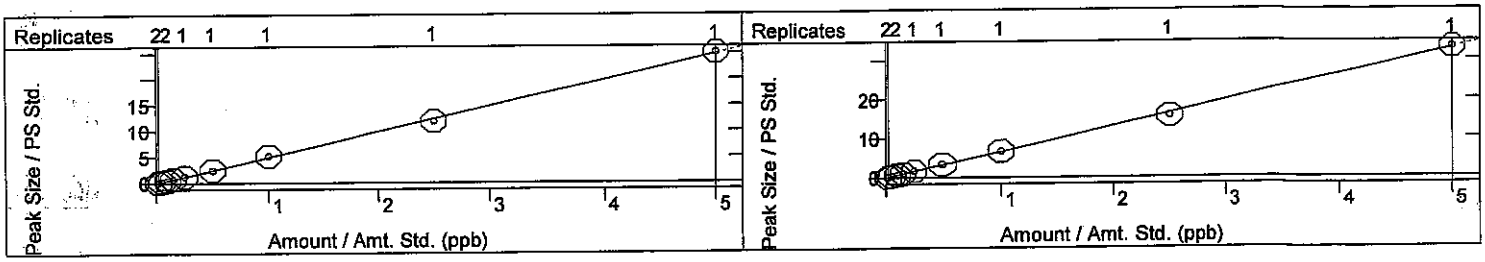
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998238
y = +5.9766x +0.1585

cpd fit



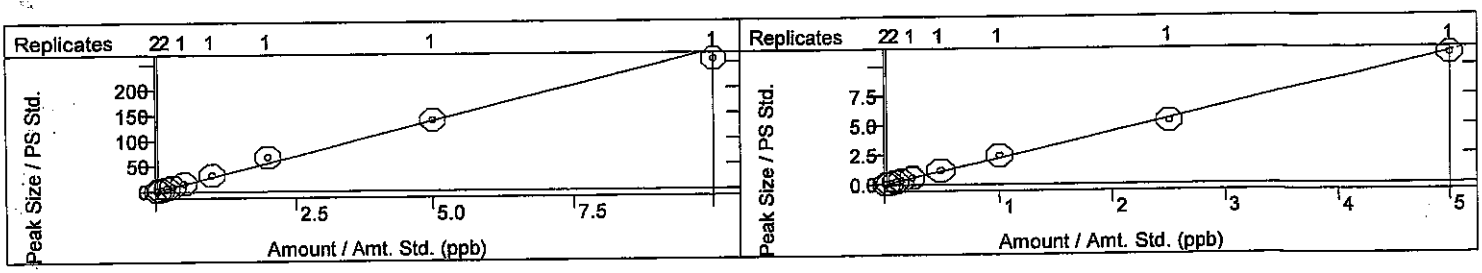
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.111%, Coeff. Det.(r2): 0.999338
y = +4.9724x +0.0045

1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.816%, Coeff. Det.(r2): 0.999462
y = +6.5828x +0.0288



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.337%, Coeff. Det.(r2): 0.995649
y = +27.5529x +0.6325

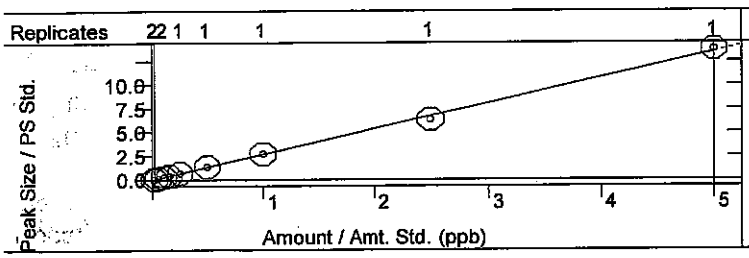
Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.614%, Coeff. Det.(r2): 0.999242
y = +2.2194x +0.0085



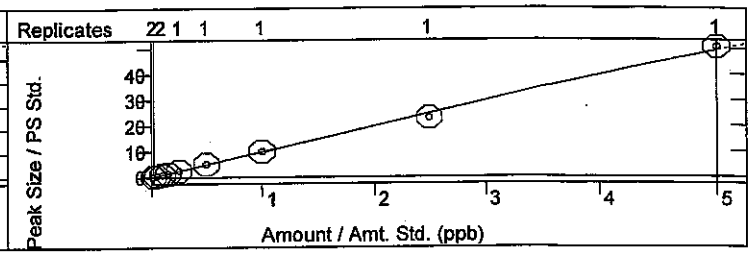
8/20/14 CG 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

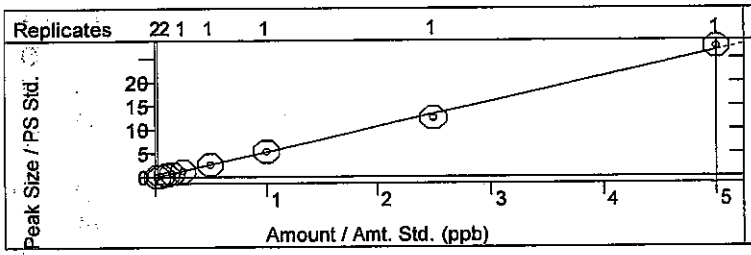
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.301%, Coeff. Det.(r2): 0.998717
y = +2.6982x -6.7023e-4



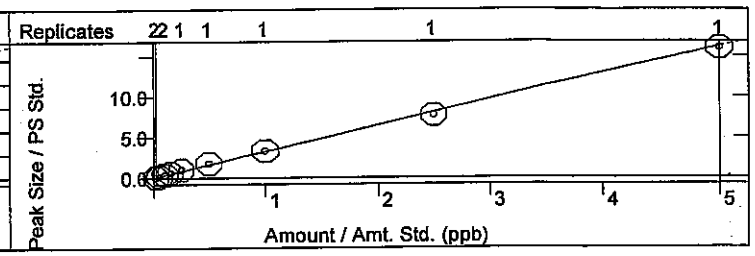
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.961%, Coeff. Det.(r2): 0.998071
y = +9.9164x +0.0027



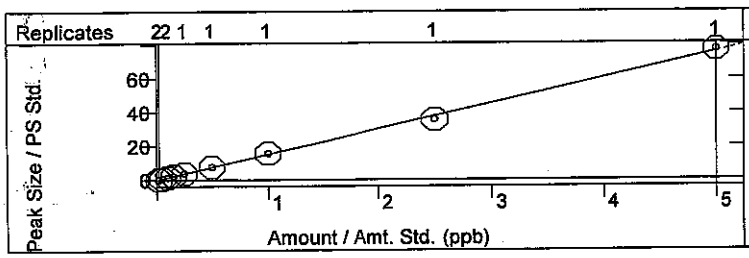
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.233%, Coeff. Det.(r2): 0.998132
y = +5.3306x -0.0231



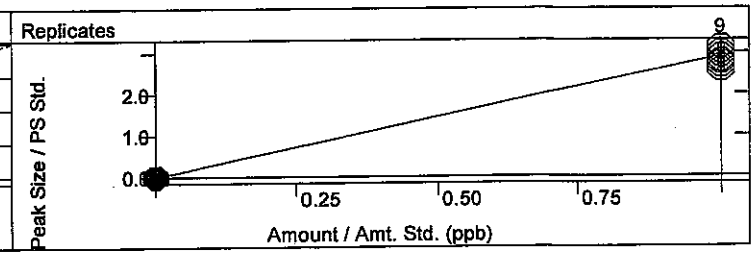
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.09%, Coeff. Det.(r2): 0.999388
y = +3.2305x +0.0510



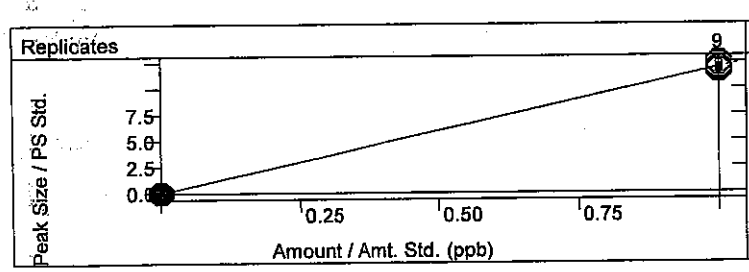
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.495%, Coeff. Det.(r2): 0.998719
y = +15.1244x +0.0525



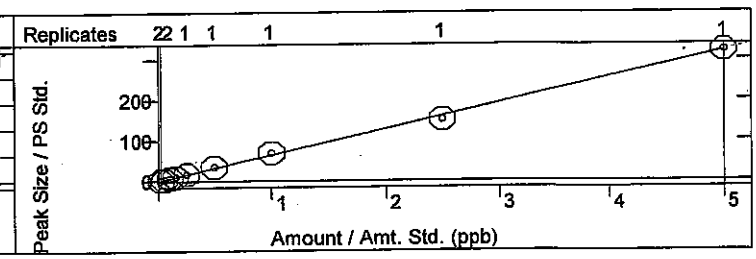
Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 7.555%, Coeff. Det.(r2): 0.951708
y = +2.9084x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.364%, Coeff. Det.(r2): 0.995058
y = +11.9599x



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.138%, Coeff. Det.(r2): 0.998813
y = +64.1099x +0.2792

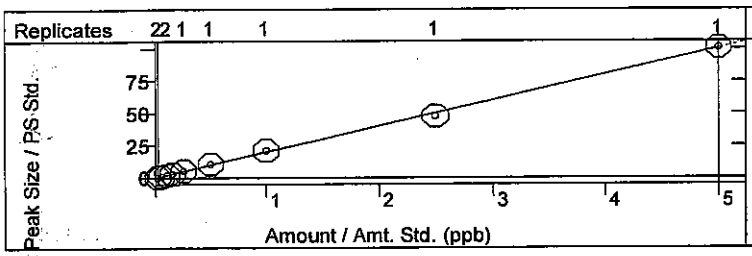


JRE-20-14
CO 8-20-14

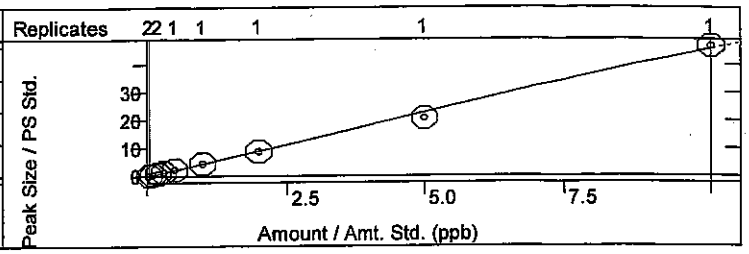
Calibration Curves Report

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

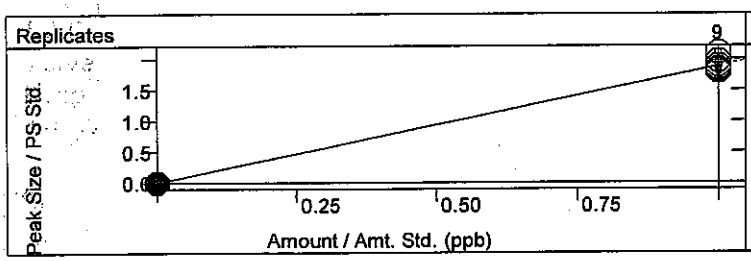
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.026%, Coeff. Det.(r2): 0.999201
y = +20.0792x +0.1085



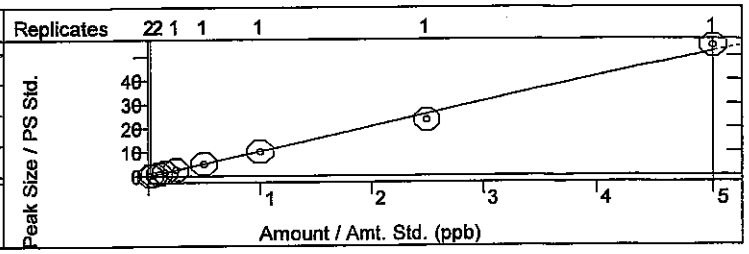
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.602%, Coeff. Det.(r2): 0.997162
y = +4.6009x -0.2215



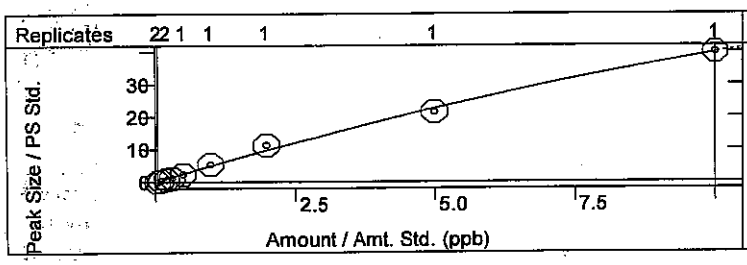
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.146%, Coeff. Det.(r2): 0.977006
y = +1.8875x



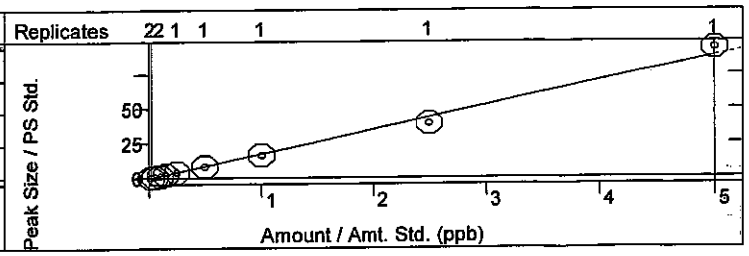
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.122%, Coeff. Det.(r2): 0.995772
y = +10.3698x +0.0107



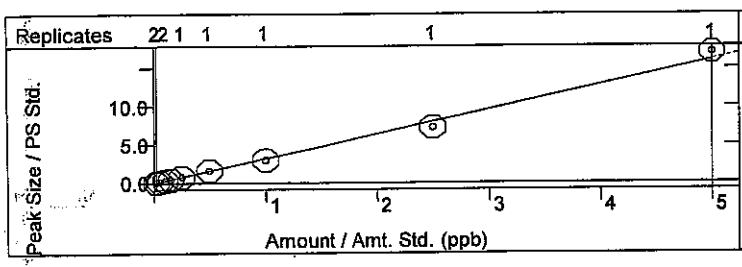
2-Chloroethyl vinyl ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.90%, Coeff. Det.(r2): 0.997166
y = -0.1113x2 +5.0804x +0.0344



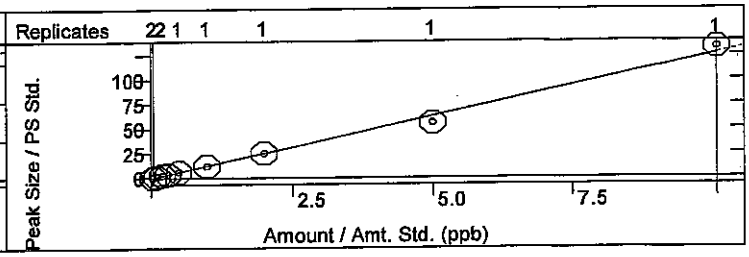
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.09%, Coeff. Det.(r2): 0.994577
y = +17.6131x -0.1766



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.538%, Coeff. Det.(r2): 0.995173
y = +3.2198x -0.0199



2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.45%, Coeff. Det.(r2): 0.994739
y = +12.6219x -0.1977

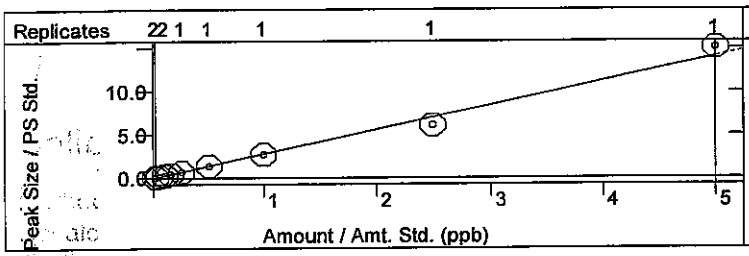


Calibration Curves Report

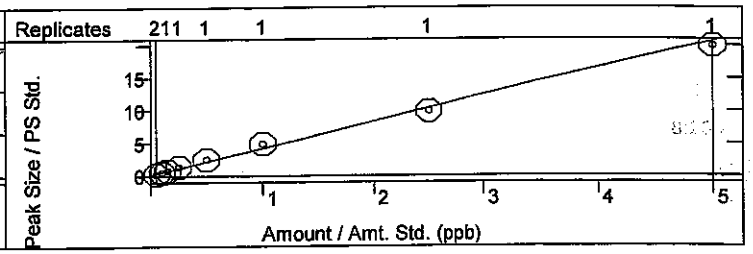
cg 8-20-14 JMP 8.20.14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

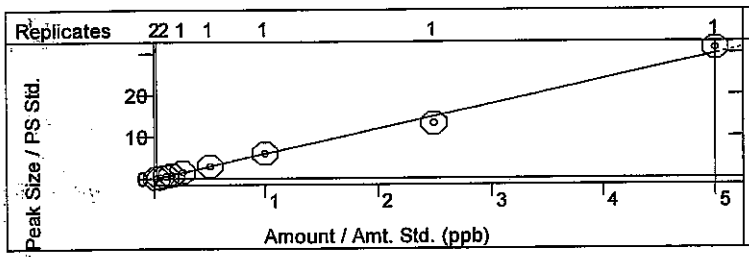
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.674%, Coeff. Det.(r2): 0.992081
y = +2.8060x -0.0044



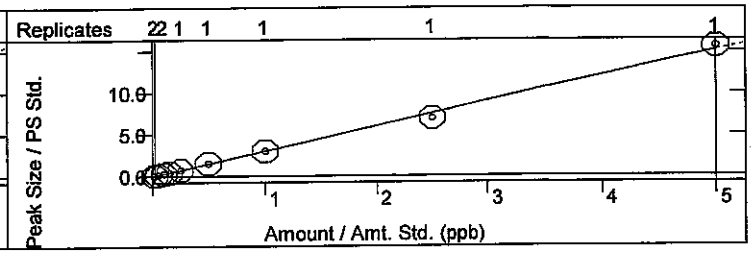
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.79%, Coeff. Det.(r2): 0.997795
y = +4.0957x +0.1537



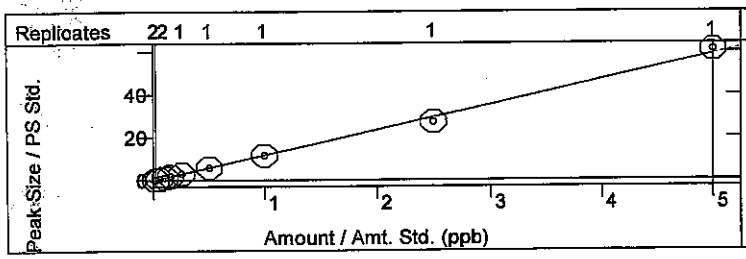
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.875%, Coeff. Det.(r2): 0.995013
y = +5.9557x -0.0167



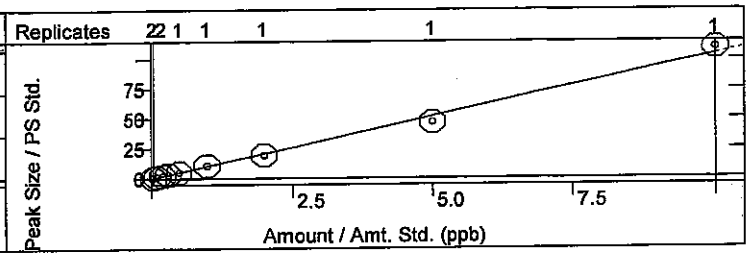
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.65%, Coeff. Det.(r2): 0.997566
y = +3.0278x -0.0224



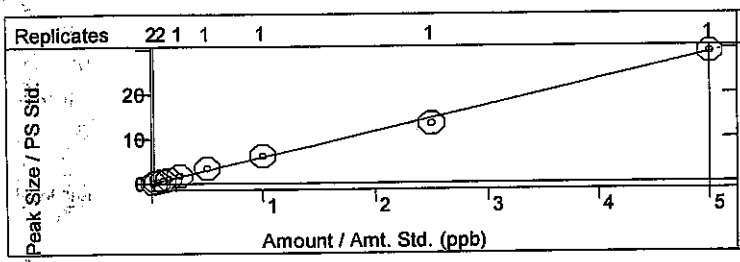
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.501%, Coeff. Det.(r2): 0.997549
y = +11.7531x +0.0337



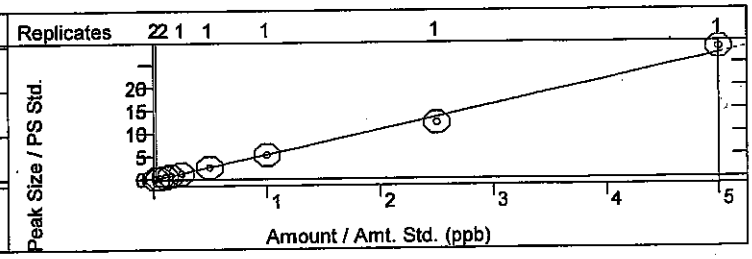
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.091%, Coeff. Det.(r2): 0.995537
y = +10.3914x +0.0390



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.124%, Coeff. Det.(r2): 0.997727
y = +5.7984x +0.0688



Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.379%, Coeff. Det.(r2): 0.995955
y = +5.3998x -0.0043

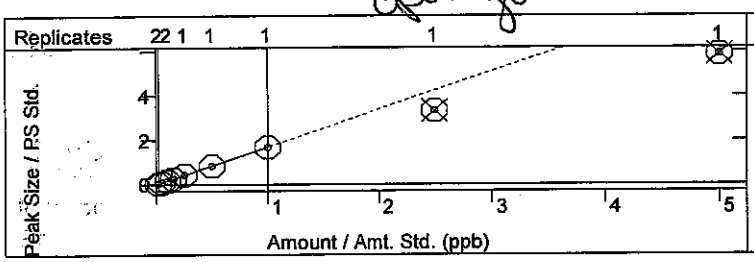


Calibration Curves Report

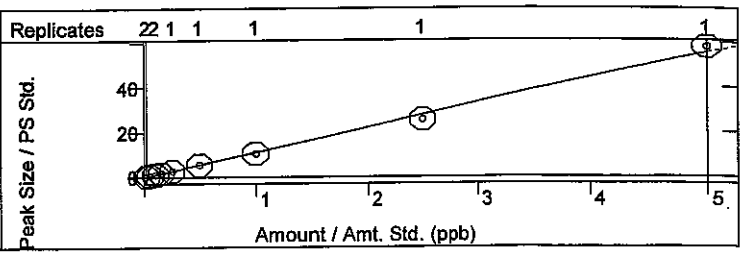
8/20/14 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

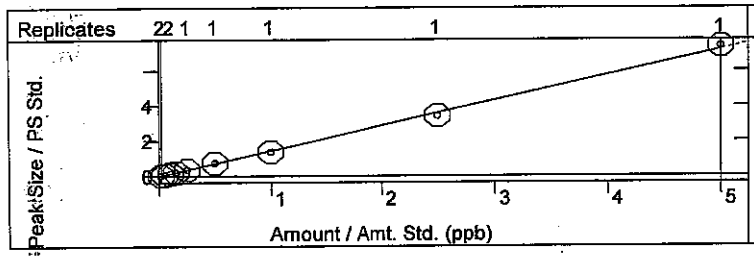
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.019%, Coeff. Det.(r2): 0.999785
y = +1.7017x +7.5175e-4



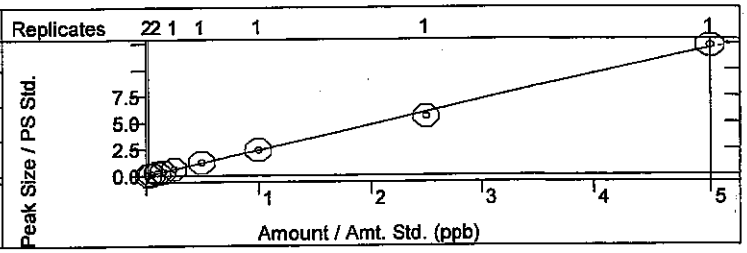
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.665%, Coeff. Det.(r2): 0.996878
y = +11.1408x -0.0058



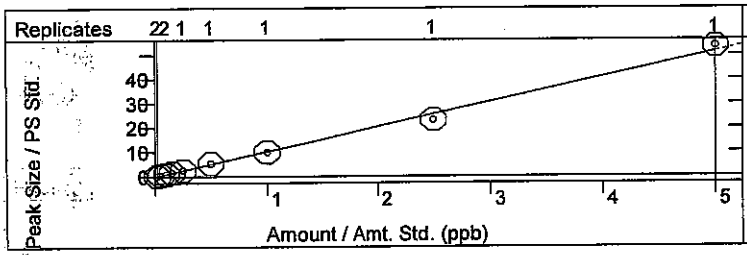
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.291%, Coeff. Det.(r2): 0.998741
y = +1.4387x +9.7474e-5



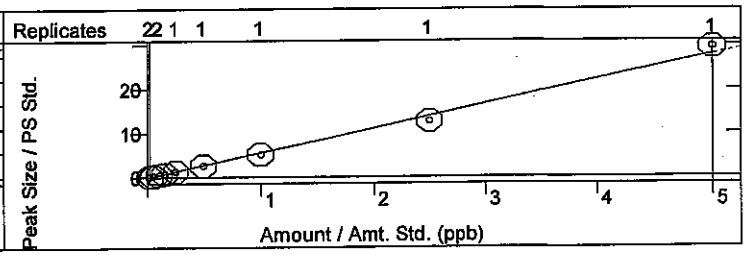
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.941%, Coeff. Det.(r2): 0.998212
y = +2.4021x +0.0096



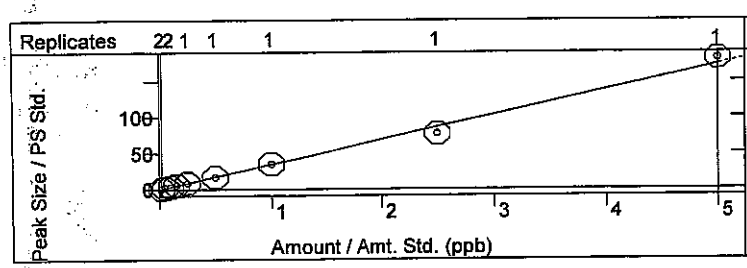
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.023%, Coeff. Det.(r2): 0.996235
y = +10.2503x +0.0260



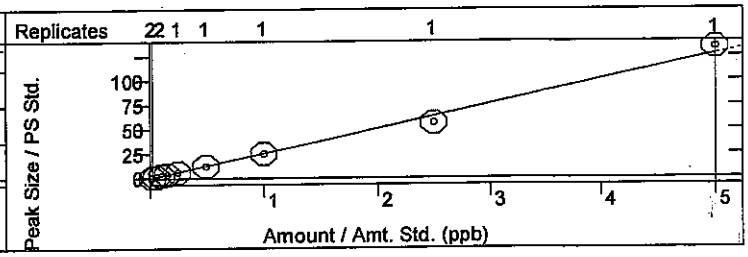
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.538%, Coeff. Det.(r2): 0.995783
y = +5.5625x -0.0217



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.116%, Coeff. Det.(r2): 0.994861
y = +34.5249x +0.1351



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.602%, Coeff. Det.(r2): 0.994491
y = +25.3464x +0.0513



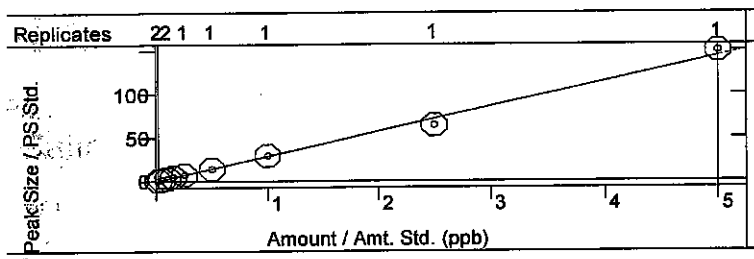
Calibration Curves Report

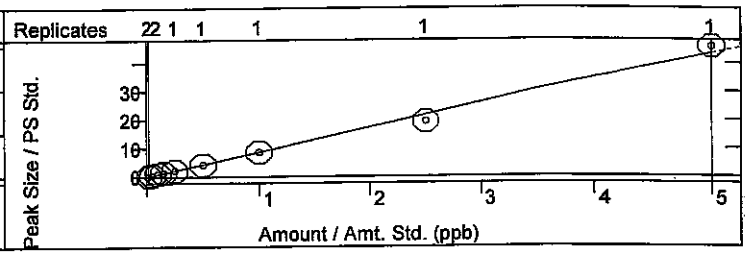
1/Pt 8-20-14 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.232%, Coeff. Det.(r2): 0.995465
y = +28.7256x +0.1288

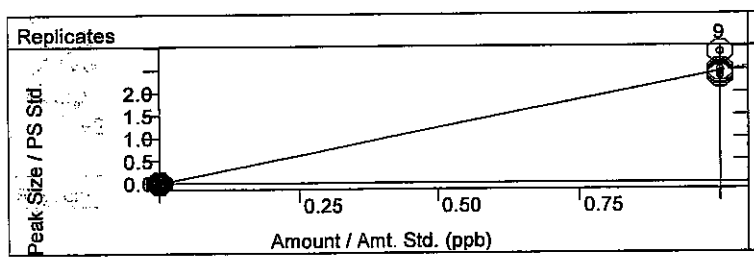
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.524%, Coeff. Det.(r2): 0.994813
y = +8.6909x +0.0229

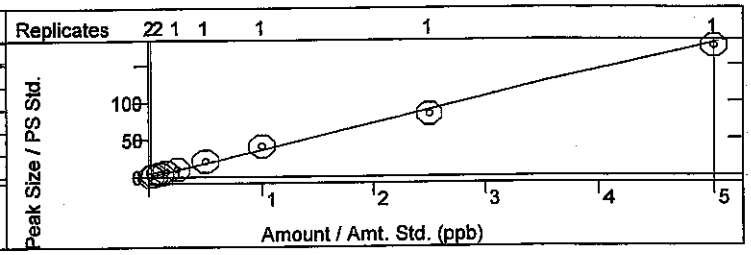




4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 6.816%, Coeff. Det.(r2): 0.960340
y = +2.4592x

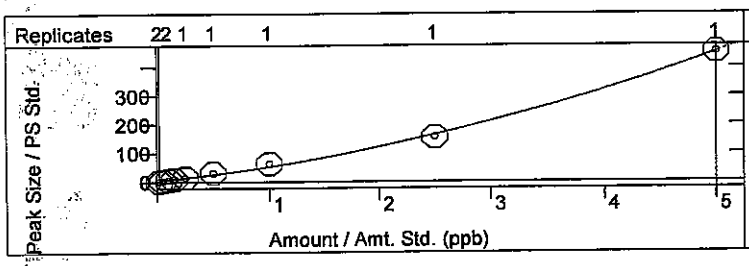
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.33%, Coeff. Det.(r2): 0.998055
y = +35.7413x +0.5386

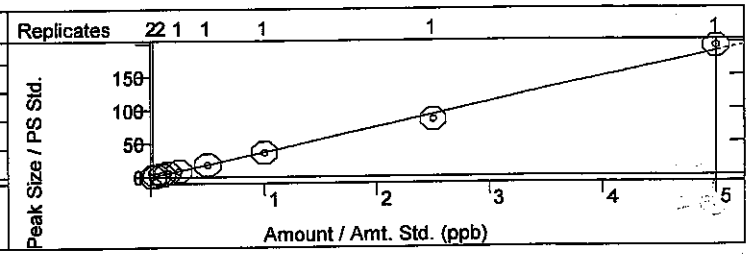




4-Chlorotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.24%, Coeff. Det.(r2): 0.998621
y = +10.1002x2 +38.9644x +4.2013

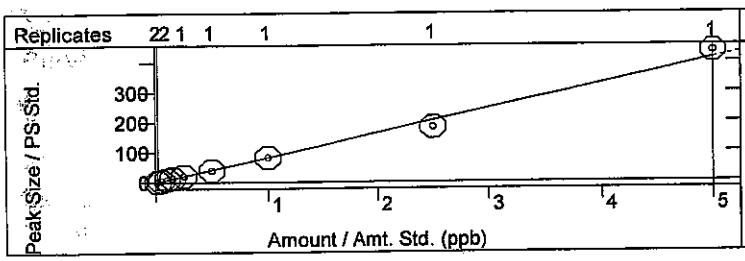
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.803%, Coeff. Det.(r2): 0.996806
y = +37.2724x +0.0818

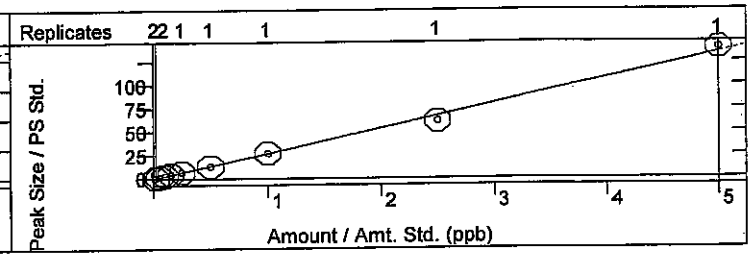




1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.457%, Coeff. Det.(r2): 0.994446
y = +82.4188x +0.1249

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.023%, Coeff. Det.(r2): 0.996820
y = +26.8692x +0.1010





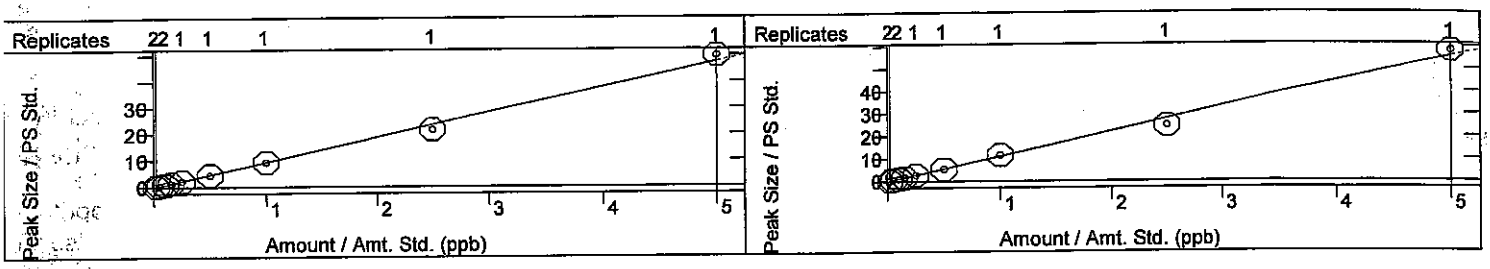
Calibration Curves Report

08-20-14 JMazur

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

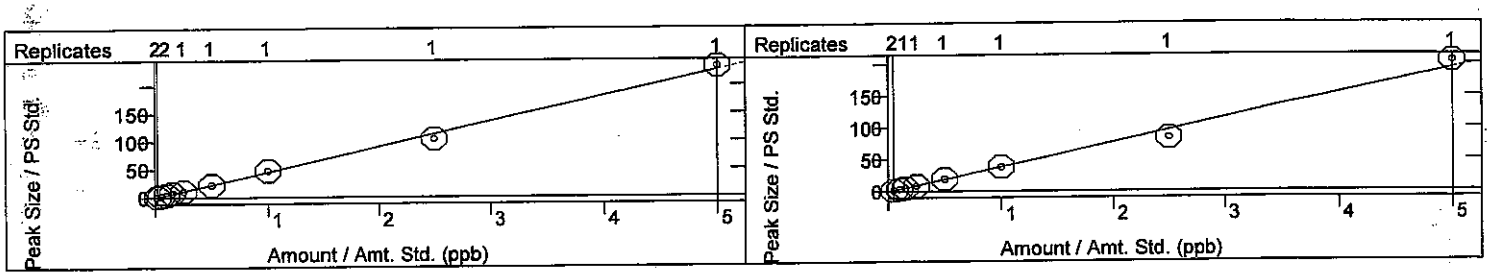
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.706%, Coeff. Det.(r2): 0.996565
y = +9.4955x -0.0586

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.318%, Coeff. Det.(r2): 0.995074
y = +11.1317x -0.0177



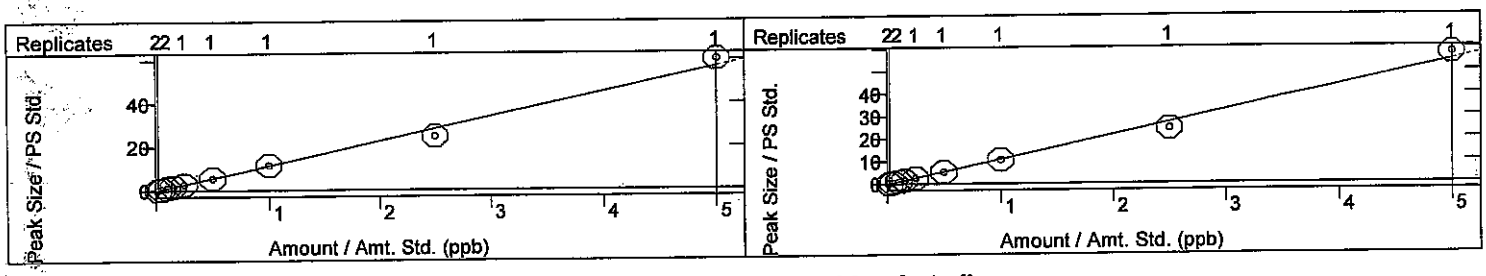
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.832%, Coeff. Det.(r2): 0.997363
y = +45.5393x +0.0572

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.775%, Coeff. Det.(r2): 0.992912
y = +38.6954x -0.3369



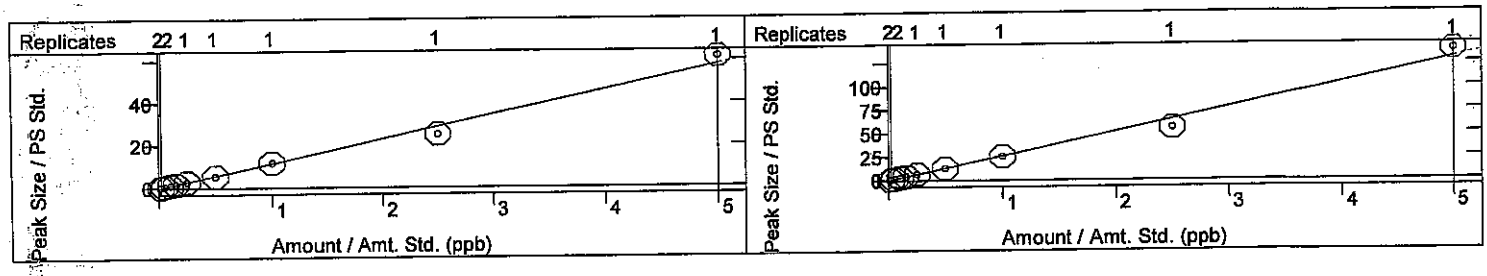
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.492%, Coeff. Det.(r2): 0.993319
y = +11.3713x +0.0056

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.082%, Coeff. Det.(r2): 0.995059
y = +10.9507x -0.0165



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.591%, Coeff. Det.(r2): 0.992733
y = +11.5647x -0.0226

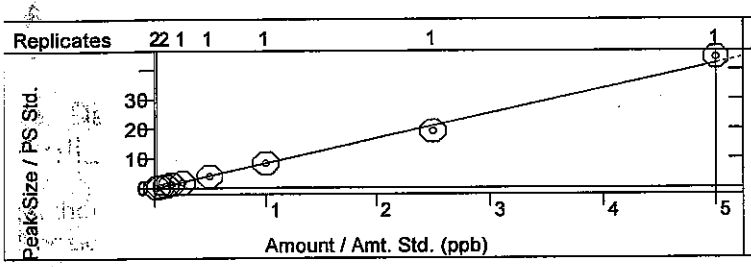
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.17%, Coeff. Det.(r2): 0.991459
y = +25.9111x +0.2304



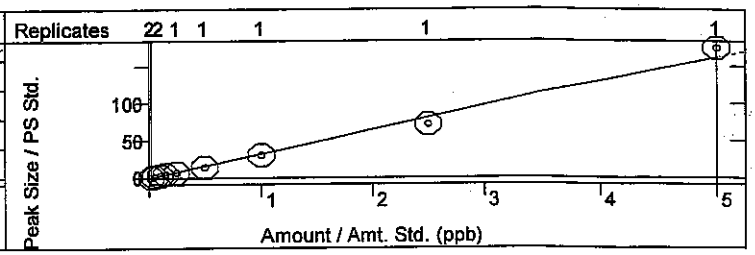
Calibration Curves Report

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.71%, Coeff. Det.(r2): 0.996359
y = +8.4446x -0.0692

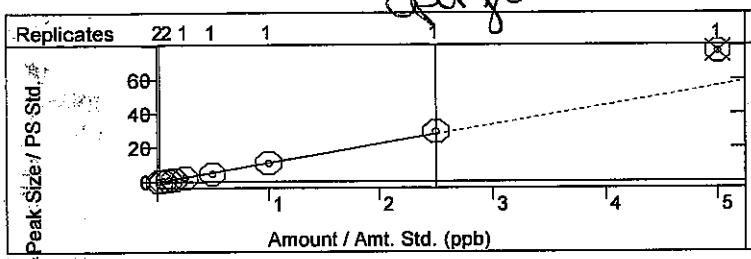


1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.40%, Coeff. Det.(r2): 0.992847
y = +32.5176x -0.3082



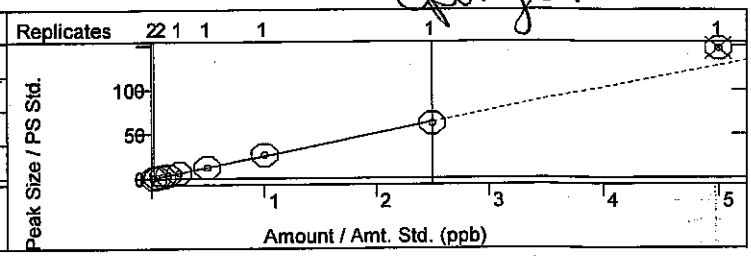
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 21.14%, Coeff. Det.(r2): 0.998477
y = +11.2739x -0.1973

cpd fit



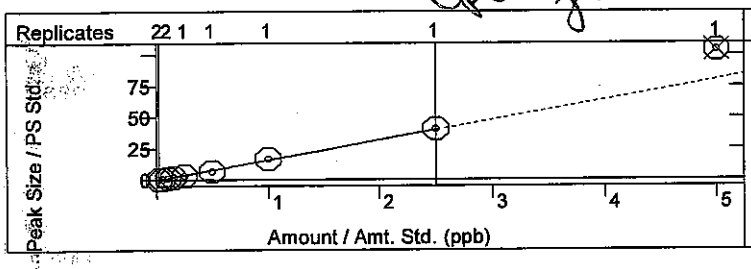
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.48%, Coeff. Det.(r2): 0.998831
y = +25.5311x -0.1203

cpd fit



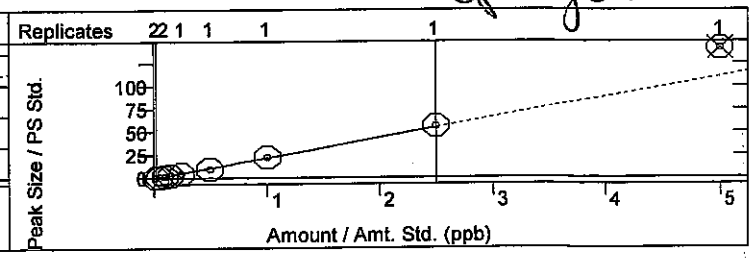
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.48%, Coeff. Det.(r2): 0.998758
y = +16.0607x -0.2126

cpd fit

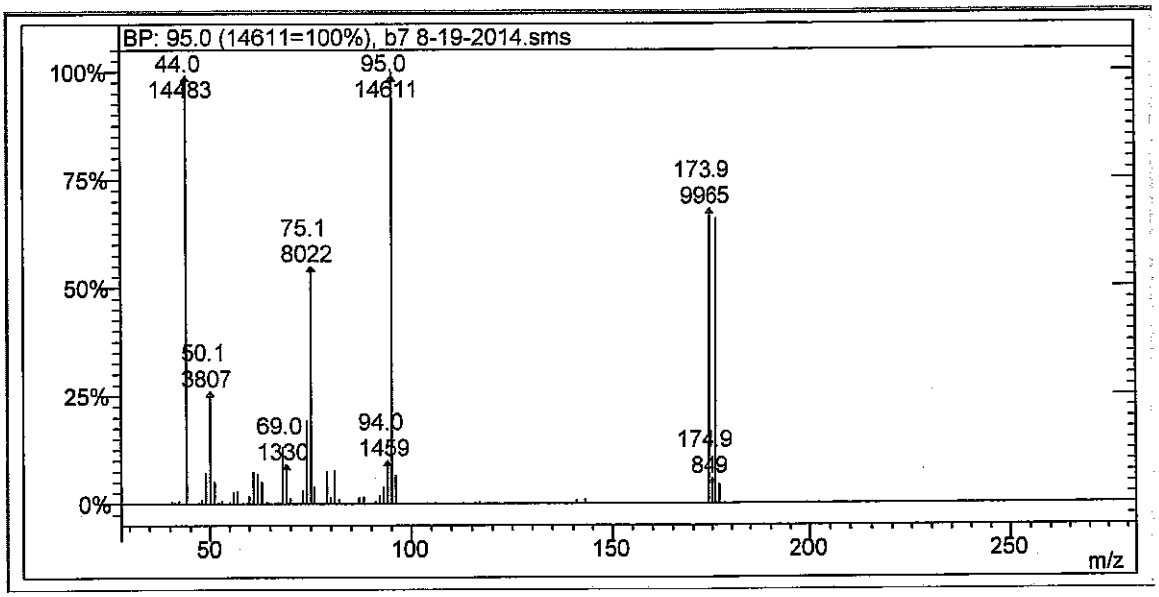


1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.44%, Coeff. Det.(r2): 0.999241
y = +22.1251x -0.3137

cpd fit



BFB 8260B Report



Lab File ID b7 8-19-2014.sms

Injection Date: 8/19/2014

Injection Time: 15:50

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	26.06	PASS
75	30-60% of m/z 95	54.90	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.57	PASS
173	<2% of m/z 174	0.04	PASS
174	>50% of m/z 95	68.20	PASS
175	5-9% of m/z 174	8.52	PASS
176	>95% but <101% of m/z 174	96.66	PASS
177	5-9% of m/z 176	6.61	PASS

cadg 8-20-14

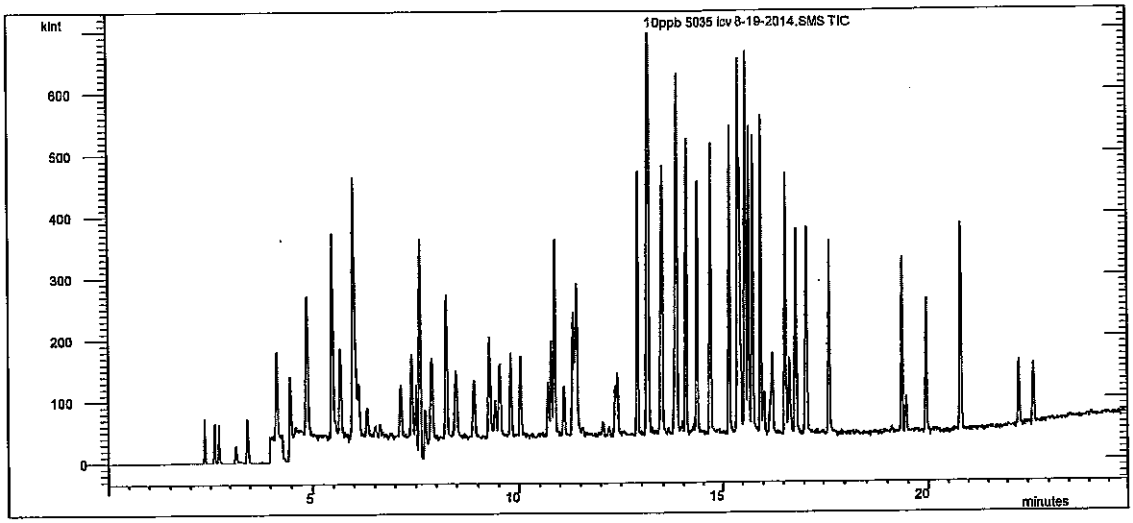
8-20-14

8260B/624 Report

Sample Name: 10ppb 5035 icv **Operator Name:** Christina Gallegos **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\081914m 8260-5035 Low.mth **Inj. Notes:** V-54-0465 **Acquisition Date:** 8/19/2014 10:04:34 PM

Calculation Date: 8/20/2014 8:36:35 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.137	695	Identified	50248	20.000
Benzene-d5-, chloro-	13.447	1368	Identified	73822	20.000
1,4-Dichlorobenzene-d4	17.031	1746	Identified	28104	20.000
Dichlorodifluoromethane	2.358	184	Identified	57707	15.721
Chloromethane	2.602	210	Identified	236130	9.956
Vinyl chloride	2.715	222	Identified	295793	11.424
Chloroethane	3.148	269	Identified	54886	10.617
Bromomethane	3.153	269	Identified	55209	10.011
Trichlorofluoromethane	3.443	300	Identified	59731	8.447
1,1-Dichloroethene	4.154	377	Identified	152817	8.817
Acetone	4.334	396	Identified	123800	15.049
Carbon disulfide	4.474	411	Identified	252886	18.825
Iodomethane	4.607	425	Identified	189746	15.946
Methyl tert-butyl ether (MTBE)	4.869	452	Identified	344611	17.953
Isopropyl ether	5.474	517	Identified	1.645E6	20.554
tert-Butyl alcohol	5.677	539	Identified	53509	34.202
trans-1,2-DCE	5.675	538	Identified	306923	9.058
tert-Butyl ethyl ether	5.983	571	Identified	5.445E6	18.534
Methylene Chloride	6.036	577	Identified	229230	9.362
1,1-Dichloroethane	6.117	585	Identified	123033	8.886
Vinyl acetate	6.321	607	Failed	769799	20.869
2,2-Dichloropropane	6.525	629	Identified	52645	11.497
2-Butanone	6.637	641	Identified	297605	19.289
1,1,1-Trichloroethane	7.400	723	Identified	115272	9.209

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.515	735	Identified	149777	8.969
tert-Amyl methyl ether	7.605	745	Identified	1.505E6	21.284
Carbon Tetrachloride	7.733	758	Identified	48866	8.687
cis-1,2-DCE	7.893	775	Identified	63954	9.439
Benzene	8.249	813	Identified	228775	9.177
Chloroform	8.485	838	Identified	121172	9.134
Bromochloromethane	8.902	883	Identified	94826	11.368
Trichloroethene (TCE)	9.265	922	Identified	346383	9.046
Dibromofluoromethane	9.295	925	Identified	157786	21.594
1,2-Dichloroethane-d4	9.409	937	Identified	611899	20.364
1,2-Dichloroethane (EDC)	9.516	948	Identified	1.579E6	9.714
1,2-Dichloropropane	9.792	977	Identified	491278	9.630
4-Methyl-2-pentanone	10.035	1003	Identified	305899	18.975
Toluene-d8	10.784	1084	Identified	136771	19.631
Toluene	10.867	1092	Identified	334323	8.714
2-Chloroethyl vinyl ether	11.102	1117	Identified	408819	22.206
cis-1,3-dichloropropene	11.317	1140	Identified	470743	7.441
Bromodichloromethane	11.327	1141	Identified	102883	8.780
2-Hexanone	11.369	1146	Identified	787785	17.223
Tetrachloroethene (PCE)	11.402	1149	Identified	88974	8.622
Dibromomethane	11.417	1151	Identified	172464	10.658
1,3-Dichloropropane	12.358	1251	Identified	190362	8.716
trans-1,3-dichloropropene	12.410	1257	Identified	91585	8.343
Ethylbenzene	12.893	1309	Identified	388249	8.892
mp-Xylenes	13.141	1336	Identified	690489	17.927
1,1,2-Trichloroethane	13.140	1336	Identified	221726	10.123
Chlorobenzene	13.471	1371	Identified	174760	8.784
1,2-Dibromoethane (EDB)	13.456	1369	Identified	56214	8.941
o-Xylene	13.813	1407	Identified	379204	9.232
Dibromochloromethane	13.786	1404	Identified	52739	9.930
1,1,1,2-Tetrachloroethane	13.835	1409	Identified	89207	9.981
Isopropylbenzene	14.052	1432	Identified	339924	8.934
Styrene	14.324	1460	Identified	177943	8.745
n-Propylbenzene	14.675	1498	Identified	433175	8.850
1,3,5-Trimethylbenzene	15.155	1549	Identified	318240	8.894
tert-Butylbenzene	15.363	1571	Identified	385224	9.454
2-Chlorotoluene	15.405	1575	Failed	116223	9.464
4-Bromofluorobenzene	15.454	1580	Identified	70732	20.468
Bromobenzene	15.549	1590	Identified	533681	10.325
4-Chlorotoluene	15.565	1592	Identified	780162	10.628
sec-Butylbenzene	15.641	1600	Identified	460085	8.740
1,2,4-Trimethylbenzene	15.732	1609	Identified	1.035E6	8.903
4-Isopropyltoluene	15.928	1630	Identified	353577	9.289
Bromoform	16.015	1639	Identified	121782	9.250
1,2,3-Trichloropropane	16.220	1661	Identified	140793	9.033
n-Butylbenzene	16.542	1695	Identified	547450	8.530
1,1,2,2-Tetrachloroethane	16.642	1705	Identified	508496	9.526
1,3-Dichlorobenzene	16.794	1721	Identified	150311	9.397
1,4-Dichlorobenzene	17.055	1749	Identified	136290	8.887
1,2-Dichlorobenzene	17.639	1811	Identified	141712	8.759

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.348	1996	Identified	321040	8.639
1,2-Dibromo-3-chloropropane	19.445	2006	Identified	104810	8.996
1,2,4-Trichlorobenzene	19.936	2059	Identified	352701	7.908
Naphthalene	20.792	2150	Identified	120734	7.971
1,2,3-Trichlorobenzene	20.807	2152	Identified	309081	8.709
2-Methylnaphthalene	22.291	2311	Identified	207641	9.465
1-Methylnaphthalene	22.646	2348	Identified	262709	8.733

****
Revision Log
****

8/19/2014 10:29 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\081914m 8260-5035 Low.mth'
8/20/2014 8:36 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\081914m 8260-5035 Low.mth'

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408994**
Date Reported: 8/22/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Lab ID: 1408994-001
Client Sample ID: FFOR-CF-0046
Collection Date: 08/19/14 8:07:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Aniline	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Anthracene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Benzo(a)pyrene	0.087	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Benzo(b)fluoranthene	0.13	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Carbazole	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Chrysene	0.085	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Di-n-butyl phthalate	0.056	0.53	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Comment: Rush due 08/22

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	0.16	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Fluorene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Indeno(1,2,3-cd)pyrene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Isophorone	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Methylphenol	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Naphthalene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Nitrobenzene	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Phenanthrene	0.045	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Phenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Pyrene	0.13	0.21	J	mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Pyridine	ND	0.53		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14865	08/21/14 11:59:40 AM
Surr: 2-Fluorophenol	84.3	21-111		%REC	1	14865	08/21/14 11:59:40 AM
Surr: Phenol-d5	79.0	23.1-117		%REC	1	14865	08/21/14 11:59:40 AM
Surr: 2,4,6-Tribromophenol	79.1	22.7-88.9		%REC	1	14865	08/21/14 11:59:40 AM
Surr: Nitrobenzene-d5	90.1	24.5-126		%REC	1	14865	08/21/14 11:59:40 AM
Surr: 2-Fluorobiphenyl	89.9	21.2-129		%REC	1	14865	08/21/14 11:59:40 AM
Surr: 4-Terphenyl-d14	79.1	39.4-107		%REC	1	14865	08/21/14 11:59:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408994
Project: Kirtland AFB

Lab ID: 1408994-002 **Collection Date:** 08/19/14 3:31:00 PM
Client Sample ID: FFOR-CF-0047 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: Rush due 08/22							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Aniline	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Benz(a)anthracene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Benzo(a)pyrene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Benzo(b)fluoranthene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Benzo(g,h,i)perylene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Chrysene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Di-n-octyl phthalate	ND	0.87		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
3,3'-Dichlorobenzidine	ND	0.54		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4-Dichlorophenol	ND	0.87		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4-Dimethylphenol	ND	0.65		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408994

Comment: Rush due 08/22

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Methylnaphthalene	0.41	0.44	J	mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Naphthalene	0.35	0.44	J	mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Nitroaniline	ND	0.87		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
4-Nitrophenol	ND	0.54		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Pentachlorophenol	ND	0.87		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Phenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Pyrene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 1:28:05 PM
Surr: 2-Fluorophenol	82.9	21-111		%REC	1	14865	08/21/14 1:28:05 PM
Surr: Phenol-d5	82.8	23.1-117		%REC	1	14865	08/21/14 1:28:05 PM
Surr: 2,4,6-Tribromophenol	80.9	22.7-88.9		%REC	1	14865	08/21/14 1:28:05 PM
Surr: Nitrobenzene-d5	96.4	24.5-126		%REC	1	14865	08/21/14 1:28:05 PM
Surr: 2-Fluorobiphenyl	94.6	21.2-129		%REC	1	14865	08/21/14 1:28:05 PM
Surr: 4-Terphenyl-d14	86.6	39.4-107		%REC	1	14865	08/21/14 1:28:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

an Star Workstation - 8400 SampleList Mon Apr 28 [illegible]

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-827.0	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

JC
4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and ww.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

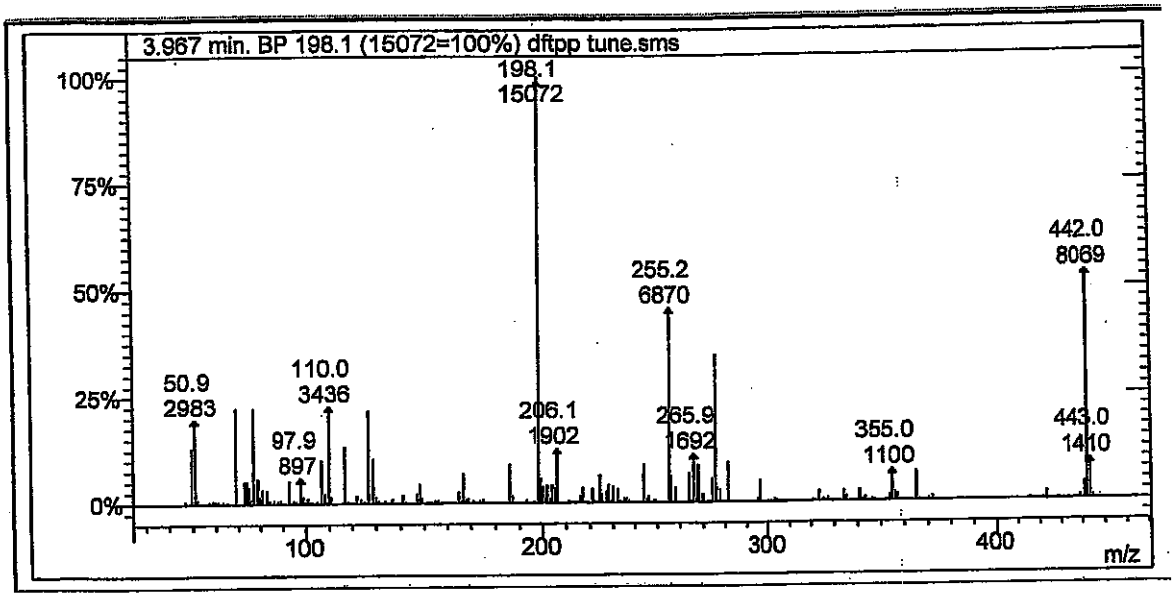
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

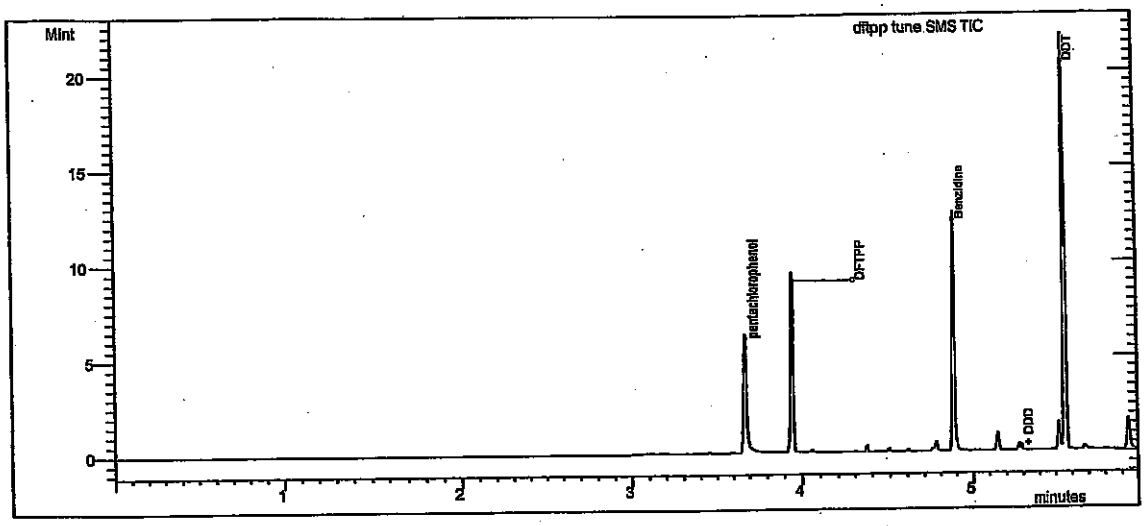
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

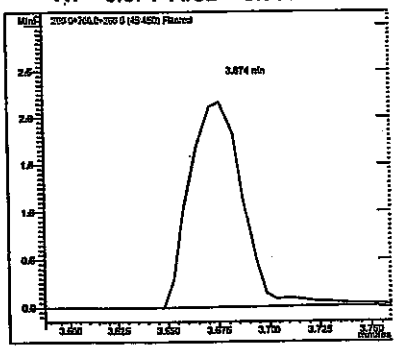
% Degradation of DDT : = .509 ✓ dam 4/28/14

✓ 4-28-14

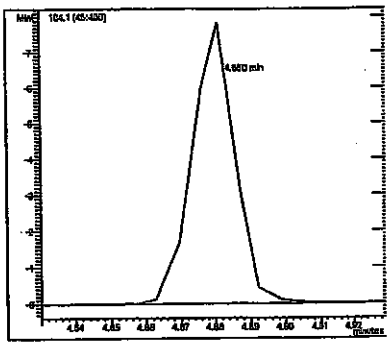
Tailing and Gaussian Factor Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

4/18/14

4.28.14

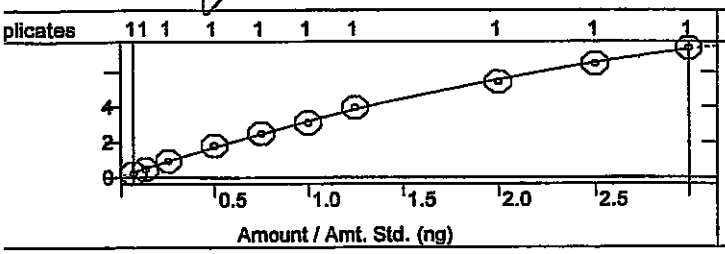
alibration Curves Report

v JAH 4/28/14

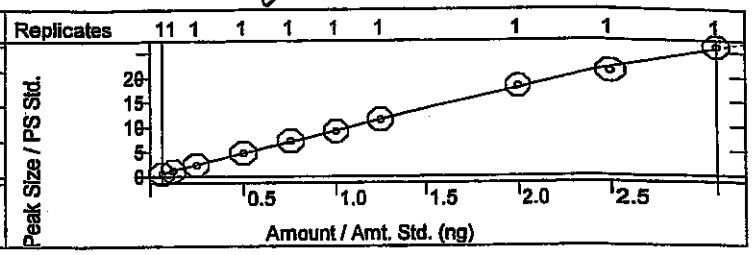
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

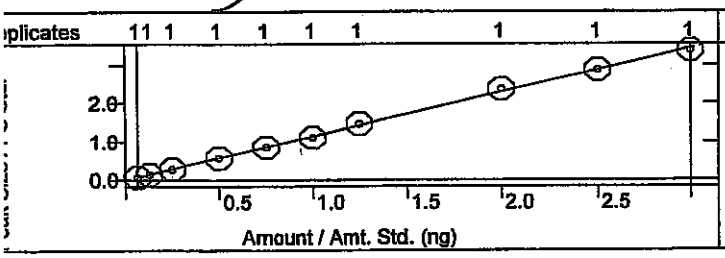
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



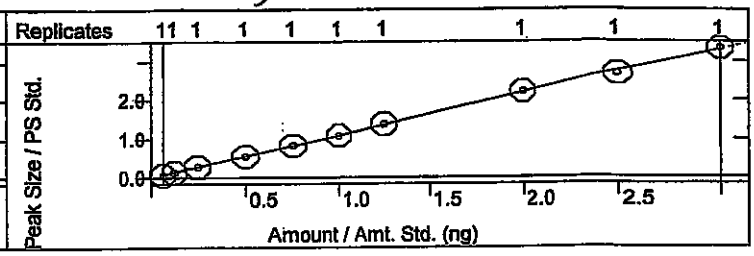
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



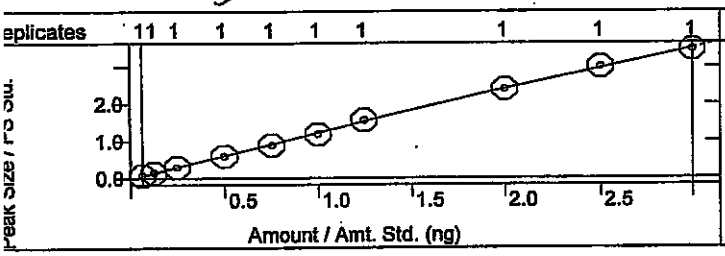
-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



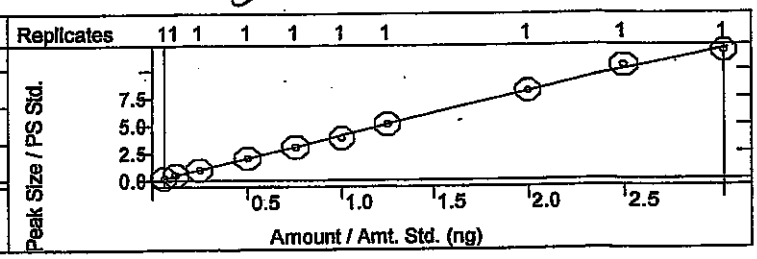
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



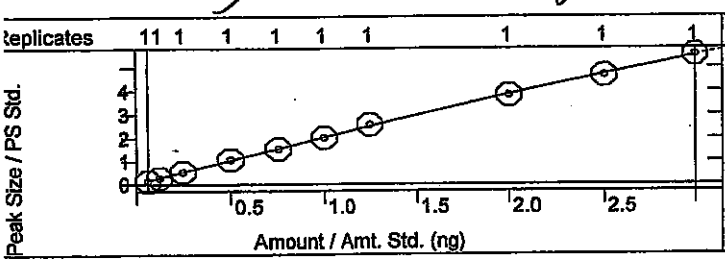
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



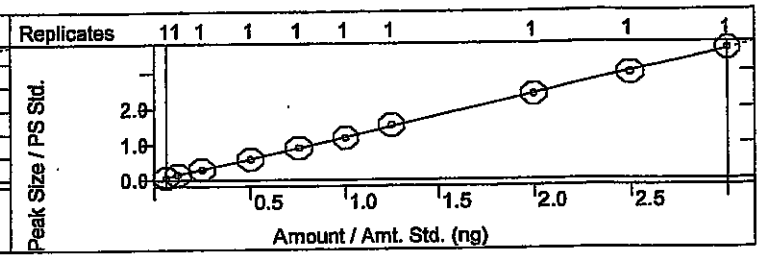
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



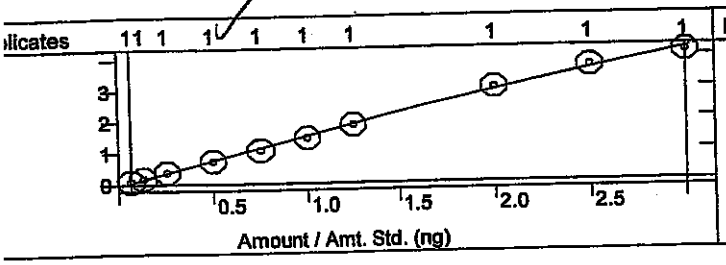
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



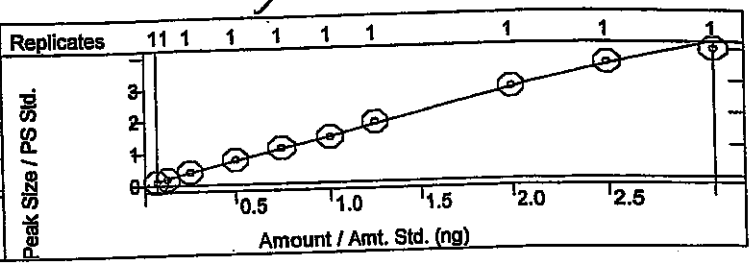
ılibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

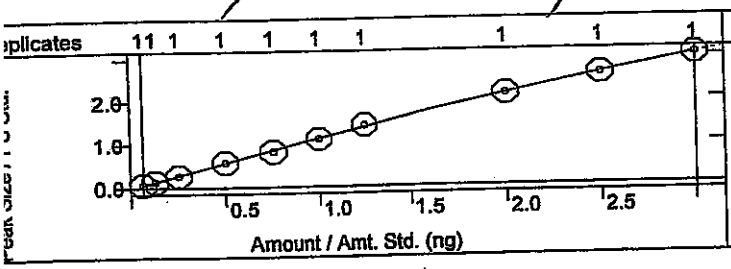
3-Dichlorobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



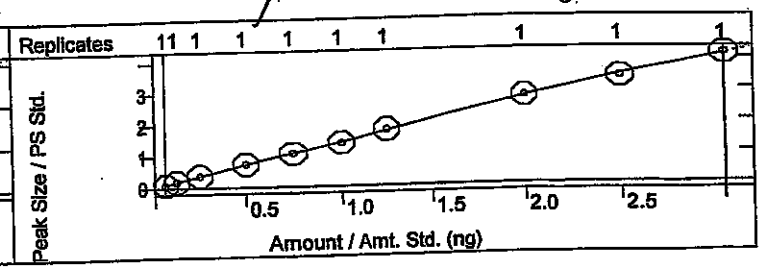
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



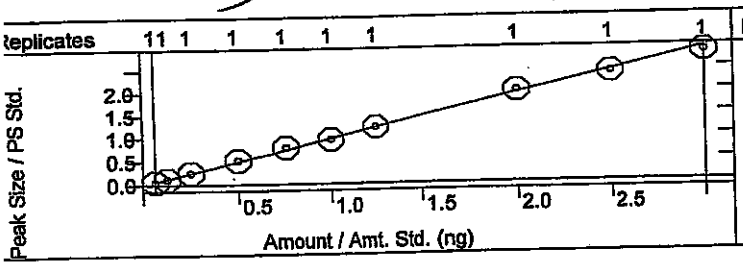
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



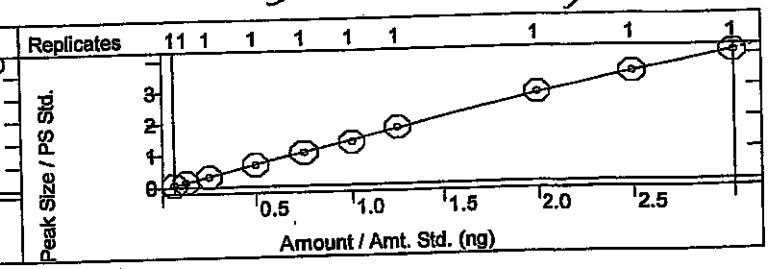
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



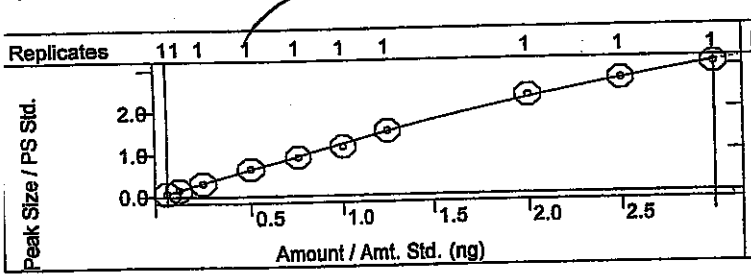
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



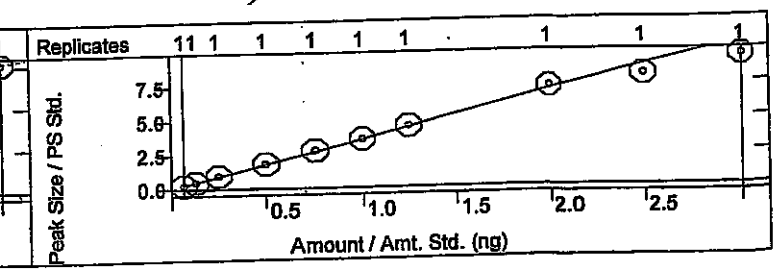
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

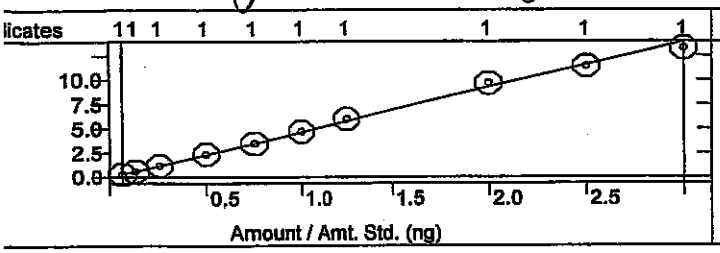


alibration Curves Report

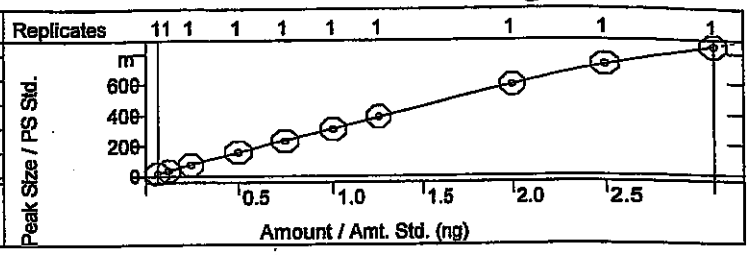
V dam 4/28/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

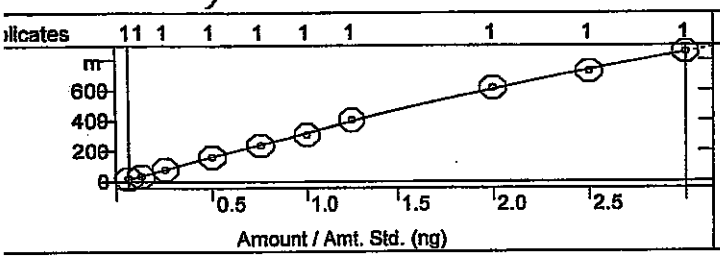
xachloroethane
irve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



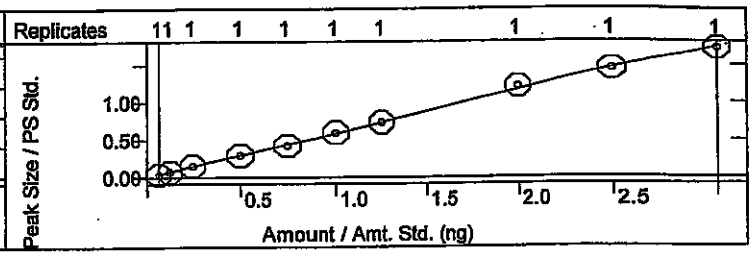
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



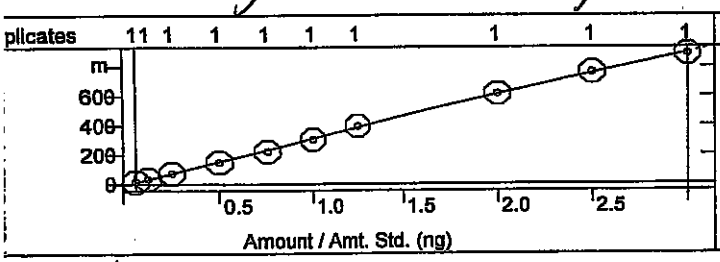
trobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



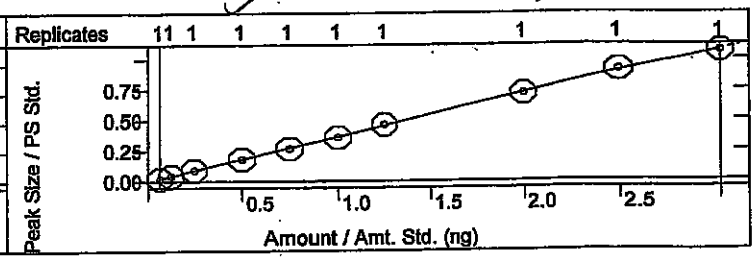
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



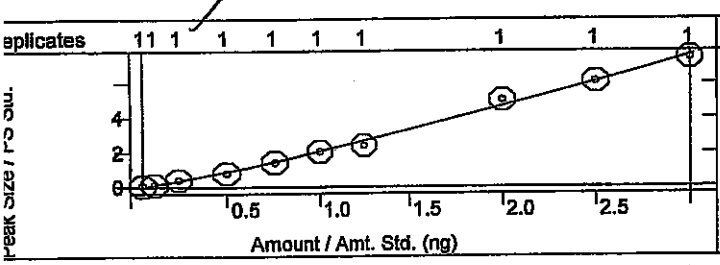
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



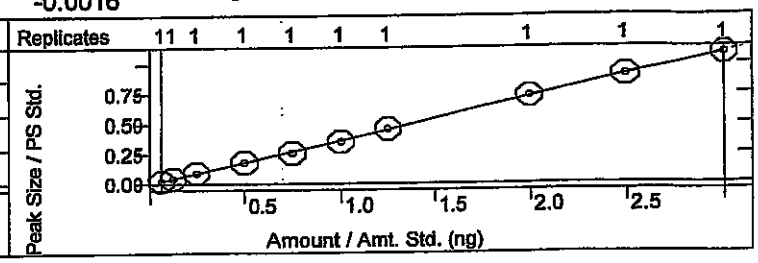
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



enzoic acid
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
= +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



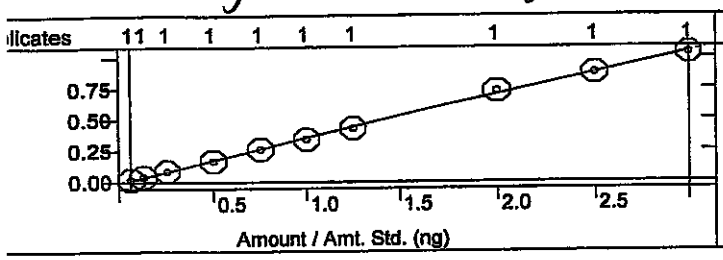
alibration Curves Report

v dlm 4/28/14

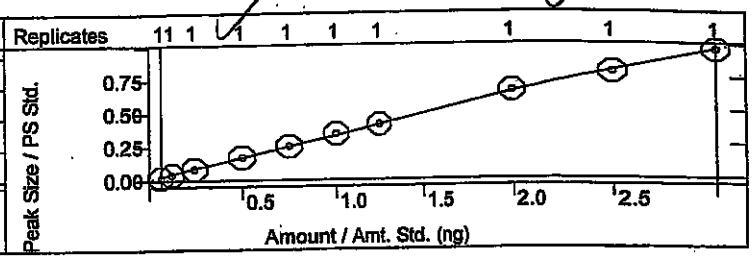
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

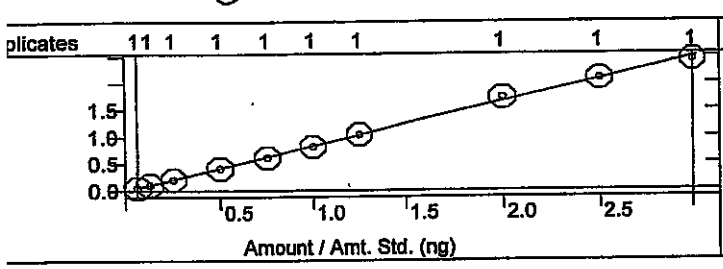
4-Dichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
y = -0.0055x2 +0.3668x -0.0082



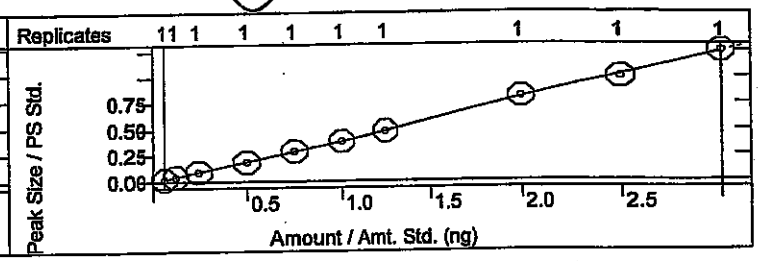
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



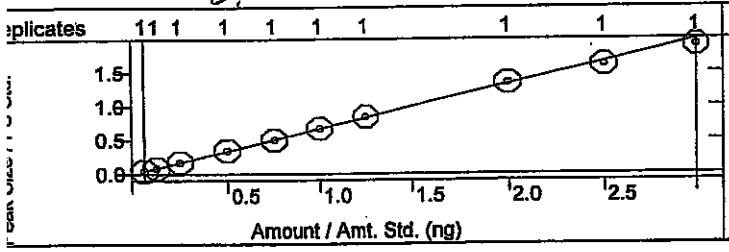
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



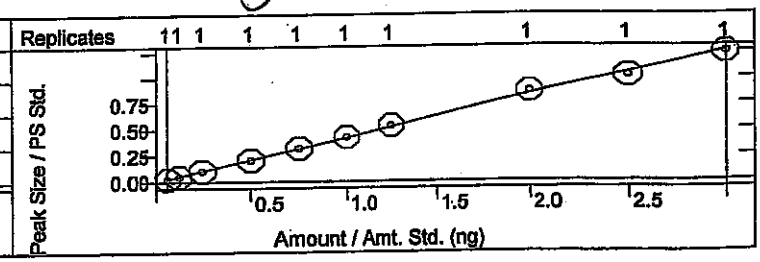
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



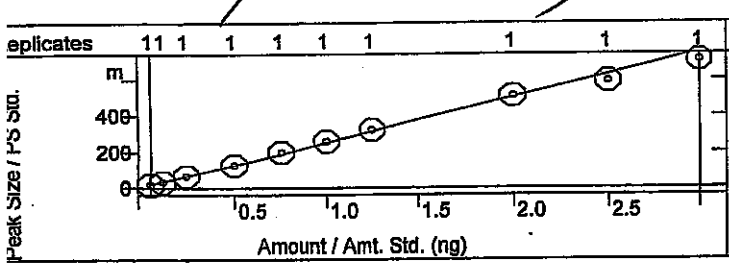
lexachlorobutadiene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



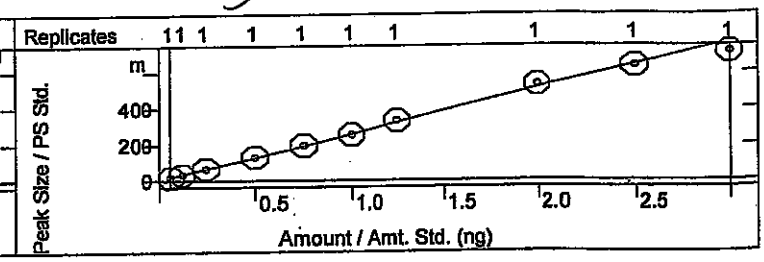
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



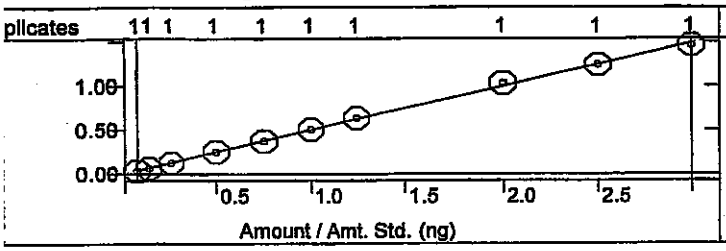
alibration Curves Report

4/20/17

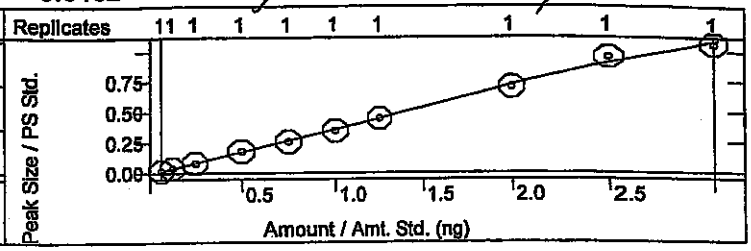
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-17

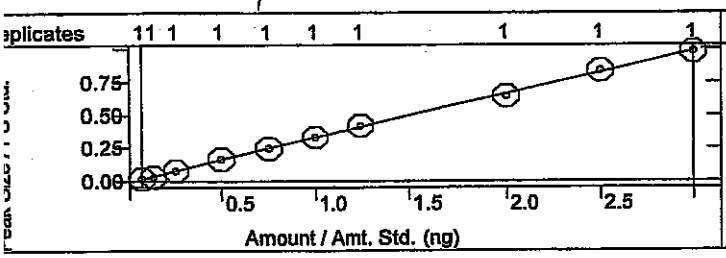
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



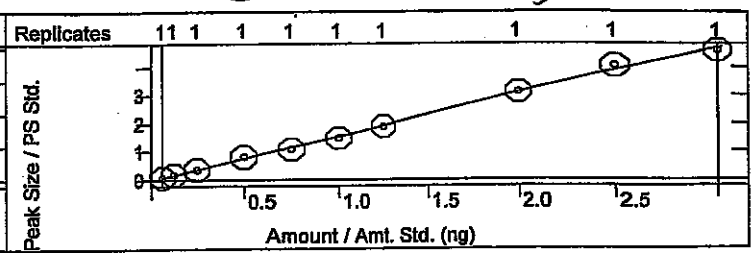
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



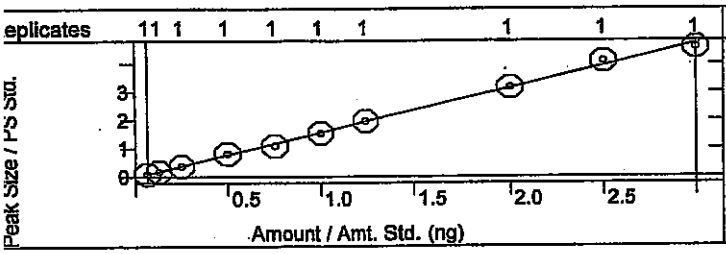
,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



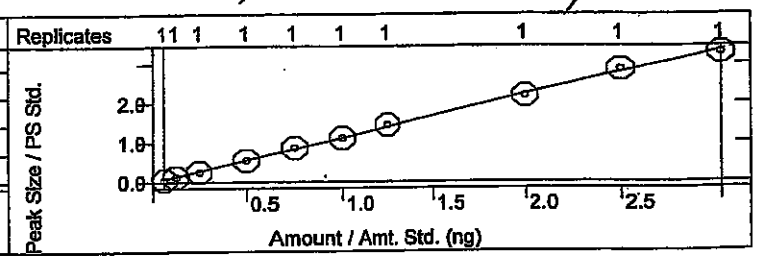
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



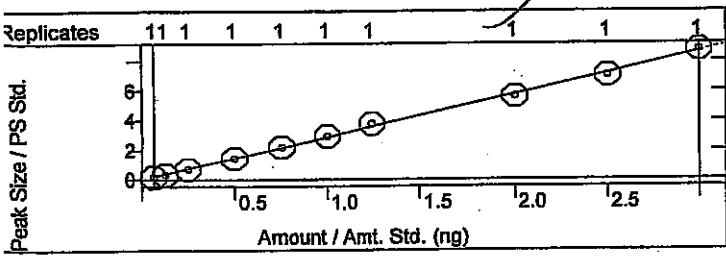
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
y = +1.5769x -0.0150



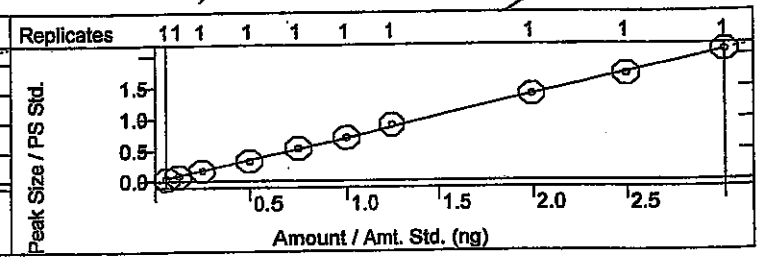
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



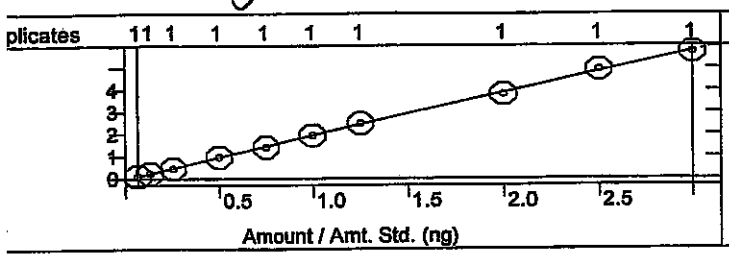
alibration Curves Report

J dm 4/28/14

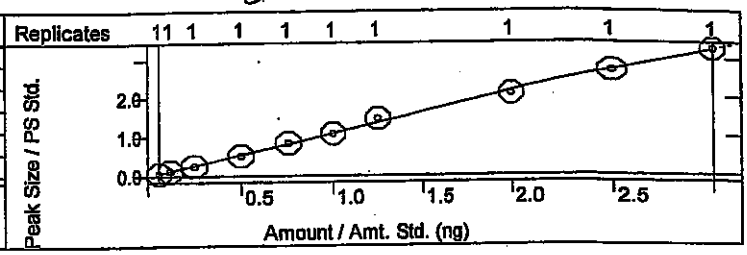
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4.28.14

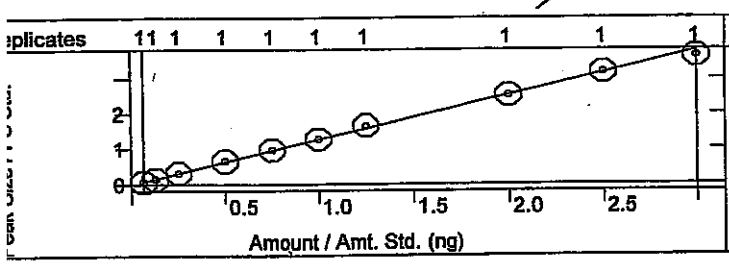
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



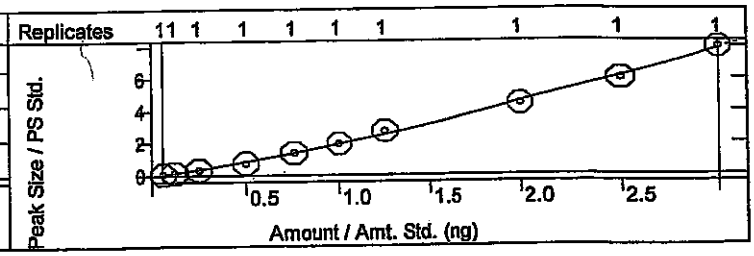
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



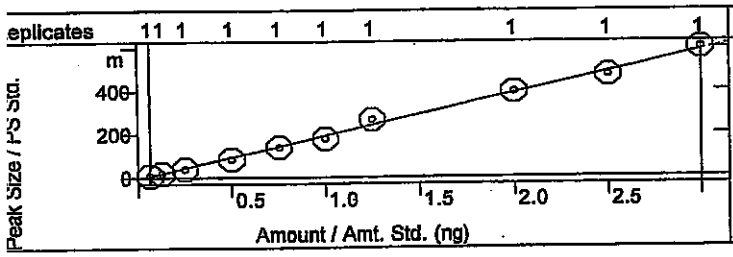
cenaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



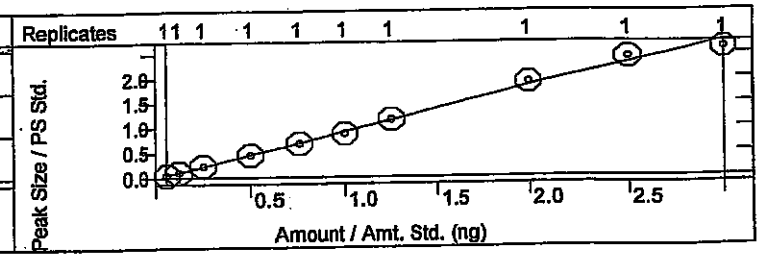
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



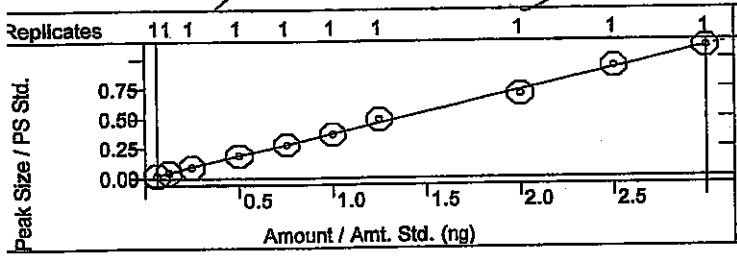
l-Nitrophenol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
= +0.1978x -0.0058



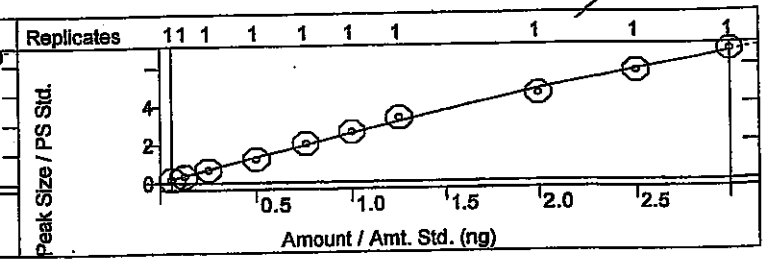
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



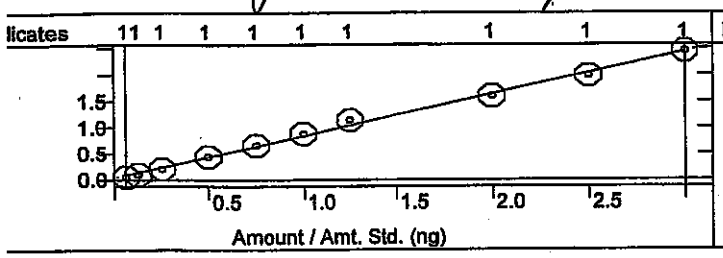
alibration Curves Report

J AMH 11/20/14

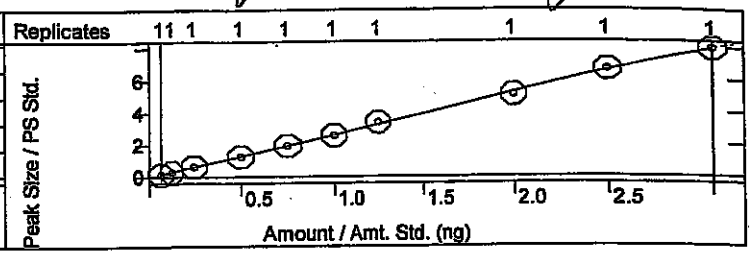
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4.28.14

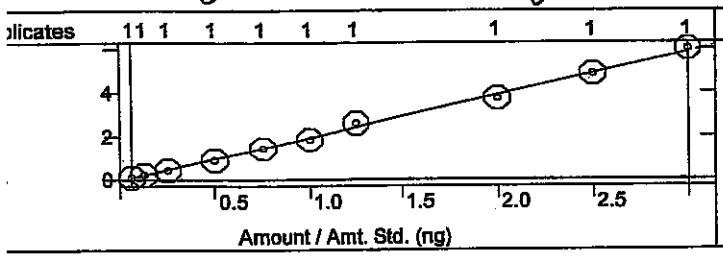
Chlorophenyl phenyl ether
irve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



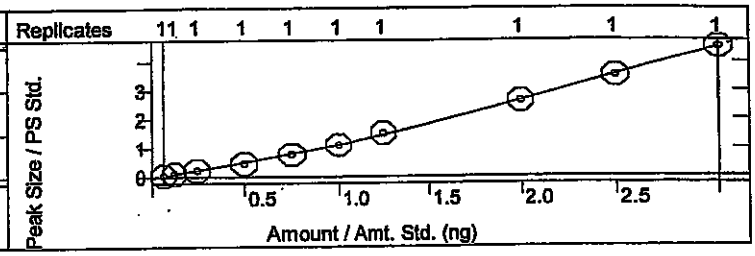
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



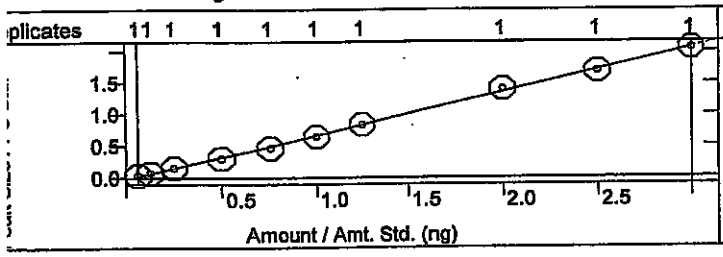
Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



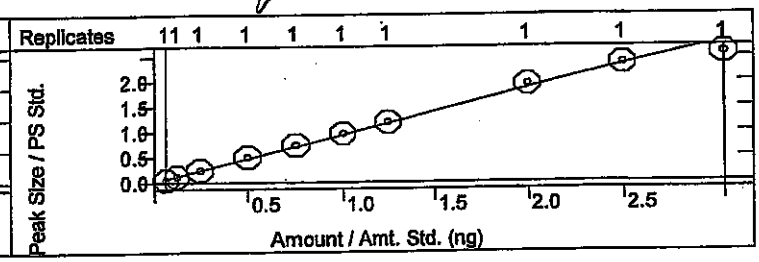
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



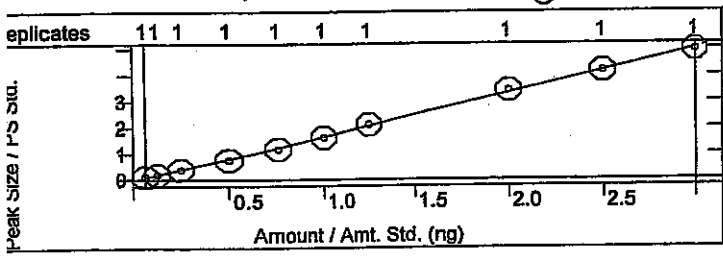
-Nitrosodiphenylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



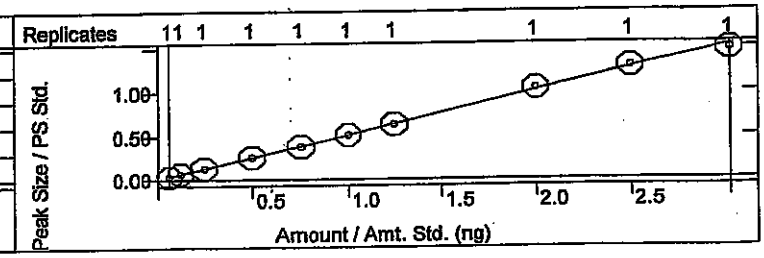
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



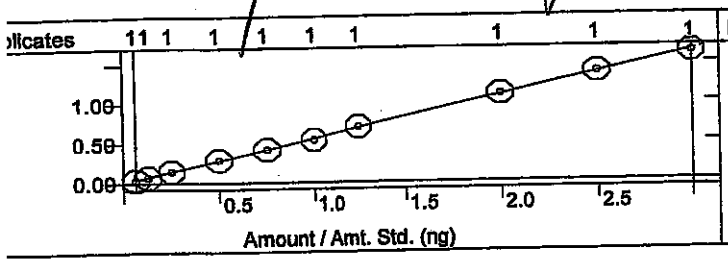
alibration Curves Report

VJdm 4/28/14

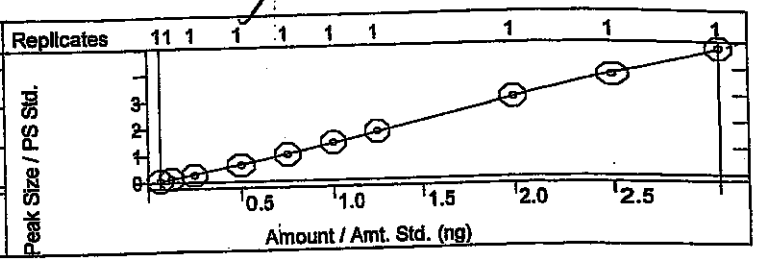
thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
s Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

JC 4-28-14

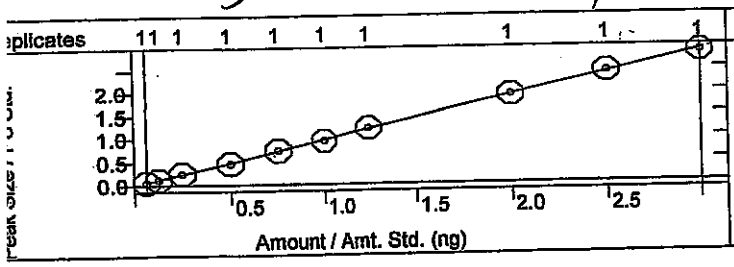
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



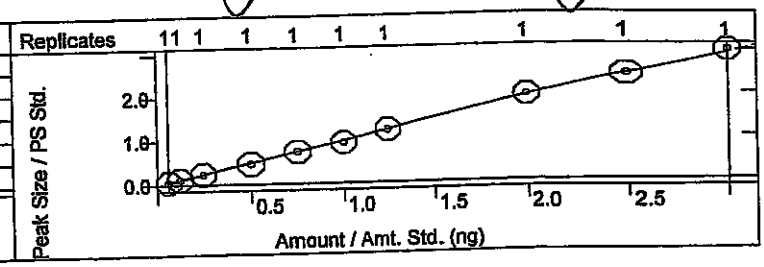
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



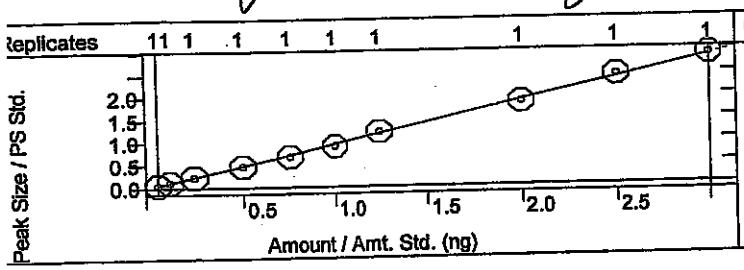
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



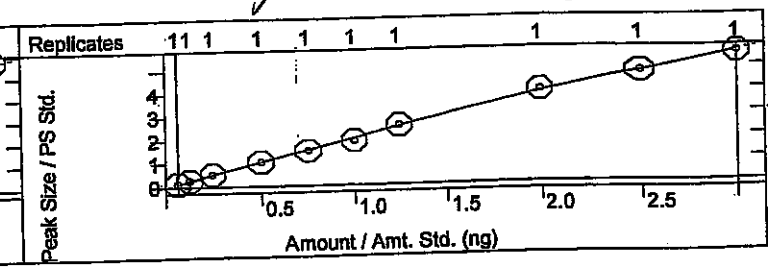
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



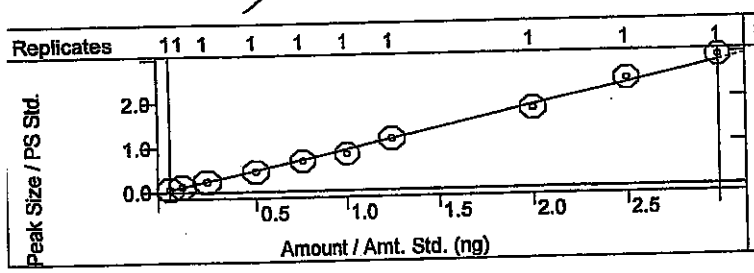
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



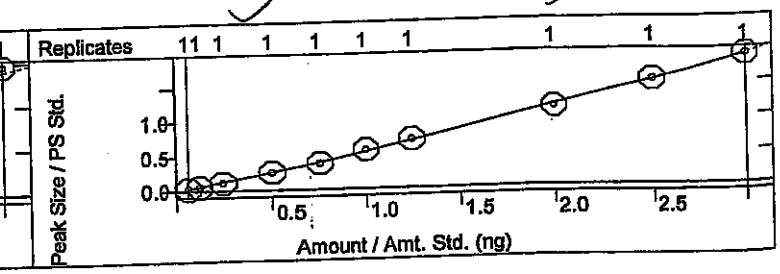
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



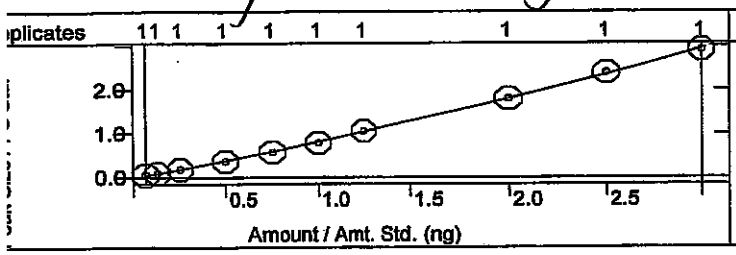
Calibration Curves Report

J Allen 4/28/14

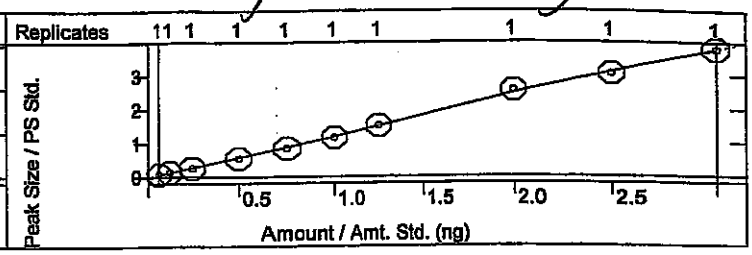
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

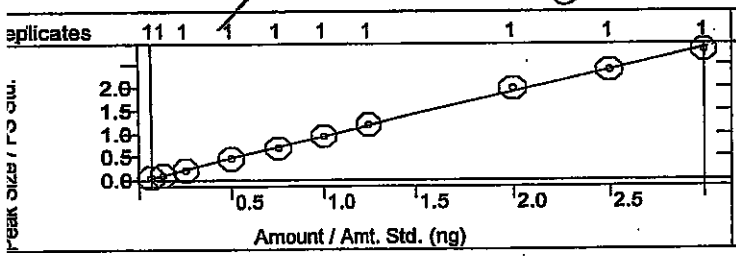
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



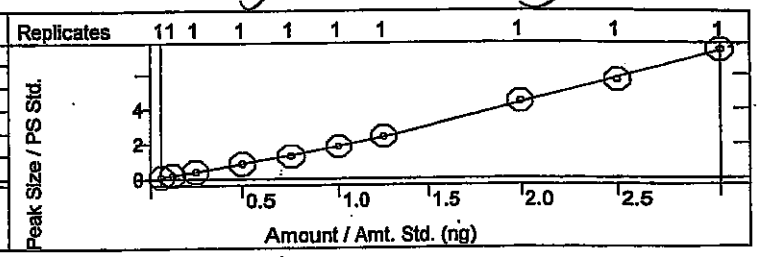
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



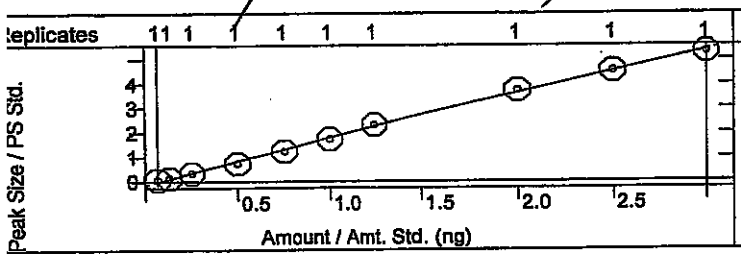
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



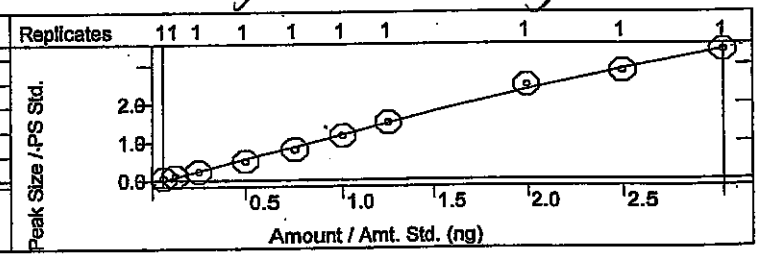
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



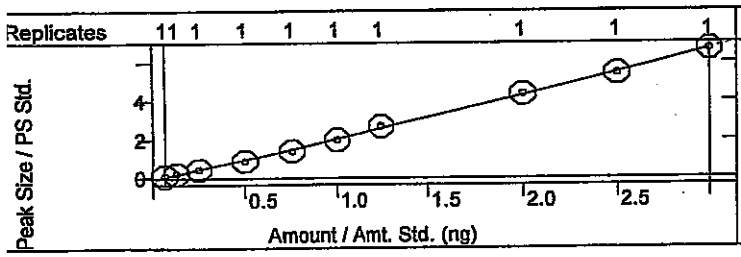
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9866x -0.1374



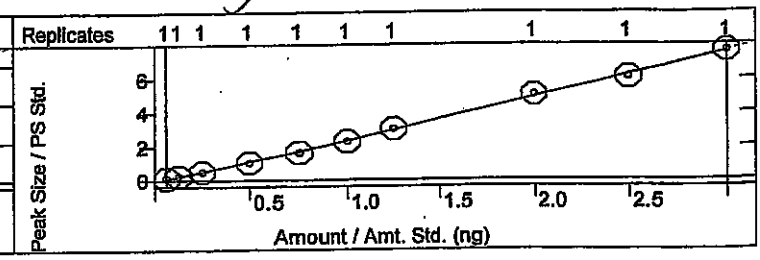
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



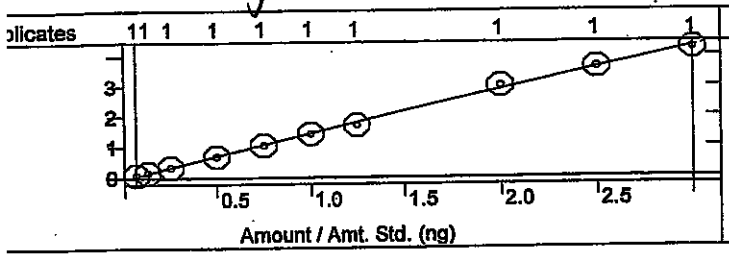
alibration Curves Report

/ dah 4/28/14

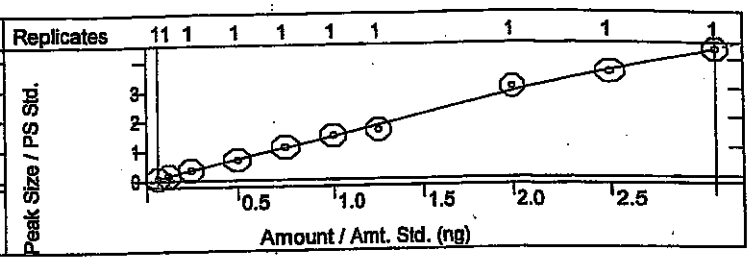
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4-24-14

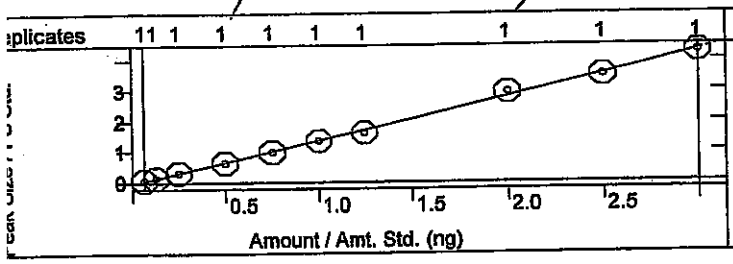
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



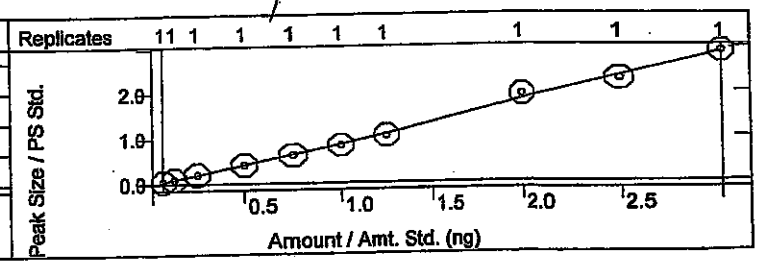
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4793x -0.0270



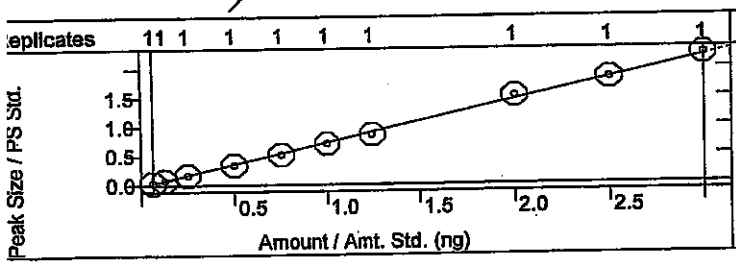
enzo[a]pyrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



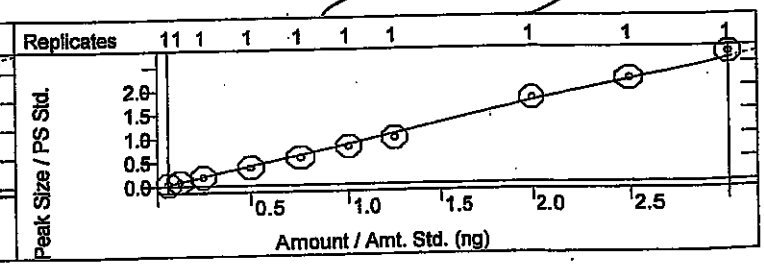
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dam 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

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JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dan, 4/28

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dah 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dlm 4/28/

JC 4.28.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/28/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

JE 4-24-14

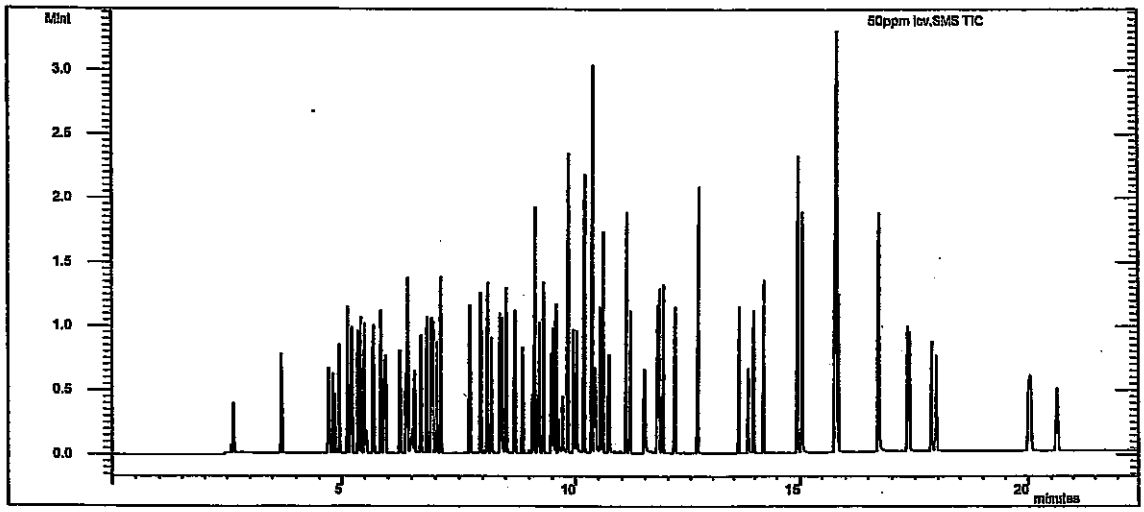
Compound	RRF	MinRRF	CI	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

arian Star Workstation - 8400 SampleList Fri Aug 22 08:25:41 2014

ampleList: C:\VarianWS\082114.smp

reated: Thu Aug 21 08:17:53 2014
lodified: Fri Aug 22 07:41:38 2014

****

JC 8.22.14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	30ppm	1	below	1	1.0
	Notes SV110-0592				
3	mb-14865	1	below	2	1.0
	Notes soil				
4	lcs-14865	1	below	3	1.0
	Notes soil				
5	1408893-001A	1	below	4	1.0
	Notes x1 soil				
6	1408893-002A	1	below	5	1.0
	Notes x1 soil				
7	1408893-003A	1	below	6	1.0
	Notes x1 soil				
8	1408994-001A	1	below	7	1.0
	Notes x1 soil				
9	1408994-001Ams	1	below	8	1.0
	Notes x1 soil				
10	handrun 1408994-001Amsd	1	below	9	1.0
	Notes x1 soil				
11	1408994-002A	1	below	10	1.0
	Notes x1 soil, fv=2ml				
12	rrx10 1408898-001C	1	below	11	1.0
	Notes x1 AQ				
13	1408899-001C	1	below	12	1.0
	Notes x1 AQ				
14	rrx10 1408901-001C	1	below	13	1.0
	Notes x1 AQ				
15	rrx50 1408898-001C	1	below	14	1.0
	Notes x10 AQ				
16	1408901-001C	1	below	15	1.0
	Notes x10 AQ				
17	mb-14882	1	below	16	1.0
	Notes TLCP				
18	1408890-001A	1	below	17	1.0
	Notes x1 TLCP				
19	1408890-001Ams	1	below	18	1.0
	Notes x1 TLCP				
20	1408890-001Amsd	1	below	19	1.0
	Notes x1 TLCP				
21	rrx5 1408898-001D	1	below	20	1.0
	Notes x1 TLCP AQ				
22	1408899-001D	1	below	21	1.0
	Notes x1 TLCP AQ				
23	1408900-001A	1	below	22	1.0
	Notes x1 TLCP				
24	dftpp tune (2)	1	below	23	1.0
	Notes sv110-0601				
25	40ppm	1	below	24	1.0
	Notes sv110-0593				
26	lcs-14882	1	below	25	1.0
	Notes TCLP				
27	mb-14881	1	below	26	1.0
	Notes AQ				
28	lcs-14881	1	below	27	1.0
	Notes AQ				
29	lcsd-14881	1	below	28	1.0
	Notes AQ				
30	re ext — 1408A13-001D	1	below	29	1.0
	Notes x1 AQ				
31	1408A13-003D	1	below	30	1.0
	Notes x1 AQ				
32	re-ext — 1408A13-004D	1	below	31	1.0
	Notes x1 AQ				
33	1408A13-005D	1	below	32	1.0
	Notes x1 AQ				

Jam 8/22/14

	Notes x1 AQ				
35	1408A13-007D	1	below	34	1.0
	Notes x1 AQ				
36	1408A13-008D	1	below	35	1.0
	Notes x1 AQ				
37	1408A13-009D	1	below	36	1.0
	Notes x1 AQ				
38	1408A13-010D	1	below	37	1.0
	Notes x1 AQ				
39	1408A13-011D	1	below	38	1.0
	Notes x1 AQ				
40	1408A13-013D	1	below	39	1.0
	Notes x1 AQ				
41	1408A13-014D	1	below	40	1.0
	Notes x1 AQ				
42	1408914-001A	1	below	41	1.0
	Notes x1 soil				
43	1408914-003A	1	below	42	1.0
	Notes x1 soil				
44	1408914-007A	1	below	43	1.0
	Notes x1 soil				
45	mb-14892	1	below	44	1.0
	Notes x2 oil				
46	lcs-14892	1	below	45	1.0
	Notes x2 oil				
47	1408898-001C	1	below	46	1.0
	Notes x50 AQ				
48	1408898-001D	1	below	47	1.0
	Notes x5 TCLP AQ				

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\082114.rcl.

8-22-17

dam 8/22/14

Hall Environmental Analysis Laboratory — PREP BATCH REPORT

Extraction Method 3540

Prep Start Date: 8/20/2014 10:32:50 Time Started: 12:00

Prep End Date: Time Ended: 6:00

Reviewed By: 8.21.14

Prep Batch ID: 14865 Prep Code: 8270SOX_PR Method No: 3540

Technician: Steve Crandell

Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

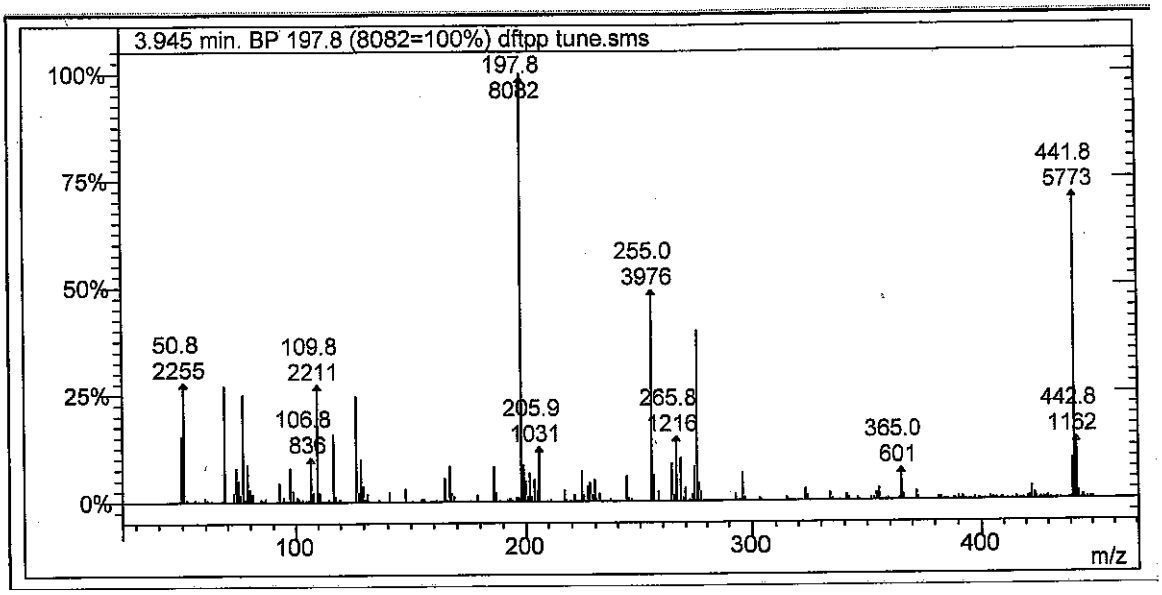
Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14865		Soil			30	0	0	1	0.033	8/20/2014	
LCS-14865		Soil			30	0	0	1	0.033	8/20/2014	
1408893-001A	FFOR-CF-0043	MeOH (Soil)			29.93	0	0	1	0.033	8/20/2014	
1408893-002A	FFOR-CF-0044	MeOH (Soil)			30.18	0	0	1	0.033	8/20/2014	
1408893-003A	FFOR-CF-0045	MeOH (Soil)			30.24	0	0	1	0.033	8/20/2014	
1408900-001A	Seep	Soil			29.95	0	0	+10mL	0.033	8/20/2014	
1408914-001A	13-006(700) B1@20'	Soil			30.16	0	0	1	0.033	8/20/2014	
1408914-003A	13-006(700) B3@20'	Soil			29.98	0	0	1	0.033	8/20/2014	
~~1408914-004A~~ *	~~13-006(700) B4@20'~~	Soil	Client cancelled			0	0	1	0.033	8/20/2014	
1408914-006A	13-006(700) B6@15'	Soil			30.09	0	0	+10mL	0.033	8/20/2014	
1408914-007A	13-006(700) B7@20'	Soil			29.90	0	0	1	0.033	8/20/2014	
1408994-001A	FFOR-CF-0046	MeOH (Soil)			30.08	0	0	1	0.033	8/20/2014	
1408994-002A	FFOR-CF-0047	MeOH (Soil)			30.17	0	0	+7mL	0.033	8/20/2014	
1408994-001AMS		MeOH (Soil)			29.96	0	0	1	0.033	8/20/2014	
1408994-001AMSD		MeOH (Soil)			29.99	0	0	1	0.033	8/20/2014	

* deleted off workorder 8.20.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500	µL

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/21/2014

Injection Time: 8:20

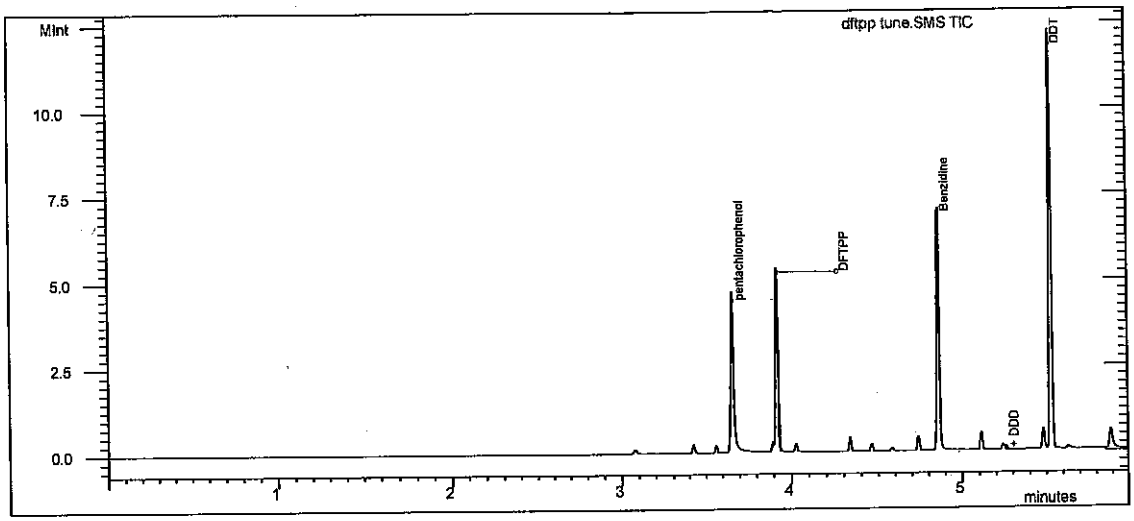
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	27.90	PASS
68	<2% of m/z 69	0.96	PASS
69	Present	27.06	PASS
70	<2% of m/z 69	0.05	PASS
127	10-80% of base peak	24.63	PASS
197	<2% of m/z 198	0.84	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.51	PASS
275	10-60% of base peak	39.79	PASS
365	>1% of base peak	7.44	PASS
441	Present and <m/z 443	66.70	PASS
442	>50% of m/z 198	71.43	PASS
443	15-24% of m/z 442	20.13	PASS

8.21.14

8/22/14

Degradation Report

Acquisition Date:	8/21/2014 8:20:59 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



8/21/14

Test Compound Name	RT	Area	#
DDT	5.530	3.238E6	4
Degradation Product			
Compound Name	**RT**	**Area**	**#**
DDD	5.262	12006	5
DDE	4.981	1075	6

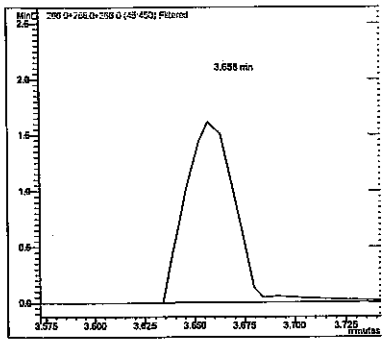
% Degradation of DDT : = .402

8/22/14

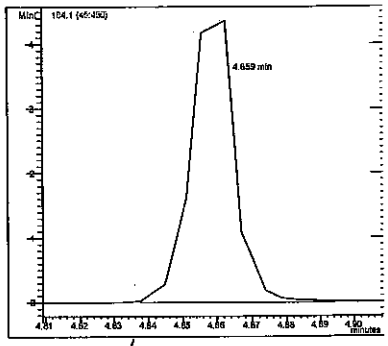
Tailing and Gaussian Factor Report

Acquisition Date: 8/21/2014 8:20:59 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.658 Area = 2.828E6



Benzidine
RT = 4.859 Area = 4.070E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.658	1.278	0.780
Benzidine	4.859	0.540	0.924

#	Compound Name	RT	Area
1	pentachlorophenol	3.658	2.828E6
3	Benzidine	4.859	4.070E6

JV 8.21.14

dam 8/22/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
30ppm	159822	5.18	507521	6.90	230097	9.50	428796	11.75	472982	15.77	599465	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JV 8.21.14

dlm 8/22/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\082114\30ppm.SMS Lab Sample ID: 30ppm

Instrument ID: ELMO Date Analyzed: 8/21/2014 Time Analyzed: 09:04

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	159822	5.18	507521	6.90	230097	9.50	428796	11.75	472982	15.77	599465	17.91
UPPER LIMIT	319644	5.68	1.015E6	7.40	460194	10.00	857592	12.25	945964	16.27	1.199E6	18.41
LOWER LIMIT	79911	4.68	253761	6.40	115049	9.00	214398	11.25	236491	15.27	299733	17.41
EPA SAMPLE NO												
mb-14865	110143	5.18	354313	6.90	161741	9.49	324749	11.74	366666	15.76	451855	17.91
lcs-14865	120397	5.18	390368	6.89	173921	9.49	327759	11.74	384330	15.75	462419 D	17.90 D ✓ spec
1408893-00	82677	5.18	268532	6.90	124950	9.50	229454	11.75	261534	15.76	311798	17.91
1408893-00	91948	5.18	289155	6.90	125410	9.50	244176	11.75	279343	15.77	319588	17.92
1408893-00	95000	5.18	321918	6.90	134121	9.49	283121	11.74	326264	15.76	371231	17.91
1408994-00	92659	5.18	299080	6.90	127644	9.50	256242	11.74	297799	15.76	331462	17.91
1408994-00	96683	5.18	310184	6.90	128682	9.50	275778	11.74	320979	15.76	350949	17.91
1408994-00	95575	5.18	305871	6.90	138593	9.49	293711	11.74	342559	15.76	380219	17.91
1408994-00	89085	5.18	301194	6.90	128562	9.50	272862	11.74	281817	15.76	310816 D	17.91 D ✓ spec
1408898-00	94685	5.18	308586	6.90	116013	9.49	227003	11.74	255688	15.76	287192 *	17.91
1408899-00	80511	5.18	269177	6.90	123043	9.49	257466	11.74	310206	15.76	355055	17.91
1408901-00 Not reporting	59718 D	5.18 D	226314 D	6.90 D	130540 D	9.50 D	200220 D	11.75 D	246352	15.77	394722	17.92
1408898-00	106805	5.18	356872	6.90	140723	9.50	280656	11.75	347199	15.76	418439	17.92
1408901-00	101525	5.18	337585	6.91	148931	9.51	306426	11.75	372556	15.77	492814	17.92
mb-14882	111504	5.18	363342	6.90	157895	9.50	327162	11.75	379035	15.76	473444	17.91
1408890-00	89956	5.18	294965	6.90	126893	9.50	233763	11.75	276455	15.76	333654	17.92
1408890-00	98081	5.18	324339	6.90	131547	9.50	274025	11.74	317544	15.76	382646	17.91

*= NMR

8-22-14

Adam 8/22/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1408890-00	96899	5.18	312118	6.90	133353	9.50	271562	11.75	293230	15.76	346977	17.91
1408898-00	81055	5.18	278664	6.90	128910	9.50	265536	11.75	334635	15.76	409196	17.92
1408899-00	67534 *	5.18	235716 *	6.90	106580 *	9.49	227854	11.74	278118	15.75	335626	17.90
1408900-00	92422	5.18	308198	6.90	138653	9.50	289056	11.75	320573	15.76	365508	17.91

X = NMR

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC 8.22.14

dam 8/22/14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/21/2014 Time: 9:04

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\30ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.838	0.050	30.00	35.75	-19.2	40.0	PASS	PASS
Pyridine	10.764	0.050	30.00	34.89	-16.3	40.0	PASS	PASS
2-Fluorophenol	1.120	0.050	30.00	29.27	2.4	40.0	PASS	PASS
Phenol-d5	1.074	0.050	30.00	29.63	1.2	40.0	PASS	PASS
Phenol	1.112	0.050	30.00	27.08	9.7	20.0	PASS	PASS
Aniline	3.680	0.050	30.00	27.10	9.7	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.923	0.050	30.00	27.79	7.4	40.0	PASS	PASS
2-Chlorophenol	1.172	0.050	30.00	29.43	1.9	40.0	PASS	PASS
1,3-Dichlorobenzene	1.475	0.050	30.00	29.18	2.7	40.0	PASS	PASS
1,4-Dichlorobenzene	1.483	0.050	30.00	30.92	-3.1	20.0	PASS	PASS
Benzyl alcohol	1.159	0.050	30.00	30.38	-1.3	40.0	PASS	PASS
1,2-Dichlorobenzene	1.422	0.050	30.00	29.97	0.1	40.0	PASS	PASS
2-Methylphenol	0.967	0.050	30.00	29.64	1.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.174	0.050	30.00	25.34	15.5	40.0	PASS	PASS
3+4-Methylphenol	1.111	0.050	30.00	26.44	11.9	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.438	0.050	30.00	28.96	3.5	40.0	PASS	PASS
Hexachloroethane	4.630	0.050	30.00	29.91	0.3	40.0	PASS	PASS
Nitrobenzene-d5	0.315	0.050	30.00	30.16	-0.5	40.0	PASS	PASS
Nitrobenzene	0.320	0.050	30.00	29.66	1.1	40.0	PASS	PASS
Isophorone	0.657	0.050	30.00	33.58	-11.9	40.0	PASS	PASS
2-Nitrophenol	0.312	0.050	30.00	30.19	-0.6	20.0	PASS	PASS
2,4-Dimethylphenol	0.352	0.050	30.00	28.90	3.7	40.0	PASS	PASS
Benzoic acid	2.117	0.050	30.00	31.76	-5.9	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.397	0.050	30.00	32.97	-9.9	40.0	PASS	PASS
2,4-Dichlorophenol	0.355	0.050	30.00	30.23	-0.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.323	0.050	30.00	29.30	2.3	40.0	PASS	PASS
Naphthalene	0.852	0.050	30.00	30.68	-2.3	40.0	PASS	PASS
4-Chloroaniline	0.381	0.050	30.00	30.23	-0.8	40.0	PASS	PASS
Hexachlorobutadiene	0.640	0.050	30.00	28.74	4.2	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.410	0.050	30.00	29.33	2.2	20.0	PASS	PASS
2-Methylnaphthalene	0.236	0.050	30.00	28.05	6.5	40.0	PASS	PASS
1-Methylnaphthalene	0.226	0.050	30.00	26.36	12.1	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.440	0.050	30.00	26.03	13.2	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.313	0.050	30.00	26.67	11.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.296	0.050	30.00	26.86	10.5	40.0	PASS	PASS
2-Fluorobiphenyl	1.530	0.050	30.00	30.30	-1.0	40.0	PASS	PASS

8-21-14

8/22/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.547	0.050	30.00	29.81	0.6	40.0	PASS	PASS
2-Nitroaniline	1.072	0.050	30.00	28.84	3.9	40.0	PASS	PASS
Dimethyl phthalate	2.927	0.050	30.00	30.42	-1.4	40.0	PASS	PASS
2,6-Dinitrotoluene	0.686	0.050	30.00	29.86	0.5	40.0	PASS	PASS
Acenaphthylene	1.870	0.050	30.00	28.88	3.7	40.0	PASS	PASS
3-Nitroaniline	1.060	0.050	30.00	29.34	2.2	40.0	PASS	PASS
Acenaphthene	1.185	0.050	30.00	28.15	6.2	20.0	PASS	PASS
2,4-Dinitrophenol	2.227	0.050	30.00	35.68	-18.9	40.0	PASS	PASS
4-Nitrophenol	0.206	0.050	30.00	32.41	-8.0	40.0	PASS	PASS
Dibenzofuran	0.761	0.050	30.00	24.99	16.7	40.0	PASS	PASS
2,4-Dinitrotoluene	0.323	0.050	30.00	26.19	12.7	40.0	PASS	PASS
Diethyl phthalate	2.485	0.050	30.00	28.61	4.6	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.662	0.050	30.00	22.96	23.5	40.0	PASS	PASS
Fluorene	2.283	0.050	30.00	26.65	11.2	40.0	PASS	PASS
4-Nitroaniline	1.898	0.050	30.00	29.76	0.8	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.489	0.050	30.00	40.01	-33.4	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.660	0.050	30.00	30.30	-1.0	20.0	PASS	PASS
Azobenzene	0.993	0.050	30.00	31.63	-5.4	40.0	PASS	PASS
2,4,6-Tribromophenol	1.706	0.050	30.00	31.08	-3.6	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.515	0.050	30.00	30.14	-0.5	40.0	PASS	PASS
Hexachlorobenzene	0.518	0.050	30.00	27.90	7.0	40.0	PASS	PASS
Pentachlorophenol	1.502	0.050	30.00	33.33	-11.1	20.0	PASS	PASS
Phenanthrene	0.973	0.050	30.00	30.32	-1.1	40.0	PASS	PASS
Anthracene	1.006	0.050	30.00	31.13	-3.8	40.0	PASS	PASS
Carbazole	0.933	0.050	30.00	29.63	1.2	40.0	PASS	PASS
Di-n-butyl phthalate	2.192	0.050	30.00	32.14	-7.1	40.0	PASS	PASS
Fluoranthene	0.917	0.050	30.00	29.70	1.0	20.0	PASS	PASS
Benzidine	0.609	0.050	30.00	33.65	-12.2	40.0	PASS	PASS
Pyrene	0.816	0.050	30.00	31.01	-3.4	40.0	PASS	PASS
4-Terphenyl-d14	1.105	0.050	30.00	28.44	5.2	40.0	PASS	PASS
Butyl benzyl phthalate	1.000	0.050	30.00	31.81	-6.0	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.885	0.050	30.00	31.66	-5.5	40.0	PASS	PASS
Benz[a]anthracene	1.520	0.050	30.00	26.15	12.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.910	0.050	30.00	23.77	20.8	40.0	PASS	PASS
Chrysene	2.098	0.050	30.00	31.20	-4.0	40.0	PASS	PASS
Di-n-octyl phthalate	2.568	0.050	30.00	33.31	-11.0	20.0	PASS	PASS
Benzo(b)fluoranthene	1.509	0.050	30.00	31.57	-5.2	40.0	PASS	PASS
Benzo[k]fluoranthene	1.595	0.050	30.00	33.17	-10.6	40.0	PASS	PASS
Benzo[a]pyrene	1.466	0.050	30.00	32.76	-9.2	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.846	0.050	30.00	30.22	-0.7	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.872	0.050	30.00	36.21	-20.7	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.851	0.050	30.00	30.50	-1.7	40.0	PASS	PASS

JC 8-21-14

dam 8/22/14

8/21/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408994**
Date Reported:

LY

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408994

Lab ID: 1408994-001 **Collection Date:** 8/19/2014 8:07:00 AM
Client Sample ID: FFOR-CF-0046 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.2 ✓	0.25		mg/Kg	1	8/21/2014 7:57:06 AM	14879

Lab ID: 1408994-002 **Collection Date:** 8/19/2014 3:31:00 PM
Client Sample ID: FFOR-CF-0047 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	24 ✓	0.24		mg/Kg	1	8/21/2014 7:58:22 AM	14879

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **8/20/2014 4:06:57 P**
Prep End Date:

Analyst/Date: DD 8/20/14
QA'd/Date: JJ 8/21/14

Prep Batch ID **14879** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14879		Soil			1.0402	0	0	50	50.000	8/20/2014	
LCS-14879		Soil			1.9728	0	0	50	50.000	8/20/2014	
1408917-002A	20140818405	Soil			1.9802	0	0	50	50.000	8/20/2014	
1408917-002AMS		Soil			1.9849	0	0	50	50.000	8/20/2014	
1408917-002AMSD		Soil			1.0180	0	0	50	50.000	8/20/2014	
1408994-001A	FFOR-CF-0046	MeOH (Soil)			1.9801	0	0	50	50.000	8/20/2014	
1408994-002A	FFOR-CF-0047	MeOH (Soil)			1.0213	0	0	50	50.000	8/20/2014	
1408A04-001A	PDT-SE-1	Paint Chips			1.1998	0	0	50	50.000	8/20/2014	
1408A04-002A	PDT-SE-2	Paint Chips			1.1991	0	0	50	50.000	8/20/2014	
1408A04-003A	PDT-NW-1	Paint Chips			1.1998	0	0	50	50.000	8/20/2014	
1408A04-004A	PDT-NW-2	Paint Chips			1.1785	0	0	50	50.000	8/20/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 14879	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4707	Tubes 2/2		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1/3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4077	HCl 1/5		HCl /		HCl /
	Filters /		Filters /	MD 4729 ~~4684~~	Filters 3/3		Filters /		Filters /
				4084	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4019	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 -	Exp:	ST6010 - 14139	Exp: 3/31/15		Exp:
ST6020 -	Exp:	ST6010 - 257 14~~3~~ MD 8/20	Exp: 5/31/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawah	Digestion Block:
Position: D4	Position:
Therm ID: DBT-24	Therm ID:
Calibration Exp: 9/27/15	Calibration Exp:
Temp: 92.6 °C	Temp: °C
CF: -0 °C	CF: °C
Corr. Temp: =92.6°C	Corr. Temp: = °C
Analyst: MD	Analyst:
Date/Time: 8/20/14 16:25	Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL	Pipette No.:	Wt. DI (g):	Rm Temp (ºC):	Analyst:
	Acceptable range: 0.1225g - 0.1275g			
500µL	Pipette No.: P13	Wt. DI (g): 0.5017	Rm Temp (ºC): 21.7	Analyst: MD
	Acceptable range: 0.4900g - 0.5100g			
250µL	Pipette No.: P15	Wt. DI (g): 0.2517	Rm Temp (ºC): ↓	Analyst: ↓
	Pipette No.:	Wt. DI (g):	Rm Temp (ºC):	Analyst:

Analyst/Date: MD 8/20/14 QA'd/Date: DR 8/21/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20706

ICP-OES Analysis Summary

Data Imported By: EL 8/21/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: 1515

Results Data Set: 082114 B14864 Prep Batch ID: 14864

Calibration

	Standard ID
ST1	ST6010-14351
ST2	ST6010-14354
ST3 (CCV)	ST6010-14355
ST4	ST6010-14356

	Standard ID
ST5	ST6010-14357
ST6	ST6010-14368
ST7 (CCV CAT)	ST6010-14369
ST8	ST6010-14370

	Standard ID
ICV	ST6010-14362
ICV CAT	ST6010-14326
ICS ELEM	ST6010-14371
ICS	ST6010-14372

Internal Standard

Standard ID: ST6010-14376

2% Nitric Acid

Reagent ID: 1393

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-14257	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 50µL Wt DI (g): 0.0509 Rm Temp (°C): 21.5 Analyst: EL

Pipette No: P14 Spike Volume: 100µL Wt DI (g): 0.1002 Rm Temp (°C): 21.5 Analyst: EL

Pipette No: P30 Spike Volume: 500µL Wt DI (g): 0.5060 Rm Temp (°C): 21.5 Analyst: EL

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0111 Rm Temp (°C): 21.5 Analyst: EL

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery
AS	LCS-14870	0.50333		0.5		100.67

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result: _____ mg/L

Analyst/Date: EL 8/21/14 Qa'd by/Date: JS 8/21/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: JS and LL.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Sample Information Detail Report
Document Name: 082114 B14864

File Description
Hall Design

Parameters Common to All Samples

Batch ID	082114 B14864
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14864	MBLK
2	302	LCS-14864	LCS
3	303	LCSD-14864 (IDOC1-E	LCSD
4	304	IDOC2-ELS	LCS
5	305	IDOC3-ELS	LCS
6	306	IDOC4-ELS	LCS
7	307	MB-14879	MBLK
8	308	LCS-14879	LCS
9	309	MB-14870	MBLK
10	310	LCS-14870	LCS
11	311	1408890-001A	SAMP
12	312	1408900-001A	SAMP
13	313	1408900-001AMS	MS
14	314	1408900-001AMSD	MSD
15	315	1408994-001A	SAMP
16	316	1408994-~~001A~~ 002A	SAMP
17	317	1408917-002A	SAMP
18	318	1408917-002AMS	MS
19	319	1408917-002AMSD	MSD
20	320	1408A04-001A	SAMP
21	321	1408A04-002A	SAMP
22	322	1408A04-003A	SAMP
23	323	1408A04-004A	SAMP
25	324	1408917-002A	SAMP
26	325	1408917-002AMS	MS
27	326	1408917-002AMSD	MSD
28	327	1408917-002APS	PS

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_TCLP		
2	METALS_TCLP	Recovery 1 of 1	
3	METALS_TCLP	Recovery 1 of 1	
4	METALS_TCLP		
5	METALS_TCLP		
6	METALS_TCLP		
7	METALS_SOIL		
8	METALS_SOIL	Recovery 1 of 7	
9	METALS_TCLP		
10	METALS_TCLP	Recovery 1 of 9	
11	METALS_TCLP		
12	METALS_TCLP		
13	METALS_TCLP	Recovery 1 of 12	
14	METALS_TCLP	Recovery 1 of 12	
15	METALS_SOIL		
16	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL	Recovery 1 of 17	
19	METALS_SOIL	Recovery 1 of 17	
20	METALS_SOIL		
21	METALS_SOIL		
22	METALS_SOIL		
23	METALS_SOIL		
25	METALS_SOIL		
26	METALS_SOIL		

27	METALS_SOIL
28	METALS_SOIL

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
25			
26			
27			
28			

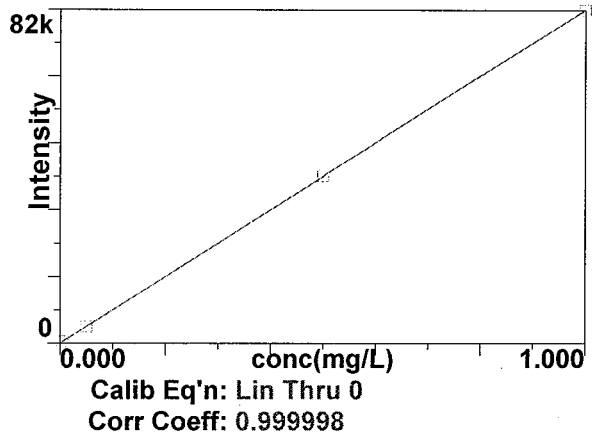
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
1	1		Calib Blank 1	Applied
2	408		ST1	Applied
3	409		ST2	Applied
4	2		ST3	Applied
5	410		ST4	Applied
6	413		ST5	Applied
7	411		ST6	Applied
8	3		ST7	Applied
9	412		ST8	Applied
10	401	QC	ICV	QC Passed
11	402	QC	ICV CAT	QC Passed
12	1	QC	ICB	QC Passed
13	408	QC	PQL CHECK	QC Passed
14	403	QC	ICS ELEM	QC Failed
15	404	QC	ICS	QC Failed
16	301		MB-14864	Analyzed
17	302		LCS-14864	Analyzed
18	303		LCSD-14864 (IDOC1-ELS)	Analyzed
19	304		IDOC2-ELS	Analyzed
20	305		IDOC3-ELS	Analyzed
21	306		IDOC4-ELS	Analyzed
22	307		MB-14879	Analyzed
23	308		LCS-14879	Analyzed
24	309		MB-14870	Analyzed
25	310		LCS-14870	Analyzed
26	2	QC	CCV	QC Passed
27	1	QC	CCB	QC Passed
28	3	QC	CCV CAT	QC Passed
29	311		1408890-001A	Analyzed
30	312		1408900-001A	Samp Limit Failed
31	313		1408900-001AMS	Analyzed
32	314		1408900-001AMSD	Analyzed
33	315		1408994-001A	Samp Limit Failed
34	316		1408994-~~001A~~ 002A	Samp Limit Failed
35	317		1408917-002A	Samp Limit Failed
36	318		1408917-002AMS	Analyzed
37	319		1408917-002AMSD	Analyzed
38	201		1408917-002APS	Analyzed
39	2	QC	CCV	QC Passed
40	1	QC	CCB	QC Passed
41	3	QC	CCV CAT	Analyzed
42	320		1408A04-001A	Samp Limit Failed
43	321		1408A04-002A	Analyzed
44	322		1408A04-003A	Samp Limit Failed
45	323		1408A04-004A	Samp Limit Failed
46	324		1408917-002A	Samp Limit Failed
47	325		1408917-002AMS	Analyzed
48	326		1408917-002AMSD	Analyzed
49	327		1408917-002APS	Analyzed
50	2	QC	CCV	QC Passed
51	1	QC	CCB	QC Passed
52	3	QC	CCV CAT	
53	7	QC	DI RINSE	QC Passed

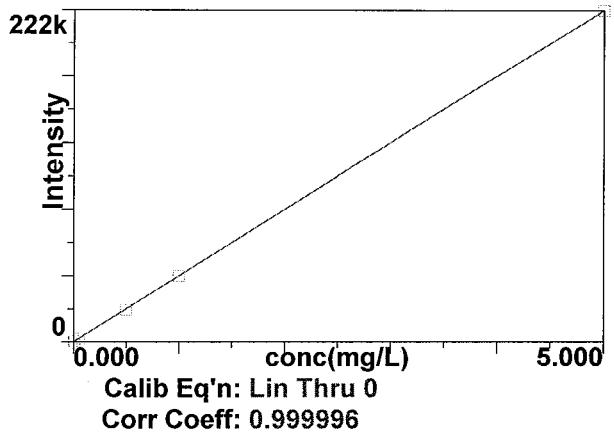
Method: ISIS 080714 6010SOIL
Result: 082114 B14864

Ag 328.068



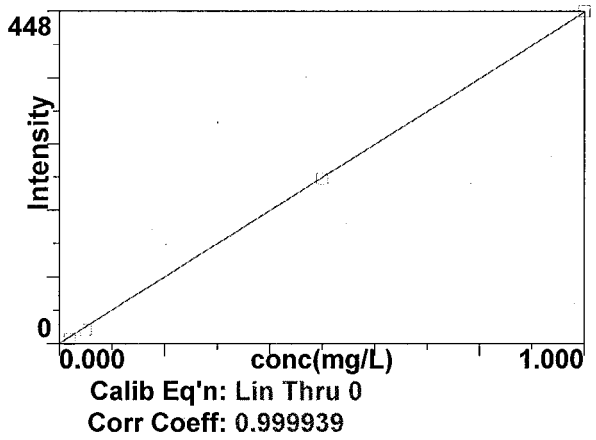
1

Al 396.153



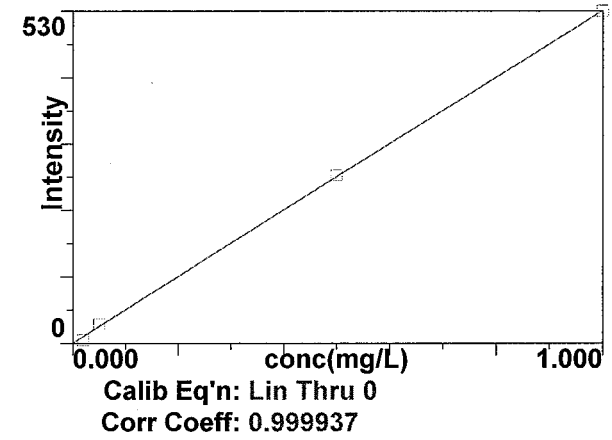
2

As 188.979



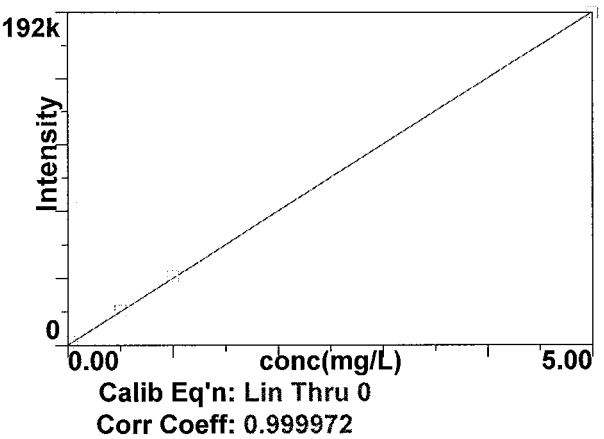
3

As 193.696



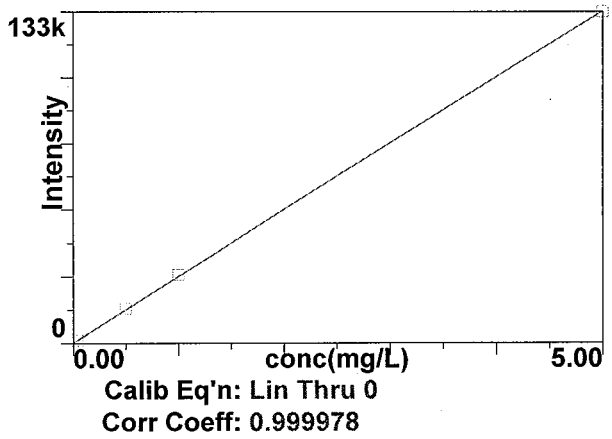
4

B 249.772



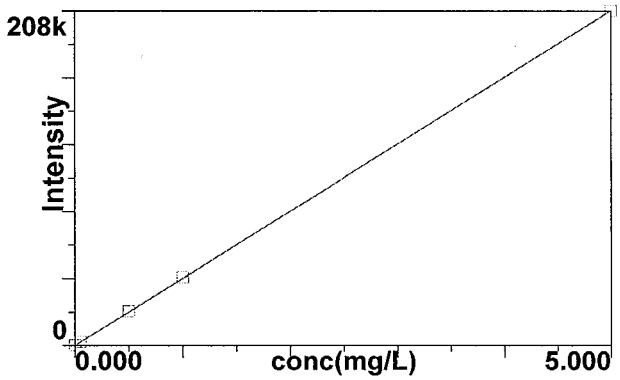
5

B 249.677



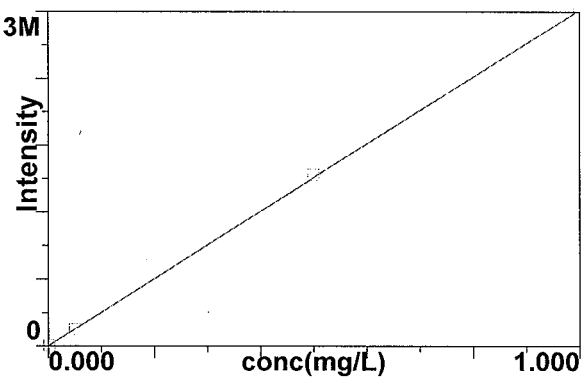
6

Ba 233.527



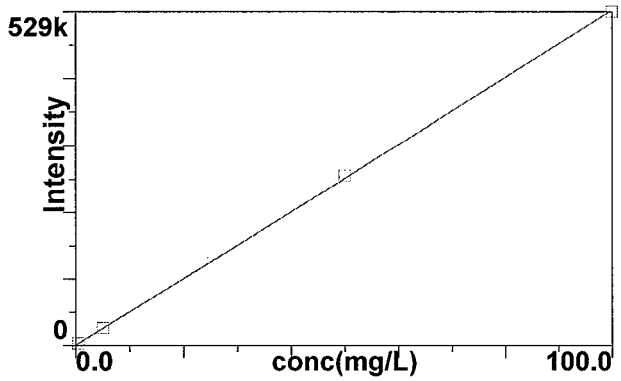
7

Be 313.107



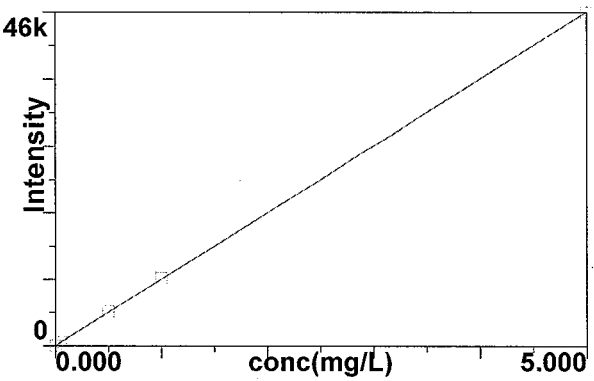
8

Ca 317.933



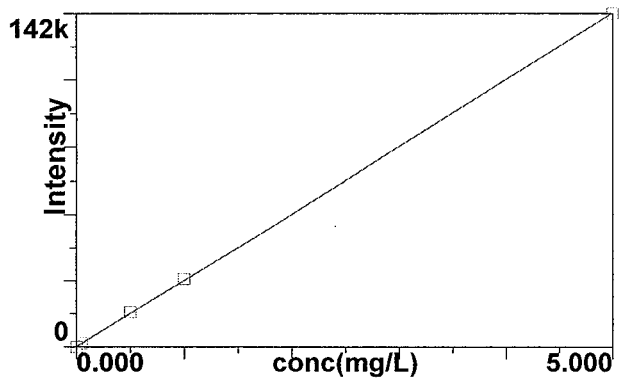
9

Cd 228.802



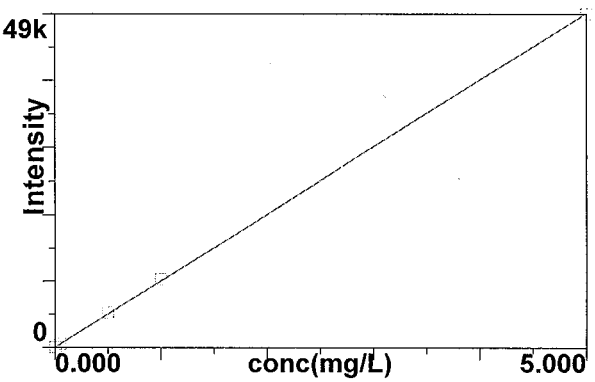
10

Cd 226.502



11

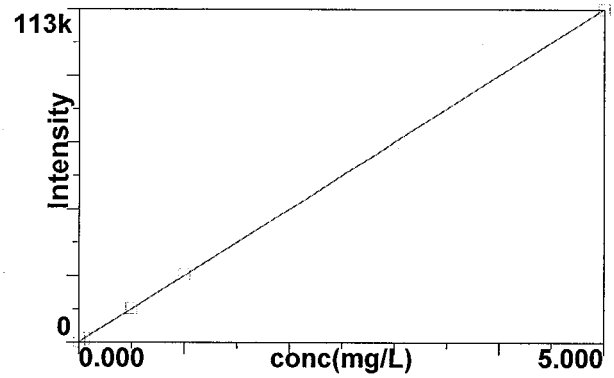
Co 228.616



12

Method: ISIS 080714 6010SOIL
Result: 082114 B14864

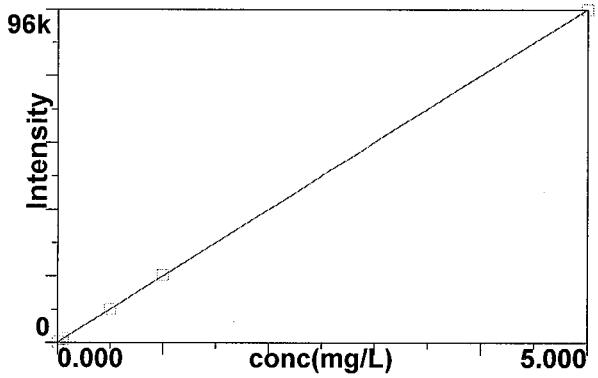
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

13

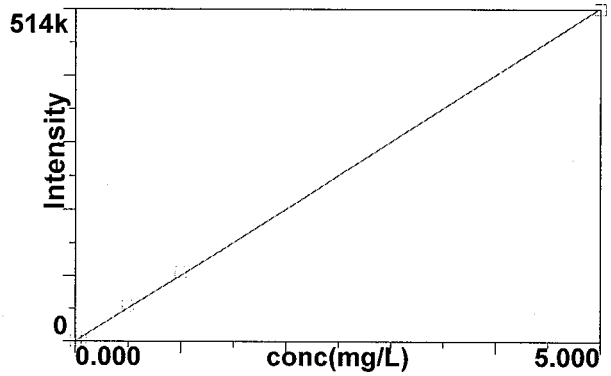
Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

14

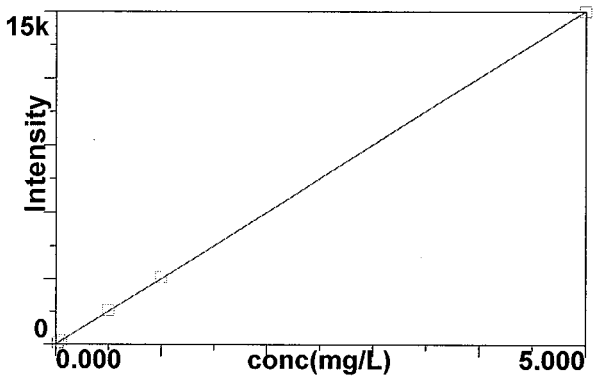
Cu 324.752



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999933

15

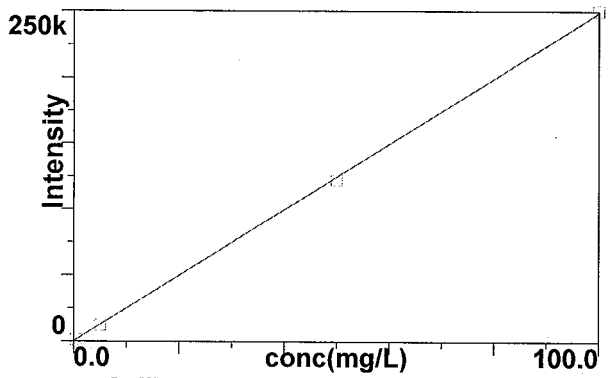
Fe 238.204



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999979

16

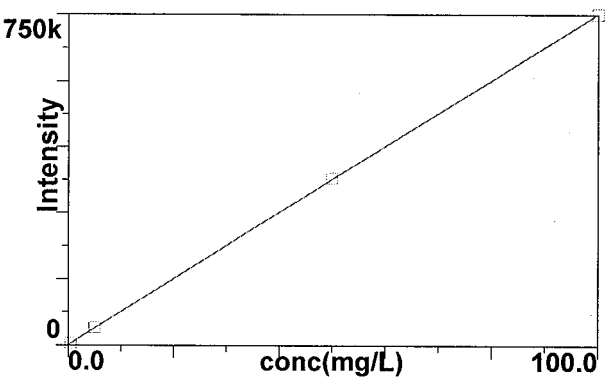
K 766.490



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999955

17

Mg 285.213

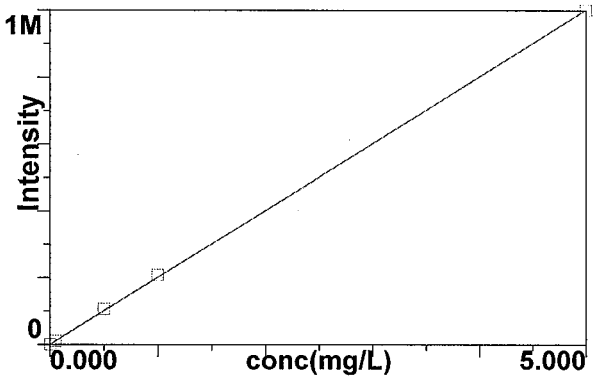


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

18

Method: ISIS 080714 6010SOIL
Result: 082114 B14864

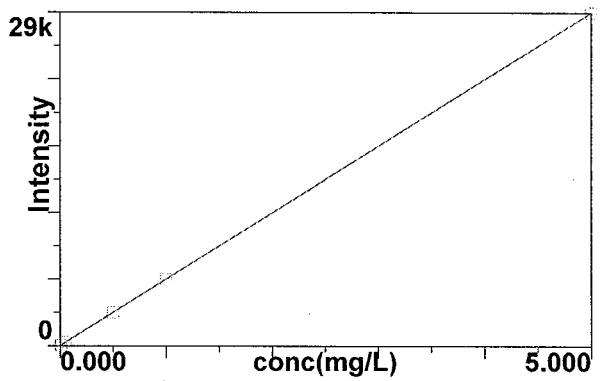
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999963

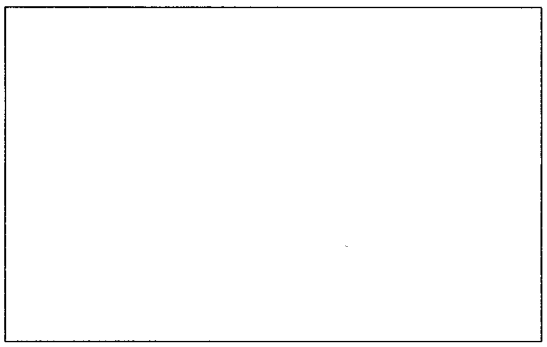
19

Mo 202.031



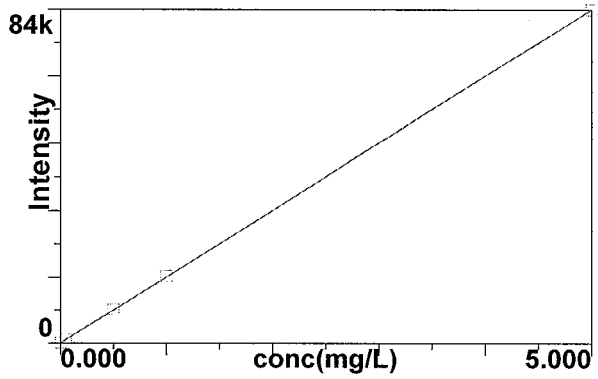
Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

20



21

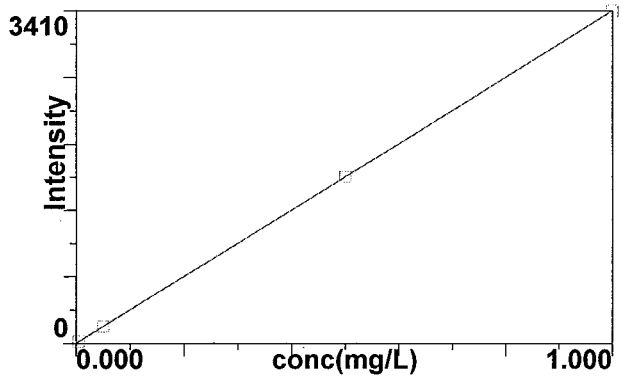
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

22

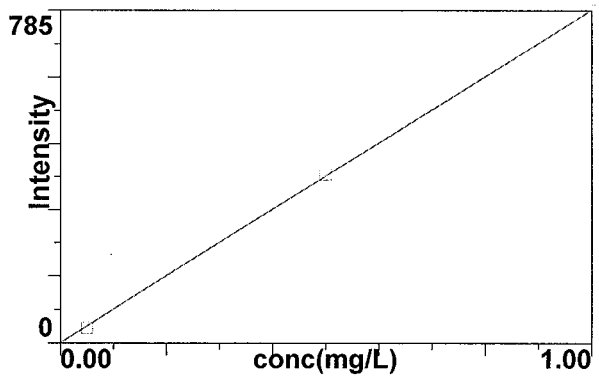
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

23

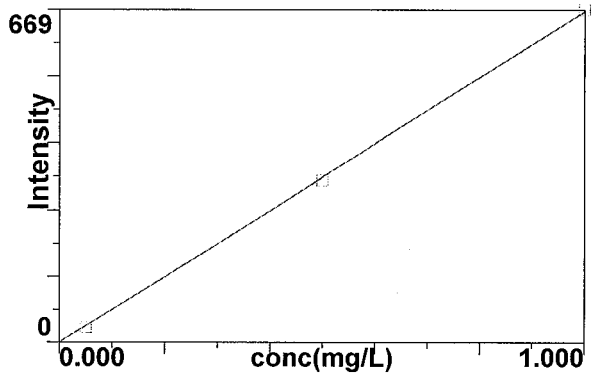
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999978

24

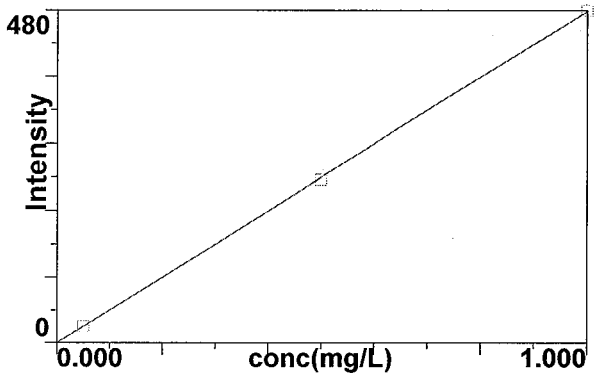
Sb 206.836



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999940

25

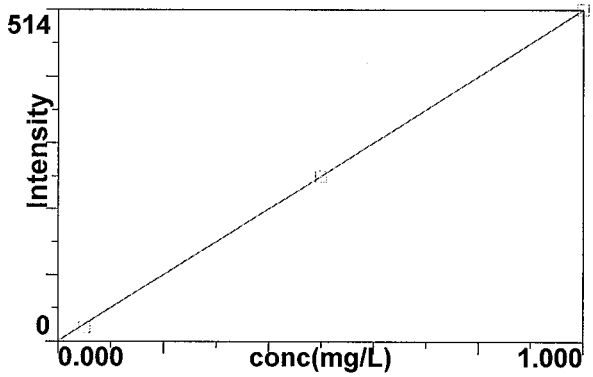
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999978

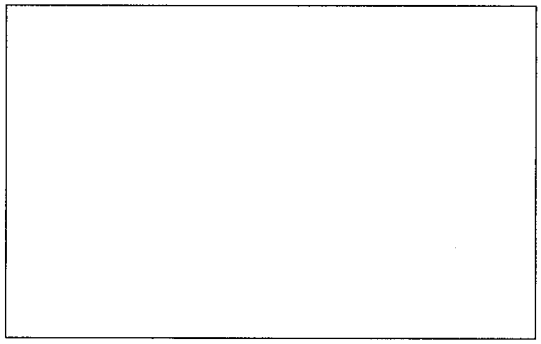
26

Se 196.026



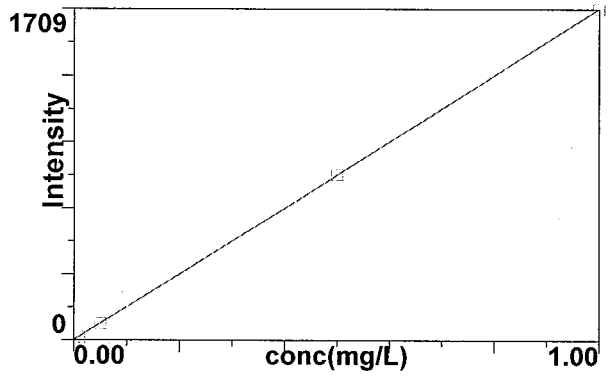
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999967

27



28

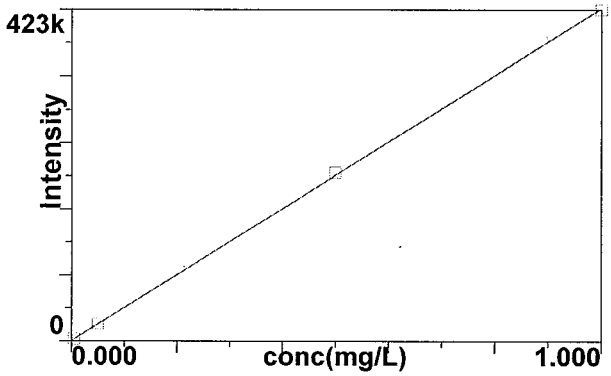
Sn 189.927



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

29

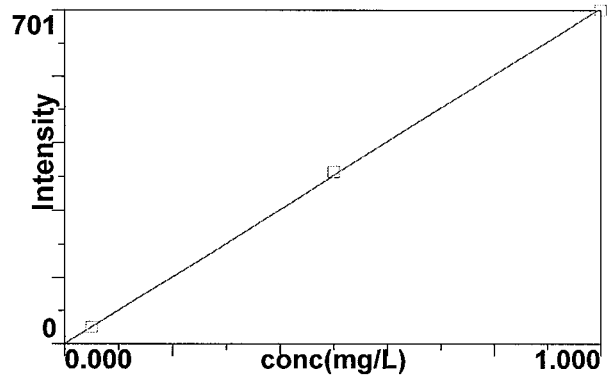
Ti 334.940



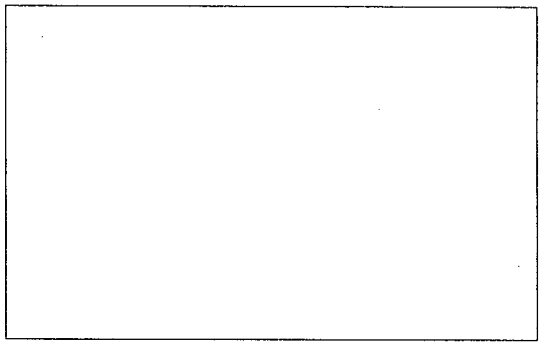
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999964

30

Tl 190.801

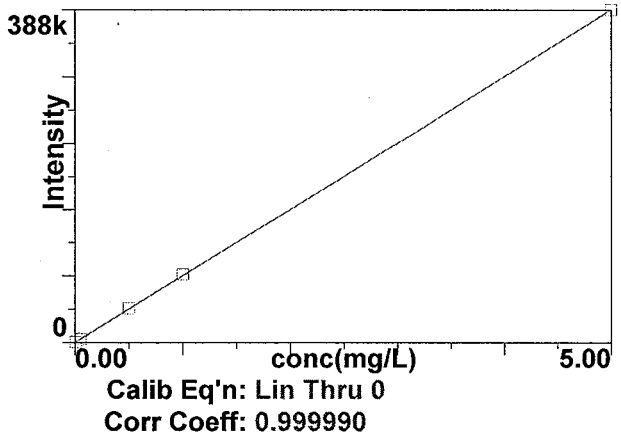


31



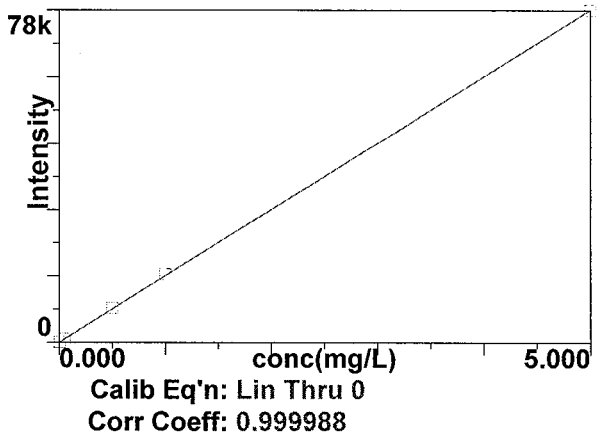
32

V 292.402

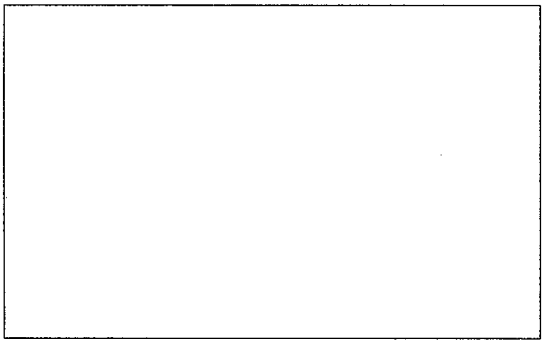


33

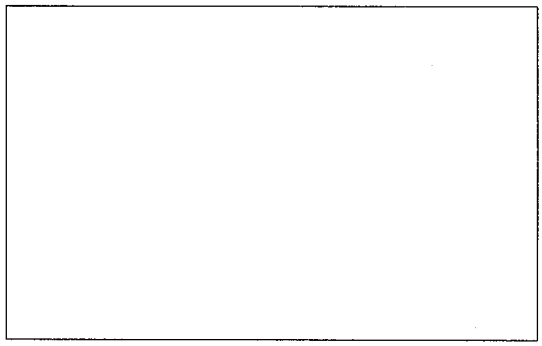
Zn 206.200



36



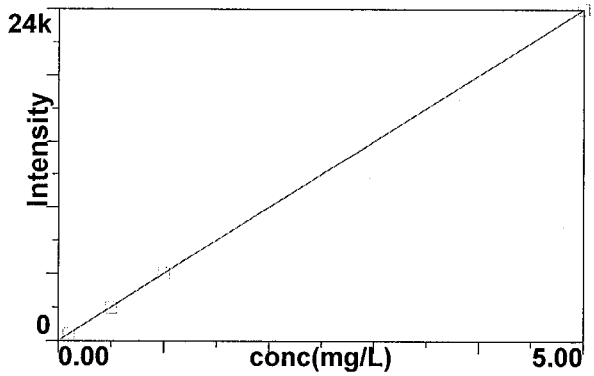
37



38

Method: ISIS 080714 6010SOIL
Result: 082114 B14864

U 424.167



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

39

Analysis Begun

Start Time: 8/21/2014 7:02:31 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/21/2014 5:45:00 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082114 B14864.sif
Batch ID: 082114 B14864
Results Data Set: 082114 B14864
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 1
Date Collected: 8/21/2014 7:02:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	216.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	29679.8	361.17	1.22%	100.00	%
Y 371.029	524116.0	803.66	0.15%	100.00	%
Ag 328.068†	58.6	11.86	20.24%	[0.00]	mg/L
Al 396.153†	-73.9	3.25	4.40%	[0.00]	mg/L
As 188.979†	12.4	2.06	16.67%	[0.00]	mg/L
As 193.696†	-5.7	3.67	64.94%	[0.00]	mg/L
B 249.772†	-6526.3	46.92	0.72%	[0.00]	mg/L
B 249.677†	344.6	39.44	11.45%	[0.00]	mg/L
Ba 233.527†	5.0	26.70	532.59%	[0.00]	mg/L
Be 313.107†	4479.7	25.81	0.58%	[0.00]	mg/L
Ca 317.933†	383.9	14.44	3.76%	[0.00]	mg/L
Cd 228.802†	-16.4	2.31	14.05%	[0.00]	mg/L
Cd 226.502†	41.0	2.08	5.06%	[0.00]	mg/L
Co 228.616†	12.2	6.25	51.10%	[0.00]	mg/L
Cr 267.716†	-8.7	4.90	56.61%	[0.00]	mg/L
Cr 205.560†	-28.8	15.01	52.12%	[0.00]	mg/L
Cu 324.752†	-2622.0	6.46	0.25%	[0.00]	mg/L
Fe 238.204†	26.4	4.62	17.53%	[0.00]	mg/L
K 766.490†	1787.3	22.33	1.25%	[0.00]	mg/L
Mg 285.213†	-30.7	6.68	21.76%	[0.00]	mg/L
Mn 257.610†	55.2	4.10	7.42%	[0.00]	mg/L
Mo 202.031†	-0.6	2.31	373.85%	[0.00]	mg/L
Ni 231.604†	-75.3	1.04	1.38%	[0.00]	mg/L
Pb 220.353†	-22.8	6.90	30.27%	[0.00]	mg/L
Pb 217.000†	8.3	2.35	28.27%	[0.00]	mg/L
Sb 206.836†	-5.3	2.86	53.56%	[0.00]	mg/L
Se 203.985†	1.9	1.47	79.40%	[0.00]	mg/L
Se 196.026†	-12.7	5.35	42.08%	[0.00]	mg/L
Sn 189.927†	7.0	2.14	30.77%	[0.00]	mg/L
Ti 334.940†	-66.0	7.29	11.04%	[0.00]	mg/L
Tl 190.801†	1.9	4.30	220.65%	[0.00]	mg/L
V 292.402†	797.9	11.90	1.49%	[0.00]	mg/L
Zn 206.200†	5.6	2.74	49.35%	[0.00]	mg/L
U 424.167†	506.1	53.36	10.54%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:

Autosampler Location: 408
Date Collected: 8/21/2014 7:04:35 AM
Data Type: Original
Initial Sample Vol:

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	216.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	29543.4	494.16	1.67%	99.540	%
Y 371.029	512323.6	2675.74	0.52%	97.750	%
Ag 328.068†	383.8	16.78	4.37%	[0.005]	mg/L
Al 396.153†	450.3	19.02	4.22%	[0.01]	mg/L
As 188.979†	5.9	1.34	22.53%	[0.02]	mg/L
As 193.696†	5.2	2.26	43.10%	[0.02]	mg/L
B 249.772†	1744.7	36.81	2.11%	[0.04]	mg/L
B 249.677†	1152.6	7.90	0.69%	[0.04]	mg/L
Ba 233.527†	100.4	18.71	18.64%	[0.002]	mg/L
Be 313.107†	5672.7	74.04	1.31%	[0.002]	mg/L
Ca 317.933†	3010.1	31.95	1.06%	[0.5]	mg/L
Cd 228.802†	20.9	4.72	22.59%	[0.002]	mg/L
Cd 226.502†	46.7	5.71	12.23%	[0.002]	mg/L
Co 228.616†	69.0	8.54	12.37%	[0.006]	mg/L
Cr 267.716†	145.3	3.62	2.49%	[0.006]	mg/L
Cr 205.560†	105.0	10.05	9.57%	[0.006]	mg/L
Cu 324.752†	627.5	5.16	0.82%	[0.006]	mg/L
Fe 238.204†	73.4	5.03	6.86%	[0.02]	mg/L
K 766.490†	1183.9	44.78	3.78%	[0.5]	mg/L
Mg 285.213†	3926.3	41.50	1.06%	[0.5]	mg/L
Mn 257.610†	502.0	10.62	2.11%	[0.002]	mg/L
Mo 202.031†	47.6	5.36	11.27%	[0.008]	mg/L
Ni 231.604†	94.5	3.98	4.21%	[0.005]	mg/L
Pb 220.353†	18.8	3.21	17.09%	[0.005]	mg/L
Sn 189.927†	13.9	5.91	42.54%	[0.01]	mg/L
Ti 334.940†	2259.1	35.05	1.55%	[0.005]	mg/L
V 292.402†	799.1	8.42	1.05%	[0.01]	mg/L
Zn 206.200†	94.7	2.03	2.14%	[0.005]	mg/L
U 424.167†	498.1	57.42	11.53%	[0.1]	mg/L

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Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 8/21/2014 7:06:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	216.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	28749.2	306.28	1.07%	96.865	%
Y 371.029	503227.2	4579.50	0.91%	96.014	%
Ag 328.068†	4038.0	27.21	0.67%	[0.05]	mg/L
Al 396.153†	2150.5	39.38	1.83%	[0.050]	mg/L
As 188.979†	18.4	2.37	12.88%	[0.050]	mg/L
As 193.696†	29.7	6.18	20.79%	[0.050]	mg/L
Ba 233.527†	2159.3	15.02	0.70%	[0.05]	mg/L
Be 313.107†	143272.6	484.63	0.34%	[0.05]	mg/L
Cd 228.802†	478.2	7.58	1.59%	[0.05]	mg/L
Cd 226.502†	1479.2	13.71	0.93%	[0.05]	mg/L
Co 228.616†	519.2	11.22	2.16%	[0.05]	mg/L

Cr 267.716†	1182.9	6.23	0.53%	[0.05] mg/L
Cr 205.560†	976.8	3.30	0.34%	[0.05] mg/L
Cu 324.752†	5383.1	48.51	0.90%	[0.050] mg/L
Fe 238.204†	165.0	7.18	4.35%	[0.050] mg/L
Mn 257.610†	12621.8	130.04	1.03%	[0.05] mg/L
Mo 202.031†	288.8	6.66	2.30%	[0.050] mg/L
Ni 231.604†	874.0	10.86	1.24%	[0.05] mg/L
Pb 220.353†	171.0	5.53	3.23%	[0.05] mg/L
Pb 217.000†	34.9	8.39	24.05%	[0.05] mg/L
Sb 206.836†	29.9	8.48	28.32%	[0.050] mg/L
Se 203.985†	24.3	6.90	28.38%	[0.050] mg/L
Se 196.026†	21.0	0.99	4.72%	[0.050] mg/L
Sn 189.927†	84.0	3.21	3.82%	[0.05] mg/L
Ti 334.940†	21725.2	73.48	0.34%	[0.05] mg/L
Tl 190.801†	35.7	2.36	6.61%	[0.050] mg/L
V 292.402†	3986.8	62.51	1.57%	[0.05] mg/L
Zn 206.200†	830.2	3.91	0.47%	[0.05] mg/L

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 8/21/2014 7:08:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	216.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	29399.3	294.02	1.00%	99.055	%
Y 371.029	500218.9	1457.01	0.29%	95.440	%
Ag 328.068†	41190.3	305.00	0.74%	[0.50]	mg/L
Al 396.153†	21583.0	142.50	0.66%	[0.50]	mg/L
As 188.979†	221.3	2.83	1.28%	[0.50]	mg/L
As 193.696†	267.6	5.04	1.88%	[0.50]	mg/L
B 249.772†	19768.4	342.68	1.73%	[0.50]	mg/L
B 249.677†	13851.9	55.52	0.40%	[0.50]	mg/L
Ba 233.527†	21334.3	162.88	0.76%	[0.50]	mg/L
Be 313.107†	1438685.0	1101.76	0.08%	[0.50]	mg/L
Cd 228.802†	4723.8	24.86	0.53%	[0.50]	mg/L
Cd 226.502†	14678.1	163.59	1.11%	[0.50]	mg/L
Co 228.616†	5108.4	55.73	1.09%	[0.50]	mg/L
Cr 267.716†	11594.3	87.62	0.76%	[0.50]	mg/L
Cr 205.560†	9718.3	70.86	0.73%	[0.50]	mg/L
Cu 324.752†	54678.0	435.83	0.80%	[0.50]	mg/L
Fe 238.204†	1603.7	14.50	0.90%	[0.50]	mg/L
Mn 257.610†	125625.3	1083.23	0.86%	[0.5]	mg/L
Mo 202.031†	2871.5	11.56	0.40%	[0.50]	mg/L
Ni 231.604†	8556.4	38.41	0.45%	[0.50]	mg/L
Pb 220.353†	1710.0	9.62	0.56%	[0.50]	mg/L
Pb 217.000†	396.5	5.65	1.43%	[0.50]	mg/L
Sb 206.836†	326.2	3.50	1.07%	[0.50]	mg/L
Se 203.985†	236.2	9.16	3.88%	[0.50]	mg/L
Se 196.026†	257.1	7.92	3.08%	[0.50]	mg/L
Sn 189.927†	857.1	9.13	1.07%	[0.50]	mg/L
Ti 334.940†	216109.8	1705.03	0.79%	[0.50]	mg/L
Tl 190.801†	359.9	3.39	0.94%	[0.50]	mg/L
V 292.402†	39738.6	369.27	0.93%	[0.50]	mg/L
Zn 206.200†	8012.1	40.96	0.51%	[0.50]	mg/L
U 424.167†	2343.8	30.43	1.30%	[0.50]	mg/L

Sequence No.: 5 **Autosampler Location: 410**
Sample ID: ST4 **Date Collected: 8/21/2014 7:10:03 AM**

Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	217.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	29104.5	35.54	0.12%	98.062	%
Y 371.029	507703.9	2254.06	0.44%	96.869	%
Ag 328.068†	82016.4	665.84	0.81%	[1.00]	mg/L
Al 396.153†	44457.0	484.24	1.09%	[1.00]	mg/L
As 188.979†	448.0	2.31	0.52%	[1.00]	mg/L
As 193.696†	530.0	1.65	0.31%	[1.00]	mg/L
B 249.772†	39679.7	996.86	2.51%	[1.00]	mg/L
B 249.677†	27424.8	45.90	0.17%	[1.00]	mg/L
Ba 233.527†	42457.0	440.74	1.04%	[1.00]	mg/L
Be 313.107†	2813764.1	7332.99	0.26%	[1.00]	mg/L
Cd 228.802†	9373.2	13.87	0.15%	[1.00]	mg/L
Cd 226.502†	29063.0	383.99	1.32%	[1.00]	mg/L
Co 228.616†	10088.2	149.00	1.48%	[1.00]	mg/L
Cr 267.716†	23095.6	200.49	0.87%	[1.00]	mg/L
Cr 205.560†	19522.4	226.94	1.16%	[1.00]	mg/L
Cu 324.752†	108192.2	1160.06	1.07%	[1.00]	mg/L
Fe 238.204†	3166.5	10.81	0.34%	[1.00]	mg/L
Mn 257.610†	247098.8	2485.05	1.01%	[1.00]	mg/L
Mo 202.031†	5730.5	1.69	0.03%	[1.00]	mg/L
Ni 231.604†	17031.7	151.53	0.89%	[1.00]	mg/L
Pb 220.353†	3410.4	8.85	0.26%	[1.00]	mg/L
Pb 217.000†	784.6	6.78	0.86%	[1.00]	mg/L
Sb 206.836†	668.9	3.37	0.50%	[1.00]	mg/L
Se 203.985†	480.4	6.81	1.42%	[1.00]	mg/L
Se 196.026†	513.8	5.97	1.16%	[1.00]	mg/L
Sn 189.927†	1708.9	5.90	0.35%	[1.00]	mg/L
Ti 334.940†	423269.4	1062.86	0.25%	[1.00]	mg/L
Tl 190.801†	701.3	4.60	0.66%	[1.00]	mg/L
V 292.402†	79213.0	760.20	0.96%	[1.00]	mg/L
Zn 206.200†	15953.5	167.33	1.05%	[1.00]	mg/L
U 424.167†	4772.0	42.79	0.90%	[1.00]	mg/L

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Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 8/21/2014 7:11:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	217.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	28934.7	98.07	0.34%	97.490	%
Y 371.029	507911.8	4570.37	0.90%	96.908	%
Al 396.153†	221847.7	553.61	0.25%	[5.00]	mg/L
B 249.772†	191613.1	2903.47	1.52%	[5.00]	mg/L
B 249.677†	133329.9	3012.25	2.26%	[5.00]	mg/L
Ba 233.527†	207969.2	549.81	0.26%	[5.00]	mg/L
Cd 228.802†	45852.5	178.03	0.39%	[5.00]	mg/L

Cd 226.502†	141812.2	312.84	0.22%	[5.00] mg/L
Co 228.616†	48980.5	355.13	0.73%	[5.00] mg/L
Cr 267.716†	113362.1	498.15	0.44%	[5.00] mg/L
Cr 205.560†	96012.7	206.47	0.22%	[5.00] mg/L
Cu 324.752†	514286.2	2019.94	0.39%	[5.00] mg/L
Fe 238.204†	15416.9	7.18	0.05%	[5.00] mg/L
Mn 257.610†	1192267.6	10042.27	0.84%	[5.00] mg/L
Mo 202.031†	28608.1	115.82	0.40%	[5.00] mg/L
Ni 231.604†	83721.3	295.61	0.35%	[5.00] mg/L
V 292.402†	388327.0	2012.89	0.52%	[5.00] mg/L
Zn 206.200†	78056.4	211.28	0.27%	[5.00] mg/L
U 424.167†	23812.3	67.32	0.28%	[5.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	82090	0.00000	0.999998	
Al 396.153	5	Lin Thru 0	0.0	44360	0.00000	0.999996	
As 188.979	4	Lin Thru 0	0.0	446.7	0.00000	0.999939	
As 193.696	4	Lin Thru 0	0.0	531.1	0.00000	0.999937	
B 249.772	4	Lin Thru 0	0.0	38390	0.00000	0.999972	
B 249.677	4	Lin Thru 0	0.0	26700	0.00000	0.999978	
Ba 233.527	5	Lin Thru 0	0.0	41640	0.00000	0.999989	
Be 313.107	4	Lin Thru 0	0.0	2827000	0.00000	0.999959	
Ca 317.933	1	Lin Thru 0	0.0	6020	0.00000	1.000000	
Cd 228.802	5	Lin Thru 0	0.0	9181	0.00000	0.999987	
Cd 226.502	5	Lin Thru 0	0.0	28400	0.00000	0.999983	
Co 228.616	5	Lin Thru 0	0.0	9811	0.00000	0.999975	
Cr 267.716	5	Lin Thru 0	0.0	22690	0.00000	0.999991	
Cr 205.560	5	Lin Thru 0	0.0	19220	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	103100	0.00000	0.999933	
Fe 238.204	5	Lin Thru 0	0.0	3088	0.00000	0.999979	
K 766.490	1	Lin Thru 0	0.0	2368	0.00000	1.000000	
Mg 285.213	1	Lin Thru 0	0.0	7853	0.00000	1.000000	
Mn 257.610	5	Lin Thru 0	0.0	238900	0.00000	0.999963	
Mo 202.031	5	Lin Thru 0	0.0	5722	0.00000	1.000000	
Ni 231.604	5	Lin Thru 0	0.0	16760	0.00000	0.999992	
Pb 220.353	4	Lin Thru 0	0.0	3412	0.00000	0.999999	
Pb 217.000	3	Lin Thru 0	0.0	786.1	0.00000	0.999978	
Sb 206.836	3	Lin Thru 0	0.0	665.5	0.00000	0.999940	
Se 203.985	3	Lin Thru 0	0.0	478.8	0.00000	0.999978	
Se 196.026	3	Lin Thru 0	0.0	513.7	0.00000	0.999967	
Sn 189.927	4	Lin Thru 0	0.0	1710	0.00000	0.999998	
Ti 334.940	4	Lin Thru 0	0.0	425100	0.00000	0.999964	
Tl 190.801	3	Lin Thru 0	0.0	705.0	0.00000	0.999944	
V 292.402	5	Lin Thru 0	0.0	77740	0.00000	0.999990	
Zn 206.200	5	Lin Thru 0	0.0	15630	0.00000	0.999988	
U 424.167	4	Lin Thru 0	0.0	4762	0.00000	0.999998	

Sequence No.: 7 **Autosampler Location: 411**
Sample ID: ST6 **Date Collected: 8/21/2014 7:13:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST6

Analyte	Back Pressure	Flow
All	217.0 kPa	0.55 L/min

Mean Data: ST6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	28539.2	259.11	0.91%	96.157	%
Y 371.029	504503.4	1698.51	0.34%	96.258	%
Ca 317.933†	27145.9	160.71	0.59%	[5]	mg/L

K 766.490†	12187.3	40.05	0.33%	[5] mg/L
Mg 285.213†	39559.9	75.97	0.19%	[5] mg/L

Sequence No.: 8
Sample ID: ST7
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/21/2014 7:14:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST7

Analyte	Back Pressure	Flow
All	217.0 kPa	0.55 L/min

Mean Data: ST7

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	29095.9	355.42	1.22%	98.033	%
Y 371.029	499220.3	2395.85	0.48%	95.250	%
Ca 317.933†	270123.9	398.06	0.15%	[50]	mg/L
K 766.490†	122219.5	442.70	0.36%	[50]	mg/L
Mg 285.213†	379031.1	284.55	0.08%	[50]	mg/L

Sequence No.: 9
Sample ID: ST8
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 412
Date Collected: 8/21/2014 7:15:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST8

Analyte	Back Pressure	Flow
All	218.0 kPa	0.55 L/min

Mean Data: ST8

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	28412.5	227.44	0.80%	95.730	%
Y 371.029	490769.3	5427.83	1.11%	93.638	%
Ca 317.933†	529410.9	1136.40	0.21%	[100]	mg/L
K 766.490†	250344.9	319.78	0.13%	[100]	mg/L
Mg 285.213†	750451.9	2709.85	0.36%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	82090	0.00000	0.999998	
Al 396.153	5	Lin Thru 0	0.0	44360	0.00000	0.999996	
As 188.979	4	Lin Thru 0	0.0	446.7	0.00000	0.999939	
As 193.696	4	Lin Thru 0	0.0	531.1	0.00000	0.999937	
B 249.772	4	Lin Thru 0	0.0	38390	0.00000	0.999972	
B 249.677	4	Lin Thru 0	0.0	26700	0.00000	0.999978	
Ba 233.527	5	Lin Thru 0	0.0	41640	0.00000	0.999989	
Be 313.107	4	Lin Thru 0	0.0	2827000	0.00000	0.999959	
Ca 317.933	4	Lin Thru 0	0.0	5316	0.00000	0.999966	
Cd 228.802	5	Lin Thru 0	0.0	9181	0.00000	0.999987	
Cd 226.502	5	Lin Thru 0	0.0	28400	0.00000	0.999983	
Co 228.616	5	Lin Thru 0	0.0	9811	0.00000	0.999975	
Cr 267.716	5	Lin Thru 0	0.0	22690	0.00000	0.999991	
Cr 205.560	5	Lin Thru 0	0.0	19220	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	103100	0.00000	0.999933	
Fe 238.204	5	Lin Thru 0	0.0	3088	0.00000	0.999979	
K 766.490	4	Lin Thru 0	0.0	2492	0.00000	0.999955	

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Mg 285.213	4	Lin Thru 0	0.0	7521	0.00000	0.999989
Mn 257.610	5	Lin Thru 0	0.0	238900	0.00000	0.999963
Mo 202.031	5	Lin Thru 0	0.0	5722	0.00000	1.000000
Ni 231.604	5	Lin Thru 0	0.0	16760	0.00000	0.999992
Pb 220.353	4	Lin Thru 0	0.0	3412	0.00000	0.999999
Pb 217.000	3	Lin Thru 0	0.0	786.1	0.00000	0.999978
Sb 206.836	3	Lin Thru 0	0.0	665.5	0.00000	0.999940
Se 203.985	3	Lin Thru 0	0.0	478.8	0.00000	0.999978
Se 196.026	3	Lin Thru 0	0.0	513.7	0.00000	0.999967
Sn 189.927	4	Lin Thru 0	0.0	1710	0.00000	0.999998
Ti 334.940	4	Lin Thru 0	0.0	425100	0.00000	0.999964
Tl 190.801	3	Lin Thru 0	0.0	705.0	0.00000	0.999944
V 292.402	5	Lin Thru 0	0.0	77740	0.00000	0.999990
Zn 206.200	5	Lin Thru 0	0.0	15630	0.00000	0.999988
U 424.167	4	Lin Thru 0	0.0	4762	0.00000	0.999998

Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 8/21/2014 7:16:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	217.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	29099.2	98.044	%	0.6133				0.63%
Y 371.029	495867.8	94.610	%	0.6649				0.70%
Ag 328.068†	41200.7	0.50192	mg/L	0.009813	0.50192	mg/L	0.009813	1.96%
QC value within limits for Ag 328.068 Recovery = 100.38%								
Al 396.153†	21714.4	0.48949	mg/L	0.010410	0.48949	mg/L	0.010410	2.13%
QC value within limits for Al 396.153 Recovery = 97.90%								
As 188.979†	222.9	0.49899	mg/L	0.003243	0.49899	mg/L	0.003243	0.65%
QC value within limits for As 188.979 Recovery = 99.80%								
As 193.696†	257.5	0.48484	mg/L	0.009576	0.48484	mg/L	0.009576	1.98%
B 249.772†	20007.8	0.52122	mg/L	0.017190	0.52122	mg/L	0.017190	3.30%
QC value within limits for B 249.772 Recovery = 104.24%								
B 249.677†	13298.5	0.498	mg/L	0.0052	0.498	mg/L	0.0052	1.04%
Ba 233.527†	21166.7	0.50836	mg/L	0.009585	0.50836	mg/L	0.009585	1.89%
QC value within limits for Ba 233.527 Recovery = 101.67%								
Be 313.107†	1401924.2	0.49598	mg/L	0.001014	0.49598	mg/L	0.001014	0.20%
QC value within limits for Be 313.107 Recovery = 99.20%								
Ca 317.933†	-38.8	-0.00730	mg/L	0.001024	-0.00730	mg/L	0.001024	14.03%
Cd 228.802†	4637.3	0.50510	mg/L	0.002125	0.50510	mg/L	0.002125	0.42%
QC value within limits for Cd 228.802 Recovery = 101.02%								
Cd 226.502†	14380.8	0.50639	mg/L	0.009820	0.50639	mg/L	0.009820	1.94%
Co 228.616†	4867.7	0.49613	mg/L	0.003692	0.49613	mg/L	0.003692	0.74%
QC value within limits for Co 228.616 Recovery = 99.23%								
Cr 267.716†	11460.6	0.50501	mg/L	0.009951	0.50501	mg/L	0.009951	1.97%
Cr 205.560†	9488.3	0.49374	mg/L	0.000773	0.49374	mg/L	0.000773	0.16%
QC value within limits for Cr 205.560 Recovery = 98.75%								
Cu 324.752†	54946.9	0.53283	mg/L	0.009784	0.53283	mg/L	0.009784	1.84%
QC value within limits for Cu 324.752 Recovery = 106.57%								
Fe 238.204†	1562.9	0.50616	mg/L	0.003019	0.50616	mg/L	0.003019	0.60%
QC value within limits for Fe 238.204 Recovery = 101.23%								
K 766.490†	-11.4	-0.00456	mg/L	0.008341	-0.00456	mg/L	0.008341	182.96%
Mg 285.213†	-4.9	-0.00065	mg/L	0.001420	-0.00065	mg/L	0.001420	219.05%
Mn 257.610†	123712.0	0.51783	mg/L	0.008730	0.51783	mg/L	0.008730	1.69%
QC value within limits for Mn 257.610 Recovery = 103.57%								
Mo 202.031†	2831.2	0.49477	mg/L	0.005610	0.49477	mg/L	0.005610	1.13%
QC value within limits for Mo 202.031 Recovery = 98.95%								
Ni 231.604†	8492.9	0.50677	mg/L	0.002159	0.50677	mg/L	0.002159	0.43%
QC value within limits for Ni 231.604 Recovery = 101.35%								

Pb 220.353†	1688.7	0.49488 mg/L	0.003165	0.49488 mg/L	0.003165	0.64%
QC value within limits for Pb 220.353 Recovery = 98.98%						
Pb 217.000†	396.0	0.50379 mg/L	0.011828	0.50379 mg/L	0.011828	2.35%
Sb 206.836†	325.0	0.48842 mg/L	0.006320	0.48842 mg/L	0.006320	1.29%
QC value within limits for Sb 206.836 Recovery = 97.68%						
Se 203.985†	243.3	0.50803 mg/L	0.014883	0.50803 mg/L	0.014883	2.93%
Se 196.026†	258.0	0.50224 mg/L	0.001076	0.50224 mg/L	0.001076	0.21%
QC value within limits for Se 196.026 Recovery = 100.45%						
Sn 189.927†	836.6	0.48927 mg/L	0.002963	0.48927 mg/L	0.002963	0.61%
QC value within limits for Sn 189.927 Recovery = 97.85%						
Ti 334.940†	213619.0	0.50254 mg/L	0.008954	0.50254 mg/L	0.008954	1.78%
QC value within limits for Ti 334.940 Recovery = 100.51%						
Tl 190.801†	344.7	0.48891 mg/L	0.004491	0.48891 mg/L	0.004491	0.92%
QC value within limits for Tl 190.801 Recovery = 97.78%						
V 292.402†	39960.5	0.51402 mg/L	0.010962	0.51402 mg/L	0.010962	2.13%
QC value within limits for V 292.402 Recovery = 102.80%						
Zn 206.200†	7687.5	0.49189 mg/L	0.002825	0.49189 mg/L	0.002825	0.57%
QC value within limits for Zn 206.200 Recovery = 98.38%						
U 424.167†	2330.8	0.48944 mg/L	0.008744	0.48944 mg/L	0.008744	1.79%
QC value within limits for U 424.167 Recovery = 97.89%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 402
Date Collected: 8/21/2014 7:18:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV CAT

Analyte	Back Pressure	Flow
All	218.0 kPa	0.55 L/min

Mean Data: ICV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	28400.6	95.690	%	0.7096				0.74%
Y 371.029	505615.0	96.470	%	0.6884				0.71%
Ag 328.068†	169.2	0.00206	mg/L	0.000405	0.00206	mg/L	0.000405	19.63%
Al 396.153†	-48.1	-0.00108	mg/L	0.001593	-0.00108	mg/L	0.001593	147.00%
As 188.979†	-2.4	-0.00548	mg/L	0.006646	-0.00548	mg/L	0.006646	121.20%
As 193.696†	-5.3	-0.00993	mg/L	0.005576	-0.00993	mg/L	0.005576	56.15%
B 249.772†	-1113.2	-0.02900	mg/L	0.008494	-0.02900	mg/L	0.008494	29.29%
B 249.677†	13.4	0.001	mg/L	0.0010	0.001	mg/L	0.0010	192.66%
Ba 233.527†	31.9	0.00077	mg/L	0.000722	0.00077	mg/L	0.000722	94.07%
Be 313.107†	69.6	0.00002	mg/L	0.000023	0.00002	mg/L	0.000023	92.44%
Ca 317.933†	269738.3	50.741	mg/L	0.0835	50.741	mg/L	0.0835	0.16%
QC value within limits for Ca 317.933 Recovery = 101.48%								
Cd 228.802†	-10.1	-0.00111	mg/L	0.000218	-0.00111	mg/L	0.000218	19.70%
Cd 226.502†	-5.1	-0.00018	mg/L	0.000056	-0.00018	mg/L	0.000056	30.82%
Co 228.616†	13.3	0.00136	mg/L	0.000815	0.00136	mg/L	0.000815	59.99%
Cr 267.716†	24.2	0.00107	mg/L	0.000324	0.00107	mg/L	0.000324	30.32%
Cr 205.560†	-18.0	-0.00094	mg/L	0.001217	-0.00094	mg/L	0.001217	129.86%
Cu 324.752†	-53.1	-0.00051	mg/L	0.000093	-0.00051	mg/L	0.000093	18.14%
Fe 238.204†	19.7	0.00639	mg/L	0.001130	0.00639	mg/L	0.001130	17.67%
K 766.490†	125107.1	50.213	mg/L	0.0439	50.213	mg/L	0.0439	0.09%
QC value within limits for K 766.490 Recovery = 100.43%								
Mg 285.213†	388206.4	51.620	mg/L	0.0661	51.620	mg/L	0.0661	0.13%
QC value within limits for Mg 285.213 Recovery = 103.24%								
Mn 257.610†	29.4	0.00012	mg/L	0.000028	0.00012	mg/L	0.000028	22.72%
Mo 202.031†	6.4	0.00112	mg/L	0.000457	0.00112	mg/L	0.000457	40.89%
Ni 231.604†	-8.1	-0.00048	mg/L	0.000640	-0.00048	mg/L	0.000640	132.55%
Pb 220.353†	9.2	0.00270	mg/L	0.002953	0.00270	mg/L	0.002953	109.48%
Pb 217.000†	0.1	0.00011	mg/L	0.010228	0.00011	mg/L	0.010228	>999.9%
Sb 206.836†	-14.2	-0.02130	mg/L	0.011175	-0.02130	mg/L	0.011175	52.47%
Se 203.985†	-27.8	-0.05801	mg/L	0.002828	-0.05801	mg/L	0.002828	4.88%
Se 196.026†	-14.7	-0.02857	mg/L	0.002793	-0.02857	mg/L	0.002793	9.78%

Sn 189.927†	17.2	0.01007 mg/L	0.002976	0.01007 mg/L	0.002976	29.56%
Ti 334.940†	-61.8	-0.00015 mg/L	0.000175	-0.00015 mg/L	0.000175	120.67%
Tl 190.801†	7.4	0.01043 mg/L	0.001133	0.01043 mg/L	0.001133	10.86%
V 292.402†	71.3	0.00092 mg/L	0.000043	0.00092 mg/L	0.000043	4.70%
Zn 206.200†	39.7	0.00254 mg/L	0.000348	0.00254 mg/L	0.000348	13.70%
U 424.167†	-135.3	-0.02840 mg/L	0.010455	-0.02840 mg/L	0.010455	36.81%

All analyte(s) passed QC.

Sequence No.: 12 | **Autosampler Location: 1**
Sample ID: ICB | **Date Collected: 8/21/2014 7:20:42 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	28612.2	96.403	%	0.6365				0.66%
Y 371.029	510703.7	97.441	%	0.8453				0.87%
Ag 328.068†	-6.4	-0.00008	mg/L	0.000412	-0.00008	mg/L	0.000412	530.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	11.0	0.00025	mg/L	0.000406	0.00025	mg/L	0.000406	164.11%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-3.3	-0.00738	mg/L	0.005255	-0.00738	mg/L	0.005255	71.20%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.7	-0.00499	mg/L	0.009736	-0.00499	mg/L	0.009736	195.03%
B 249.772†	121.6	0.00317	mg/L	0.011145	0.00317	mg/L	0.011145	351.84%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	-13.2	-0.000	mg/L	0.0007	-0.000	mg/L	0.0007	140.33%
Ba 233.527†	-7.3	-0.00017	mg/L	0.000309	-0.00017	mg/L	0.000309	177.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-143.8	-0.00005	mg/L	0.000014	-0.00005	mg/L	0.000014	28.14%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	8.5	0.00160	mg/L	0.001560	0.00160	mg/L	0.001560	97.33%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-1.1	-0.00012	mg/L	0.000529	-0.00012	mg/L	0.000529	431.92%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-7.0	-0.00024	mg/L	0.000048	-0.00024	mg/L	0.000048	19.71%
Co 228.616†	-7.4	-0.00076	mg/L	0.001099	-0.00076	mg/L	0.001099	144.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-1.6	-0.00007	mg/L	0.000391	-0.00007	mg/L	0.000391	562.12%
Cr 205.560†	10.1	0.00052	mg/L	0.000979	0.00052	mg/L	0.000979	187.09%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	106.7	0.00103	mg/L	0.000321	0.00103	mg/L	0.000321	31.07%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	7.4	0.00240	mg/L	0.002229	0.00240	mg/L	0.002229	92.95%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	2.3	0.00091	mg/L	0.027869	0.00091	mg/L	0.027869	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	9.8	0.00131	mg/L	0.000460	0.00131	mg/L	0.000460	35.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-7.9	-0.00003	mg/L	0.000055	-0.00003	mg/L	0.000055	167.49%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	5.6	0.00097	mg/L	0.000280	0.00097	mg/L	0.000280	28.69%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	1.0	0.00006	mg/L	0.000471	0.00006	mg/L	0.000471	792.60%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.5	-0.00044	mg/L	0.000629	-0.00044	mg/L	0.000629	142.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-3.2	-0.00402	mg/L	0.011559	-0.00402	mg/L	0.011559	287.86%
Sb 206.836†	0.6	0.00097	mg/L	0.008911	0.00097	mg/L	0.008911	922.62%
QC value within limits for Sb 206.836 Recovery = Not calculated								

Se 203.985†	-0.5	-0.00100 mg/L	0.012388	-0.00100 mg/L	0.012388	>999.9%
Se 196.026†	-5.0	-0.00964 mg/L	0.013171	-0.00964 mg/L	0.013171	136.61%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1.4	-0.00081 mg/L	0.001414	-0.00081 mg/L	0.001414	173.64%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	8.5	0.00002 mg/L	0.000058	0.00002 mg/L	0.000058	290.59%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.6	-0.00228 mg/L	0.002581	-0.00228 mg/L	0.002581	113.41%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-24.1	-0.00031 mg/L	0.000271	-0.00031 mg/L	0.000271	87.51%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	5.8	0.00037 mg/L	0.000325	0.00037 mg/L	0.000325	87.45%
QC value within limits for Zn 206.200 Recovery = Not calculated						
U 424.167†	-47.2	-0.00991 mg/L	0.010340	-0.00991 mg/L	0.010340	104.37%
QC value within limits for U 424.167 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/21/2014 7:22:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	29470.8	99.296	%	0.5569				0.56%
Y 371.029	513302.4	97.937	%	0.9541				0.97%
Ag 328.068†	398.1	0.00485	mg/L	0.000582	0.00485	mg/L	0.000582	11.99%
QC value within limits for Ag 328.068 Recovery = 96.99%								
Al 396.153†	458.0	0.01032	mg/L	0.000669	0.01032	mg/L	0.000669	6.48%
QC value within limits for Al 396.153 Recovery = 103.24%								
As 188.979†	4.8	0.01085	mg/L	0.002608	0.01085	mg/L	0.002608	24.04%
QC value within limits for As 188.979 Recovery = 54.24%								
As 193.696†	10.5	0.01984	mg/L	0.002941	0.01984	mg/L	0.002941	14.82%
B 249.772†	1856.1	0.04835	mg/L	0.004305	0.04835	mg/L	0.004305	8.90%
QC value within limits for B 249.772 Recovery = 120.88%								
B 249.677†	1092.3	0.041	mg/L	0.0006	0.041	mg/L	0.0006	1.57%
Ba 233.527†	91.0	0.00219	mg/L	0.000368	0.00219	mg/L	0.000368	16.83%
QC value within limits for Ba 233.527 Recovery = 109.26%								
Be 313.107†	5335.5	0.00189	mg/L	0.000026	0.00189	mg/L	0.000026	1.36%
QC value within limits for Be 313.107 Recovery = 94.38%								
Ca 317.933†	2972.9	0.55923	mg/L	0.009150	0.55923	mg/L	0.009150	1.64%
QC value within limits for Ca 317.933 Recovery = 111.85%								
Cd 228.802†	21.3	0.00232	mg/L	0.000511	0.00232	mg/L	0.000511	22.03%
QC value within limits for Cd 228.802 Recovery = 115.86%								
Cd 226.502†	44.4	0.00156	mg/L	0.000059	0.00156	mg/L	0.000059	3.76%
Co 228.616†	62.7	0.00639	mg/L	0.000771	0.00639	mg/L	0.000771	12.07%
QC value within limits for Co 228.616 Recovery = 106.48%								
Cr 267.716†	143.1	0.00631	mg/L	0.000143	0.00631	mg/L	0.000143	2.26%
Cr 205.560†	126.0	0.00656	mg/L	0.000878	0.00656	mg/L	0.000878	13.38%
QC value within limits for Cr 205.560 Recovery = 109.31%								
Cu 324.752†	748.0	0.00725	mg/L	0.000146	0.00725	mg/L	0.000146	2.02%
QC value within limits for Cu 324.752 Recovery = 120.89%								
Fe 238.204†	82.1	0.02659	mg/L	0.001774	0.02659	mg/L	0.001774	6.67%
QC value within limits for Fe 238.204 Recovery = 132.94%								
K 766.490†	1202.3	0.48254	mg/L	0.031028	0.48254	mg/L	0.031028	6.43%
QC value within limits for K 766.490 Recovery = 96.51%								
Mg 285.213†	3928.7	0.52240	mg/L	0.008059	0.52240	mg/L	0.008059	1.54%
QC value within limits for Mg 285.213 Recovery = 104.48%								
Mn 257.610†	491.5	0.00206	mg/L	0.000056	0.00206	mg/L	0.000056	2.72%
QC value within limits for Mn 257.610 Recovery = 102.86%								

Mo 202.031†	49.7	0.00868 mg/L	0.000374	0.00868 mg/L	0.000374	4.31%
QC value within limits for Mo 202.031 Recovery = 108.54%						
Ni 231.604†	106.7	0.00637 mg/L	0.000431	0.00637 mg/L	0.000431	6.76%
QC value within limits for Ni 231.604 Recovery = 127.39%						
Pb 220.353†	17.1	0.00500 mg/L	0.002155	0.00500 mg/L	0.002155	43.11%
QC value within limits for Pb 220.353 Recovery = 99.98%						
Pb 217.000†	0.6	0.00081 mg/L	0.005344	0.00081 mg/L	0.005344	659.54%
Sb 206.836†	26.8	0.04033 mg/L	0.008725	0.04033 mg/L	0.008725	21.64%
QC value within limits for Sb 206.836 Recovery = 80.65%						
Se 203.985†	23.0	0.04810 mg/L	0.007619	0.04810 mg/L	0.007619	15.84%
Se 196.026†	22.3	0.04348 mg/L	0.006691	0.04348 mg/L	0.006691	15.39%
QC value within limits for Se 196.026 Recovery = 86.97%						
Sn 189.927†	16.4	0.00961 mg/L	0.001590	0.00961 mg/L	0.001590	16.55%
QC value within limits for Sn 189.927 Recovery = 96.09%						
Ti 334.940†	2206.0	0.00519 mg/L	0.000119	0.00519 mg/L	0.000119	2.29%
QC value within limits for Ti 334.940 Recovery = 103.79%						
Tl 190.801†	40.6	0.05754 mg/L	0.004021	0.05754 mg/L	0.004021	6.99%
QC value within limits for Tl 190.801 Recovery = 115.09%						
V 292.402†	755.9	0.00972 mg/L	0.000259	0.00972 mg/L	0.000259	2.66%
QC value within limits for V 292.402 Recovery = 97.24%						
Zn 206.200†	96.8	0.00619 mg/L	0.000324	0.00619 mg/L	0.000324	5.22%
QC value within limits for Zn 206.200 Recovery = 123.89%						
U 424.167†	487.9	0.10246 mg/L	0.019227	0.10246 mg/L	0.019227	18.77%
QC value within limits for U 424.167 Recovery = 102.46%						

All analyte(s) passed QC.

Sequence No.: 14 **Autosampler Location: 403**
Sample ID: ICS ELEM **Date Collected: 8/21/2014 7:24:12 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	28843.8	97.183	%	0.8878				0.91%
Y 371.029	510042.6	97.315	%	0.1268				0.13%
Ag 328.068†	43489.1	0.52980	mg/L	0.003522	0.52980	mg/L	0.003522	0.66%
QC value within limits for Ag 328.068 Recovery = 105.96%								
Al 396.153†	2519746.4	56.801	mg/L	0.1387	56.801	mg/L	0.1387	0.24%
As 188.979†	244.7	0.54779	mg/L	0.004821	0.54779	mg/L	0.004821	0.88%
QC value within limits for As 188.979 Recovery = 109.56%								
As 193.696†	245.3	0.46195	mg/L	0.017268	0.46195	mg/L	0.017268	3.74%
B 249.772†	27718.9	0.72211	mg/L	0.020133	0.72211	mg/L	0.020133	2.79%
QC value greater than the upper limit for B 249.772 Recovery = 144.42%								
B 249.677†	13392.0	0.501	mg/L	0.0057	0.501	mg/L	0.0057	1.14%
Ba 233.527†	21639.5	0.51972	mg/L	0.005379	0.51972	mg/L	0.005379	1.03%
QC value within limits for Ba 233.527 Recovery = 103.94%								
Be 313.107†	1525926.3	0.53985	mg/L	0.001356	0.53985	mg/L	0.001356	0.25%
QC value within limits for Be 313.107 Recovery = 107.97%								
Ca 317.933†	282768.9	53.192	mg/L	0.0645	53.192	mg/L	0.0645	0.12%
Cd 228.802†	5029.3	0.54780	mg/L	0.002758	0.54780	mg/L	0.002758	0.50%
QC value within limits for Cd 228.802 Recovery = 109.56%								
Cd 226.502†	15112.2	0.53214	mg/L	0.003643	0.53214	mg/L	0.003643	0.68%
Co 228.616†	4866.0	0.49596	mg/L	0.002010	0.49596	mg/L	0.002010	0.41%
QC value within limits for Co 228.616 Recovery = 99.19%								
Cr 267.716†	11659.0	0.51376	mg/L	0.002644	0.51376	mg/L	0.002644	0.51%
Cr 205.560†	9787.1	0.50929	mg/L	0.001974	0.50929	mg/L	0.001974	0.39%
QC value within limits for Cr 205.560 Recovery = 101.86%								
Cu 324.752†	52836.0	0.51236	mg/L	0.004000	0.51236	mg/L	0.004000	0.78%
QC value within limits for Cu 324.752 Recovery = 102.47%								
Fe 238.204†	64761.2	20.973	mg/L	0.0257	20.973	mg/L	0.0257	0.12%

K 766.490†	-77.0	-0.03092 mg/L	0.020580	-0.03092 mg/L	0.020580	66.55%
Mg 285.213†	395474.9	52.586 mg/L	0.0682	52.586 mg/L	0.0682	0.13%
Mn 257.610†	122687.4	0.51354 mg/L	0.004978	0.51354 mg/L	0.004978	0.97%
QC value within limits for Mn 257.610 Recovery = 102.71%						
Mo 202.031†	2963.4	0.51788 mg/L	0.004499	0.51788 mg/L	0.004499	0.87%
QC value within limits for Mo 202.031 Recovery = 103.58%						
Ni 231.604†	8222.3	0.49063 mg/L	0.002473	0.49063 mg/L	0.002473	0.50%
QC value within limits for Ni 231.604 Recovery = 98.13%						
Pb 220.353†	1695.7	0.49695 mg/L	0.001711	0.49695 mg/L	0.001711	0.34%
QC value within limits for Pb 220.353 Recovery = 99.39%						
Pb 217.000†	425.8	0.54167 mg/L	0.007705	0.54167 mg/L	0.007705	1.42%
Sb 206.836†	316.3	0.47537 mg/L	0.006154	0.47537 mg/L	0.006154	1.29%
QC value within limits for Sb 206.836 Recovery = 95.07%						
Se 203.985†	262.4	0.54806 mg/L	0.015393	0.54806 mg/L	0.015393	2.81%
Se 196.026†	281.6	0.54822 mg/L	0.016786	0.54822 mg/L	0.016786	3.06%
QC value within limits for Se 196.026 Recovery = 109.64%						
Sn 189.927†	893.3	0.52246 mg/L	0.005948	0.52246 mg/L	0.005948	1.14%
QC value within limits for Sn 189.927 Recovery = 104.49%						
Ti 334.940†	221381.8	0.52080 mg/L	0.003927	0.52080 mg/L	0.003927	0.75%
QC value within limits for Ti 334.940 Recovery = 104.16%						
Tl 190.801†	373.1	0.52925 mg/L	0.001746	0.52925 mg/L	0.001746	0.33%
QC value within limits for Tl 190.801 Recovery = 105.85%						
V 292.402†	41214.7	0.53015 mg/L	0.003747	0.53015 mg/L	0.003747	0.71%
QC value within limits for V 292.402 Recovery = 106.03%						
Zn 206.200†	8317.2	0.53218 mg/L	0.004045	0.53218 mg/L	0.004045	0.76%
QC value within limits for Zn 206.200 Recovery = 106.44%						
U 424.167†	2148.9	0.45124 mg/L	0.002965	0.45124 mg/L	0.002965	0.66%
QC value within limits for U 424.167 Recovery = 90.25%						

QC Failed. Continue with analysis.

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Sequence No.: 15 **Autosampler Location: 404**
Sample ID: ICS **Date Collected: 8/21/2014 7:25:50 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	218.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029 R	28703.3	96.710	%	0.3878				0.40%
Y 371.029	503700.8	96.105	%	0.5882				0.61%
Ag 328.068†	-17.9	-0.00022	mg/L	0.000008	-0.00022	mg/L	0.000008	3.52%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	2482670.6	55.965	mg/L	0.1049	55.965	mg/L	0.1049	0.19%
As 188.979†	-2.5	-0.00564	mg/L	0.005271	-0.00564	mg/L	0.005271	93.50%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-49.4	-0.09308	mg/L	0.005326	-0.09308	mg/L	0.005326	5.72%
B 249.772†	5560.0	0.14484	mg/L	0.002313	0.14484	mg/L	0.002313	1.60%
QC value greater than the upper limit for B 249.772 Recovery = Not calculated								
B 249.677†	-1672.3	-0.063	mg/L	0.0009	-0.063	mg/L	0.0009	1.40%
Ba 233.527†	45.9	0.00110	mg/L	0.000194	0.00110	mg/L	0.000194	17.65%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	503.6	0.00018	mg/L	0.000026	0.00018	mg/L	0.000026	14.75%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	282369.7	53.117	mg/L	0.0538	53.117	mg/L	0.0538	0.10%
Cd 228.802†	-4.7	-0.00052	mg/L	0.000158	-0.00052	mg/L	0.000158	30.49%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-20.3	-0.00071	mg/L	0.000094	-0.00071	mg/L	0.000094	13.09%
Co 228.616†	12.4	0.00127	mg/L	0.000950	0.00127	mg/L	0.000950	75.00%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	20.7	0.00091	mg/L	0.000186	0.00091	mg/L	0.000186	20.39%
Cr 205.560†	-61.8	-0.00322	mg/L	0.000863	-0.00322	mg/L	0.000863	26.84%

QC value within limits for Cr 205.560 Recovery = Not calculated							
Cu 324.752†	-444.4	-0.00431	mg/L	0.000226	-0.00431	mg/L	0.000226 5.25%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204†	63448.0	20.548	mg/L	0.0525	20.548	mg/L	0.0525 0.26%
K 766.490†	-31.8	-0.01278	mg/L	0.041958	-0.01278	mg/L	0.041958 328.34%
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	394391.4	52.442	mg/L	0.0387	52.442	mg/L	0.0387 0.07%
Mn 257.610†	-38.9	-0.00016	mg/L	0.000230	-0.00016	mg/L	0.000230 141.08%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	8.7	0.00152	mg/L	0.000286	0.00152	mg/L	0.000286 18.88%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	-2.2	-0.00013	mg/L	0.000140	-0.00013	mg/L	0.000140 107.99%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	-48.1	-0.01409	mg/L	0.000703	-0.01409	mg/L	0.000703 4.99%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	15.7	0.01999	mg/L	0.010592	0.01999	mg/L	0.010592 52.97%
Sb 206.836†	-8.4	-0.01257	mg/L	0.010273	-0.01257	mg/L	0.010273 81.73%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 203.985†	-27.3	-0.05698	mg/L	0.009482	-0.05698	mg/L	0.009482 16.64%
Se 196.026†	-28.3	-0.05508	mg/L	0.009796	-0.05508	mg/L	0.009796 17.79%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	16.4	0.00956	mg/L	0.000528	0.00956	mg/L	0.000528 5.52%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	-58.4	-0.00014	mg/L	0.000041	-0.00014	mg/L	0.000041 29.66%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.6	0.01074	mg/L	0.007832	0.01074	mg/L	0.007832 72.94%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	138.9	0.00179	mg/L	0.000180	0.00179	mg/L	0.000180 10.07%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	130.8	0.00837	mg/L	0.000143	0.00837	mg/L	0.000143 1.71%
QC value within limits for Zn 206.200 Recovery = Not calculated							
U 424.167†	-168.3	-0.03534	mg/L	0.024548	-0.03534	mg/L	0.024548 69.46%
QC value within limits for U 424.167 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 16 **Autosampler Location: 301**
Sample ID: MB-14864 **Date Collected: 8/21/2014 7:27:26 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: MB-14864

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: MB-14864

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029 R	27809.2	93.698	%	1.0733				1.15%
Y 371.029	479166.0	91.424	%	0.5012				0.55%
Ag 328.068†	0.4	0.00000	mg/L	0.000198	0.00000	mg/L	0.000198	>999.9%
Al 396.153†	595.2	0.01342	mg/L	0.000675	0.01342	mg/L	0.000675	5.03%
As 188.979†	-0.3	-0.00060	mg/L	0.001596	-0.00060	mg/L	0.001596	264.95%
As 193.696†	-1.0	-0.00192	mg/L	0.014055	-0.00192	mg/L	0.014055	731.03%
B 249.772†	-283.2	-0.00738	mg/L	0.008391	-0.00738	mg/L	0.008391	113.73%
B 249.677†	240.4	0.009	mg/L	0.0014	0.009	mg/L	0.0014	15.43%
Ba 233.527†	13.0	0.00031	mg/L	0.000273	0.00031	mg/L	0.000273	87.73%
Be 313.107†	210.5	0.00007	mg/L	0.000047	0.00007	mg/L	0.000047	63.39%
Ca 317.933†	3.8	0.00071	mg/L	0.002875	0.00071	mg/L	0.002875	406.00%
Cd 228.802†	-0.6	-0.00006	mg/L	0.000302	-0.00006	mg/L	0.000302	487.81%
Cd 226.502†	-0.6	-0.00002	mg/L	0.000203	-0.00002	mg/L	0.000203	989.27%
Co 228.616†	5.0	0.00051	mg/L	0.000991	0.00051	mg/L	0.000991	194.63%
Cr 267.716†	10.8	0.00047	mg/L	0.000212	0.00047	mg/L	0.000212	44.76%
Cr 205.560†	4.2	0.00022	mg/L	0.000526	0.00022	mg/L	0.000526	242.78%
Cu 324.752†	-119.9	-0.00116	mg/L	0.000238	-0.00116	mg/L	0.000238	20.51%
Fe 238.204†	31.7	0.01026	mg/L	0.002664	0.01026	mg/L	0.002664	25.97%

9/24/14

Sequence No.: 22
Sample ID: MB-14879
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 307
Date Collected: 8/21/2014 7:38:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14879

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

RCRA only. RR 8/21/14

Mean Data: MB-14879

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	28539.0	96.156	%	0.8240				0.86%
Y 371.029	488803.6	93.262	%	0.9042				0.97%
Ag 328.068†	-21.1	-0.00026	mg/L	0.000252	-0.00026	mg/L	0.000252	98.10%
Al 396.153†	379.7	0.00856	mg/L	0.000480	0.00856	mg/L	0.000480	5.61%
As 188.979†	-2.9	-0.00656	mg/L	0.002855	-0.00656	mg/L	0.002855	43.51%
As 193.696†	-2.5	-0.00468	mg/L	0.004247	-0.00468	mg/L	0.004247	90.69%
B 249.772†	780.1	0.02032	mg/L	0.005754	0.02032	mg/L	0.005754	28.31%
B 249.677†	102.4	0.004	mg/L	0.0013	0.004	mg/L	0.0013	33.61%
Ba 233.527†	4.1	0.00010	mg/L	0.000387	0.00010	mg/L	0.000387	393.23%
Be 313.107†	-136.4	-0.00005	mg/L	0.000043	-0.00005	mg/L	0.000043	88.86%
Ca 317.933†	684.0	0.12867	mg/L	0.001484	0.12867	mg/L	0.001484	1.15%
Cd 228.802†	-0.5	-0.00006	mg/L	0.000349	-0.00006	mg/L	0.000349	624.75%
Cd 226.502†	-15.6	-0.00055	mg/L	0.000119	-0.00055	mg/L	0.000119	21.62%
Co 228.616†	0.2	0.00002	mg/L	0.000753	0.00002	mg/L	0.000753	>999.9%
Cr 267.716†	20.5	0.00090	mg/L	0.000121	0.00090	mg/L	0.000121	13.42%
Cr 205.560†	5.4	0.00028	mg/L	0.000822	0.00028	mg/L	0.000822	294.73%
Cu 324.752†	4142.0	0.04017	mg/L	0.000674	0.04017	mg/L	0.000674	1.68%
Fe 238.204†	242.2	0.07843	mg/L	0.004542	0.07843	mg/L	0.004542	5.79%
K 766.490†	877.6	0.35224	mg/L	0.055185	0.35224	mg/L	0.055185	15.67%
Mg 285.213†	67.5	0.00898	mg/L	0.000944	0.00898	mg/L	0.000944	10.52%
Mn 257.610†	210.6	0.00088	mg/L	0.000026	0.00088	mg/L	0.000026	2.92%
Mo 202.031†	2.9	0.00051	mg/L	0.000559	0.00051	mg/L	0.000559	108.83%
Ni 231.604†	388.6	0.02319	mg/L	0.000355	0.02319	mg/L	0.000355	1.53%
Pb 220.353†	-0.8	-0.00022	mg/L	0.001244	-0.00022	mg/L	0.001244	562.36%
Pb 217.000†	-6.6	-0.00834	mg/L	0.006053	-0.00834	mg/L	0.006053	72.54%
Sb 206.836†	-3.7	-0.00559	mg/L	0.007314	-0.00559	mg/L	0.007314	130.92%
Se 203.985†	-3.3	-0.00681	mg/L	0.006348	-0.00681	mg/L	0.006348	93.28%
Se 196.026†	-0.2	-0.00037	mg/L	0.013308	-0.00037	mg/L	0.013308	>999.9%
Sn 189.927†	3.8	0.00225	mg/L	0.001590	0.00225	mg/L	0.001590	70.70%
Ti 334.940†	396.1	0.00093	mg/L	0.000078	0.00093	mg/L	0.000078	8.35%
Tl 190.801†	0.6	0.00083	mg/L	0.007784	0.00083	mg/L	0.007784	936.34%
V 292.402†	-36.0	-0.00046	mg/L	0.000073	-0.00046	mg/L	0.000073	15.66%
Zn 206.200†	80.7	0.00517	mg/L	0.000247	0.00517	mg/L	0.000247	4.78%
U 424.167†	28.3	0.00594	mg/L	0.008624	0.00594	mg/L	0.008624	145.10%

Sequence No.: 23
Sample ID: LCS-14879
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 308
Date Collected: 8/21/2014 7:40:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14879

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

RCRA only. RR 8/21/14

Mean Data: LCS-14879

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 371.029 R	27405.8	92.338 %	0.3820			0.41%
Y 371.029	486835.5	92.887 %	0.3771			0.41%
Ag 328.068†	40870.0	0.49789 mg/L	0.003016	0.49789 mg/L	0.003016	0.61%
Al 396.153†	25948.3	0.58493 mg/L	0.004500	0.58493 mg/L	0.004500	0.77%
As 188.979†	221.8	0.49649 mg/L	0.008345	0.49649 mg/L	0.008345	1.68%
As 193.696†	267.6	0.50397 mg/L	0.004400	0.50397 mg/L	0.004400	0.87%
B 249.772†	18753.5	0.48855 mg/L	0.010667	0.48855 mg/L	0.010667	2.18%
B 249.677†	13688.1	0.513 mg/L	0.0039	0.513 mg/L	0.0039	0.76%
Ba 233.527†	20365.9	0.48913 mg/L	0.002189	0.48913 mg/L	0.002189	0.45%
Be 313.107†	1444434.5	0.51102 mg/L	0.001433	0.51102 mg/L	0.001433	0.28%
Ca 317.933†	264946.3	49.839 mg/L	0.0181	49.839 mg/L	0.0181	0.04%
Cd 228.802†	4580.4	0.49891 mg/L	0.004676	0.49891 mg/L	0.004676	0.94%
Cd 226.502†	13922.1	0.49024 mg/L	0.002989	0.49024 mg/L	0.002989	0.61%
Co 228.616†	4699.5	0.47899 mg/L	0.004739	0.47899 mg/L	0.004739	0.99%
Cr 267.716†	11313.2	0.49852 mg/L	0.003759	0.49852 mg/L	0.003759	0.75%
Cr 205.560†	9409.9	0.48967 mg/L	0.004447	0.48967 mg/L	0.004447	0.91%
Cu 324.752†	53120.2	0.51512 mg/L	0.002754	0.51512 mg/L	0.002754	0.53%
Fe 238.204†	1573.4	0.50957 mg/L	0.003340	0.50957 mg/L	0.003340	0.66%
K 766.490†	121871.9	48.915 mg/L	0.0954	48.915 mg/L	0.0954	0.20%
Mg 285.213†	382786.8	50.899 mg/L	0.0759	50.899 mg/L	0.0759	0.15%
Mn 257.610†	116116.6	0.48603 mg/L	0.002686	0.48603 mg/L	0.002686	0.55%
Mo 202.031†	2898.0	0.50645 mg/L	0.006020	0.50645 mg/L	0.006020	1.19%
Ni 231.604†	7882.7	0.47036 mg/L	0.004664	0.47036 mg/L	0.004664	0.99%
Pb 220.353†	1595.7	0.46763 mg/L	0.005136	0.46763 mg/L	0.005136	1.10%
Pb 217.000†	386.9	0.49222 mg/L	0.011075	0.49222 mg/L	0.011075	2.25%
Sb 206.836†	310.2	0.46610 mg/L	0.004848	0.46610 mg/L	0.004848	1.04%
Se 203.985†	219.2	0.45776 mg/L	0.019484	0.45776 mg/L	0.019484	4.26%
Se 196.026†	246.8	0.48047 mg/L	0.009390	0.48047 mg/L	0.009390	1.95%
Sn 189.927†	836.1	0.48897 mg/L	0.008655	0.48897 mg/L	0.008655	1.77%
Ti 334.940†	216445.7	0.50919 mg/L	0.002988	0.50919 mg/L	0.002988	0.59%
Tl 190.801†	332.5	0.47165 mg/L	0.003157	0.47165 mg/L	0.003157	0.67%
V 292.402†	40468.7	0.52055 mg/L	0.004163	0.52055 mg/L	0.004163	0.80%
Zn 206.200†	7529.5	0.48179 mg/L	0.003360	0.48179 mg/L	0.003360	0.70%
U 424.167†	2192.1	0.46032 mg/L	0.021346	0.46032 mg/L	0.021346	4.64%

Matrix Recovery Check: LCS-14879

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ca 317.933	50.129	49.839	0.018	mg/L	99.4
Fe 238.204	0.57843	0.50957	0.003	mg/L	86.2
K 766.490	50.352	48.915	0.095	mg/L	97.1
Mg 285.213	50.009	50.899	0.076	mg/L	101.8
Ag 328.068	0.09974	0.49789	0.003	mg/L	498.1
Al 396.153	0.50856	0.58493	0.005	mg/L	115.3
As 188.979	0.49344	0.49649	0.008	mg/L	100.6
As 193.696	0.49532	0.50397	0.004	mg/L	101.7
B 249.772	0.52032	0.48855	0.011	mg/L	93.6
Ba 233.527	0.50010	0.48913	0.002	mg/L	97.8
Be 313.107	0.49995	0.51102	0.001	mg/L	102.2
Cd 228.802	0.49994	0.49891	0.005	mg/L	99.8
Cd 226.502	0.49945	0.49024	0.003	mg/L	98.2
Co 228.616	0.50002	0.47899	0.005	mg/L	95.8
Cr 267.716	0.50090	0.49852	0.004	mg/L	99.5
Cr 205.560	0.50028	0.48967	0.004	mg/L	97.9
Cu 324.752	0.54017	0.51512	0.003	mg/L	95.0
Mn 257.610	0.50088	0.48603	0.003	mg/L	97.0
Mo 202.031	0.50051	0.50645	0.006	mg/L	101.2
Ni 231.604	0.52319	0.47036	0.005	mg/L	89.4
Pb 220.353	0.49978	0.46763	0.005	mg/L	93.6
Pb 217.000	0.49166	0.49222	0.011	mg/L	100.1
Sb 206.836	0.49441	0.46610	0.005	mg/L	94.3
Se 203.985	0.49319	0.45776	0.019	mg/L	92.9
Se 196.026	0.49963	0.48047	0.009	mg/L	96.2
Sn 189.927	0.50225	0.48897	0.009	mg/L	97.3
Ti 334.940	0.50093	0.50919	0.003	mg/L	101.7
Tl 190.801	0.50083	0.47165	0.003	mg/L	94.2
V 292.402	0.49954	0.52055	0.004	mg/L	104.2
Zn 206.200	0.50517	0.48179	0.003	mg/L	95.3
U 424.167	0.50594	0.46032	0.021	mg/L	90.9

U 424.167	0.50536	0.41944	0.027	mg/L	82.8
B 249.677	0.507	0.504	0.011	mg/L	99.4

Sequence No.: 26 **Autosampler Location: 2**
Sample ID: CCV **Date Collected: 8/21/2014 7:46:09 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	27176.6	91.566	%	0.1137				0.12%
Y 371.029	489113.8	93.322	%	0.6310				0.68%
Ag 328.068†	40952.9	0.49890	mg/L	0.008750	0.49890	mg/L	0.008750	1.75%
QC value within limits for Ag 328.068 Recovery = 99.78%								
Al 396.153†	21663.6	0.48835	mg/L	0.006518	0.48835	mg/L	0.006518	1.33%
QC value within limits for Al 396.153 Recovery = 97.67%								
As 188.979†	218.0	0.48805	mg/L	0.003842	0.48805	mg/L	0.003842	0.79%
QC value within limits for As 188.979 Recovery = 97.61%								
As 193.696†	260.1	0.48972	mg/L	0.004530	0.48972	mg/L	0.004530	0.93%
B 249.772†	19747.6	0.51445	mg/L	0.004776	0.51445	mg/L	0.004776	0.93%
QC value within limits for B 249.772 Recovery = 102.89%								
B 249.677†	13598.6	0.509	mg/L	0.0053	0.509	mg/L	0.0053	1.03%
Ba 233.527†	20966.8	0.50356	mg/L	0.009490	0.50356	mg/L	0.009490	1.88%
QC value within limits for Ba 233.527 Recovery = 100.71%								
Be 313.107†	1399001.7	0.49495	mg/L	0.000474	0.49495	mg/L	0.000474	0.10%
QC value within limits for Be 313.107 Recovery = 98.99%								
Ca 317.933†	243.1	0.04574	mg/L	0.004690	0.04574	mg/L	0.004690	10.25%
Cd 228.802†	4649.9	0.50648	mg/L	0.002960	0.50648	mg/L	0.002960	0.58%
QC value within limits for Cd 228.802 Recovery = 101.30%								
Cd 226.502†	14219.4	0.50071	mg/L	0.009232	0.50071	mg/L	0.009232	1.84%
Co 228.616†	5002.6	0.50988	mg/L	0.005046	0.50988	mg/L	0.005046	0.99%
QC value within limits for Co 228.616 Recovery = 101.98%								
Cr 267.716†	11431.1	0.50371	mg/L	0.008937	0.50371	mg/L	0.008937	1.77%
Cr 205.560†	9562.3	0.49760	mg/L	0.004555	0.49760	mg/L	0.004555	0.92%
QC value within limits for Cr 205.560 Recovery = 99.52%								
Cu 324.752†	54175.2	0.52535	mg/L	0.007172	0.52535	mg/L	0.007172	1.37%
QC value within limits for Cu 324.752 Recovery = 105.07%								
Fe 238.204†	1551.7	0.50252	mg/L	0.007165	0.50252	mg/L	0.007165	1.43%
QC value within limits for Fe 238.204 Recovery = 100.50%								
K 766.490†	680.5	0.27312	mg/L	0.045219	0.27312	mg/L	0.045219	16.56%
Mg 285.213†	-1.6	-0.00021	mg/L	0.000995	-0.00021	mg/L	0.000995	468.37%
Mn 257.610†	122902.1	0.51444	mg/L	0.008945	0.51444	mg/L	0.008945	1.74%
QC value within limits for Mn 257.610 Recovery = 102.89%								
Mo 202.031†	2820.6	0.49293	mg/L	0.002732	0.49293	mg/L	0.002732	0.55%
QC value within limits for Mo 202.031 Recovery = 98.59%								
Ni 231.604†	8348.6	0.49816	mg/L	0.002240	0.49816	mg/L	0.002240	0.45%
QC value within limits for Ni 231.604 Recovery = 99.63%								
Pb 220.353†	1671.3	0.48978	mg/L	0.002701	0.48978	mg/L	0.002701	0.55%
QC value within limits for Pb 220.353 Recovery = 97.96%								
Pb 217.000†	387.2	0.49258	mg/L	0.007329	0.49258	mg/L	0.007329	1.49%
Sb 206.836†	325.7	0.48947	mg/L	0.009735	0.48947	mg/L	0.009735	1.99%
QC value within limits for Sb 206.836 Recovery = 97.89%								
Se 203.985†	230.5	0.48138	mg/L	0.008575	0.48138	mg/L	0.008575	1.78%
Se 196.026†	261.3	0.50863	mg/L	0.004486	0.50863	mg/L	0.004486	0.88%
QC value within limits for Se 196.026 Recovery = 101.73%								
Sn 189.927†	834.9	0.48827	mg/L	0.004660	0.48827	mg/L	0.004660	0.95%
QC value within limits for Sn 189.927 Recovery = 97.65%								
Ti 334.940†	212815.8	0.50065	mg/L	0.008874	0.50065	mg/L	0.008874	1.77%
QC value within limits for Ti 334.940 Recovery = 100.13%								
Tl 190.801†	354.2	0.50240	mg/L	0.010655	0.50240	mg/L	0.010655	2.12%

QC value within limits for Tl 190.801 Recovery = 100.48%

V 292.402†	39185.6	0.50405 mg/L	0.010747	0.50405 mg/L	0.010747	2.13%

QC value within limits for V 292.402 Recovery = 100.81%

Zn 206.200†	7701.3	0.49278 mg/L	0.002979	0.49278 mg/L	0.002979	0.60%

QC value within limits for Zn 206.200 Recovery = 98.56%

U 424.167†	2268.2	0.47628 mg/L	0.005536	0.47628 mg/L	0.005536	1.16%

QC value within limits for U 424.167 Recovery = 95.26%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/21/2014 7:48:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	233.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	28636.4	96.485	%	0.3709				0.38%
Y 371.029	516025.5	98.456	%	0.8019				0.81%
Ag 328.068†	-16.2	-0.00020	mg/L	0.000149	-0.00020	mg/L	0.000149	75.45%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-13.9	-0.00031	mg/L	0.000218	-0.00031	mg/L	0.000218	69.70%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-3.9	-0.00863	mg/L	0.005763	-0.00863	mg/L	0.005763	66.81%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.2	0.00045	mg/L	0.006428	0.00045	mg/L	0.006428	>999.9%
B 249.772†	373.9	0.00974	mg/L	0.007311	0.00974	mg/L	0.007311	75.06%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	45.5	0.002	mg/L	0.0008	0.002	mg/L	0.0008	49.40%
Ba 233.527†	0.0	0.00000	mg/L	0.000081	0.00000	mg/L	0.000081	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-198.1	-0.00007	mg/L	0.000031	-0.00007	mg/L	0.000031	44.49%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-12.9	-0.00243	mg/L	0.001637	-0.00243	mg/L	0.001637	67.36%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-0.8	-0.00009	mg/L	0.000206	-0.00009	mg/L	0.000206	226.30%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-2.8	-0.00010	mg/L	0.000033	-0.00010	mg/L	0.000033	33.39%
Co 228.616†	6.7	0.00068	mg/L	0.000640	0.00068	mg/L	0.000640	93.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	5.1	0.00022	mg/L	0.000315	0.00022	mg/L	0.000315	140.59%
Cr 205.560†	5.2	0.00027	mg/L	0.000181	0.00027	mg/L	0.000181	66.68%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	126.5	0.00123	mg/L	0.000195	0.00123	mg/L	0.000195	15.89%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	11.0	0.00356	mg/L	0.003511	0.00356	mg/L	0.003511	98.59%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	279.9	0.11234	mg/L	0.029632	0.11234	mg/L	0.029632	26.38%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-10.3	-0.00137	mg/L	0.002172	-0.00137	mg/L	0.002172	158.10%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-10.6	-0.00004	mg/L	0.000031	-0.00004	mg/L	0.000031	70.76%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	3.5	0.00061	mg/L	0.000343	0.00061	mg/L	0.000343	55.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	5.8	0.00035	mg/L	0.000293	0.00035	mg/L	0.000293	84.71%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.4	-0.00040	mg/L	0.001024	-0.00040	mg/L	0.001024	258.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-2.7	-0.00345	mg/L	0.004921	-0.00345	mg/L	0.004921	142.65%
Sb 206.836†	1.7	0.00252	mg/L	0.005069	0.00252	mg/L	0.005069	201.00%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 203.985†	-2.1	-0.00443 mg/L	0.025042	-0.00443 mg/L	0.025042	565.19%
Se 196.026†	-1.2	-0.00234 mg/L	0.011110	-0.00234 mg/L	0.011110	475.04%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-3.6	-0.00212 mg/L	0.002832	-0.00212 mg/L	0.002832	133.65%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 334.940†	0.1	0.00000 mg/L	0.000015	0.00000 mg/L	0.000015	>999.9%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801†	2.4	0.00334 mg/L	0.000876	0.00334 mg/L	0.000876	26.21%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	-24.6	-0.00032 mg/L	0.000176	-0.00032 mg/L	0.000176	55.63%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 206.200†	1.3	0.00008 mg/L	0.000195	0.00008 mg/L	0.000195	238.30%

QC value within limits for Zn 206.200 Recovery = Not calculated

U 424.167†	56.5	0.01187 mg/L	0.008796	0.01187 mg/L	0.008796	74.07%

QC value within limits for U 424.167 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/21/2014 7:49:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	232.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	28931.4	97.478	%	1.2697				1.30%
Y 371.029	500624.7	95.518	%	0.9754				1.02%
Ag 328.068†	183.5	0.00224	mg/L	0.000163	0.00224	mg/L	0.000163	7.30%
Al 396.153†	-84.3	-0.00190	mg/L	0.000312	-0.00190	mg/L	0.000312	16.41%
As 188.979†	0.9	0.00190	mg/L	0.003673	0.00190	mg/L	0.003673	192.96%
As 193.696†	-7.9	-0.01487	mg/L	0.005192	-0.01487	mg/L	0.005192	34.93%
B 249.772†	-1421.4	-0.03703	mg/L	0.002816	-0.03703	mg/L	0.002816	7.61%
B 249.677†	-2.2	-0.000	mg/L	0.0014	-0.000	mg/L	0.0014	>999.9%
Ba 233.527†	20.2	0.00048	mg/L	0.000413	0.00048	mg/L	0.000413	85.29%
Be 313.107†	362.5	0.00013	mg/L	0.000038	0.00013	mg/L	0.000038	29.70%
Ca 317.933†	269439.6	50.684	mg/L	0.1397	50.684	mg/L	0.1397	0.28%
QC value within limits for Ca 317.933 Recovery = 101.37%								
Cd 228.802†	-11.4	-0.00125	mg/L	0.000329	-0.00125	mg/L	0.000329	26.42%
Cd 226.502†	2.2	0.00008	mg/L	0.000177	0.00008	mg/L	0.000177	229.81%
Co 228.616†	23.0	0.00235	mg/L	0.001273	0.00235	mg/L	0.001273	54.19%
Cr 267.716†	22.5	0.00099	mg/L	0.000074	0.00099	mg/L	0.000074	7.43%
Cr 205.560†	-17.3	-0.00090	mg/L	0.000272	-0.00090	mg/L	0.000272	30.16%
Cu 324.752†	-173.0	-0.00168	mg/L	0.000267	-0.00168	mg/L	0.000267	15.91%
Fe 238.204†	17.5	0.00567	mg/L	0.002097	0.00567	mg/L	0.002097	36.97%
K 766.490†	123066.0	49.394	mg/L	0.1561	49.394	mg/L	0.1561	0.32%
QC value within limits for K 766.490 Recovery = 98.79%								
Mg 285.213†	382086.6	50.806	mg/L	0.1640	50.806	mg/L	0.1640	0.32%
QC value within limits for Mg 285.213 Recovery = 101.61%								
Mn 257.610†	6.9	0.00003	mg/L	0.000049	0.00003	mg/L	0.000049	171.38%
Mo 202.031†	4.6	0.00080	mg/L	0.000558	0.00080	mg/L	0.000558	69.99%
Ni 231.604†	-11.3	-0.00068	mg/L	0.000508	-0.00068	mg/L	0.000508	75.11%
Pb 220.353†	2.0	0.00059	mg/L	0.000450	0.00059	mg/L	0.000450	76.69%
Pb 217.000†	-2.5	-0.00314	mg/L	0.004068	-0.00314	mg/L	0.004068	129.45%
Sb 206.836†	-16.9	-0.02545	mg/L	0.004583	-0.02545	mg/L	0.004583	18.01%
Se 203.985†	-27.6	-0.05759	mg/L	0.004319	-0.05759	mg/L	0.004319	7.50%
Se 196.026†	-20.9	-0.04074	mg/L	0.023381	-0.04074	mg/L	0.023381	57.39%
Sn 189.927†	10.3	0.00604	mg/L	0.002195	0.00604	mg/L	0.002195	36.34%
Ti 334.940†	-124.3	-0.00029	mg/L	0.000039	-0.00029	mg/L	0.000039	13.31%
Tl 190.801†	11.4	0.01612	mg/L	0.005918	0.01612	mg/L	0.005918	36.71%
V 292.402†	122.9	0.00158	mg/L	0.000235	0.00158	mg/L	0.000235	14.84%

Zn 206.200†	24.6	0.00157 mg/L	0.000125	0.00157 mg/L	0.000125	7.91%
U 424.167†	-187.8	-0.03944 mg/L	0.007641	-0.03944 mg/L	0.007641	19.37%

All analyte(s) passed QC.
User canceled analysis.

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Analysis Begun

Start Time: 8/21/2014 7:52:12 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/21/2014 5:45:00 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082114 B14864.sif
Batch ID: 082114 B14864
Results Data Set: 082114 B14864
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 29
Sample ID: 1408890-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 311
Date Collected: 8/21/2014 7:52:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1408890-001A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1408890-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	467192.6	89.139	%	0.5933				0.67%
Ag 328.068†	-23.0	-0.00028	mg/L	0.000128	-0.00028	mg/L	0.000128	45.63%
As 188.979†	41.7	0.09333	mg/L	0.011475	0.09333	mg/L	0.011475	12.30%
As 193.696†	-10.1	-0.01896	mg/L	0.004519	-0.01896	mg/L	0.004519	23.84%
Ba 233.527†	11286.1	0.27106	mg/L	0.001072	0.27106	mg/L	0.001072	0.40%
Cd 228.802†	8.2	0.00089	mg/L	0.000378	0.00089	mg/L	0.000378	42.36%
Cd 226.502†	42.0	0.00148	mg/L	0.000134	0.00148	mg/L	0.000134	9.06%
Cr 267.716†	61.6	0.00271	mg/L	0.000375	0.00271	mg/L	0.000375	13.81%
Cr 205.560†	15.5	0.00080	mg/L	0.000624	0.00080	mg/L	0.000624	77.53%
Pb 220.353†	3.3	0.00097	mg/L	0.002201	0.00097	mg/L	0.002201	226.84%
Pb 217.000†	0.8	0.00098	mg/L	0.008709	0.00098	mg/L	0.008709	890.70%
Se 203.985†	-49.6	-0.10362	mg/L	0.013103	-0.10362	mg/L	0.013103	12.64%
Se 196.026†	-23.4	-0.04558	mg/L	0.009849	-0.04558	mg/L	0.009849	21.61%

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Sequence No.: 30
Sample ID: 1408900-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 312
Date Collected: 8/21/2014 7:53:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408900-001A

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 1408900-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	463643.0	88.462	%	0.3618				0.41%
Ag 328.068†	-87.4	-0.00106	mg/L	0.000100	-0.00106	mg/L	0.000100	9.40%
As 188.979†	2.5	0.00557	mg/L	0.010252	0.00557	mg/L	0.010252	184.19%
As 193.696†	-4.2	-0.00789	mg/L	0.009661	-0.00789	mg/L	0.009661	122.43%
Ba 233.527†	82155.9	1.9731	mg/L	0.00281	1.9731	mg/L	0.00281	0.14%

All 237.0 kPa 0.55 L/min

Mean Data: 1408900-001AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	454804.9	86.776	%	0.3226				0.37%
Ag 328.068†	41070.1	0.50033	mg/L	0.001531	0.50033	mg/L	0.001531	0.31%
As 188.979†	223.0	0.49909	mg/L	0.004684	0.49909	mg/L	0.004684	0.94%
As 193.696†	254.7	0.47959	mg/L	0.001726	0.47959	mg/L	0.001726	0.36%
Ba 233.527†	98338.9	2.3618	mg/L	0.00083	2.3618	mg/L	0.00083	0.04%
Cd 228.802†	4383.7	0.47748	mg/L	0.003505	0.47748	mg/L	0.003505	0.73%
Cd 226.502†	12390.7	0.43631	mg/L	0.000900	0.43631	mg/L	0.000900	0.21%
Cr 267.716†	10196.1	0.44929	mg/L	0.001418	0.44929	mg/L	0.001418	0.32%
Cr 205.560†	8628.5	0.44900	mg/L	0.004539	0.44900	mg/L	0.004539	1.01%
Pb 220.353†	1443.6	0.42307	mg/L	0.000759	0.42307	mg/L	0.000759	0.18%
Pb 217.000†	374.9	0.47694	mg/L	0.016008	0.47694	mg/L	0.016008	3.36%
Se 203.985†	209.5	0.43754	mg/L	0.039193	0.43754	mg/L	0.039193	8.96%
Se 196.026†	226.8	0.44148	mg/L	0.022153	0.44148	mg/L	0.022153	5.02%

Matrix Recovery Check: 1408900-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09894	0.50033	0.002	mg/L	501.4
As 188.979	0.50557	0.49909	0.005	mg/L	98.7
As 193.696	0.49211	0.47959	0.002	mg/L	97.5
Ba 233.527	2.4731	2.3618	0.001	mg/L	77.7
Cd 228.802	0.49779	0.47748	0.004	mg/L	95.9
Cd 226.502	0.49923	0.43631	0.001	mg/L	87.4
Cr 267.716	0.50196	0.44929	0.001	mg/L	89.5
Cr 205.560	0.50018	0.44900	0.005	mg/L	89.8
Pb 220.353	0.50785	0.42307	0.001	mg/L	83.0
Pb 217.000	0.49207	0.47694	0.016	mg/L	97.0
Se 203.985	0.46899	0.43754	0.039	mg/L	93.7
Se 196.026	0.44807	0.44148	0.022	mg/L	98.7

==========

Sequence No.: 33 **Autosampler Location: 315**
Sample ID: 1408994-001A **Date Collected: 8/21/2014 7:57:06 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408994-001A

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408994-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	552640.4	105.44	%	0.739				0.70%
Ag 328.068†	-139.3	-0.00170	mg/L	0.000109	-0.00170	mg/L	0.000109	6.44%
As 188.979†	18.8	0.04214	mg/L	0.007872	0.04214	mg/L	0.007872	18.68%
As 193.696†	-83.1	-0.15653	mg/L	0.009913	-0.15653	mg/L	0.009913	6.33%
Ba 233.527†	159325.1	3.8265	mg/L	0.00387	3.8265	mg/L	0.00387	0.10%
Cd 228.802†	-9.9	-0.00107	mg/L	0.000128	-0.00107	mg/L	0.000128	11.90%
Cd 226.502†	-203.8	-0.00718	mg/L	0.000355	-0.00718	mg/L	0.000355	4.95%
Cr 267.716†	2567.4	0.11313	mg/L	0.001825	0.11313	mg/L	0.001825	1.61%
Cr 205.560†	1899.8	0.09886	mg/L	0.002262	0.09886	mg/L	0.002262	2.29%
Pb 220.353†	146.8	0.04303	mg/L	0.003744	0.04303	mg/L	0.003744	8.70%
Pb 217.000†	75.3	0.09583	mg/L	0.003238	0.09583	mg/L	0.003238	3.38%
Se 203.985†	-35.8	-0.07485	mg/L	0.018543	-0.07485	mg/L	0.018543	24.77%
Se 196.026†	-29.8	-0.05793	mg/L	0.027402	-0.05793	mg/L	0.027402	47.31%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

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Sequence No.: 34 002A
Sample ID: 1408994-~~001A~~
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 316
Date Collected: 8/21/2014 7:58:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408994-~~001A~~

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408994-~~001A~~

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	616460.8	117.62	%	0.569				0.48%
Ag 328.068†	-233.4	-0.00284	mg/L	0.000193	-0.00284	mg/L	0.000193	6.79%
As 188.979†	27.3	0.06114	mg/L	0.005972	0.06114	mg/L	0.005972	9.77%
As 193.696†	-151.3	-0.28482	mg/L	0.018885	-0.28482	mg/L	0.018885	6.63%
Ba 233.527†	82003.6	1.9695	mg/L	0.00211	1.9695	mg/L	0.00211	0.11%
Cd 228.802†	-15.7	-0.00171	mg/L	0.000226	-0.00171	mg/L	0.000226	13.22%
Cd 226.502†	-293.0	-0.01032	mg/L	0.000224	-0.01032	mg/L	0.000224	2.17%
Cr 267.716†	4319.6	0.19034	mg/L	0.001226	0.19034	mg/L	0.001226	0.64%
Cr 205.560†	3112.7	0.16198	mg/L	0.000620	0.16198	mg/L	0.000620	0.38%
Pb 220.353†	1648.5	0.48312	mg/L	0.001551	0.48312	mg/L	0.001551	0.32%
Pb 217.000†	500.8	0.63702	mg/L	0.012983	0.63702	mg/L	0.012983	2.04%
Se 203.985†	-14.9	-0.03112	mg/L	0.027353	-0.03112	mg/L	0.027353	87.89%
Se 196.026†	-45.3	-0.08828	mg/L	0.010347	-0.08828	mg/L	0.010347	11.72%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

==========

Sequence No.: 35
Sample ID: 1408917-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 317
Date Collected: 8/21/2014 7:59:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408917-002A

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 1408917-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	549529.3	104.85	%	0.255				0.24%
Ag 328.068†	-155.9	-0.00190	mg/L	0.000323	-0.00190	mg/L	0.000323	17.00%
As 188.979†	31.2	0.06990	mg/L	0.004620	0.06990	mg/L	0.004620	6.61%
As 193.696†	-90.5	-0.17046	mg/L	0.002074	-0.17046	mg/L	0.002074	1.22%
Ba 233.527†	312979.3	7.5168	mg/L	0.00858	7.5168	mg/L	0.00858	0.11%
Cd 228.802†	2.5	0.00027	mg/L	0.000107	0.00027	mg/L	0.000107	39.86%
Cd 226.502†	-171.1	-0.00602	mg/L	0.000305	-0.00602	mg/L	0.000305	5.07%
Cr 267.716†	3118.2	0.13740	mg/L	0.000166	0.13740	mg/L	0.000166	0.12%
Cr 205.560†	2256.9	0.11744	mg/L	0.001306	0.11744	mg/L	0.001306	1.11%
Pb 220.353†	255.3	0.07481	mg/L	0.002071	0.07481	mg/L	0.002071	2.77%
Pb 217.000†	103.3	0.13142	mg/L	0.006463	0.13142	mg/L	0.006463	4.92%
Se 203.985†	3.9	0.00808	mg/L	0.009728	0.00808	mg/L	0.009728	120.37%
Se 196.026†	-31.5	-0.06141	mg/L	0.024167	-0.06141	mg/L	0.024167	39.35%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

==========

Sequence No.: 36
Sample ID: 1408917-002AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 318
Date Collected: 8/21/2014 8:00:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Se 196.026†	180.2	0.35089	mg/L	0.030132	0.35089	mg/L	0.030132	8.59%

Matrix Recovery Check: 1408917-002AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09810	0.40629	0.002	mg/L	408.2
As 188.979	0.56990	0.50154	0.017	mg/L	86.3
As 193.696	0.32954	0.12887	0.015	mg/L	59.9
Ba 233.527	8.0168	7.0861	0.012	mg/L	-86.1
Cd 228.802	0.50027	0.42782	0.007	mg/L	85.5
Cd 226.502	0.49398	0.38279	0.001	mg/L	77.8
Cr 267.716	0.63740	0.61126	0.002	mg/L	94.8
Cr 205.560	0.61744	0.58430	0.010	mg/L	93.4
Pb 220.353	0.57481	0.43667	0.006	mg/L	72.4
Pb 217.000	0.63142	0.58591	0.010	mg/L	90.9
Se 203.985	0.50808	0.39923	0.003	mg/L	78.2
Se 196.026	0.43859	0.35089	0.030	mg/L	82.5

Sequence No.: 38
Sample ID: 1408917-002APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 201
Date Collected: 8/21/2014 8:03:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408917-002APS

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408917-002APS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	550162.6	104.97	%	1.464				1.40%
Ag 328.068†	35720.4	0.43516	mg/L	0.002323	0.43516	mg/L	0.002323	0.53%
As 188.979†	221.5	0.49574	mg/L	0.022576	0.49574	mg/L	0.022576	4.55%
As 193.696†	134.6	0.25344	mg/L	0.018461	0.25344	mg/L	0.018461	7.28%
Ba 233.527†	330004.4	7.9257	mg/L	0.00439	7.9257	mg/L	0.00439	0.06%
Cd 228.802†	3889.9	0.42369	mg/L	0.006035	0.42369	mg/L	0.006035	1.42%
Cd 226.502†	10880.8	0.38314	mg/L	0.001063	0.38314	mg/L	0.001063	0.28%
Cr 267.716†	12274.6	0.54088	mg/L	0.002017	0.54088	mg/L	0.002017	0.37%
Cr 205.560†	9927.0	0.51658	mg/L	0.004494	0.51658	mg/L	0.004494	0.87%
Pb 220.353†	1532.2	0.44902	mg/L	0.005970	0.44902	mg/L	0.005970	1.33%
Pb 217.000†	431.2	0.54847	mg/L	0.004649	0.54847	mg/L	0.004649	0.85%
Se 203.985†	206.8	0.43180	mg/L	0.023787	0.43180	mg/L	0.023787	5.51%
Se 196.026†	195.7	0.38104	mg/L	0.009649	0.38104	mg/L	0.009649	2.53%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/21/2014 8:04:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	496778.1	94.784	%	0.8806				0.93%
Ag 328.068†	40650.5	0.49522	mg/L	0.001013	0.49522	mg/L	0.001013	0.20%

QC value within limits for Ag 328.068 Recovery = 99.04%

As 188.979†	218.1	0.48829 mg/L	0.007623	0.48829 mg/L	0.007623	1.56%
QC value within limits for As 188.979 Recovery = 97.66%						
As 193.696†	264.3	0.49776 mg/L	0.015603	0.49776 mg/L	0.015603	3.13%
Ba 233.527†	20825.6	0.50017 mg/L	0.001190	0.50017 mg/L	0.001190	0.24%
QC value within limits for Ba 233.527 Recovery = 100.03%						
Cd 228.802†	4664.7	0.50809 mg/L	0.004688	0.50809 mg/L	0.004688	0.92%
QC value within limits for Cd 228.802 Recovery = 101.62%						
Cd 226.502†	14143.1	0.49802 mg/L	0.001109	0.49802 mg/L	0.001109	0.22%
Cr 267.716†	11359.1	0.50054 mg/L	0.001176	0.50054 mg/L	0.001176	0.23%
Cr 205.560†	9651.4	0.50224 mg/L	0.005462	0.50224 mg/L	0.005462	1.09%
QC value within limits for Cr 205.560 Recovery = 100.45%						
Pb 220.353†	1678.0	0.49175 mg/L	0.007442	0.49175 mg/L	0.007442	1.51%
QC value within limits for Pb 220.353 Recovery = 98.35%						
Pb 217.000†	386.6	0.49179 mg/L	0.006934	0.49179 mg/L	0.006934	1.41%
Se 203.985†	238.1	0.49730 mg/L	0.010479	0.49730 mg/L	0.010479	2.11%
Se 196.026†	247.9	0.48263 mg/L	0.018508	0.48263 mg/L	0.018508	3.83%
QC value within limits for Se 196.026 Recovery = 96.53%						

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/21/2014 8:05:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	510936.6	97.485	%	0.6260				0.64%
Ag 328.068†	8.4	0.00010	mg/L	0.000203	0.00010	mg/L	0.000203	198.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-4.8	-0.01084	mg/L	0.006182	-0.01084	mg/L	0.006182	57.03%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.3	-0.00238	mg/L	0.002334	-0.00238	mg/L	0.002334	98.24%
Ba 233.527†	-3.8	-0.00009	mg/L	0.000112	-0.00009	mg/L	0.000112	123.85%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-1.3	-0.00014	mg/L	0.000369	-0.00014	mg/L	0.000369	256.33%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-9.5	-0.00034	mg/L	0.000059	-0.00034	mg/L	0.000059	17.62%
Cr 267.716†	-1.5	-0.00007	mg/L	0.000477	-0.00007	mg/L	0.000477	722.19%
Cr 205.560†	20.8	0.00108	mg/L	0.000414	0.00108	mg/L	0.000414	38.19%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	1.2	0.00036	mg/L	0.000819	0.00036	mg/L	0.000819	224.42%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.7	-0.00092	mg/L	0.003205	-0.00092	mg/L	0.003205	349.81%
Se 203.985†	-2.1	-0.00439	mg/L	0.021144	-0.00439	mg/L	0.021144	481.99%
Se 196.026†	-5.2	-0.01007	mg/L	0.005434	-0.01007	mg/L	0.005434	53.94%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/21/2014 8:07:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

✓ DF 9/4/2014

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-001 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0054 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.2 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Lab ID: 1409046-002 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0055 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.6 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Lab ID: 1409046-003 **Collection Date:** 9/2/2014 11:03:00 AM
Client Sample ID: FFOR-CF-0056 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.0 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Lab ID: 1409046-004 **Collection Date:** 9/2/2014 3:04:00 PM
Client Sample ID: FFOR-CF-0057 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	5.0 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-006 **Collection Date:** 9/2/2014 3:15:00 PM
Client Sample ID: FFOR-CF-0059 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.7 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Lab ID: 1409046-007 **Collection Date:** 9/2/2014 3:58:00 PM
Client Sample ID: FFOR-CF-0060 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	12 ✓	1.0		wt%	1	R20974	9/3/2014 9:20:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-3-14			Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 9-3-14 9:20am	Start Temp: 110C		Reviewed by: DF 9/4/2014
End time: 9-4-14 8:37am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1409046-001a	31.7 ✓	39.26 ✓				7.5520		#VALUE!
1409046-002a	32.0 ✓	39.34 ✓				7.3010		#VALUE!
1409046-003a	31.8 ✓	39.60 ✓				7.7870		#VALUE!
1409046-004a	32.0 ✓	39.78 ✓				7.7790		#VALUE!
1409046-005a	31.6 ✓	39.30 ✓				7.6570		#VALUE!
1409046-006a	31.9 ✓	39.82 ✓				7.9330		#VALUE!
1409046-007a	31.8 ✓	39.30 ✓				7.5180		#VALUE!
1409046-007a ms	31.9 ✓	39.90 ✓				8.0140		#VALUE!
1409046-007a msd	32.0 ✓	39.27 ✓				7.2960		#VALUE!
MeOH Kits								#VALUE!
1409046-001a	26.0 ✓	41.35 ✓	1.00	2.00	2.00	15.3500	0.0000	0.6515
1409046-002a	26.1 ✓	40.80 ✓	1.00	2.00	2.00	14.7000	0.0000	0.6803
1409046-003a	26.1 ✓	40.80 ✓	1.00	2.00	2.00	14.7000	0.0000	0.6803
1409046-004a	26.1 ✓	41.66 ✓	1.00	2.00	2.00	15.5600	0.0000	0.6427
1409046-005a	25.7 ✓	41.75 ✓	1.00	2.00	2.00	16.0500	0.0000	0.6231
1409046-006a	25.7 ✓	38.47 ✓	1.00	2.00	2.00	12.7700	0.0000	0.7831
1409046-007a	25.9 ✓	39.52 ✓	1.00	2.00	2.00	13.6200	0.0000	0.7342
1409046-007a ms	25.8 ✓	39.62 ✓	1.00	2.00	2.00	13.8200	0.0000	0.7236
1409046-007a msd	25.8 ✓	39.68 ✓	1.00	2.00	2.00	13.8800	0.0000	0.7205

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**
HEAL ID #

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**
HEAL ID #

1409046-002a $\frac{10g}{14.7g} = 0.6803$ cg 9-4-14

DF 9/4/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-3-14			Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 9-3-14 9:20am	Start Temp: 110C		Reviewed by: ✓ DF 9/4/2014
End time: 9-4-14 8:37am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Pmoist								#VALUE!
1409046-001a			1.31 ✓	20.40 ✓	18.83 ✓		8.2242	#VALUE!
1409046-002a			1.32 ✓	29.75 ✓	27.31 ✓		8.5825	#VALUE!
1409046-003a			1.31 ✓	20.57 ✓	19.41 ✓		6.0228	#VALUE!
1409046-004a			1.35 ✓	28.73 ✓	25.61 ✓		11.3952	#VALUE!
1409046-005a			1.33 ✓	25.77 ✓	24.55 ✓		4.9918	#VALUE!
1409046-006a			1.34 ✓	25.07 ✓	23.01 ✓		8.6810	#VALUE!
1409046-007a			1.38 ✓	22.98 ✓	20.45 ✓		11.7130	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1409046-007a $\frac{22.98 - 20.45}{22.98 - 1.38} \times 100 = 11.71307\%$

cg 9-4-14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

✓ DF 9/4/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/4/2014 9:16:18 A**
Prep End Date: **9/4/2014 10:27:51 A**

JA 9.5.14

Prep Batch ID: **15112** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

cg 9-5-14

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
1409046-001A	FFOR-CF-0054	MeOH (Soil)			7.552	0	0	5	0.662	9/4/2014	9/4/2014
1409046-001AMS		MeOH (Soil)			7.52	0	0	5	0.665	9/4/2014	9/4/2014
1409046-001AMSD		MeOH (Soil)			7.5	0	0	5	0.667	9/4/2014	9/4/2014
1409046-002A	FFOR-CF-0055	MeOH (Soil)			7.301	0	0	5	0.685	9/4/2014	9/4/2014
1409046-004A	FFOR-CF-0057	MeOH (Soil)			7.779	0	0	5	0.643	9/4/2014	9/4/2014
1409046-005A	FFOR-CF-0058	MeOH (Soil)			7.657	0	0	5	0.653	9/4/2014	9/4/2014
1409136-001A	FFOR-CF-0061	MeOH (Soil)			8.012	0	0	5	0.624	9/4/2014	9/4/2014
LCS-15112		Solid			5	0	0	5	1.000	9/4/2014	9/4/2014
MB-15112		Solid			5	0	0	5	1.000	9/4/2014	9/4/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8073	8260-5035 Low LCS/MS/MSD	lcs/ms/msd	26527	Container-01 of 01	1	µL

JR 9/5/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409046**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-001 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0054 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15080	9/3/2014 4:29:48 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15080	9/3/2014 4:29:48 PM
Surr: DNOP	90.9	57.9-140		%REC	1	15080	9/3/2014 4:29:48 PM

Lab ID: 1409046-002 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0055 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15080	9/3/2014 4:51:17 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15080	9/3/2014 4:51:17 PM
Surr: DNOP	99.2	57.9-140		%REC	1	15080	9/3/2014 4:51:17 PM

Lab ID: 1409046-003 **Collection Date:** 9/2/2014 11:03:00 AM
Client Sample ID: FFOR-CF-0056 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	990	11		mg/Kg-dry	1	15080	9/3/2014 5:12:51 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	15080	9/3/2014 5:12:51 PM
Surr: DNOP	91.8	57.9-140		%REC	1	15080	9/3/2014 5:12:51 PM

Lab ID: 1409046-004 **Collection Date:** 9/2/2014 3:04:00 PM
Client Sample ID: FFOR-CF-0057 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15080	9/3/2014 5:34:17 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	15080	9/3/2014 5:34:17 PM
Surr: DNOP	95.4	57.9-140		%REC	1	15080	9/3/2014 5:34:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	9.4	10	J	mg/Kg-dry	1	15080	9/3/2014 5:55:52 PM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dry	1	15080	9/3/2014 5:55:52 PM
Surr: DNOP	95.7	57.9-140		%REC	1	15080	9/3/2014 5:55:52 PM

Lab ID: 1409046-006 **Collection Date:** 9/2/2014 3:15:00 PM
Client Sample ID: FFOR-CF-0059 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	4500	110		mg/Kg-dry	10	15080	9/4/2014 9:56:40 AM
Motor Oil Range Organics (MRO)	ND	540		mg/Kg-dry	10	15080	9/4/2014 9:56:40 AM
Surr: DNOP	0	57.9-140	S	%REC	10	15080	9/4/2014 9:56:40 AM

Lab ID: 1409046-007 **Collection Date:** 9/2/2014 3:58:00 PM
Client Sample ID: FFOR-CF-0060 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	1900	110		mg/Kg-dry	10	15080	9/4/2014 10:17:54 AM
Motor Oil Range Organics (MRO)	ND	570		mg/Kg-dry	10	15080	9/4/2014 10:17:54 AM
Surr: DNOP	0	57.9-140	S	%REC	10	15080	9/4/2014 10:17:54 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Batch ID: **15080** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**

Initial Temp: **°C** Final Temp **°C** BN 9.3.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
LCS-15080		Soil			10	0	0	10	1.000	9/3/2014	9/3/2014
MB-15080		Soil			10	0	0	10	1.000	9/3/2014	9/3/2014
1409031-001A	641+10	Soil			10.08	0	0	10	0.992	9/3/2014	9/3/2014
1409031-002A	642+00	Soil			10.19	0	0	10	0.981	9/3/2014	9/3/2014
1409031-003A	639+80	Soil			10.05	0	0	10	0.995	9/3/2014	9/3/2014
1409046-001A	FFOR-CF-0054	MeOH (Soil)			10.01	0	0	10	0.999	9/3/2014	9/3/2014
1409046-002A	FFOR-CF-0055	MeOH (Soil)			10.07	0	0	10	0.993	9/3/2014	9/3/2014
1409046-003A	FFOR-CF-0056	MeOH (Soil)			10.06	0	0	10	0.994	9/3/2014	9/3/2014
1409046-004A	FFOR-CF-0057	MeOH (Soil)			10.06	0	0	10	0.994	9/3/2014	9/3/2014
1409046-005A	FFOR-CF-0058	MeOH (Soil)			10.03	0	0	10	0.997	9/3/2014	9/3/2014
1409046-006A	FFOR-CF-0059	MeOH (Soil)			10.05	0	0	10	0.995	9/3/2014	9/3/2014
1409046-007A	FFOR-CF-0060	MeOH (Soil)			9.99	0	0	10	1.001	9/3/2014	9/3/2014
1409046-007AMS		MeOH (Soil)			10.16	0	0	10	0.984	9/3/2014	9/3/2014
1409046-007AMSD		MeOH (Soil)			9.92	0	0	10	1.008	9/3/2014	9/3/2014
1408F43-001A	Pit 63-7a-63-7e Comp	Soil			9.95	0	0	10	1.005	9/3/2014	9/3/2014
1408G09-001A	SC-1	Soil			10 10.05	0	0	10	1.000	9/3/2014	
1408G09-002A	SC-2	Soil			10 10.11	0	0	10	1.000	9/3/2014	
1408G09-003A	SC-5	Soil			10 10.08	0	0	10	1.000	9/3/2014	
1408G09-004A	SC-7	Soil			10 10.07	0	0	10	1.000	9/3/2014	
1408G09-005A	SC-8	Soil			10 10.02	0	0	10	1.000	9/3/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4718	Ottawa Sand	15185	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Sequence Print

BW 9.4.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408F14-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F14-001A <D>.dat	1
6	Unknown	0	1	1408F14-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F14-002A <D>.dat	1
7	Unknown	0	1	MB-15081	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15081 <D>.dat	1
8	Unknown	0	1	LCS-15081	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15081 <D>.dat	1
9	Unknown	0	1	1408F01-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F01-001A <D>.dat	1
10	Unknown	0	1	1409047-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-001A <D>.dat	1
11	Unknown	0	1	1409047-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-002A <D>.dat	1
12	Unknown	0	1	1409047-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-003A <D>.dat	1
13	Unknown	0	1	1409047-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-004A <D>.dat	1
14	Unknown	0	1	1409047-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-005A <D>.dat	1
15	Unknown	0	1	1409047-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-004A <D>.dat	1
16	Unknown	0	1	1409047-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409047-005A <D>.dat	1
17	Unknown	0	1	1408F01-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F01-001A <D>.dat	1
18	Unknown	0	2	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1

9/4/14

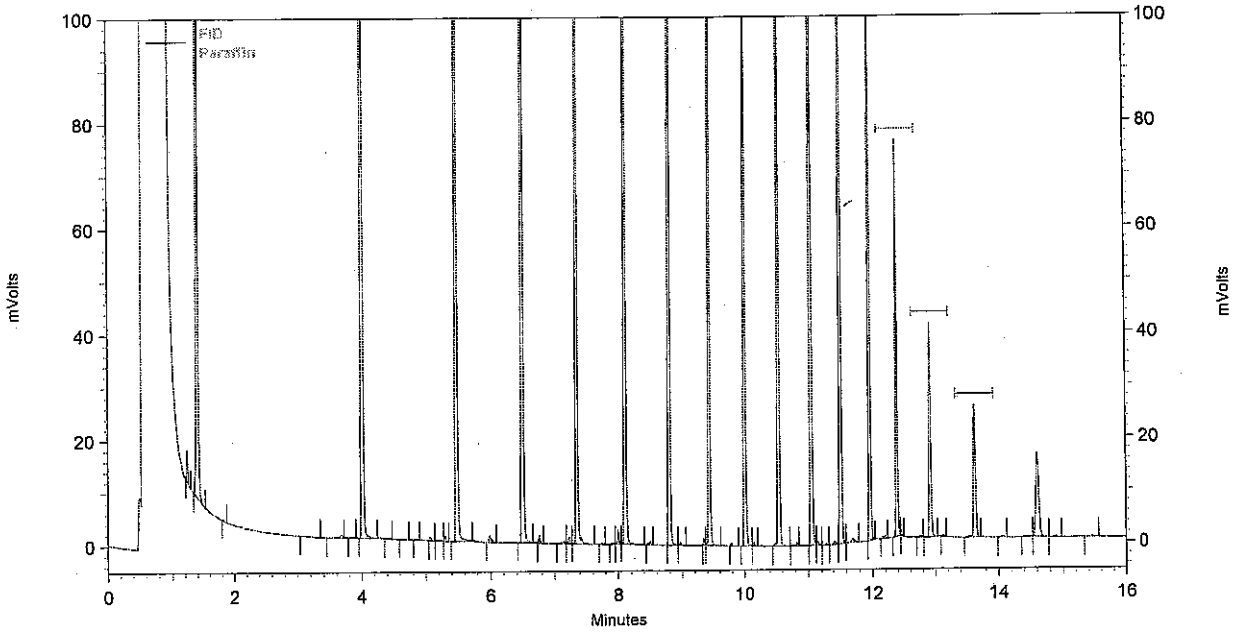
BN 9.4.14

19	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
20	Unknown	0	1	MB-15080	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15080 <D>.dat	1
21	Unknown	0	1	LCS-15080	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15080 <D>.dat	1
22	Unknown	0	1	1409046-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-001A <D>.dat	1
23	Unknown	0	1	1409046-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-002A <D>.dat	1
24	Unknown	0	1	1409046-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-003A <D>.dat	1
25	Unknown	0	1	1409046-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-004A <D>.dat	1
26	Unknown	0	1	1409046-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-005A <D>.dat	1
27	Unknown	0	1	1409046-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-006A <D>.dat	1
28	Unknown	0	1	1409046-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-007A <D>.dat	1
29	Unknown	0	1	1409046-007AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-007A MS <D>.dat	1
30	Unknown	0	1	1409046-007AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-007A MSD <D>.dat	1
31	Unknown	0	1	1408G09-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408G09-001A <D>.dat	1
32	Unknown	0	1	1408G09-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408G09-002A <D>.dat	1
33	Unknown	0	1	1408G09-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408G09-003A <D>.dat	1
34	Unknown	0	1	1408G09-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408G09-004A <D>.dat	1
35	Unknown	0	1	1408G09-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408G09-005A <D>.dat	1
36	Unknown	0	2	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
37	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

9/4/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090314\Paraffin 09-03-14 7-17-30 AM.dat
Aquired: 9/3/2014 7:22:36 AM



FID Results

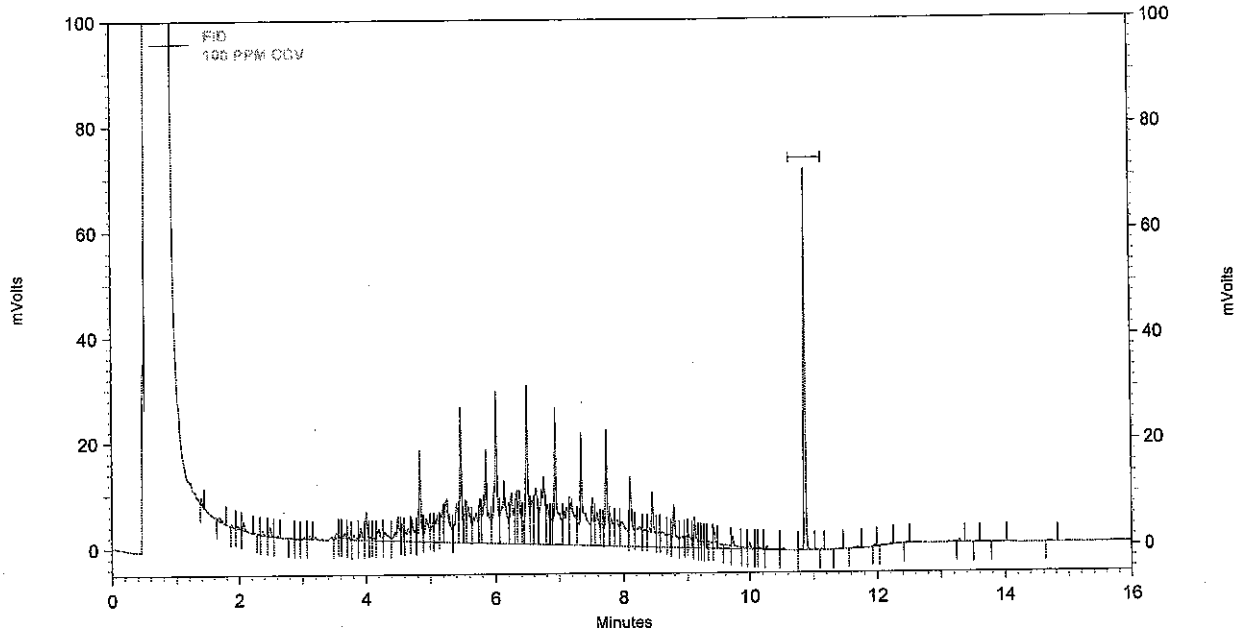
Name	Retention Time	Area	ug/ml
C8	1.397	419747	0.000
C10	4.005	512006	0.000
C12	5.472	483900	0.000
C14	6.491	449798	0.000
C16	7.344	422197	0.000
C18	8.101	393015	0.000
C20	8.789	377097	0.000
C22	9.424	356913	0.000
C24	10.005	339770	0.000
C26	10.539	341568	0.000
C28	11.040	323387	0.000
C30	11.515	272280	0.000
C32	11.952	189235	0.000
C34	12.384	113757	0.000
C36	12.917	76310	0.000
C38	13.632	58718	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090314\100 PPM CCV 09-03-14 7-38-43 AM.dat
Aquired: 9/3/2014 7:43:59 AM



FID Results

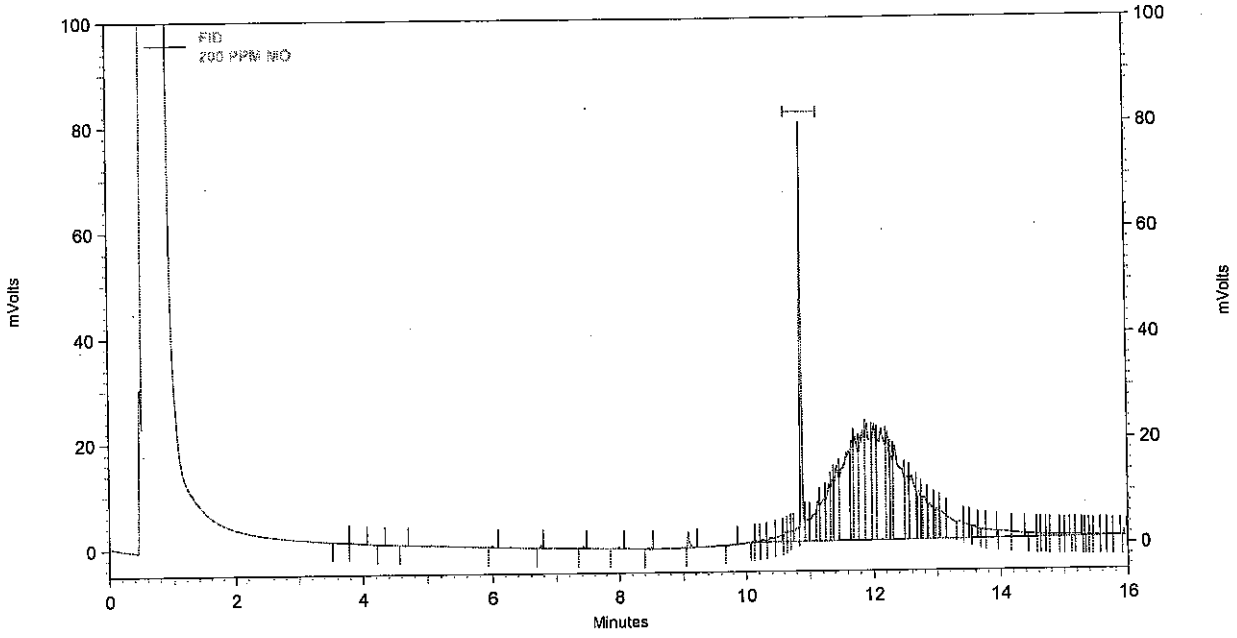
Name	Retention Time	Area	ug/ml
DNOP	10.869	100818	8.954
DRO		1538477	93.429
MRO		5732	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090314\200 PPM MO 09-03-14 8-00-07 AM.dat
Aquired: 9/3/2014 8:05:19 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	122129	10.828
DRO		26692	3.662
MRO		1479622	184.275

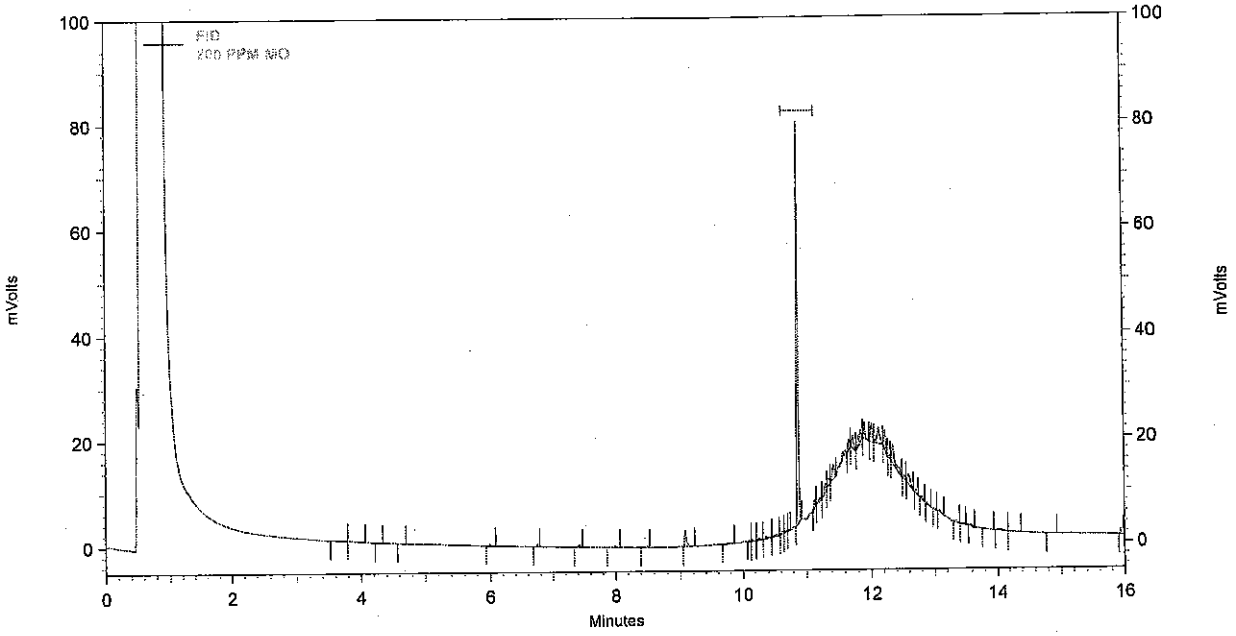
Analyst BN

Reviewed By

10.828
- 9.368
1.4p
+184.275
185.735
200 x100
= 92.86 %

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090314\200 PPM MO 09-03-14 8-00-07 AM.dat
Aquired: 9/3/2014 8:05:19 AM



FID Results

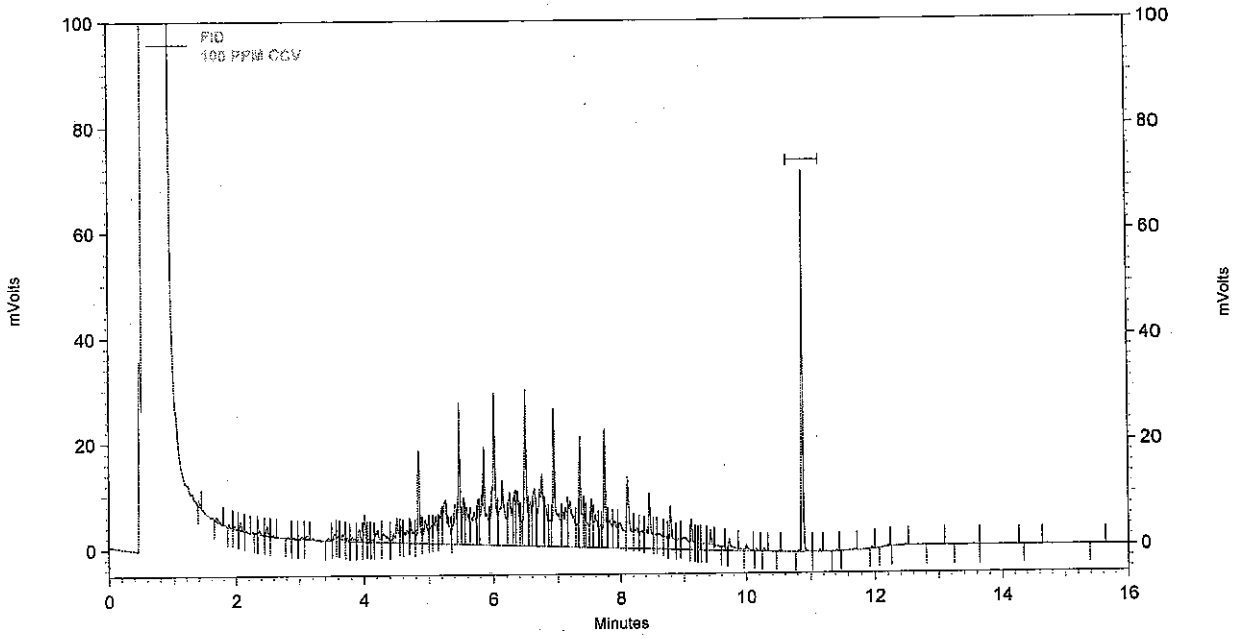
Name	Retention Time	Area	ug/ml
DNOP	10.869	105526	9.368
DRO		17473	3.113
MRO		92266	0.119

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-03-14 3-19-49 PM.dat
Aquired: 9/3/2014 3:25:13 PM



FID Results

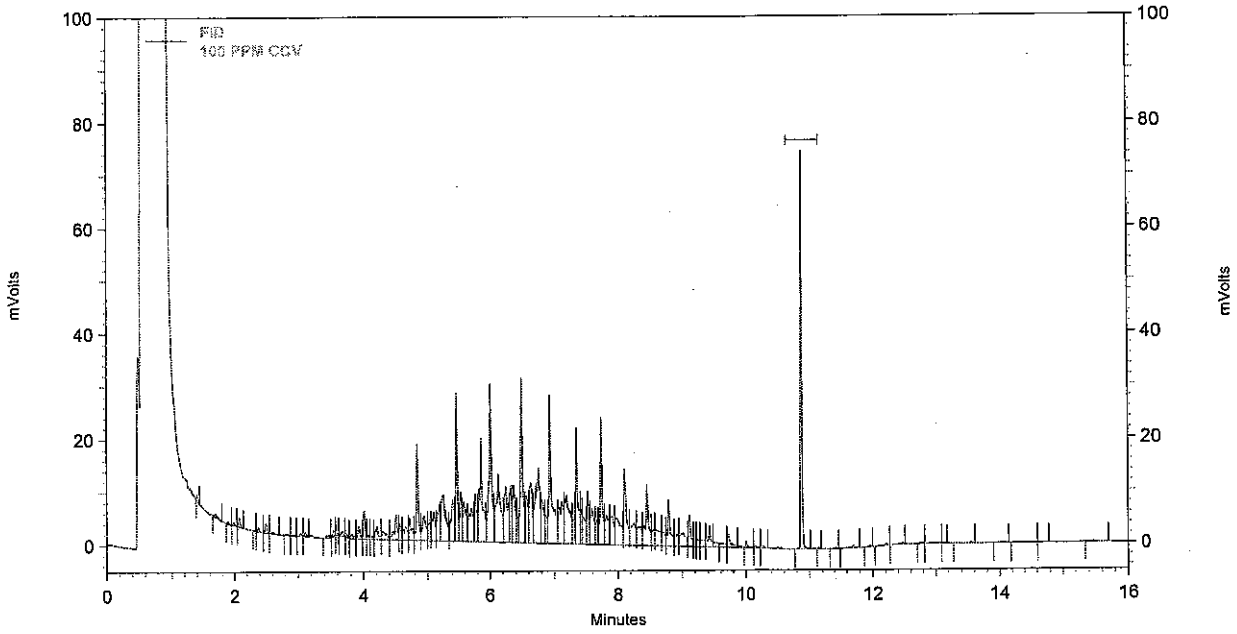
Name	Retention Time	Area	ug/ml
DNOP	10.875	100149	8.895
DRO		1569068	95.239
MRO		7148	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\100 PPM CCV 09-03-14 10-07-22 PM.dat
Aquired: 9/3/2014 10:12:36 PM



FID Results

Name	Retention Time	**Area**	**ug/ml**
DNOP	10.875	105909	9.402
DRO		1645257	99.746
MRO		10600	0.000

Analyst BW

Reviewed By

Sequence Print

BR 9.4.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-15106	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15106 <D>.dat	1
6	Unknown	0	1	LCS-15106	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15106 <D>.dat	1
7	Unknown	0	1	1409046-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-006A <D>.dat	1
8	Unknown	0	1	1409046-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409046-007A <D>.dat	1
9	Unknown	0	1	1409140-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409140-001A <D>.dat	1
10	Unknown	0	1	1409140-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409140-002A <D>.dat	1
11	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
12	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
13	Unknown	0	1	1409049-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-001A <D>.dat	1
14	Unknown	0	1	1409049-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-002A <D>.dat	1
15	Unknown	0	1	1409049-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-003A <D>.dat	1
16	Unknown	0	1	1409049-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-004A <D>.dat	1
17	Unknown	0	1	1409049-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-005A <D>.dat	1
18	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1

9/5/14

BN 9.4.14

19	Unknown	0	1	1408F15-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F15-003A <D>.dat	1
20	Unknown	0	1	1409049-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-002A <D>.dat	1
21	Unknown	0	1	1409049-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-003A <D>.dat	1
22	Unknown	0	1	1409049-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-004A <D>.dat	1
23	Unknown	0	1	1409049-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409049-005A <D>.dat	1
24	Unknown	0	1	1409050-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409050-001A <D>.dat	1
25	Unknown	0	5	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
26	Unknown	0	1	1408F15-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408F15-003A <D>.dat	1
27	Unknown	0	1	1409050-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409050-002A <D>.dat	1
28	Unknown	0	1	1409051-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409051-001A <D>.dat	1
29	Unknown	0	1	1409031-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409031-001A <D>.dat	1
30	Unknown	0	1	1409031-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409031-002A <D>.dat	1
31	Unknown	0	1	1409031-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409031-003A <D>.dat	1
32	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
33	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
34	Unknown	0	1	MB-15118	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15118 <D>.dat	1
35	Unknown	0	1	LCS-15118	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15118 <D>.dat	1
36	Unknown	0	1	1409039-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409039-001C <D>.dat	1
37	Unknown	0	1	1409039-001CMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409039-001CMS <D>.dat	1

BN 9.4.14 NOT RUN

JGE 9/5/14

Sequence Print

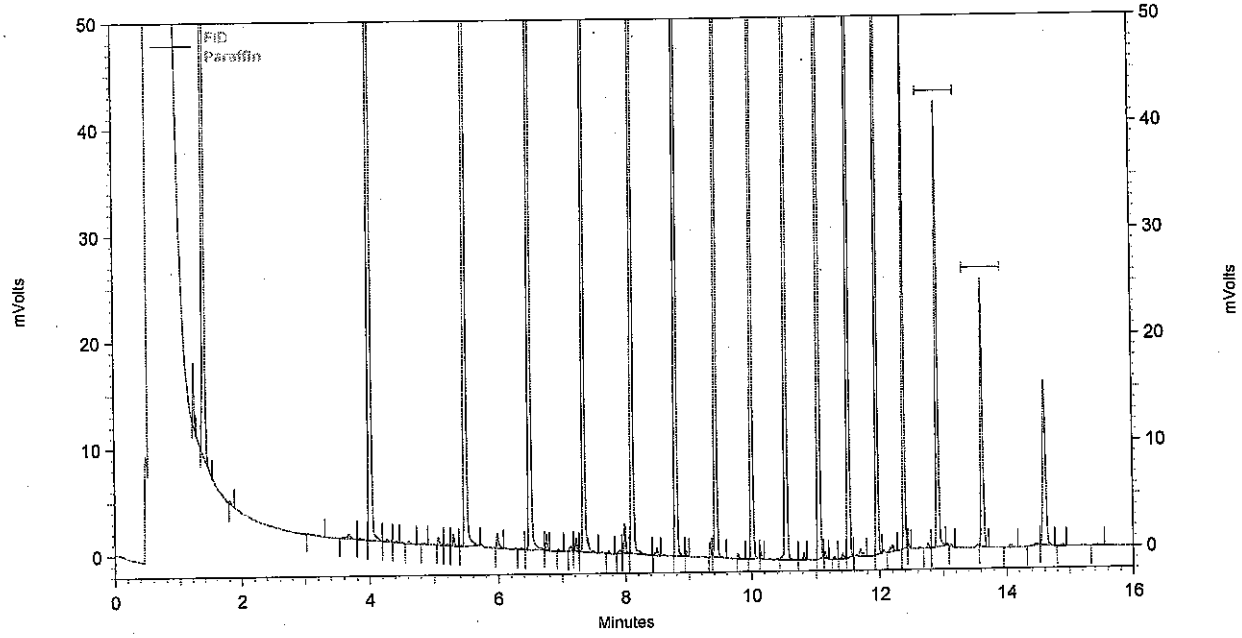
BW 9.9.14

38	Unknown	0	1	1409039-001CMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409039-001CMSD <D>.dat	1
39	Unknown	0	1	1409143-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409143-001B <D>.dat	1
40	Unknown	0	1	1409143-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409143-002B <D>.dat	1
41	Unknown	0	1	1409145-001B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-001B <D>.dat	1
42	Unknown	0	1	1409145-002B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-002B <D>.dat	1
43	Unknown	0	1	1409145-003B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-003B <D>.dat	1
44	Unknown	0	1	1409145-004B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-004B <D>.dat	1
45	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
46	Unknown	0	1	1409145-005B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-005B <D>.dat	1
47	Unknown	0	1	1409145-006B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-006B <D>.dat	1
48	Unknown	0	1	1409145-007B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-007B <D>.dat	1
49	Unknown	0	1	1409145-008B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-008B <D>.dat	1
50	Unknown	0	1	1409145-009B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-009B <D>.dat	1
51	Unknown	0	1	1409145-010B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-010B <D>.dat	1
52	Unknown	0	1	1409145-011B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-011B <D>.dat	1
53	Unknown	0	1	1409145-012B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-012B <D>.dat	1
54	Unknown	0	1	1409145-013B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-013B <D>.dat	1
55	Unknown	0	1	1409145-014B	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409145-014B <D>.dat	1
56	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

J JE 9/5/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\Paraffin 09-04-14 7-58-53 AM.dat
Aquired: 9/4/2014 8:04:03 AM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.397	427887	0.000
C10	4.005	525493	0.000
C12	5.472	503065	0.000
C14	6.485	474706	0.000
C16	7.344	446727	0.000
C18	8.101	417031	0.000
C20	8.789	399896	0.000
C22	9.419	378173	0.000
C24	10.000	360395	0.000
C26	10.539	361851	0.000
C28	11.040	341838	0.000
C30	11.515	285764	0.000
C32	11.952	196719	0.000
C34	12.384	116611	0.000
C36	12.917	77809	0.000
C38	13.627	57840	0.000

Analyst _____

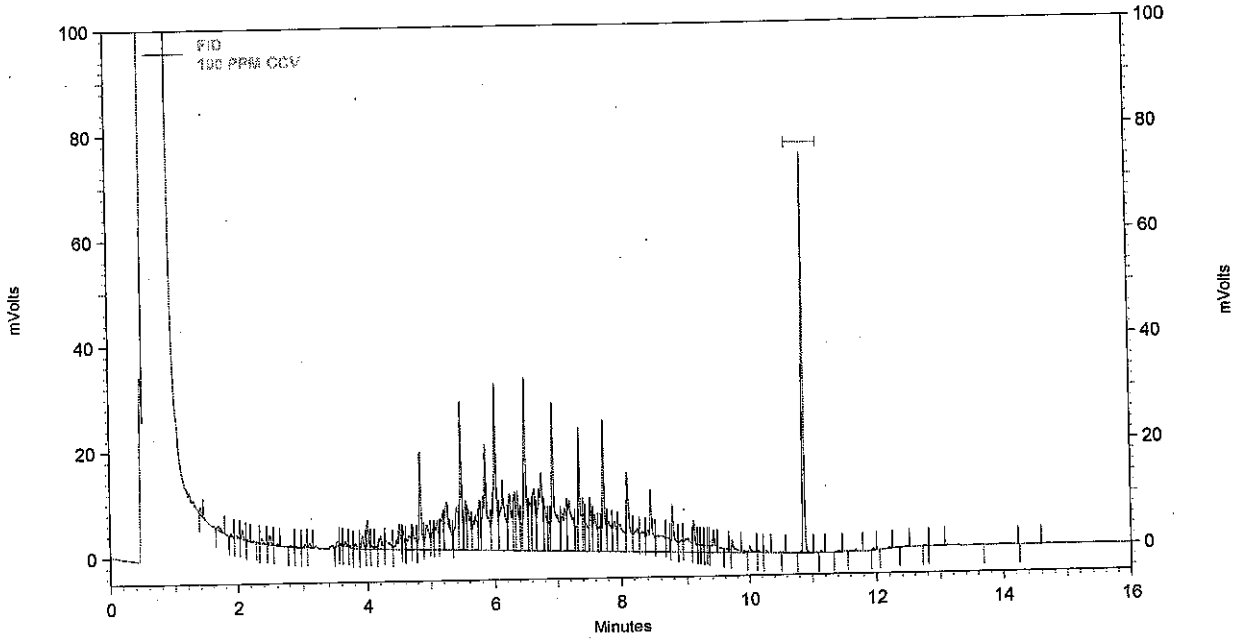
Reviewed By _____

Instrument: **Dante (Offline)**
Sample ID: **100 PPM CCV**

Vial #: **3**
Data Description: **SV109-1562**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\100 PPM CCV 09-04-14 8-20-11 AM.dat
Aquired: 9/4/2014 8:25:25 AM



FID Results

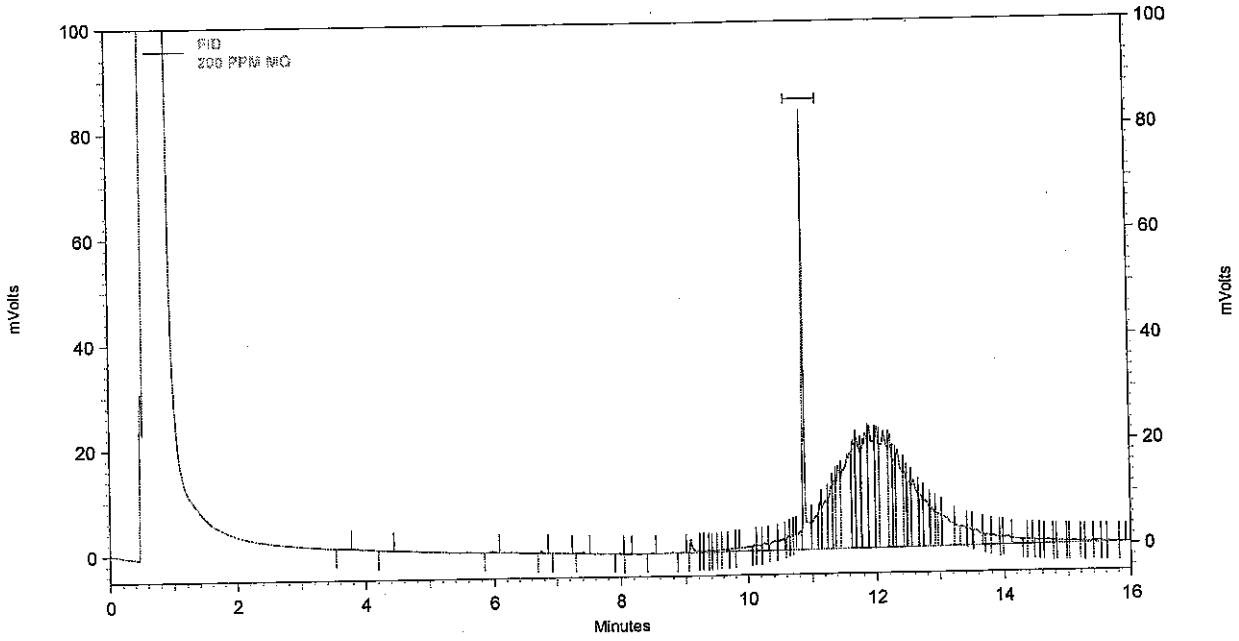
Name	Retention Time	Area	ug/ml
DNOP	10.869	106581	9.461
DRO		1700089	102.989
MRO		8674	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\200 PPM MO 09-04-14 8-41-32 AM.dat
Aquired: 9/4/2014 8:46:36 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	148920	13.177
DRO		68034	6.125
MRO		1618386	202.694

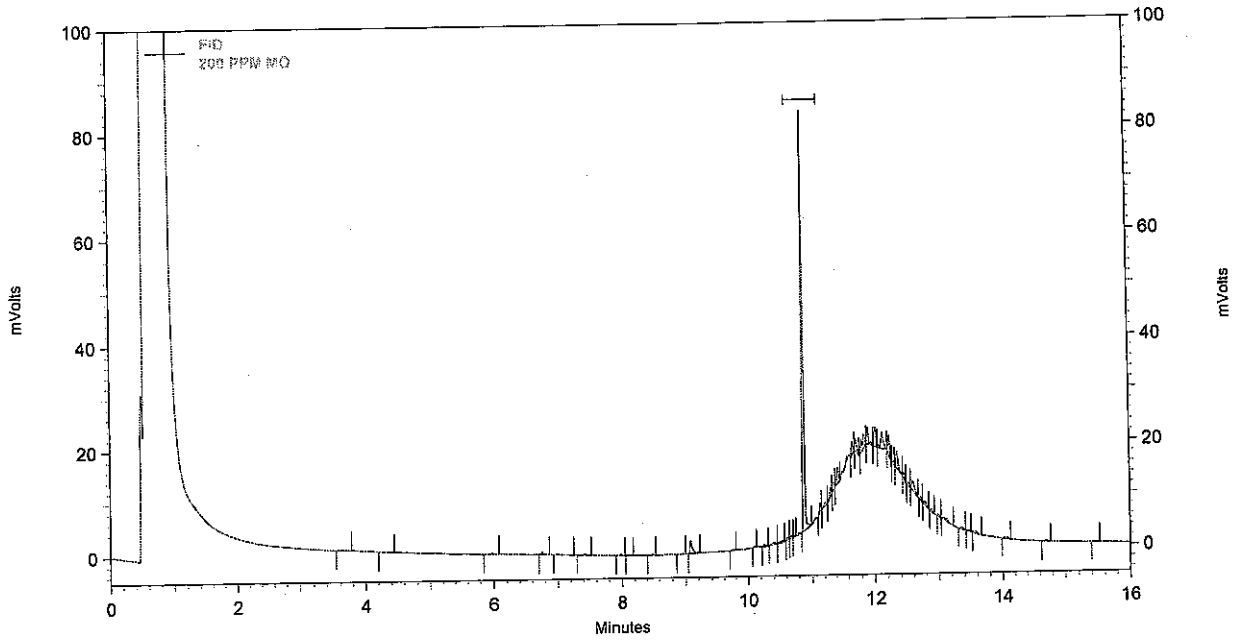
Analyst BN

Reviewed By

13.177
- 9.904
3.273
+ 202.694
205.967
200
X100 = 102.98

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\200 PPM MO 09-04-14 8-41-32 AM.dat
Aquired: 9/4/2014 8:46:36 AM



FID Results

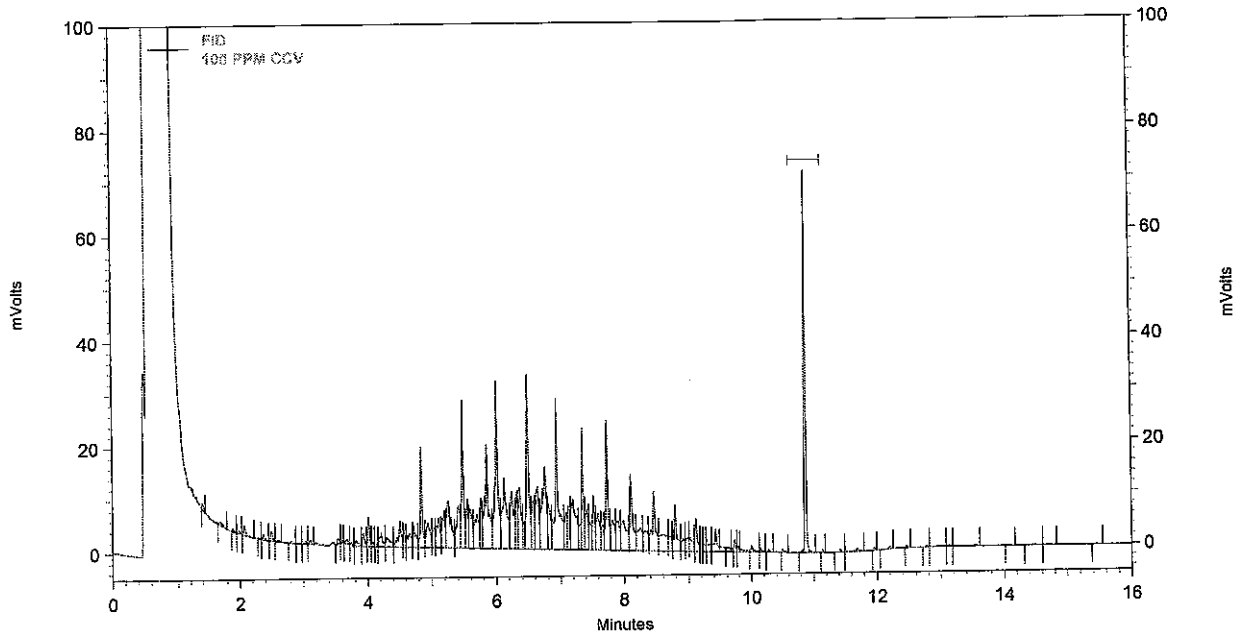
Name	Retention Time	Area	ug/ml
DNOP	10.875	111617	9.904
DRO		16687	3.066
MRO		93455	0.277

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090414\100 PPM CCV 09-04-14 11-50-36 AM.dat
Aquired: 9/4/2014 11:55:46 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	107357	9.530
DRO		1699928	102.979
MRO		12461	0.000

Analyst _____

Reviewed By _____

8015D DRO
Calibration Summary

Instrument: DANTE

Date: 08/27/14 + 08/28/14

Method: 8015 D

Calibration Name: 082814DRO MRO.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

DRO 8-pt. curve ran 08/27/14

MRO 3-pt. curve ran 08/28/14

Analyst: Janice Easley & Ben Cain

QA: John Aldrich

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

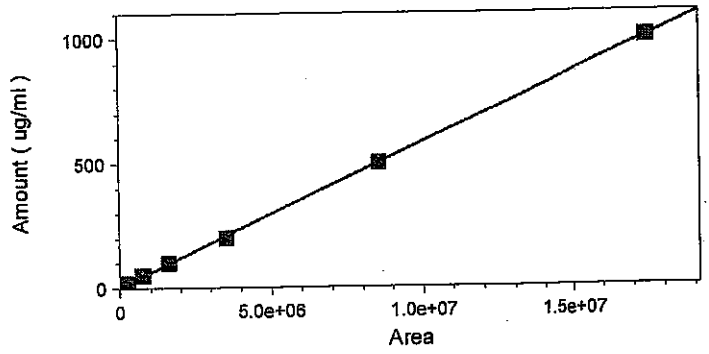
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.81114e-005 RF StDev: 1.13089e-005 RF %RSD: 16.6036
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.33282e-013x^2 + 5.95864e-005x + 2.07170
Goodness of fit (r^2): 0.999851

JR 8/28/14

Group: DRO -- ESTD -- FID-AL1



JV 8.28.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49506	116786	262275	750680	1598005
RF	8.079828707 6314e-005	8.56267018306 989e-005	7.625583833762 27e-005	6.660627697554 22e-005	6.2578026977 3874e-005
Last Area Residual	-1.02126	0.971261	2.30944	3.27309	3.04928
Rep StDev					
Rep %RSD					
Rep 1 Area	49506	116786	262275	750680	1598005
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

Amount	200	300	500	1000
Area	3514780		8527481	17394529
RF	5.690256573 66891e-005		5.863396236239 05e-005	5.748934047021 34e-005
Last Area				
Residual	-9.85828	N/A	-0.501613	1.77808
Rep StDev				
Rep %RSD				
Rep 1 Area	3514780		8527481	17394529
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

Calibration Report

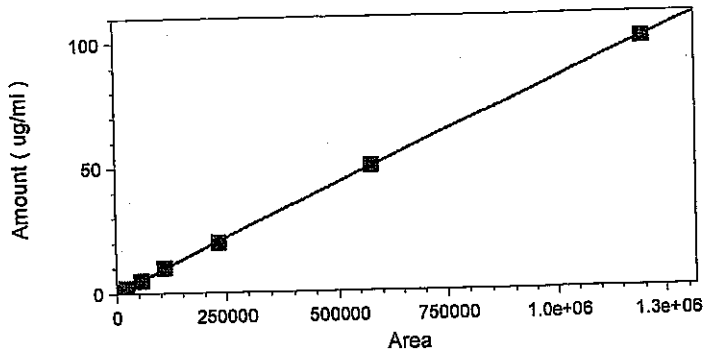
Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 8.78371e-005 RF StDev: 6.58129e-006 RF %RSD: 7.49260
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.39616e-012x^2 + 8.88806e-005x + 0.0382291
Goodness of fit (r^2): 0.999943

JE 8128114

JV 9.2814

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5280	10206	22113	55344	108620
RF	7.575757575 75758e-005	9.79815794630 609e-005	9.044453488897 93e-005	9.034403006649 32e-005	9.2064076597 3117e-005
Last Area Residual	-0.107396	0.0551132	-0.00149656	0.0562272	0.359425
Rep StDev					
Rep %RSD					
Rep 1 Area	5280	10206	22113	55344	108620
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

Amount	20	30	50	100
Area	233394		576145	1195754
RF	8.569200579 27796e-005		8.678370896215 36e-005	8.362924146605 41e-005
Last Area				
Residual	-0.542961	N/A	0.212922	-0.0318333
Rep StDev				
Rep %RSD				
Rep 1 Area	233394		576145	1195754
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

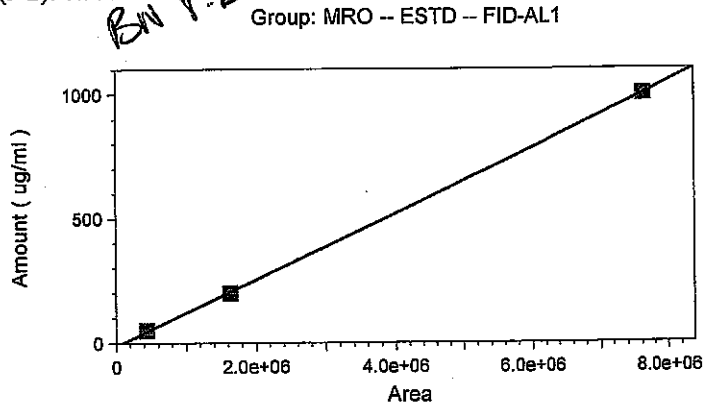
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000122404 RF StDev: 8.98680e-006 RF %RSD: 7.34194
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000132739x - 12.1282
Goodness of fit (r^2): 0.999941

BW 9.28.14

TX 8.28.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	441412	1630009	7619675
RF	0.000113272	0.00012269870	0.000131239193
	860728752	9025533	272679
Last Area			
Residual	3.53566	-4.23728	0.701621
Rep StDev			
Rep %RSD			
Rep 1 Area	441412	1630009	7619675
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\50ppm MO 08-28-14 9-24-07 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\200ppm MO 08-28-14 9-44-33 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO 08-28-14 10-06-17 AM.dat
Rep 1 Sample ID	50ppm MO	200ppm MO	1,000ppm MO

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

Rep 1 Calib. Time	8/28/2014 10:35:56 AM	8/28/2014 10:36:11 AM	8/28/2014 10:36:27 AM

Sequence Print

JL 8/29/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

JL 8.28.14

Sequence Print

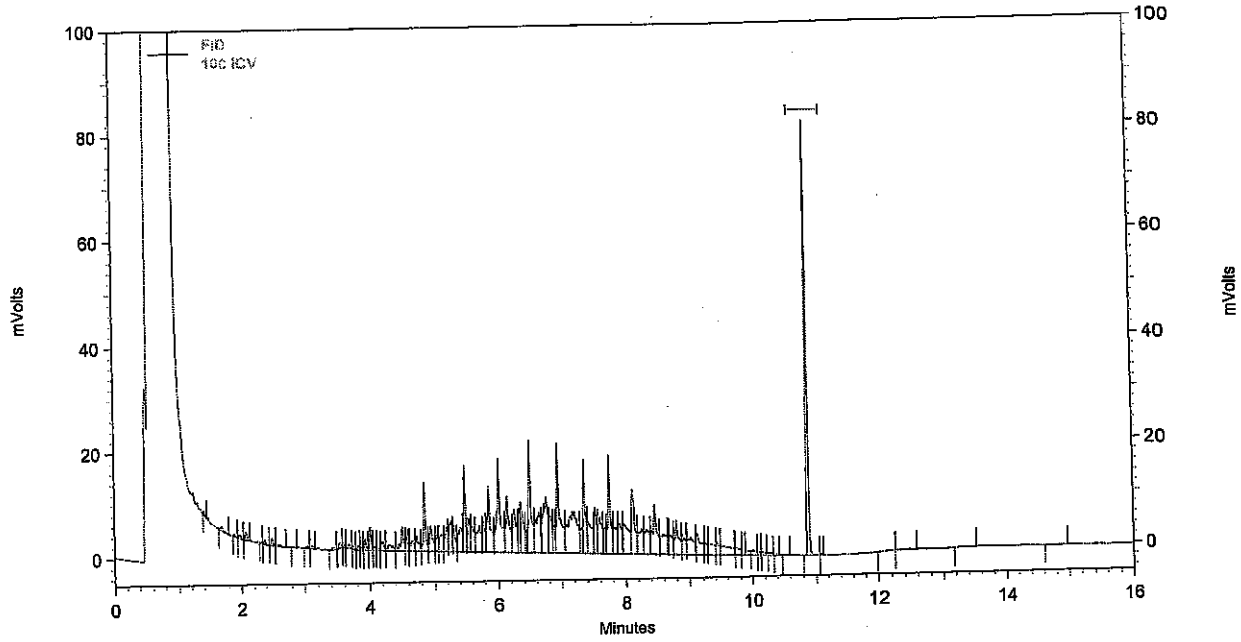
BN 8.28.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	50ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50ppm MO <D>.dat	1
4	Unknown	0	1	200ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO <D>.dat	1
5	Unknown	0	1	1,000ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO <D>.dat	1
6	Unknown	0	1	200ppm MO ICV	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO ICV <D>.dat	1

8.28.14

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1557**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV 08-27-14 6-58-21 PM.dat
Aquired: 8/27/2014 7:03:37 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	116788	10.358
DRO		1468072	89.262

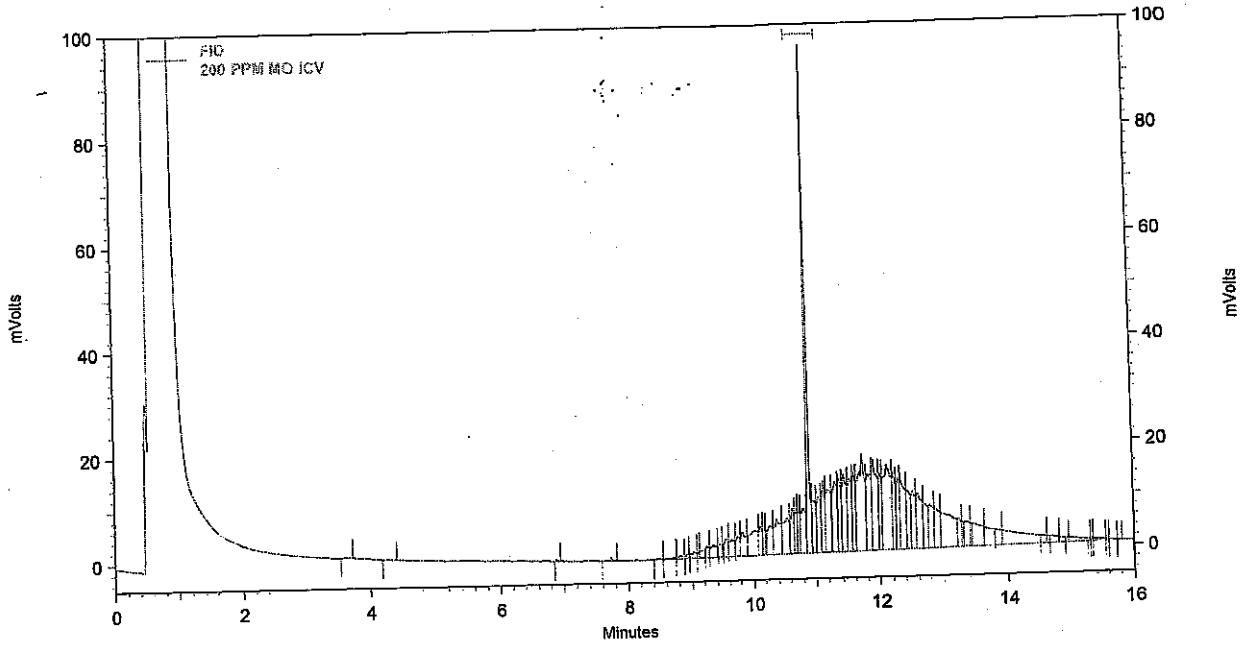
Analyst _____

Reviewed By _____

± 20%

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1569**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	163365	14.441
DRO		339420	22.281
MRO		1566946	195.866

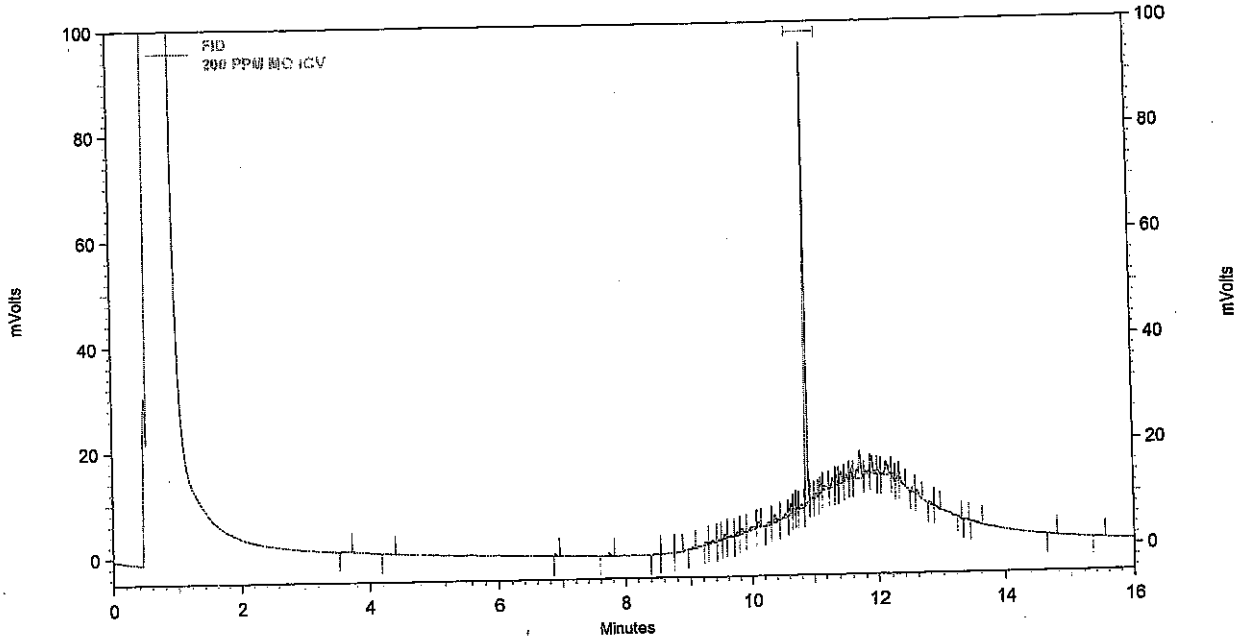
Analyst BW

Reviewed By JO

14.441
- 10.528
3.913
+195.866
199.779
200 x100
= 99.889% ✓

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1569**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	118723	10.528
DRO		32486	4.007
MRO		82554	0.000

Analyst _____

Reviewed By _____

9/8/14

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-001
Collection Date: 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0054
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg-dry	1	R21061	9/5/2014 5:28:39 PM
Surr: BFB	107	61.2-137		%REC	1	R21061	9/5/2014 5:28:39 PM

Lab ID: 1409046-002
Collection Date: 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0055
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg-dry	1	R21010	9/4/2014 1:32:39 PM
Surr: BFB	107	61.2-137		%REC	1	R21010	9/4/2014 1:32:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-003
Client Sample ID: FFOR-CF-0056
Collection Date: 9/2/2014 11:03:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Toluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Ethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2,4-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,3,5-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2-Dichloroethane (EDC)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2-Dibromoethane (EDB)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Naphthalene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Acetone	ND	0.54		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Bromobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Bromodichloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Bromoform	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Bromomethane	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
2-Butanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Carbon disulfide	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Carbon tetrachloride	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Chlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Chloroethane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Chloroform	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Chloromethane	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
2-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
4-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
cis-1,2-DCE	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
cis-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2-Dibromo-3-chloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Dibromochloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Dibromomethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,3-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,4-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Dichlorodifluoromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1-Dichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1-Dichloroethene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2-Dichloropropane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,3-Dichloropropane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
2,2-Dichloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1-Dichloropropene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Hexachlorobutadiene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Isopropylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
4-Isopropyltoluene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
4-Methyl-2-pentanone	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Methylene chloride	0.011	0.11	J	mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
n-Butylbenzene	ND	0.11		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
n-Propylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
sec-Butylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Styrene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
tert-Butylbenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1,1,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1,2,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Tetrachloroethene (PCE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
trans-1,2-DCE	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
trans-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2,3-Trichlorobenzene	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2,4-Trichlorobenzene	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1,1-Trichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,1,2-Trichloroethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Trichloroethene (TCE)	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Trichlorofluoromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
1,2,3-Trichloropropane	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Vinyl chloride	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Xylenes, Total	ND	0.072		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Bromochloromethane	ND	0.036		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Vinyl acetate	ND	0.36		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Surr: Dibromofluoromethane	89.5	70-130		%REC	1	R20965	9/3/2014 3:29:21 PM
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%REC	1	R20965	9/3/2014 3:29:21 PM
Surr: Toluene-d8	95.7	70-130		%REC	1	R20965	9/3/2014 3:29:21 PM
Surr: 4-Bromofluorobenzene	90.9	70-130		%REC	1	R20965	9/3/2014 3:29:21 PM

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	4.5	3.6		mg/Kg-dry	1	R20965	9/3/2014 3:29:21 PM
Surr: BFB	106	61.2-137		%REC	1	R20965	9/3/2014 3:29:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-004 **Collection Date:** 9/2/2014 3:04:00 PM
Client Sample ID: FFOR-CF-0057 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	0.71	3.6	J	mg/Kg-dry	1	R21010	9/4/2014 2:00:53 PM
Surr: BFB	105	61.2-137		%REC	1	R21010	9/4/2014 2:00:53 PM

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	4.4	3.3		mg/Kg-dry	1	R21010	9/4/2014 2:29:03 PM
Surr: BFB	111	61.2-137		%REC	1	R21010	9/4/2014 2:29:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-006
Client Sample ID: FFOR-CF-0059
Collection Date: 9/2/2014 3:15:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Toluene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Ethylbenzene	0.23	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Methyl tert-butyl ether (MTBE)	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2,4-Trimethylbenzene	12	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,3,5-Trimethylbenzene	3.7	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2-Dichloroethane (EDC)	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2-Dibromoethane (EDB)	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Naphthalene	12	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Acetone	0.40	3.2	J	mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Bromobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Bromodichloromethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Bromoform	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Bromomethane	ND	0.64		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
2-Butanone	0.58	2.1	J	mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Carbon disulfide	ND	2.1		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Carbon tetrachloride	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Chlorobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Chloroethane	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Chloroform	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Chloromethane	ND	0.64		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
2-Chlorotoluene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
4-Chlorotoluene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
cis-1,2-DCE	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
cis-1,3-Dichloropropene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2-Dibromo-3-chloropropane	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Dibromochloromethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Dibromomethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Dichlorodifluoromethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1-Dichloroethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1-Dichloroethene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2-Dichloropropane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,3-Dichloropropane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
2,2-Dichloropropane	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1-Dichloropropene	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES — Analyst: **RAA**

2-Hexanone	ND	2.1		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Isopropylbenzene	0.29	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
4-Isopropyltoluene	2.3	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
4-Methyl-2-pentanone	ND	2.1		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Methylene chloride	0.24	0.64	J	mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
n-Butylbenzene	7.7	0.64		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
n-Propylbenzene	0.94	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
sec-Butylbenzene	2.2	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Styrene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
tert-Butylbenzene	0.067	0.21	J	mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1,1,2-Tetrachloroethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1,2,2-Tetrachloroethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Tetrachloroethene (PCE)	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
trans-1,2-DCE	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
trans-1,3-Dichloropropene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2,3-Trichlorobenzene	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1,1-Trichloroethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,1,2-Trichloroethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Trichloroethene (TCE)	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Trichlorofluoromethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
1,2,3-Trichloropropane	ND	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Vinyl chloride	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Xylenes, Total	0.58	0.43		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Bromochloromethane	ND	0.21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Vinyl acetate	ND	2.1		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Surr: Dibromofluoromethane	93.9	70-130		%REC	5	R20965	9/3/2014 4:25:44 PM
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%REC	5	R20965	9/3/2014 4:25:44 PM
Surr: Toluene-d8	90.9	70-130		%REC	5	R20965	9/3/2014 4:25:44 PM
Surr: 4-Bromofluorobenzene	215	70-130	S	%REC	5	R20965	9/3/2014 4:25:44 PM

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE — Analyst: **RAA**

Gasoline Range Organics (GRO)	750	21		mg/Kg-dry	5	R20965	9/3/2014 4:25:44 PM
Surr: BFB	196	61.2-137	S	%REC	5	R20965	9/3/2014 4:25:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-007
Client Sample ID: FFOR-CF-0060
Collection Date: 9/2/2014 3:58:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Toluene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Ethylbenzene	0.27	0.42	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Methyl tert-butyl ether (MTBE)	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2,4-Trimethylbenzene	2.5	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,3,5-Trimethylbenzene	2.6	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2-Dichloroethane (EDC)	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2-Dibromoethane (EDB)	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Naphthalene	5.5	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Acetone	4.4	6.2	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Bromobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Bromodichloromethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Bromoform	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Bromomethane	ND	1.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
2-Butanone	2.4	4.2	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Carbon disulfide	ND	4.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Carbon tetrachloride	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Chlorobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Chloroethane	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Chloroform	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Chloromethane	ND	1.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
2-Chlorotoluene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
4-Chlorotoluene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
cis-1,2-DCE	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
cis-1,3-Dichloropropene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2-Dibromo-3-chloropropane	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Dibromochloromethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Dibromomethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Dichlorodifluoromethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1-Dichloroethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1-Dichloroethene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2-Dichloropropane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,3-Dichloropropane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
2,2-Dichloropropane	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1-Dichloropropene	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Hexachlorobutadiene	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	4.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Isopropylbenzene	0.27	0.42	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
4-Isopropyltoluene	1.8	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
4-Methyl-2-pentanone	ND	4.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Methylene chloride	0.48	1.2	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
n-Butylbenzene	3.6	1.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
n-Propylbenzene	0.66	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
sec-Butylbenzene	1.2	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Styrene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
tert-Butylbenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1,1,2-Tetrachloroethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1,2,2-Tetrachloroethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Tetrachloroethene (PCE)	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
trans-1,2-DCE	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
trans-1,3-Dichloropropene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2,3-Trichlorobenzene	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2,4-Trichlorobenzene	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1,1-Trichloroethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,1,2-Trichloroethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Trichloroethene (TCE)	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Trichlorofluoromethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
1,2,3-Trichloropropane	ND	0.83		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Vinyl chloride	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Xylenes, Total	0.77	0.83	J	mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Bromochloromethane	ND	0.42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Vinyl acetate	ND	4.2		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Surr: Dibromofluoromethane	99.5	70-130		%REC	10	R20965	9/3/2014 5:22:11 PM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	10	R20965	9/3/2014 5:22:11 PM
Surr: Toluene-d8	94.8	70-130		%REC	10	R20965	9/3/2014 5:22:11 PM
Surr: 4-Bromofluorobenzene	125	70-130		%REC	10	R20965	9/3/2014 5:22:11 PM

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	690	42		mg/Kg-dry	10	R20965	9/3/2014 5:22:11 PM
Surr: BFB	142	61.2-137	S	%REC	10	R20965	9/3/2014 5:22:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

√ 9-9-14

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409046

Lab ID: 1409046-001
Client Sample ID: FFOR-CF-0054

Collection Date: 9/2/2014 8:39:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Toluene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Ethylbenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Xylenes, Total	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Methyl tert-butyl ether (MTBE)	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2,4-Trimethylbenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,3,5-Trimethylbenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2-Dichloroethane (EDC)	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2-Dibromoethane (EDB)	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Naphthalene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Acetone	0.00979	0.00721		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Bromobenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Bromodichloromethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Bromoform	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Bromomethane	0.00110	0.00361	J	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
2-Butanone	ND	0.00721		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Carbon tetrachloride	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Chlorobenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Chloroethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Chloroform	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Chloromethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
2-Chlorotoluene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Carbon disulfide	ND	0.00721		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
4-Chlorotoluene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
cis-1,2-DCE	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
cis-1,3-Dichloropropene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2-Dibromo-3-chloropropane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Dibromochloromethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Dibromomethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,3-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,4-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Dichlorodifluoromethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1-Dichloroethane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1-Dichloroethene	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2-Dichloropropane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,3-Dichloropropane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
2,2-Dichloropropane	ND	0.00144		mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Hexachlorobutadiene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Isopropylbenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
4-Isopropyltoluene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Methylene chloride	ND	0.00361	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
n-Butylbenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
2-Hexanone	ND	0.00721	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
n-Propylbenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
sec-Butylbenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Styrene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
4-Methyl-2-pentanone	ND	0.00721	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
tert-Butylbenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1,1,2-Tetrachloroethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1,2,2-Tetrachloroethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Tetrachloroethene (PCE)	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
trans-1,2-DCE	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
trans-1,3-Dichloropropene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2,3-Trichlorobenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2,4-Trichlorobenzene	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1,1-Trichloroethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,1,2-Trichloroethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Trichloroethene (TCE)	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Trichlorofluoromethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
1,2,3-Trichloropropane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Vinyl chloride	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Vinyl acetate	ND	0.00721	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Bromochloromethane	ND	0.00144	mg/Kg-dry	1	15112	9/4/2014 12:40:52 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	15112	9/4/2014 12:40:52 PM
Surr: 4-Bromofluorobenzene	95.4	65.3-135	%REC	1	15112	9/4/2014 12:40:52 PM
Surr: Dibromofluoromethane	102	70-130	%REC	1	15112	9/4/2014 12:40:52 PM
Surr: Toluene-d8	98.2	70-130	%REC	1	15112	9/4/2014 12:40:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409046

Lab ID: 1409046-002
Client Sample ID: FFOR-CF-0055

Collection Date: 9/2/2014 8:39:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Toluene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Ethylbenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Xylenes, Total	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Methyl tert-butyl ether (MTBE)	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2,4-Trimethylbenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,3,5-Trimethylbenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2-Dichloroethane (EDC)	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2-Dibromoethane (EDB)	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Naphthalene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Acetone	0.0112	0.00749		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Bromobenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Bromodichloromethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Bromoform	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Bromomethane	0.00113	0.00375	J	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
2-Butanone	ND	0.00749		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Carbon tetrachloride	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Chlorobenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Chloroethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Chloroform	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Chloromethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
2-Chlorotoluene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Carbon disulfide	ND	0.00749		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
4-Chlorotoluene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
cis-1,2-DCE	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
cis-1,3-Dichloropropene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2-Dibromo-3-chloropropane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Dibromochloromethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Dibromomethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,3-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,4-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Dichlorodifluoromethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1-Dichloroethane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1-Dichloroethene	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2-Dichloropropane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,3-Dichloropropane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
2,2-Dichloropropane	ND	0.00150		mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Hexachlorobutadiene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Isopropylbenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
4-Isopropyltoluene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Methylene chloride	ND	0.00375	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
n-Butylbenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
2-Hexanone	ND	0.00749	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
n-Propylbenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
sec-Butylbenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Styrene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
4-Methyl-2-pentanone	ND	0.00749	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
tert-Butylbenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1,1,2-Tetrachloroethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1,2,2-Tetrachloroethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Tetrachloroethene (PCE)	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
trans-1,2-DCE	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
trans-1,3-Dichloropropene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2,3-Trichlorobenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2,4-Trichlorobenzene	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1,1-Trichloroethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,1,2-Trichloroethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Trichloroethene (TCE)	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Trichlorofluoromethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
1,2,3-Trichloropropane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Vinyl chloride	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Vinyl acetate	ND	0.00749	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Bromochloromethane	ND	0.00150	mg/Kg-dry	1	15112	9/4/2014 2:07:10 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	15112	9/4/2014 2:07:10 PM
Surr: 4-Bromofluorobenzene	94.3	65.3-135	%REC	1	15112	9/4/2014 2:07:10 PM
Surr: Dibromofluoromethane	94.3	70-130	%REC	1	15112	9/4/2014 2:07:10 PM
Surr: Toluene-d8	98.7	70-130	%REC	1	15112	9/4/2014 2:07:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409046**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409046

Lab ID: 1409046-004
Client Sample ID: FFOR-CF-0057

Collection Date: 9/2/2014 3:04:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.00172	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Toluene	0.00273	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Ethylbenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Xylenes, Total	0.00221	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2,4-Trimethylbenzene	0.00105	0.00145	J	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,3,5-Trimethylbenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2-Dichloroethane (EDC)	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2-Dibromoethane (EDB)	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Naphthalene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Acetone	0.266	0.00725	E	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Bromobenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Bromodichloromethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Bromoform	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Bromomethane	ND	0.00363		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
2-Butanone	0.0587	0.00725		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Carbon tetrachloride	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Chlorobenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Chloroethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Chloroform	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Chloromethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
2-Chlorotoluene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Carbon disulfide	ND	0.00725		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
4-Chlorotoluene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
cis-1,2-DCE	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
cis-1,3-Dichloropropene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2-Dibromo-3-chloropropane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Dibromochloromethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Dibromomethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2-Dichlorobenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,3-Dichlorobenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,4-Dichlorobenzene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Dichlorodifluoromethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1-Dichloroethane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1-Dichloroethene	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2-Dichloropropane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,3-Dichloropropane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
2,2-Dichloropropane	ND	0.00145		mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Hexachlorobutadiene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Isopropylbenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
4-Isopropyltoluene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Methylene chloride	ND	0.00363	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
n-Butylbenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
2-Hexanone	ND	0.00725	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
n-Propylbenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
sec-Butylbenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Styrene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
4-Methyl-2-pentanone	ND	0.00725	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
tert-Butylbenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1,1,2-Tetrachloroethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1,2,2-Tetrachloroethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Tetrachloroethene (PCE)	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
trans-1,2-DCE	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
trans-1,3-Dichloropropene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2,3-Trichlorobenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2,4-Trichlorobenzene	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1,1-Trichloroethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,1,2-Trichloroethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Trichloroethene (TCE)	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Trichlorofluoromethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
1,2,3-Trichloropropane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Vinyl chloride	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Vinyl acetate	ND	0.00725	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Bromochloromethane	ND	0.00145	mg/Kg-dry	1	15112	9/4/2014 2:35:53 PM
Surr: 1,2-Dichloroethane-d4	116	70-130	%REC	1	15112	9/4/2014 2:35:53 PM
Surr: 4-Bromofluorobenzene	95.4	65.3-135	%REC	1	15112	9/4/2014 2:35:53 PM
Surr: Dibromofluoromethane	97.8	70-130	%REC	1	15112	9/4/2014 2:35:53 PM
Surr: Toluene-d8	102	70-130	%REC	1	15112	9/4/2014 2:35:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Toluene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Ethylbenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Xylenes, Total	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Methyl tert-butyl ether (MTBE)	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2,4-Trimethylbenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,3,5-Trimethylbenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2-Dichloroethane (EDC)	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2-Dibromoethane (EDB)	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Naphthalene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Acetone	0.124	0.00687		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Bromobenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Bromodichloromethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Bromoform	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Bromomethane	0.000975	0.00344	J	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
2-Butanone	0.0290	0.00687		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Carbon tetrachloride	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Chlorobenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Chloroethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Chloroform	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Chloromethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
2-Chlorotoluene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Carbon disulfide	ND	0.00687		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
4-Chlorotoluene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
cis-1,2-DCE	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
cis-1,3-Dichloropropene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2-Dibromo-3-chloropropane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Dibromochloromethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Dibromomethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,3-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,4-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Dichlorodifluoromethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1-Dichloroethane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1-Dichloroethene	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2-Dichloropropane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,3-Dichloropropane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
2,2-Dichloropropane	ND	0.00137		mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Hexachlorobutadiene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Isopropylbenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
4-Isopropyltoluene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Methylene chloride	ND	0.00344	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
n-Butylbenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
2-Hexanone	ND	0.00687	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
n-Propylbenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
sec-Butylbenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Styrene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
4-Methyl-2-pentanone	ND	0.00687	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
tert-Butylbenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1,1,2-Tetrachloroethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1,2,2-Tetrachloroethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Tetrachloroethene (PCE)	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
trans-1,2-DCE	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
trans-1,3-Dichloropropene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2,3-Trichlorobenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2,4-Trichlorobenzene	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1,1-Trichloroethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,1,2-Trichloroethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Trichloroethene (TCE)	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Trichlorofluoromethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
1,2,3-Trichloropropane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Vinyl chloride	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Vinyl acetate	ND	0.00687	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Bromochloromethane	ND	0.00137	mg/Kg-dry	1	15112	9/4/2014 3:33:23 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	1	15112	9/4/2014 3:33:23 PM
Surr: 4-Bromofluorobenzene	89.3	65.3-135	%REC	1	15112	9/4/2014 3:33:23 PM
Surr: Dibromofluoromethane	96.5	70-130	%REC	1	15112	9/4/2014 3:33:23 PM
Surr: Toluene-d8	101	70-130	%REC	1	15112	9/4/2014 3:33:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

****

rian Star Workstation - Generic SampleList Fri Sep 05 13:34:18 2014

2.5ug = 25

mpleList: C:\VarianWS\090514v.smp

eated: Fri Sep 05 08:38:46 2014
dified: Fri Sep 05 13:33:06 2014

Gro- PAL 06498

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0526	
2	b1	none ← Tune 9:30
3	2.25ug gro ccv	below @ 9:58
	Notes v-18-2074	
4	2.5ug gro lcs	below
	Notes v-18-2067	
5	75ng ccv	below @ 10:54
	Notes v-54-0475	
6	100ng lcs	below
	Notes v-11-8070	
7	vcb1	none
8	1409219-010a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
9	1409219-007a	below
	Notes x1-100uL MeOH GRO 8260	
10	1409219-009a	below
	Notes x1-100uL MeOH GRO 8260 r10 for TS3	
11	b2	none
12	1409219-001a	below
	Notes x1-100uL MeOH GRO r1 c-o✓	
13	1409219-002a	below
	Notes x1-100uL MeOH GRO r1 c-o✓	
14	1409219-003a	below
	Notes x1-100uL MeOH GRO	
15	1409219-004a	below
	Notes x1-100uL MeOH GRO	
16	1409219-005a	below
	Notes x1-100uL MeOH GRO	
17	1409219-006a	below
	Notes x1-100uL MeOH GRO	
18	1409219-008a	below
	Notes x1-100uL MeOH GRO	
19	1409046-001a	below
	Notes x1-100uL MeOH GRO	
20	1409219-008a ms	below
	Notes V-18-2067 MeOH GRO client requested m/s/d for -008 same vial as Matrix used for spiking	
21 @ 6:24	1409219-008a msd	below
	Notes V-18-2067 MeOH GRO	
22	1408f17-003a	below
	Notes r50-2uL PB15046 V_O	
23	b3	none ← Tune 7:20
24	1409062-001a	below
	Notes r5-20uL MeOH QCw/PB15063	
25	1409069-001a	below
	Notes x10-10uL MeOH QCw/PB15122 r1	
26	1409069-002a	below
	Notes x10-10uL MeOH QCw/PB15122	
27	1409069-003a	below
	Notes x1-100uL MeOH Blk QCw/PB15122	
28	lcs-15122	below
	Notes V-11-8070 MeOH, SoilTCLP	
29	mb-15122	below
	Notes 4681 MeOH, SoilTCLP	
30 @ 10:36	1409170-001a	below
	Notes x10-10uL PB15122 SoilTCLP r5	
31	tt	none
32	b4	none
33	50ng ccv	below @ 11:59
	Notes V-54-0475	
34	vcb2	none
35	1409174-001a	below ← Tune 12:27
	Notes x10-10uL PB15122 SoilTCLP	
36	1409170-001ams	below
	Notes x10 V-11-8070 PB15122 SoilTCLP r5	
37	1409170-001amsd	below

Loaded By: DF 9/5/2014 / 9514 MK
1st Review By: DF 9/8/2014 / MK 9-8-14
QA'd By: ✓ NO 9/8/14

```
                Notes  x10 : 1L [illegible]
38          1409176-001a      below
               Notes  x10-10uL PB15122 SoilTCLP
39          1408e83-001a      below
               Notes  x2 2.5mL (dds)
40        1408e83-001ams      below
               Notes  x2 v-11-8070 (dds)
41       1408e83-001amsd      below
               Notes  x2 v-11-8070 (dds)
42          1408e83-002a      below
               Notes  x2 2.5mL (dds)
43          1408e83-003a      below
               Notes  x2 2.5mL (dds)
44          1408e83-004a      below
               Notes  x1 5mL
45          1408e83-005a      below
               Notes  x2 2.5mL (dds)
46          1408e83-006a      below
               Notes  x1 5mL
47          1408e83-007a      below
               Notes  x2 2.5mL (dds)
48          1408e83-008a      below
               Notes  x2 2.5mL (dds)
49          1408e83-009a      below
               Notes  x2 2.5mL (dds)
50          1408e83-010a      below
               Notes  x1 5mL TB
51          1408f03-001a      below
               Notes  x1 5mL
52          1408f03-002a      below
               Notes  x10 0.5mL
53          1408f03-003a      below
               Notes  x1000 0.005mL
54          1408f03-004a      below
               Notes  x1 5mL
55          1408f03-005a      below
               Notes  x50 0.1mL
56          1408f03-005a      below
               Notes  r5 1mL
57                    b5       none
58 @ 11:38  1408f03-006a      below
               Notes  x1 5mL TB
59                    tt       none
60

Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\090514v.rcl.
```

HAND CALC: Waters

r20 : B

Loaded By: DF 9/5/2014 | 9.9.14
1st Review By: DF 9/8/2014 | 9.9.14
QA'd By: ✓ DB 9/8/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090514v\75ng ccv 9-5-2014.SMS Lab Sample ID: 75ng ccv

Instrument ID: VAL Date Analyzed: 9/5/2014 Time Analyzed: 10:54

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	24044	8.00	34906	14.31	19779	17.91						
UPPER LIMIT	48088	8.50	69812	14.81	39558	18.41						
LOWER LIMIT	12022	7.50	17453	13.81	9890	17.41						
EPA SAMPLE NO												
rtm 9-5-20	26403	7.99	37084	14.30	21371	17.91						
b1 9-5-201	25047	7.99	36181	14.30	20478	17.91						
2.25ug gro	24564	7.99	35114	14.30	19682	17.91						
2.5ug gro	23882	7.99	34879	14.30	19205	17.91						
100ng lcs	24179	8.00	35786	14.30	19345	17.91						
vcb1 9-5-2	22933	7.99	34231	14.30	18861	17.91						
1409219-010a	25227	7.99	34365	14.30	18585	17.91						
1409219-007a	26773	7.99	34423	14.30	20965	17.91						
1409219-009a	27518	7.99	39335	14.31	49539*	17.91						
b2 9-5-201	29581	8.00	37364	14.31	20270	17.91						
1409219-00	28881	8.00	37687	14.30	20581	17.91						
1409219-00	27786	7.99	37569	14.30	22515	17.91						
1409219-00	25907	8.00	34576	14.31	21969	17.91						
1409219-00	25933	8.00	34658	14.31	23289	17.91						
1409219-00	26793	8.00	35614	14.31	22160	17.91						
1409219-00	27485	8.00	37911	14.31	23399	17.91						

-NR IS3 r10 IS3

JM 9-8-14

NB 9/8/14

9/8/2014 8:38

Analyst: djf

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1409219-00	26074	7.99	34441	14.31	21717	17.91						
1409046-00	26002	8.00	33858	14.31	22861	17.91						
1409219-00	27831	7.99	36974	14.31	24793	17.91						
1409219-00	27476	8.00	38637	14.31	24463	17.92						
1408f17-00	28746	8.00	38464	14.31	20816	17.91						
b3 9-5-201	25204	8.00	35815	14.31	19003	17.91						
1409062-00	26922	8.00	37547	14.31	21209	17.91						
1409069-00	25989	7.99	36982	14.30	19967	17.91						
1409069-00	24695	7.99	34585	14.31	19552	17.91						
1409069-00	27716	7.99	35458	14.31	22619	17.91						
lcs-15122	24987	7.99	33589	14.31	22002	17.91						
mb-15122 9	27813	7.98	35441	14.30	23500	17.90						
1409170-00	28037	7.99	36594	14.30	20483	17.90						
tt 9-5-201	23648	7.99	33868	14.30	19207	17.90						
b4 9-5-201	22538	7.99	34089	14.29	19104	17.90						
50ng ccv 9	23286	7.99	34722	14.30	19407	17.90						
vcb2 9-6-2	23231	7.99	34505	14.30	18146	17.90						
1409174-00	23440	7.99	33985	14.30	18712	17.90						
1409170-00	24031	7.99	35466	14.30	19526	17.91						
1409170-00	23746	7.98	35288	14.30	19258	17.90						
1409176-00	24026	7.98	34404	14.30	19325	17.90						
1408e83-00	22494	7.99	34580	14.30	18824	17.90						
1408e83-00	21916	7.99	33442	14.30	19023	17.90						
1408e83-00	21732	7.98	32924	14.30	17890	17.90						
1408e83-00	22222	7.98	32440	14.30	18262	17.90						
1408e83-00	21722	7.99	33442	14.30	18295	17.90						
1408e83-00	22138	7.99	32992	14.30	17984	17.90						
1408e83-00	21041	7.99	31108	14.30	17625	17.90						
1408e83-00	21684	7.99	33515	14.30	18348	17.90						
1408e83-00	22397	7.98	32439	14.30	18287	17.90						
1408e83-00	23219	7.98	34346	14.29	18992	17.90						
1408e83-00	21863	7.98	33262	14.29	18413	17.90						
1408e83-01	21761	7.98	32479	14.29	18381	17.90						
1408f03-00	22556	7.98	32827	14.30	18577	17.90						

DF 9/8/2014

JBG 9/8/14

9/8/2014 8:38

Analyst: djf

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408f03-00	21389	7.98	32035	14.30	17898	17.90						
1408f03-00	21660	7.98	32998	14.30	18692	17.90						
1408f03-00	20787	7.98	31228	14.29	17917	17.90						
1408f03-00	20657	7.98	30721	14.29	17706	17.90						
1408f03-00	22006	7.98	33584	14.29	17767	17.89						
b5 9-6-201	22279	7.98	32170	14.29	18603	17.90						
1408f03-00	21143	7.99	31585	14.30	17902	17.90						
tt 9-6-201	21123	7.98	32062	14.29	17742	17.90						

DF 9/8/2014

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

WB 9/8/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Internal Standard And RT Summary

9/8/2014 8:38
Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/5/2014 Time: 9:58

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090514v\gro\2.25ug gro ccv 9-5-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2784.274	0.100	2.25	2.30	-2.1	20.0	PASS	PASS
BFB	1.004	0.100	50.00	48.23	3.5	30.0	PASS	PASS

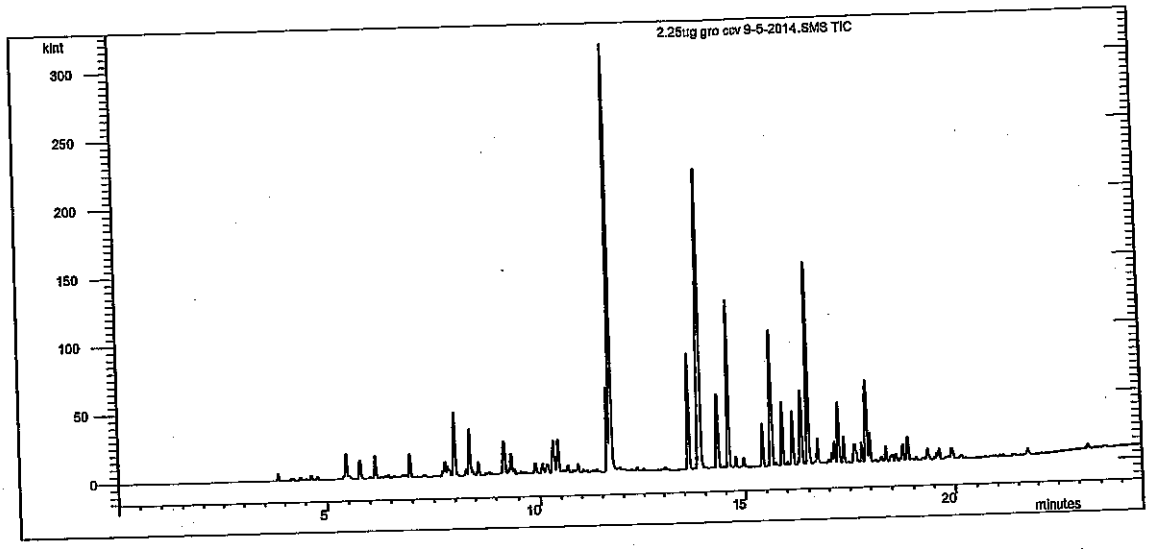
9-8-14

✓ DB 9/8/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/5/2014 9:58:25 AM
Calculation Date:	9/5/2014 10:27:45 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.302	1194	Identified	34683	50.000
GRO	11.000	903	Identified	4.346E6	2.297
BFB	16.333	1374	Identified	34821	48.228

****
Revision Log
****

9/5/2014 10:22 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
9/5/2014 10:27 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/5/2014 Time: 10:54

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 9-5-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.441	0.100	75.00	79.32	-5.8	30.0	PASS	PASS
Chloromethane	0.319	0.100	75.00	52.16	30.5	30.0	FAIL	PASS → NR
Vinyl chloride	1.210	0.100	75.00	67.64	9.8	20.0	PASS	PASS
Chloroethane	0.204	0.100	75.00	69.05	7.9	30.0	PASS	PASS
Bromomethane	1.259	0.100	75.00	112.79	-50.4	30.0	FAIL	PASS → RR Hits
Trichlorofluoromethane	0.895	0.100	75.00	80.82	-7.8	30.0	PASS	PASS
1,1-Dichloroethene	1.185	0.100	75.00	74.42	0.8	20.0	PASS	PASS
Acetone	0.344	0.100	150.00	104.88	30.1	40.0	PASS	PASS
Carbon disulfide	1.051	0.100	150.00	167.68	-11.8	40.0	PASS	PASS
Iodomethane	0.099	0.100	150.00	46.95	68.7	40.0	~~FAIL~~	~~FAIL~~ NR
Methyl tert-butyl ether (MTBE)	1.270	0.100	150.00	151.74	-1.2	30.0	PASS	PASS
Isopropyl ether	1.500	0.100	150.00	167.98	-12.0	40.0	PASS	PASS
tert-Butyl alcohol	0.129	0.100	1500.00	737.26	50.8	40.0	FAIL	PASS → NR
trans-1,2-DCE	1.465	0.100	75.00	79.40	-5.9	30.0	PASS	PASS
tert-Butyl ethyl ether	2.869	0.100	150.00	163.62	-9.1	40.0	PASS	PASS
1,1-Dichloroethane	1.339	0.100	75.00	70.15	6.5	30.0	PASS	PASS
Methylene Chloride	1.561	0.100	75.00	80.06	-6.8	30.0	PASS	PASS
Vinyl Acetate	1.402	0.100	150.00	119.15	20.6	40.0	PASS	PASS
2,2-Dichloropropane	0.822	0.100	75.00	76.74	-2.3	30.0	PASS	PASS
2-Butanone	0.445	0.100	150.00	127.97	14.7	40.0	PASS	PASS
1,1,1-Trichloroethane	1.529	0.100	75.00	77.41	-3.2	30.0	PASS	PASS
tert-Amyl methyl ether	1.380	0.100	150.00	150.81	-0.5	40.0	PASS	PASS
1,1-Dichloropropene	0.669	0.100	75.00	75.43	-0.6	30.0	PASS	PASS
Carbon Tetrachloride	3.156	0.100	75.00	76.86	-2.5	30.0	PASS	PASS
cis-1,2-DCE	2.014	0.100	75.00	78.50	-4.7	30.0	PASS	PASS
Benzene	1.915	0.100	75.00	79.53	-6.0	30.0	PASS	PASS
Chloroform	1.445	0.100	75.00	87.79	-17.1	20.0	PASS	PASS
Bromochloromethane	0.535	0.100	75.00	91.97	-22.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.453	0.100	75.00	90.44	-20.6	30.0	PASS	PASS
Dibromofluoromethane	1.645	0.100	50.00	47.73	4.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.389	0.100	50.00	48.06	3.9	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.718	0.100	75.00	78.53	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	1.962	0.100	75.00	80.68	-7.6	20.0	PASS	PASS
4-Methyl-2-pentanone	2.020	0.100	150.00	161.92	-7.9	40.0	PASS	PASS
Toluene-d8	1.914	0.100	50.00	48.78	2.4	30.0	PASS	PASS

DF 9/8/2014

JBS 9/9/14

9/5/2014 11:20

75ng ccv 9-5-2014.sms

Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.876	0.100	75.00	81.78	-9.0	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.960	0.100	150.00	142.95	4.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.391	0.100	75.00	82.73	-10.3	30.0	PASS	PASS
cis-1,3-dichloropropene	2.099	0.100	75.00	75.94	-1.3	30.0	PASS	PASS
2-Hexanone	0.798	0.100	150.00	131.72	12.2	40.0	PASS	PASS
Bromodichloromethane	2.696	0.100	75.00	80.46	-7.3	30.0	PASS	PASS
Dibromomethane	1.195	0.100	75.00	77.21	-2.9	30.0	PASS	PASS
1,3-Dichloropropane	1.478	0.100	75.00	75.85	-1.1	30.0	PASS	PASS
trans-1,3-dichloropropene	0.768	0.100	75.00	73.73	1.7	30.0	PASS	PASS
Ethylbenzene	3.147	0.100	75.00	80.28	-7.0	20.0	PASS	PASS
mp-Xylenes	2.877	0.100	150.00	160.22	-6.8	30.0	PASS	PASS
1,1,2-Trichloroethane	1.757	0.100	75.00	75.53	-0.7	30.0	PASS	PASS
Chlorobenzene	1.290	0.300	75.00	74.65	0.5	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.461	0.100	75.00	77.63	-3.5	30.0	PASS	PASS
o-Xylene	2.782	0.100	75.00	78.37	-4.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.272	0.100	75.00	74.24	1.0	30.0	PASS	PASS
Dibromochloromethane	1.297	0.100	75.00	74.92	0.1	30.0	PASS	PASS
Isopropylbenzene	2.605	0.100	75.00	74.96	0.1	30.0	PASS	PASS
Styrene	1.240	0.100	75.00	73.47	2.0	30.0	PASS	PASS
n-Propylbenzene	6.169	0.100	75.00	75.48	-0.6	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.569	0.100	75.00	77.35	-3.1	30.0	PASS	PASS
tert-Butylbenzene	4.760	0.100	75.00	73.00	2.7	30.0	PASS	PASS
2-Chlorotoluene	1.514	0.100	75.00	72.67	3.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.796	0.100	50.00	44.06	11.9	30.0	PASS	PASS
sec-Butylbenzene	2.824	0.100	75.00	62.18	17.1	30.0	PASS	PASS
4-Chlorotoluene	1.468	0.100	75.00	67.81	9.6	30.0	PASS	PASS
Bromobenzene	1.429	0.100	75.00	79.21	-5.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.478	0.100	75.00	71.72	4.4	30.0	PASS	PASS
4-Isopropyltoluene	4.649	0.100	75.00	71.39	4.8	30.0	PASS	PASS
Bromoform	1.582	0.100	75.00	69.12	7.8	30.0	PASS	PASS
1,2,3-Trichloropropane	1.216	0.100	75.00	67.74	9.7	30.0	PASS	PASS
n-Butylbenzene	4.505	0.100	75.00	73.70	1.7	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.916	0.300	75.00	78.58	-4.8	30.0	PASS	PASS
1,3-Dichlorobenzene	2.049	0.100	75.00	73.41	2.1	30.0	PASS	PASS
1,4-Dichlorobenzene	2.022	0.100	75.00	74.88	0.2	30.0	PASS	PASS
1,2-Dichlorobenzene	2.027	0.100	75.00	74.93	0.1	30.0	PASS	PASS
Hexachlorobutadiene	4.226	0.100	75.00	65.25	13.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.804	0.100	75.00	77.53	-3.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.561	0.100	75.00	74.18	1.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.567	0.100	75.00	73.88	1.5	30.0	PASS	PASS
Naphthalene	2.883	0.100	75.00	70.28	6.3	30.0	PASS	PASS
2-Methylnaphthalene	2.383	0.100	75.00	79.23	-5.6	40.0	PASS	PASS
1-Methylnaphthalene	2.238	0.100	75.00	76.88	-2.5	40.0	PASS	PASS

DF 9/8/2014

DBJ 9/8/14

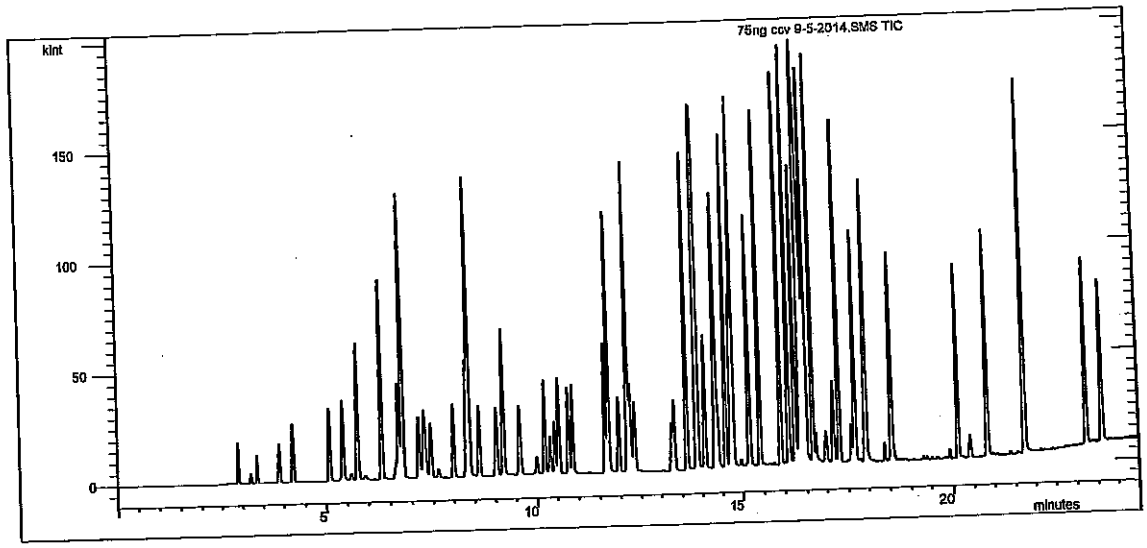
Analyst: djf

8260B/624 Report

Sample Name: 75ng ccv **Operator Name:** Danny Ferraro **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** v-54-0475 **Acquisition Date:** 9/5/2014 10:54:27 AM

Calculation Date: 9/5/2014 11:18:56 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.995	636	Identified	24044	50.000
Benzene-d5-, chloro-	14.306	1195	Identified	34906	50.000
1,4-Dichlorobenzene-d4	17.911	1516	Identified	19779	50.000
Dichlorodifluoromethane	2.903	184	Identified	51962	79.317
Chloromethane	3.202	211	Identified	11493	52.161
Vinyl chloride	3.351	224	Identified	43636	67.636
Chloroethane	3.883	271	Identified	7350	69.047
Bromomethane	3.899	273	Identified	45409	112.786
Trichlorofluoromethane	4.223	301	Identified	32285	80.816
1,1-Dichloroethene	5.080	377	Identified	42746	74.420
Acetone	5.365	403	Identified	24837	104.885
Carbon disulfide	5.397	406	Identified	75817	167.676
Iodomethane	5.596	423	Identified	7172	46.952
Methyl tert-butyl ether (MTBE)	5.750	437	Identified	91602	151.742
Isopropyl ether	6.309	486	Identified	108205	167.980
tert-Butyl alcohol	6.653	517	Identified	93030	737.263
trans-1,2-DCE	6.710	521	Identified	52836	79.404
tert-Butyl ethyl ether	6.798	529	Identified	206922	163.618
1,1-Dichloroethane	7.174	562	Identified	48298	70.150
Methylene Chloride	7.291	573	Identified	56309	80.064
Vinyl Acetate	7.347	578	Identified	101112	119.151
2,2-Dichloropropane	7.451	588	Identified	29629	76.740
2-Butanone	7.634	604	Identified	32075	127.974
1,1,1-Trichloroethane	8.308	664	Identified	55138	77.408

DF
9/8/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.366	669	Identified	99513	150.806
1,1-Dichloropropene	8.381	670	Identified	24125	75.431
Carbon Tetrachloride	8.610	690	Identified	113832	76.856
cis-1,2-DCE	9.026	727	Identified	72648	78.497
Benzene	9.191	742	Identified	69055	79.529
Chloroform	9.588	776	Identified	52107	87.794
Bromochloromethane	10.002	813	Identified	19279	91.968
Trichloroethene (TCE)	10.191	830	Identified	52410	90.439
Dibromofluoromethane	10.328	843	Identified	39553	47.733
1,2-Dichloroethane-d4	10.442	853	Identified	105530	48.065
1,2-Dichloroethane (EDC)	10.535	861	Identified	61946	78.528
1,2-Dichloropropane	10.766	881	Identified	70766	80.684
4-Methyl-2-pentanone	10.864	890	Identified	145671	161.921
Toluene-d8	11.632	958	Identified	66826	48.782
Toluene	11.713	964	Identified	150610	81.778
2-Chloroethyl vinyl ether	11.967	987	Identified	100504	142.955
Tetrachloroethene (PCE)	12.176	1006	Identified	72820	82.731
cis-1,3-dichloropropene	12.176	1006	Identified	109907	75.939
2-Hexanone	12.182	1006	Identified	83516	131.722
Bromodichloromethane	12.245	1012	Identified	141153	80.458
Dibromomethane	12.349	1021	Identified	62573	77.206
1,3-Dichloropropane	13.252	1101	Identified	77375	75.851
trans-1,3-dichloropropene	13.311	1106	Identified	40198	73.734
Ethylbenzene	13.610	1133	Identified	164766	80.276
mp-Xylenes	13.860	1155	Identified	301308	160.221
1,1,2-Trichloroethane	14.065	1173	Identified	91970	75.527
Chlorobenzene	14.329	1197	Identified	67554	74.652
1,2-Dibromoethane (EDB)	14.383	1201	Identified	76497	77.633
o-Xylene	14.579	1219	Identified	145674	78.374
1,1,1,2-Tetrachloroethane	14.706	1230	Identified	118970	74.236
Dibromochloromethane	14.736	1233	Identified	67887	74.923
Isopropylbenzene	14.770	1236	Identified	136402	74.961
Styrene	15.163	1271	Identified	64932	73.472
n-Propylbenzene	15.404	1293	Identified	183032	75.477
1,3,5-Trimethylbenzene	15.897	1336	Identified	135561	77.346
tert-Butylbenzene	16.091	1354	Identified	141215	73.002
2-Chlorotoluene	16.239	1367	Identified	44913	72.665
4-Bromofluorobenzene	16.337	1376	Identified	35517	44.057
sec-Butylbenzene	16.367	1378	Identified	83775	62.180
4-Chlorotoluene	16.403	1382	Identified	43567	67.807
Bromobenzene	16.443	1385	Identified	42407	79.206
1,2,4-Trimethylbenzene	16.495	1390	Identified	132864	71.720
4-Isopropyltoluene	16.657	1404	Identified	137918	71.386
Bromoform	16.985	1434	Identified	46938	69.123
1,2,3-Trichloropropane	17.157	1449	Identified	36072	67.739
n-Butylbenzene	17.285	1461	Identified	133641	73.701
1,1,2,2-Tetrachloroethane	17.578	1487	Identified	56848	78.577
1,3-Dichlorobenzene	17.663	1494	Identified	60795	73.407
1,4-Dichlorobenzene	17.937	1519	Identified	59998	74.878
1,2-Dichlorobenzene	18.541	1573	Identified	60146	74.932

DF
9/8/2014

Inj. Notes: v-54-0475

75ng ccv 9-5-2014.SMS
9/5/2014 11:19

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.127	1713	Identified	125374	65.251
1,2-Dibromo-3-chloropropane	20.416	1739	Identified	23864	77.531
1,2,4-Trichlorobenzene	20.825	1775	Identified	46300	74.183
1,2,3-Trichlorobenzene	21.728	1856	Identified	46487	73.880
Naphthalene	21.736	1856	Identified	85523	70.283
2-Methylnaphthalene	23.220	1990	Identified	70710	79.231
1-Methylnaphthalene	23.609	2025	Identified	66403	76.881

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Revision Log

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DF 9/8/2014

9/5/2014 11:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

arian Star Workstation - Generic SampleList Wed Sep 03 16:29:54 2014

ampleList: C:\VarianWS\090314v.smp

reated: Wed Sep 03 08:31:11 2014
odified: Wed Sep 03 16:29:45 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0521	
2	b1	none ← Tune 9:22
3	2.0ug gro ccv	below @ 8:50
	Notes v-18-2074	
4	2.5ug gro lcs	below
	Notes v-18-2067	
5	75ng ccv	below @ 11:43
	Notes v-54-0475	
6	100ng lcs	below
	Notes v-11-8070	
7	75ng ccv2	below
	Notes V-54-0475	
8	100ng lcs1	below
	Notes V-11-8070	
9	vcb	none ← Tune 12:39
10	1408d26-008a	below
	Notes r100 0.5mL AIR	
11	1408e34-001a	below
	Notes r1-100uL MeOH	
12	1408e34-001a ms	below
	Notes V-11-8070 MeOH	
13	1408e34-001a msd	below
	Notes V-11-8070 MeOH	
14	b2	none
15	1409046-003a	below
	Notes x1-100uL MeOH G, 8260	
16	b3	none
17	1409046-006a	below
	Notes x5-20uL MeOH G, 8260	
18	b4	none
19	1409046-007a	below
	Notes x10-10uL MeOH G,8260	
20	1409046-007a ms	below
	Notes x10 V-11-8070	
21	1409046-007a msd	below
	Notes x10 V-11-8070	
22	1409046-007a ms g	below
	Notes x10 V-18-2067	
23	1409046-007a msd g	below
	Notes x10 V-18-2067	
24	b5	none
25	1408c55-002a	below
	Notes r50 0.1mL (TCE)	
26	1408c55-003a	below
	Notes r50 0.1mL (TCE, 111-TCA)	
27	1408c55-004a	below
	Notes r50 0.1mL (TCE, 111-TCA)	
28	1408c55-007a	below
	Notes r50 0.1mL (TCE, 11-DCA)	
29	lcs-15040	below
	Notes V-11-8069 SoilTCLP	
30	mb-15040	below
	Notes 4681 SoilTCLP	
31 @ 10:58	1408f15-001a	below
	Notes x10-10uL PB15040 SoilTCLP ← Archon Fault: Elevator not homed	
32	1408f15-002a	below
	Notes x10-10uL PB15040 SoilTCLP ~~NOT~~ Data Not acquired	
33	tt	none
34	b6	none
35	50ng ccv	below
	Notes V-54-0475	
36	vcb2	none
37	1408f15-001ams	below
	Notes x10 V-11-8069 SoilTCLP	
38	1408f15-001amsd	below

Loaded By: DF 9/3/2014 / BT 9.3.14
1st Review By: DF 9/4/2014 / BT 9.4.14
QA'd By: VNB 9/4/14

```
39          1408f15-003a      below
               Notes  x10-10uL PB15040 SoilTCLP
40          1408f15-004a      below
               Notes  x10-10uL PB15040 SoilTCLP
41          1408f15-005a      below
               Notes  x10-10uL PB15040 SoilTCLP
42          1408f15-006a      below
               Notes  x10-10uL PB15040 SoilTCLP
43             lcs-15046      below
               Notes  V-11-8069 PB15040 V_O
44           lcsd-15046       below
               Notes  V-11-8069 PB15040 V_O
45             mb-15046       below
               Notes  4681 V_O
46          1408f17-002a      below
               Notes  x100-1uL PB15046 V_O
47          1408f17-003a      below
               Notes  x100-1uL PB15046 V_O
48                   tt        none
49

)irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

:reate and update a new RecalcList: c:\varianws\090314v.rcl.
```

Loaded By: DF 9/3/2014
1st Review By: DF 9/4/2014
QA'd By: JDB 9/4/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090314v\75ng ccv2 9-3-2014.SMS Lab Sample ID: 75ng ccv2

Instrument ID: VAL Date Analyzed: 9/3/2014 Time Analyzed: 11:43

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	26473	8.00	38758	14.31	21535	17.92						
UPPER LIMIT	52946	8.50	77516	14.81	43070	18.42						
LOWER LIMIT	13237	7.50	19379	13.81	10768	17.42						
EPA SAMPLE NO												
rtm 9-3-20	26971	8.00	39202	14.31	22220	17.92						
b1 9-3-201	25792	8.00	37592	14.31	21698	17.92						
2.0ug gro	27396	8.00	38987	14.31	21443	17.91						
2.5ug gro	27258	8.00	39814	14.31	21575	17.91						
75ng ccv 9	25503	8.01	38258	14.31	21274	17.92						
100ng lcs	24769	8.01	37855	14.31	21116	17.92						
100ng lcs1	25160	8.00	38849	14.31	20893	17.92						
vcb 9-3-20	26582	8.01	38075	14.32	21768	17.92						
1408d26-00	26274	8.01	37172	14.31	20159	17.92						
1408e34-00	28486	8.00	39384	14.31	22178	17.92						
1408e34-00	26124	8.01	35745	14.32	23652	17.92						
1408e34-00	28855	8.01	38489	14.32	25529	17.92						
b2 9-3-201	30008	8.01	40352	14.32	22821	17.93						
1409046-003a	30532	8.01	40906	14.32	25211	17.93						
b3 9-3-201	28735	8.02	38709	14.32	23212	17.93						
1409046-006a	28895	8.01	43478	14.32	20038 D	17.92 D						

DF 9/4/2014

WB 9/4/14

RT ✓ + SP ✓ + AC ✓ OK DF 9/4/2014

9/4/2014 7:50

Analyst: djf

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
b4 9-3-201	28286	8.01	39440	14.32	21438	17.92						
1409046-007a	27225	8.01	41159	14.32	21298 D	17.92 D						
1409046-007a ms	27419	8.01	41679	14.32	21851 D	17.92 D						
1409046-007a msd	29056	8.01	43446	14.32	19197 D	17.92 D						
1409046-007a ms 9	28222	8.02	42662	14.33	22531 D	17.93 D						
1409046-007a msd 9	29017	8.01	40929	14.33	25733 D	17.93 D						
b5 9-3-201	28246	8.01	40441	14.32	21818	17.92						
1408c55-00	26124	8.02	38916	14.32	21458	17.93						
1408c55-00	25935	8.01	37797	14.33	21268	17.93						
1408c55-00	25655	8.01	37218	14.32	21199	17.93						
1408c55-00	25985	8.02	37994	14.32	20419	17.93						
lcs-15040	30391	8.01	41459	14.32	23290	17.93						
mb-15040 9	27570	8.01	36644	14.33	23642	17.93						
1408f15-00	29293	8.01	39357	14.32	22423	17.93						

* RT ✓ + AR ✓ + SP ✓ OK DF 9/4/2014

DF
9/4/2014

JWB 9/4/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Internal Standard And RT Summary

9/4/2014 7:50
Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/3/2014 Time: 9:50

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090314v\gro\2.0ug gro ccv 9-3-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2715.498	0.100	2.00	1.93	3.5	20.0	PASS	PASS
BFB	0.986	0.100	50.00	47.34	5.3	30.0	PASS	PASS

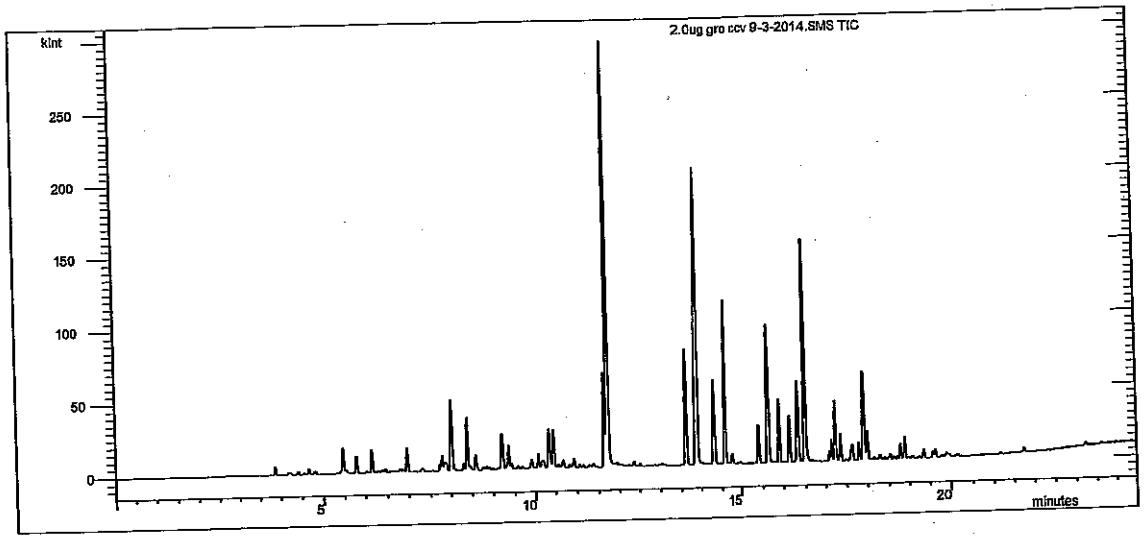
AR 9.4.14

VNB 9/4/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.0ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/3/2014 9:50:39 AM
Calculation Date:	9/3/2014 10:18:42 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.309	1195	Identified	38601	50.000
GRO	11.000	903	Identified	4.193E6	1.931
BFB	16.339	1375	Identified	38043	47.343

****
Revision Log
****

9/3/2014 10:15 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
9/3/2014 10:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/3/2014 Time: 11:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv2 9-3-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.955	0.100	75.00	107.52	-43.4	30.0	FAIL	PASS
Chloromethane	0.391	0.100	75.00	63.84	14.9	30.0	PASS	PASS
Vinyl chloride	1.243	0.100	75.00	69.45	7.4	20.0	PASS	PASS
Chloroethane	0.194	0.100	75.00	65.85	12.2	30.0	PASS	PASS
Bromomethane	1.032	0.100	75.00	92.48	-23.3	30.0	PASS	PASS
Trichlorofluoromethane	0.932	0.100	75.00	84.14	-12.2	30.0	PASS	PASS
1,1-Dichloroethene	1.313	0.100	75.00	82.32	-9.8	20.0	PASS	PASS
Acetone	0.390	0.100	150.00	119.15	20.6	40.0	PASS	PASS
Carbon disulfide	1.125	0.100	150.00	179.50	-19.7	40.0	PASS	PASS
Iodomethane	0.174	0.100	150.00	67.84	54.8	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.244	0.100	150.00	148.57	1.0	30.0	PASS	PASS
Isopropyl ether	1.428	0.100	150.00	159.89	-6.6	40.0	PASS	PASS
tert-Butyl alcohol	0.202	0.100	1500.00	1133.44	24.4	40.0	PASS	PASS
trans-1,2-DCE	1.499	0.100	75.00	81.21	-8.3	30.0	PASS	PASS
tert-Butyl ethyl ether	2.844	0.100	150.00	162.19	-8.1	40.0	PASS	PASS
1,1-Dichloroethane	1.360	0.100	75.00	71.23	5.0	30.0	PASS	PASS
Methylene Chloride	1.411	0.100	75.00	72.44	3.4	30.0	PASS	PASS
Vinyl Acetate	1.886	0.100	150.00	158.99	-6.0	40.0	PASS	PASS
2,2-Dichloropropane	0.887	0.100	75.00	82.87	-10.5	30.0	PASS	PASS
2-Butanone	0.400	0.100	150.00	116.41	22.4	40.0	PASS	PASS
1,1,1-Trichloroethane	1.489	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.321	0.100	150.00	144.35	3.8	40.0	PASS	PASS
1,1-Dichloropropene	0.681	0.100	75.00	76.79	-2.4	30.0	PASS	PASS
Carbon Tetrachloride	3.119	0.100	75.00	75.94	-1.3	30.0	PASS	PASS
cis-1,2-DCE	1.935	0.100	75.00	75.44	-0.6	30.0	PASS	PASS
Benzene	1.922	0.100	75.00	79.82	-6.4	30.0	PASS	PASS
Chloroform	1.424	0.100	75.00	86.52	-15.4	20.0	PASS	PASS
Bromochloromethane	0.535	0.100	75.00	92.00	-22.7	30.0	PASS	PASS
Trichloroethene (TCE)	1.334	0.100	75.00	82.99	-10.7	30.0	PASS	PASS
Dibromofluoromethane	1.642	0.100	50.00	47.64	4.7	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.381	0.100	50.00	47.99	4.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.758	0.100	75.00	80.36	-7.1	30.0	PASS	PASS
1,2-Dichloropropane	1.973	0.100	75.00	81.12	-8.2	20.0	PASS	PASS
4-Methyl-2-pentanone	1.883	0.100	150.00	151.12	-0.7	40.0	PASS	PASS
Toluene-d8	1.872	0.100	50.00	47.77	4.5	30.0	PASS	PASS

RR Hits

NR

DF 9/9/2014

DB 9/9/14

9/3/2014 12:09 Page 1 of 2 75ng ccv2 9-3-2014.sms

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.675	0.100	75.00	76.04	-1.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.817	0.100	150.00	122.01	18.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.305	0.100	75.00	77.60	-3.5	30.0	PASS	PASS
cis-1,3-dichloropropene	1.990	0.100	75.00	72.01	4.0	30.0	PASS	PASS
2-Hexanone	0.904	0.100	150.00	149.22	0.5	40.0	PASS	PASS
Bromodichloromethane	2.535	0.100	75.00	75.68	-0.9	30.0	PASS	PASS
Dibromomethane	1.118	0.100	75.00	72.20	3.7	30.0	PASS	PASS
1,3-Dichloropropane	1.403	0.100	75.00	72.00	4.0	30.0	PASS	PASS
trans-1,3-dichloropropene	0.724	0.100	75.00	69.51	7.3	30.0	PASS	PASS
Ethylbenzene	3.005	0.100	75.00	76.66	-2.2	20.0	PASS	PASS
mp-Xylenes	2.680	0.100	150.00	149.27	0.5	30.0	PASS	PASS
1,1,2-Trichloroethane	1.710	0.100	75.00	73.53	2.0	30.0	PASS	PASS
Chlorobenzene	1.235	0.300	75.00	71.49	4.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.393	0.100	75.00	74.03	1.3	30.0	PASS	PASS
o-Xylene	2.676	0.100	75.00	75.38	-0.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.140	0.100	75.00	69.90	6.8	30.0	PASS	PASS
Dibromochloromethane	1.265	0.100	75.00	73.09	2.6	30.0	PASS	PASS
Isopropylbenzene	2.461	0.100	75.00	70.82	5.6	30.0	PASS	PASS
Styrene	1.153	0.100	75.00	68.36	8.9	30.0	PASS	PASS
n-Propylbenzene	5.945	0.100	75.00	72.74	3.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.174	0.100	75.00	70.63	5.8	30.0	PASS	PASS
tert-Butylbenzene	4.306	0.100	75.00	66.00	12.0	30.0	PASS	PASS
2-Chlorotoluene	1.390	0.100	75.00	66.70	11.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.736	0.100	50.00	42.59	14.8	30.0	PASS	PASS
sec-Butylbenzene	2.731	0.100	75.00	60.15	19.8	30.0	PASS	PASS
4-Chlorotoluene	1.453	0.100	75.00	67.12	10.5	30.0	PASS	PASS
Bromobenzene	1.369	0.100	75.00	75.85	-1.1	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.301	0.100	75.00	68.87	8.2	30.0	PASS	PASS
4-Isopropyltoluene	4.497	0.100	75.00	69.06	7.9	30.0	PASS	PASS
Bromoform	1.630	0.100	75.00	71.19	5.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.202	0.100	75.00	66.96	10.7	30.0	PASS	PASS
n-Butylbenzene	4.502	0.100	75.00	73.66	1.8	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.833	0.300	75.00	75.17	-0.2	30.0	PASS	PASS
1,3-Dichlorobenzene	2.001	0.100	75.00	71.69	4.4	30.0	PASS	PASS
1,4-Dichlorobenzene	1.929	0.100	75.00	71.45	4.7	30.0	PASS	PASS
1,2-Dichlorobenzene	1.872	0.100	75.00	69.18	7.8	30.0	PASS	PASS
Hexachlorobutadiene	4.073	0.100	75.00	62.89	16.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.738	0.100	75.00	71.10	5.2	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.382	0.100	75.00	65.74	12.3	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.465	0.100	75.00	69.10	7.9	30.0	PASS	PASS
Naphthalene	2.711	0.100	75.00	66.15	11.8	30.0	PASS	PASS
2-Methylnaphthalene	2.149	0.100	75.00	71.49	4.7	40.0	PASS	PASS
1-Methylnaphthalene	1.965	0.100	75.00	67.57	9.9	40.0	PASS	PASS

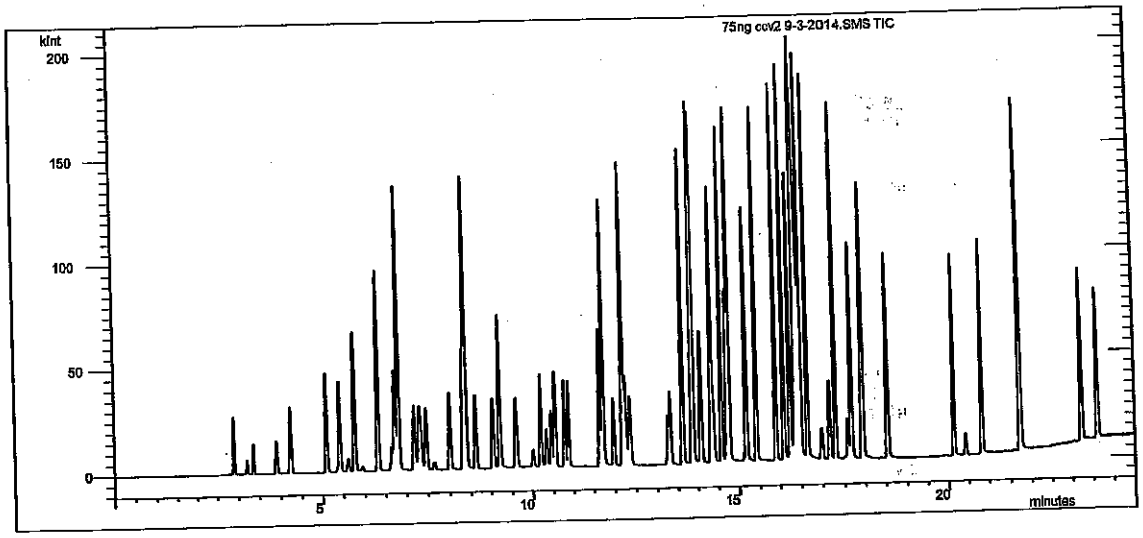
DJF 9/4/2014

✓ NBS 9/4/14

Analyst: RAA

8260B/624 Report

Sample Name:	75ng ccv2	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0475	**Acquisition Date:**	9/3/2014 11:43:19 AM
Calculation Date:	9/3/2014 12:07:49 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.004	637	Identified	26473	50.000
Benzene-d5-, chloro-	14.310	1196	Identified	38758	50.000
1,4-Dichlorobenzene-d4	17.916	1516	Identified	21535	50.000
Dichlorodifluoromethane	2.908	185	Identified	77646	107.524
Chloromethane	3.210	211	Identified	15525	63.839
Vinyl chloride	3.359	225	Identified	49360	69.451
Chloroethane	3.893	272	Identified	7705	65.848
Bromomethane	3.911	274	Identified	40982	92.483
Trichlorofluoromethane	4.235	302	Identified	37001	84.144
1,1-Dichloroethene	5.096	378	Identified	52128	82.317
Acetone	5.374	403	Identified	30979	119.146
Carbon disulfide	5.410	406	Identified	89326	179.502
Iodomethane	5.612	424	Identified	13805	67.839
Methyl tert-butyl ether (MTBE)	5.762	438	Identified	98758	148.570
Isopropyl ether	6.321	487	Identified	113374	159.893
tert-Butyl alcohol	6.645	516	Identified	160389	1133.437
trans-1,2-DCE	6.724	523	Identified	59513	81.205
tert-Butyl ethyl ether	6.808	530	Identified	225831	162.185
1,1-Dichloroethane	7.187	564	Identified	54015	71.228
Methylene Chloride	7.305	574	Identified	56027	72.443
Vinyl Acetate	7.358	579	Identified	149746	158.990
2,2-Dichloropropane	7.466	589	Identified	35207	82.867
2-Butanone	7.647	605	Identified	31792	116.408
1,1,1-Trichloroethane	8.320	665	Identified	59110	75.376

DF
9/4/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.375	669	Identified	104887	144.349
1,1-Dichloropropene	8.392	671	Identified	27039	76.792
Carbon Tetrachloride	8.620	691	Identified	123840	75.939
cis-1,2-DCE	9.039	728	Identified	76847	75.437
Benzene	9.200	742	Identified	76311	79.821
Chloroform	9.596	777	Identified	56537	86.521
Bromochloromethane	10.007	814	Identified	21235	92.003
Trichloroethene (TCE)	10.198	831	Identified	52961	82.991
Dibromofluoromethane	10.338	844	Identified	43457	47.636
1,2-Dichloroethane-d4	10.452	854	Identified	115980	47.987
1,2-Dichloroethane (EDC)	10.544	862	Identified	69824	80.359
1,2-Dichloropropane	10.773	882	Identified	78348	81.124
4-Methyl-2-pentanone	10.871	891	Identified	149543	151.123
Toluene-d8	11.640	959	Identified	72568	47.771
Toluene	11.719	966	Identified	155526	76.044
2-Chloroethyl vinyl ether	11.970	988	Identified	95047	122.014
Tetrachloroethene (PCE)	12.183	1007	Identified	75856	77.597
cis-1,3-dichloropropene	12.179	1007	Identified	115695	72.006
2-Hexanone	12.189	1008	Identified	105150	149.216
Bromodichloromethane	12.250	1013	Identified	147359	75.681
Dibromomethane	12.354	1022	Identified	64985	72.202
1,3-Dichloropropane	13.256	1102	Identified	81556	72.004
trans-1,3-dichloropropene	13.315	1107	Identified	42067	69.509
Ethylbenzene	13.613	1134	Identified	174698	76.662
mp-Xylenes	13.863	1156	Identified	311655	149.266
1,1,2-Trichloroethane	14.069	1174	Identified	99390	73.528
Chlorobenzene	14.334	1198	Identified	71826	71.492
1,2-Dibromoethane (EDB)	14.388	1203	Identified	81005	74.027
o-Xylene	14.583	1220	Identified	155576	75.384
1,1,1,2-Tetrachloroethane	14.710	1231	Identified	124387	69.904
Dibromochloromethane	14.745	1234	Identified	73581	73.086
Isopropylbenzene	14.774	1237	Identified	143084	70.821
Styrene	15.168	1272	Identified	67049	68.359
n-Propylbenzene	15.408	1294	Identified	192043	72.739
1,3,5-Trimethylbenzene	15.901	1337	Identified	134837	70.627
tert-Butylbenzene	16.095	1354	Identified	139105	65.999
2-Chlorotoluene	16.244	1367	Identified	44899	66.704
4-Bromofluorobenzene	16.341	1376	Identified	37377	42.590
sec-Butylbenzene	16.369	1379	Identified	88227	60.155
4-Chlorotoluene	16.408	1382	Identified	46951	67.119
Bromobenzene	16.448	1386	Identified	44225	75.853
1,2,4-Trimethylbenzene	16.499	1390	Identified	138924	68.871
4-Isopropyltoluene	16.661	1405	Identified	145275	69.061
Bromoform	16.991	1434	Identified	52645	71.192
1,2,3-Trichloropropane	17.161	1449	Identified	38822	66.955
n-Butylbenzene	17.289	1461	Identified	145431	73.664
1,1,2,2-Tetrachloroethane	17.583	1487	Identified	59195	75.168
1,3-Dichlorobenzene	17.667	1494	Identified	64643	71.692
1,4-Dichlorobenzene	17.941	1519	Identified	62326	71.452
1,2-Dichlorobenzene	18.546	1572	Identified	60464	69.176

DF
9/4/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.131	1712	Identified	131563	62.888
1,2-Dibromo-3-chloropropane	20.420	1738	Identified	23829	71.103
1,2,4-Trichlorobenzene	20.830	1774	Identified	44630	65.742
1,2,3-Trichlorobenzene	21.733	1855	Identified	47330	69.098
Naphthalene	21.741	1855	Identified	87586	66.150
2-Methylnaphthalene	23.225	1990	Identified	69406	71.490
1-Methylnaphthalene	23.614	2025	Identified	63487	67.568

****
Revision Log
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DF 9/4/2014

9/3/2014 12:07 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

23829
44630
47330
87586
69406

rian Star Workstation - Generic SampleList Thu Sep 04 16:21:06 2014

mpleList: C:\VarianWS\090414v.smp

eated: Thu Sep 04 07:26:13 2014
dified: Thu Sep 04 16:20:52 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injection contain v-52-0526	
2	b1	none ← Tune 8:22
3	2.5ug gro ccv	below @ 8:50
	Notes v-18-2074	
4	2.5ug gro lcs	below
	Notes v-18-2067	
5	50ng ccv	below @ 9:46
	Notes v-54-0475	
6	100ng lcs	below
	Notes v-11-8070	
7	vcb1	none
8	1409136-004a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
9	1409136-001a	below
	Notes x1-100uL MeOH GRO	
10	1409136-002a	below
	Notes x1-100uL MeOH GRO, 8260	
11	b2	none ← Tune 12:36
12	1409046-001a	below
	Notes x1-100uL MeOH GRO r1 00 ✓	
13	1409046-002a	below
	Notes x1-100uL MeOH GRO	
14	1409046-004a	below
	Notes x1-100uL MeOH GRO	
15	1409046-005a	below
	Notes x1-100uL MeOH GRO	
16	1409046-001a ms g	below
	Notes V-18-2067 MeOH	
17	1409046-001a msd g	below
	Notes V-18-2067 MeOH	
18	1408f15-001ams	below
	Notes x10 V-11-8069 PB15040 SoilTCLP	
19	1408f15-001amsd	below
	Notes x10 V-11-8069 PB15040 SoilTCLP	
20	1408f15-002a	below
	Notes x10-10uL PB15040	
21	1408f15-003a	below
	Notes x10-10uL PB15040	
22	1408f15-004a	below
	Notes x10-10uL PB15040	
23	1408f15-005a	below
	Notes x10-10uL PB15040	
24	1408f15-006a	below
	Notes x10-10uL PB15040	
25	lcs-15046	below
	Notes V-11-8069 V_O	
26	lcsd-15046	below
	Notes V-11-8069 V_O	
27	mb-15046	below
	Notes 4681 V_O	
28	1408f17-002a	below
	Notes x100-100uL PB15046 V_O	
29	1408f17-003a	below
	Notes x100-100uL PB15046 V_O PSO, 4K	
30 @ 9:29	lcs-15069	below
	Notes V-11-8070 TCLP	
31	tt	none
32	b3	none ← Tune 10:25
33	100ng ccv	below @ 10:53
	Notes V-54-0475	
34	vcb2	none
35	mb-15069	below
	Notes TCLP Fluid#1-1422	
36	1408f14-001a	below
	Notes x1-TCLP PB15069	

DF 9/4/2014
Loaded By: DF 9-4-14
1st Review By: M 9-5-14
QA'd By: ✓
VB 9/8/14

```
                Notes  V-11-8070 TCLP PB15069
38        1408f14-001amsd      below
                Notes  V-11-8070 TCLP PB15069
39           1408f14-002a      below
                Notes  x1-TCLP PB15069
40              lcs-15063      below
                Notes  V-11-8070
41              mb-15063       below
                Notes  4681
42           1408f23-001a      below
                Notes  x1-100uL PB15063
43         1408f23-001ams      below
                Notes  V-11-8070 PB15063
44        1408f23-001amsd      below
                Notes  V-11-8070 PB15063
45           1409061-001a      below
                Notes  x1-100uL MeOH QCw/PB15063
46           1409061-002a      below
                Notes  x1-100uL MeOH QCw/PB15063
47           1409061-005a      below
                Notes  x1-100uL MeOH Blk QCw/PB15063
48           1409062-001a      below
                Notes  x50-2uL MeOH QCw/PB15063
49           1409062-002a      below
                Notes  x5-20uL MeOH QCw/PB15063
50 @ 6:48    1409062-007a      below
                Notes  x1-100uL MeOH Blk QCw/PB15063
51                -3 x10       none
52                -2 x10       none
53                    tt       none
54

Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\090414v.rcl.
```

15

Loaded By: 9-4-14 DF 9/4/2014
1st Review By: 9-5-14
QA'd By: 9/8/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090414v\50ng ccv 9-4-2014.SMS Lab Sample ID: 50ng ccv

Instrument ID: VAL Date Analyzed: 9/4/2014 Time Analyzed: 09:46

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	26171	8.00	37895	14.31	21361	17.92						
UPPER LIMIT	52342	8.50	75790	14.81	42722	18.42						
LOWER LIMIT	13086	7.50	18948	13.81	10681	17.42						
EPA SAMPLE NO												
rtm 9-4-20	31814	8.01	42651	14.32	24409	17.92						
b1 9-4-201	26972	8.01	38009	14.32	22624	17.92						
2.5ug gro	26145	8.01	37984	14.32	22076	17.92						
2.5ug gro	27193	8.01	38618	14.31	21352	17.92						
100ng lcs	24329	8.00	36256	14.31	20786	17.92						
vcb1 9-4-2	25541	8.00	37229	14.31	20649	17.91						
1409136-00	29110	8.00	37280	14.31	21731	17.91						
1409136-00	28214	8.00	35925	14.32	22784 J	17.92						
1409136-00	27197	8.01	37315	14.32	23607 D J	17.92 D J sdJ						
b2 9-4-201	31755	8.00	41812	14.31	23518	17.92						
1409046-00	31577	8.00	40413	14.32	24512	17.92						
1409046-00	27045	8.01	38086	14.32	24324	17.92						
1409046-00	30484	8.01	39136	14.31	24091	17.92						
1409046-00	30603	8.01	38230	14.32	25269	17.93						
1409046-00	30580	8.01	41081	14.32	26230	17.92						
1409046-00	31677	8.01	39938	14.32	26100	17.93						

9/5/2014 8:35

Analyst: djf

Internal Standard And RT Summary

9-5-14

9/8/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408f15-00	30404	8.01	41961	14.32	22213	17.92						
1408f15-00	27804	8.01	38923	14.32	21798	17.92						
1408f15-00	26678	8.01	38147	14.32	21383	17.92						
1408f15-00	27359	8.01	38720	14.32	22045	17.92						
1408f15-00	26024	8.01	37185	14.32	21387	17.92						
1408f15-00	26489	8.00	37768	14.31	22149	17.92						
1408f15-00	26931	8.00	37497	14.31	21616	17.92						
lcs-15046	28947	8.00	38826	14.31	24345	17.91						
lcsd-15046	29653	8.00	38706	14.31	24417	17.91						
mb-15046 9	29181	8.00	37764	14.31	25603	17.92						
1408f17-00	28706	8.00	40706	14.31	22573	17.91						
1408f17-00	26774	8.00	37884	14.31	21968	17.91						
lcs-15069	25774	7.99	38576	14.31	20517	17.91						
tt 9-4-201	26204	8.00	37673	14.31	20934	17.91						
b3 9-4-201	23679	8.00	35162	14.31	19069	17.92						
100ng ccv	24151	8.00	35511	14.31	20166	17.91						
vcb2 9-4-2	24677	8.00	35926	14.31	19677	17.91						
mb-15069 9	22865	8.00	35087	14.31	19919	17.91						
1408f14-00	23561	8.00	33983	14.31	18784	17.91						
1408f14-00	25275	8.00	35270	14.31	18816	17.91						
1408f14-00	23337	8.00	35780	14.31	18980	17.91						
1408f14-00	23984	8.00	36212	14.31	19613	17.91						
lcs-15063	26854	7.99	36538	14.31	22107	17.92						
mb-15063 9	28812	7.99	36045	14.31	23079	17.91						
1408f23-00	27915	7.99	37009	14.31	23259	17.91						
1408f23-00	27069	7.99	38287	14.31	24287	17.91						
1408f23-00	27690	7.99	38537	14.31	23669	17.91						
1409061-00	26443	7.99	36758	14.31	23260	17.91						
1409061-00	29059	7.99	37041	14.31	23123	17.91						
1409061-00	30590	7.99	38933	14.31	24970	17.91						
1409062-00	26344	8.00	37181	14.31	20872	17.91						
1409062-00	25277	7.99	35483	14.31	20303	17.91						
1409062-00	27364	7.99	36162	14.31	22622	17.91						
-3 x10 9-5	28392	8.00	41023	14.31	0 D	17.91 D	-WL					

9/5/2014 8:35

Analyst: djf

Internal Standard And RT Summary

9-5-14

WB 9/8/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
-2 x10 9-5	29224	8.00	40297	14.31	23099 D	17.91 D						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

9-5-14

9/8/14

Internal Standard And RT Summary

9/5/2014 8:35
Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/4/2014 Time: 8:50

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090414v\gro\2.5ug gro ccv 9-4-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2760.019	0.100	2.50	2.58	-3.1	20.0	PASS	PASS
BFB	1.039	0.100	50.00	49.90	0.2	30.0	PASS	PASS

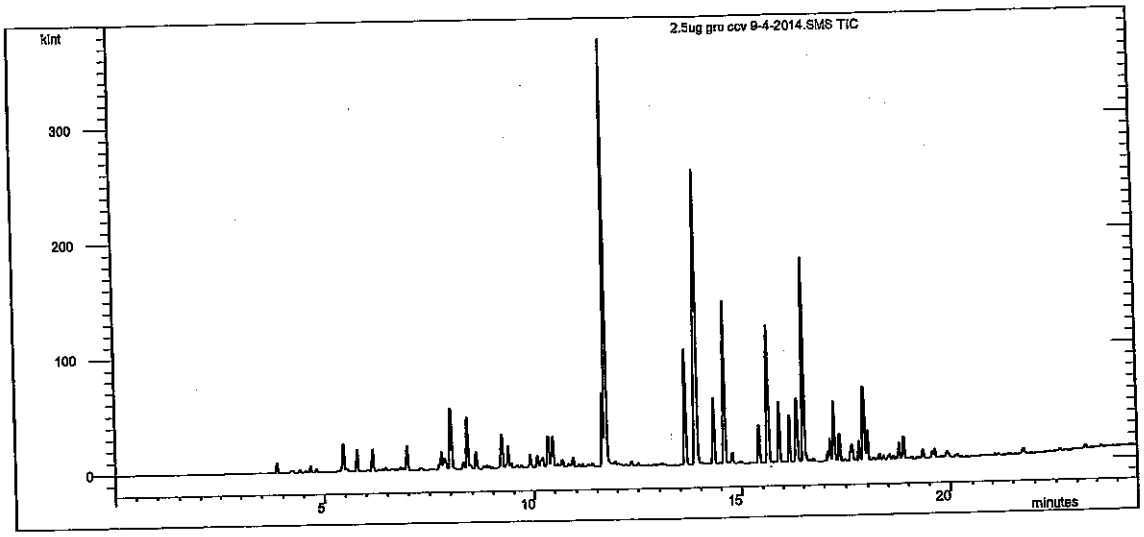
9-5-14

✓ JB 9/8/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/4/2014 8:50:17 AM
Calculation Date:	9/4/2014 9:21:46 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.316	1195	Identified	37331	50.000
GRO	11.000	903	Identified	5.152E6	2.576
BFB	16.347	1376	Identified	38780	49.901

```
**********************************************************
Revision Log
**********************************************************

9/4/2014 9:14 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/4/2014 9:21 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/4/2014 Time: 9:46

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv 9-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.694	0.100	50.00	62.24	-24.5	30.0	PASS	PASS
Chloromethane	0.330	0.100	50.00	36.20	27.6	30.0	PASS	PASS
Vinyl chloride	1.125	0.100	50.00	42.43	15.1	20.0	PASS	PASS
Chloroethane	0.174	0.100	50.00	40.28	19.4	30.0	PASS	PASS
Bromomethane	1.005	0.100	50.00	60.09	-20.2	30.0	PASS	PASS
Trichlorofluoromethane	0.899	0.100	50.00	53.92	-7.8	30.0	PASS	PASS
1,1-Dichloroethene	1.311	0.100	50.00	55.12	-10.2	20.0	PASS	PASS
Acetone	0.392	0.100	100.00	78.92	21.1	40.0	PASS	PASS
Carbon disulfide	1.079	0.100	100.00	114.41	-14.4	40.0	PASS	PASS
Iodomethane	0.119	0.100	100.00	41.30	58.7	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.296	0.100	100.00	103.05	-3.1	30.0	PASS	PASS
Isopropyl ether	1.506	0.100	100.00	112.69	-12.7	40.0	PASS	PASS
tert-Butyl alcohol	0.193	0.100	1000.00	734.64	26.5	40.0	PASS	PASS
trans-1,2-DCE	1.477	0.100	50.00	53.72	-7.4	30.0	PASS	PASS
tert-Butyl ethyl ether	3.005	0.100	100.00	114.36	-14.4	40.0	PASS	PASS
1,1-Dichloroethane	1.260	0.100	50.00	44.63	10.7	30.0	PASS	PASS
Methylene Chloride	1.541	0.100	50.00	53.00	-6.0	30.0	PASS	PASS
Vinyl Acetate	1.604	0.100	100.00	91.75	8.2	40.0	PASS	PASS
2,2-Dichloropropane	0.881	0.100	50.00	54.72	-9.4	30.0	PASS	PASS
2-Butanone	0.423	0.100	100.00	85.13	14.9	40.0	PASS	PASS
1,1,1-Trichloroethane	1.515	0.100	50.00	51.20	-2.4	30.0	PASS	PASS
tert-Amyl methyl ether	1.404	0.100	100.00	102.23	-2.2	40.0	PASS	PASS
1,1-Dichloropropene	0.693	0.100	50.00	51.94	-3.9	30.0	PASS	PASS
Carbon Tetrachloride	3.252	0.100	50.00	52.75	-5.5	30.0	PASS	PASS
cis-1,2-DCE	2.050	0.100	50.00	53.43	-6.9	30.0	PASS	PASS
Benzene	1.964	0.100	50.00	54.36	-8.7	30.0	PASS	PASS
Chloroform	1.478	0.100	50.00	59.97	-19.9	20.0	PASS	PASS
Bromochloromethane	0.537	0.100	50.00	61.64	-23.3	30.0	PASS	PASS
Trichloroethene (TCE)	1.459	0.100	50.00	60.48	-21.0	30.0	PASS	PASS
Dibromofluoromethane	1.594	0.100	50.00	46.31	7.4	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.393	0.100	50.00	48.10	3.8	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.735	0.100	50.00	53.32	-6.6	30.0	PASS	PASS
1,2-Dichloropropane	1.926	0.100	50.00	53.19	-6.4	20.0	PASS	PASS
4-Methyl-2-pentanone	2.003	0.100	100.00	107.85	-7.9	40.0	PASS	PASS
Toluene-d8	1.828	0.100	50.00	46.70	6.6	30.0	PASS	PASS

NR

9-5-14

NB 9/8/14

Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.883	0.100	50.00	54.60	-9.2	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.949	0.100	100.00	94.81	5.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.393	0.100	50.00	55.16	-10.3	30.0	PASS	PASS
cis-1,3-dichloropropene	2.109	0.100	50.00	50.95	-1.9	30.0	PASS	PASS
2-Hexanone	0.980	0.100	100.00	108.10	-8.1	40.0	PASS	PASS
Bromodichloromethane	2.705	0.100	50.00	54.01	-8.0	30.0	PASS	PASS
Dibromomethane	1.201	0.100	50.00	51.69	-3.4	30.0	PASS	PASS
1,3-Dichloropropane	1.474	0.100	50.00	50.43	-0.9	30.0	PASS	PASS
trans-1,3-dichloropropene	0.783	0.100	50.00	50.21	-0.4	30.0	PASS	PASS
Ethylbenzene	3.135	0.100	50.00	53.37	-6.7	20.0	PASS	PASS
mp-Xylenes	2.852	0.100	100.00	105.93	-5.9	30.0	PASS	PASS
1,1,2-Trichloroethane	1.739	0.100	50.00	50.11	-0.2	30.0	PASS	PASS
Chlorobenzene	1.317	0.300	50.00	50.85	-1.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.480	0.100	50.00	52.37	-4.7	30.0	PASS	PASS
o-Xylene	2.846	0.100	50.00	53.46	-6.9	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.326	0.100	50.00	50.66	-1.3	30.0	PASS	PASS
Dibromochloromethane	1.385	0.100	50.00	53.36	-6.7	30.0	PASS	PASS
Isopropylbenzene	2.656	0.100	50.00	50.97	-1.9	30.0	PASS	PASS
Styrene	1.269	0.100	50.00	50.27	-0.5	30.0	PASS	PASS
n-Propylbenzene	6.489	0.100	50.00	52.95	-5.9	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.570	0.100	50.00	51.45	-2.9	30.0	PASS	PASS
tert-Butylbenzene	4.828	0.100	50.00	49.20	1.6	30.0	PASS	PASS
2-Chlorotoluene	1.470	0.100	50.00	46.97	6.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.829	0.100	50.00	44.87	10.3	30.0	PASS	PASS
sec-Butylbenzene	2.838	0.100	50.00	41.78	16.4	30.0	PASS	PASS
4-Chlorotoluene	1.537	0.100	50.00	47.42	5.2	30.0	PASS	PASS
Bromobenzene	1.464	0.100	50.00	53.98	-8.0	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.630	0.100	50.00	49.40	1.2	30.0	PASS	PASS
4-Isopropyltoluene	4.753	0.100	50.00	48.64	2.7	30.0	PASS	PASS
Bromoform	1.607	0.100	50.00	46.97	6.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.206	0.100	50.00	44.70	10.6	30.0	PASS	PASS
n-Butylbenzene	4.745	0.100	50.00	51.94	-3.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	2.009	0.300	50.00	55.06	-10.1	30.0	PASS	PASS
1,3-Dichlorobenzene	2.120	0.100	50.00	50.66	-1.3	30.0	PASS	PASS
1,4-Dichlorobenzene	1.993	0.100	50.00	49.28	1.4	30.0	PASS	PASS
1,2-Dichlorobenzene	1.990	0.100	50.00	49.00	2.0	30.0	PASS	PASS
Hexachlorobutadiene	4.206	0.100	50.00	43.30	13.4	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.794	0.100	50.00	50.99	-2.0	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.511	0.100	50.00	48.08	3.8	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.556	0.100	50.00	48.99	2.0	30.0	PASS	PASS
Naphthalene	2.879	0.100	50.00	47.04	5.9	30.0	PASS	PASS
2-Methylnaphthalene	2.283	0.100	50.00	50.83	-1.7	40.0	PASS	PASS
1-Methylnaphthalene	2.194	0.100	50.00	50.40	-0.8	40.0	PASS	PASS

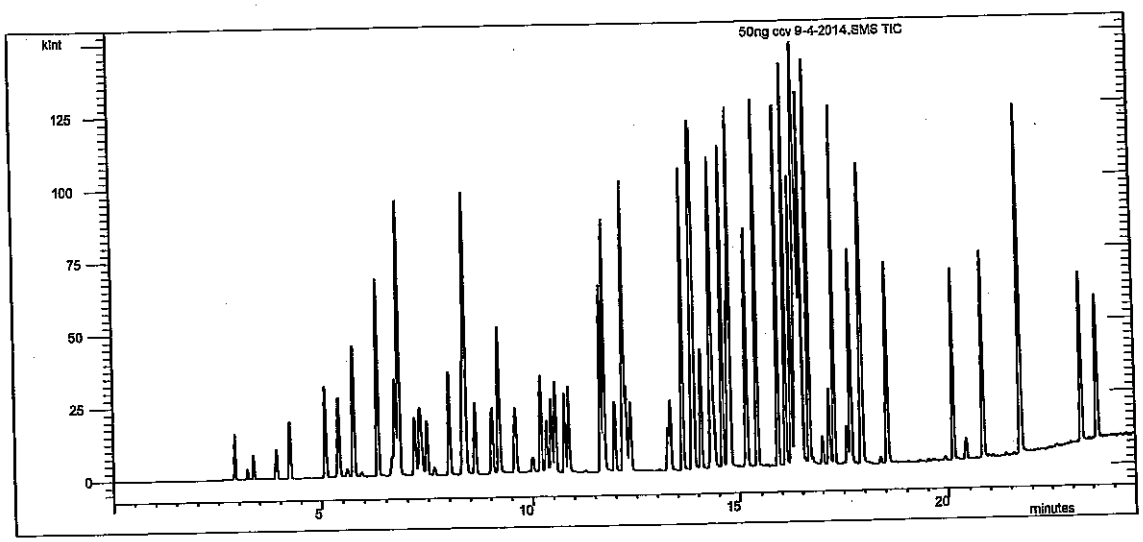
9-5-14

✓ WB 9/8/14

Analyst: djf

8260B/624 Report

Sample Name:	50ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-54-0475	**Acquisition Date:**	9/4/2014 9:46:23 AM
Calculation Date:	9/4/2014 10:10:54 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.004	637	Identified	26171	50.000
Benzene-d5-, chloro-	14.313	1196	Identified	37895	50.000
1,4-Dichlorobenzene-d4	17.915	1515	Identified	21361	50.000
Dichlorodifluoromethane	2.910	185	Identified	44331	62.241
Chloromethane	3.211	211	Identified	8633	36.204
Vinyl chloride	3.359	225	Identified	29448	42.435
Chloroethane	3.898	273	Identified	4547	40.278
Bromomethane	3.913	274	Identified	26294	60.090
Trichlorofluoromethane	4.236	303	Identified	23527	53.923
1,1-Dichloroethene	5.096	379	Identified	34298	55.121
Acetone	5.379	405	Identified	20494	78.916
Carbon disulfide	5.411	407	Identified	56484	114.410
Iodomethane	5.614	425	Identified	6238	41.298
Methyl tert-butyl ether (MTBE)	5.765	438	Identified	67844	103.054
Isopropyl ether	6.322	487	Identified	78821	112.691
tert-Butyl alcohol	6.649	516	Identified	100884	734.638
trans-1,2-DCE	6.725	523	Identified	38647	53.721
tert-Butyl ethyl ether	6.809	531	Identified	157302	114.359
1,1-Dichloroethane	7.185	564	Identified	32980	44.628
Methylene Chloride	7.305	575	Identified	40325	52.996
Vinyl Acetate	7.360	580	Identified	83941	91.753
2,2-Dichloropropane	7.465	589	Identified	23067	54.719
2-Butanone	7.646	605	Identified	22130	85.127
1,1,1-Trichloroethane	8.319	665	Identified	39638	51.199

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.376	670	Identified	73499	102.230
1,1-Dichloropropene	8.392	671	Identified	18129	51.944
Carbon Tetrachloride	8.623	692	Identified	85098	52.751
cis-1,2-DCE	9.040	729	Identified	53638	53.432
Benzene	9.199	743	Identified	51401	54.359
Chloroform	9.596	777	Identified	38674	59.968
Bromochloromethane	10.010	814	Identified	14061	61.642
Trichloroethene (TCE)	10.198	831	Identified	38179	60.479
Dibromofluoromethane	10.338	843	Identified	41715	46.305
1,2-Dichloroethane-d4	10.452	854	Identified	114958	48.098
1,2-Dichloroethane (EDC)	10.545	862	Identified	45401	53.320
1,2-Dichloropropane	10.775	882	Identified	50404	53.192
4-Methyl-2-pentanone	10.872	891	Identified	104864	107.851
Toluene-d8	11.640	959	Identified	69253	46.696
Toluene	11.720	966	Identified	109269	54.604
2-Chloroethyl vinyl ether	11.975	989	Identified	71909	94.808
Tetrachloroethene (PCE)	12.182	1007	Identified	52805	55.162
cis-1,3-dichloropropene	12.183	1007	Identified	79926	50.952
2-Hexanone	12.190	1008	Identified	74270	108.097
Bromodichloromethane	12.254	1013	Identified	102501	54.007
Dibromomethane	12.357	1023	Identified	45522	51.687
1,3-Dichloropropane	13.259	1102	Identified	55842	50.428
trans-1,3-dichloropropene	13.319	1108	Identified	29665	50.213
Ethylbenzene	13.617	1134	Identified	118812	53.373
mp-Xylenes	13.866	1156	Identified	216131	105.931
1,1,2-Trichloroethane	14.070	1174	Identified	65908	50.113
Chlorobenzene	14.335	1198	Identified	49898	50.855
1,2-Dibromoethane (EDB)	14.391	1203	Identified	56100	52.370
o-Xylene	14.585	1220	Identified	107847	53.463
1,1,1,2-Tetrachloroethane	14.713	1231	Identified	88128	50.665
Dibromochloromethane	14.745	1234	Identified	52493	53.357
Isopropylbenzene	14.775	1237	Identified	100637	50.965
Styrene	15.169	1272	Identified	48092	50.267
n-Propylbenzene	15.411	1293	Identified	138606	52.950
1,3,5-Trimethylbenzene	15.902	1337	Identified	97628	51.451
tert-Butylbenzene	16.098	1354	Identified	103129	49.198
2-Chlorotoluene	16.244	1367	Identified	31398	46.973
4-Bromofluorobenzene	16.341	1376	Identified	39065	44.867
sec-Butylbenzene	16.373	1378	Identified	60630	41.776
4-Chlorotoluene	16.408	1382	Identified	32826	47.420
Bromobenzene	16.449	1385	Identified	31271	53.981
1,2,4-Trimethylbenzene	16.500	1390	Identified	98899	49.395
4-Isopropyltoluene	16.661	1404	Identified	101523	48.641
Bromoform	16.990	1433	Identified	34338	46.967
1,2,3-Trichloropropane	17.161	1448	Identified	25766	44.702
n-Butylbenzene	17.289	1460	Identified	101361	51.935
1,1,2,2-Tetrachloroethane	17.583	1486	Identified	42919	55.061
1,3-Dichlorobenzene	17.668	1493	Identified	45278	50.665
1,4-Dichlorobenzene	17.940	1517	Identified	42567	49.281
1,2-Dichlorobenzene	18.547	1571	Identified	42510	48.999

Inj. Notes: v-54-0475

50ng ccv 9-4-2014.SMS
9/4/2014 10:11

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.131	1711	Identified	89854	43.298
1,2-Dibromo-3-chloropropane	20.420	1737	Identified	16955	50.992
1,2,4-Trichlorobenzene	20.829	1773	Identified	32269	48.077
1,2,3-Trichlorobenzene	21.732	1854	Identified	33247	48.989
Naphthalene	21.740	1855	Identified	61501	47.036
2-Methylnaphthalene	23.227	1990	Identified	48767	50.825
1-Methylnaphthalene	23.611	2024	Identified	46858	50.397

****
Revision Log
****

9/4/2014 10:10 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

an Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

leList: C:\VarianWS\070614v.smp

ted: Sun Jul 06 15:00:06 2014
fied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: M 7-6-14
1st Review By: M 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: 7-7-14

QA: NB7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: and .

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

RT 7-7-14

DB DB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RAA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

RT 7-7-14

JB 7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

JB 7/8/14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7.7.14

✓ NB 7/8/14

Analyst: RAA

Print Date: 07 Jul 2014 07:58:26

alibration Curves Report

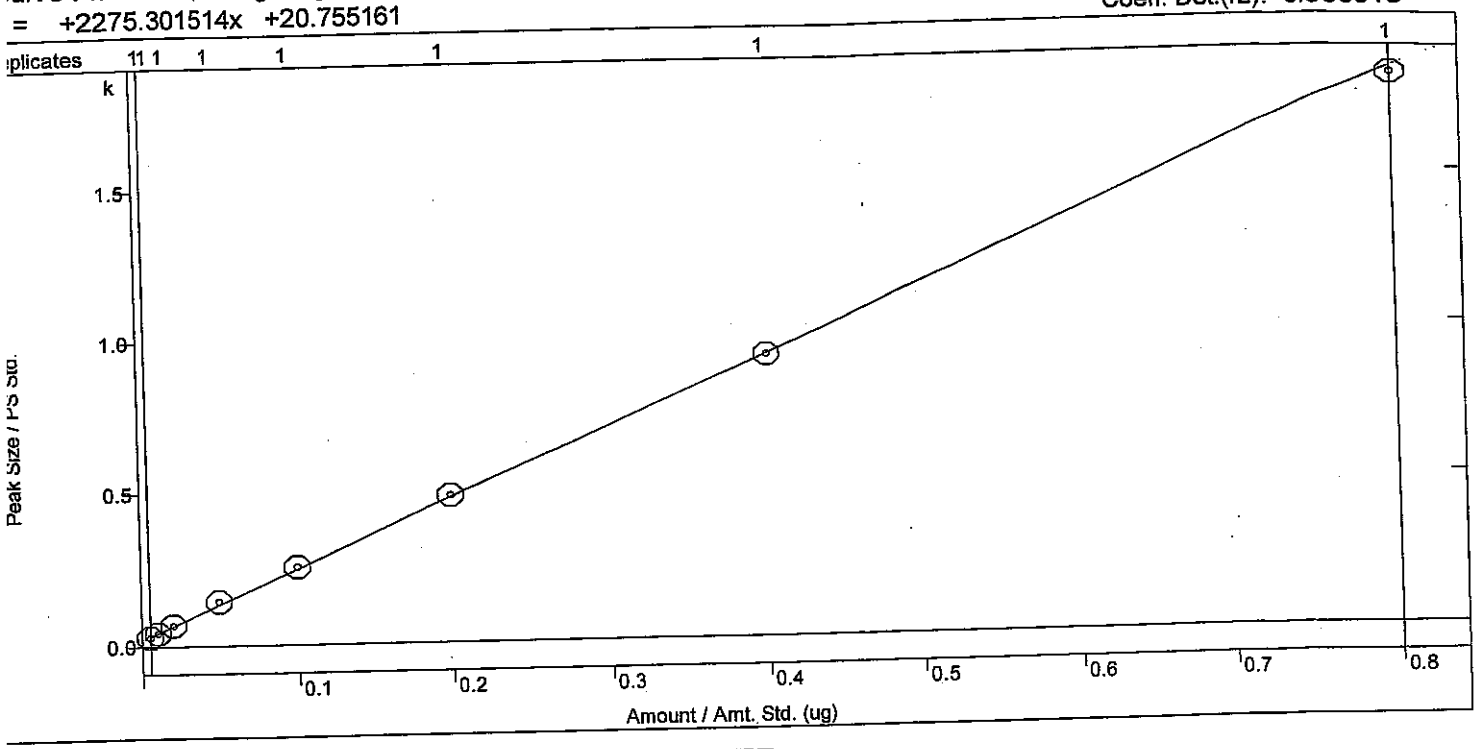
AK 7-7-14

ethod:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
calc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
ample List:	N/A	Detector:	2000 Mass Spec
equence:	N/A	Workstation Version:	Version 6.9
S Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
eak Measurement:	Area		

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

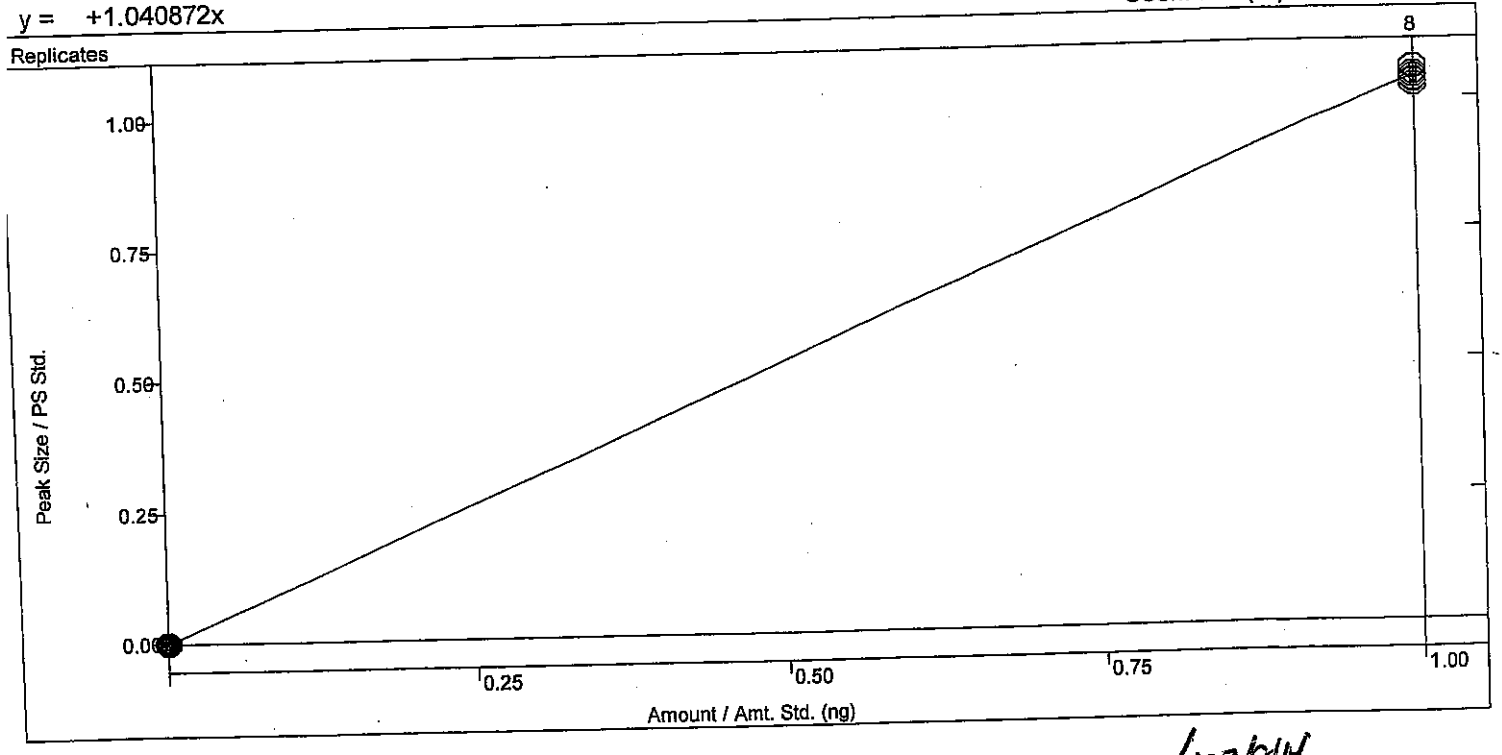
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWS 7/8/14

sList: C:\varianws\080114v.smp

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none tune @ 7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By: KSH 8/4/14
QA'd By:

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: Va | **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pQL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pQL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	UQL: 22.627ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

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KJH 8/4/14

8/4/2014 9:03

Analyst: KJH

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH
8/4/14

8.4.14

Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

1 of 1 8.4.14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 8/1/2014 8/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 22:52 22:52

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

Analyst: KJH

KJH
JA 8-4-14 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

JAF 9.4.14 KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

8.4.14

8/4/2014 9:03

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

1 - hits on different crv.

8/4/14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* Indicates Internal Standard.

KJH 8/4/14

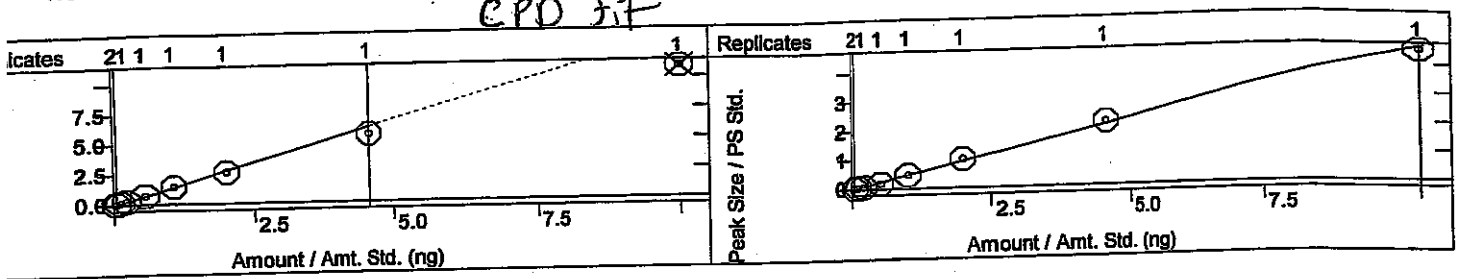
Analyst: KJH

hod:	c:\varianws\methods\080714v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
= +1.3682x -0.0093

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

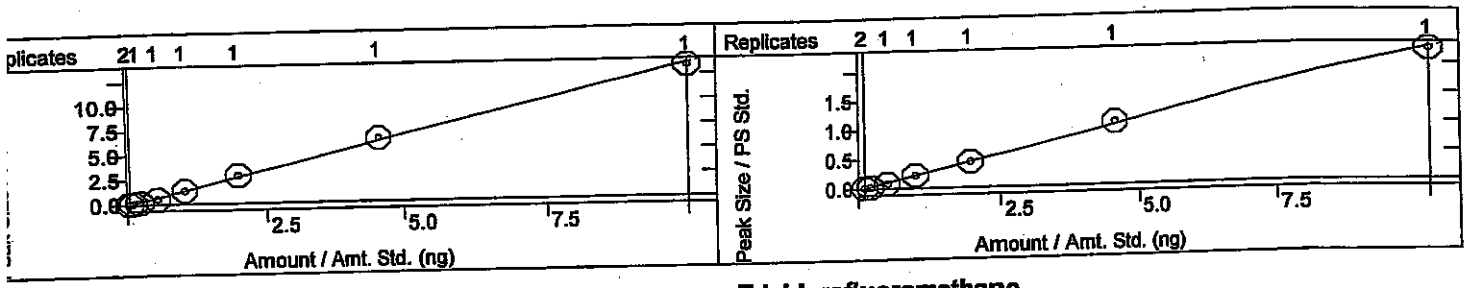
CPD fit



nyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

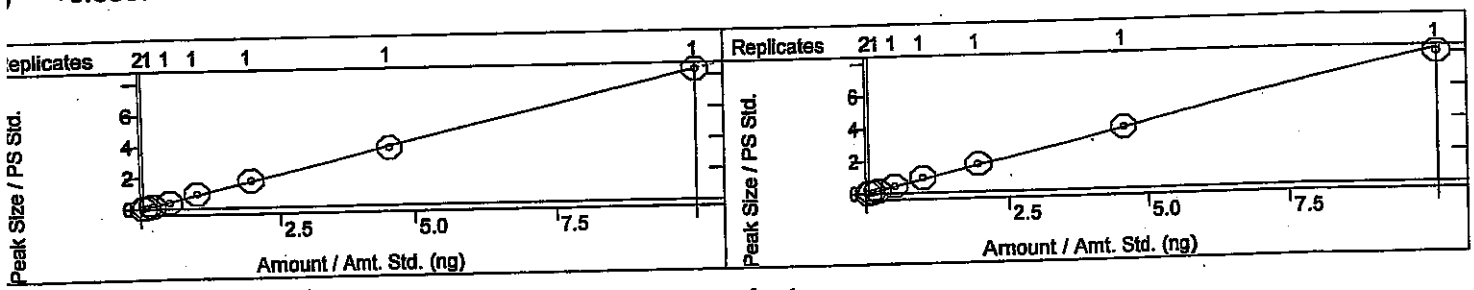
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD fit



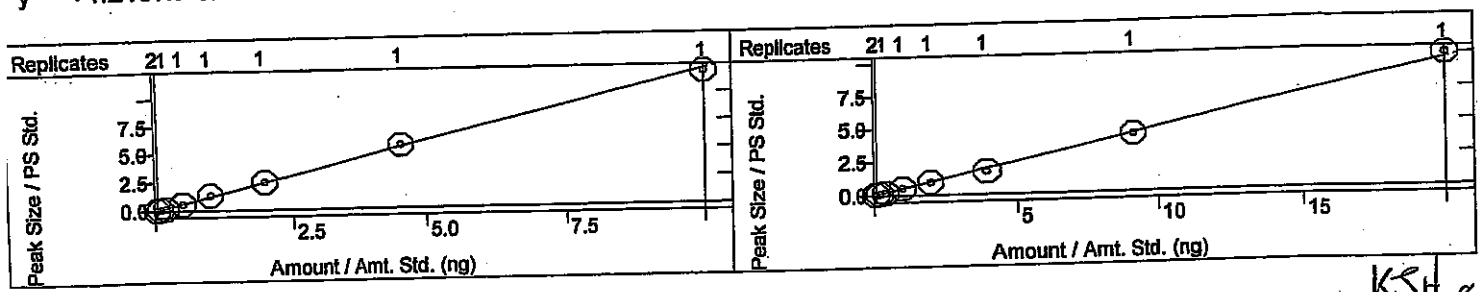
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



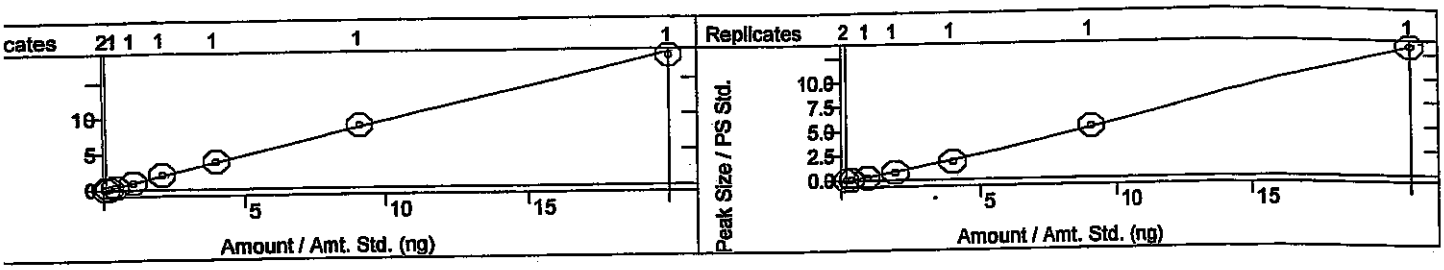
KSH 8/4/14

nod:	C:\Varian\ws\methods\8011 4v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
sp. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

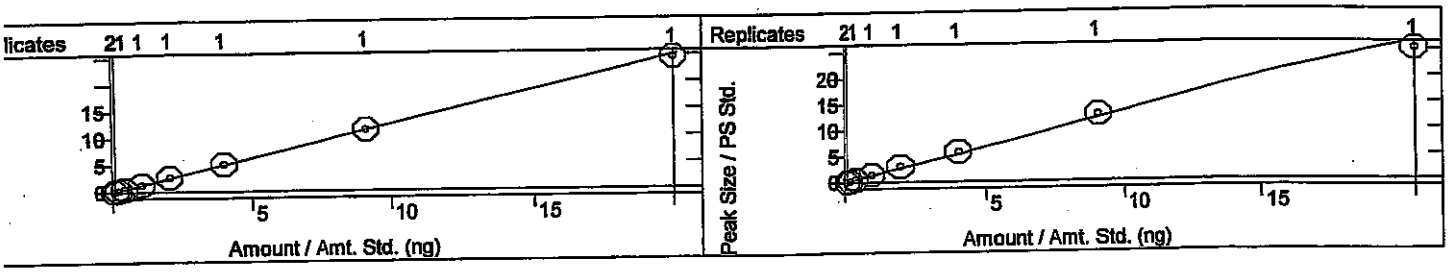
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

CPD fit



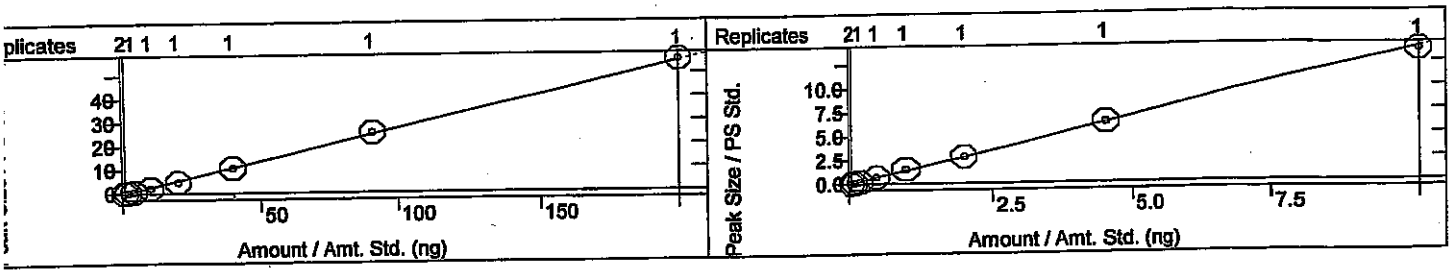
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
= +1.2503x +0.0152

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



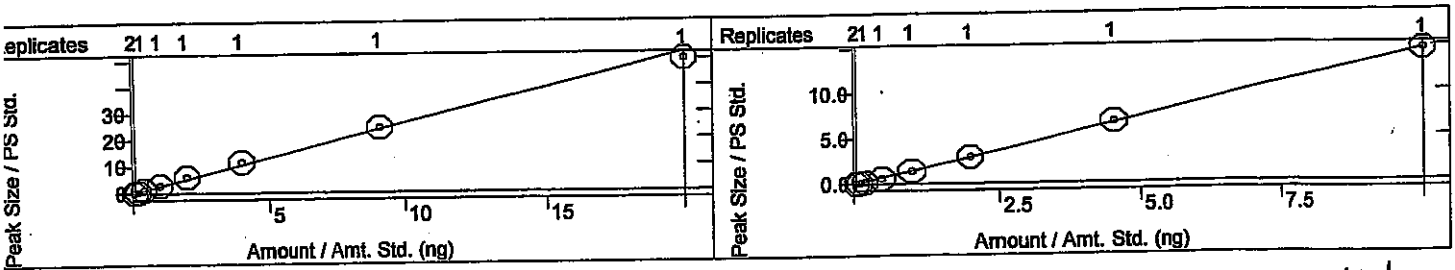
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155

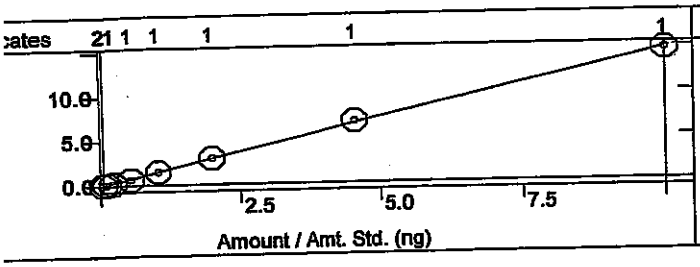
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



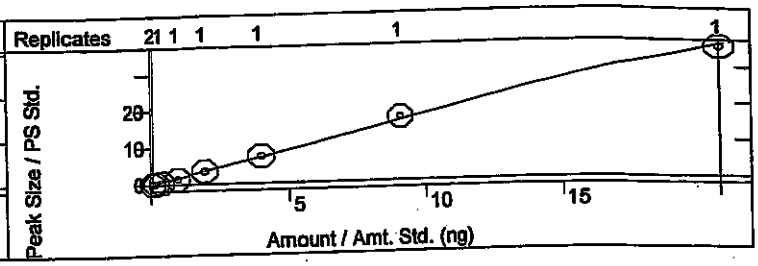
KSH 8/4/14

iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
x Measurement:	Area	Calibration Type:	Internal Standard Analysis

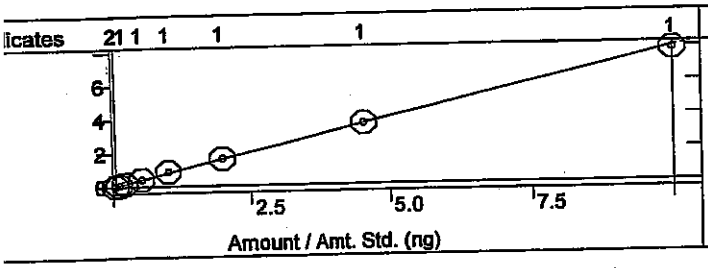
hylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278



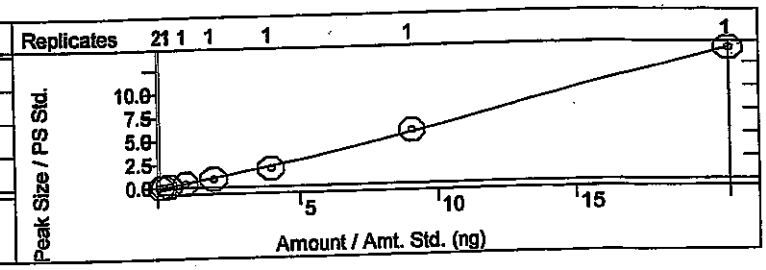
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



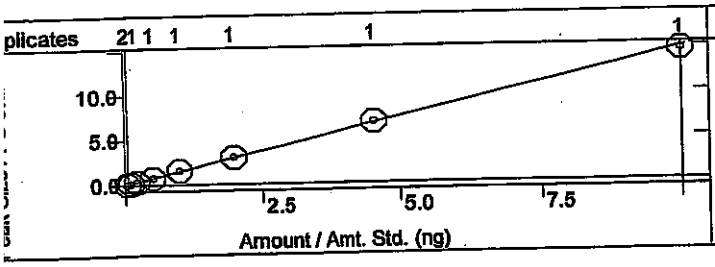
-Dichloropropane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
+0.7967x +0.0095



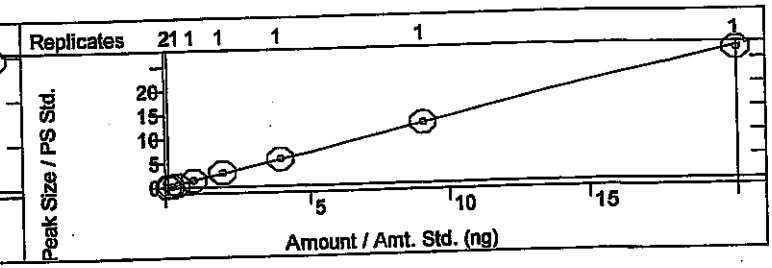
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



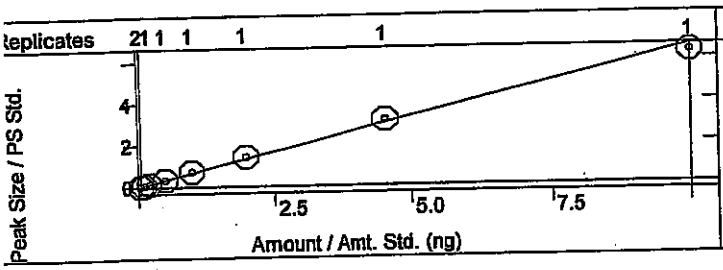
1,1-Trichloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066



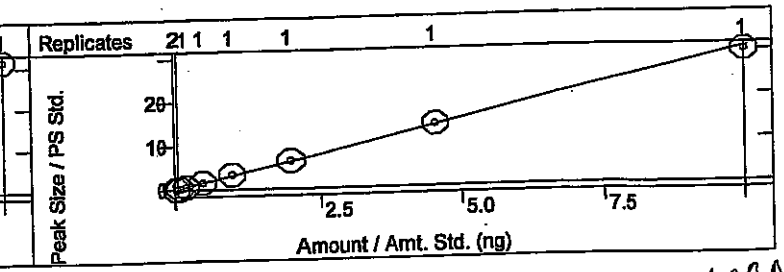
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



l,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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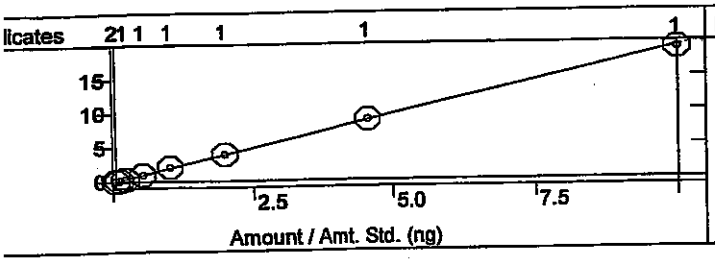
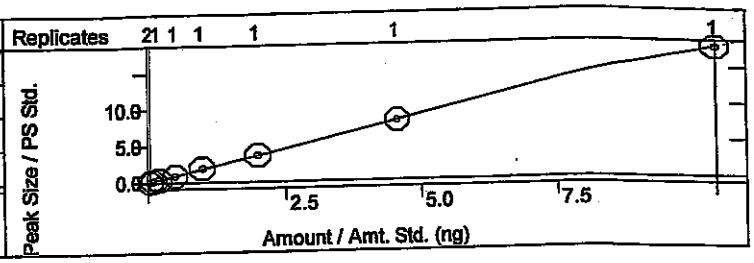
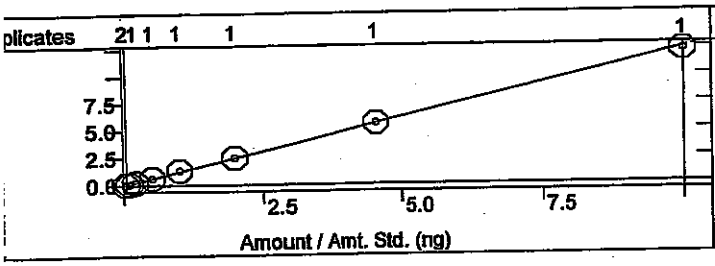
-1,2-DCE
irve Fit: Linear, Origin: Ignore, Weight: 1/X
isp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
= +1.9390x -0.0226



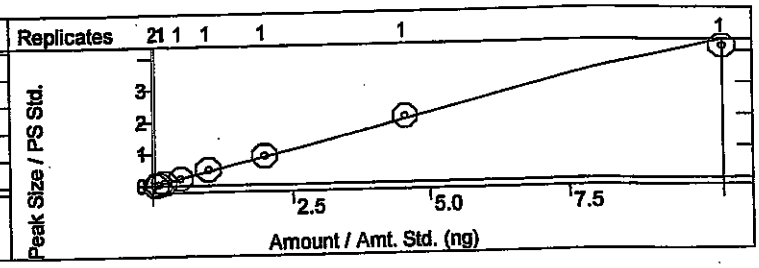
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



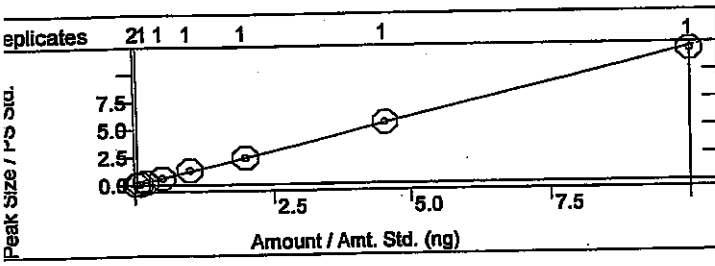
hloroform
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
= +1.2389x -0.0082



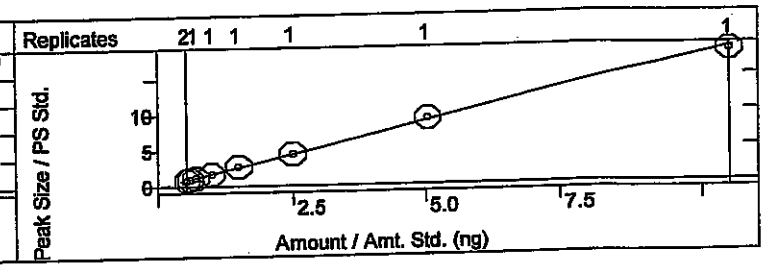
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



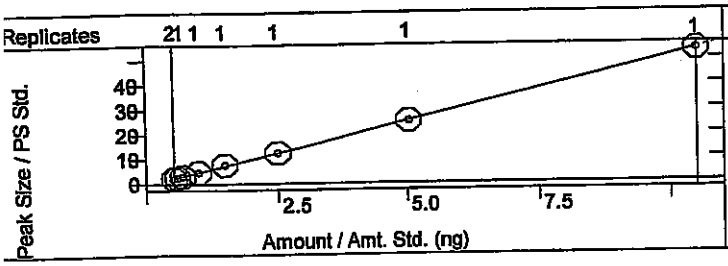
richloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
r = +1.2032x +0.0034



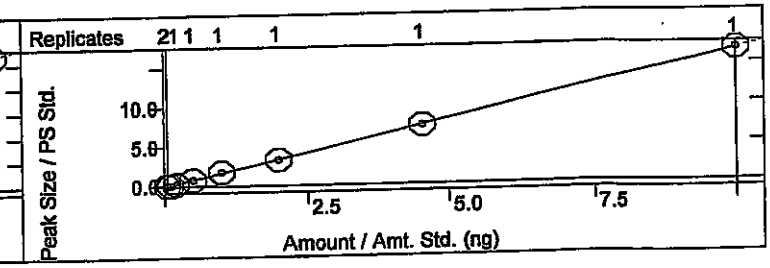
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



hod:	c:\varianws\methods\0601 14v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ık Measurement:	Area		

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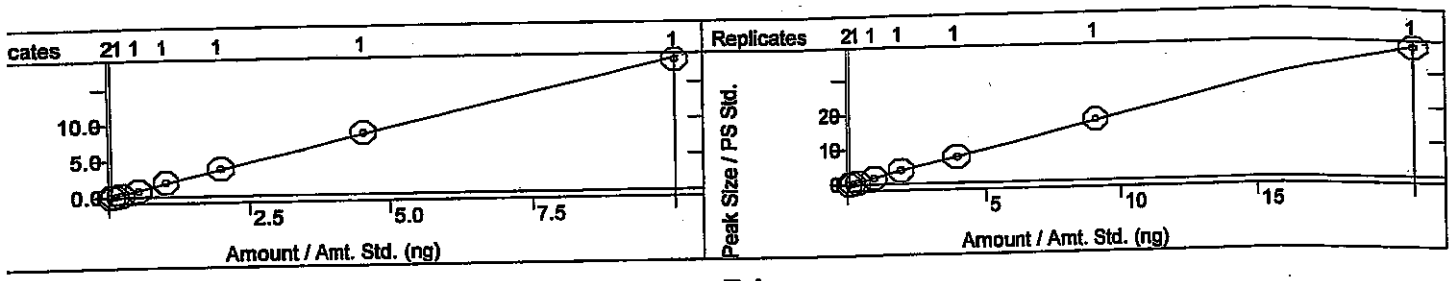
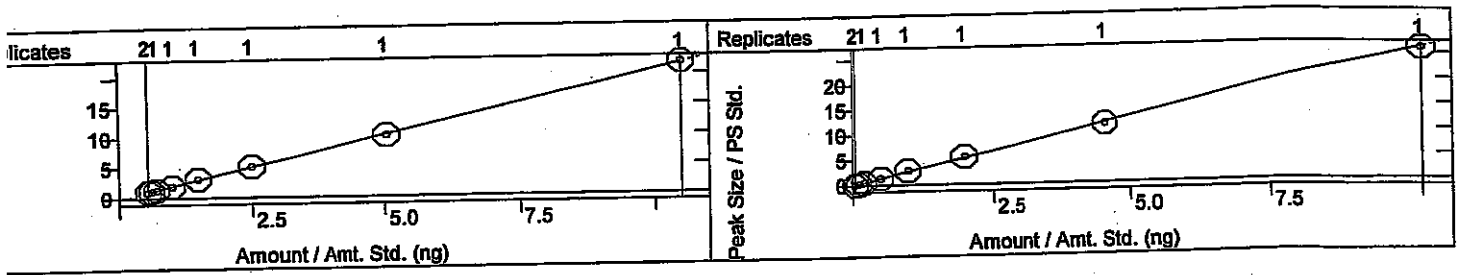
-Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



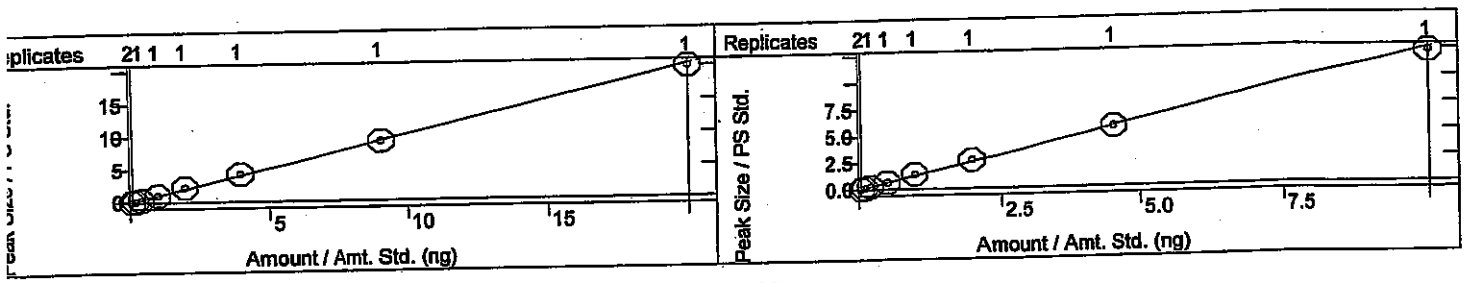
luene-d8
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
= +2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



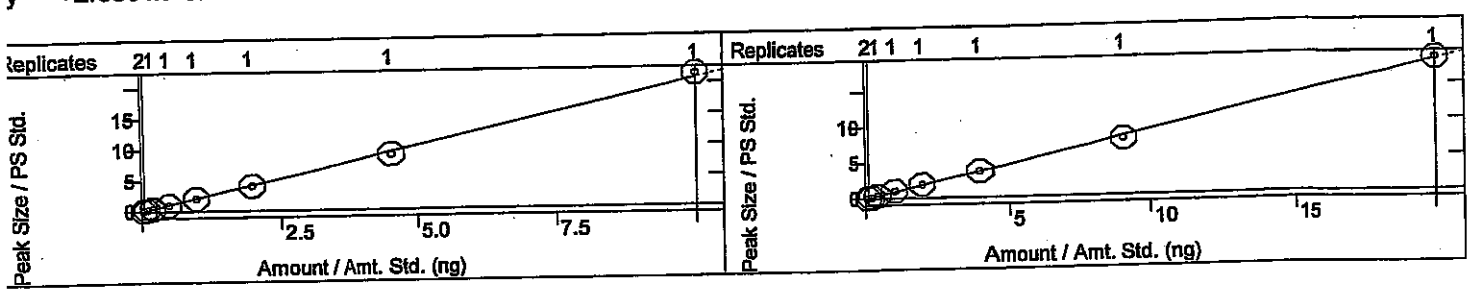
-Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199

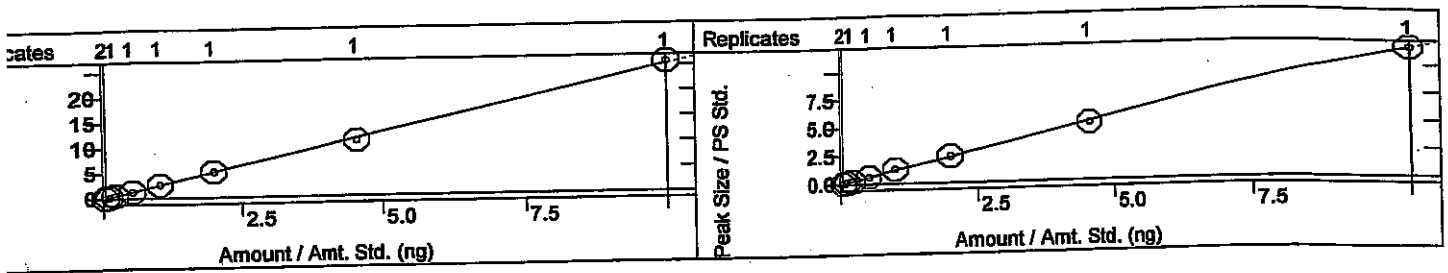


iod:	c:\varianws\methods\8011+v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
iple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
k Measurement:	Area		

KSH 8/4/14

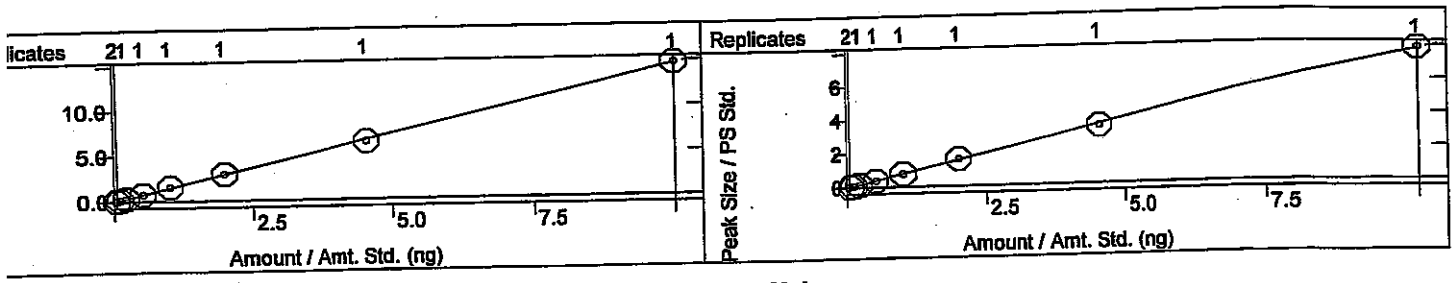
modichloromethane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ip. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



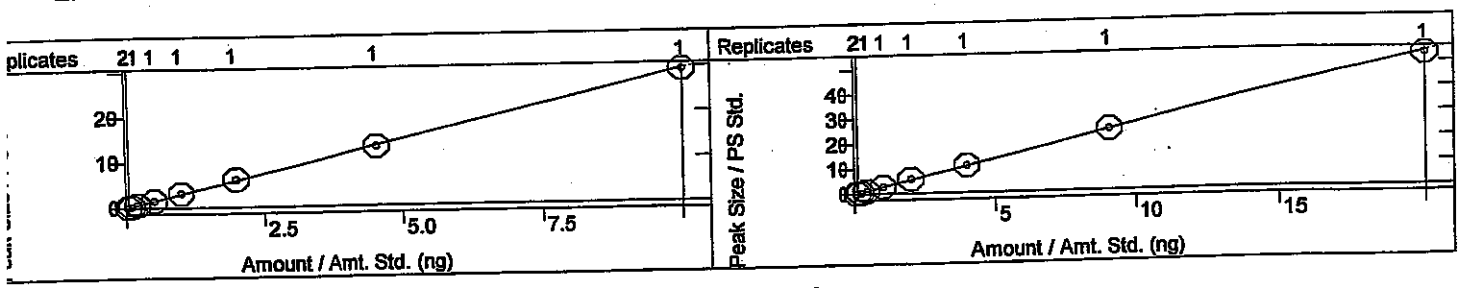
-Dichloropropane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
: +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



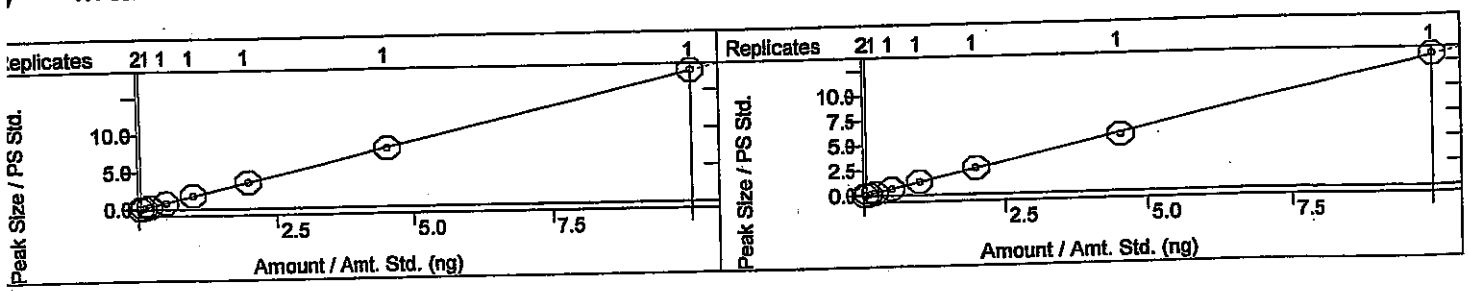
thylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



l,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051

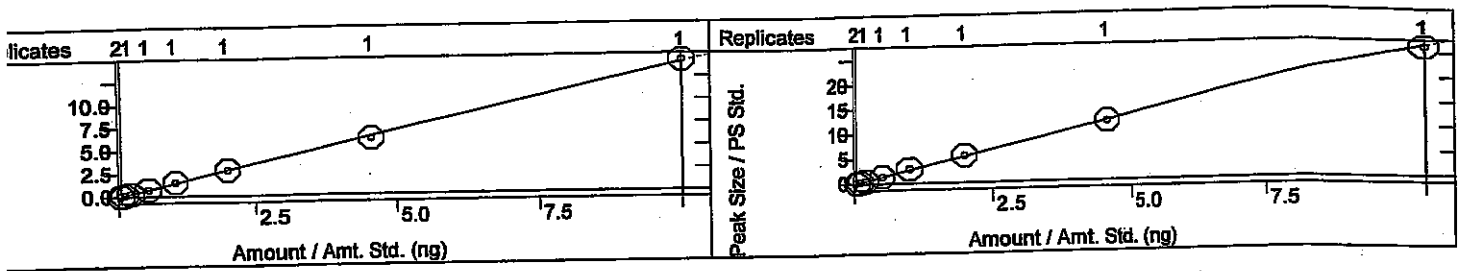


thod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
calc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

KSH 8/4/14

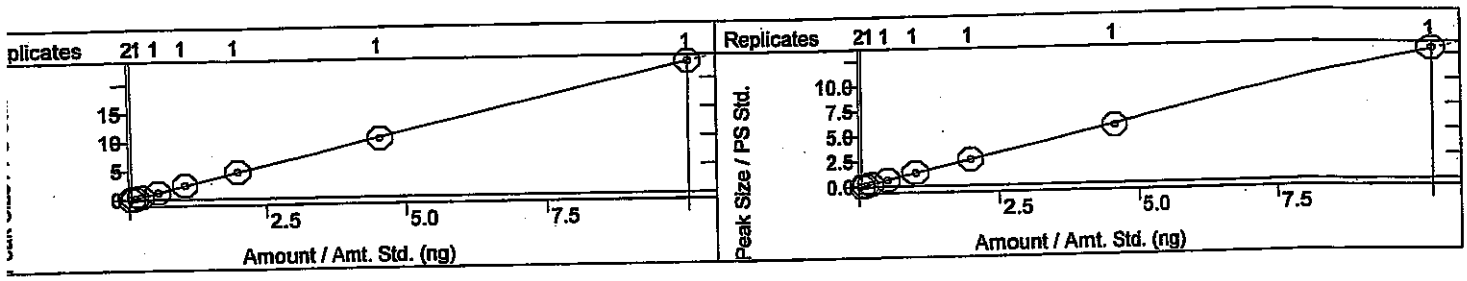
2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
y = +1.4074x +0.0063

o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



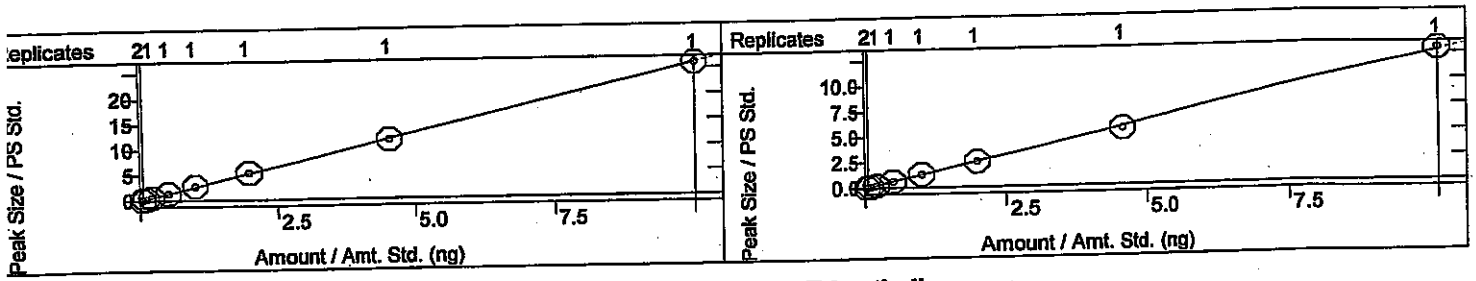
1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
y = +2.2967x -0.0016

Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



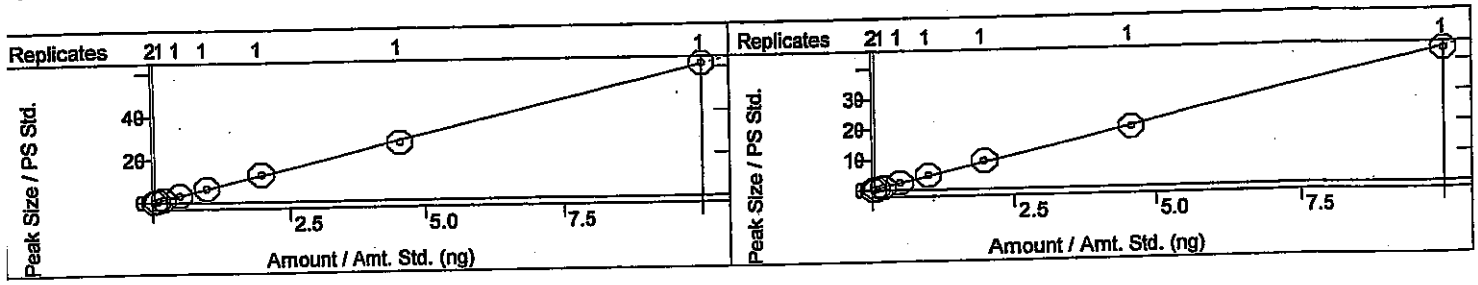
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035

Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

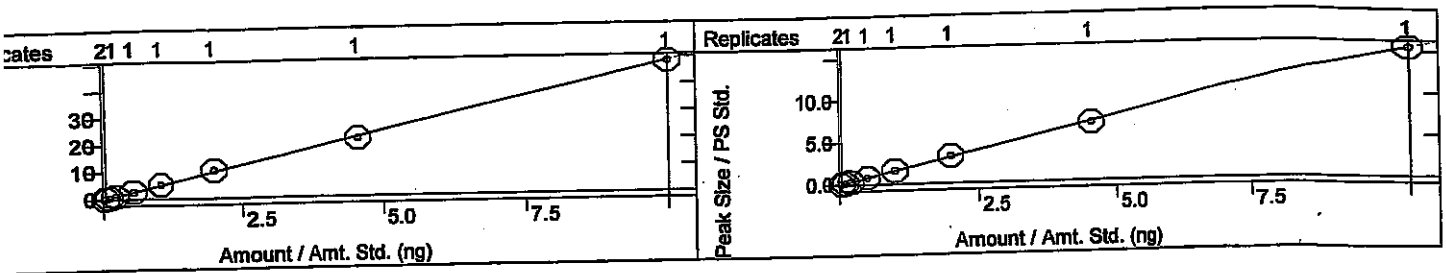


iod:	c:\varianws\methods\0801 14v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
iple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
k Measurement:	Area		

KSH 8/4/14

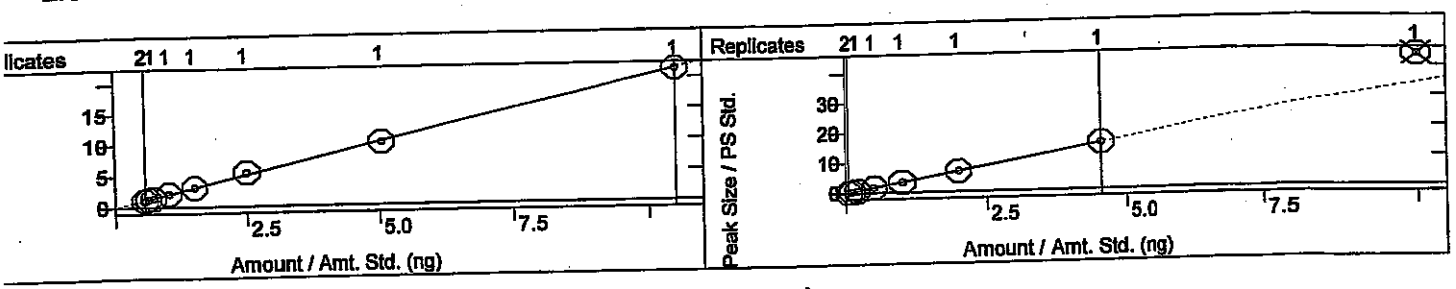
-Butylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ip. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



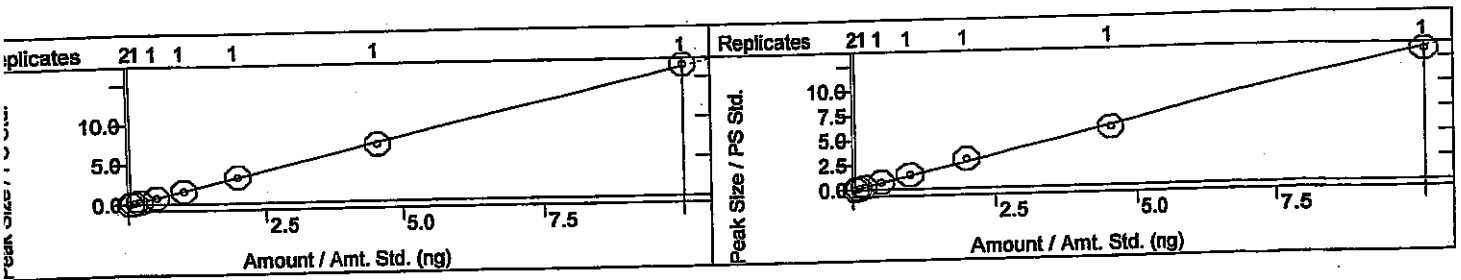
Bromofluorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
: +2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



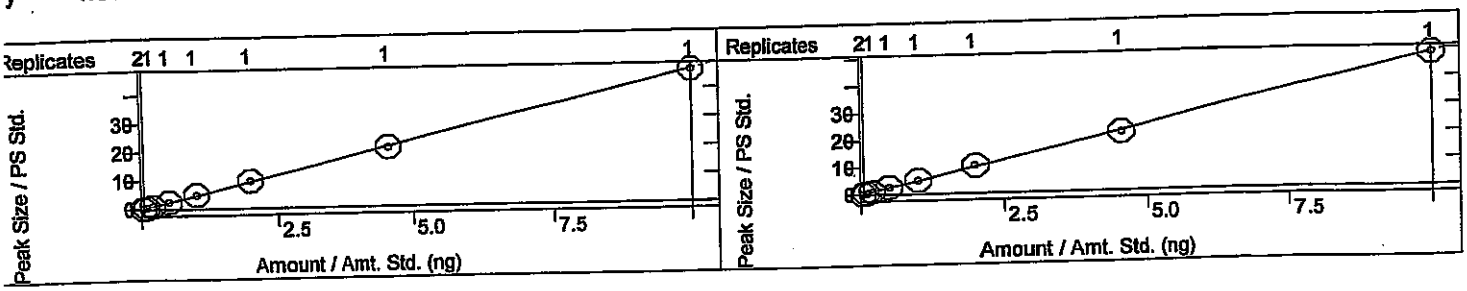
-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045

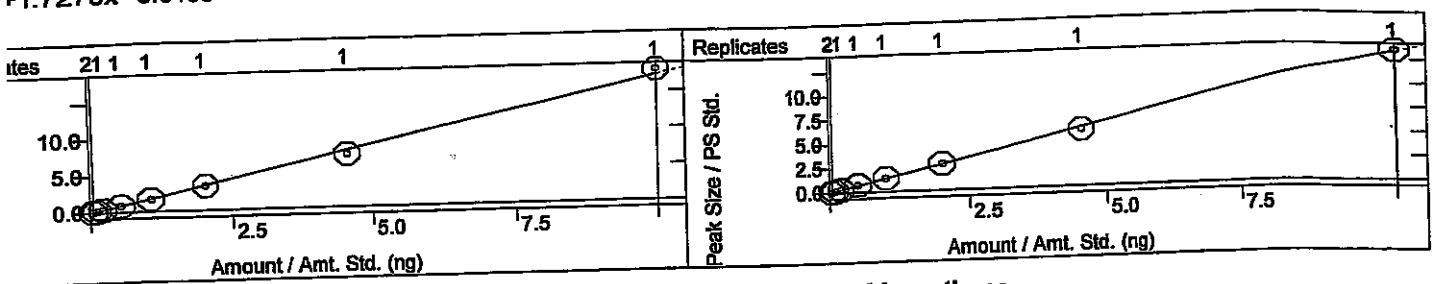


id:	c:\varianws\methods\080114v 8260,624.mth		
c Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
le List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
/orkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/21/14

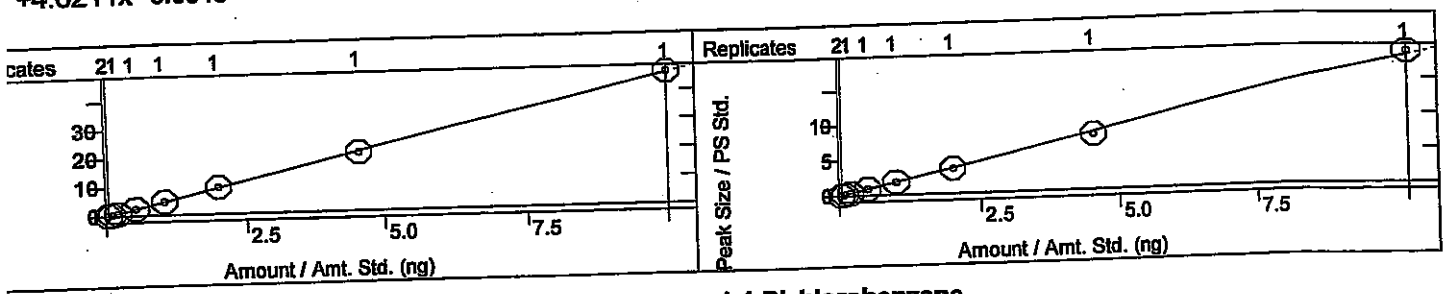
oform
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



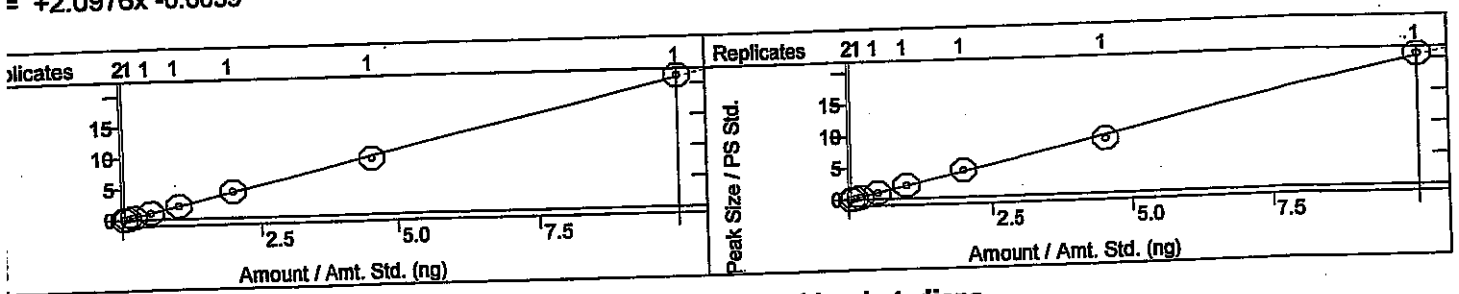
utylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
ip. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



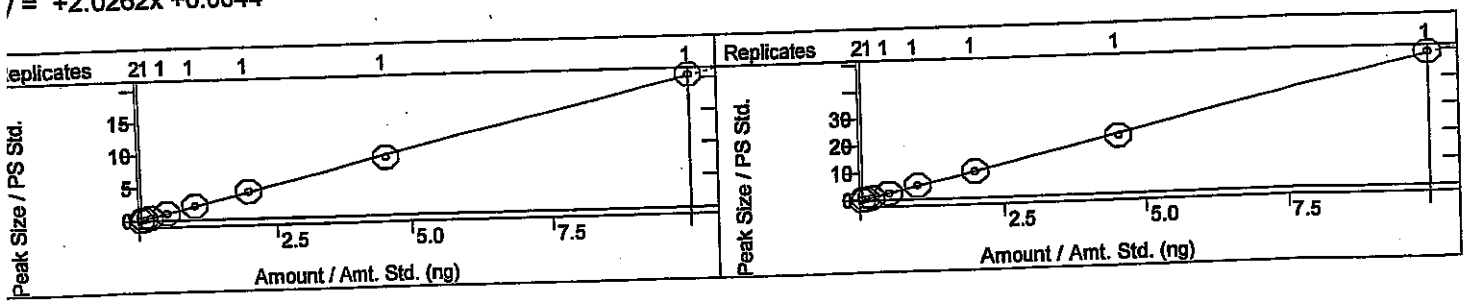
-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
/ = +2.0262x +0.0044

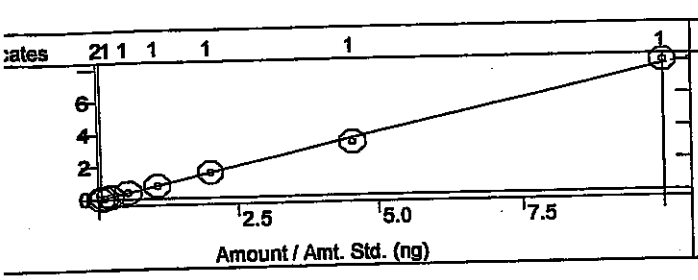
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4



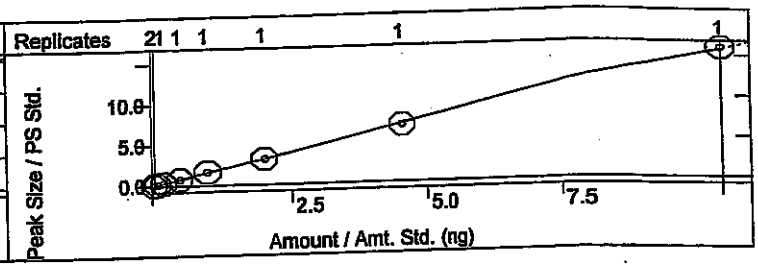
od:	c:\varianws\methods\080714v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ılc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ple List:	N/A	Detector:	2000 Mass Spec
ıence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
‹ Measurement:	Area		

KSH 8/14/14

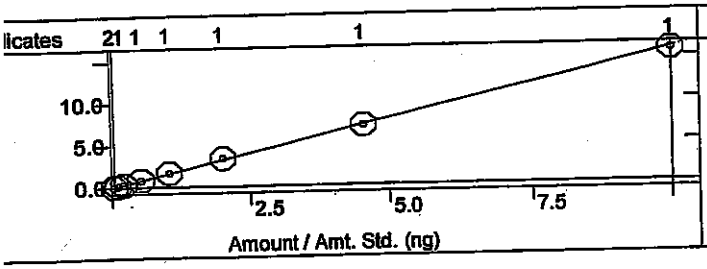
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4



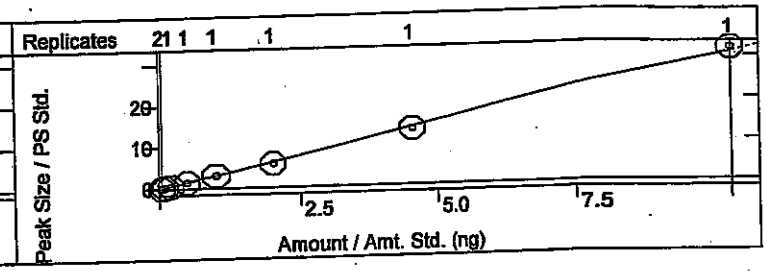
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



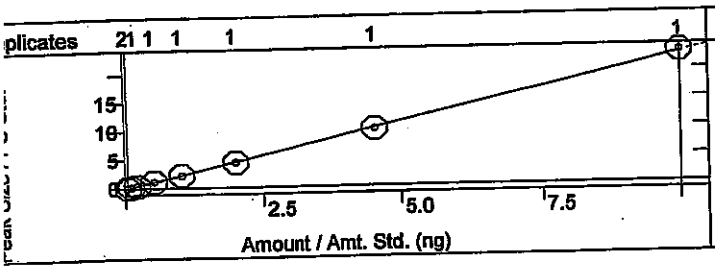
,3-Trichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
: +1.5947x -0.0060



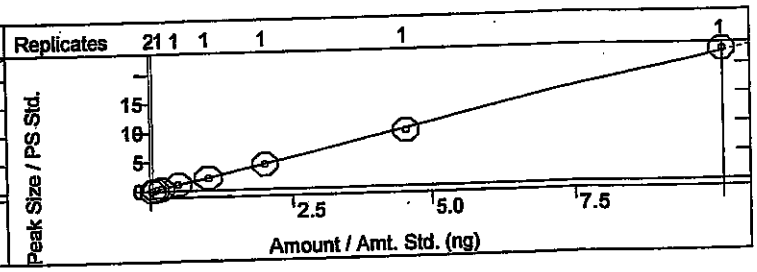
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

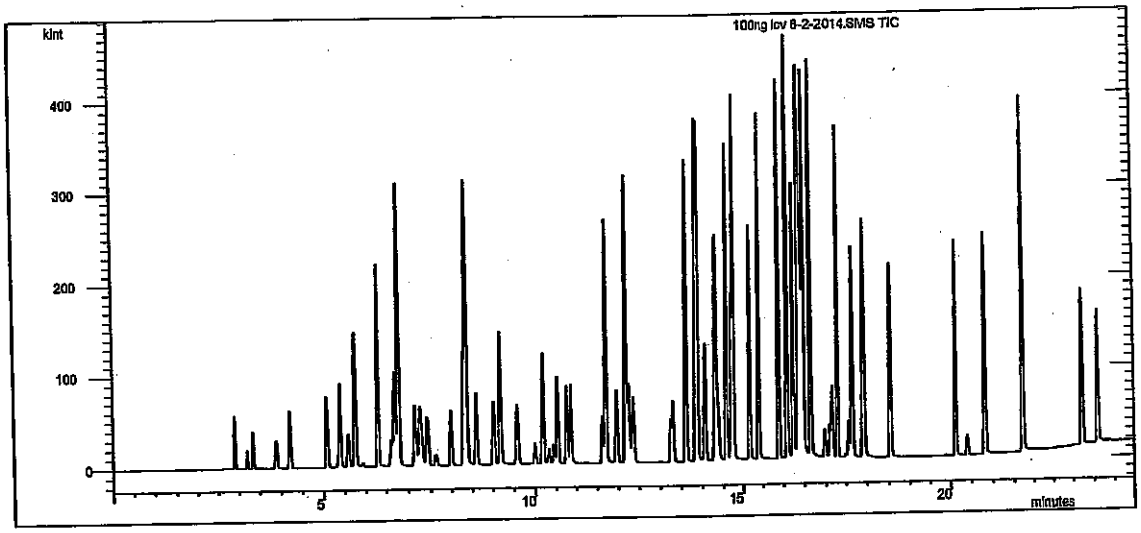


1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Operator: Rene Agullera Inj. Notes: V-54-0446 100ng icv 8-2-2014.SMS

8/4/2014 8:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

****

neric SampleList Printout - Fri Sep 05 07:49:38 2014

mpleList: C:\AgilentWS\090414m.smp

eated: Thu Sep 04 08:23:45 2014
dified: Thu Sep 04 17:56:51 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	b3	none
4	mb-15112	none @10:13
5	5ppb 5035 ccv	below @10:42
	Notes V-54-0478	
6	lcs-15112	below
	Notes V-11-8073	
7	b4	none
8	1409046-001a	below
	Notes x1 low level soil pb15112	
9	1409046-001ams	below
	Notes x1 low level soil pb15112 V-11-8073	
10	1409046-001amsd	below
	Notes x1 low level soil pb15112 V-11-8073	
11	1409046-002a	below
	Notes x1 low level soil pb15112	
12	1409046-004a	below
	Notes x1 low level soil pb15112	
13	b5	none
14	1409046-005a	below
	Notes x1 low level soil pb15112	
15	b6	none
16	1409136-001a	below
	Notes x1 low level soil pb15112 @ 4:30	
17	b7	none
18	b8	none
19		

hand calc

Loaded By: CGG 9-4-14
1st Review By: CGG 9-6-14
QA'd By: 9-8-14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090414m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): is\data\2014\0914m\090414m\5ppb 5035 ccv 9-4-2014.SMS Lab Sample ID: 5ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 9/4/2014 Time Analyzed: 10:42

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	65197	7.09	92703	13.40	37506	16.98						
UPPER LIMIT	130394	7.59	185406	13.90	75012	17.48						
LOWER LIMIT	32599	6.59	46352	12.90	18753	16.48						
EPA SAMPLE NO												
b1 9-4-201	63306	7.08	86417	13.39	25102	16.98						
b2 9-4-201	59577	7.09	86895	13.40	27241	16.98						
b3 9-4-201	73332	7.09	102463	13.40	31463	16.98						
mb-15112 9	59678	7.09	87892	13.40	27903	16.98						
lcs-15112	72660	7.09	103992	13.40	33858	16.98						
b4 9-4-201	76455	7.08	105646	13.40	34745	16.98						
1409046-00	47372	7.09	68748	13.40	25240	16.98						
1409046-00	68448	7.09	104172	13.40	40381	16.98						
1409046-00	71967	7.09	111049	13.40	38905	16.98						
1409046-00	46052	7.09	65878	13.40	25037	16.98						
1409046-00	35208	7.09	50611	13.40	20203	16.98						
b5 9-4-201	67394	7.09	98821	13.40	34974	16.99						
1409046-00	48367	7.09	68589	13.40	28169	16.99						
b6 9-4-201	69812	7.09	100981	13.40	35248	16.98						
1409136-00	39624	7.09	58726	13.40	21110	16.99						
b7 9-4-201	77255	7.09	115219	13.40	39481	16.98						

09-5-14

√ 9-9-14

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
b8 9-4-201	75390	7.09	110628	13.40	39005	16.98						

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

cadg 9-5-14

Jag 9.9.14

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 9/4/2014 Time: 10:42

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/3/2014 9/3/2014

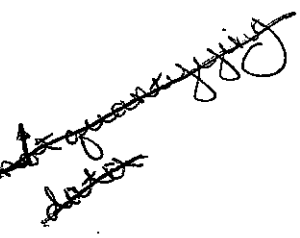
GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Lab File ID: c:\agilentws\data\5ppb 5035 ccv 9-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.417	0.100	5.00	5.33	-6.6	30.0	PASS	PASS
Chloromethane	13.309	0.100	5.00	5.38	-7.5	30.0	PASS	PASS
Vinyl chloride	14.872	0.100	5.00	5.48	-9.6	20.0	PASS	PASS
Chloroethane	2.474	0.100	5.00	5.20	-4.0	30.0	PASS	PASS
Bromomethane	1.562	0.100	5.00	3.98	20.5	30.0	PASS	PASS
Trichlorofluoromethane	3.413	0.100	5.00	4.87	2.5	30.0	PASS	PASS
1,1-Dichloroethene	8.025	0.100	5.00	4.93	1.4	20.0	PASS	PASS
Acetone	2.722	0.100	10.00	8.31	16.9	40.0	PASS	PASS
Carbon disulfide	6.607	0.100	10.00	11.20	-12.0	40.0	PASS	PASS
Iodomethane	3.463	0.100	10.00	5.53	44.7	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	7.589	0.100	10.00	11.24	-12.4	30.0	PASS	PASS
Isopropyl ether	35.494	0.100	10.00	11.66	-16.6	40.0	PASS	PASS
tert-Butyl alcohol	0.736	0.100	100.00	76.83	23.2	40.0	PASS	PASS
trans-1,2-DCE	15.250	0.100	5.00	5.22	-4.4	30.0	PASS	PASS
tert-Butyl ethyl ether	120.110	0.100	10.00	11.57	-15.7	40.0	PASS	PASS
Methylene Chloride	17.765	0.100	5.00	8.09	-61.9	30.0	FAIL	PASS
1,1-Dichloroethane	4.148	0.100	5.00	3.85	23.0	30.0	PASS	PASS
Vinyl acetate	16.402	0.100	10.00	13.09	-30.9	40.0	PASS	PASS
2,2-Dichloropropane	3.425	0.100	5.00	5.93	-18.7	30.0	PASS	PASS
2-Butanone	6.825	0.100	10.00	10.38	-3.8	40.0	PASS	PASS
1,1,1-Trichloroethane	5.463	0.100	5.00	5.11	-2.3	30.0	PASS	PASS
1,1-Dichloropropene	7.915	0.100	5.00	4.86	2.7	30.0	PASS	PASS
tert-Amyl methyl ether	32.493	0.100	10.00	10.97	-9.7	40.0	PASS	PASS
Carbon Tetrachloride	2.559	0.100	5.00	5.02	-0.3	30.0	PASS	PASS
cis-1,2-DCE	2.923	0.100	5.00	5.08	-1.7	30.0	PASS	PASS
Benzene	10.460	0.100	5.00	5.09	-1.9	30.0	PASS	PASS
Chloroform	5.453	0.100	5.00	4.94	1.2	20.0	PASS	PASS
Bromochloromethane	4.652	0.100	5.00	5.95	-19.1	30.0	PASS	PASS
Trichloroethene (TCE)	17.592	0.100	5.00	5.32	-6.3	30.0	PASS	PASS
Dibromofluoromethane	3.153	0.100	20.00	20.25	-1.2	30.0	PASS	PASS
1,2-Dichloroethane-d4	11.941	0.100	20.00	19.45	2.7	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	71.315	0.100	5.00	5.29	-5.8	30.0	PASS	PASS
1,2-Dichloropropane	21.701	0.100	5.00	5.31	-6.1	20.0	PASS	PASS
4-Methyl-2-pentanone	4.777	0.100	10.00	9.92	0.8	40.0	PASS	PASS
Toluene-d8	1.859	0.100	20.00	20.44	-2.2	30.0	PASS	PASS



9-5-14

All samples ND for DCM

JA 9-9-14

Analyst: cadg

Compound	RRF	MinRRF	CI	Cc	% D	Max %D	CCC	SPCC
Toluene	11.158	0.100	5.00	5.47	-9.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	5.670	0.100	10.00	10.03	-0.3	40.0	PASS	PASS
cis-1,3-dichloropropene	16.822	0.100	5.00	5.21	-4.1	30.0	PASS	PASS
Bromodichloromethane	3.244	0.100	5.00	5.37	-7.3	30.0	PASS	PASS
2-Hexanone	11.578	0.100	10.00	9.46	5.4	40.0	PASS	PASS
Tetrachloroethene (PCE)	3.198	0.100	5.00	5.34	-6.8	30.0	PASS	PASS
Dibromomethane	5.778	0.100	5.00	5.47	-9.5	30.0	PASS	PASS
1,3-Dichloropropane	6.263	0.100	5.00	5.48	-9.6	30.0	PASS	PASS
trans-1,3-dichloropropene	3.292	0.100	5.00	5.39	-7.9	30.0	PASS	PASS
Ethylbenzene	13.368	0.100	5.00	5.60	-12.0	20.0	PASS	PASS
mp-Xylenes	11.610	0.100	10.00	11.15	-11.5	30.0	PASS	PASS
1,1,2-Trichloroethane	7.223	0.100	5.00	5.90	-18.0	30.0	PASS	PASS
Chlorobenzene	5.916	0.300	5.00	5.52	-10.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.853	0.100	5.00	5.08	-1.7	30.0	PASS	PASS
o-Xylene	12.315	0.100	5.00	5.74	-14.7	30.0	PASS	PASS
Dibromochloromethane	1.721	0.100	5.00	5.84	-16.8	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.955	0.100	5.00	6.03	-20.5	30.0	PASS	PASS
Isopropylbenzene	12.574	0.100	5.00	5.72	-14.3	30.0	PASS	PASS
Styrene	5.752	0.100	5.00	5.43	-8.6	30.0	PASS	PASS
n-Propylbenzene	39.890	0.100	5.00	5.15	-3.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	28.017	0.100	5.00	5.06	-1.3	30.0	PASS	PASS
tert-Butylbenzene	34.274	0.100	5.00	5.04	-0.8	30.0	PASS	PASS
2-Chlorotoluene	9.897	0.100	5.00	5.18	-3.5	30.0	PASS	PASS
4-Bromofluorobenzene	2.405	0.100	20.00	18.72	6.4	30.0	PASS	PASS
Bromobenzene	44.288	0.100	5.00	5.11	-2.1	30.0	PASS	PASS
4-Chlorotoluene	67.329	0.100	5.00	4.42	11.6	30.0	PASS	PASS
sec-Butylbenzene	42.036	0.100	5.00	4.77	4.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	89.849	0.100	5.00	4.90	1.9	30.0	PASS	PASS
4-Isopropyltoluene	31.321	0.100	5.00	5.09	-1.8	30.0	PASS	PASS
Bromoform	10.065	0.100	5.00	4.81	3.9	30.0	PASS	PASS
1,2,3-Trichloropropane	12.337	0.100	5.00	4.65	7.1	30.0	PASS	PASS
n-Butylbenzene	43.565	0.100	5.00	4.45	11.0	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	38.548	0.300	5.00	4.70	6.0	30.0	PASS	PASS
1,3-Dichlorobenzene	12.289	0.100	5.00	4.98	0.4	30.0	PASS	PASS
1,4-Dichlorobenzene	11.423	0.100	5.00	4.98	0.3	30.0	PASS	PASS
1,2-Dichlorobenzene	11.611	0.100	5.00	4.91	1.8	30.0	PASS	PASS
Hexachlorobutadiene	31.095	0.100	5.00	4.93	1.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	8.222	0.100	5.00	4.13	17.5	30.0	PASS	PASS
1,2,4-Trichlorobenzene	24.795	0.100	5.00	4.11	17.8	30.0	PASS	PASS
Naphthalene	6.445	0.100	5.00	3.55	29.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	20.205	0.100	5.00	3.91	21.7	30.0	PASS	PASS
2-Methylnaphthalene	8.840	0.100	5.00	3.61	27.7	40.0	PASS	PASS
1-Methylnaphthalene	12.575	0.100	5.00	3.61	27.7	40.0	PASS	PASS

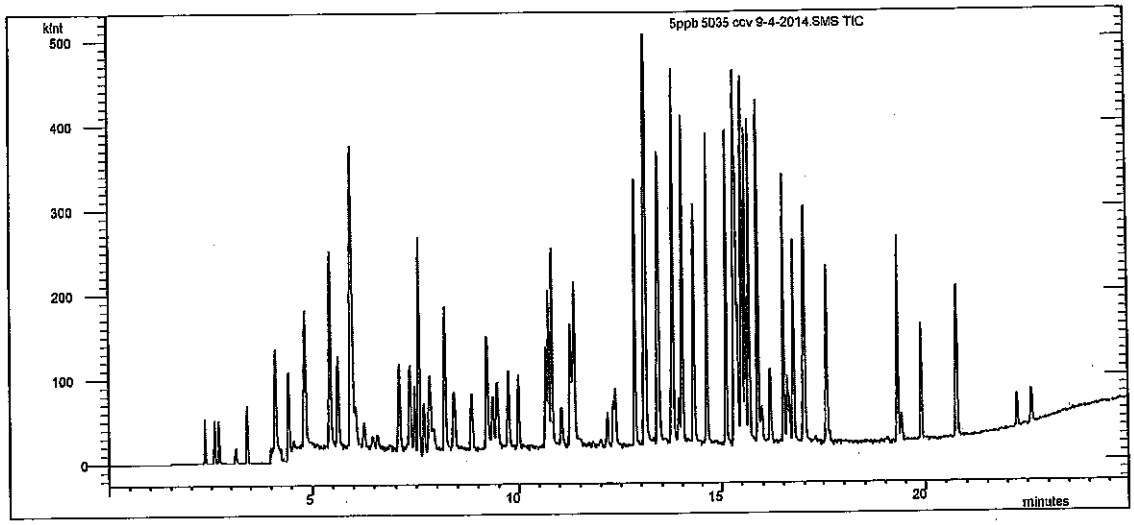
09/5.14

9-9-14

Analyst: cadg

8260B/624 Report

Sample Name:	5ppb 5035 ccv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0478	**Acquisition Date:**	9/4/2014 10:42:06 AM
Calculation Date:	9/4/2014 11:55:36 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.088	697	Identified	65197	20.000
Benzene-d5-, chloro-	13.398	1372	Identified	92703	20.000
1,4-Dichlorobenzene-d4	16.981	1751	Identified	37506	20.000
Dichlorodifluoromethane	2.335	183	Identified	39387	5.329
Chloromethane	2.577	209	Identified	216924	5.375
Vinyl chloride	2.688	221	Identified	242406	5.478
Chloroethane	3.117	268	Identified	40324	5.198
Bromomethane	3.119	268	Identified	25461	3.976
Trichlorofluoromethane	3.408	300	Identified	55634	4.874
1,1-Dichloroethene	4.111	377	Identified	130808	4.928
Acetone	4.291	397	Identified	88734	8.314
Carbon disulfide	4.426	411	Identified	215371	11.204
Iodomethane	4.553	424	Identified	112894	5.527
Methyl tert-butyl ether (MTBE)	4.823	454	Identified	247403	11.241
Isopropyl ether	5.430	519	Identified	1.157E6	11.658
tert-Butyl alcohol	5.483	524	Identified	240039	76.830
trans-1,2-DCE	5.623	539	Identified	248560	5.220
tert-Butyl ethyl ether	5.938	573	Identified	3.915E6	11.566
Methylene Chloride	5.974	577	Identified	289551	8.093
1,1-Dichloroethane	6.062	586	Identified	67605	3.850
Vinyl acetate	6.268	608	Failed SPL	534686	13.088
2,2-Dichloropropane	6.476	631	Identified	55820	5.933
2-Butanone	6.582	642	Identified	222473	10.378
1,1,1-Trichloroethane	7.352	725	Identified	89046	5.113

9.5.14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.465	737	Identified	129001	4.864
tert-Amyl methyl ether	7.561	747	Identified	1.059E6	10.969
Carbon Tetrachloride	7.684	760	Identified	41709	5.015
cis-1,2-DCE	7.830	775	Identified	47641	5.083
Benzene	8.196	815	Identified	170491	5.093
Chloroform	8.424	839	Identified	88876	4.938
Bromochloromethane	8.841	884	Identified	75821	5.955
Trichloroethene (TCE)	9.211	924	Identified	286733	5.315
Dibromofluoromethane	9.237	926	Identified	205564	20.249
1,2-Dichloroethane-d4	9.352	939	Identified	778528	19.455
1,2-Dichloroethane (EDC)	9.459	950	Identified	1.162E6	5.290
1,2-Dichloropropane	9.735	980	Identified	353701	5.305
4-Methyl-2-pentanone	9.987	1006	Identified	221443	9.925
Toluene-d8	10.734	1087	Identified	172381	20.442
Toluene	10.818	1096	Identified	258584	5.468
2-Chloroethyl vinyl ether	11.051	1121	Identified	262835	10.029
cis-1,3-dichloropropene	11.263	1143	Identified	389862	5.205
Bromodichloromethane	11.273	1144	Identified	75190	5.365
2-Hexanone	11.322	1150	Identified	536652	9.463
Tetrachloroethene (PCE)	11.356	1153	Identified	74118	5.341
Dibromomethane	11.362	1154	Identified	133907	5.473
1,3-Dichloropropane	12.307	1255	Identified	145141	5.479
trans-1,3-dichloropropene	12.359	1261	Identified	76301	5.393
Ethylbenzene	12.845	1313	Identified	309812	5.602
mp-Xylenes	13.096	1340	Identified	538122	11.153
1,1,2-Trichloroethane	13.088	1339	Identified	167391	5.899
Chlorobenzene	13.422	1374	Identified	137107	5.515
1,2-Dibromoethane (EDB)	13.403	1372	Identified	42934	5.083
o-Xylene	13.767	1411	Identified	285417	5.736
Dibromochloromethane	13.733	1407	Identified	39882	5.842
1,1,1,2-Tetrachloroethane	13.787	1413	Identified	68482	6.025
Isopropylbenzene	14.008	1436	Identified	291412	5.717
Styrene	14.275	1464	Identified	133311	5.432
n-Propylbenzene	14.632	1502	Identified	374036	5.150
1,3,5-Trimethylbenzene	15.112	1554	Identified	262707	5.064
tert-Butylbenzene	15.320	1576	Identified	321370	5.040
2-Chlorotoluene	15.358	1580	Failed SM	92801	5.176
4-Bromofluorobenzene	15.405	1584	Identified	90190	18.721
Bromobenzene	15.501	1595	Identified	415273	5.107
4-Chlorotoluene	15.519	1596	Identified	631316	4.420
sec-Butylbenzene	15.598	1605	Identified	394151	4.775
1,2,4-Trimethylbenzene	15.689	1614	Identified	842480	4.905
4-Isopropyltoluene	15.887	1635	Identified	293685	5.088
Bromoform	15.966	1643	Identified	94379	4.805
1,2,3-Trichloropropane	16.172	1665	Identified	115677	4.646
n-Butylbenzene	16.500	1700	Identified	408492	4.450
1,1,2,2-Tetrachloroethane	16.595	1710	Identified	361445	4.702
1,3-Dichlorobenzene	16.747	1726	Identified	115226	4.982
1,4-Dichlorobenzene	17.009	1754	Identified	107110	4.985
1,2-Dichlorobenzene	17.590	1815	Identified	108868	4.910

09-5-14

Operator: Christina Gallegos

Inj. Notes: V-54-0478

5ppb 5035 ccv 9-4-2014.SMS
9/4/2014 11:56

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.307	2000	Identified	291567	4.927
1,2-Dibromo-3-chloropropane	19.397	2010	Identified	77098	4.127
1,2,4-Trichlorobenzene	19.891	2062	Identified	232491	4.112
Naphthalene	20.744	2153	Identified	60431	3.549
1,2,3-Trichlorobenzene	20.761	2154	Identified	189453	3.914
2-Methylnaphthalene	22.244	2310	Identified	82890	3.614
1-Methylnaphthalene	22.598	2347	Identified	117914	3.614

****
Revision Log
****

9/4/2014 11:07 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:55 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

eric SampleList Printout - Thu Sep 04 07:36:23 2014

leList: C:\AgilentWS\090314m.smp

ited: Wed Sep 03 08:15:41 2014
lfied: Wed Sep 03 20:12:59 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	rt check	below
	Notes V-54-0478	
4	b3	none
5	b4	none
6	b5	none
7	b6	none
8	b7	none tune @12:32
9		
10	0.4ppb 5035 low crv	below
	Notes V-54-0478	
11	1ppb 5035 low crv	below
	Notes V-54-0478	
12	2ppb 5035 low crv	below
	Notes V-54-0478	
13	3ppb 5035 low crv	below
	Notes V-54-0478	
14	5ppb 5035 low crv	below
	Notes V-54-0478	
15	10ppb 5035 low crv	below
	Notes V-54-0478	
16	20ppb 5035 low crv	below
	Notes V-54-0478	
17	50ppb 5035 low crv	below
	Notes V-54-0478	
18	b8	none
19	100ppb 5035 low crv	below
	Notes V-54-0478	
20	b9	none
21	b10	none
22	5ppb 5035 low icv	below @6:46
	Notes V-54-0480	
23	b11	none
24	b12	none
25		

Loaded By: 9-3-14
1st Review By: 9-4-14
QA'd By: 9-9-14

ectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

ate and update a new RecalcList: c:\agilentws\090314m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 9-3-14

Calibration Name: c903 14-m 8260-5035 Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☑	☐	☐	☑	
Chloromethane	☑	☐	☐	☑	
Vinyl chloride	☑	☐	☐	☑	
Chloroethane	☑	☐	☐	☑	
Bromomethane	☑	☐	☑	☐	UQL= 50ppb
Trichlorofluoromethane	☑	☐	☐	☑	
1,1-Dichloroethene	☑	☐	☐	☑	
Acetone	☑	☐	☐	☑	
Carbon disulfide	☑	☐	☐	☑	
Iodomethane	☑	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☑	☐	☑	☐	UQL= 40 ppb
Isopropyl ether	☑	☐	☐	☑	
tert-Butyl alcohol	☑	☐	☑	☐	UQL= 16ppb
trans-1,2-DCE	☑	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☑	☐	☑	☐	UQL= 100 ppb
1,1-Dichloroethane	☑	☐	☑	☐	UQL= 50ppb
Methylene Chloride	☐	Low ☑	☑	☐	~~[illegible]~~
Vinyl acetate	☐	High ☑	☑	☐	PQL= 4ppb ... on a different instrument
2,2-Dichloropropane	☐	High ☑	☑	☐	UQL= 5 ppb, ... on a different instrument
2-Butanone	☑	☐	☑	☐	PQL= 2ppb
1,1,1-Trichloroethane	☑	☐	☐	☑	
1,1-Dichloropropene	☑	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☑	☐	☐	☑	
Carbon Tetrachloride	☑	☐	☐	☑	
cis-1,2-DCE	☑	☐	☐	☑	
Benzene	☑	☐	☐	☑	
Chloroform	☑	☐	☐	☑	
Bromochloromethane	☑	☐	☐	☑	
Trichloroethene (TCE)	☑	☐	☐	☑	
Dibromofluoromethane	N/A	N/A	☐	☑	
1,2-Dichloroethane-d4	N/A	N/A	☐	☑	
1,2-Dichloroethane (EDC)	☑	☐	☐	☑	
1,2-Dichloropropane	☑	☐	☐	☑	
4-Methyl-2-pentanone	☑	☐	☐	☑	
Toluene-d8	N/A	N/A	☐	☑	
Toluene	☑	☐	☐	☑	
2-Choroethyl vinyl ether	☑	☐	☑	☐	UQL= 40 ppb
cis-1,3-dichloropropene	☑	☐	☐	☑	
Bromodichloromethane	☑	☐	☐	☑	
Dibromomethane	☑	☐	☑	☐	UQL= 30 ppb
2-Hexanone	☑	☐	☑	☐	PQL= 2 ppb
Tetrachloroethene (PCE)	☑	☐	☐	☑	
1,3-Dichloropropane	☑	☐	☐	☑	
trans-1,3-dichloropropene	☑	☐	☐	☑	
Ethylbenzene	☑	☐	☐	☑	

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	MRL = 20 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☑	☐	MRL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: CG 9-4-14

QA: RA 9-8-14

Additional Comments: RRDs updated & verified CG 9-4-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ing\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS Lab Sample ID: 5ppb 5035 low crv

Instrument ID: Mercury Date Analyzed: 9/3/2014 Time Analyzed: 14:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	52652	7.09	74456	13.40	27159	16.99						
UPPER LIMIT	105304	7.59	148912	13.90	54318	17.49						
LOWER LIMIT	26326	6.59	37228	12.90	13580	16.49						
EPA SAMPLE NO												
b7 9-3-201	71382	7.08	99458	13.40	29907	16.98						
0.4ppb 503	62139	7.09	89513	13.40	30671	16.98						
1ppb 5035	61341	7.09	90104	13.40	31887	16.99						
2ppb 5035	65557	7.10	98399	13.40	35150	16.99						
3ppb 5035	57934	7.09	86901	13.40	32406	16.99						
10ppb 5035	61849	7.10	87532	13.40	31607	16.99						
20ppb 5035	66768	7.10	99679	13.40	36421	16.99						
50ppb 5035	64785	7.10	100160	13.40	34898	16.99						
b8 9-3-201	60099	7.10	84835	13.40	29057	16.99						
100ppb 503	55979	7.09	82032	13.40	31122	16.99						
b9 9-3-201	63044	7.09	90962	13.40	32759	16.99						
b10 9-3-20	60522	7.09	87341	13.40	30100	16.99						
5ppb 5035	64075	7.09	88987	13.40	33984	16.98						
b11 9-3-20	61835	7.09	88663	13.40	29821	16.99						
b12 9-3-20	57081	7.09	79492	13.40	28720	16.99						

9-4-14

9-8-14

9/4/2014 12:18

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 9-3-2014.sms Injection Date: 9/3/2014

Instrument ID: Mercury Injection Time: 12:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	22.7	
75	30-60% of m/z 95	50.0	
95	base peak	100.0	
96	5-9% of m/z 95	7.7	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	63.6	
175	5-9% of m/z 174	4.7 (7.4)	174
176	>95% but <101% of m/z 174	63.0 (99.1)	174
177	5-9% of m/z 176	4.4 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 9-3-201	b7	c:\agilentws\data\pending\090414m 5035 low crv\b7 9-3-2014.SMS	9/3/2014 12:32
3 0.4ppb 503	0.4ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\0.4ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:01
4 1ppb 5035	1ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\1ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:30
5 2ppb 5035	2ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\2ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:59
6 3ppb 5035	3ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\3ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:27
7 5ppb 5035	5ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:56
8 10ppb 5035	10ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\10ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:25
9 20ppb 5035	20ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\20ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:54
10 50ppb 5035	50ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\50ppb 5035 low crv 9-3-2014.SMS	9/3/2014 16:23
11 b8 9-3-201	b8	c:\agilentws\data\pending\090414m 5035 low crv\b8 9-3-2014.SMS	9/3/2014 16:51
12 100ppb 503	100ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\100ppb 5035 low crv 9-3-2014.SMS	9/3/2014 17:20
13 b9 9-3-201	b9	c:\agilentws\data\pending\090414m 5035 low crv\b9 9-3-2014.SMS	9/3/2014 17:49

Analyst: cadg

JRA 9-8-14

cdg 9-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b10 9-3-20	b10	c:\agilentws\data\pending\090414m 5035 low crv\b10 9-3-2014.SMS	9/3/2014 18:18
15 5ppb 5035	5ppb 5035 low icv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low icv 9-3-2014.SMS	9/3/2014 18:46
16 b11 9-3-20	b11	c:\agilentws\data\pending\090414m 5035 low crv\b11 9-3-2014.SMS	9/3/2014 19:15
17 b12 9-3-20	b12	c:\agilentws\data\pending\090414m 5035 low crv\b12 9-3-2014.SMS	9/3/2014 19:44

JR 9.8.14 cdg 9-4-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 9/3/2014 9/3/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 17:20 17:20

GC Column: DB-VRX ID: 250 (mm)

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	2.792	2.704	2.555	2.519	2.693	2.373	2.329	2.124	0.9996	2.467	10.1	PASS	PASS
2.115													
Chloromethane	10.581	9.350	10.983	11.330	12.473	12.799	12.870	12.474	0.9999	11.739	10.6	PASS	PASS
12.790													
Vinyl chloride	8.784	10.310	12.330	14.414	14.507	14.357	14.174	12.969	0.9995	12.808	15.8	PASS	PASS
13.422													
Chloroethane	1.580	1.482	1.528	1.833	2.191	2.680	2.666	2.571	0.9992	2.112	24.1	PASS	PASS
2.476													

Analyst: cadg

9/4/14

cag-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	3.244	1.671	1.341	1.594	1.638	2.063	3.343	4.522	0.9986	2.427	47.0	PASS	PASS
Trichlorofluoromethane	3.436	3.374	3.438	3.516	3.856	3.335	3.434	3.370	0.9990	3.484	4.6	PASS	PASS
3.599													
1,1-Dichloroethene	7.892	8.133	8.126	8.295	8.575	7.792	7.996	7.821	0.9990	8.111	3.3	PASS	PASS
8.370													
Acetone	4.906	2.902	2.773	2.716	2.357	2.415	3.132	3.350	0.9981	3.129	25.0	PASS	PASS
3.609													
Carbon disulfide	7.278	6.584	6.441	6.603	6.905	6.440	6.333	5.836	0.9973	6.415	8.9	PASS	PASS
5.314													
Iodomethane	4.126	3.107	3.395	4.237	4.568	5.824	7.922	8.519	0.9966	5.212	39.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.370	7.269	7.540	7.605	7.326	6.665	6.391		0.9986	7.167	6.4	PASS	PASS
Isopropyl ether	31.322	34.552	35.665	35.788	34.851	34.051	34.769	30.072	0.9956	33.126	9.0	PASS	PASS
27.063													
tert-Butyl alcohol	1.137	1.106	0.974	0.932	0.965				0.9983	1.023	9.0	PASS	PASS
trans-1,2-DCE	15.093	15.157	15.310	15.467	15.835	14.910	14.981	14.039	0.9998	15.014	3.7	PASS	PASS
14.335													
tert-Butyl ethyl ether	113.924	118.465	122.392	118.860	114.053	111.098	113.526	92.034	0.9918	113.044	8.2	PASS	PASS
Methylene Chloride					12.985	10.172	9.155	7.974	0.9996	9.554	22.9	PASS	PASS
7.484													
1,1-Dichloroethane	2.610	2.738	3.206	3.449	4.137	4.728	5.861	6.870	0.9954	4.200	36.4	PASS	PASS

Analyst: cadg

9.8.14

9.8.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate			9.612	9.550	10.646	12.523	14.786	14.837	0.9985	12.273	19.1	PASS	PASS
13.959													
2,2-Dichloropropane	2.997	2.729	2.665	2.637	2.958				0.9939	2.797	6.0	PASS	PASS
2-Butanone		5.614	7.554	6.215	7.262	6.488	6.690	6.468	0.9999	6.599	9.1	PASS	PASS
6.505													
1,1,1-Trichloroethane	5.722	5.312	5.433	5.435	5.929	5.230	5.423	5.341	0.9998	5.448	4.3	PASS	PASS
5.212													
1,1-Dichloropropene	8.233	8.360	8.155	8.277	8.580	7.854	8.265	8.042	1.0000	8.206	2.5	PASS	PASS
8.087													
tert-Amyl methyl ether	29.899	31.213	31.645	32.207	31.095	30.633	31.551	27.752	0.9972	30.749	4.5	PASS	PASS
Carbon Tetrachloride	2.485	2.511	2.474	2.643	2.825	2.515	2.635	2.558	0.9998	2.572	4.4	PASS	PASS
2.502													
cis-1,2-DCE	2.756	2.841	2.917	2.917	2.994	2.813	2.967	2.830	0.9999	2.879	2.7	PASS	PASS
2.875													
Benzene	10.466	10.463	10.372	10.679	10.993	10.206	10.459	9.994	0.9999	10.424	2.8	PASS	PASS
10.185													
Chloroform	5.007	5.042	5.459	5.312	5.544	5.470	5.794	5.497	0.9999	5.414	4.7	PASS	PASS
5.597													
Bromochloromethane	4.687	4.752	4.845	4.534	4.340	3.897	3.954	3.800	0.9995	4.272	10.7	PASS	PASS
3.641													
Trichloroethene (TCE)	17.850	16.797	16.874	17.052	18.019	16.205	16.737	16.185	0.9999	16.896	3.9	PASS	PASS
16.345													
Dibromofluoromethane	3.021	2.934	3.190	3.135	3.185	3.137	3.227	3.125	0.9924	3.114	2.9	PASS	PASS
3.074													

Analyst: cadg

9-8-14

9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,2-Dichloroethane-d4	12.853	12.438	12.827	12.826	12.963	11.803	11.935	11.613	0.9761	12.276	5.2	PASS	PASS
1,2-Dichloroethane (EDC)	66.785	69.782	71.229	71.860	70.983	68.896	71.975	68.359	0.9987	69.309	3.8	PASS	PASS
1,2-Dichloropropane	22.334	21.052	22.279	22.708	21.294	20.544	21.452	20.131	0.9996	21.264	5.0	PASS	PASS
4-Methyl-2-pentanone	4.355	4.731	4.500	4.758	5.374	4.912	4.753	4.678	0.9999	4.758	5.9	PASS	PASS
Toluene-d8	1.888	1.803	1.784	1.799	1.903	1.841	1.771	1.764	0.9935	1.819	2.7	PASS	PASS
Toluene	11.587	10.924	10.763	10.644	11.676	10.756	10.314	9.528	0.9993	10.686	6.5	PASS	PASS
2-Chloroethyl vinyl ether	4.512	5.295	4.668	5.460	5.481	5.721	5.881		0.9996	5.288	9.7	PASS	PASS
cis-1,3-dichloropropene	14.297	13.672	14.918	15.146	16.310	16.872	17.153	16.559	0.9997	15.677	7.7	PASS	PASS
Bromodichloromethane	3.156	2.878	2.951	3.108	3.210	3.230	3.228	2.943	0.9996	3.073	4.6	PASS	PASS
2-Hexanone		12.377	11.269	12.314	13.403	11.837	11.940	11.779	0.9988	12.201	5.3	PASS	PASS
Tetrachloroethene (PCE)	3.288	3.128	2.964	3.025	3.318	2.951	2.986	2.851	0.9994	3.057	5.1	PASS	PASS
Dibromomethane	5.580	5.685	5.464	5.737	5.631	5.560	4.923		0.9957	5.511	5.0	PASS	PASS
1,3-Dichloropropane	5.604	5.072	6.118	6.096	6.490	6.178	6.152	5.662	0.9992	5.868	7.6	PASS	PASS

RRF9: 11.225, 63.907, 19.585, 4.761, 1.821, 9.984, 16.169, 2.953, 12.687, 3.002, 5.441

9-8-14

Analyst: cadg

9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
trans-1,3-dichloropropene 3.017	2.164	2.261	2.705	2.804	3.025	3.270	3.385	3.274	0.9980	2.878	15.2	PASS	PASS
Ethylbenzene 11.806	13.293	12.615	12.289	12.288	13.721	12.055	11.893	11.304	0.9995	12.363	6.1	PASS	PASS
mp-Xylenes 10.394	11.863	10.945	10.688	10.714	11.686	10.687	10.389	9.668	0.9988	10.781	6.2	PASS	PASS
1,1,2-Trichloroethane 5.509	6.801	6.904	7.218	6.990	7.183	6.945	6.697	5.977	0.9974	6.692	8.6	PASS	PASS
Chlorobenzene 5.292	5.797	5.374	5.374	5.380	5.786	5.419	5.520	5.234	0.9999	5.464	3.7	PASS	PASS
1,2-Dibromoethane (EDB)	1.633	1.716	1.780	1.777	1.876	1.859	1.816		0.9997	1.779	4.7	PASS	PASS
o-Xylene 10.581	11.579	11.077	11.260	11.397	11.933	11.254	10.902	10.136	0.9995	11.124	4.8	PASS	PASS
Dibromochloromethane 1.416	1.541	1.527	1.557	1.596	1.584	1.563	1.550	1.436	0.9997	1.530	4.1	PASS	PASS
1,1,1,2-Tetrachloroethane 2.314	2.564	2.611	2.567	2.633	2.738	2.585	2.636	2.436	0.9990	2.565	4.8	PASS	PASS
Isopropylbenzene 10.960	11.898	11.747	11.112	11.458	12.598	11.378	11.057	10.218	0.9988	11.381	5.9	PASS	PASS
Styrene 5.395	5.086	5.081	5.244	5.509	5.616	5.324	5.391	5.012	0.9989	5.295	3.9	PASS	PASS
n-Propylbenzene 37.879	41.896	41.911	39.761	39.083	44.262	39.414	38.748	37.338	0.9999	40.032	5.6	PASS	PASS
1,3,5-Trimethylbenzene 27.079	31.400	29.452	28.656	27.992	31.376	28.943	27.065	26.463	0.9998	28.714	6.3	PASS	PASS

Analyst: cadg

9-8-14

cag 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
tert-Butylbenzene	37.345	38.501	35.839	35.386	39.030	35.194	33.232	33.114	0.9999	35.590	6.6	PASS	PASS
32.671													
2-Chlorotoluene	10.874	10.965	9.984	9.938	10.831	10.011	9.785	9.446	0.9993	10.090	6.8	PASS	PASS
8.976													
4-Bromofluorobenzene	2.682	2.648	2.547	2.412	2.535	2.586	2.538	2.633	0.9914	2.569	3.1	PASS	PASS
2.539													
Bromobenzene	51.961	48.246	46.930	44.776	48.054	45.185	44.475	40.231	0.9982	46.232	7.4	PASS	PASS
4-Chlorotoluene	70.489	69.756	68.776	68.910	75.716	71.147	73.168	77.117	0.9993	72.898	5.8	PASS	PASS
81.002													
sec-Butylbenzene	44.162	46.326	43.680	45.252	50.204	44.118	42.860	42.743	0.9998	44.789	5.2	PASS	PASS
43.759													
1,2,4-Trimethylbenzene	91.514	95.289	89.884	93.837	104.343	94.689	90.043	89.158	0.9999	93.256	5.1	PASS	PASS
90.546													
4-Isopropyltoluene	29.169	32.627	31.282	31.073	36.941	32.230	31.068	30.375	0.9998	31.608	7.2	PASS	PASS
29.707													
Bromoform	10.683	10.739	10.536	9.830	10.927	10.717	10.980	10.876	0.9984	10.590	3.8	PASS	PASS
10.024													
1,2,3-Trichloropropane	14.006	13.190	13.218	12.596	14.218	13.575	13.229	13.258	1.0000	13.380	3.6	PASS	PASS
13.131													
n-Butylbenzene	34.071	43.146	44.814	47.840	57.336	50.678	49.828	50.032	0.9999	47.478	13.5	PASS	PASS
49.553													
1,1,2,2-Tetrachloroethane	41.646	39.732	41.087	40.367	44.586	42.303	41.781	41.744	0.9994	41.440	3.6	PASS	PASS
39.717													
1,3-Dichlorobenzene	13.158	13.226	12.806	12.553	13.874	12.935	12.403	12.359	0.9994	12.783	4.8	PASS	PASS
11.734													

9-8-14

Analyst: cadg

cdg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,4-Dichlorobenzene	10.744	11.155	11.211	11.061	13.265	11.712	11.686	11.778	0.9992	11.524	6.4	PASS	PASS
11.101													
1,2-Dichlorobenzene	11.602	12.356	12.004	11.630	13.114	12.205	12.457	11.682	0.9997	12.055	4.4	PASS	PASS
11.444													
Hexachlorobutadiene	34.181	35.944	31.909	33.374	37.539	32.617	30.456	29.395	0.9992	32.940	8.0	PASS	PASS
31.049													
1,2-Dibromo-3-chloropropane	8.613	9.082	8.767	9.164	10.962	10.089	9.958	10.162	0.9999	9.671	8.2	PASS	PASS
10.244													
1,2,4-Trichlorobenzene	16.353	18.662	22.700	25.676	32.043	30.610	33.015	32.724	0.9999	27.156	24.1	PASS	PASS
32.619													
Naphthalene	4.703	5.487	6.444	7.544	9.833	9.953	11.492	12.139	0.9999	8.984	34.1	PASS	PASS
13.258													
1,2,3-Trichlorobenzene	14.075	15.820	18.594	22.079	28.857	27.237	29.682	28.426	0.9992	23.552	25.7	PASS	PASS
27.200													
2-Methylnaphthalene	3.928	5.421	7.663	9.159	12.972	14.218	17.446	19.283	0.9998	12.304	49.6	PASS	PASS
20.642													
1-Methylnaphthalene	6.669	8.399	11.513	12.735	17.945	20.537	23.724	25.864	0.9999	17.249	45.1	PASS	PASS
27.857													
										Average %RSD	10.2		

/ 9-9-14

cdg 9.8.14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 lo **Acquisition Date:** 9/3/2014 18:46

Comment: V-54-0480

SampleID: 5ppb 5035 low icv **Analyst:** Rene Aguilera

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Cal. Sample Dates: First: 9/3/2014 17:20 **Last:** 9/3/2014 17:20

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	6.12	ppb	5.00	122 %	70 - 130	PASS
2)	Chloromethane	5.14	ppb	5.00	103 %	70 - 130	PASS
3)	Vinyl chloride	5.53	ppb	5.00	111 %	80 - 120	PASS
4)	Chloroethane	5.16	ppb	5.00	103 %	70 - 130	PASS
5)	Bromomethane	5.92	ppb	5.00	118 %	70 - 130	PASS
6)	Trichlorofluoromethane	4.49	ppb	5.00	90 %	70 - 130	PASS
7)	1,1-Dichloroethene	4.65	ppb	5.00	93 %	80 - 140	PASS
8)	Acetone	9.02	ppb	10.00	90 %	60 - 140	PASS
9)	Carbon disulfide	11.64	ppb	10.00	116 %	60 - 140	PASS
10)	Iodomethane	6.79	ppb	10.00	68 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	10.77	ppb	10.00	108 %	70 - 130	PASS
12)	Isopropyl ether	11.56	ppb	10.00	116 %	60 - 140	PASS
13)	tert-Butyl alcohol	95.41	ppb	100.00	95 %	60 - 140	PASS
14)	trans-1,2-DCE	4.94	ppb	5.00	99 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	11.13	ppb	10.00	111 %	60 - 140	PASS
16)	Methylene Chloride	2.75	ppb	5.00	55 %	70 - 130	FAIL
17)	1,1-Dichloroethane	3.53	ppb	5.00	71 %	70 - 130	PASS
18)	Vinyl acetate	16.68	ppb	10.00	167 %	60 - 140	FAIL
19)	2,2-Dichloropropane	6.59	ppb	5.00	132 %	70 - 130	FAIL
20)	2-Butanone	11.47	ppb	10.00	115 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	5.05	ppb	5.00	101 %	70 - 130	PASS
23)	1,1-Dichloropropene	4.78	ppb	5.00	96 %	70 - 130	PASS
24)	tert-Amyl methyl ether	10.77	ppb	10.00	108 %	60 - 140	PASS
25)	Carbon Tetrachloride	5.02	ppb	5.00	100 %	70 - 130	PASS
26)	cis-1,2-DCE	4.84	ppb	5.00	97 %	70 - 130	PASS
27)	Benzene	4.93	ppb	5.00	99 %	70 - 130	PASS
28)	Chloroform	4.82	ppb	5.00	96 %	80 - 120	PASS
29)	Bromochloromethane	5.39	ppb	5.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	5.06	ppb	5.00	101 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	5.00	ppb	5.00	100 %	70 - 130	PASS
34)	1,2-Dichloropropane	5.13	ppb	5.00	103 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	11.32	ppb	10.00	113 %	60 - 140	PASS
37)	Toluene	5.39	ppb	5.00	108 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	10.78	ppb	10.00	108 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	4.50	ppb	5.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	5.38	ppb	5.00	108 %	70 - 130	PASS
41)	2-Hexanone	11.41	ppb	10.00	114 %	60 - 140	PASS

11 9-9-14
Passes PAL evaluation
~~[illegible]~~
rerun on a different instrument

cadg 9-4-14

RA 9-8-14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	5.39	ppb	5.00	108 %	70 - 130	PASS
43)	Dibromomethane	5.34	ppb	5.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	5.42	ppb	5.00	108 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	4.82	ppb	5.00	96 %	70 - 130	PASS
46)	Ethylbenzene	5.47	ppb	5.00	109 %	80 - 120	PASS
47)	mp-Xylenes	10.73	ppb	10.00	107 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	5.83	ppb	5.00	117 %	70 - 130	PASS
50)	Chlorobenzene	5.22	ppb	5.00	104 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	4.82	ppb	5.00	96 %	70 - 130	PASS
52)	o-Xylene	5.44	ppb	5.00	109 %	70 - 130	PASS
53)	Dibromochloromethane	5.63	ppb	5.00	113 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	5.50	ppb	5.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	5.45	ppb	5.00	109 %	70 - 130	PASS
56)	Styrene	5.28	ppb	5.00	106 %	70 - 130	PASS
57)	n-Propylbenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	5.07	ppb	5.00	101 %	70 - 130	PASS
59)	tert-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
60)	2-Chlorotoluene	5.17	ppb	5.00	103 %	70 - 130	PASS
62)	Bromobenzene	5.13	ppb	5.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	4.57	ppb	5.00	91 %	70 - 130	PASS
64)	sec-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	5.02	ppb	5.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	5.45	ppb	5.00	109 %	70 - 130	PASS
67)	Bromoform	4.93	ppb	5.00	99 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	5.10	ppb	5.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	4.97	ppb	5.00	99 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	5.15	ppb	5.00	103 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	5.01	ppb	5.00	100 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	4.95	ppb	5.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	5.28	ppb	5.00	106 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	4.96	ppb	5.00	99 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	4.69	ppb	5.00	94 %	70 - 130	PASS
78)	Naphthalene	4.55	ppb	5.00	91 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	4.75	ppb	5.00	95 %	70 - 130	PASS
80)	2-Methylnaphthalene	5.93	ppb	5.00	119 %	60 - 140	PASS
81)	1-Methylnaphthalene	5.61	ppb	5.00	112 %	60 - 140	PASS

* indicates Internal Standard.

cadg 9-4-14

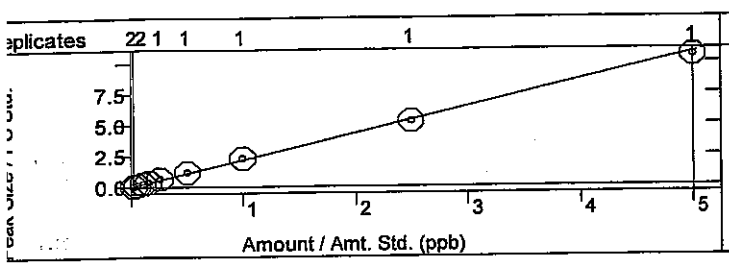
9-8-14

Analyst: cadg

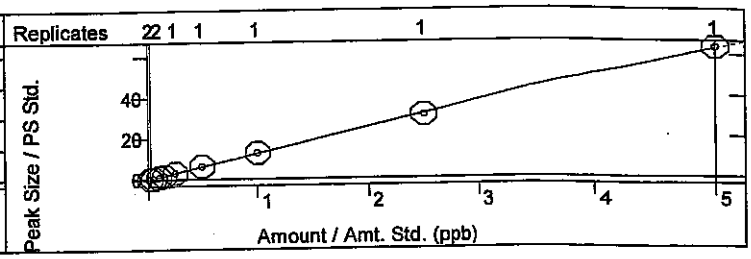
9-8-14 cg 9-4-14

lethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
ecalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ample List:	N/A	Method Modified:	9/4/2014 11:24 AM
equence:	N/A	Detector:	200-MS Mass Spec
IS Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

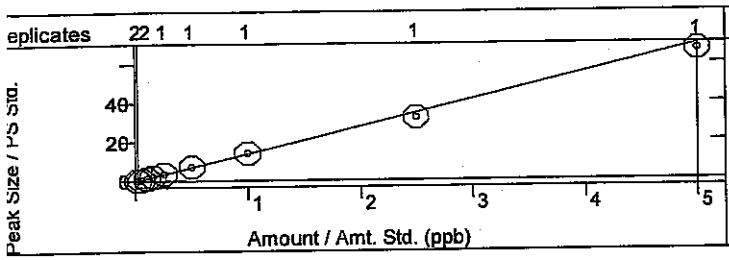
)ichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.06%, Coeff. Det.(r2): 0.999617
y = +2.1559x +0.0297



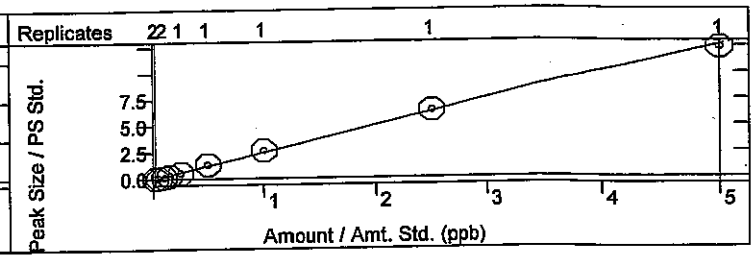
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.59%, Coeff. Det.(r2): 0.999858
y = +12.7330x -0.0949



/inyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.999489
/ = +13.9854x -0.1125

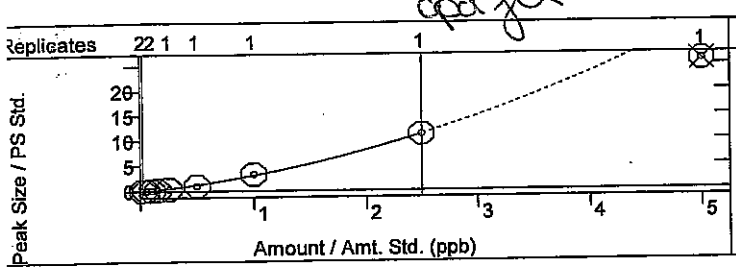


Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.13%, Coeff. Det.(r2): 0.999213
y = +2.5349x -0.0404

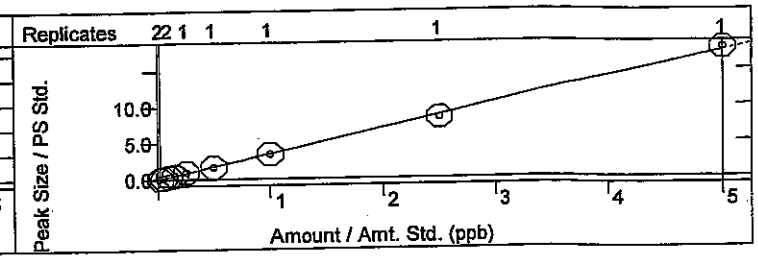


Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 46.96%, Coeff. Det.(r2): 0.998591
y = +0.8862x2 +2.3605x -0.1138

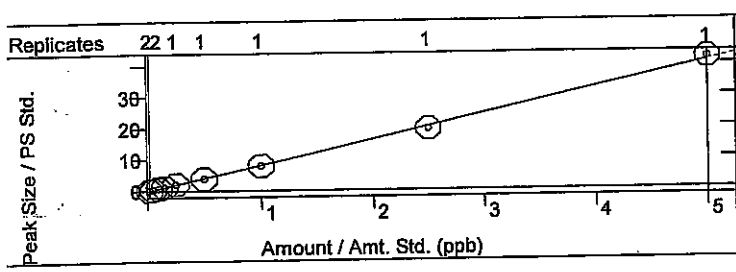
cgd 9/4



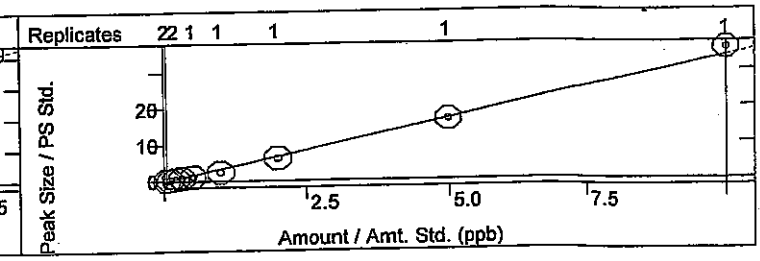
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.999047
y = +3.5126x -0.0027



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.273%, Coeff. Det.(r2): 0.999021
y = +8.1613x -0.0048



Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.99%, Coeff. Det.(r2): 0.998084
y = +3.3969x -0.0512

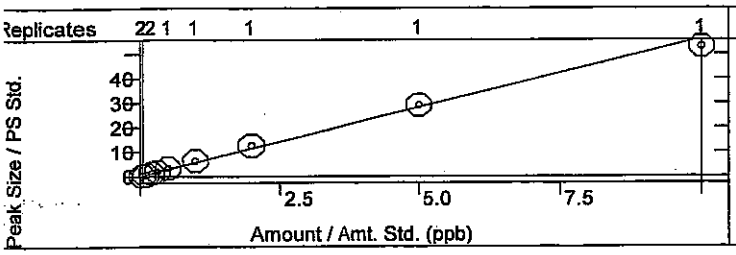


JM 9.8.14 cg 9-4-14

Calibration Curves Report

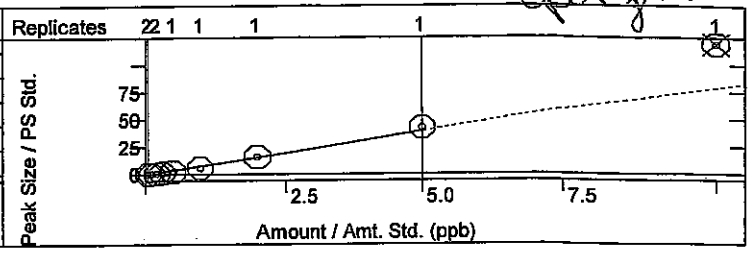
Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.895%, Coeff. Det.(r2): 0.997307
y = +5.6292x +0.1500



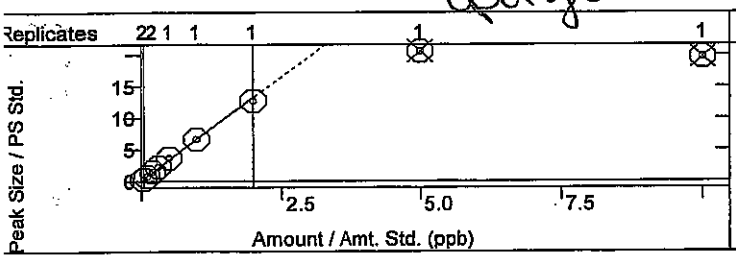
Iodomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 39.00%, Coeff. Det.(r2): 0.996600
y = +7.9543x -0.4664

cpd fit

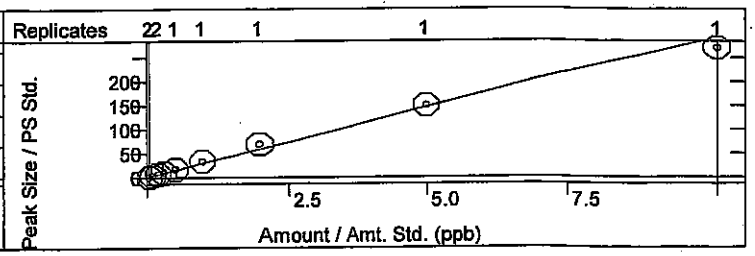


Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.403%, Coeff. Det.(r2): 0.998556
y = +6.6011x +0.0845

cpd fit

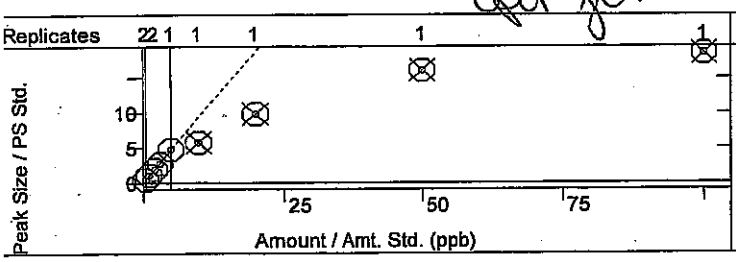


Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.021%, Coeff. Det.(r2): 0.995610
y = +29.1397x +0.7611

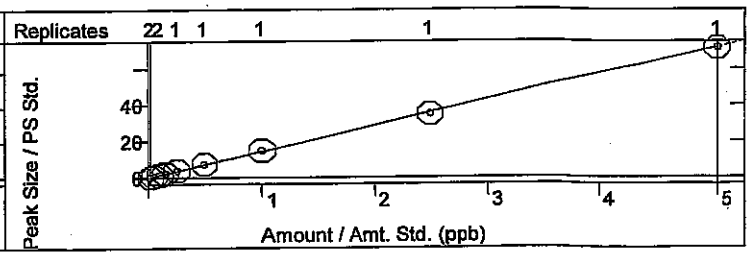


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.017%, Coeff. Det.(r2): 0.998254
y = +0.9325x +0.0995

cpd fit

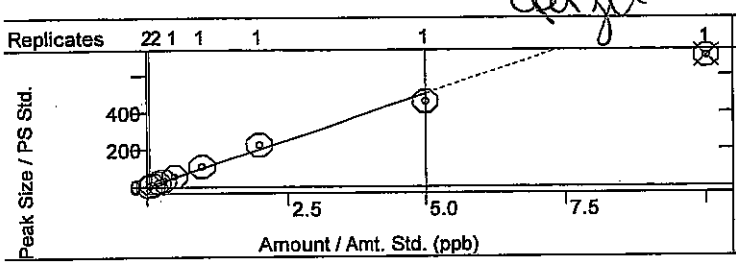


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.662%, Coeff. Det.(r2): 0.999784
y = +14.3704x +0.0615



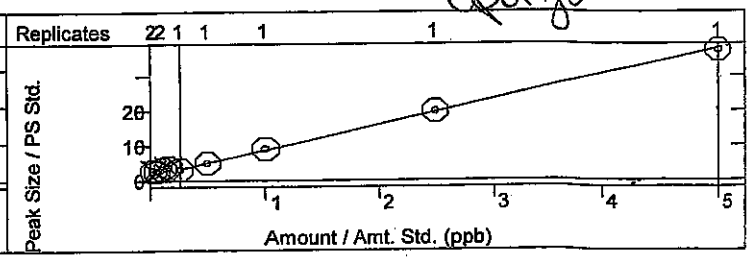
tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.175%, Coeff. Det.(r2): 0.991835
y = +100.0174x +2.2157

cpd fit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 22.87%, Coeff. Det.(r2): 0.999634
y = +7.2833x +1.4939

cpd fit

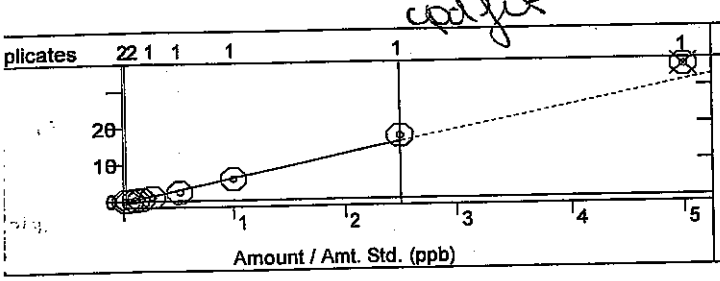


alibration Curves Report

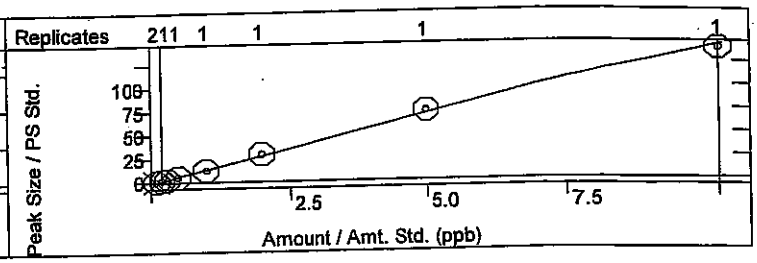
9-8-14 cgg-4-14

ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
calc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
mple List:	N/A	Method Modified:	9/4/2014 11:24 AM
quence:	N/A	Detector:	200-MS Mass Spec
S Workstation		Workstation Version:	Version 7.0.1
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

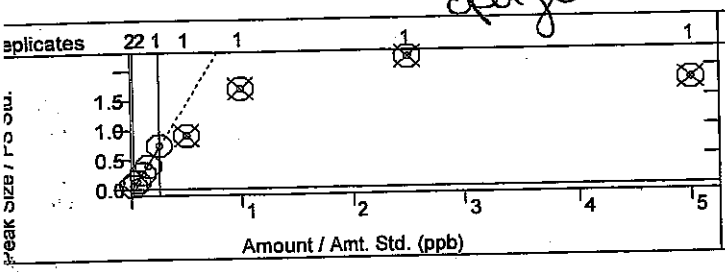
1-Dichloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 36.43%, Coeff. Det.(r2): 0.995416
= +6.3254x -0.1808



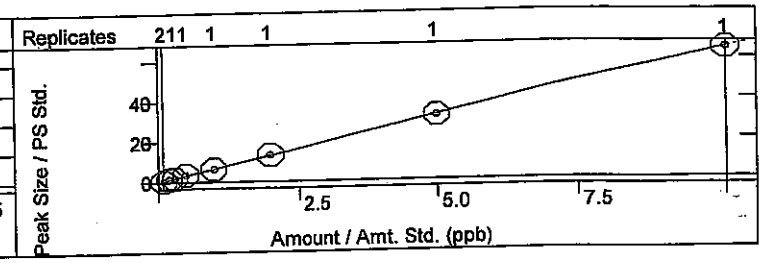
Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.09%, Coeff. Det.(r2): 0.998496
y = +14.4646x -1.2642



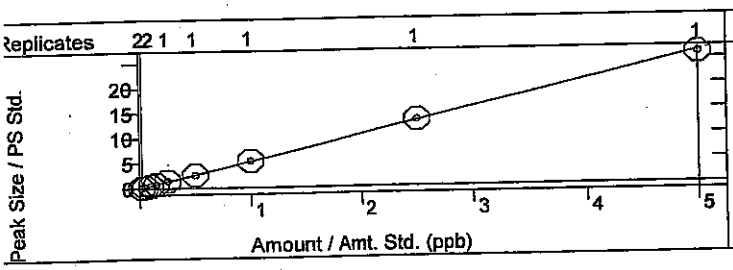
,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.022%, Coeff. Det.(r2): 0.993891
= +2.9379x -0.0153



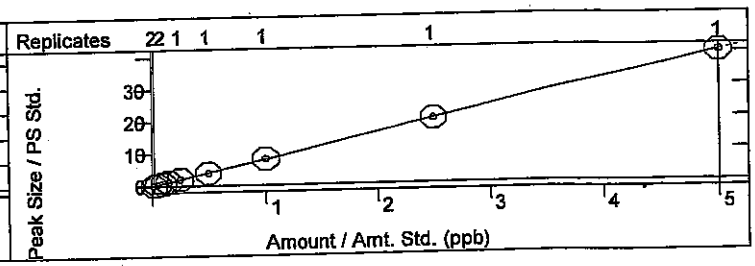
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.088%, Coeff. Det.(r2): 0.999913
y = +6.5236x +0.0274



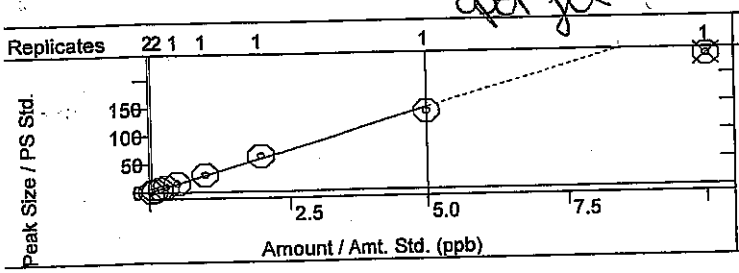
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.309%, Coeff. Det.(r2): 0.999819
y = +5.2795x +0.0161



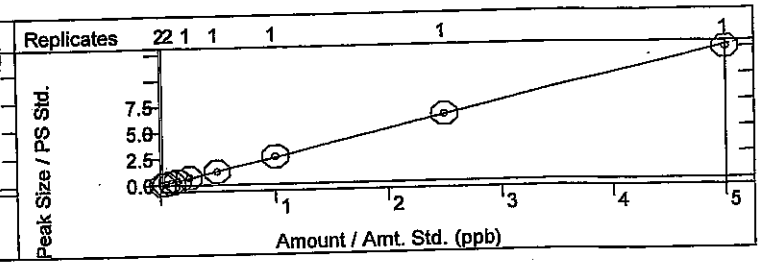
1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.513%, Coeff. Det.(r2): 0.999952
y = +8.0895x +0.0111



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.537%, Coeff. Det.(r2): 0.997173
y = +29.1170x +0.2776



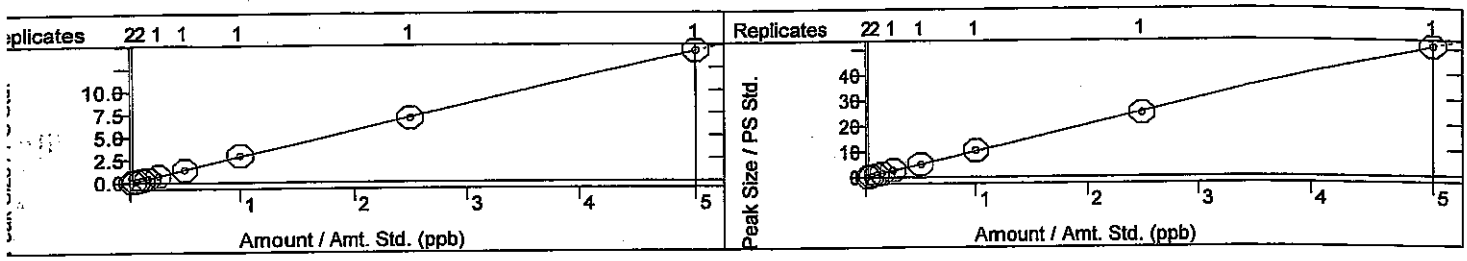
Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.398%, Coeff. Det.(r2): 0.999800
y = +2.5384x +0.0032



lethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
ecalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ample List:	N/A	Method Modified:	9/4/2014 11:24 AM
equence:	N/A	Detector:	200-MS Mass Spec
IS Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

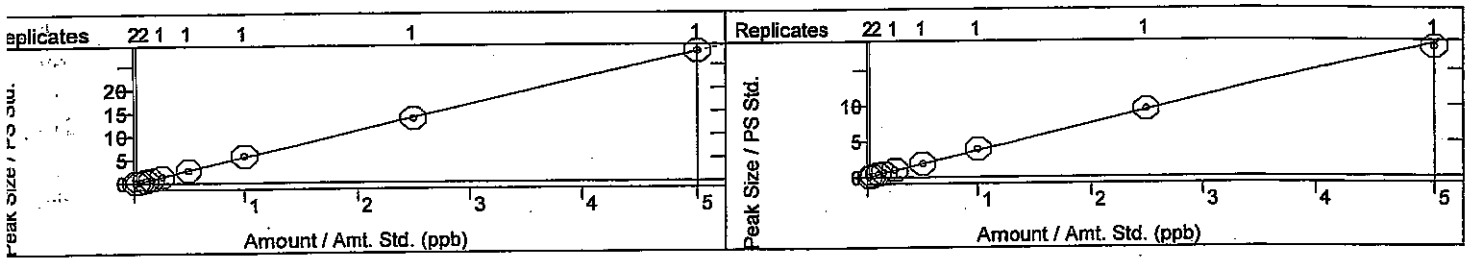
is-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.672%, Coeff. Det.(r2): 0.999882
y = +2.8729x +5.7204e-4

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.809%, Coeff. Det.(r2): 0.999867
y = +10.1754x +0.0237



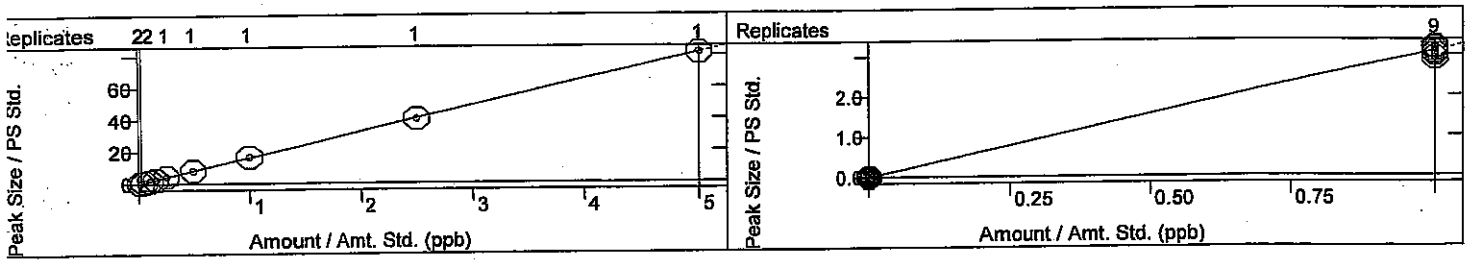
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.715%, Coeff. Det.(r2): 0.999856
y = +5.5895x -0.0168

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.68%, Coeff. Det.(r2): 0.999537
y = +3.7332x +0.0515



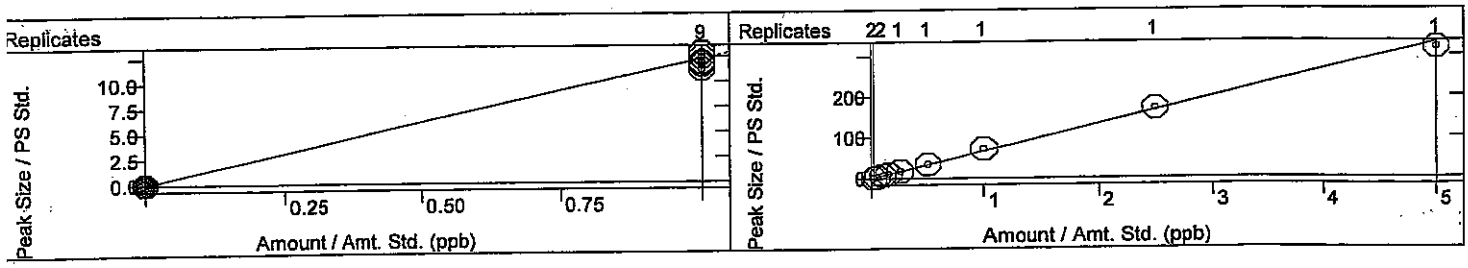
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.925%, Coeff. Det.(r2): 0.999929
y = +16.3543x +0.0517

Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.943%, Coeff. Det.(r2): 0.992359
y = +3.1142x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.250%, Coeff. Det.(r2): 0.976088
y = +12.2758x

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.850%, Coeff. Det.(r2): 0.998690
y = +66.3291x +0.2845

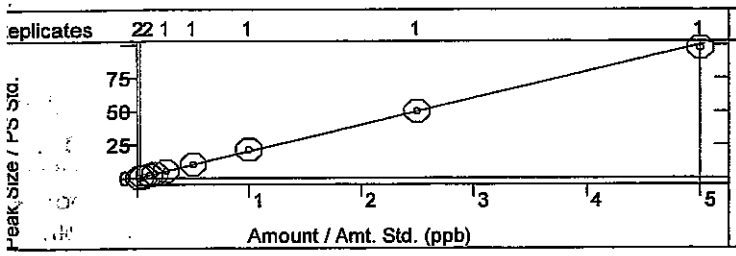


Calibration Curves Report

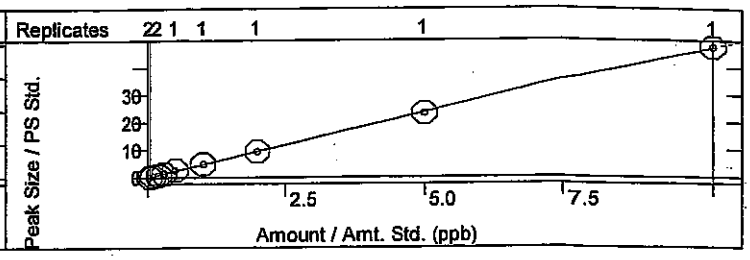
9-8-14 cgg 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

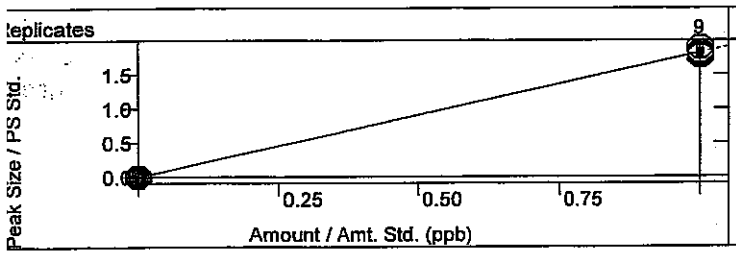
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.977%, Coeff. Det.(r2): 0.999621
y = +19.9939x +0.1213



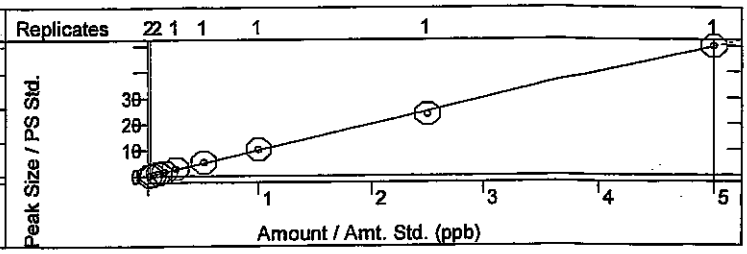
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.941%, Coeff. Det.(r2): 0.999871
y = +4.7424x +0.0354



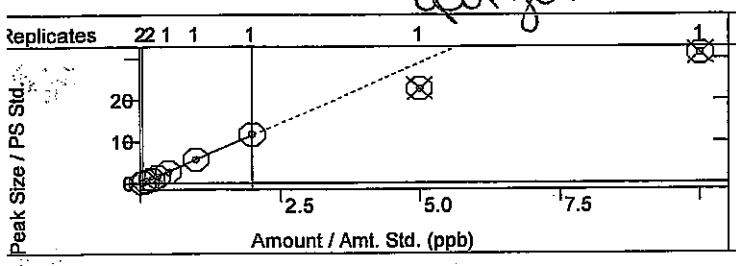
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.710%, Coeff. Det.(r2): 0.993517
y = +1.8193x



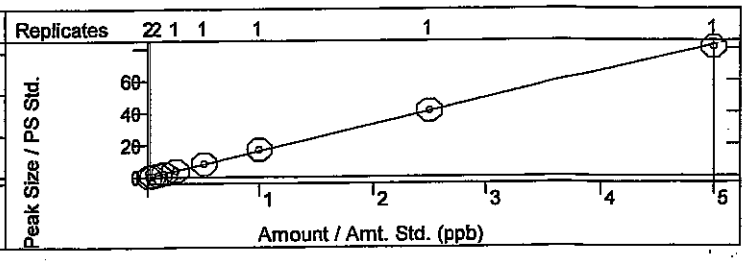
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.479%, Coeff. Det.(r2): 0.999324
y = +9.9440x +0.0709



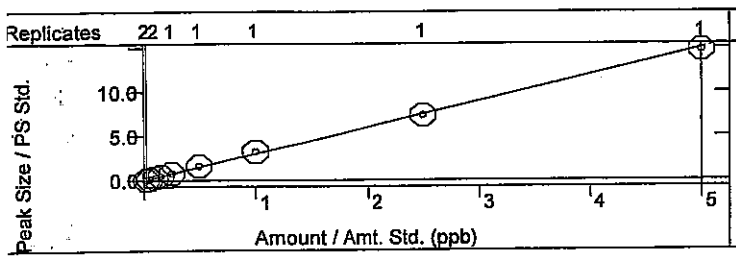
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.742%, Coeff. Det.(r2): 0.999630
y = +5.8091x -0.0778



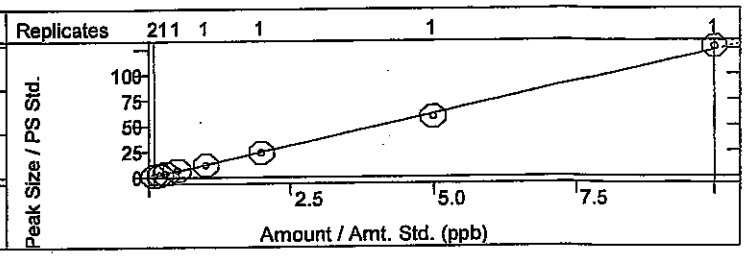
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.750%, Coeff. Det.(r2): 0.999731
y = +16.4363x -0.0725



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.597%, Coeff. Det.(r2): 0.999625
y = +2.9960x +0.0073



2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.341%, Coeff. Det.(r2): 0.998761
y = +12.3449x -0.0521

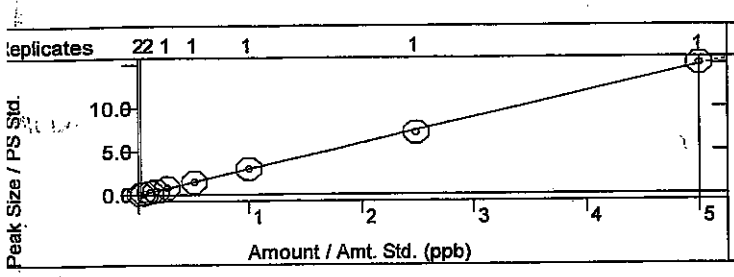


Calibration Curves Report

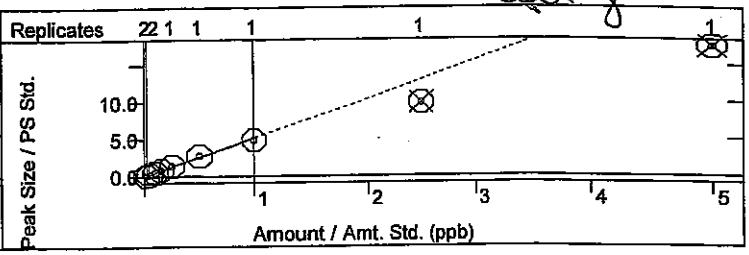
1-9-14 09-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

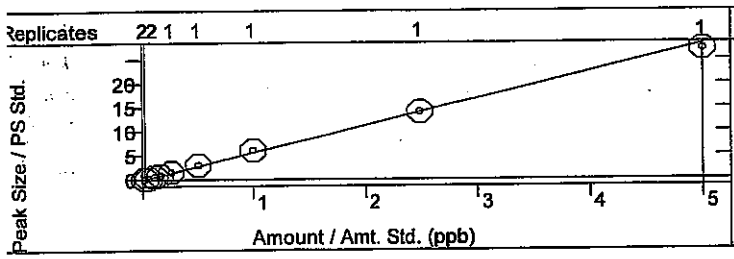
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.142%, Coeff. Det.(r2): 0.999392
y = +2.9589x +0.0094



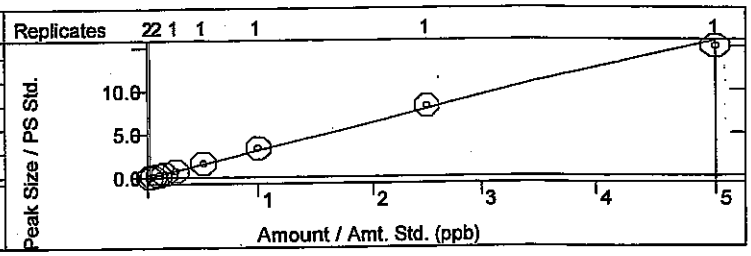
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.975%, Coeff. Det.(r2): 0.995715
y = +5.1913x +0.0239



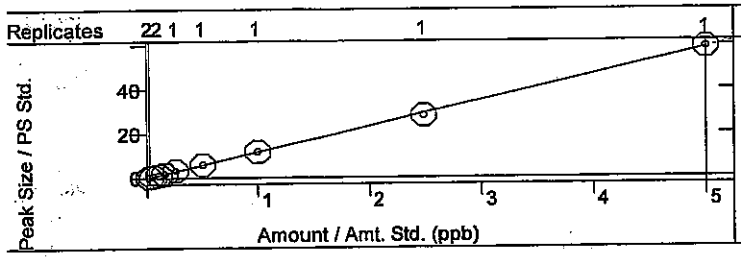
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.634%, Coeff. Det.(r2): 0.999154
y = +5.6338x +0.0224



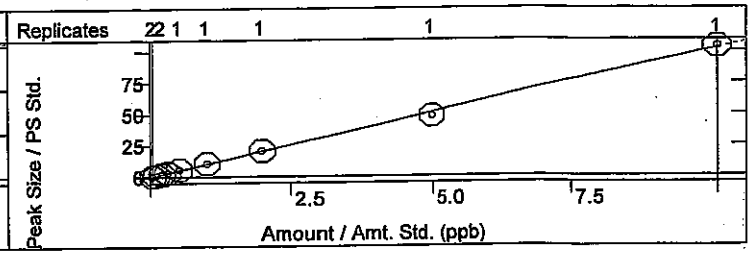
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.22%, Coeff. Det.(r2): 0.998047
y = +3.1481x -0.0258



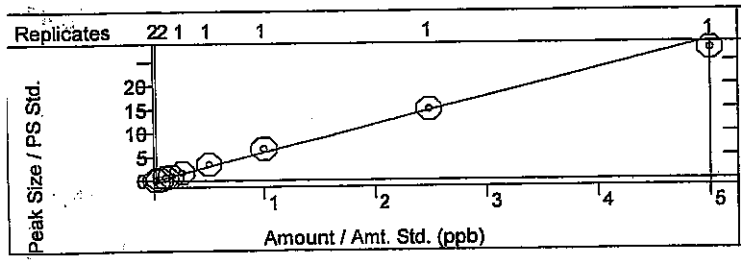
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.088%, Coeff. Det.(r2): 0.999494
y = +11.7081x +0.0625



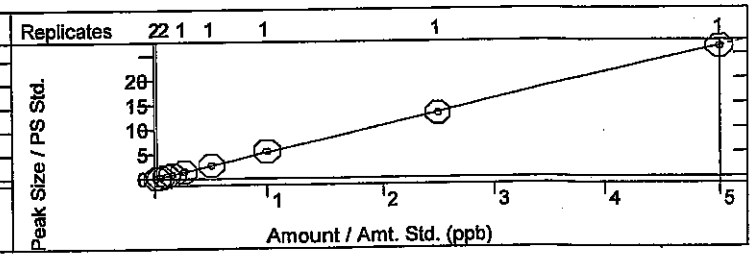
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.207%, Coeff. Det.(r2): 0.998798
y = +10.2159x +0.1080



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.581%, Coeff. Det.(r2): 0.997403
y = +5.8496x +0.0804



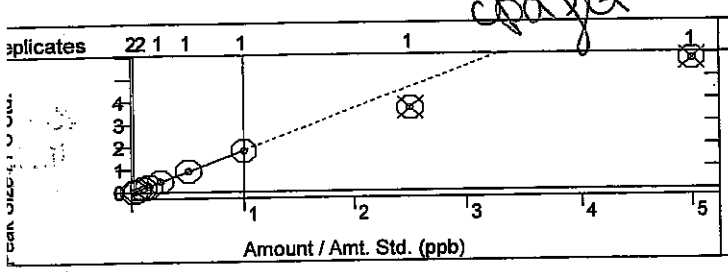
Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.693%, Coeff. Det.(r2): 0.999879
y = +5.3099x +0.0147



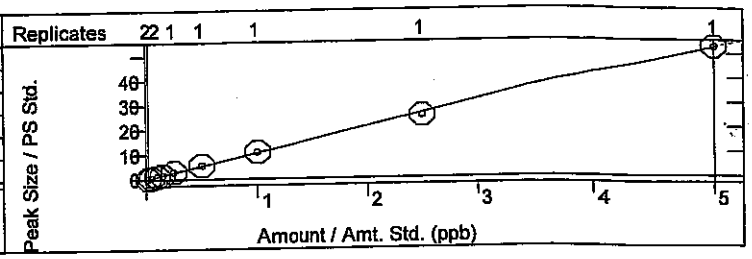
9-8-14 cpd 9-4-14

lethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
ecalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ample List:	N/A	Method Modified:	9/4/2014 11:24 AM
equence:	N/A	Detector:	200-MS Mass Spec
IS Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

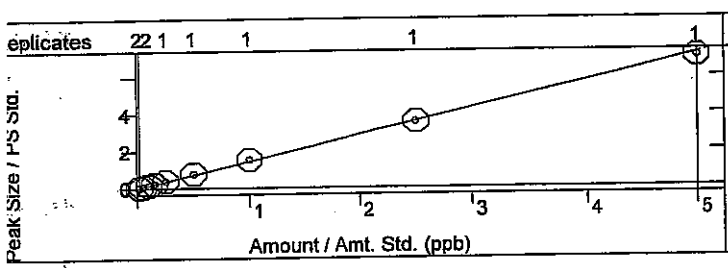
,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.732%, Coeff. Det.(r2): 0.999739
= +1.8403x -0.0045



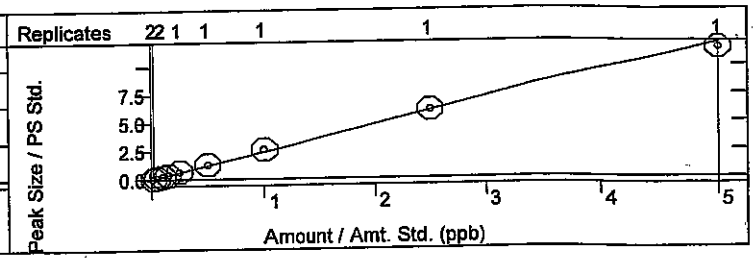
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.815%, Coeff. Det.(r2): 0.999452
y = +10.5405x +0.0557



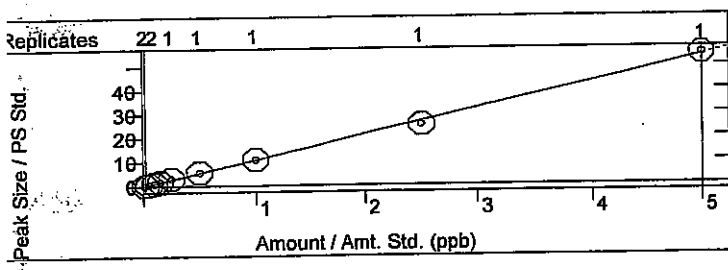
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.087%, Coeff. Det.(r2): 0.999669
= +1.4451x +0.0081



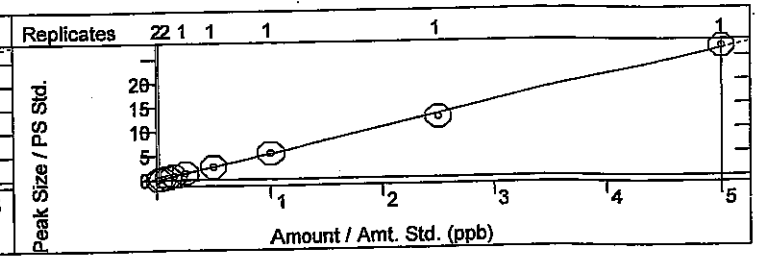
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.998961
y = +2.3996x +0.0158



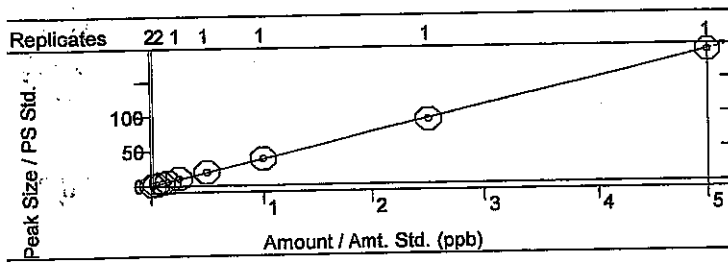
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.892%, Coeff. Det.(r2): 0.998825
y = +10.8045x +0.0550



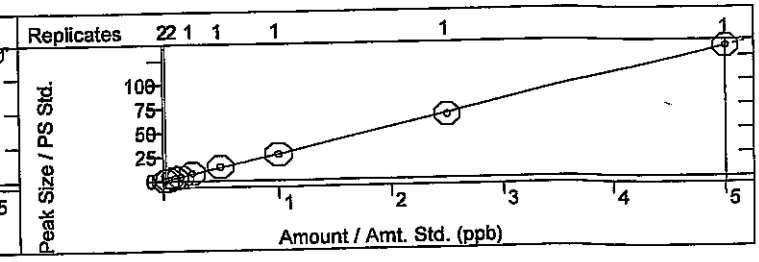
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.899%, Coeff. Det.(r2): 0.998854
y = +5.2942x +8.9042e-5



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.572%, Coeff. Det.(r2): 0.999866
y = +37.9568x +0.1982



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.263%, Coeff. Det.(r2): 0.999778
y = +27.0272x +0.1610

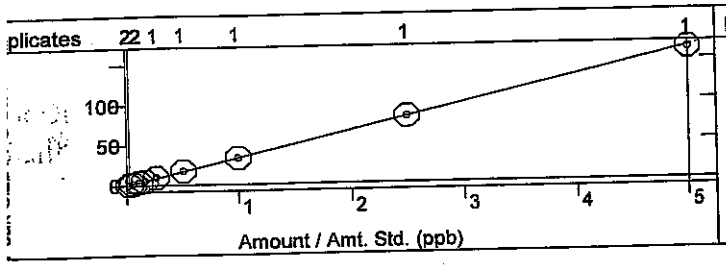


1t Date: 04 Sep 2014 11:24:35 JA 9.8.14 cal 9-4-14

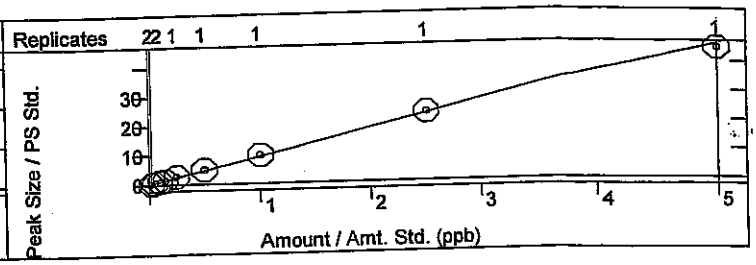
alibration Curves Report

ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ecalc Method:	...0-5035 low.mth	Method Modified:	9/4/2014 11:24 AM
ample List:	N/A	Detector:	200-MS Mass Spec
equence:	N/A	Workstation Version:	Version 7.0.1
S Workstation		Calibration Type:	Internal Standard Analysis
eak Measurement:	Area		

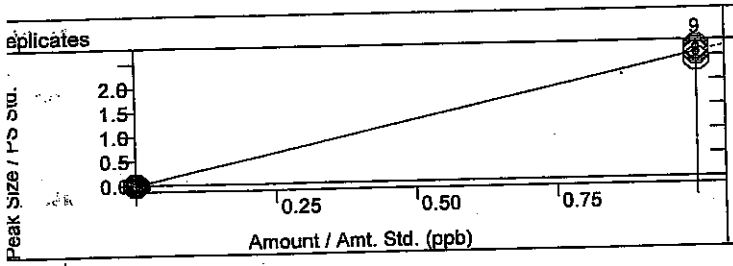
rt-Butylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.579%, Coeff. Det.(r2): 0.999899
= +33.0292x +0.2445



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.757%, Coeff. Det.(r2): 0.999285
y = +9.2502x +0.0802

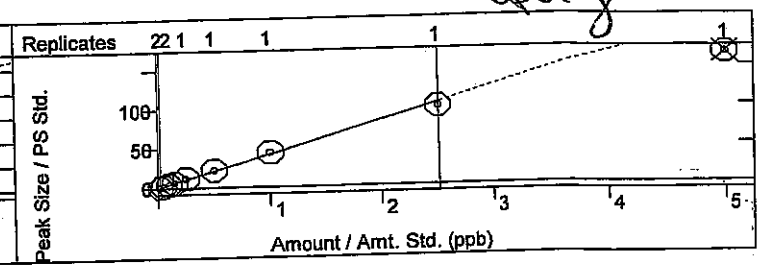


-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.121% Coeff. Det.(r2): 0.991417
= +2.5690x

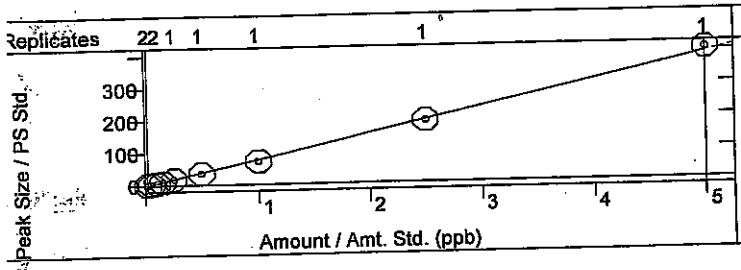


Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.448%, Coeff. Det.(r2): 0.998161
y = +41.9231x +0.3665

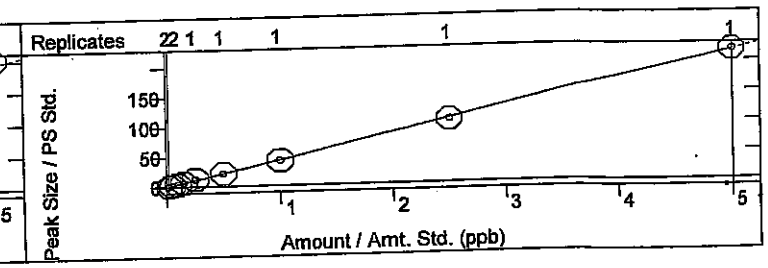
cod fit



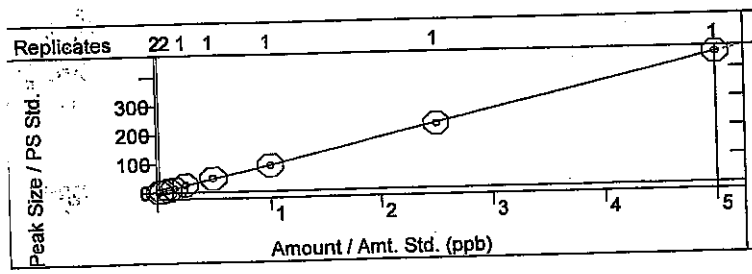
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.802%, Coeff. Det.(r2): 0.999312
y = +78.6326x -0.5475



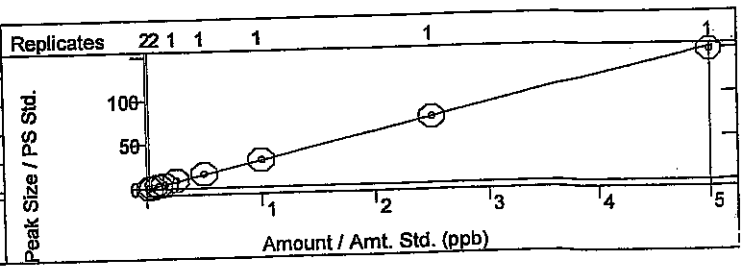
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.172%, Coeff. Det.(r2): 0.999800
y = +43.5086x +0.1223



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.063%, Coeff. Det.(r2): 0.999867
y = +90.5348x +0.2598



4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.217%, Coeff. Det.(r2): 0.999760
y = +30.2770x +0.1271

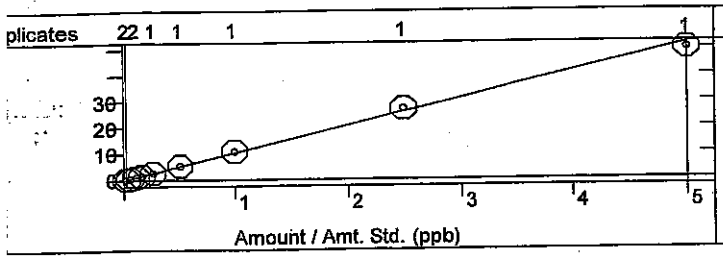


alibration Curves Report

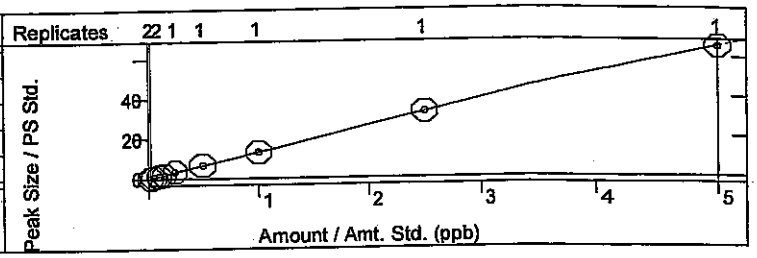
JH 9-8-14 cgg 9-4-14

ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
calc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
mple List:	N/A	Method Modified:	9/4/2014 11:24 AM
quence:	N/A	Detector:	200-MS Mass Spec
S Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

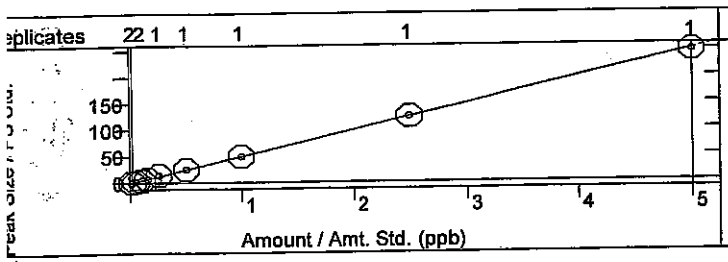
romoform
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.800%, Coeff. Det.(r2): 0.998357
= +10.3966x +0.0185



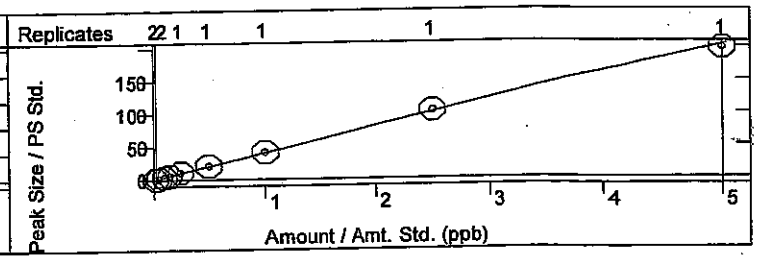
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.650%, Coeff. Det.(r2): 0.999959
y = +13.2051x +0.0167



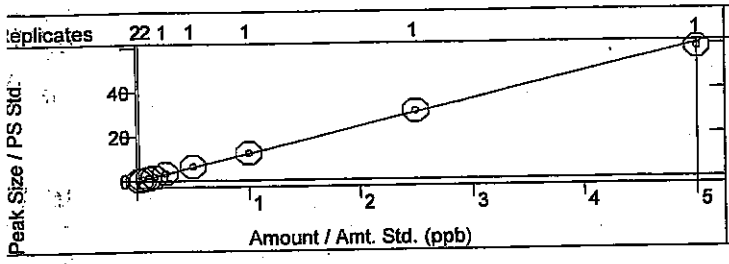
-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.52%, Coeff. Det.(r2): 0.999904
= +50.0584x -0.2464



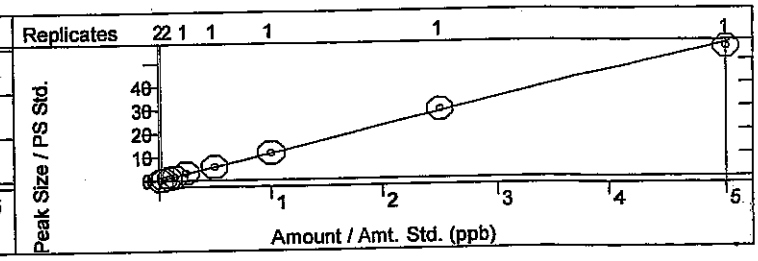
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.625%, Coeff. Det.(r2): 0.999413
y = +40.6854x +0.0721



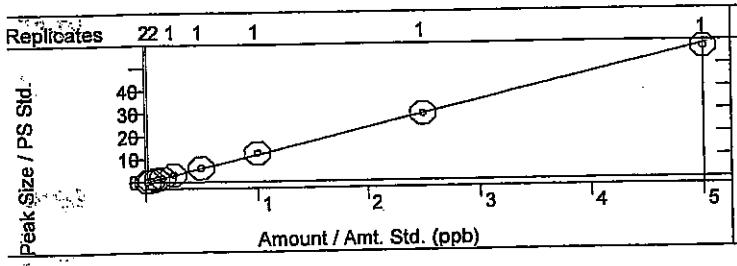
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.814%, Coeff. Det.(r2): 0.999359
y = +12.0551x +0.0695



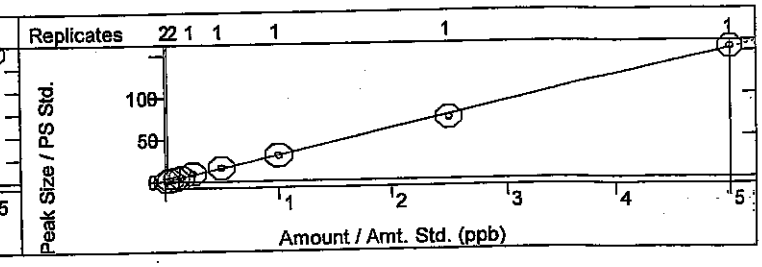
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.431%, Coeff. Det.(r2): 0.999158
y = +11.4181x +0.0101



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.445%, Coeff. Det.(r2): 0.999664
y = +11.6752x +0.0363



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.988%, Coeff. Det.(r2): 0.999172
y = +30.6810x +0.2157



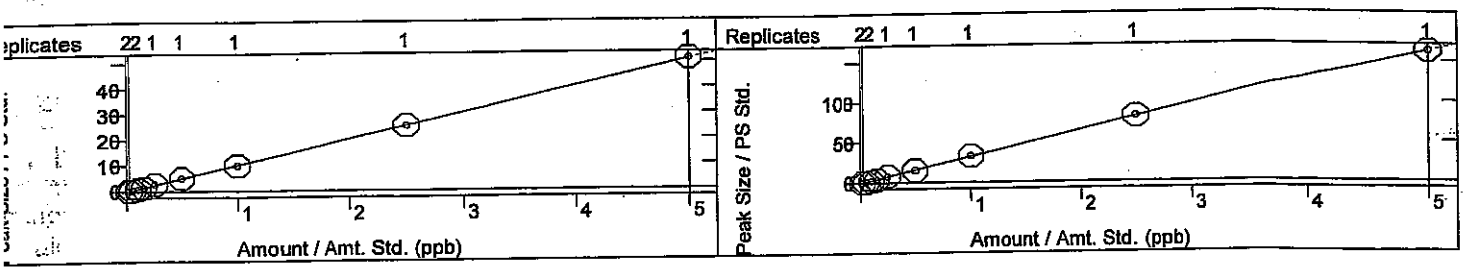
Calibration Curves Report

J 119-8M CCJ 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

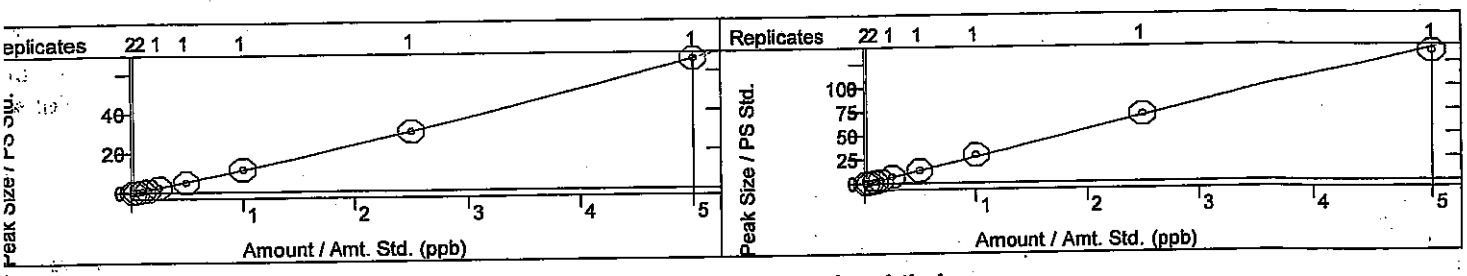
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.203%, Coeff. Det.(r2): 0.999938
y = +10.2100x -0.0514

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.07%, Coeff. Det.(r2): 0.999925
y = +32.7507x -0.5342



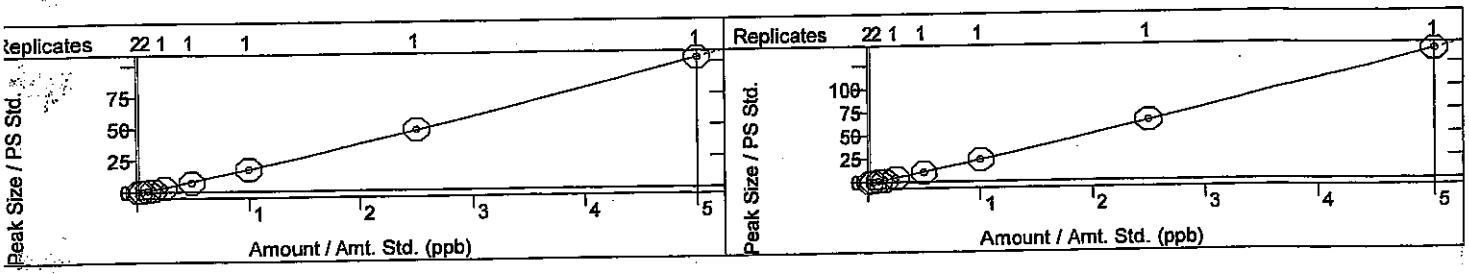
Naphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 34.14%, Coeff. Det.(r2): 0.999925
y = +0.4166x2 +11.2560x -0.3990

1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.68%, Coeff. Det.(r2): 0.999155
y = +27.9638x -0.4212

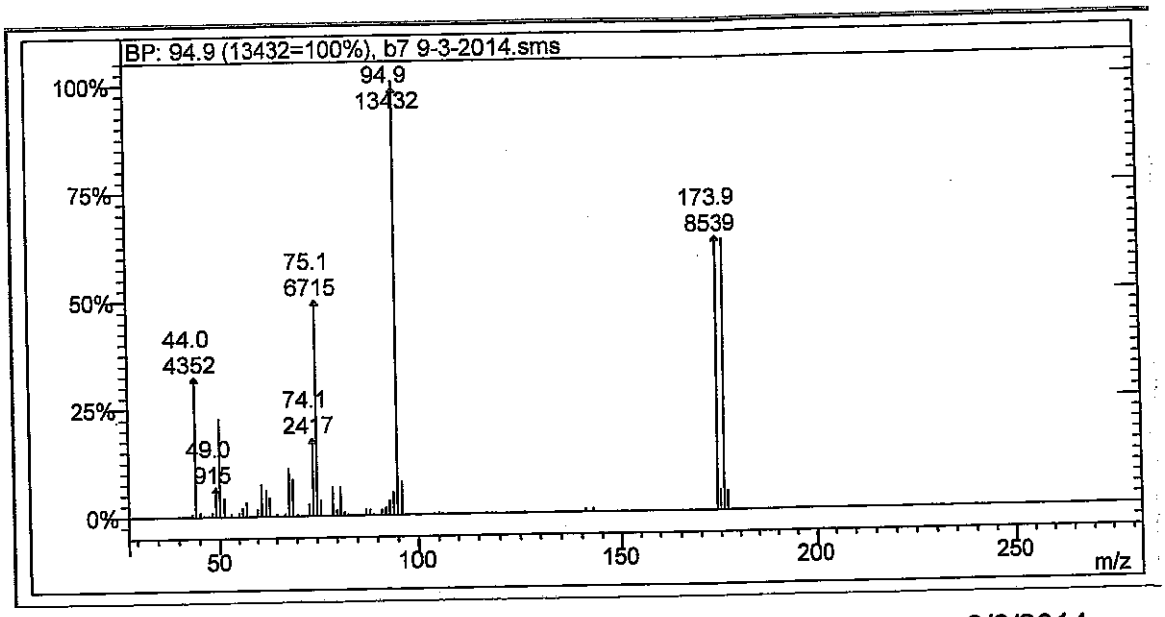


2-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 49.58%, Coeff. Det.(r2): 0.999762
y = +0.5470x2 +18.1464x -1.0873

1-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 45.07%, Coeff. Det.(r2): 0.999872
y = +0.7696x2 +24.2810x -1.2688



BFB 8260B Report



Lab File ID b7 9-3-2014.sms

Injection Date: 9/3/2014

Injection Time: 12:32

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	22.74	PASS
75	30-60% of m/z 95	49.99	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.68	PASS
173	<2% of m/z 174	0.09	PASS
174	>50% of m/z 95	63.57	PASS
175	5-9% of m/z 174	7.44	PASS
176	>95% but <101% of m/z 174	99.07	PASS
177	5-9% of m/z 176	7.01	PASS

9-11-14

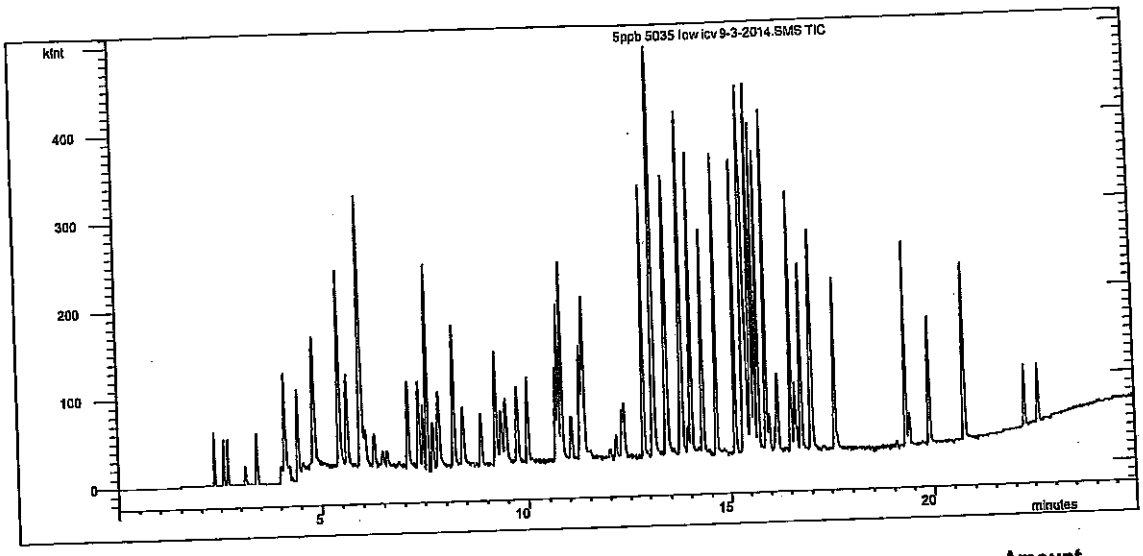
JR 9.8.14

8260B/624 Report

Sample Name: 5ppb 5035 low icv **Operator Name:** Rene Aguilera **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\090314m 8260-5035 Low.mth **Inj. Notes:** V-54-0480 **Acquisition Date:** 9/3/2014 6:46:58 PM

Calculation Date: 9/4/2014 11:48:50 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.094	696	Identified	64075	20.000
Benzene-d5-, chloro-	13.403	1373	Identified	88987	20.000
1,4-Dichlorobenzene-d4	16.985	1752	Identified	33984	20.000
Dichlorodifluoromethane	2.336	183	Identified	44145	6.116
Chloromethane	2.579	209	Identified	203519	5.138
Vinyl chloride	2.689	221	Identified	240349	5.525
Chloroethane	3.119	267	Identified	39337	5.162
Bromomethane	3.124	268	Identified	42468	5.922
Trichlorofluoromethane	3.410	299	Identified	50341	4.489
1,1-Dichloroethene	4.114	376	Identified	121291	4.651
Acetone	4.292	395	Identified	94864	9.018
Carbon disulfide	4.430	410	Identified	219569	11.642
Iodomethane	4.557	423	Identified	143107	6.788
Methyl tert-butyl ether (MTBE)	4.827	452	Identified	233104	10.766
Isopropyl ether	5.434	517	Identified	1.128E6	11.564
tert-Butyl alcohol	5.498	524	Identified	291430	95.414
trans-1,2-DCE	5.627	538	Identified	231551	4.944
tert-Butyl ethyl ether	5.943	572	Identified	3.707E6	11.127
Methylene Chloride	5.977	576	Identified	159997	2.755
1,1-Dichloroethane	6.066	585	Identified	59972	3.531
Vinyl acetate	6.271	608	Failed SPL	692021	16.681
2,2-Dichloropropane	6.481	630	Identified	61068	6.593
2-Butanone	6.587	641	Identified	241544	11.473
1,1,1-Trichloroethane	7.357	725	Identified	86526	5.054

09-4-14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.469	736	Identified	124609	4.781
tert-Amyl methyl ether	7.566	747	Identified	1.022E6	10.766
Carbon Tetrachloride	7.688	759	Identified	41066	5.024
cis-1,2-DCE	7.835	775	Identified	44594	4.841
Benzene	8.202	814	Identified	162206	4.929
Chloroform	8.430	839	Identified	85312	4.824
Bromochloromethane	8.847	884	Identified	67728	5.387
Trichloroethene (TCE)	9.215	924	Identified	268227	5.056
Dibromofluoromethane	9.243	927	Identified	197047	19.750
1,2-Dichloroethane-d4	9.357	939	Identified	806399	20.504
1,2-Dichloroethane (EDC)	9.463	950	Identified	1.080E6	4.998
1,2-Dichloropropane	9.741	979	Identified	336108	5.126
4-Methyl-2-pentanone	9.991	1007	Identified	242089	11.324
Toluene-d8	10.740	1088	Identified	167927	20.746
Toluene	10.822	1096	Identified	244788	5.390
2-Chloroethyl vinyl ether	11.056	1121	Identified	271596	10.776
cis-1,3-dichloropropene	11.269	1144	Identified	322310	4.495
Bromodichloromethane	11.279	1145	Identified	72426	5.384
2-Hexanone	11.327	1151	Identified	622026	11.409
Tetrachloroethene (PCE)	11.361	1154	Identified	71825	5.392
Dibromomethane	11.367	1155	Identified	125581	5.345
1,3-Dichloropropane	12.310	1256	Identified	137755	5.416
trans-1,3-dichloropropene	12.364	1262	Identified	65218	4.820
Ethylbenzene	12.850	1314	Identified	290619	5.472
mp-Xylenes	13.100	1341	Identified	497121	10.725
1,1,2-Trichloroethane	13.093	1340	Identified	158919	5.831
Chlorobenzene	13.427	1375	Identified	124752	5.225
1,2-Dibromoethane (EDB)	13.409	1374	Identified	39064	4.820
o-Xylene	13.771	1412	Identified	259980	5.438
Dibromochloromethane	13.740	1408	Identified	36901	5.627
1,1,1,2-Tetrachloroethane	13.791	1413	Identified	60164	5.503
Isopropylbenzene	14.012	1437	Identified	266957	5.451
Styrene	14.280	1465	Identified	124324	5.277
n-Propylbenzene	14.636	1503	Identified	332633	5.053
1,3,5-Trimethylbenzene	15.115	1555	Identified	238490	5.074
tert-Butylbenzene	15.325	1577	Identified	294685	5.103
2-Chlorotoluene	15.363	1581	Failed	84054	5.174
4-Bromofluorobenzene	15.410	1585	Identified	84416	19.339
Bromobenzene	15.506	1596	Identified	377595	5.126
4-Chlorotoluene	15.524	1597	Identified	592052	4.570
sec-Butylbenzene	15.602	1606	Identified	381023	5.098
1,2,4-Trimethylbenzene	15.693	1615	Identified	781644	5.024
4-Isopropyltoluene	15.891	1636	Identified	284833	5.453
Bromoform	15.970	1644	Identified	87775	4.933
1,2,3-Trichloropropane	16.176	1666	Identified	114968	5.099
n-Butylbenzene	16.504	1701	Identified	414740	4.974
1,1,2,2-Tetrachloroethane	16.599	1711	Identified	358532	5.151
1,3-Dichlorobenzene	16.753	1728	Identified	105023	5.012
1,4-Dichlorobenzene	17.014	1755	Identified	98363	5.052
1,2-Dichlorobenzene	17.596	1818	Identified	99352	4.946

9-4-14

Operator: Rene Aguilera Inj. Notes: V-54-0480 5ppb 5035 low icv 9-3-2014.SMS

9/4/2014 11:49

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.311	2003	Identified	282641	5.281
1,2-Dibromo-3-chloropropane	19.401	2012	Identified	84313	4.961
1,2,4-Trichlorobenzene	19.895	2065	Identified	242994	4.693
Naphthalene	20.749	2156	Identified	74284	4.554
1,2,3-Trichlorobenzene	20.767	2158	Identified	211354	4.749
2-Methylnaphthalene	22.249	2313	Identified	147441	5.927
1-Methylnaphthalene	22.603	2351	Identified	190487	5.612

****
Revision Log
****

9/3/2014 7:11 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 8:18 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:48 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409046**
Date Reported: ~~9-5-14~~ 9-5-14

JC

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-001
Client Sample ID: FFOR-CF-0054
Collection Date: 9/2/2014 8:39:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Aniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Benz(a)anthracene	ACTL 0.10	0.22	J	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Fluorene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Isophorone	ND	0.54	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Phenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Pyrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Pyridine	ND	0.54	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:15:56 PM
Surr: 2-Fluorophenol	65.5	21-111	%REC	1	15084	9/4/2014 3:15:56 PM
Surr: Phenol-d5	65.9	23.1-117	%REC	1	15084	9/4/2014 3:15:56 PM
Surr: 2,4,6-Tribromophenol	37.7	22.7-88.9	%REC	1	15084	9/4/2014 3:15:56 PM
Surr: Nitrobenzene-d5	67.4	24.5-126	%REC	1	15084	9/4/2014 3:15:56 PM
Surr: 2-Fluorobiphenyl	74.9	21.2-129	%REC	1	15084	9/4/2014 3:15:56 PM
Surr: 4-Terphenyl-d14	68.8	39.4-107	%REC	1	15084	9/4/2014 3:15:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-002
Client Sample ID: FFOR-CF-0055
Collection Date: 9/2/2014 8:39:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Aniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Benz(a)anthracene	ACTL 0.10	0.22	J	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Di-n-butyl phthalate	0.053	0.55	J	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Fluorene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Isophorone	ND	0.55	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Phenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Pyrene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Pyridine	ND	0.55	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15084	9/4/2014 3:45:27 PM
Surr: 2-Fluorophenol	44.0	21-111	%REC	1	15084	9/4/2014 3:45:27 PM
Surr: Phenol-d5	42.7	23.1-117	%REC	1	15084	9/4/2014 3:45:27 PM
Surr: 2,4,6-Tribromophenol	25.4	22.7-88.9	%REC	1	15084	9/4/2014 3:45:27 PM
Surr: Nitrobenzene-d5	48.1	24.5-126	%REC	1	15084	9/4/2014 3:45:27 PM
Surr: 2-Fluorobiphenyl	50.9	21.2-129	%REC	1	15084	9/4/2014 3:45:27 PM
Surr: 4-Terphenyl-d14	67.6	39.4-107	%REC	1	15084	9/4/2014 3:45:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-003 **Collection Date:** 9/2/2014 11:03:00 AM
Client Sample ID: FFOR-CF-0056 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Aniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Anthracene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Benz(a)anthracene	0.14	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Benzo(a)pyrene	0.22	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Benzo(b)fluoranthene	0.28	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Benzo(g,h,i)perylene	0.13	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Benzo(k)fluoranthene	0.090	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Chrysene	0.13	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Di-n-butyl phthalate	0.049	0.53	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.18	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Fluorene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Indeno(1,2,3-cd)pyrene	0.15	0.21	J	mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Isophorone	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Methylphenol	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Naphthalene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Nitrobenzene	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Phenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Pyrene	0.53	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Pyridine	ND	0.53		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 4:14:55 PM
Surr: 2-Fluorophenol	68.2	21-111		%REC	1	15084	9/4/2014 4:14:55 PM
Surr: Phenol-d5	73.3	23.1-117		%REC	1	15084	9/4/2014 4:14:55 PM
Surr: 2,4,6-Tribromophenol	58.6	22.7-88.9		%REC	1	15084	9/4/2014 4:14:55 PM
Surr: Nitrobenzene-d5	78.1	24.5-126		%REC	1	15084	9/4/2014 4:14:55 PM
Surr: 2-Fluorobiphenyl	81.9	21.2-129		%REC	1	15084	9/4/2014 4:14:55 PM
Surr: 4-Terphenyl-d14	75.4	39.4-107		%REC	1	15084	9/4/2014 4:14:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-004
Client Sample ID: FFOR-CF-0057
Collection Date: 9/2/2014 3:04:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Aniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Benz(a)anthracene	0.11	0.22	J	mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Benzo(b)fluoranthene	0.083	0.22	J	mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Chrysene	0.065	0.22	J	mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Di-n-butyl phthalate	0.054	0.56	J	mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Fluorene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Indeno(1,2,3-cd)pyrene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Isophorone	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Naphthalene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Nitroaniline	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Nitrobenzene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
4-Nitrophenol	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Pentachlorophenol	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Phenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Pyrene	0.096	0.22	J	mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Pyridine	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 4:44:20 PM
Surr: 2-Fluorophenol	63.0	21-111		%REC	1	15084	9/4/2014 4:44:20 PM
Surr: Phenol-d5	63.8	23.1-117		%REC	1	15084	9/4/2014 4:44:20 PM
Surr: 2,4,6-Tribromophenol	40.1	22.7-88.9		%REC	1	15084	9/4/2014 4:44:20 PM
Surr: Nitrobenzene-d5	64.0	24.5-126		%REC	1	15084	9/4/2014 4:44:20 PM
Surr: 2-Fluorobiphenyl	68.4	21.2-129		%REC	1	15084	9/4/2014 4:44:20 PM
Surr: 4-Terphenyl-d14	67.6	39.4-107		%REC	1	15084	9/4/2014 4:44:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Aniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Anthracene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Benz(a)anthracene	0.10	0.21	J	mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Benzo(b)fluoranthene	0.13	0.21	J	mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Bis(2-ethylhexyl)phthalate	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Chloro-3-methylphenol	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Chloroaniline	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Chrysene	0.067	0.21	J	mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Di-n-butyl phthalate	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4-Dimethylphenol	ND	0.31		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4,6-Dinitro-2-methylphenol	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4-Dinitrophenol	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,6-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Fluorene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Indeno(1,2,3-cd)pyrene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Isophorone	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Methylphenol	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Naphthalene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Nitrobenzene	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Phenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Pyrene	0.16	0.21	J	mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Pyridine	ND	0.52		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15084	9/4/2014 5:13:42 PM
Surr: 2-Fluorophenol	65.0	21-111		%REC	1	15084	9/4/2014 5:13:42 PM
Surr: Phenol-d5	64.3	23.1-117		%REC	1	15084	9/4/2014 5:13:42 PM
Surr: 2,4,6-Tribromophenol	40.9	22.7-88.9		%REC	1	15084	9/4/2014 5:13:42 PM
Surr: Nitrobenzene-d5	67.8	24.5-126		%REC	1	15084	9/4/2014 5:13:42 PM
Surr: 2-Fluorobiphenyl	71.2	21.2-129		%REC	1	15084	9/4/2014 5:13:42 PM
Surr: 4-Terphenyl-d14	66.4	39.4-107		%REC	1	15084	9/4/2014 5:13:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-006 **Collection Date:** 9/2/2014 3:15:00 PM
Client Sample ID: FFOR-CF-0059 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Aniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Benz(a)anthracene	0.18	0.22	J	mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Benzo(a)pyrene	0.29	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Benzo(b)fluoranthene	0.70	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Benzo(g,h,i)perylene	0.20	0.22	J	mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Chrysene	0.29	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Dibenz(a,h)anthracene	0.086	0.22	J	mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Dibenzofuran	0.32	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	0.25	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Fluorene	0.13	0.22	J	mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Indeno(1,2,3-cd)pyrene	0.26	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Isophorone	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2-Methylnaphthalene	13	1.1		mg/Kg-dry	5	15084	9/5/2014 12:10:34 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Naphthalene	6.0	1.1		mg/Kg-dry	5	15084	9/5/2014 12:10:34 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
4-Nitrophenol	1.4	0.28		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Phenanthrene	0.052	0.22	J	mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Phenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Pyrene	0.77	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Pyridine	ND	0.55		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15084	9/4/2014 5:42:59 PM
Surr: 2-Fluorophenol	70.2	21-111		%REC	1	15084	9/4/2014 5:42:59 PM
Surr: Phenol-d5	75.4	23.1-117		%REC	1	15084	9/4/2014 5:42:59 PM
Surr: 2,4,6-Tribromophenol	82.6	22.7-88.9		%REC	1	15084	9/4/2014 5:42:59 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15084	9/4/2014 5:42:59 PM
Surr: 2-Fluorobiphenyl	67.6	21.2-129		%REC	1	15084	9/4/2014 5:42:59 PM
Surr: 4-Terphenyl-d14	77.1	39.4-107		%REC	1	15084	9/4/2014 5:42:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-007
Client Sample ID: FFOR-CF-0060
Collection Date: 9/2/2014 3:58:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/05/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Aniline	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Anthracene	0.088	0.23	J	mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Benz(a)anthracene	0.28	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Benzo(a)pyrene	0.32	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Benzo(b)fluoranthene	0.75	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Benzo(g,h,i)perylene	0.17	0.23	J	mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Carbazole	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Chrysene	0.41	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Di-n-butyl phthalate	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Dibenz(a,h)anthracene	0.072	0.23	J	mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Dibenzofuran	0.24	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Comment: DUE 09/05/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.67	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Fluorene	0.13	0.23	J	mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Hexachloroethane	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Indeno(1,2,3-cd)pyrene	0.21	0.23	J	mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Isophorone	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2-Methylnaphthalene	8.0	0.45		mg/Kg-dry	2	15084	9/5/2014 12:39:42 PM
2-Methylphenol	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
3+4-Methylphenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
N-Nitrosodi-n-propylamine	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Naphthalene	3.3	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Nitroaniline	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Nitrobenzene	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
4-Nitrophenol	1.2	0.28		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Pentachlorophenol	ND	0.45		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Phenanthrene	0.30	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Phenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Pyrene	1.0	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Pyridine	ND	0.56		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	15084	9/4/2014 6:12:11 PM
Surr: 2-Fluorophenol	76.7	21-111		%REC	1	15084	9/4/2014 6:12:11 PM
Surr: Phenol-d5	77.9	23.1-117		%REC	1	15084	9/4/2014 6:12:11 PM
Surr: 2,4,6-Tribromophenol	81.5	22.7-88.9		%REC	1	15084	9/4/2014 6:12:11 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15084	9/4/2014 6:12:11 PM
Surr: 2-Fluorobiphenyl	73.4	21.2-129		%REC	1	15084	9/4/2014 6:12:11 PM
Surr: 4-Terphenyl-d14	77.5	39.4-107		%REC	1	15084	9/4/2014 6:12:11 PM

NSE dam 9/5/14

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

ST8310-14004	100ppm B(e)p 450ppm N-Hex	SAMP	25595	Container-01 of 01	100 5<9.3	µL

Reviewed By: dam 9/4/14

PREP BATCH REPORT

Prep Batch ID: 15084 Prep Code: 8270SOX_PR Method No: 3540 Technician: Lynda Watson

Initial Temp: °C Final Temp °C

Prep Factor Units: g

Extraction Method 3540

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15084		Soil			30	0	0	1	0.033	9/3/2014	
LCS-15084		Soil			30	0	0	1	0.033	9/3/2014	
1409046-001A	FFOR-CF-0054	MeOH (Soil)			30.04	0	0	1	0.033	9/3/2014	
1409046-002A	FFOR-CF-0055	MeOH (Soil)			29.92	0	0	1	0.033	9/3/2014	
1409046-003A	FFOR-CF-0056	MeOH (Soil)			30.13	0	0	1	0.033	9/3/2014	
1409046-004A	FFOR-CF-0057	MeOH (Soil)			30.21	0	0	1	0.033	9/3/2014	
1409046-005A	FFOR-CF-0058	MeOH (Soil)			30.11	0	0	1	0.033	9/3/2014	
1409046-006A	FFOR-CF-0059	MeOH (Soil)			29.83	0	0	1	0.033	9/3/2014	
1409046-007A	FFOR-CF-0060	MeOH (Soil)			30.10	0	0	1	0.033	9/3/2014	
1409046-007AMS		MeOH (Soil)			30.09	0	0	1	0.033	9/3/2014	
1409046-007AMSD		MeOH (Soil)			30.01	0	0	1	0.033	9/3/2014	

dam 9/4

9.4.14 DAM 4736

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 5<9.3	µL
ST8270-14029	8270 BNA Surrogate	SAMP	25746	Container-01 of 01	500	µL
ST8270-14031	8270 Internal Standard	SAMP	26282	Container-01 of 01	20 dam 9/4	µL

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'arian Star Workstation - 8400 SampleList Fri Sep 05 08:10:38 2014

ampleList: C:\VarianWS\090414.smp

reated: Thu Sep 04 08:34:58 2014
lodified: Thu Sep 04 20:07:08 2014

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Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume	
1	dftpp tune	1	below	0	1.0	
	Notes sv110-0601					
2	40ppm ccv	1	below	1	1.0	
	Notes sv110-0593					
3	10ppm ll ccv	1	below	2	1.0	
	Notes sv110-0562					
4	1408f14-001a	1	below	3	1.0	
	Notes x1 tclp					
5	1408f14-002a	1	below	4	1.0	
	Notes x1 tclp					
6	1408f15-001a	1	below	5	1.0	
	Notes x1 tclp					
7	1408f15-002a	1	below	6	1.0	
	Notes x1 tclp					
8	1408f15-003a	1	below	7	1.0	
	Notes x1 tclp					
9	1408f15-004a	1	below	8	1.0	
	Notes x1 tclp					
10	1408f15-005a	1	below	9	1.0	
	Notes x1 tclp					
11	1408f15-006a	1	below	10	1.0	
	Notes x1 tclp					
12	mb-15084	1	below	11	1.0	
	Notes x1 s					
13	lcs-1508414	1	below	12	1.0	
	Notes x1 s					
14	1409046-001a	1	below	13	1.0	
	Notes x1 s					
15	1409046-002a	1	below	14	1.0	
	Notes x1 s					
16	1409046-003a	1	below	15	1.0	
	Notes x1 s					
17	1409046-004a	1	below	16	1.0	
	Notes x1 s					
18	1409046-005a	1	below	17	1.0	
	Notes x1 s					
19	1409046-006a	1	below	18	1.0	R5
	Notes x1 s					
20	1409046-007a	1	below	19	1.0	R2
	Notes x1 s					
21	1409046-007ams	1	below	20	1.0	
	Notes x1 s					
22	1409046-007amsd	1	below	21	1.0	
	Notes x1 s					
23	1408f16-002a	1	below	22	1.0	R20
	Notes r5 aq					
24						

RS — to confirm

dam 9/5/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\090414.rcl.

JV 9.5.14

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

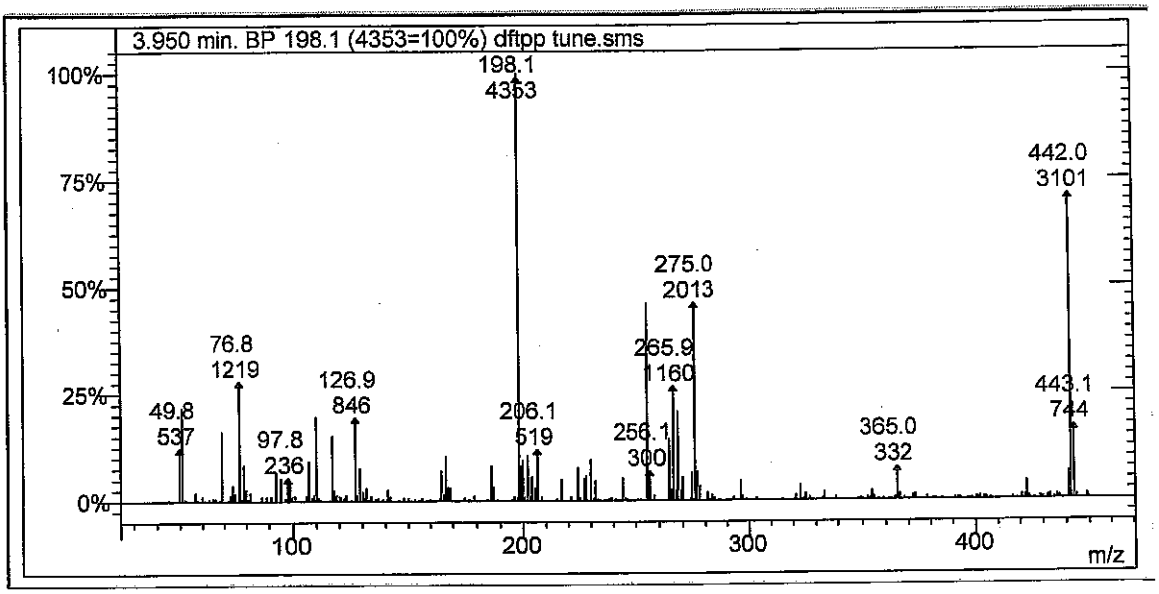
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/4/2014

Injection Time: 8:37

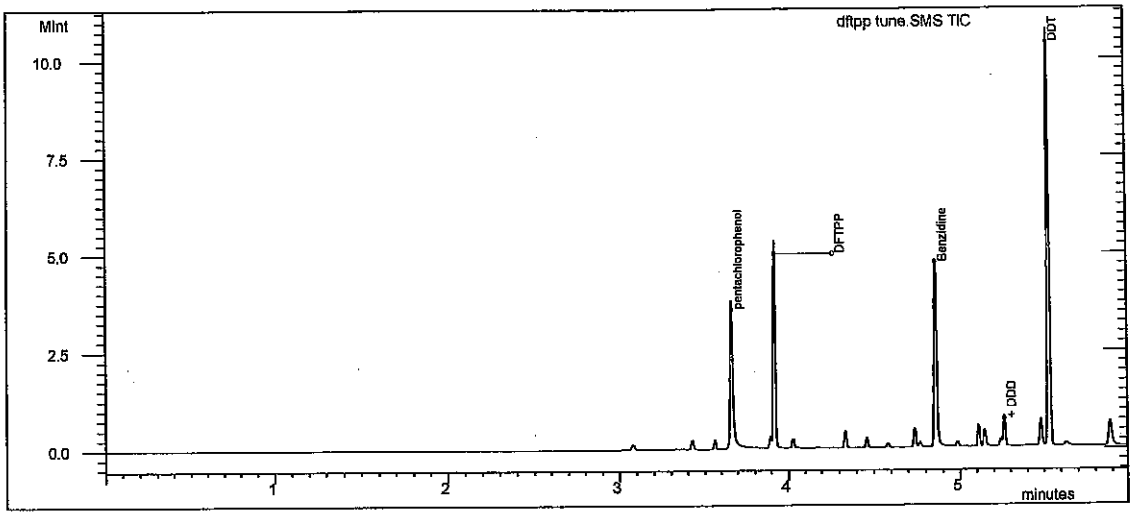
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	21.69	PASS
68	<2% of m/z 69	1.42	PASS
69	Present	16.20	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	19.43	PASS
197	<2% of m/z 198	0.67	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.25	PASS
275	10-60% of base peak	46.24	PASS
365	>1% of base peak	7.63	PASS
441	Present and <m/z 443	37.90	PASS
442	>50% of m/z 198	71.24	PASS
443	15-24% of m/z 442	23.99	PASS

dam 9/5/14

JC 9.5.14

Degradation Report

Acquisition Date:	9/4/2014 8:37:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.534	2.831E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.265	190485	5
DDE	4.984	12075	6

% Degradation of **DDT : =** 6.678

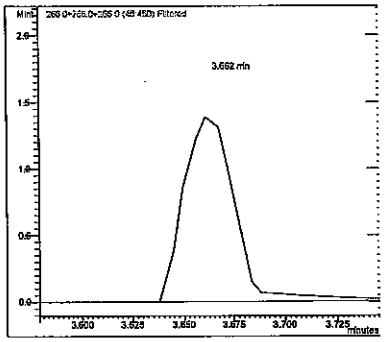
dam 9/5/14

JC 9.5.14

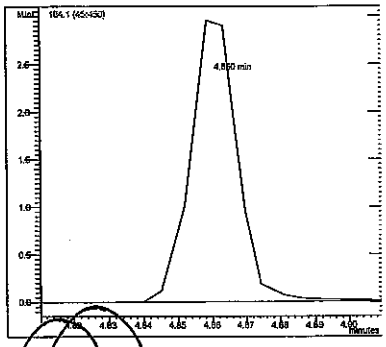
Tailing and Gaussian Factor Report

Acquisition Date:	9/4/2014 8:37:36 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.662 Area = 2.495E6



Benzidine
RT = 4.86 Area = 2.852E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.662	1.504	0.814
Benzidine	4.860	1.279	0.969

#	Compound Name	RT	Area
1	pentachlorophenol	3.662	2.495E6
3	Benzidine	4.860	2.852E6

dam 9/5/14

JC 9.5.14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/4/2014 Time: 9:03

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\40ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.580	0.050	40.00	46.04	-15.1	40.0	PASS	PASS
Pyridine	11.550	0.050	40.00	50.57	-26.4	40.0	PASS	PASS
2-Fluorophenol	1.215	0.050	40.00	42.36	-5.9	40.0	PASS	PASS
Phenol-d5	1.136	0.050	40.00	41.67	-4.2	40.0	PASS	PASS
Phenol	1.186	0.050	40.00	38.52	3.7	20.0	PASS	PASS
Aniline	3.372	0.050	40.00	33.01	17.5	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.952	0.050	40.00	38.27	4.3	40.0	PASS	PASS
2-Chlorophenol	1.164	0.050	40.00	38.93	2.7	40.0	PASS	PASS
1,3-Dichlorobenzene	1.457	0.050	40.00	38.45	3.9	40.0	PASS	PASS
1,4-Dichlorobenzene	1.445	0.050	40.00	40.36	-0.9	20.0	PASS	PASS
Benzyl alcohol	1.129	0.050	40.00	39.83	0.4	40.0	PASS	PASS
1,2-Dichlorobenzene	1.412	0.050	40.00	39.93	0.2	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	40.00	39.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.301	0.050	40.00	37.08	7.3	40.0	PASS	PASS
3+4-Methylphenol	1.093	0.050	40.00	35.10	12.3	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	40.00	38.47	3.8	40.0	PASS	PASS
Hexachloroethane	4.638	0.050	40.00	40.01	0.0	40.0	PASS	PASS
Nitrobenzene-d5	0.316	0.050	40.00	40.64	-1.6	40.0	PASS	PASS
Nitrobenzene	0.323	0.050	40.00	40.29	-0.7	40.0	PASS	PASS
Isophorone	0.657	0.050	40.00	44.86	-12.2	40.0	PASS	PASS
2-Nitrophenol	0.320	0.050	40.00	41.19	-3.0	20.0	PASS	PASS
2,4-Dimethylphenol	0.370	0.050	40.00	40.57	-1.4	40.0	PASS	PASS
Benzoic acid	2.187	0.050	40.00	41.85	-4.6	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.398	0.050	40.00	44.01	-10.0	40.0	PASS	PASS
2,4-Dichlorophenol	0.354	0.050	40.00	40.06	-0.1	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.326	0.050	40.00	39.76	0.6	40.0	PASS	PASS
Naphthalene	0.876	0.050	40.00	42.19	-5.5	40.0	PASS	PASS
4-Chloroaniline	0.374	0.050	40.00	39.14	2.1	40.0	PASS	PASS
Hexachlorobutadiene	0.603	0.050	40.00	36.16	9.6	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.419	0.050	40.00	39.94	0.1	20.0	PASS	PASS
2-Methylnaphthalene	0.226	0.050	40.00	35.83	10.4	40.0	PASS	PASS
1-Methylnaphthalene	0.222	0.050	40.00	34.49	13.8	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.361	0.050	40.00	28.60	28.5	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.299	0.050	40.00	33.68	15.8	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.298	0.050	40.00	35.91	10.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.426	0.050	40.00	37.42	6.5	40.0	PASS	PASS

dam 9/5/14

JC 9.5.14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.520	0.050	40.00	38.94	2.7	40.0	PASS	PASS
2-Nitroaniline	1.077	0.050	40.00	38.63	3.4	40.0	PASS	PASS
Dimethyl phthalate	2.893	0.050	40.00	40.16	-0.4	40.0	PASS	PASS
2,6-Dinitrotoluene	0.681	0.050	40.00	39.48	1.3	40.0	PASS	PASS
Acenaphthylene	1.853	0.050	40.00	38.05	4.9	40.0	PASS	PASS
3-Nitroaniline	1.035	0.050	40.00	38.11	4.7	40.0	PASS	PASS
Acenaphthene	1.173	0.050	40.00	37.14	7.1	20.0	PASS	PASS
2,4-Dinitrophenol	2.124	0.050	40.00	43.58	-8.9	40.0	PASS	PASS
4-Nitrophenol	0.187	0.050	40.00	38.98	2.6	40.0	PASS	PASS
Dibenzofuran	0.740	0.050	40.00	32.30	19.2	40.0	PASS	PASS
2,4-Dinitrotoluene	0.331	0.050	40.00	35.85	10.4	40.0	PASS	PASS
Diethyl phthalate	2.266	0.050	40.00	35.17	12.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.624	0.050	40.00	29.31	26.7	40.0	PASS	PASS
Fluorene	2.231	0.050	40.00	34.54	13.6	40.0	PASS	PASS
4-Nitroaniline	1.780	0.050	40.00	37.05	7.4	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.603	0.050	40.00	53.85	-34.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.688	0.050	40.00	41.61	-4.0	20.0	PASS	PASS
Azobenzene	1.018	0.050	40.00	43.36	-8.4	40.0	PASS	PASS
2,4,6-Tribromophenol	1.693	0.050	40.00	40.96	-2.4	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.510	0.050	40.00	39.89	0.3	40.0	PASS	PASS
Hexachlorobenzene	0.518	0.050	40.00	37.39	6.5	40.0	PASS	PASS
Pentachlorophenol	1.347	0.050	40.00	39.21	2.0	20.0	PASS	PASS
Phenanthrene	0.996	0.050	40.00	41.41	-3.5	40.0	PASS	PASS
Anthracene	1.036	0.050	40.00	42.61	-6.5	40.0	PASS	PASS
Carbazole	0.927	0.050	40.00	39.13	2.2	40.0	PASS	PASS
Di-n-butyl phthalate	2.099	0.050	40.00	41.40	-3.5	40.0	PASS	PASS
Fluoranthene	0.874	0.050	40.00	37.61	6.0	20.0	PASS	PASS
Benzidine	0.502	0.050	40.00	36.76	8.1	40.0	PASS	PASS
Pyrene	0.867	0.050	40.00	42.44	-6.1	40.0	PASS	PASS
4-Terphenyl-d14	1.188	0.050	40.00	40.04	-0.1	40.0	PASS	PASS
Butyl benzyl phthalate	1.052	0.050	40.00	44.42	-11.1	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.814	0.050	40.00	39.28	1.8	40.0	PASS	PASS
Benz[a]anthracene	1.604	0.050	40.00	35.89	10.3	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.897	0.050	40.00	30.64	23.4	40.0	PASS	PASS
Chrysene	1.937	0.050	40.00	37.93	5.2	40.0	PASS	PASS
Di-n-octyl phthalate	2.589	0.050	40.00	43.97	-9.9	20.0	PASS	PASS
Benzo(b)fluoranthene	1.416	0.050	40.00	39.28	1.8	40.0	PASS	PASS
Benzo[k]fluoranthene	1.472	0.050	40.00	40.66	-1.7	40.0	PASS	PASS
Benzo[a]pyrene	1.366	0.050	40.00	40.34	-0.9	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.832	0.050	40.00	38.98	2.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.721	0.050	40.00	39.86	0.3	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.831	0.050	40.00	39.38	1.5	40.0	PASS	PASS

dam 9/5/14

JC 9.5.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
40ppm ccv	169453	5.18	526172	6.90	245209	9.50	421347	11.75	418949	15.77	558521	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 9/5/14

JC 9-5-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\september 2014\090414\40ppm ccv.SMS Lab Sample ID: 40ppm ccv

Instrument ID: ELMO Date Analyzed: 9/4/2014 Time Analyzed: 09:03

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	169453	5.18	526172	6.90	245209	9.50	421347	11.75	418949	15.77	558521	17.92
UPPER LIMIT	338906	5.68	1.052E6	7.40	490418	10.00	842694	12.25	837898	16.27	1.117E6	18.42
LOWER LIMIT	84727	4.68	263086	6.40	122605	9.00	210674	11.25	209475	15.27	279261	17.42
EPA SAMPLE NO												
1408f14-00	79003 *	5.18	267500	6.90	121839 *	9.49	234569	11.74	259645	15.76	304838	17.91
1408f14-00	80257 *	5.18	271763	6.90	117387 *	9.50	223910	11.74	255443	15.76	298988	17.91
1408f15-00	72568 *	5.18	246478 *	6.90	91061 *	9.50	177379 *	11.74	219262	15.76	245215 *	17.91
1408f15-00	78300 *	5.18	258315 *	6.90	115497 *	9.50	253650	11.75	300341	15.76	336778	17.92
1408f15-00	76828 *	5.18	260358 *	6.91	115698 *	9.50	249598	11.75	306233	15.76	338411	17.92
1408f15-00	78446 *	5.18	267283	6.90	114541 *	9.49	229614	11.74	261836	15.76	298792	17.91
1408f15-00	76461 *	5.18	256886 *	6.90	114555 *	9.50	260875	11.74	290417	15.76	327910	17.91
1408f15-00	78424 *	5.18	258979 *	6.90	114129 *	9.50	236981	11.75	245476	15.76	283712	17.92
mb-15084	73515 *	5.18	243518 *	6.90	108238 *	9.50	245424	11.75	268658	15.76	309222	17.92
lcs-150841	82785 *	5.18	270879	6.90	116217 *	9.50	242864	11.75	259479	15.76	300976	17.91
1409046-00	77527 *	5.18	260192 *	6.90	104361 *	9.50	226953	11.75	241492	15.76	289622	17.91
1409046-00	80821 *	5.19	261653 *	6.91	110269 *	9.50	247153	11.75	257125	15.76	305257	17.92
1409046-00	66917 *	5.19	242188 *	6.91	130504	9.51	253194	11.75	244125	15.77	281998	17.92
1409046-00	74845 *	5.19	254356 *	6.91	107839 *	9.50	234439	11.75	245955	15.76	283365	17.92
1409046-00	73507 *	5.18	244624 *	6.90	107200 *	9.50	213545	11.74	233959	15.76	272565 *	17.91
1409046-00	59007 *	5.18	216083 D	6.91 D	133177	9.50	241256	11.74	247282	15.76	266259 *	17.91
1409046-00	64599 *	5.18	254688 D	6.91 D	138748	9.50	254540	11.75	265168	15.76	284851	17.91

* = NMR

dam 9/5/14

✓ JC 9.5.14

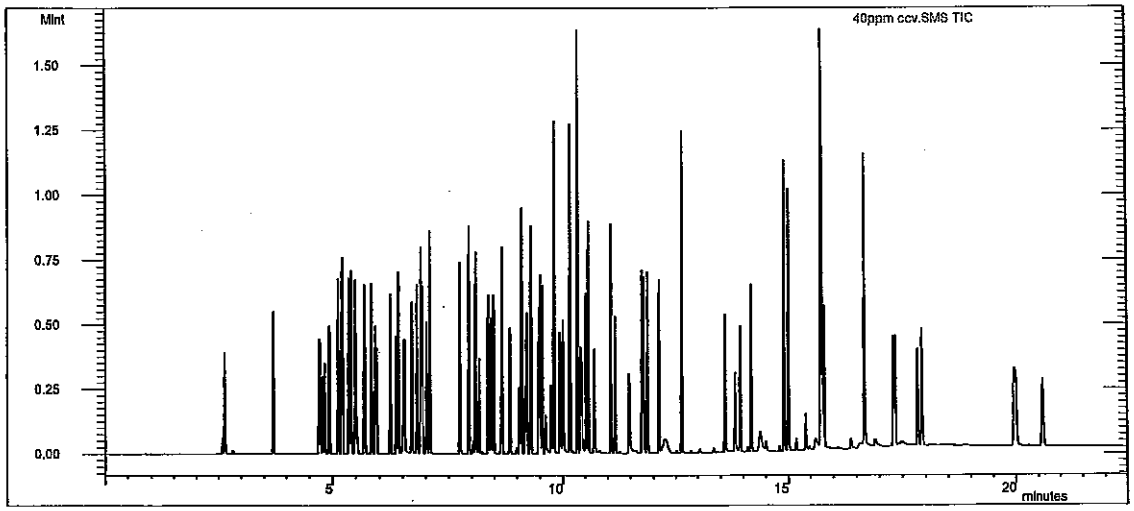
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1409046-00	70738 *	5.18	261133 D	6.91 D	144603	9.50	265835	11.74	274684	15.76	292760	17.91
1409046-00	66817 *	5.18	245226 D	6.90 D	132550	9.50	243182	11.74	264840	15.75	281195	17.91
1408f16-00	76979 *	5.18	250851 *	6.90	100846 *	9.50	216461	11.74	233409	15.75	272472 *	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

8270C Report

Sample Name:	40ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	9/4/2014 9:03:19 AM
Calculation Date:	9/4/2014 9:25:48 AM				



dam 9/5/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.183	440	Identified	169453	40.000
Naphthalene-d8 (I.S)	6.903	620	Identified	526172	40.000
Acenaphthene-d10 (I.S)	9.502	895	Identified	245209	40.000
Phenanthrene-d10	11.747	1130	Identified	421347	40.000
Chrysene-d12 I.S	15.765	1550	Identified	418949	40.000
Perylene-d12 I.S	17.916	1771	Identified	558521	40.000
N-nitrosodimethylamine	2.592	164	Identified	606684	46.039
Pyridine	2.638	168	Identified	1.957E6	50.572
2-Fluorophenol	3.706	283	Identified	205880	42.356
Phenol-d5	4.712	390	Identified	192435	41.672
Phenol	4.728	392	Identified	200916	38.518
Aniline	4.782	398	Identified	571460	33.006
Bis(2-chloroethyl)ether	4.834	403	Identified	330834	38.269
2-Chlorophenol	4.926	413	Identified	197230	38.933
1,3-Dichlorobenzene	5.111	432	Identified	246859	38.455
1,4-Dichlorobenzene	5.204	442	Identified	244799	40.363
Benzyl alcohol	5.347	457	Identified	191355	39.830
1,2-Dichlorobenzene	5.398	462	Identified	239185	39.929
2-Methylphenol	5.486	471	Identified	164956	39.861
Bis(2-chloroisopropyl)ether	5.504	473	Identified	220520	37.081
3+4-Methylphenol	5.690	493	Identified	185272	35.096
N-Nitrosodi-n-propylamine	5.682	492	Identified	578159	38.467
Hexachloroethane	5.836	508	Identified	785918	40.006
Nitrobenzene-d5	5.911	516	Identified	166045	40.637

SV 9.5.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.937	518	Identified	169740	40.292
Isophorone	6.241	551	Identified	345739	44.860
2-Nitrophenol	6.371	565	Identified	168482	41.193
2,4-Dimethylphenol	6.417	569	Identified	194945	40.570
Benzoic acid	6.522	580	Identified	1.151E6	41.852
Bis(2-chloroethoxy)methane	6.545	583	Identified	209471	44.010
2,4-Dichlorophenol	6.705	600	Identified	186066	40.055
1,2,4-Trichlorobenzene	6.820	612	Identified	171734	39.759
Naphthalene	6.934	623	Identified	461149	42.190
4-Chloroaniline	7.023	633	Identified	197037	39.142
Hexachlorobutadiene	7.094	640	Identified	317108	36.161
4-Chloro-3-methylphenol	7.735	709	Identified	220214	39.940
2-Methylnaphthalene	7.936	730	Identified	118923	35.827
1-Methylnaphthalene	8.087	746	Identified	116603	34.488
Hexachlorocyclopentadiene	8.163	754	Identified	190196	28.597
2,4,6-Trichlorophenol	8.370	776	Identified	73322	33.675
2,4,5-Trichlorophenol	8.370	776	Identified	73003	35.907
2-Fluorobiphenyl	8.485	788	Identified	349639	37.419
2-Chloronaphthalene	8.667	807	Identified	372695	38.936
2-Nitroaniline	8.845	826	Identified	264137	38.632
Dimethyl phthalate	9.101	853	Identified	709467	40.162
2,6-Dinitrotoluene	9.207	864	Identified	166896	39.478
Acenaphthylene	9.290	872	Identified	454305	38.054
3-Nitroaniline	9.466	891	Identified	253839	38.109
Acenaphthene	9.551	900	Identified	287614	37.143
2,4-Dinitrophenol	9.620	907	Identified	520740	43.576
4-Nitrophenol	9.749	920	Identified	45852	38.978
Dibenzofuran	9.810	927	Identified	181422	32.300
2,4-Dinitrotoluene	9.813	927	Identified	81204	35.854
Diethyl phthalate	10.157	963	Identified	555658	35.171
4-Chlorophenyl phenyl ether	10.326	981	Identified	152935	29.313
Fluorene	10.327	981	Identified	547080	34.543
4-Nitroaniline	10.393	988	Identified	436554	37.045
4,6-Dinitro-2-methylphenol	10.426	991	Identified	675275	53.851
N-Nitrosodiphenylamine	10.516	1001	Identified	290029	41.606
Azobenzene	10.567	1006	Identified	428888	43.364
2,4,6-Tribromophenol	10.700	1020	Identified	713160	40.960
4-Bromophenyl phenyl ether	11.064	1058	Identified	214888	39.894
Hexachlorobenzene	11.156	1068	Identified	218405	37.389
Pentachlorophenol	11.470	1101	Identified	567543	39.211
Phenanthrene	11.783	1134	Identified	419562	41.413
Anthracene	11.860	1142	Identified	436381	42.614
Carbazole	12.126	1170	Identified	390482	39.130
Di-n-butyl phthalate	12.626	1222	Identified	884527	41.405
Fluoranthene	13.589	1324	Identified	368091	37.607
Benzidine	13.822	1348	Identified	210449	36.763
Pyrene	13.937	1360	Identified	363230	42.436
4-Terphenyl-d14	14.169	1384	Identified	497593	40.036
Butyl benzyl phthalate	14.907	1461	Identified	440553	44.423
3,3'-Dichlorobenzidine	15.734	1547	Identified	760139	39.275

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.750	1548	Identified	671878	35.886
Bis(2-ethylhexyl)phthalate	15.748	1548	Identified	375865	30.635
Chrysene	15.804	1554	Identified	811621	37.933
Di-n-octyl phthalate	16.680	1644	Identified	1.085E6	43.974
Benzo(b)fluoranthene	17.304	1709	Identified	790681	39.281
Benzo[k]fluoranthene	17.343	1713	Identified	822128	40.660
Benzo[a]pyrene	17.821	1761	Identified	763117	40.345
Indeno[1,2,3-cd]pyrene	19.962	1982	Identified	464930	38.978
Dibenz[a,h]anthracene	19.998	1985	Identified	402947	39.863
Benzo[g,h,i]perylene	20.592	2047	Identified	464289	39.384

****
Revision Log
****

9/4/2014 9:25 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

****

Varian Star Workstation - 8400 SampleList Fri Sep 05 14:56:16 2014

SampleList: C:\VarianWS\090514.smp

Created: Fri Sep 05 08:13:04 2014
Modified: Fri Sep 05 14:35:10 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume	
1	dftpp tune	1	below	0	1.0	
	Notes sv110-0601					
2	10ppm ll ccv	1	below	1	1.0	
	Notes sv110-0562					
3	50ppm ccv	1	below	2	1.0	
	Notes sv110-0594					
4	mb-15124	1	below	3	1.0	
	Notes TCLP					
5	lcs-15124	1	below	4	1.0	
	Notes TCLP					
6	1408f15-003a	1	below	5	1.0	
	Notes re-ext tclp					
7	1408f15-006a	1	below	6	1.0	
	Notes re-ext tclp					
8	1409046-006a	1	below	24	1.0	
	Notes r5x					
9	1409046-007a	1	below	25	1.0	
	Notes r2x					
10	lcs-15124	1	below	4	1.0	
	Notes rr					
11	1408f16-002a	1	below	7	1.0	
	Notes r20x aq					
12	lcs-15084	1	below	26	1.0	
	Notes rr					
13	mb-15111	1	below	8	1.0	
	Notes x1 s					
14	lcs-15111	1	below	9	1.0	
	Notes x1 s					
15	1409136-001a	1	below	10	1.0	
	Notes x1 s					
16	1409136-001ams	1	below	11	1.0	
	Notes x1 s					
17	1409136-001amsd	1	below	12	1.0	
	Notes x1 s					
18	1409136-002a	1	below	13	1.0	
	Notes x1 FV=2ml					
19						
20	mb-15113	1	below	14	1.0	
	Notes x1 ll soil					
21	lcs-15113	1	below	15	1.0	
	Notes x1 ll soil					
22	1409136-003a	1	below	16	1.0	
	Notes x1 ll soil					
23	1409136-003ams	1	below	17	1.0	
	Notes x1 ll soil					
24	1409136-003amsd	1	below	18	1.0	
	Notes x1 ll soil					
25	mb-15083	1	below	19	1.0	
	Notes x1 ll soil					
26	lcs-15083	1	below	20	1.0	
	Notes x1 ll soil					
27	1408f23-001a	1	below	21	1.0	RR
	Notes x1 ll soil					
28	1408f23-001ams	1	below	22	1.0	RR
	Notes x1 ll soil					
29	1408f23-001amsd	1	below	23	1.0	RR
	Notes x1 ll soil					
30						

dam 9/5/14

RR OUTSIDE OF 12 hr CLOCK

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

JC 9.5.14

Create and update a new RecalcList: c:\varianws\090514.rcl.

8270C

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

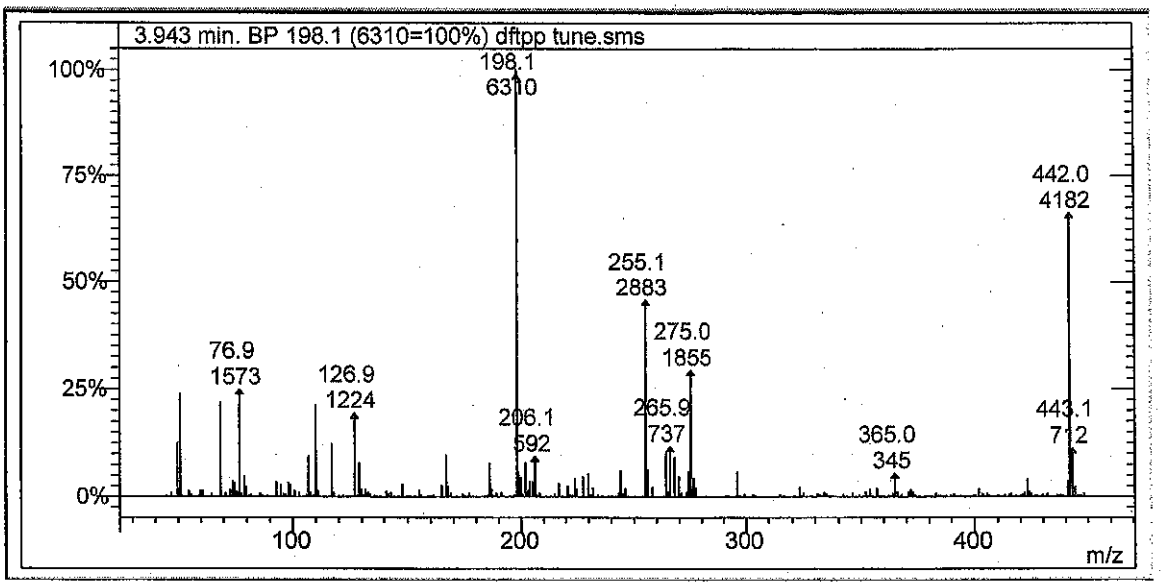
Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/5/2014

Injection Time: 8:15

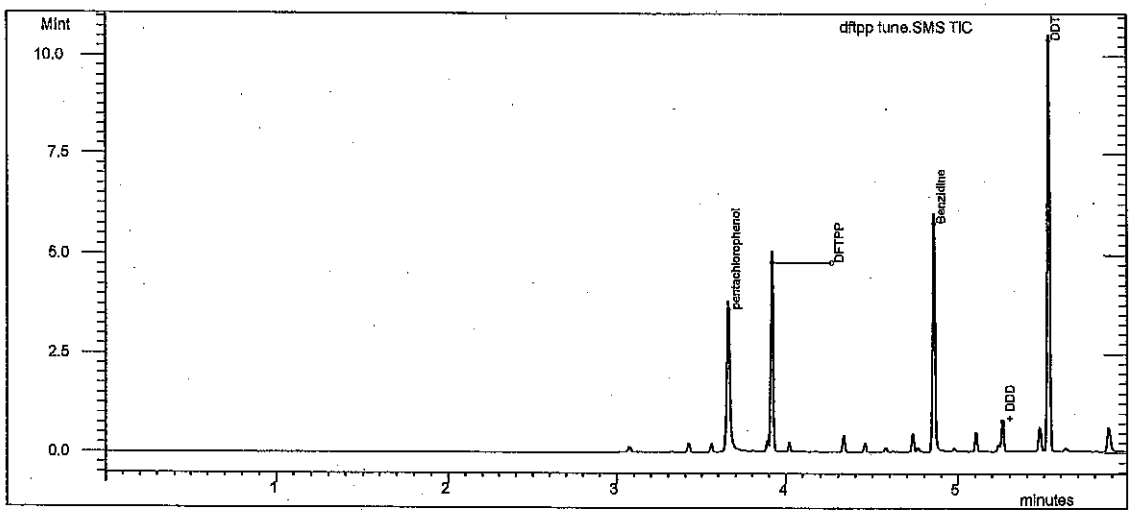
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	23.93	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	21.84	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	19.40	PASS
197	<2% of m/z 198	0.46	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.78	PASS
275	10-60% of base peak	29.40	PASS
365	>1% of base peak	5.47	PASS
441	Present and <m/z 443	32.44	PASS
442	>50% of m/z 198	66.28	PASS
443	15-24% of m/z 442	17.03	PASS

dam 9/5/14

JC 9.5.14

Degradation Report

Acquisition Date:	9/5/2014 8:15:41 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.528	2.644E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.259	205720	5
DDE	4.980	7571	6

% Degradation of DDT : = 7.465

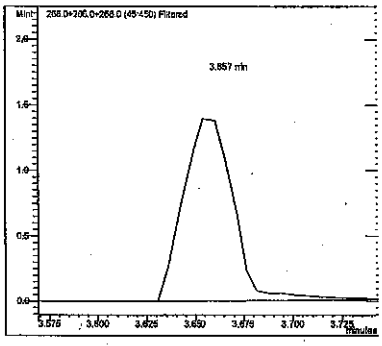
✓ dam 9/5/14

JC 9.5.14

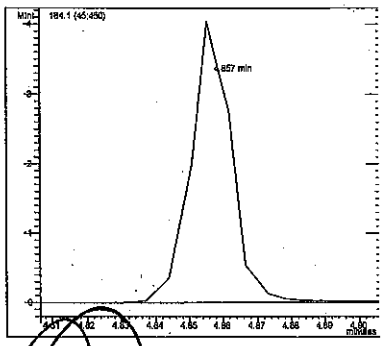
Tailing and Gaussian Factor Report

Acquisition Date:	9/5/2014 8:15:41 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.657 Area = 2.522E6



Benzidine
RT = 4.857 Area = 3.478E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.657	1.553	0.761
Benzidine	4.857	1.186	0.942

✓ / dlm 9/5/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.657	2.522E6
3	Benzidine	4.857	3.478E6

9.5.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	120441	5.17	396312	6.89	192572	9.49	377865	11.74	428097	15.76	567526	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 9/5/14

JC 9-5-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\september 2014\090514\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 9/5/2014 Time Analyzed: 09:44

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	120441	5.17	396312	6.89	192572	9.49	377865	11.74	428097	15.76	567526	17.91
UPPER LIMIT	240882	5.67	792624	7.39	385144	9.99	755730	12.24	856194	16.26	1.135E6	18.41
LOWER LIMIT	60221	4.67	198156	6.39	96286	8.99	188933	11.24	214049	15.26	283763	17.41
EPA SAMPLE NO												
mb-15124	88812	5.18	304835	6.90	139614	9.50	272839	11.74	334040	15.76	418074	17.91
lcs-15124	95330	5.18	325164	6.90	142799	9.49	262285	11.74	312132	15.76	399004	17.91
1408f15-00	95923	5.18	315010	6.90	140644	9.49	258394	11.74	308774	15.76	376449	17.91
1408f15-00	89302	5.17	291584	6.89	140672	9.49	245660	11.74	301983	15.75	359329	17.91
1409046-00	95428	5.18	349620 D	6.90 D	179947	9.50	310726	11.75	354941	15.76	408216	17.91
1409046-00	87578	5.17	345193 D	6.90 D	186015	9.49	307888	11.74	335851	15.76	387366	17.91
lcs-151240	95957	5.18	312272	6.90	136497	9.50	254410	11.75	306417	15.76	363378	17.92
1408f16-00	83902	5.18	280157	6.90	134187	9.49	274592	11.74	325507	15.76	389633	17.91
lcs-15084	98402	5.18	327343	6.90	142528	9.50	269988	11.74	331028	15.76	382668	17.91
mb-15111	88586	5.18	310183	6.90	134341	9.50	273158	11.75	335708	15.77	373382	17.92
lcs-15111	94266	5.18	309764	6.90	136104	9.50	252810	11.74	301498	15.76	353641	17.91
1409136-00	93089	5.18	313100	6.90	137002	9.50	265142	11.75	312391	15.76	358309	17.91
1409136-00	92734	5.17	287216	6.89	126282	9.49	261150	11.74	298992	15.75	346056 D	17.90 D
1409136-00	91992	5.18	306783	6.90	132012	9.50	291162	11.74	320698	15.76	364084	17.91
1409136-00	86972	5.18	323372	6.90	140693	9.50	274037	11.74	300019	15.76	334995	17.91

dam 9/8/14

9-8-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/5/2014 Time: 9:44

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

high RR ity

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	4.037	0.050	50.00	70.10	-40.2	40.0	FAIL	PASS
Pyridine	12.295	0.050	50.00	68.29	-36.6	40.0	PASS	PASS
2-Fluorophenol	1.197	0.050	50.00	52.18	-4.4	40.0	PASS	PASS
Phenol-d5	1.096	0.050	50.00	50.19	-0.4	40.0	PASS	PASS
Phenol	1.191	0.050	50.00	48.58	2.8	20.0	PASS	PASS
Aniline	3.293	0.050	50.00	40.23	19.5	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.012	0.050	50.00	50.14	-0.3	40.0	PASS	PASS
2-Chlorophenol	1.165	0.050	50.00	48.71	2.6	40.0	PASS	PASS
1,3-Dichlorobenzene	1.548	0.050	50.00	51.43	-2.9	40.0	PASS	PASS
1,4-Dichlorobenzene	1.512	0.050	50.00	53.01	-6.0	20.0	PASS	PASS
Benzyl alcohol	1.138	0.050	50.00	50.84	-1.7	40.0	PASS	PASS
1,2-Dichlorobenzene	1.478	0.050	50.00	52.60	-5.2	40.0	PASS	PASS
2-Methylphenol	0.986	0.050	50.00	50.50	-1.0	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.358	0.050	50.00	48.28	3.4	40.0	PASS	PASS
3+4-Methylphenol	1.149	0.050	50.00	47.08	5.8	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.417	0.050	50.00	48.27	3.5	40.0	PASS	PASS
Hexachloroethane	4.817	0.050	50.00	51.99	-4.0	40.0	PASS	PASS
Nitrobenzene-d5	0.308	0.050	50.00	50.10	-0.2	40.0	PASS	PASS
Nitrobenzene	0.329	0.050	50.00	52.19	-4.4	40.0	PASS	PASS
Isophorone	0.654	0.050	50.00	55.88	-11.8	40.0	PASS	PASS
2-Nitrophenol	0.314	0.050	50.00	50.60	-1.2	20.0	PASS	PASS
2,4-Dimethylphenol	0.374	0.050	50.00	51.24	-2.5	40.0	PASS	PASS
Benzoic acid	2.094	0.050	50.00	48.86	2.3	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.387	0.050	50.00	53.42	-6.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.358	0.050	50.00	50.70	-1.4	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.330	0.050	50.00	50.54	-1.1	40.0	PASS	PASS
Naphthalene	0.880	0.050	50.00	53.03	-6.1	40.0	PASS	PASS
4-Chloroaniline	0.375	0.050	50.00	48.51	3.0	40.0	PASS	PASS
Hexachlorobutadiene	0.654	0.050	50.00	49.16	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.436	0.050	50.00	52.03	-4.1	20.0	PASS	PASS
2-Methylnaphthalene	0.251	0.050	50.00	49.79	0.4	40.0	PASS	PASS
1-Methylnaphthalene	0.249	0.050	50.00	48.48	3.0	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.408	0.050	50.00	40.67	18.7	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.336	0.050	50.00	46.95	6.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.289	0.050	50.00	43.57	12.9	40.0	PASS	PASS
2-Fluorobiphenyl	1.455	0.050	50.00	47.46	5.1	40.0	PASS	PASS

dlm 9/5/14

JC 9-5-14

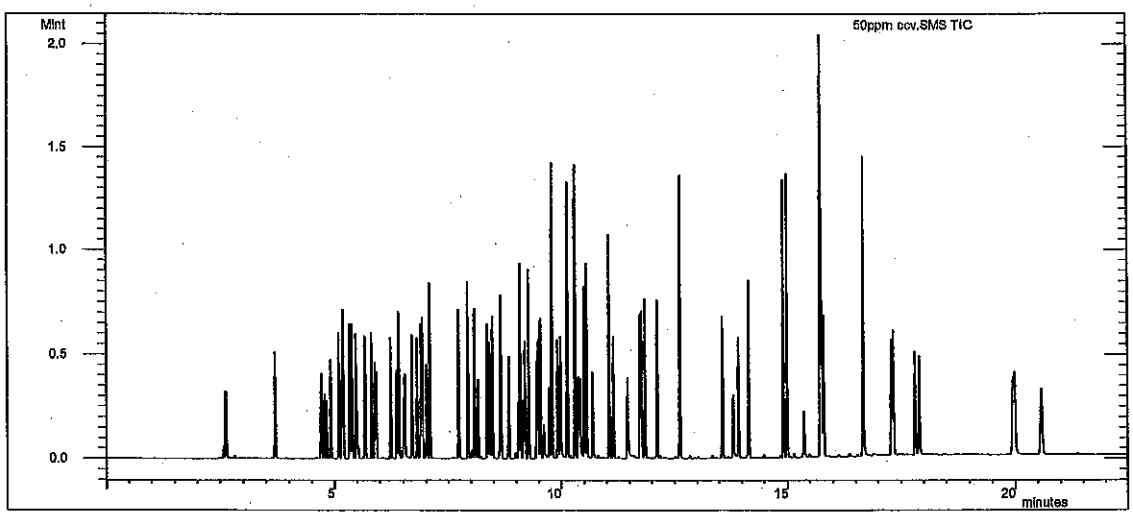
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.505	0.050	50.00	48.09	3.8	40.0	PASS	PASS
2-Nitroaniline	1.092	0.050	50.00	48.95	2.1	40.0	PASS	PASS
Dimethyl phthalate	2.890	0.050	50.00	50.20	-0.4	40.0	PASS	PASS
2,6-Dinitrotoluene	0.681	0.050	50.00	49.36	1.3	40.0	PASS	PASS
Acenaphthylene	1.866	0.050	50.00	47.87	4.3	40.0	PASS	PASS
3-Nitroaniline	1.105	0.050	50.00	50.73	-1.5	40.0	PASS	PASS
Acenaphthene	1.241	0.050	50.00	49.10	1.8	20.0	PASS	PASS
2,4-Dinitrophenol	2.298	0.050	50.00	55.74	-11.5	40.0	PASS	PASS
4-Nitrophenol	0.218	0.050	50.00	56.16	-12.3	40.0	PASS	PASS
Dibenzofuran	0.825	0.050	50.00	44.89	10.2	40.0	PASS	PASS
2,4-Dinitrotoluene	0.372	0.050	50.00	50.46	-0.9	40.0	PASS	PASS
Diethyl phthalate	2.530	0.050	50.00	50.33	-0.7	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.713	0.050	50.00	42.66	14.7	40.0	PASS	PASS
Fluorene	2.441	0.050	50.00	46.94	6.1	40.0	PASS	PASS
4-Nitroaniline	1.948	0.050	50.00	50.42	-0.8	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.592	0.050	50.00	64.09	-28.2	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.677	0.050	50.00	50.78	-1.6	20.0	PASS	PASS
Azobenzene	0.957	0.050	50.00	51.03	-2.1	40.0	PASS	PASS
2,4,6-Tribromophenol	1.685	0.050	50.00	50.84	-1.7	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.523	0.050	50.00	51.20	-2.4	40.0	PASS	PASS
Hexachlorobenzene	0.531	0.050	50.00	48.00	4.0	40.0	PASS	PASS
Pentachlorophenol	1.523	0.050	50.00	53.65	-7.3	20.0	PASS	PASS
Phenanthrene	1.031	0.050	50.00	53.62	-7.2	40.0	PASS	PASS
Anthracene	1.063	0.050	50.00	54.60	-9.2	40.0	PASS	PASS
Carbazole	0.953	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.213	0.050	50.00	55.32	-10.6	40.0	PASS	PASS
Fluoranthene	0.912	0.050	50.00	48.97	2.1	20.0	PASS	PASS
Benzidine	0.408	0.050	50.00	37.29	25.4	40.0	PASS	PASS
Pyrene	0.804	0.050	50.00	48.40	3.2	40.0	PASS	PASS
4-Terphenyl-d14	1.209	0.050	50.00	50.37	-0.7	40.0	PASS	PASS
Butyl benzyl phthalate	0.995	0.050	50.00	52.44	-4.9	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.904	0.050	50.00	49.39	1.2	40.0	PASS	PASS
Benz[a]anthracene	1.593	0.050	50.00	44.11	11.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.950	0.050	50.00	40.10	19.8	40.0	PASS	PASS
Chrysene	1.919	0.050	50.00	46.37	7.3	40.0	PASS	PASS
Di-n-octyl phthalate	2.537	0.050	50.00	53.20	-6.4	20.0	PASS	PASS
Benzo(b)fluoranthene	1.370	0.050	50.00	47.38	5.2	40.0	PASS	PASS
Benzo[k]fluoranthene	1.411	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Benzo[a]pyrene	1.366	0.050	50.00	49.94	0.1	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.877	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.726	0.050	50.00	49.97	0.1	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.845	0.050	50.00	49.74	0.5	40.0	PASS	PASS

dam 9/5/14

JC 9.5.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/5/2014 9:44:11 AM
Calculation Date:	9/5/2014 10:06:42 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.173	439	Identified	120441	40.000
Naphthalene-d8 (I.S)	6.891	619	Identified	396312	40.000
Acenaphthene-d10 (I.S)	9.491	894	Identified	192572	40.000
Phenanthrene-d10	11.737	1129	Identified	377865	40.000
Chrysene-d12 I.S	15.756	1553	Identified	428097	40.000
Perylene-d12 I.S	17.906	1777	Identified	567526	40.000
N-nitrosodimethylamine	2.588	163	Identified	607714	70.105
Pyridine	2.632	168	Identified	1.851E6	68.294
2-Fluorophenol	3.698	282	Identified	180222	52.182
Phenol-d5	4.701	389	Identified	164983	50.188
Phenol	4.717	391	Identified	179378	48.576
Aniline	4.772	397	Identified	495780	40.229
Bis(2-chloroethyl)ether	4.824	402	Identified	302876	50.137
2-Chlorophenol	4.916	412	Identified	175450	48.709
1,3-Dichlorobenzene	5.101	431	Identified	232995	51.434
1,4-Dichlorobenzene	5.193	441	Identified	227569	53.008
Benzyl alcohol	5.336	456	Identified	171352	50.835
1,2-Dichlorobenzene	5.388	461	Identified	222511	52.595
2-Methylphenol	5.475	470	Identified	148382	50.504
Bis(2-chloroisopropyl)ether	5.493	472	Identified	204441	48.285
3+4-Methylphenol	5.680	492	Identified	172960	47.081
N-Nitrosodi-n-propylamine	5.671	491	Identified	514455	48.267
Hexachloroethane	5.825	507	Identified	725152	51.987
Nitrobenzene-d5	5.900	515	Identified	152685	50.098

dlm 9/5/14

SC 9.6.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.927	518	Identified	163202	52.187
Isophorone	6.230	550	Identified	324093	55.882
2-Nitrophenol	6.361	564	Identified	155572	50.598
2,4-Dimethylphenol	6.406	568	Identified	185139	51.244
Benzoic acid	6.511	579	Identified	1.037E6	48.863
Bis(2-chloroethoxy)methane	6.533	582	Identified	191616	53.420
2,4-Dichlorophenol	6.693	599	Identified	177526	50.702
1,2,4-Trichlorobenzene	6.808	610	Identified	163646	50.538
Naphthalene	6.922	622	Identified	436108	53.033
4-Chloroaniline	7.010	631	Identified	185866	48.514
Hexachlorobutadiene	7.083	639	Identified	323865	49.163
4-Chloro-3-methylphenol	7.723	708	Identified	216040	52.029
2-Methylnaphthalene	7.926	729	Identified	124208	49.793
1-Methylnaphthalene	8.075	745	Identified	123171	48.482
Hexachlorocyclopentadiene	8.151	753	Identified	202315	40.673
2,4,6-Trichlorophenol	8.357	775	Identified	80998	46.947
2,4,5-Trichlorophenol	8.415	780	Identified	69676	43.568
2-Fluorobiphenyl	8.474	787	Identified	350262	47.463
2-Chloronaphthalene	8.655	806	Identified	362221	48.094
2-Nitroaniline	8.834	825	Identified	262801	48.946
Dimethyl phthalate	9.090	852	Identified	695602	50.202
2,6-Dinitrotoluene	9.195	863	Identified	163970	49.355
Acenaphthylene	9.278	871	Identified	449063	47.871
3-Nitroaniline	9.455	890	Identified	265878	50.728
Acenaphthene	9.540	899	Identified	298612	49.098
2,4-Dinitrophenol	9.609	906	Identified	553187	55.736
4-Nitrophenol	9.736	919	Identified	52376	56.163
Dibenzofuran	9.800	926	Identified	198615	44.892
2,4-Dinitrotoluene	9.802	926	Identified	89610	50.462
Diethyl phthalate	10.147	962	Identified	608997	50.330
4-Chlorophenyl phenyl ether	10.314	979	Identified	171555	42.659
Fluorene	10.317	980	Identified	587647	46.941
4-Nitroaniline	10.383	987	Identified	468980	50.418
4,6-Dinitro-2-methylphenol	10.416	990	Identified	752098	64.090
N-Nitrosodiphenylamine	10.505	999	Identified	319599	50.781
Azobenzene	10.556	1004	Identified	452015	51.027
2,4,6-Tribromophenol	10.689	1018	Identified	795701	50.837
4-Bromophenyl phenyl ether	11.054	1057	Identified	246857	51.201
Hexachlorobenzene	11.146	1067	Identified	250689	47.999
Pentachlorophenol	11.460	1100	Identified	719490	53.652
Phenanthrene	11.773	1133	Identified	487000	53.616
Anthracene	11.851	1141	Identified	502301	54.601
Carbazole	12.116	1169	Identified	450282	50.229
Di-n-butyl phthalate	12.617	1222	Identified	1.045E6	55.318
Fluoranthene	13.579	1324	Identified	430947	48.973
Benzidine	13.811	1349	Identified	218340	37.285
Pyrene	13.927	1361	Identified	430387	48.405
4-Terphenyl-d14	14.159	1385	Identified	647223	50.371
Butyl benzyl phthalate	14.898	1463	Identified	532303	52.442
3,3'-Dichlorobenzidine	15.724	1550	Identified	1.019E6	49.393

List: C:\VarianWS\042514crv.smp

d: Fri Apr 25 09:05:43 2014
ed: Fri Apr 25 15:09:46 2014

****

e	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
	rb-8270	1	below	1	1.0
	Notes st110-0598				
	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
	5ppm crv	1	below	3	1.0
	Notes st110-0589				
	10ppm crv	1	below	4	1.0
	Notes st110-0590				
	20ppm crv	1	below	5	1.0
	Notes st110-0591				
	30ppm crv	1	below	6	1.0
	Notes st110-0592				
	40ppm crv	1	below	7	1.0
	Notes st110-0593				
	50ppm crv	1	below	8	1.0
	Notes st110-0594				
	80ppm crv	1	below	9	1.0
	Notes st110-0595				
	100ppm crv	1	below	10	1.0
	Notes st110-0596				
	120ppm crv	1	below	11	1.0
	Notes st110-0597				
	50ppm icv	1	below	12	1.0
	Notes st110-0599				

dam 4/28/14

TV 4.28.14

tory for Data Files: C:\VarianWS\data

Data File Names: %s

e and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

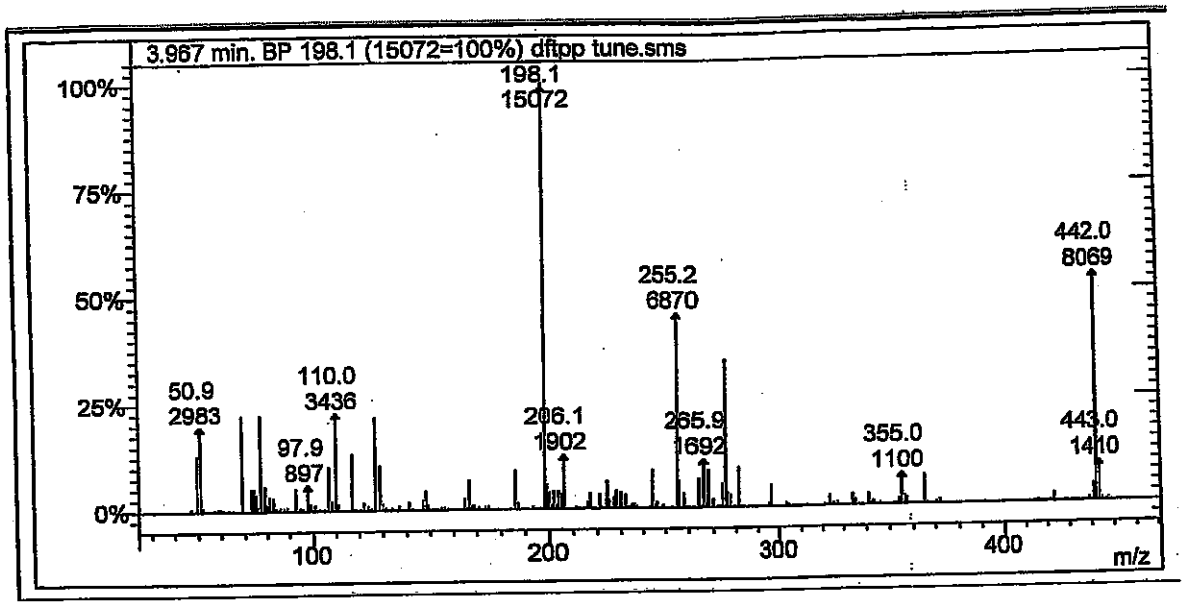
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

Adam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

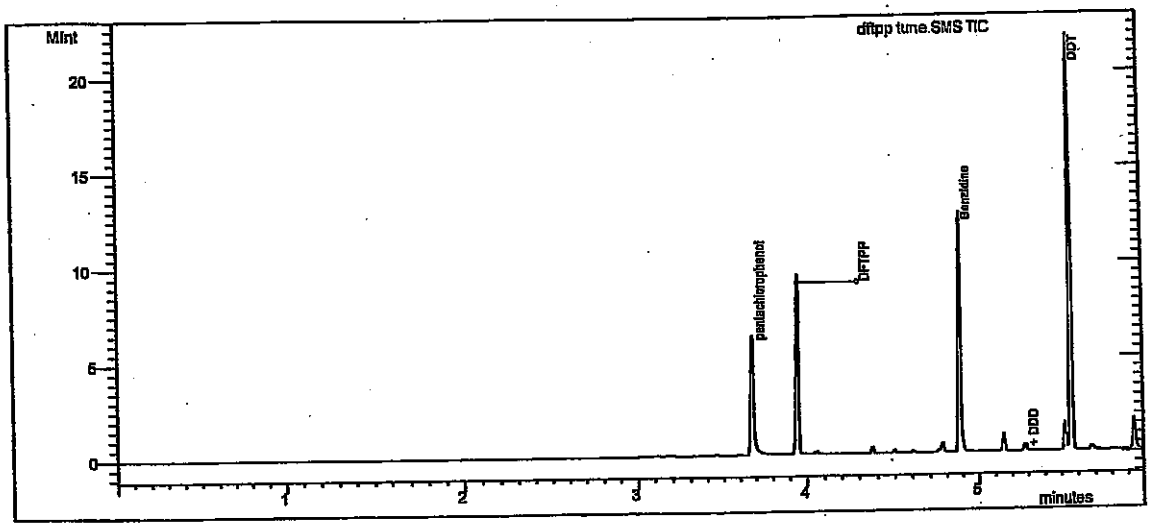
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TC 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

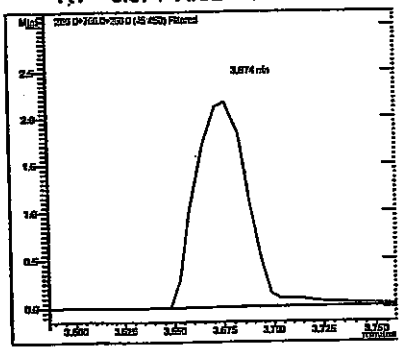
% Degradation of DDT: = .509 ✓ dam 4/28/14

TC 4-28-14

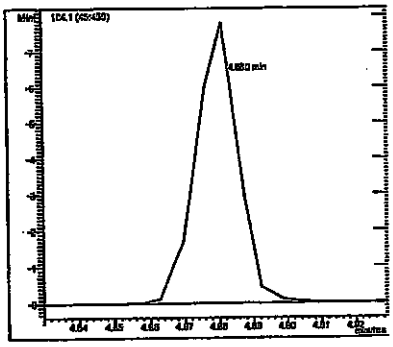
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dlm 4/18/14

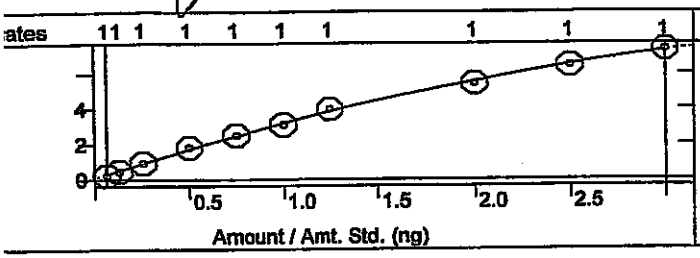
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

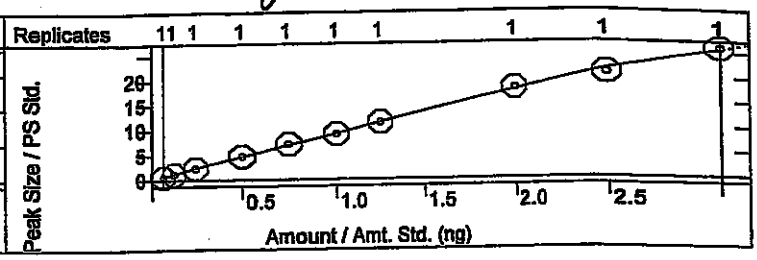
ibration Curves Report

iod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
t Measurement:	Area	Calibration Type:	Internal Standard Analysis

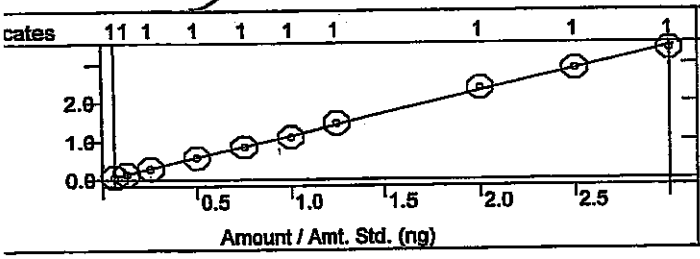
trosodimethylamine
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
-0.3412x2 +3.4265x +0.0884



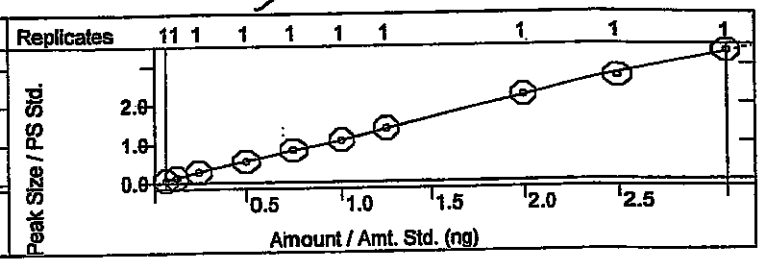
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



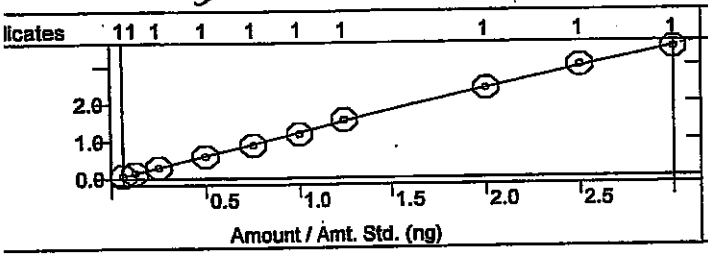
luorophenol
ve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
+1.1454x +0.0021



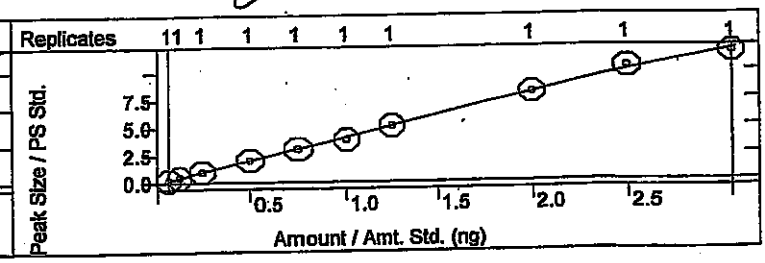
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



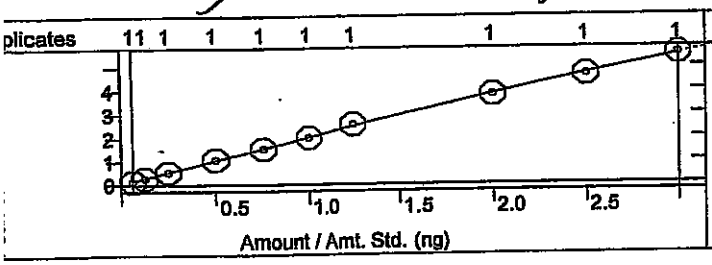
enol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
: -0.0409x2 +1.2967x -0.0251



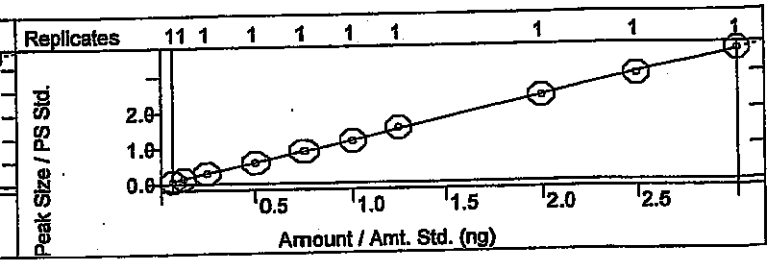
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



is(2-chloroethyl)ether
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242



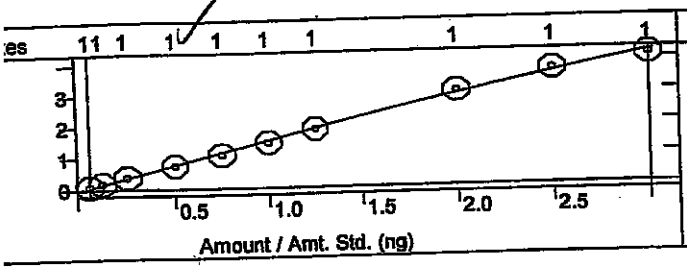
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



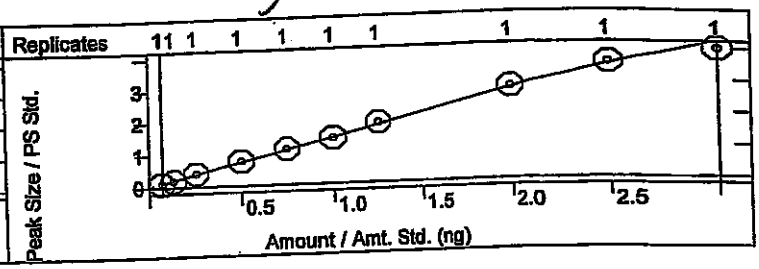
ıration Curves Report

ı:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
e List:	N/A	Detector:	2000 Mass Spec
nce:	N/A	Workstation Version:	Version 6.9
orkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

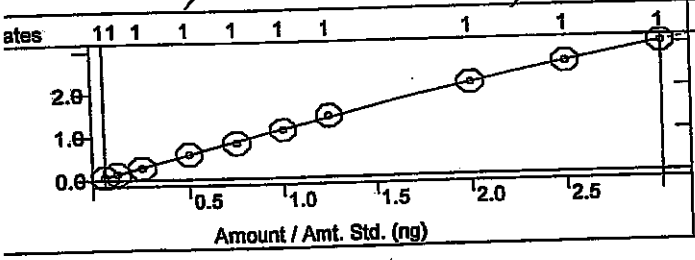
chlorobenzene
Fit: Quadratic, Origin: Ignore, Weight: None
Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
).0693x2 +1.6278x -0.0442



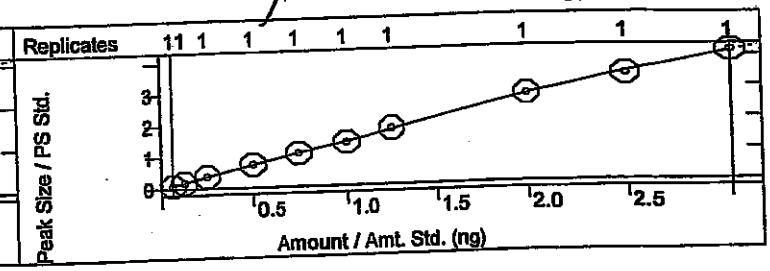
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



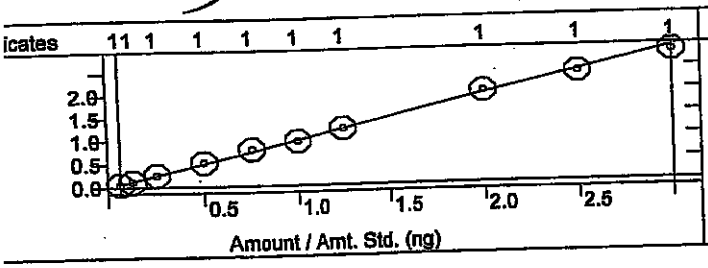
yl alcohol
e Fit: Quadratic, Origin: Ignore, Weight: None
). Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
-0.0661x2 +1.2165x -0.0165



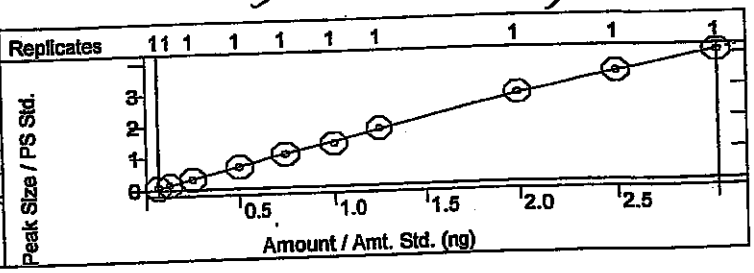
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



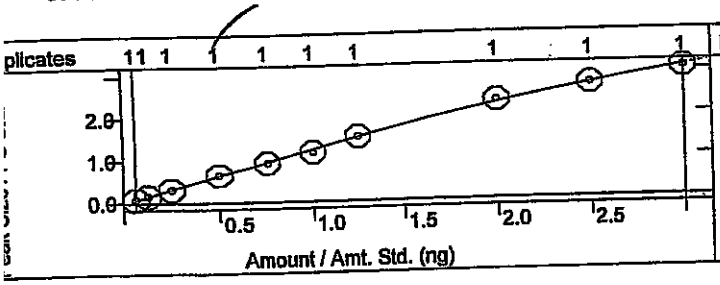
lethylphenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
+0.9716x +0.0052



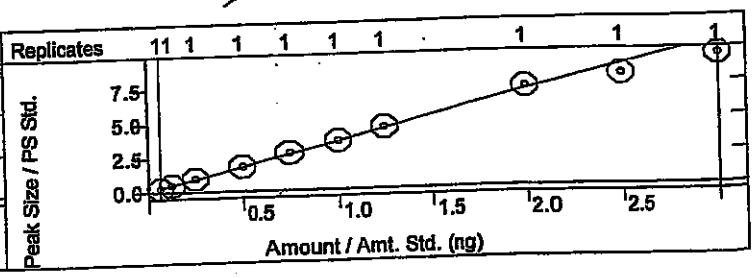
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



-4-Methylphenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
= -0.1133x2 +1.3766x -0.0272

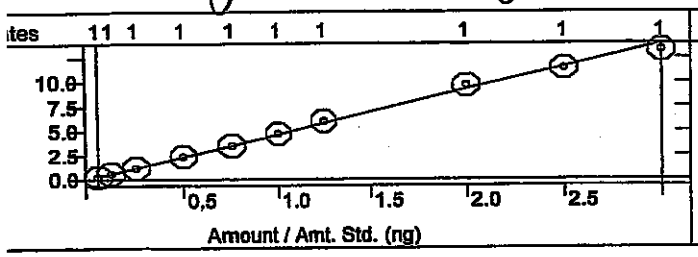


N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

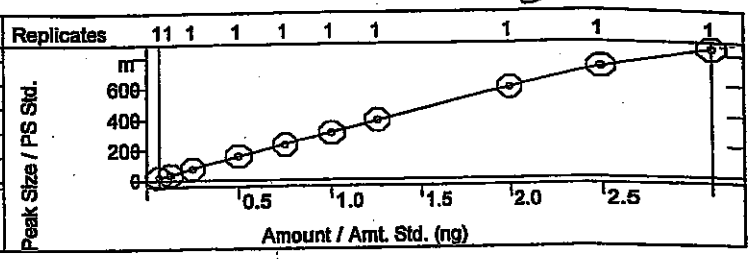


od:	c:\varianws\methods\8270 042514.mth		
ic Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ile List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

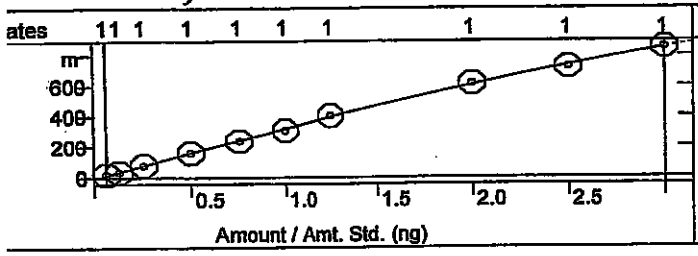
chloroethane
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
+4.6167x +0.0205



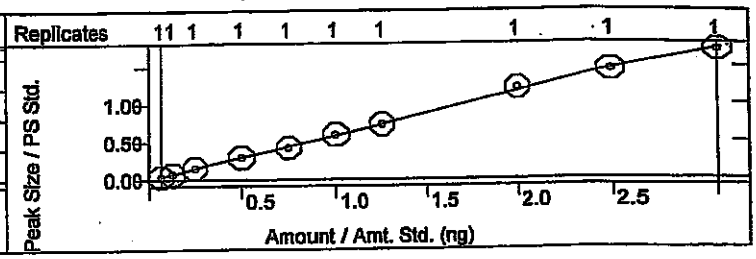
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



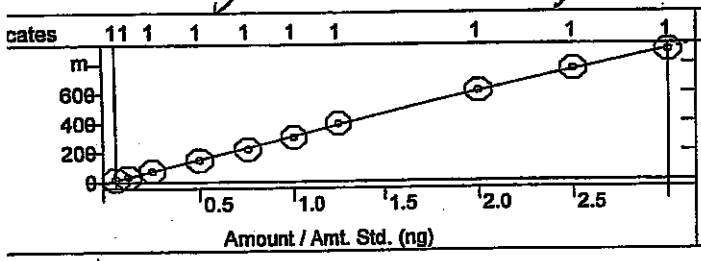
obenzene
re Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
-0.0200x2 +0.3461x -0.0058



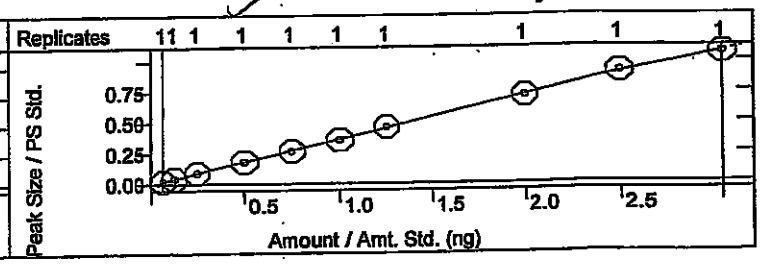
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



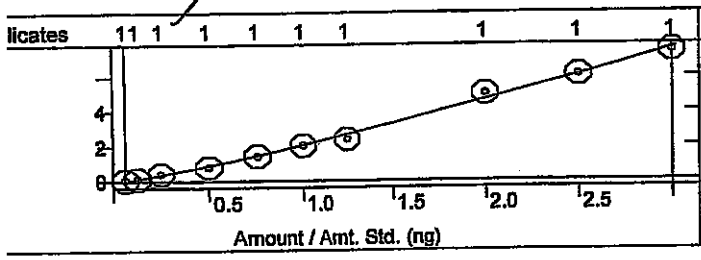
itrophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
-0.0089x2 +0.3282x -0.0083



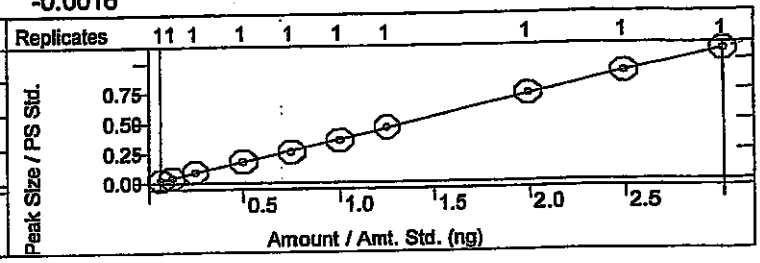
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



nzoic acid
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
: +0.1762x2 +2.0528x -0.1534



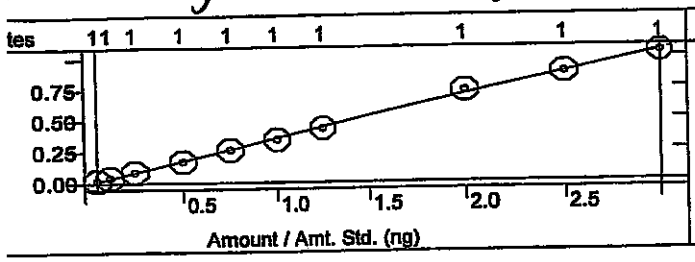
Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



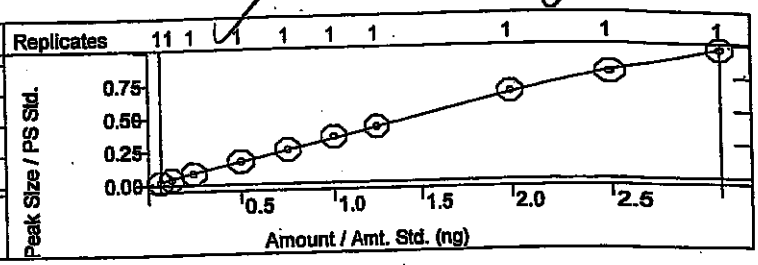
id:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
c Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JV 4-28-14

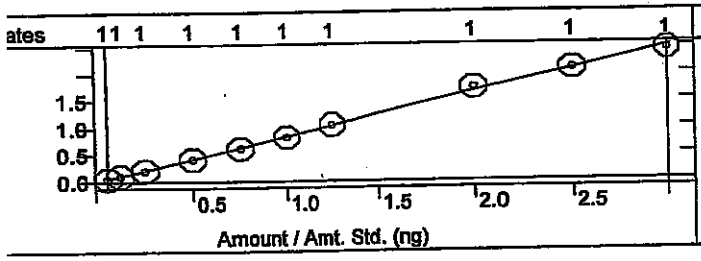
ichlorophenol
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
0.0055x2 +0.3668x -0.0082



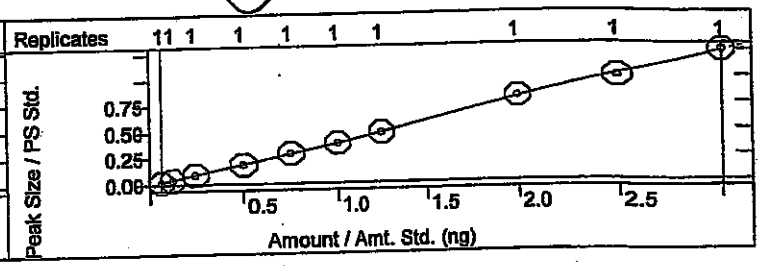
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



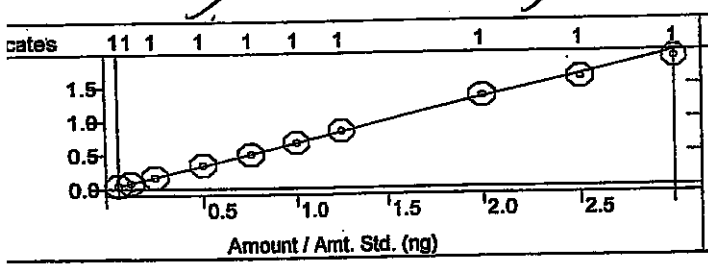
nthalene
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
+0.8263x +0.0048



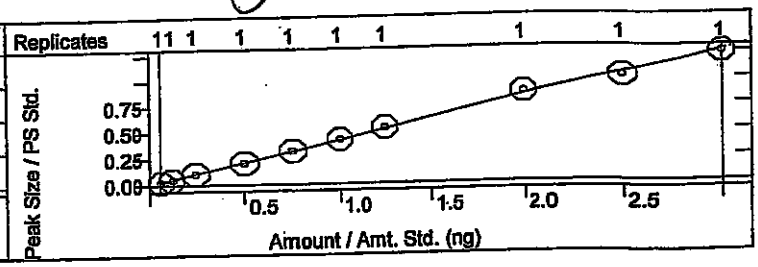
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



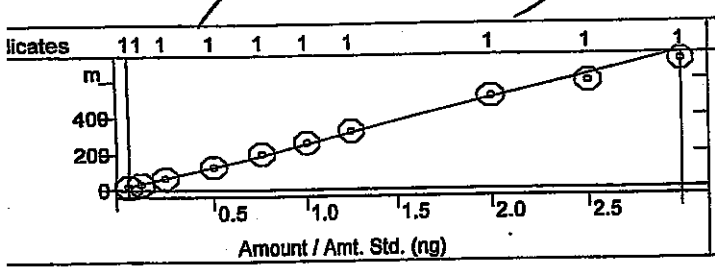
achlorobutadiene
ve Fit: Linear, Origin: Ignore, Weight: 1/X2
p. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
+0.6599x +0.0061



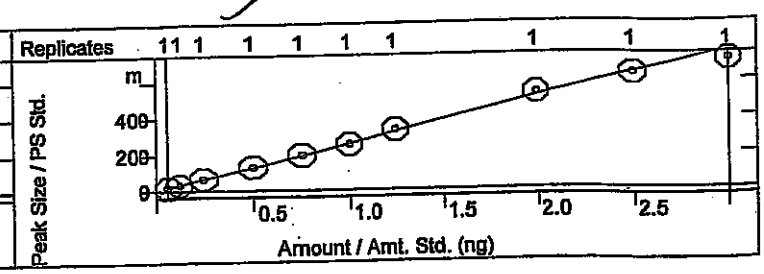
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



lethylnaphthalene
rve Fit: Linear, Origin: Ignore, Weight: 1/X2
sp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
+0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



od:	c:\varianws\methods\8270 042514.mth		
lic Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
t Measurement:	Area	Calibration Type:	Internal Standard Analysis

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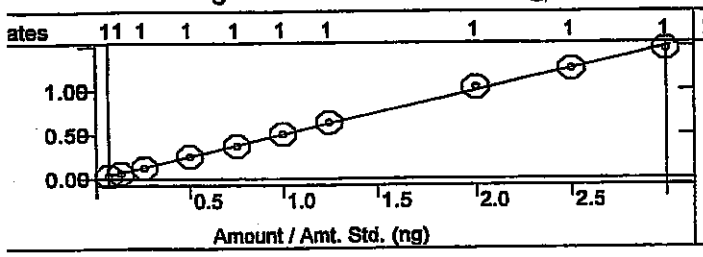
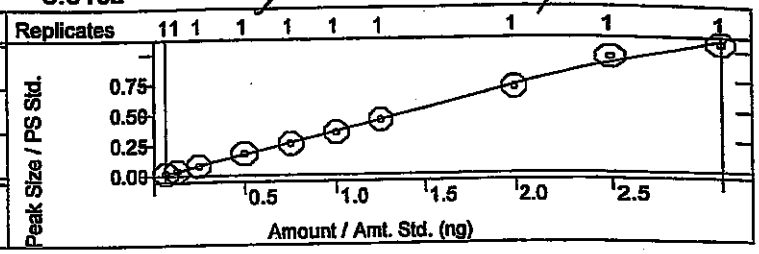
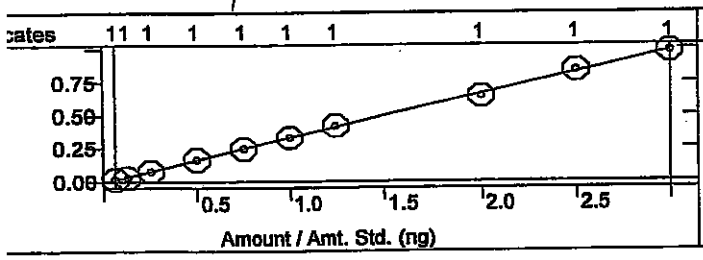
achlorocyclopentadiene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
+0.4936x +0.0086



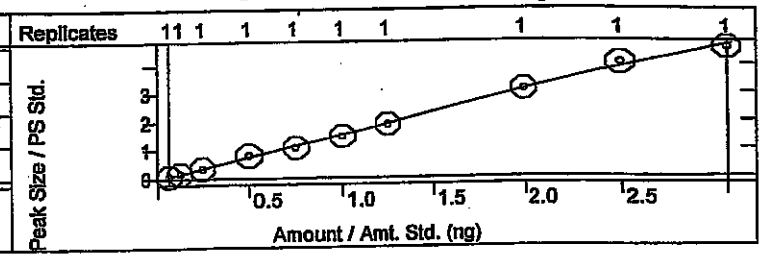
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



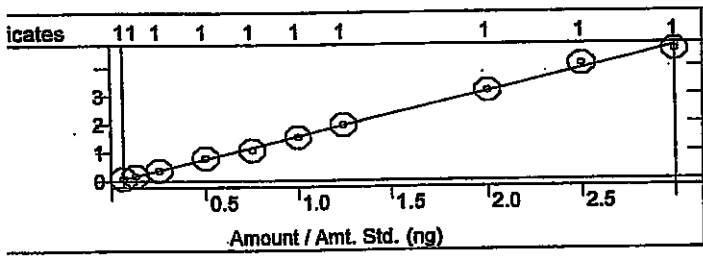
5-Trichlorophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
-0.0042x2 +0.3430x -0.0068



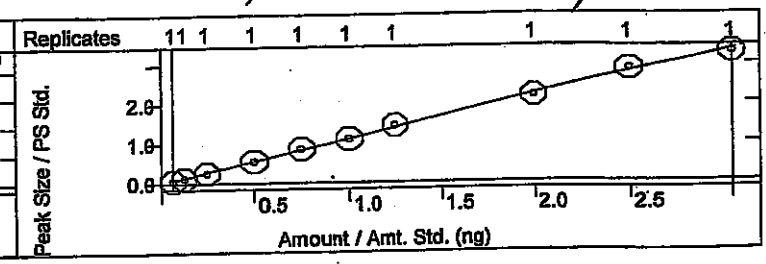
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



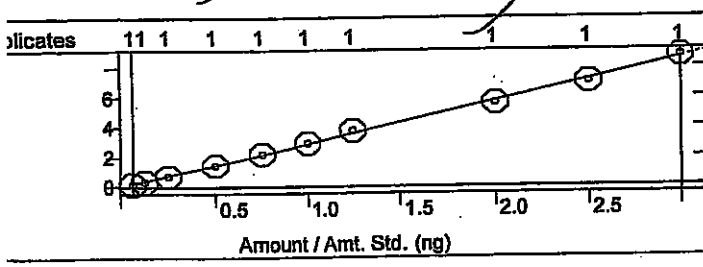
hloronaphthalene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
+1.5769x -0.0150



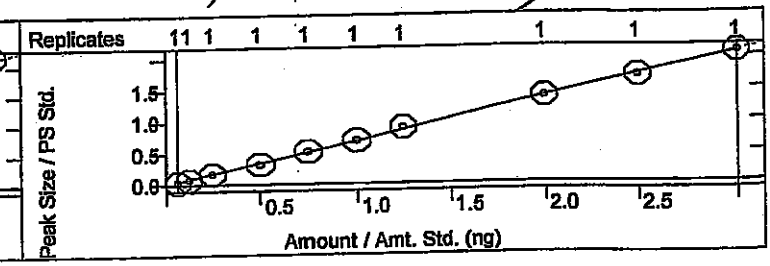
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



methyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
= +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



bration Curves Report

J dlm 4/28/14

od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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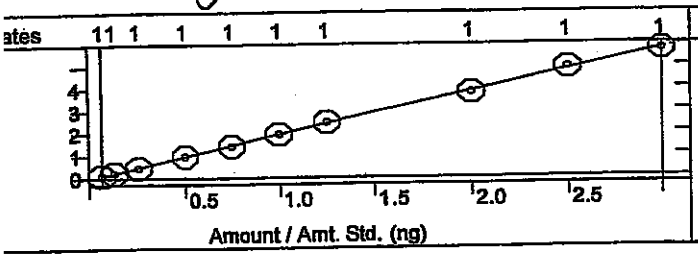
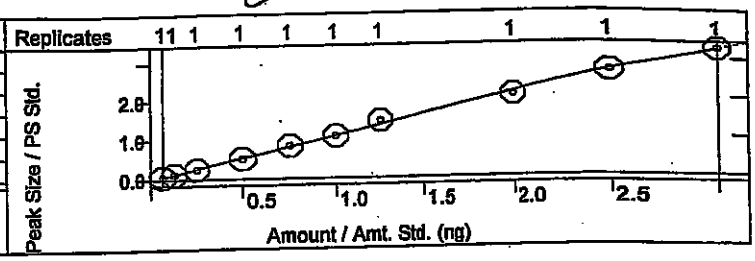
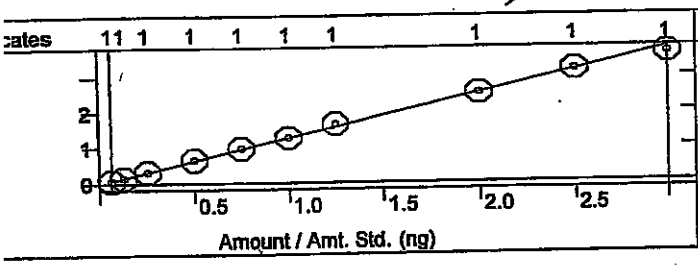
aphthylene
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
-0.0224x2 +2.0006x -0.0303

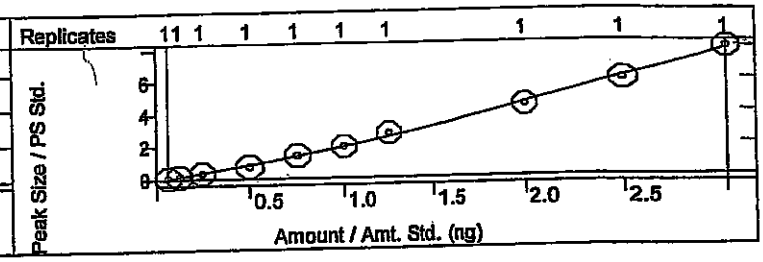




3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082

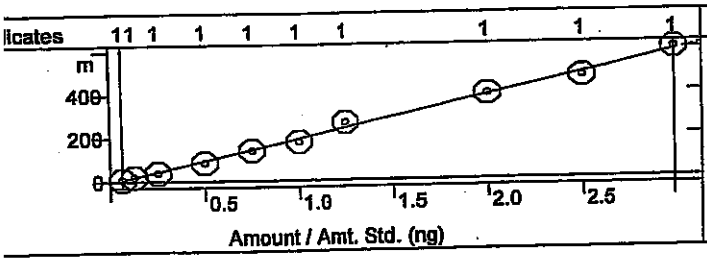
naphthene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
+1.2637x -5.2278e-4

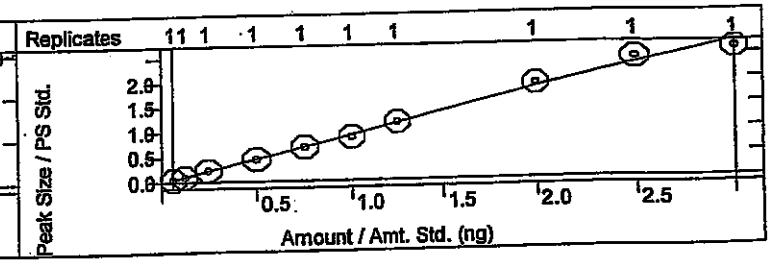




2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504

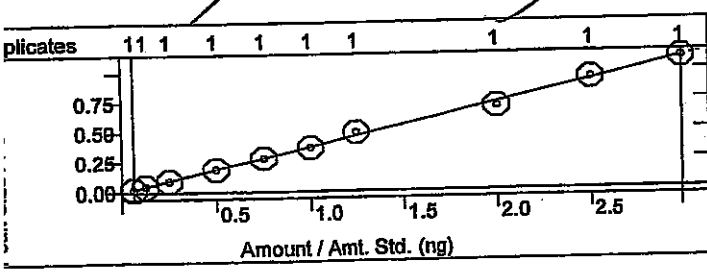
litrophenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
+0.1978x -0.0058

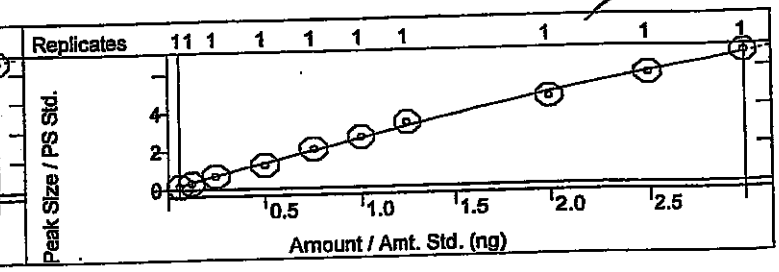




Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079

4-Dinitrotoluene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
= -0.0024x2 +0.3726x -8.6289e-4





Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097

ibration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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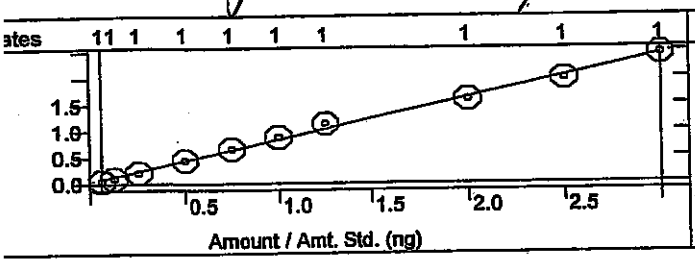
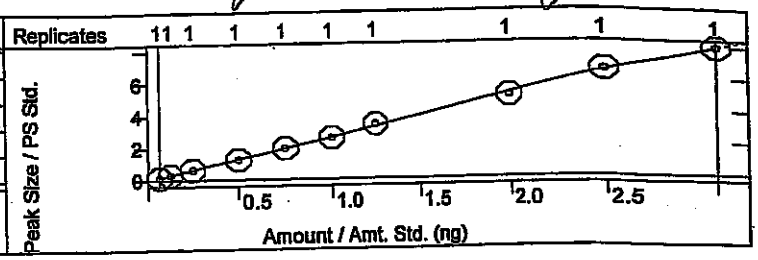
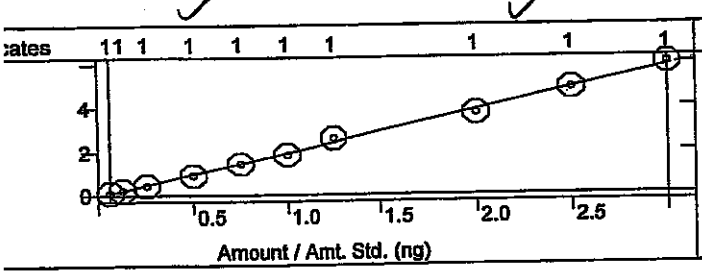
lorophenyl phenyl ether
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
+0.8008x +0.0369



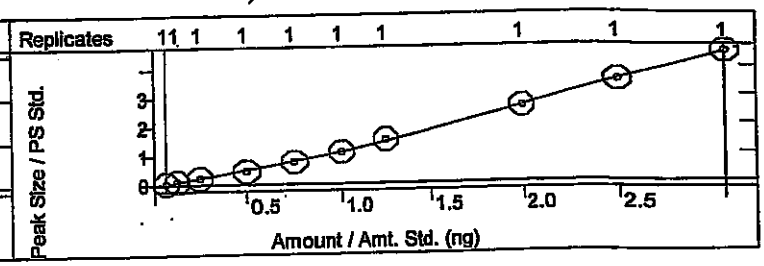
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



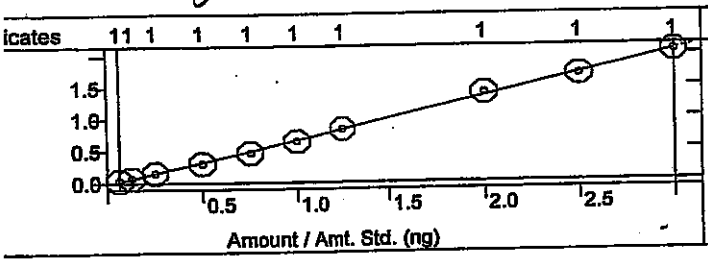
itroaniline
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
+1.9592x -0.0342



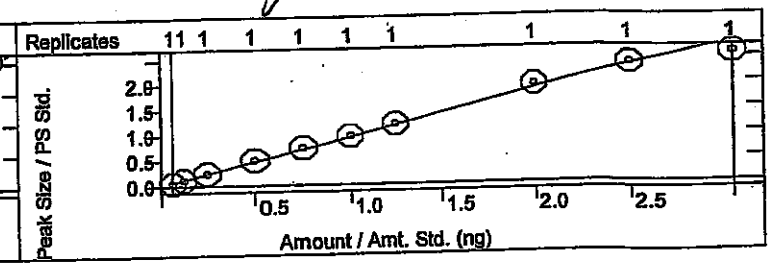
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



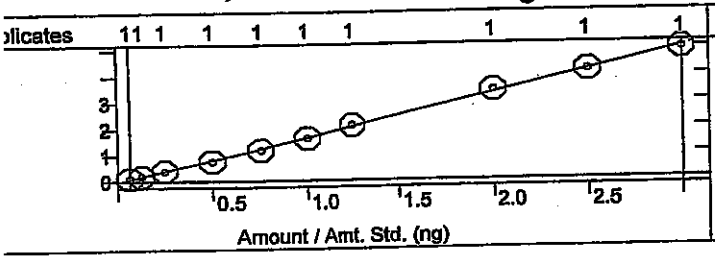
Nitrosodiphenylamine
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
+0.0060x2 +0.6726x -0.0178



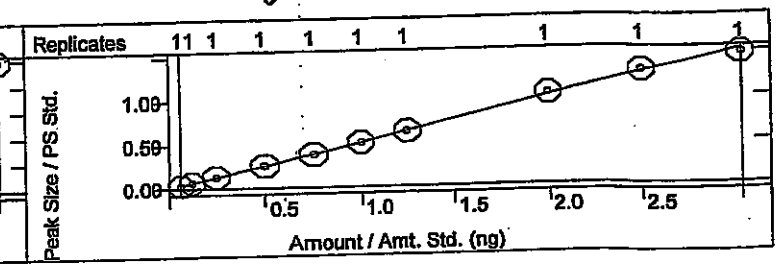
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



4,6-Tribromophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044

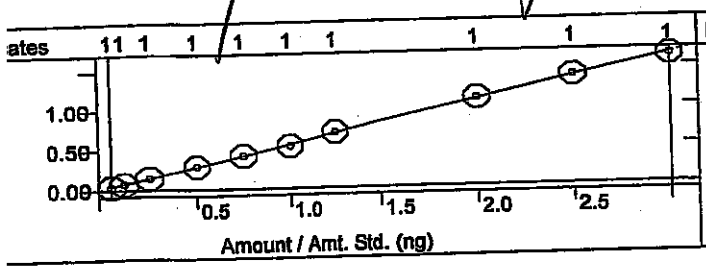


ibration Curves Report

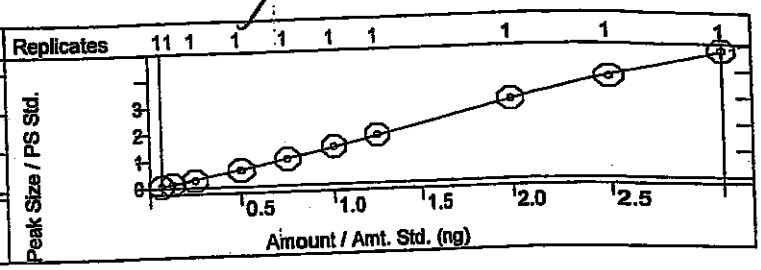
od:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
lc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ole List:	N/A	Detector:	2000 Mass Spec
ience:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
: Measurement:	Area		

JC 4-28-14

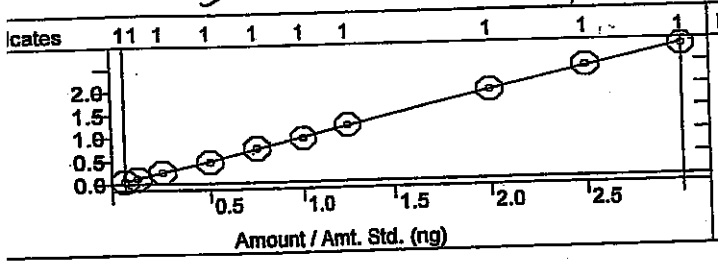
achlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
+0.5470x +0.0070



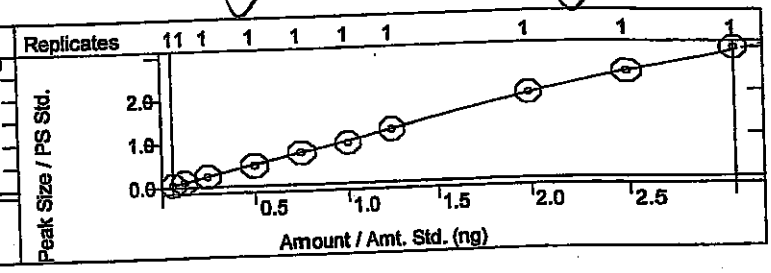
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



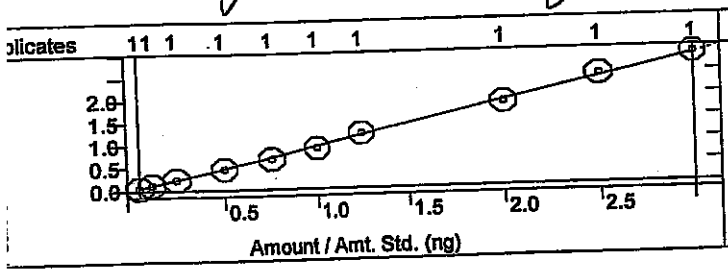
enanthrene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
+0.9606x +0.0012



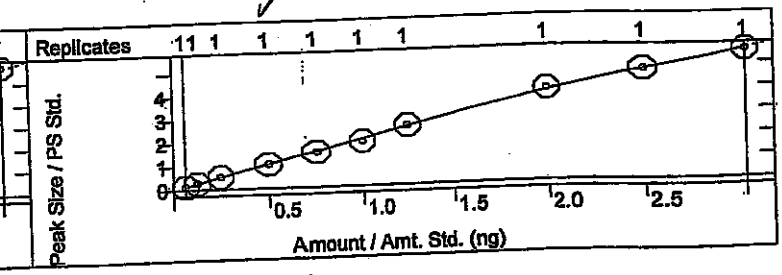
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



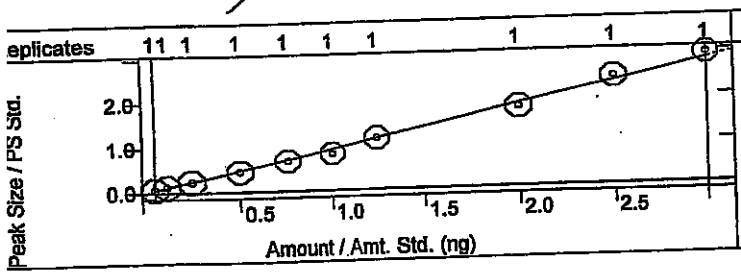
arbazole
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
= +0.9547x -0.0072



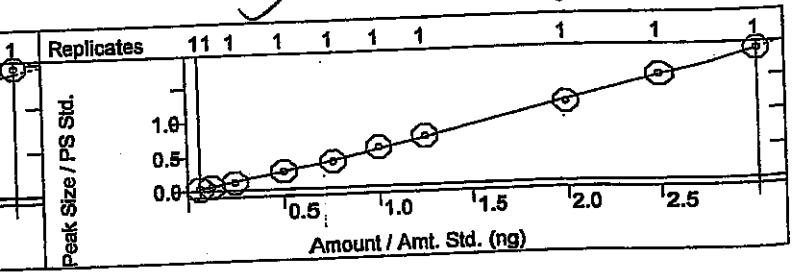
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



luoranthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
/ = +0.9392x -0.0094



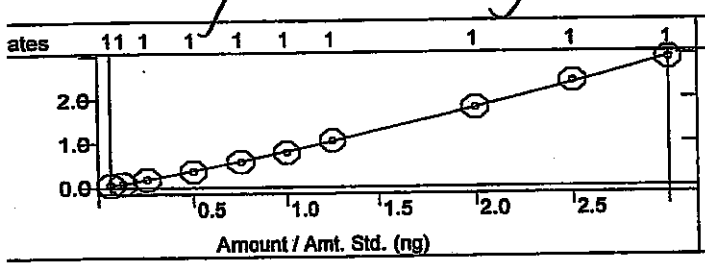
Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



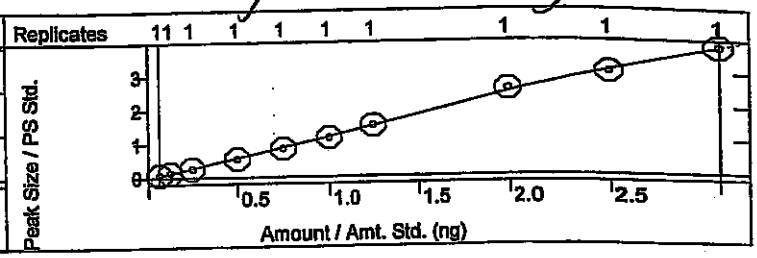
ibration Curves Report

iod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
t Measurement:	Area	Calibration Type:	Internal Standard Analysis

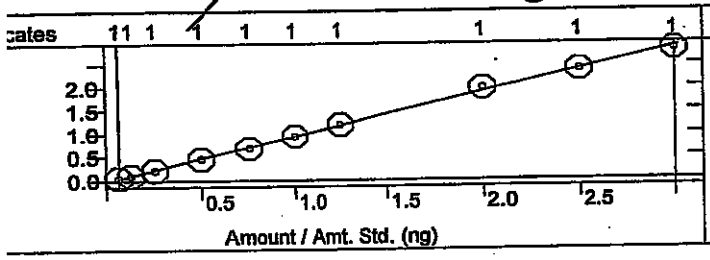
ene
ve Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
+0.0803x2 +0.7448x -0.0135



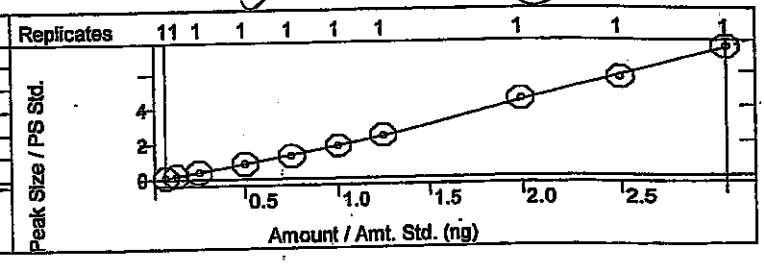
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



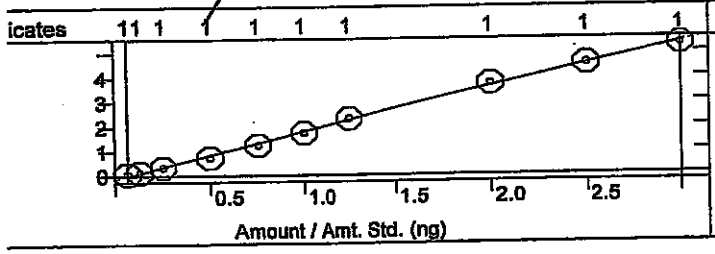
yl benzyl phthalate
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
+0.9570x -0.0113



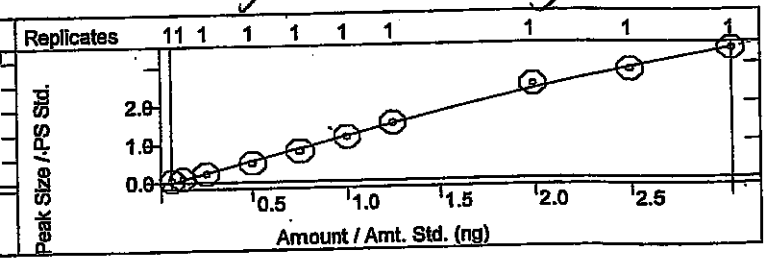
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



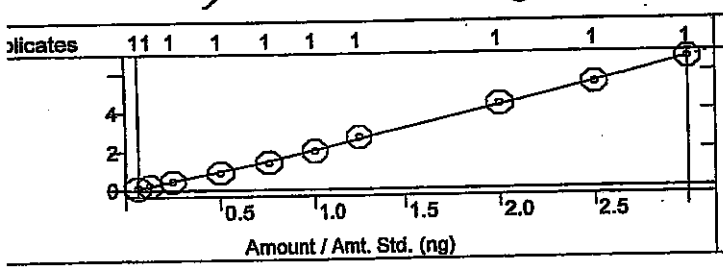
nz[a]anthracene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
-0.0513x2 +1.9866x -0.1374



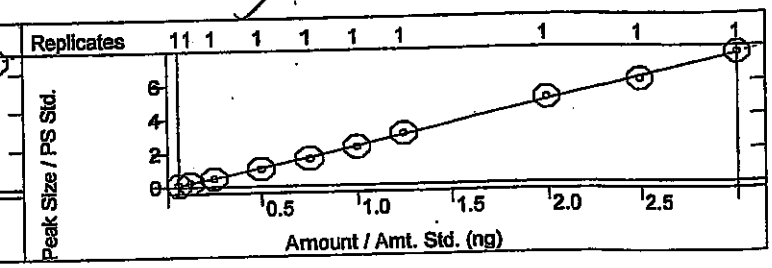
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



rysene
rve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
= +0.0641x2 +2.0511x -0.0655



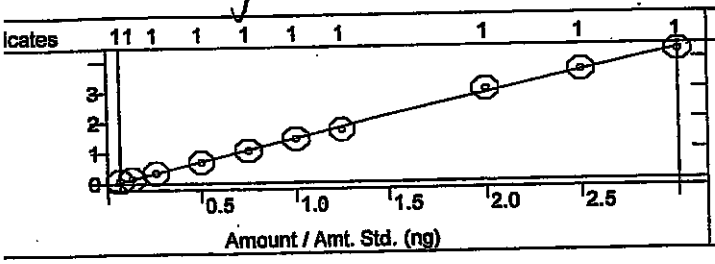
Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



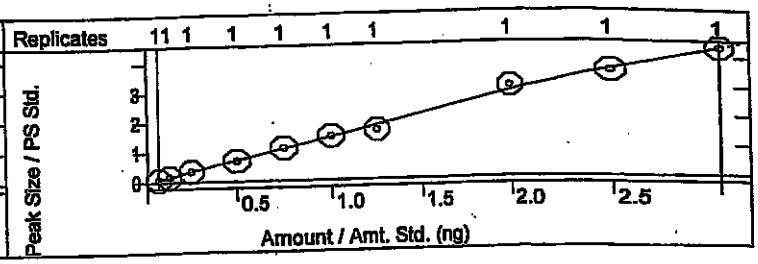
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
luence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

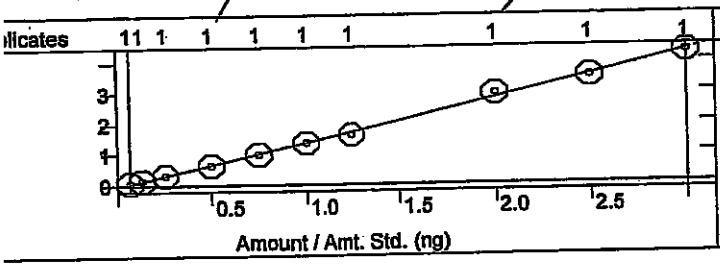
nzo(b)fluoranthene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
-0.0187x2 +1.5058x -0.0450



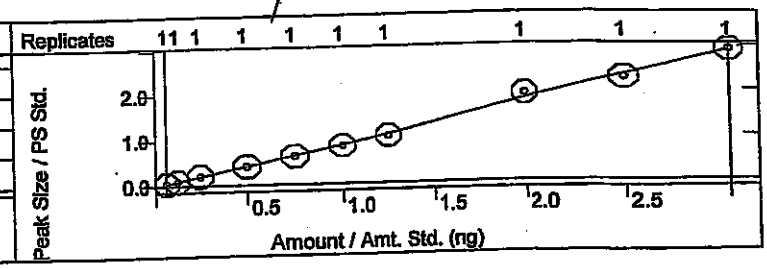
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4796x -0.0270



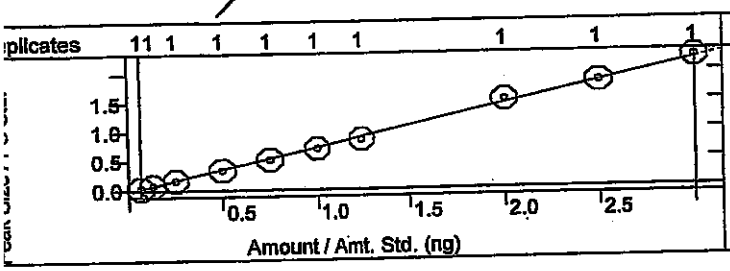
nzo[a]pyrene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



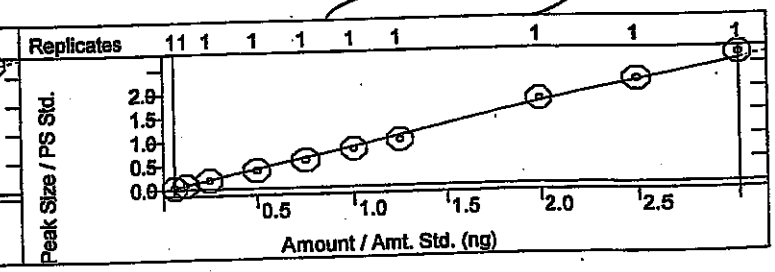
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



ibenz[a,h]anthracene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
= +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
RRF9 1.202 RRF10 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
RRF9 4.162 RRF10 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
RRF9 1.858 RRF10 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
RRF9 1.181 RRF10 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
RRF9 1.475 RRF10 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
RRF9 1.441 RRF10 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
RRF9 1.042 RRF10 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
RRF9 1.357 RRF10 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
RRF9 0.959 RRF10 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
RRF9 1.386 RRF10 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
RRF9 1.083 RRF10 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
RRF9 3.244 RRF10 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
RRF9 4.568 RRF10 4.415													

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JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS

Compound	RRF9	RRF10
Nitrobenzene-d5	0.291	0.280
Nitrobenzene	0.290	0.285
Isophorone	0.582	0.579
2-Nitrophenol	0.305	0.296
2,4-Dimethylphenol	0.365	0.355
Benzoic acid	2.443	2.488
Bis(2-chloroethoxy)methane	0.362	0.361
2,4-Dichlorophenol	0.350	0.345
1,2,4-Trichlorobenzene	0.320	0.322
Naphthalene	0.833	0.810
4-Chloroaniline	0.399	0.418
Hexachlorobutadiene	0.646	0.633
4-Chloro-3-methylphenol	0.407	0.415

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JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dd 4/1

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

50ppm crv.SMS

4/24

4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

4/25/2014 16:08

50ppm crv.SMS

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-24-14

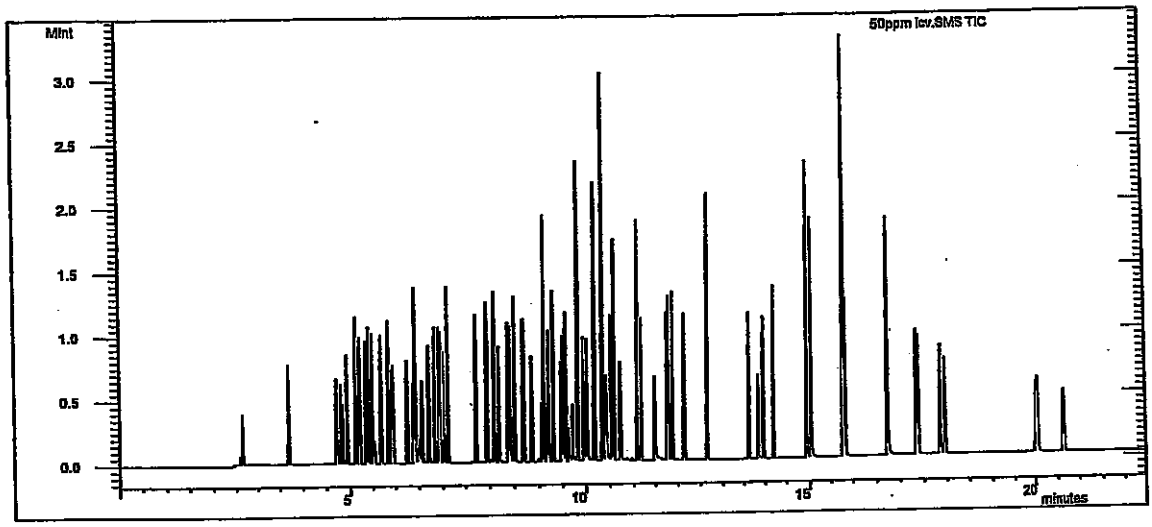
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-26-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****

Revision Log

****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

9/4/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409046**
Date Reported:

(4)

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409046

Lab ID: 1409046-001 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0054 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.3 ✓	0.26		mg/Kg	1	9/4/2014 10:21:10 AM	15088

9/4 2077
1021AM

Lab ID: 1409046-002 **Collection Date:** 9/2/2014 8:39:00 AM
Client Sample ID: FFOR-CF-0055 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.1 ✓	0.25		mg/Kg	1	9/4/2014 10:22:25 AM	15088

1022AM

Lab ID: 1409046-003 **Collection Date:** 9/2/2014 11:03:00 AM
Client Sample ID: FFOR-CF-0056 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.7 ✓	0.25		mg/Kg	1	9/4/2014 10:23:37 AM	15088

1023AM

Lab ID: 1409046-004 **Collection Date:** 9/2/2014 3:04:00 PM
Client Sample ID: FFOR-CF-0057 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.4 ✓	0.25		mg/Kg	1	9/4/2014 10:24:53 AM	15088

1024AM

Lab ID: 1409046-005 **Collection Date:** 9/2/2014 3:10:00 PM
Client Sample ID: FFOR-CF-0058 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	5.5 ✓	0.25		mg/Kg	1	9/4/2014 10:26:08 AM	15088

1026AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409046
Project: Kirtland AFB

Lab ID: 1409046-006 **Collection Date:** 9/2/2014 3:15:00 PM
Client Sample ID: FFOR-CF-0059 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	17 ✓	0.25		mg/Kg	1	9/4/2014 10:27:23 AM	15088

1027AM

Lab ID: 1409046-007 **Collection Date:** 9/2/2014 3:58:00 PM
Client Sample ID: FFOR-CF-0060 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	9.3 ✓	0.50		mg/Kg	2	9/4/2014 10:39:30 AM	15088

1030AM
1039AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 9/3/14

QA'd/Date: DBS 9/4/14

Prep Start Date: **9/3/2014 11:41:21 A**
Prep End Date:

Prep Batch ID **15088** Prep Code: **3050**

Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15088		Soil			1.0072	0	0	50	50.000	9/3/2014	
LCS-15088		Soil			1.9640	0	0	50	50.000	9/3/2014	
1409046-001A	FFOR-CF-0054	MeOH (Soil)			1.9594	0	0	50	50.000	9/3/2014	
1409046-002A	FFOR-CF-0055	MeOH (Soil)			1.0135	0	0	50	50.000	9/3/2014	
1409046-003A	FFOR-CF-0056	MeOH (Soil)			1.9808	0	0	50	50.000	9/3/2014	
1409046-004A	FFOR-CF-0057	MeOH (Soil)			1.0104	0	0	50	50.000	9/3/2014	
1409046-005A	FFOR-CF-0058	MeOH (Soil)			1.9999	0	0	50	50.000	9/3/2014	
1409046-006A	FFOR-CF-0059	MeOH (Soil)			1.0201	0	0	50	50.000	9/3/2014	
1409046-007A	FFOR-CF-0060	MeOH (Soil)			1.9993	0	0	50	50.000	9/3/2014	
1409046-007AMS		MeOH (Soil)			1.0352	0	0	50	50.000	9/3/2014	
1409046-007AMSD		MeOH (Soil)			1.9969	0	0	50	50.000	9/3/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		150888		

Chemicals/Reagents:

	Tubes /		Tubes /	4703	Tubes 1/1		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 3/3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1/5		HCl /		HCl /
	Filters /		Filters /	4723	Filters 1/1		Filters /		Filters /
				4684	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawan Position: D4	Digestion Block: Position:
Therm ID: DBT-24 Calibration Exp: 9/27/15	Therm ID: Calibration Exp:
Temp: 92.9°C CF: -0 °C Corr. Temp: = 92.9 °C	Temp: °C CF: °C Corr. Temp: = °C
Analyst: MD Date/Time: 9/3/14 15:23	Analyst: Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5008 Rm Temp (°C): 20.9 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

250µL Pipette No.: P15 Wt. DI (g): 0.2501 Rm Temp (°C): 20.9 Analyst: MD

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 9/3/14 QA'd/Date: DRO 9/4/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20977

ICP-OES Analysis Summary

Data Imported By: EL 9/4/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: 1515

Results Data Set: 090414 B15088 Prep Batch ID: 15088

Calibration

	Standard ID
ST1	ST6010- 14379
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14352

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- EL 9/4/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14362
ICV CAT	ST6010- N/A
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14257	~~Custom Spike 1101~~ Custom STD 1102	~~100µL~~ 50µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No:	P02	Spike Volume:	50µL	Wt DI (g):	0.0497	Rm Temp (°C):	21.3	Analyst:	EL
Pipette No:	P30	Spike Volume:	500µL	Wt DI (g):	0.5023	Rm Temp (°C):	21.3	Analyst:	EL
Pipette No:	P35	Spike Volume:	1mL	Wt DI (g):	1.0047	Rm Temp (°C):	21.3	Analyst:	EL
Pipette No:	P11	Spike Volume:	100µL	Wt DI (g):	0.1017	Rm Temp (°C):	21.3	Analyst:	EL

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
SE	1409074-001A	0.7744	50mL	50mL	5x	3.873	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result mg/L

Analyst/Date: EL 9/4/14 Qa'd by/Date: [signature] 9/4/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: [signature] and [signature].

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Sample Information Detail Report
Document Name: 090414 B15088

File Description
Hall Design

Parameters Common to All Samples

Batch ID	090414 B15088
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-15088	MBLK
2	302	LCS-15088	LCS
3	303	MB-15099	MBLK
4	304	LCS-15099	LCS
5	305	MB-15094	MBLK
6	306	LCS-15094	LCS
7	307	1409074-001A 5X	SAMP
8	308	1409074-002A	SAMP
9	309	1409074-002AMS	MS
10	310	1409074-002AMSD	MSD
11	311	1408F14-001A	SAMP
12	312	1408F14-002A	SAMP
13	313	1408F15-001A	SAMP
14	314	1408F15-002A	SAMP
15	315	1408F15-003A	SAMP
16	316	1408F15-004A	SAMP
17	317	1408F15-005A	SAMP
18	318	1408F15-005AMS	MS
19	319	1408F15-005AMSD	MSD
20	320	1408F15-006A	SAMP
21	321	1408D46-001B	SAMP
22	322	1408D46-001BMS	MS
23	323	1408D46-001BMSD	MSD
24	324	1408D46-001BPS	PS
25	325	1409046-001A	SAMP
26	326	1409046-002A	SAMP
27	327	1409046-003A	SAMP
28	328	1409046-004A	SAMP
29	329	1409046-005A	SAMP
30	330	1409046-006A	SAMP
31	331	1409046-007A	SAMP
32	332	1409046-007AMS	MS
33	333	1409046-007AMSD	MSD
34	334	1408F23-002A	SAMP
35	335	1408F23-002AMS	MS
36	336	1408F23-002AMSD	MSD
37	337	1408F23-002APS	PS
39	338	1409046-007A 2x	SAMP
40	339	1409046-007AMS 2x	MS
41	340	1409046-007AMSD 2x	MSD
42	341	1409046-007APS 2x	PS

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP	Recovery 1 of 3	
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS	Recovery 1 of 5	
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS		
9	NAVAJO_TOTAL METALS	Recovery 1 of 8	
10	NAVAJO_TOTAL METALS	Recovery 1 of 8	
11	METALS_TCLP		

12	METALS_TCLP	
13	METALS_TCLP	
14	METALS_TCLP	
15	METALS_TCLP	
16	METALS_TCLP	
17	METALS_TCLP	
18	METALS_TCLP	Recovery 1 of 17
19	METALS_TCLP	Recovery 1 of 17
20	METALS_TCLP	
21	METALS_TCLP	
22	METALS_TCLP	Recovery 1 of 21
23	METALS_TCLP	Recovery 1 of 21
24	METALS_TCLP	Recovery 1 of 21
25	METALS_SOIL	
26	METALS_SOIL	
27	METALS_SOIL	
28	METALS_SOIL	
29	METALS_SOIL	
30	METALS_SOIL	
31	METALS_SOIL	
32	METALS_SOIL	Recovery 1 of 31
33	METALS_SOIL	Recovery 1 of 31
34	METALS_SOIL	
35	METALS_SOIL	Recovery 1 of 34
36	METALS_SOIL	Recovery 1 of 34
37	METALS_SOIL	Recovery 1 of 34
39	METALS_SOIL	
40	METALS_SOIL	
41	METALS_SOIL	
42	METALS_SOIL	

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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28			
29			
30			
31			
32			
33			
34			
35			

Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	301	MB-15088	Analyzed
17	302	LCS-15088	Analyzed
18	303	MB-15099	Analyzed
19	304	LCS-15099	Analyzed
20	305	MB-15094	Analyzed
21	306	LCS-15094	Analyzed
22	307	1409074-001A 5X	Analyzed
23	308	1409074-002A	Analyzed
24	309	1409074-002AMS	Analyzed
25	310	1409074-002AMSD	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	311	1408F14-001A	Analyzed
30	312	1408F14-002A	Analyzed
31	313	1408F15-001A	Analyzed
32	314	1408F15-002A	Analyzed
33	315	1408F15-003A	Analyzed
34	316	1408F15-004A	Analyzed
35	317	1408F15-005A	Analyzed
36	318	1408F15-005AMS	Analyzed
37	319	1408F15-005AMSD	Analyzed
38	320	1408F15-006A	Samp Limit Failed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	321	1408D46-001B	Samp Limit Failed
43	322	1408D46-001BMS	Analyzed
44	323	1408D46-001BMSD	Analyzed
45	324	1408D46-001BPS	Analyzed
46	325	1409046-001A	Analyzed
47	326	1409046-002A	Samp Limit Failed
48	327	1409046-003A	Samp Limit Failed
49	328	1409046-004A	Samp Limit Failed
50	329	1409046-005A	Samp Limit Failed
51	330	1409046-006A	Analyzed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	
55	331	1409046-007A	Samp Limit Failed

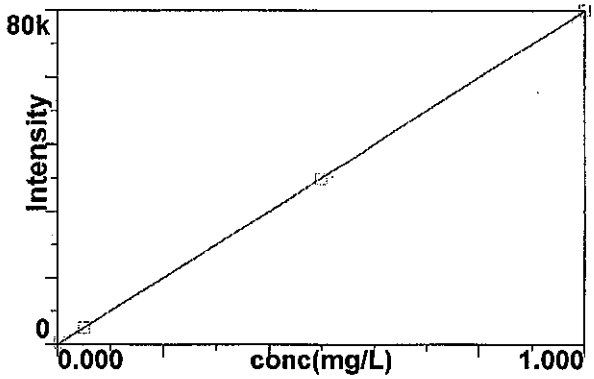
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
56	332		1409046-007AMS	IS Check Failed
57	333		1409046-007AMSD	Analyzed
58	334		1408F23-002A	Analyzed
59	3	QC	CCV CAT	
60	335		1408F23-002AMS	Analyzed
61	336		1408F23-002AMSD	Analyzed
62	337		1408F23-002APS	Analyzed
63	338		1409046-007A 2x	Analyzed
64	339		1409046-007AMS 2x	Analyzed
65	340		1409046-007AMSD 2x	Analyzed
66	2	QC	CCV	QC Passed
67	1	QC	CCB	QC Passed
68	341		1409046-007APS 2x	Analyzed
69	2	QC	CCV	QC Passed
70	1	QC	CCB	QC Passed
71	3	QC	CCV CAT	
72	7	QC	DI RINSE	QC Passed

Method: ISIS 080714 6010SOIL
Result: 090414 B15088

Ag 328.068



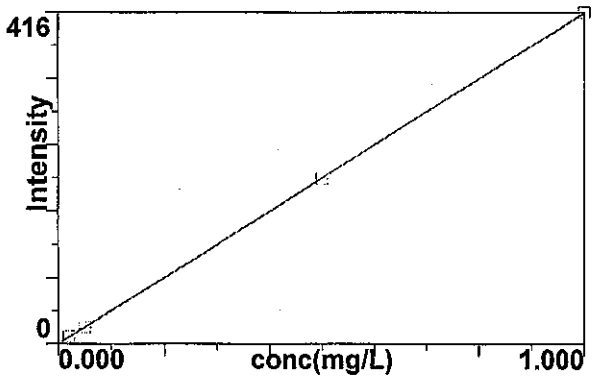
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

1

Al 396.153

2

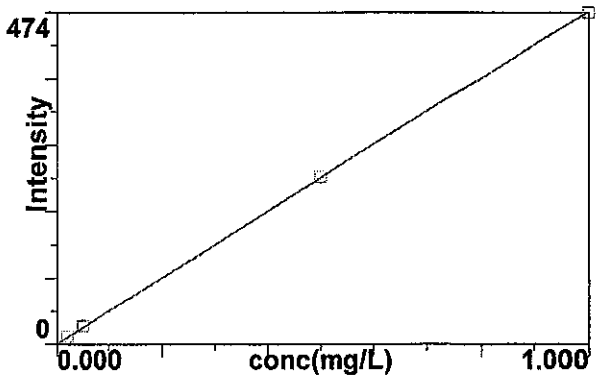
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999981

4

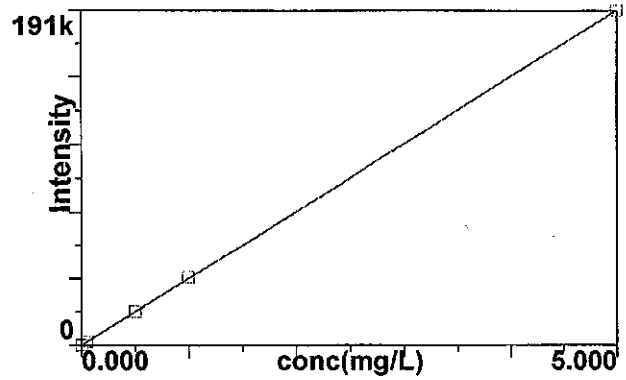
B 249.772

5

B 249.677

6

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

7

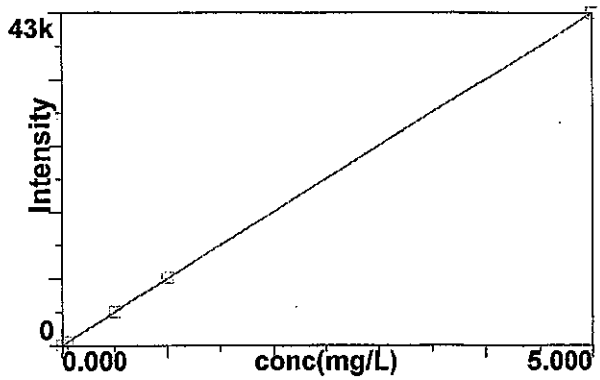
Be 313.107

8

Ca 317.933

9

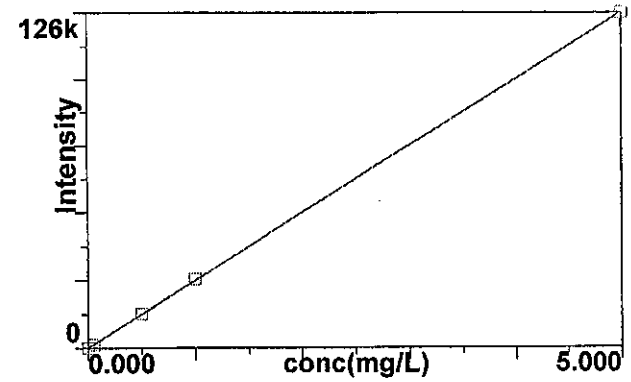
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

10

Cd 226.502



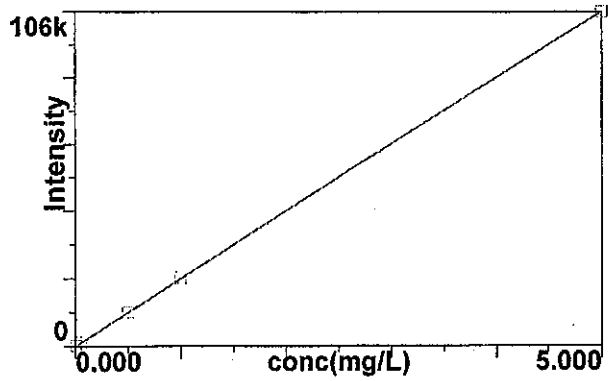
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

11

Co 228.616

12

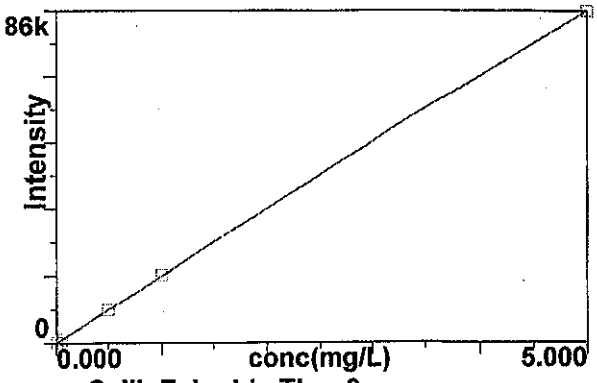
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

14

Cu 324.752

15

Fe 238.204

16

K 766.490

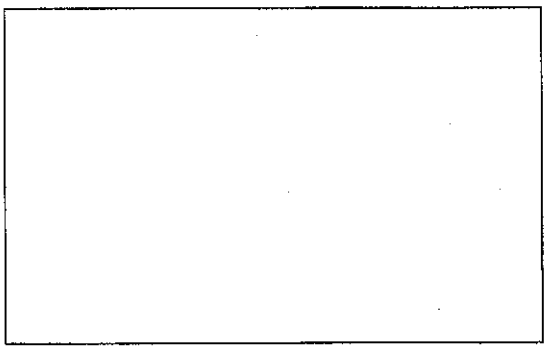
17

Mg 285.213

18

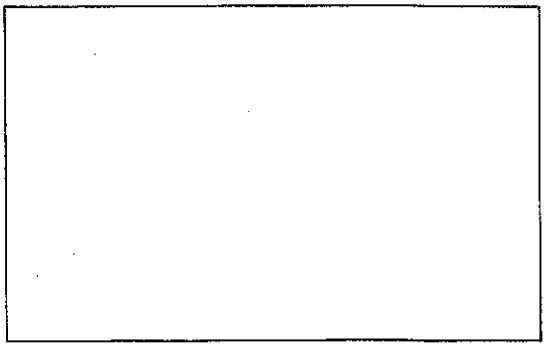
Method: ISIS 080714 6010SOIL
Result: 090414 B15088

Mn 257.610



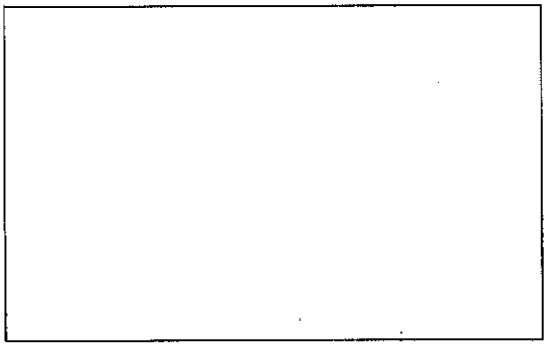
19

Mo 202.031



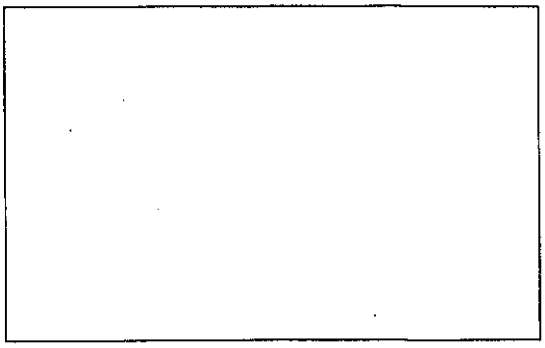
20

Na 589.592



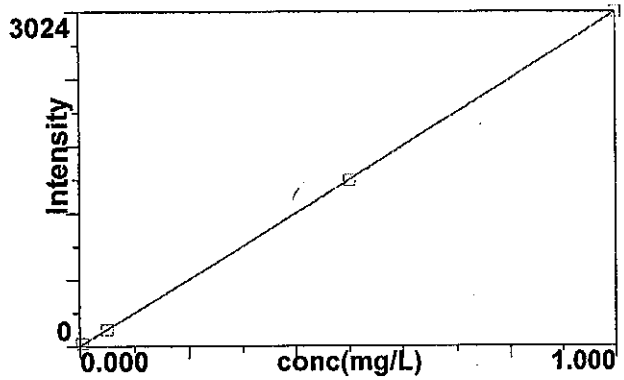
21

Ni 231.604



22

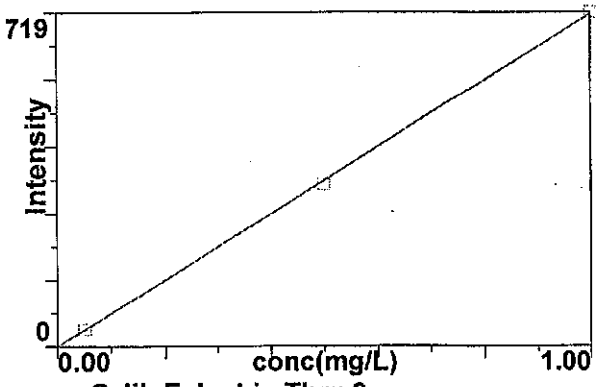
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

23

Pb 217.000



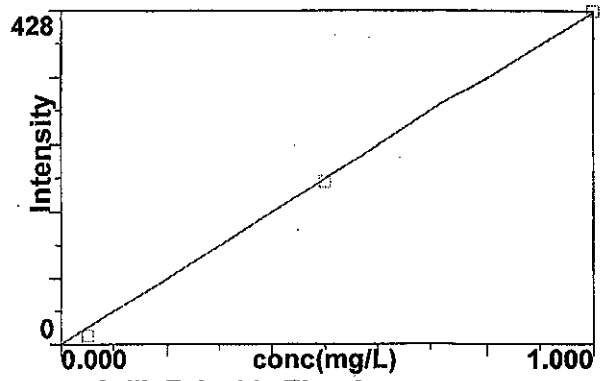
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999933

24

Sb 206.836

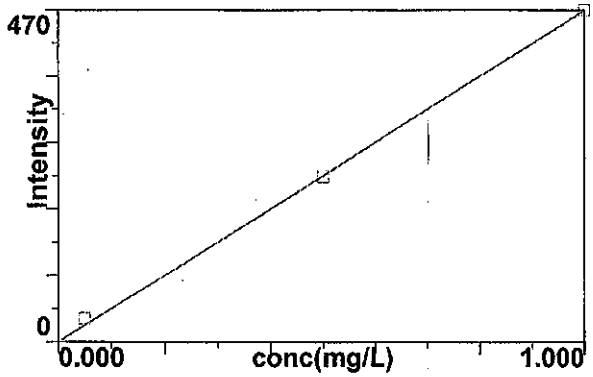
25

Se 203.985



26

Se 196.026



27

Si 212.412

28

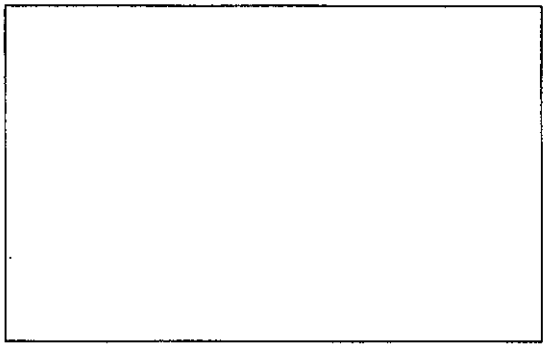
Sn 189.927

29

Ti 334.940

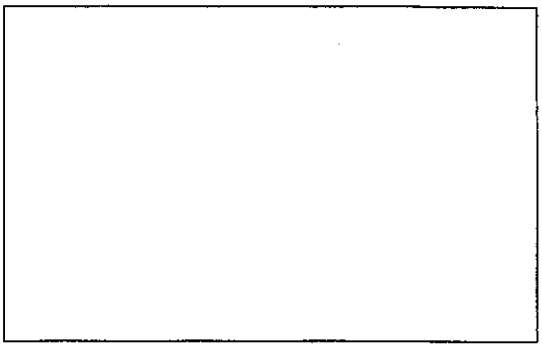
30

Tl 190.801



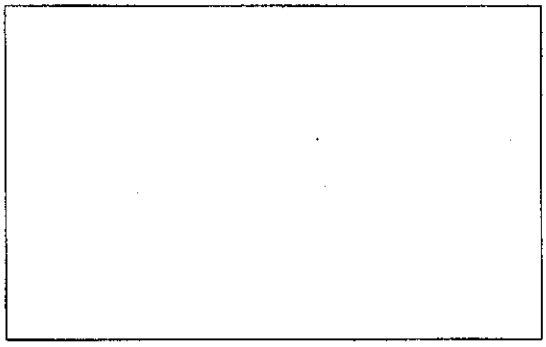
31

U 385.958



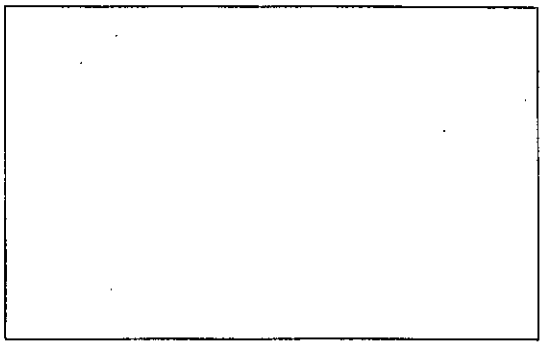
32

V 292.402



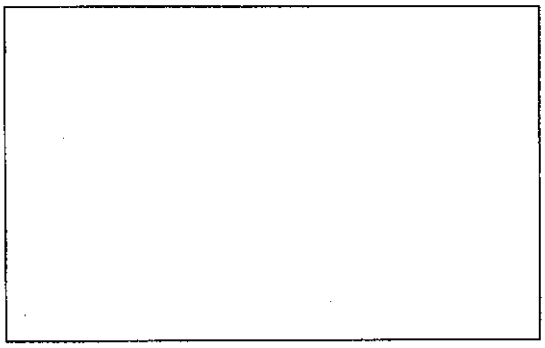
33

Zn 206.200



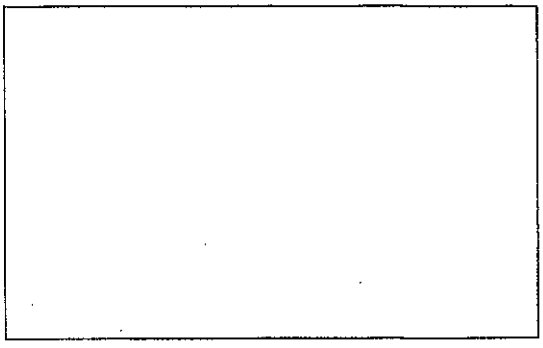
36

Sr 421.552



37

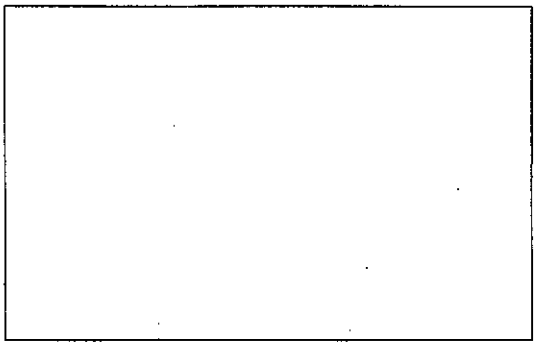
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 090414 B15088

U 424.167



39

Analysis Begun

Start Time: 9/4/2014 9:29:02 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/4/2014 7:18:01 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/4/2014 9:29:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	571682.5	1007.81	0.18%	100.00	%
Ag 328.068†	14.3	16.47	115.55%	[0.00]	mg/L
As 188.979†	6.3	2.57	40.59%	[0.00]	mg/L
As 193.696†	-7.5	2.45	32.60%	[0.00]	mg/L
Ba 233.527†	2.1	7.34	352.97%	[0.00]	mg/L
Cd 228.802†	-16.5	1.81	10.94%	[0.00]	mg/L
Cd 226.502†	25.1	2.54	10.13%	[0.00]	mg/L
Cr 267.716†	-1.7	6.05	364.32%	[0.00]	mg/L
Cr 205.560†	-31.5	7.35	23.33%	[0.00]	mg/L
Pb 220.353†	-24.4	6.69	27.45%	[0.00]	mg/L
Pb 217.000†	4.5	9.80	215.29%	[0.00]	mg/L
Se 203.985†	8.0	6.04	75.98%	[0.00]	mg/L
Se 196.026†	-17.4	7.06	40.65%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 9/4/2014 9:30:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	554222.7	1290.38	0.23%	96.946	%
Ag 328.068†	416.2	15.35	3.69%	[0.005]	mg/L
As 188.979†	9.0	1.01	11.26%	[0.02]	mg/L

As 193.696†	10.8	0.89	8.27%	[0.02] mg/L
Ba 233.527†	77.9	7.68	9.85%	[0.002] mg/L
Cd 228.802†	17.0	1.90	11.20%	[0.002] mg/L
Cd 226.502†	45.8	6.86	14.99%	[0.002] mg/L
Cr 267.716†	133.1	7.13	5.35%	[0.006] mg/L
Cr 205.560†	101.5	6.51	6.42%	[0.006] mg/L
Pb 220.353†	21.8	6.40	29.33%	[0.005] mg/L

Sequence No.: 3 **Autosampler Location: 409**
Sample ID: ST2 **Date Collected: 9/4/2014 9:31:41 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	562295.4	6075.79	1.08%	98.358	%
Ag 328.068†	3984.2	20.90	0.52%	[0.05]	mg/L
As 188.979†	20.4	0.85	4.17%	[0.050]	mg/L
As 193.696†	26.4	2.47	9.37%	[0.050]	mg/L
Ba 233.527†	1949.2	14.52	0.75%	[0.05]	mg/L
Cd 228.802†	439.4	5.20	1.18%	[0.05]	mg/L
Cd 226.502†	1261.5	13.09	1.04%	[0.05]	mg/L
Cr 267.716†	1077.3	10.53	0.98%	[0.05]	mg/L
Cr 205.560†	869.1	18.01	2.07%	[0.05]	mg/L
Pb 220.353†	148.9	1.75	1.17%	[0.05]	mg/L
Pb 217.000†	36.9	9.18	24.86%	[0.05]	mg/L
Se 203.985†	10.7	4.00	37.34%	[0.050]	mg/L
Se 196.026†	33.0	4.35	13.16%	[0.050]	mg/L

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 9/4/2014 9:32:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	558950.0	4173.00	0.75%	97.773	%
Ag 328.068†	39726.8	76.57	0.19%	[0.50]	mg/L
As 188.979†	207.1	2.87	1.38%	[0.50]	mg/L
As 193.696†	238.9	3.26	1.36%	[0.50]	mg/L
Ba 233.527†	19306.4	54.97	0.28%	[0.50]	mg/L
Cd 228.802†	4367.5	57.94	1.33%	[0.50]	mg/L
Cd 226.502†	12700.3	33.76	0.27%	[0.50]	mg/L
Cr 267.716†	10698.9	9.97	0.09%	[0.50]	mg/L
Cr 205.560†	8611.1	123.16	1.43%	[0.50]	mg/L
Pb 220.353†	1506.4	14.18	0.94%	[0.50]	mg/L
Pb 217.000†	349.1	9.31	2.67%	[0.50]	mg/L
Se 203.985†	209.7	9.80	4.68%	[0.50]	mg/L
Se 196.026†	233.2	4.67	2.00%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 9/4/2014 9:34:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	565318.2	4820.15	0.85%	98.887	%
Ag 328.068†	79929.5	327.21	0.41%	[1.00]	mg/L
As 188.979†	416.1	6.32	1.52%	[1.00]	mg/L
As 193.696†	474.3	11.22	2.37%	[1.00]	mg/L
Ba 233.527†	38811.0	153.96	0.40%	[1.00]	mg/L
Cd 228.802†	8748.4	92.22	1.05%	[1.00]	mg/L
Cd 226.502†	25738.3	40.39	0.16%	[1.00]	mg/L
Cr 267.716†	21556.9	42.43	0.20%	[1.00]	mg/L
Cr 205.560†	17498.1	13.21	0.08%	[1.00]	mg/L
Pb 220.353†	3024.1	36.89	1.22%	[1.00]	mg/L
Pb 217.000†	718.8	16.17	2.25%	[1.00]	mg/L
Se 203.985†	428.1	14.33	3.35%	[1.00]	mg/L
Se 196.026†	469.9	4.92	1.05%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 9/4/2014 9:35:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

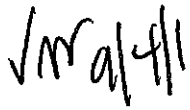
Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	563819.1	374.23	0.07%	98.625	%
Ba 233.527†	190538.1	141.20	0.07%	[5.00]	mg/L
Cd 228.802†	43123.0	100.30	0.23%	[5.00]	mg/L
Cd 226.502†	126232.5	236.49	0.19%	[5.00]	mg/L
Cr 267.716†	106398.9	249.54	0.23%	[5.00]	mg/L
Cr 205.560†	86242.6	128.13	0.15%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	79830	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	415.7	0.00000	0.999997	
As 193.696	4	Lin Thru 0	0.0	475.1	0.00000	0.999981	
Ba 233.527	5	Lin Thru 0	0.0	38140	0.00000	0.999993	
Cd 228.802	5	Lin Thru 0	0.0	8630	0.00000	0.999996	
Cd 226.502	5	Lin Thru 0	0.0	25270	0.00000	0.999993	
Cr 267.716	5	Lin Thru 0	0.0	21290	0.00000	0.999997	
Cr 205.560	5	Lin Thru 0	0.0	17260	0.00000	0.999996	
Pb 220.353	4	Lin Thru 0	0.0	3022	0.00000	0.999997	
Pb 217.000	3	Lin Thru 0	0.0	714.8	0.00000	0.999933	
Se 203.985	3	Lin Thru 0	0.0	425.9	0.00000	0.999720	



Se 196.026 3 Lin Thru 0 0.0 469.6 0.00000 0.999830
User canceled analysis.

Analysis Begun

Start Time: 9/4/2014 9:36:19 AM **Plasma On Time: 9/4/2014 7:18:01 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 9/4/2014 9:36:19 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	564976.1	98.827	%	0.3917				0.40%
Ag 328.068†	39446.7	0.49411	mg/L	0.001926	0.49411	mg/L	0.001926	0.39%
QC value within limits for Ag 328.068 Recovery = 98.82%								
As 188.979†	208.6	0.50178	mg/L	0.009519	0.50178	mg/L	0.009519	1.90%
QC value within limits for As 188.979 Recovery = 100.36%								
As 193.696†	243.9	0.51329	mg/L	0.006542	0.51329	mg/L	0.006542	1.27%
Ba 233.527†	19313.2	0.50639	mg/L	0.001117	0.50639	mg/L	0.001117	0.22%
QC value within limits for Ba 233.527 Recovery = 101.28%								
Cd 228.802†	4382.4	0.50779	mg/L	0.002071	0.50779	mg/L	0.002071	0.41%
QC value within limits for Cd 228.802 Recovery = 101.56%								
Cd 226.502†	12740.9	0.50426	mg/L	0.002485	0.50426	mg/L	0.002485	0.49%
Cr 267.716†	10609.6	0.49830	mg/L	0.001280	0.49830	mg/L	0.001280	0.26%
Cr 205.560†	8650.8	0.50127	mg/L	0.000811	0.50127	mg/L	0.000811	0.16%
QC value within limits for Cr 205.560 Recovery = 100.25%								
Pb 220.353†	1531.5	0.50682	mg/L	0.001790	0.50682	mg/L	0.001790	0.35%
QC value within limits for Pb 220.353 Recovery = 101.36%								
Pb 217.000†	367.2	0.51370	mg/L	0.002128	0.51370	mg/L	0.002128	0.41%
Se 203.985†	207.7	0.48763	mg/L	0.006453	0.48763	mg/L	0.006453	1.32%
Se 196.026†	242.1	0.51550	mg/L	0.008961	0.51550	mg/L	0.008961	1.74%
QC value within limits for Se 196.026 Recovery = 103.10%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/4/2014 9:37:20 AM **Plasma On Time: 9/4/2014 7:18:01 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 9/4/2014 9:37:20 AM**

Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	560205.3	97.992	%	0.4835				0.49%
Ag 328.068†	14.8	0.00019	mg/L	0.000167	0.00019	mg/L	0.000167	89.79%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.3	0.00565	mg/L	0.004290	0.00565	mg/L	0.004290	75.96%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.3	-0.00055	mg/L	0.003862	-0.00055	mg/L	0.003862	706.78%
Ba 233.527†	19.5	0.00051	mg/L	0.000153	0.00051	mg/L	0.000153	29.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	4.4	0.00051	mg/L	0.000399	0.00051	mg/L	0.000399	78.94%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	9.8	0.00039	mg/L	0.000234	0.00039	mg/L	0.000234	60.48%
Cr 267.716†	10.7	0.00050	mg/L	0.000224	0.00050	mg/L	0.000224	44.55%
Cr 205.560†	5.0	0.00029	mg/L	0.000169	0.00029	mg/L	0.000169	57.95%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	8.5	0.00281	mg/L	0.001972	0.00281	mg/L	0.001972	70.25%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	0.8	0.00106	mg/L	0.005592	0.00106	mg/L	0.005592	525.34%
Se 203.985†	-2.3	-0.00529	mg/L	0.008431	-0.00529	mg/L	0.008431	159.46%
Se 196.026†	4.2	0.00899	mg/L	0.003851	0.00899	mg/L	0.003851	42.82%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13 **Autosampler Location: 408**
Sample ID: PQL CHECK **Date Collected: 9/4/2014 9:38:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	561877.6	98.285	%	0.8304				0.84%
Ag 328.068†	418.2	0.00524	mg/L	0.000251	0.00524	mg/L	0.000251	4.78%
QC value within limits for Ag 328.068 Recovery = 104.77%								
As 188.979†	8.6	0.02078	mg/L	0.012391	0.02078	mg/L	0.012391	59.64%
QC value within limits for As 188.979 Recovery = 103.88%								
As 193.696†	14.6	0.03073	mg/L	0.003294	0.03073	mg/L	0.003294	10.72%
Ba 233.527†	99.5	0.00261	mg/L	0.000624	0.00261	mg/L	0.000624	23.93%
QC value within limits for Ba 233.527 Recovery = 130.40%								
Cd 228.802†	22.4	0.00260	mg/L	0.000119	0.00260	mg/L	0.000119	4.59%
QC value within limits for Cd 228.802 Recovery = 129.88%								
Cd 226.502†	53.9	0.00213	mg/L	0.000069	0.00213	mg/L	0.000069	3.24%
Cr 267.716†	139.9	0.00657	mg/L	0.000082	0.00657	mg/L	0.000082	1.25%
Cr 205.560†	100.5	0.00583	mg/L	0.001204	0.00583	mg/L	0.001204	20.66%
QC value within limits for Cr 205.560 Recovery = 97.09%								
Pb 220.353†	17.8	0.00589	mg/L	0.000236	0.00589	mg/L	0.000236	4.01%
QC value within limits for Pb 220.353 Recovery = 117.73%								
Pb 217.000†	4.0	0.00564	mg/L	0.006184	0.00564	mg/L	0.006184	109.55%

Se 203.985†	17.1	0.04025 mg/L	0.014680	0.04025 mg/L	0.014680	36.47%
Se 196.026†	31.3	0.06657 mg/L	0.011187	0.06657 mg/L	0.011187	16.81%

QC value within limits for Se 196.026 Recovery = 133.14%
All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 9/4/2014 9:39:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	566409.2	99.078	%	0.9092				0.92%
Ag 328.068†	41130.8	0.51520	mg/L	0.001592	0.51520	mg/L	0.001592	0.31%
QC value within limits for Ag 328.068 Recovery = 103.04%								
As 188.979†	220.5	0.53040	mg/L	0.005773	0.53040	mg/L	0.005773	1.09%
QC value within limits for As 188.979 Recovery = 106.08%								
As 193.696†	208.7	0.43935	mg/L	0.011006	0.43935	mg/L	0.011006	2.51%
Ba 233.527†	19339.8	0.50708	mg/L	0.000825	0.50708	mg/L	0.000825	0.16%
QC value within limits for Ba 233.527 Recovery = 101.42%								
Cd 228.802†	4569.7	0.52949	mg/L	0.004895	0.52949	mg/L	0.004895	0.92%
QC value within limits for Cd 228.802 Recovery = 105.90%								
Cd 226.502†	13088.2	0.51800	mg/L	0.001233	0.51800	mg/L	0.001233	0.24%
Cr 267.716†	10644.4	0.49994	mg/L	0.000816	0.49994	mg/L	0.000816	0.16%
Cr 205.560†	8535.5	0.49459	mg/L	0.004050	0.49459	mg/L	0.004050	0.82%
QC value within limits for Cr 205.560 Recovery = 98.92%								
Pb 220.353†	1475.0	0.48811	mg/L	0.006898	0.48811	mg/L	0.006898	1.41%
QC value within limits for Pb 220.353 Recovery = 97.62%								
Pb 217.000†	382.0	0.53440	mg/L	0.008036	0.53440	mg/L	0.008036	1.50%
Se 203.985†	222.4	0.52209	mg/L	0.002627	0.52209	mg/L	0.002627	0.50%
Se 196.026†	257.5	0.54831	mg/L	0.029284	0.54831	mg/L	0.029284	5.34%
QC value within limits for Se 196.026 Recovery = 109.66%								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 9/4/2014 9:41:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	565964.0	99.000	%	0.8324				0.84%
Ag 328.068†	8.7	0.00011	mg/L	0.000067	0.00011	mg/L	0.000067	61.26%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.2	0.00295	mg/L	0.010658	0.00295	mg/L	0.010658	361.41%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-38.5	-0.08098	mg/L	0.010617	-0.08098	mg/L	0.010617	13.11%
Ba 233.527†	46.6	0.00122	mg/L	0.000223	0.00122	mg/L	0.000223	18.22%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-3.2	-0.00037	mg/L	0.000048	-0.00037	mg/L	0.000048	13.06%

QC value within limits for Cd 228.802 Recovery = Not calculated

Cd 226.502†	-4.8	-0.00019	mg/L	0.000152	-0.00019	mg/L	0.000152 79.84%
Cr 267.716†	5.0	0.00023	mg/L	0.000237	0.00023	mg/L	0.000237 101.69%
Cr 205.560†	-50.5	-0.00292	mg/L	0.000513	-0.00292	mg/L	0.000513 17.56%

QC value within limits for Cr 205.560 Recovery = Not calculated

Pb 220.353†	-30.8	-0.01020	mg/L	0.001627	-0.01020	mg/L	0.001627 15.95%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	12.8	0.01797	mg/L	0.004526	0.01797	mg/L	0.004526 25.19%
Se 203.985†	-25.1	-0.05887	mg/L	0.041767	-0.05887	mg/L	0.041767 70.95%
Se 196.026†	-8.7	-0.01852	mg/L	0.029553	-0.01852	mg/L	0.029553 159.53%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-15088
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 9/4/2014 9:42:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15088

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: MB-15088

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	552004.7	96.558	%	0.4285				0.44%
Ag 328.068†	12.8	0.00016	mg/L	0.000140	0.00016	mg/L	0.000140	87.02%
As 188.979†	1.2	0.00301	mg/L	0.002898	0.00301	mg/L	0.002898	96.39%
As 193.696†	0.1	0.00031	mg/L	0.009005	0.00031	mg/L	0.009005	>999.9%
Ba 233.527†	14.3	0.00037	mg/L	0.000365	0.00037	mg/L	0.000365	97.57%
Cd 228.802†	4.9	0.00056	mg/L	0.000643	0.00056	mg/L	0.000643	114.28%
Cd 226.502†	4.2	0.00016	mg/L	0.000105	0.00016	mg/L	0.000105	63.59%
Cr 267.716†	3.7	0.00017	mg/L	0.000083	0.00017	mg/L	0.000083	47.61%
Cr 205.560†	-2.8	-0.00016	mg/L	0.000751	-0.00016	mg/L	0.000751	460.10%
Pb 220.353†	6.5	0.00216	mg/L	0.004185	0.00216	mg/L	0.004185	194.01%
Pb 217.000†	-0.1	-0.00008	mg/L	0.000435	-0.00008	mg/L	0.000435	564.30%
Se 203.985†	-2.2	-0.00517	mg/L	0.007881	-0.00517	mg/L	0.007881	152.50%
Se 196.026†	4.4	0.00929	mg/L	0.007941	0.00929	mg/L	0.007941	85.48%

Sequence No.: 17
Sample ID: LCS-15088
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 9/4/2014 9:43:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15088

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: LCS-15088

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	548643.6	95.970	%	0.4701				0.49%
Ag 328.068†	40626.4	0.50888	mg/L	0.002058	0.50888	mg/L	0.002058	0.40%
As 188.979†	216.6	0.52090	mg/L	0.004573	0.52090	mg/L	0.004573	0.88%
As 193.696†	250.5	0.52723	mg/L	0.005878	0.52723	mg/L	0.005878	1.11%
Ba 233.527†	19050.1	0.49949	mg/L	0.002555	0.49949	mg/L	0.002555	0.51%
Cd 228.802†	4411.3	0.51113	mg/L	0.003061	0.51113	mg/L	0.003061	0.60%
Cd 226.502†	12732.5	0.50393	mg/L	0.001683	0.50393	mg/L	0.001683	0.33%
Cr 267.716†	10730.0	0.50396	mg/L	0.001673	0.50396	mg/L	0.001673	0.33%
Cr 205.560†	8704.7	0.50439	mg/L	0.002263	0.50439	mg/L	0.002263	0.45%

Pb 220.353†	1496.1	0.49512 mg/L	0.000970	0.49512 mg/L	0.000970	0.20%
Pb 217.000†	360.1	0.50388 mg/L	0.008053	0.50388 mg/L	0.008053	1.60%
Se 203.985†	196.6	0.46153 mg/L	0.025847	0.46153 mg/L	0.025847	5.60%
Se 196.026†	237.2	0.50517 mg/L	0.020747	0.50517 mg/L	0.020747	4.11%

Matrix Recovery Check: LCS-15088

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10016	0.50888	0.002	mg/L	508.7
As 188.979	0.50301	0.52090	0.005	mg/L	103.6
As 193.696	0.50031	0.52723	0.006	mg/L	105.4
Ba 233.527	0.50037	0.49949	0.003	mg/L	99.8
Cd 228.802	0.50056	0.51113	0.003	mg/L	102.1
Cd 226.502	0.50016	0.50393	0.002	mg/L	100.8
Cr 267.716	0.50017	0.50396	0.002	mg/L	100.8
Cr 205.560	0.49984	0.50439	0.002	mg/L	100.9
Pb 220.353	0.50216	0.49512	0.001	mg/L	98.6
Pb 217.000	0.49992	0.50388	0.008	mg/L	100.8
Se 203.985	0.49483	0.46153	0.026	mg/L	93.3
Se 196.026	0.50929	0.50517	0.021	mg/L	99.2

Sequence No.: 18
Sample ID: MB-15099
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 9/4/2014 9:44:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15099

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: MB-15099

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	534114.3	93.428	%	0.6106				0.65%
Ag 328.068†	14.0	0.00018	mg/L	0.000116	0.00018	mg/L	0.000116	66.33%
As 188.979†	2.2	0.00522	mg/L	0.003873	0.00522	mg/L	0.003873	74.25%
As 193.696†	-1.1	-0.00224	mg/L	0.009008	-0.00224	mg/L	0.009008	401.67%
Ba 233.527†	18.8	0.00049	mg/L	0.000071	0.00049	mg/L	0.000071	14.46%
Cd 228.802†	-1.0	-0.00012	mg/L	0.000443	-0.00012	mg/L	0.000443	374.61%
Cd 226.502†	3.5	0.00014	mg/L	0.000181	0.00014	mg/L	0.000181	131.19%
Cr 267.716†	11.2	0.00053	mg/L	0.000114	0.00053	mg/L	0.000114	21.60%
Cr 205.560†	0.9	0.00005	mg/L	0.000492	0.00005	mg/L	0.000492	988.62%
Pb 220.353†	5.8	0.00194	mg/L	0.002219	0.00194	mg/L	0.002219	114.67%
Pb 217.000†	-1.8	-0.00252	mg/L	0.010260	-0.00252	mg/L	0.010260	407.68%
Se 203.985†	-20.9	-0.04905	mg/L	0.009791	-0.04905	mg/L	0.009791	19.96%
Se 196.026†	2.0	0.00434	mg/L	0.015631	0.00434	mg/L	0.015631	359.80%

Sequence No.: 19
Sample ID: LCS-15099
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 9/4/2014 9:46:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15099

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: LCS-15099

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Ba 233.527	0.50941	0.49484	0.002	mg/L	97.1
Cd 228.802	0.50030	0.49275	0.002	mg/L	98.5
Cd 226.502	0.49942	0.48958	0.001	mg/L	98.0
Cr 267.716	0.66147	0.64115	0.002	mg/L	95.9
Cr 205.560	0.65644	0.63687	0.003	mg/L	96.1
Pb 220.353	0.50054	0.47688	0.004	mg/L	95.3
Pb 217.000	0.49807	0.49441	0.005	mg/L	99.3
Se 203.985	0.50853	0.47849	0.018	mg/L	94.0
Se 196.026	0.53800	0.52689	0.006	mg/L	97.8

Sequence No.: 25
Sample ID: 1409074-002AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 9/4/2014 9:53:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409074-002AMSD

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1409074-002AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	533884.9	93.388	%	1.0742				1.15%
Ag 328.068†	38706.9	0.48484	mg/L	0.001191	0.48484	mg/L	0.001191	0.25%
As 188.979†	202.1	0.48603	mg/L	0.012323	0.48603	mg/L	0.012323	2.54%
As 193.696†	232.0	0.48841	mg/L	0.008187	0.48841	mg/L	0.008187	1.68%
Ba 233.527†	19049.4	0.49947	mg/L	0.001797	0.49947	mg/L	0.001797	0.36%
Cd 228.802†	4282.8	0.49625	mg/L	0.007402	0.49625	mg/L	0.007402	1.49%
Cd 226.502†	12423.1	0.49168	mg/L	0.002880	0.49168	mg/L	0.002880	0.59%
Cr 267.716†	13777.7	0.64710	mg/L	0.003247	0.64710	mg/L	0.003247	0.50%
Cr 205.560†	11122.7	0.64450	mg/L	0.009984	0.64450	mg/L	0.009984	1.55%
Pb 220.353†	1452.4	0.48065	mg/L	0.008030	0.48065	mg/L	0.008030	1.67%
Pb 217.000†	357.7	0.50045	mg/L	0.009256	0.50045	mg/L	0.009256	1.85%
Se 203.985†	210.7	0.49469	mg/L	0.021074	0.49469	mg/L	0.021074	4.26%
Se 196.026†	245.5	0.52283	mg/L	0.005288	0.52283	mg/L	0.005288	1.01%

Matrix Recovery Check: 1409074-002AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09997	0.48484	0.001	mg/L	484.9
As 188.979	0.49920	0.48603	0.012	mg/L	97.4
As 193.696	0.50596	0.48841	0.008	mg/L	96.5
Ba 233.527	0.50941	0.49947	0.002	mg/L	98.0
Cd 228.802	0.50030	0.49625	0.007	mg/L	99.2
Cd 226.502	0.49942	0.49168	0.003	mg/L	98.5
Cr 267.716	0.66147	0.64710	0.003	mg/L	97.1
Cr 205.560	0.65644	0.64450	0.010	mg/L	97.6
Pb 220.353	0.50054	0.48065	0.008	mg/L	96.0
Pb 217.000	0.49807	0.50045	0.009	mg/L	100.5
Se 203.985	0.50853	0.49469	0.021	mg/L	97.2
Se 196.026	0.53800	0.52283	0.005	mg/L	97.0

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/4/2014 9:54:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	566886.1	99.161	%	0.4359				0.44%
Ag 328.068†	39862.0	0.49931	mg/L	0.001494	0.49931	mg/L	0.001494	0.30%
QC value within limits for Ag 328.068 Recovery = 99.86%								
As 188.979†	206.6	0.49693	mg/L	0.011008	0.49693	mg/L	0.011008	2.22%
QC value within limits for As 188.979 Recovery = 99.39%								
As 193.696†	240.5	0.50613	mg/L	0.014360	0.50613	mg/L	0.014360	2.84%
Ba 233.527†	19422.2	0.50924	mg/L	0.001867	0.50924	mg/L	0.001867	0.37%
QC value within limits for Ba 233.527 Recovery = 101.85%								
Cd 228.802†	4408.6	0.51082	mg/L	0.004342	0.51082	mg/L	0.004342	0.85%
QC value within limits for Cd 228.802 Recovery = 102.16%								
Cd 226.502†	12952.4	0.51263	mg/L	0.001088	0.51263	mg/L	0.001088	0.21%
Cr 267.716†	10764.9	0.50560	mg/L	0.001229	0.50560	mg/L	0.001229	0.24%
Cr 205.560†	8741.1	0.50650	mg/L	0.004141	0.50650	mg/L	0.004141	0.82%
QC value within limits for Cr 205.560 Recovery = 101.30%								
Pb 220.353†	1516.6	0.50189	mg/L	0.005370	0.50189	mg/L	0.005370	1.07%
QC value within limits for Pb 220.353 Recovery = 100.38%								
Pb 217.000†	365.5	0.51134	mg/L	0.008908	0.51134	mg/L	0.008908	1.74%
Se 203.985†	209.1	0.49087	mg/L	0.034641	0.49087	mg/L	0.034641	7.06%
Se 196.026†	238.3	0.50754	mg/L	0.027557	0.50754	mg/L	0.027557	5.43%
QC value within limits for Se 196.026 Recovery = 101.51%								

All analyte(s) passed QC.
User canceled analysis.

9/4/14

Analysis Begun

Start Time: 9/4/2014 9:56:09 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/4/2014 7:18:01 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 2
Date Collected: 9/4/2014 9:56:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	568325.2	99.413	%	0.9502				0.96%
Ag 328.068†	39908.6	0.49989	mg/L	0.001566	0.49989	mg/L	0.001566	0.31%
QC value within limits for Ag 328.068 Recovery = 99.98%								
As 188.979†	207.4	0.49883	mg/L	0.006272	0.49883	mg/L	0.006272	1.26%
QC value within limits for As 188.979 Recovery = 99.77%								
As 193.696†	244.8	0.51524	mg/L	0.009323	0.51524	mg/L	0.009323	1.81%
Ba 233.527†	19465.3	0.51037	mg/L	0.002742	0.51037	mg/L	0.002742	0.54%
QC value within limits for Ba 233.527 Recovery = 102.07%								
Cd 228.802†	4406.1	0.51053	mg/L	0.005133	0.51053	mg/L	0.005133	1.01%
QC value within limits for Cd 228.802 Recovery = 102.11%								
Cd 226.502†	12989.9	0.51411	mg/L	0.000445	0.51411	mg/L	0.000445	0.09%
Cr 267.716†	10819.9	0.50818	mg/L	0.001175	0.50818	mg/L	0.001175	0.23%
Cr 205.560†	8746.4	0.50681	mg/L	0.004620	0.50681	mg/L	0.004620	0.91%

QC value within limits for Cr 205.560 Recovery = 101.36%

Pb 220.353†	1522.0	0.50368 mg/L	0.004011	0.50368 mg/L	0.004011	0.80%

QC value within limits for Pb 220.353 Recovery = 100.74%

Pb 217.000†	362.9	0.50778 mg/L	0.014464	0.50778 mg/L	0.014464	2.85%
Se 203.985†	210.6	0.49439 mg/L	0.006154	0.49439 mg/L	0.006154	1.24%
Se 196.026†	247.1	0.52620 mg/L	0.005559	0.52620 mg/L	0.005559	1.06%

QC value within limits for Se 196.026 Recovery = 105.24%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/4/2014 9:57:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	574186.2	100.44	%	0.478				0.48%
Ag 328.068†	24.5	0.00031	mg/L	0.000068	0.00031	mg/L	0.000068	22.25%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.5	0.00591	mg/L	0.004807	0.00591	mg/L	0.004807	81.30%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	2.3	0.00478	mg/L	0.003257	0.00478	mg/L	0.003257	68.13%
Ba 233.527†	4.6	0.00012	mg/L	0.000530	0.00012	mg/L	0.000530	442.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	3.5	0.00041	mg/L	0.000092	0.00041	mg/L	0.000092	22.75%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	4.8	0.00019	mg/L	0.000089	0.00019	mg/L	0.000089	46.96%
Cr 267.716†	-0.9	-0.00004	mg/L	0.000127	-0.00004	mg/L	0.000127	309.42%
Cr 205.560†	9.5	0.00055	mg/L	0.000651	0.00055	mg/L	0.000651	118.12%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	2.1	0.00070	mg/L	0.002496	0.00070	mg/L	0.002496	358.83%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.6	-0.00078	mg/L	0.008580	-0.00078	mg/L	0.008580	>999.9%
Se 203.985†	-7.5	-0.01771	mg/L	0.013364	-0.01771	mg/L	0.013364	75.45%
Se 196.026†	1.7	0.00359	mg/L	0.008821	0.00359	mg/L	0.008821	245.64%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/4/2014 9:58:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

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Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	574396.4	100.47	%	1.283				1.28%
Ag 328.068†	16.1	0.00020	mg/L	0.000300	0.00020	mg/L	0.000300	148.91%
As 188.979†	0.6	0.00154	mg/L	0.005987	0.00154	mg/L	0.005987	389.33%
As 193.696†	1.3	0.00275	mg/L	0.005950	0.00275	mg/L	0.005950	216.49%
Ba 233.527†	18.0	0.00047	mg/L	0.000164	0.00047	mg/L	0.000164	34.65%

Pb 220.353†	-2.2	-0.00074 mg/L	0.001711	-0.00074 mg/L	0.001711	232.21%
Pb 217.000†	0.7	0.00103 mg/L	0.000530	0.00103 mg/L	0.000530	51.26%
Se 203.985†	-13.0	-0.03050 mg/L	0.006240	-0.03050 mg/L	0.006240	20.46%
Se 196.026†	-18.8	-0.03997 mg/L	0.012482	-0.03997 mg/L	0.012482	31.22%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/4/2014 10:12:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	544988.3	95.331	%	0.3202				0.34%
Ag 328.068†	39647.9	0.49663	mg/L	0.002380	0.49663	mg/L	0.002380	0.48%
QC value within limits for Ag 328.068 Recovery = 99.33%								
As 188.979†	209.6	0.50416	mg/L	0.013259	0.50416	mg/L	0.013259	2.63%
QC value within limits for As 188.979 Recovery = 100.83%								
As 193.696†	246.2	0.51823	mg/L	0.009237	0.51823	mg/L	0.009237	1.78%
Ba 233.527†	19315.8	0.50645	mg/L	0.001325	0.50645	mg/L	0.001325	0.26%
QC value within limits for Ba 233.527 Recovery = 101.29%								
Cd 228.802†	4400.9	0.50993	mg/L	0.001842	0.50993	mg/L	0.001842	0.36%
QC value within limits for Cd 228.802 Recovery = 101.99%								
Cd 226.502†	12817.8	0.50730	mg/L	0.002035	0.50730	mg/L	0.002035	0.40%
Cr 267.716†	10695.1	0.50232	mg/L	0.002094	0.50232	mg/L	0.002094	0.42%
Cr 205.560†	8703.9	0.50435	mg/L	0.000277	0.50435	mg/L	0.000277	0.06%
QC value within limits for Cr 205.560 Recovery = 100.87%								
Pb 220.353†	1513.3	0.50080	mg/L	0.003474	0.50080	mg/L	0.003474	0.69%
QC value within limits for Pb 220.353 Recovery = 100.16%								
Pb 217.000†	357.9	0.50071	mg/L	0.009327	0.50071	mg/L	0.009327	1.86%
Se 203.985†	206.6	0.48504	mg/L	0.005736	0.48504	mg/L	0.005736	1.18%
Se 196.026†	236.5	0.50376	mg/L	0.016647	0.50376	mg/L	0.016647	3.30%
QC value within limits for Se 196.026 Recovery = 100.75%								

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/4/2014 10:13:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	573796.0	100.37	%	0.121				0.12%
Ag 328.068†	10.3	0.00013	mg/L	0.000079	0.00013	mg/L	0.000079	60.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.1	0.00024	mg/L	0.006959	0.00024	mg/L	0.006959	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.8	-0.00177	mg/L	0.004998	-0.00177	mg/L	0.004998	282.59%
Ba 233.527†	35.5	0.00093	mg/L	0.000222	0.00093	mg/L	0.000222	23.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.2	0.00026	mg/L	0.000540	0.00026	mg/L	0.000540	207.47%

QC value within limits for Cd 228.802 Recovery = Not calculated

Cd 226.502†	4.6	0.00018 mg/L	0.000219	0.00018 mg/L	0.000219	119.66%
Cr 267.716†	3.4	0.00016 mg/L	0.000227	0.00016 mg/L	0.000227	140.98%
Cr 205.560†	0.6	0.00004 mg/L	0.000920	0.00004 mg/L	0.000920	>999.9%

QC value within limits for Cr 205.560 Recovery = Not calculated

Pb 220.353†	6.4	0.00213 mg/L	0.000591	0.00213 mg/L	0.000591	27.72%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	-7.4	-0.01034 mg/L	0.009080	-0.01034 mg/L	0.009080	87.80%
Se 203.985†	-3.4	-0.00798 mg/L	0.013009	-0.00798 mg/L	0.013009	163.00%
Se 196.026†	3.3	0.00711 mg/L	0.015046	0.00711 mg/L	0.015046	211.68%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/4/2014 10:14:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

9/4/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	575797.6	100.72	%	0.909				0.90%
Ag 328.068†	24.8	0.00031	mg/L	0.000180	0.00031	mg/L	0.000180	58.01%
As 188.979†	-1.0	-0.00246	mg/L	0.005596	-0.00246	mg/L	0.005596	227.24%
As 193.696†	-1.4	-0.00285	mg/L	0.007821	-0.00285	mg/L	0.007821	274.75%
Ba 233.527†	20.9	0.00055	mg/L	0.000587	0.00055	mg/L	0.000587	107.04%
Cd 228.802†	3.1	0.00036	mg/L	0.000492	0.00036	mg/L	0.000492	137.62%
Cd 226.502†	0.8	0.00003	mg/L	0.000227	0.00003	mg/L	0.000227	675.73%
Cr 267.716†	0.6	0.00003	mg/L	0.000515	0.00003	mg/L	0.000515	>999.9%
Cr 205.560†	-6.2	-0.00036	mg/L	0.001460	-0.00036	mg/L	0.001460	406.93%
Pb 220.353†	1.0	0.00034	mg/L	0.000114	0.00034	mg/L	0.000114	33.79%
Pb 217.000†	2.5	0.00354	mg/L	0.005962	0.00354	mg/L	0.005962	168.61%
Se 203.985†	-1.4	-0.00328	mg/L	0.007961	-0.00328	mg/L	0.007961	242.37%
Se 196.026†	-1.4	-0.00291	mg/L	0.025073	-0.00291	mg/L	0.025073	862.36%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1408D46-001B
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 321
Date Collected: 9/4/2014 10:16:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408D46-001B

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1408D46-001B

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	529752.1	92.665	%	0.7227				0.78%
Ag 328.068†	6.6	0.00008	mg/L	0.000493	0.00008	mg/L	0.000493	592.89%
As 188.979†	-1.4	-0.00336	mg/L	0.008107	-0.00336	mg/L	0.008107	241.47%
As 193.696†	-3.3	-0.00700	mg/L	0.009461	-0.00700	mg/L	0.009461	135.12%
Ba 233.527†	38696.1	1.0146	mg/L	0.00385	1.0146	mg/L	0.00385	0.38%
Cd 228.802†	335.4	0.03887	mg/L	0.000704	0.03887	mg/L	0.000704	1.81%
Cd 226.502†	700.5	0.02772	mg/L	0.000257	0.02772	mg/L	0.000257	0.93%
Cr 267.716†	211.4	0.00993	mg/L	0.000388	0.00993	mg/L	0.000388	3.91%

As 193.696	0.49300	0.49988	0.014	mg/L	101.4
Ba 233.527	1.5146	1.5549	0.003	mg/L	108.1
Cd 228.802	0.53887	0.53922	0.016	mg/L	100.1
Cd 226.502	0.52772	0.50084	0.002	mg/L	94.6
Cr 267.716	0.50993	0.47963	0.002	mg/L	93.9
Cr 205.560	0.48794	0.45916	0.015	mg/L	94.2
Pb 220.353	0.58832	0.54717	0.016	mg/L	91.8
Pb 217.000	0.58359	0.56991	0.016	mg/L	97.3
Se 203.985	0.38094	0.43986	0.009	mg/L	111.8
Se 196.026	0.48071	0.51053	0.020	mg/L	106.0

Sequence No.: 46 **Autosampler Location: 325**
Sample ID: 1409046-001A **Date Collected: 9/4/2014 10:21:10 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1409046-001A

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1409046-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	603477.3	105.56	%	0.870				0.82%
Ag 328.068†	-172.0	-0.00215	mg/L	0.000175	-0.00215	mg/L	0.000175	8.12%
As 188.979†	27.9	0.06723	mg/L	0.001423	0.06723	mg/L	0.001423	2.12%
As 193.696†	-95.7	-0.20138	mg/L	0.000555	-0.20138	mg/L	0.000555	0.28%
Ba 233.527†	162446.1	4.2593	mg/L	0.00673	4.2593	mg/L	0.00673	0.16%
Cd 228.802†	-12.4	-0.00143	mg/L	0.000217	-0.00143	mg/L	0.000217	15.10%
Cd 226.502†	-166.6	-0.00659	mg/L	0.000339	-0.00659	mg/L	0.000339	5.14%
Cr 267.716†	2639.9	0.12399	mg/L	0.000798	0.12399	mg/L	0.000798	0.64%
Cr 205.560†	1871.9	0.10847	mg/L	0.001019	0.10847	mg/L	0.001019	0.94%
Pb 220.353†	133.0	0.04402	mg/L	0.001723	0.04402	mg/L	0.001723	3.91%
Pb 217.000†	96.0	0.13429	mg/L	0.007817	0.13429	mg/L	0.007817	5.82%
Se 203.985†	-14.5	-0.03393	mg/L	0.015075	-0.03393	mg/L	0.015075	44.43%
Se 196.026†	-21.5	-0.04586	mg/L	0.001962	-0.04586	mg/L	0.001962	4.28%

Sequence No.: 47 **Autosampler Location: 326**
Sample ID: 1409046-002A **Date Collected: 9/4/2014 10:22:25 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1409046-002A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	604172.5	105.68	%	0.676				0.64%
Ag 328.068†	-205.6	-0.00258	mg/L	0.000173	-0.00258	mg/L	0.000173	6.71%
As 188.979†	28.1	0.06748	mg/L	0.005642	0.06748	mg/L	0.005642	8.36%
As 193.696†	-101.3	-0.21320	mg/L	0.011071	-0.21320	mg/L	0.011071	5.19%
Ba 233.527†	155363.2	4.0736	mg/L	0.00739	4.0736	mg/L	0.00739	0.18%
Cd 228.802†	-12.2	-0.00142	mg/L	0.000364	-0.00142	mg/L	0.000364	25.68%
Cd 226.502†	-165.2	-0.00654	mg/L	0.000167	-0.00654	mg/L	0.000167	2.55%
Cr 267.716†	2632.1	0.12362	mg/L	0.001497	0.12362	mg/L	0.001497	1.21%
Cr 205.560†	1841.9	0.10673	mg/L	0.000915	0.10673	mg/L	0.000915	0.86%
Pb 220.353†	131.5	0.04352	mg/L	0.003420	0.04352	mg/L	0.003420	7.86%
Pb 217.000†	95.7	0.13387	mg/L	0.001385	0.13387	mg/L	0.001385	1.03%

Se 203.985†	-4.9	-0.01155 mg/L	0.020901	-0.01155 mg/L	0.020901	180.88%
Se 196.026†	-29.7	-0.06328 mg/L	0.013673	-0.06328 mg/L	0.013673	21.61%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 48
Sample ID: 1409046-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 327
Date Collected: 9/4/2014 10:23:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-003A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-003A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	657959.1	115.09	%	0.595				0.52%
Ag 328.068†	-287.1	-0.00360	mg/L	0.000303	-0.00360	mg/L	0.000303	8.42%
As 188.979†	36.4	0.08753	mg/L	0.003420	0.08753	mg/L	0.003420	3.91%
As 193.696†	-163.8	-0.34472	mg/L	0.005789	-0.34472	mg/L	0.005789	1.68%
Ba 233.527†	127986.2	3.3558	mg/L	0.00686	3.3558	mg/L	0.00686	0.20%
Cd 228.802†	-10.0	-0.00116	mg/L	0.000282	-0.00116	mg/L	0.000282	24.34%
Cd 226.502†	-267.0	-0.01057	mg/L	0.000092	-0.01057	mg/L	0.000092	0.87%
Cr 267.716†	4298.4	0.20189	mg/L	0.001259	0.20189	mg/L	0.001259	0.62%
Cr 205.560†	2970.7	0.17214	mg/L	0.000378	0.17214	mg/L	0.000378	0.22%
Pb 220.353†	219.2	0.07254	mg/L	0.002785	0.07254	mg/L	0.002785	3.84%
Pb 217.000†	141.7	0.19825	mg/L	0.005855	0.19825	mg/L	0.005855	2.95%
Se 203.985†	6.4	0.01502	mg/L	0.023370	0.01502	mg/L	0.023370	155.55%
Se 196.026†	-39.5	-0.08422	mg/L	0.006649	-0.08422	mg/L	0.006649	7.90%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 49
Sample ID: 1409046-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 328
Date Collected: 9/4/2014 10:24:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-004A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-004A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	653744.5	114.35	%	0.608				0.53%
Ag 328.068†	-281.4	-0.00352	mg/L	0.000090	-0.00352	mg/L	0.000090	2.56%
As 188.979†	25.2	0.06054	mg/L	0.006074	0.06054	mg/L	0.006074	10.03%
As 193.696†	-139.8	-0.29427	mg/L	0.005699	-0.29427	mg/L	0.005699	1.94%
Ba 233.527†	69366.7	1.8188	mg/L	0.00354	1.8188	mg/L	0.00354	0.19%
Cd 228.802†	-9.9	-0.00115	mg/L	0.000522	-0.00115	mg/L	0.000522	45.31%
Cd 226.502†	-217.5	-0.00861	mg/L	0.000224	-0.00861	mg/L	0.000224	2.60%
Cr 267.716†	3705.6	0.17404	mg/L	0.000674	0.17404	mg/L	0.000674	0.39%
Cr 205.560†	2541.2	0.14725	mg/L	0.001041	0.14725	mg/L	0.001041	0.71%
Pb 220.353†	206.5	0.06833	mg/L	0.004560	0.06833	mg/L	0.004560	6.67%
Pb 217.000†	121.9	0.17051	mg/L	0.011286	0.17051	mg/L	0.011286	6.62%
Se 203.985†	5.4	0.01271	mg/L	0.012505	0.01271	mg/L	0.012505	98.38%
Se 196.026†	-24.0	-0.05101	mg/L	0.007677	-0.05101	mg/L	0.007677	15.05%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 50 **Autosampler Location: 329**

Sample ID: 1409046-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 9/4/2014 10:26:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-005A

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1409046-005A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	645907.8	112.98	%	0.880				0.78%
Ag 328.068†	-335.9	-0.00421	mg/L	0.000229	-0.00421	mg/L	0.000229	5.45%
As 188.979†	17.5	0.04199	mg/L	0.001748	0.04199	mg/L	0.001748	4.16%
As 193.696†	-89.7	-0.18885	mg/L	0.021380	-0.18885	mg/L	0.021380	11.32%
Ba 233.527†	67366.3	1.7663	mg/L	0.00444	1.7663	mg/L	0.00444	0.25%
Cd 228.802†	-13.2	-0.00152	mg/L	0.000198	-0.00152	mg/L	0.000198	12.96%
Cd 226.502†	-204.9	-0.00811	mg/L	0.000284	-0.00811	mg/L	0.000284	3.50%
Cr 267.716†	2296.0	0.10784	mg/L	0.001501	0.10784	mg/L	0.001501	1.39%
Cr 205.560†	1460.8	0.08465	mg/L	0.002322	0.08465	mg/L	0.002322	2.74%
Pb 220.353†	332.3	0.10998	mg/L	0.004098	0.10998	mg/L	0.004098	3.73%
Pb 217.000†	124.5	0.17412	mg/L	0.003582	0.17412	mg/L	0.003582	2.06%
Se 203.985†	4.4	0.01025	mg/L	0.021870	0.01025	mg/L	0.021870	213.39%
Se 196.026†	-24.1	-0.05135	mg/L	0.027379	-0.05135	mg/L	0.027379	53.32%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 51
Sample ID: 1409046-006A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 330
Date Collected: 9/4/2014 10:27:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-006A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-006A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	679660.5	118.89	%	1.567				1.32%
Ag 328.068†	-302.2	-0.00379	mg/L	0.000231	-0.00379	mg/L	0.000231	6.09%
As 188.979†	30.2	0.07254	mg/L	0.003918	0.07254	mg/L	0.003918	5.40%
As 193.696†	-150.5	-0.31672	mg/L	0.014454	-0.31672	mg/L	0.014454	4.56%
Ba 233.527†	104678.9	2.7446	mg/L	0.00472	2.7446	mg/L	0.00472	0.17%
Cd 228.802†	-6.0	-0.00070	mg/L	0.000046	-0.00070	mg/L	0.000046	6.55%
Cd 226.502†	-250.3	-0.00991	mg/L	0.000225	-0.00991	mg/L	0.000225	2.28%
Cr 267.716†	4215.9	0.19801	mg/L	0.000155	0.19801	mg/L	0.000155	0.08%
Cr 205.560†	2909.2	0.16857	mg/L	0.002206	0.16857	mg/L	0.002206	1.31%
Pb 220.353†	1039.1	0.34386	mg/L	0.007140	0.34386	mg/L	0.007140	2.08%
Pb 217.000†	342.7	0.47951	mg/L	0.013421	0.47951	mg/L	0.013421	2.80%
Se 203.985†	0.7	0.00169	mg/L	0.037003	0.00169	mg/L	0.037003	>999.9%
Se 196.026†	-18.3	-0.03887	mg/L	0.022732	-0.03887	mg/L	0.022732	58.49%

Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/4/2014 10:28:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	569217.7	99.569	%	1.1859				1.19%
Ag 328.068†	39910.9	0.49992	mg/L	0.001560	0.49992	mg/L	0.001560	0.31%
QC value within limits for Ag 328.068 Recovery = 99.98%								
As 188.979†	211.7	0.50926	mg/L	0.016830	0.50926	mg/L	0.016830	3.30%
QC value within limits for As 188.979 Recovery = 101.85%								
As 193.696†	245.5	0.51672	mg/L	0.006979	0.51672	mg/L	0.006979	1.35%
Ba 233.527†	19584.7	0.51350	mg/L	0.000157	0.51350	mg/L	0.000157	0.03%
QC value within limits for Ba 233.527 Recovery = 102.70%								
Cd 228.802†	4428.9	0.51317	mg/L	0.009310	0.51317	mg/L	0.009310	1.81%
QC value within limits for Cd 228.802 Recovery = 102.63%								
Cd 226.502†	13096.3	0.51832	mg/L	0.000418	0.51832	mg/L	0.000418	0.08%
Cr 267.716†	10884.9	0.51123	mg/L	0.000600	0.51123	mg/L	0.000600	0.12%
Cr 205.560†	8805.0	0.51020	mg/L	0.008951	0.51020	mg/L	0.008951	1.75%
QC value within limits for Cr 205.560 Recovery = 102.04%								
Pb 220.353†	1534.7	0.50788	mg/L	0.009641	0.50788	mg/L	0.009641	1.90%
QC value within limits for Pb 220.353 Recovery = 101.58%								
Pb 217.000†	364.1	0.50940	mg/L	0.019476	0.50940	mg/L	0.019476	3.82%
Se 203.985†	209.6	0.49206	mg/L	0.016141	0.49206	mg/L	0.016141	3.28%
Se 196.026†	246.3	0.52444	mg/L	0.009577	0.52444	mg/L	0.009577	1.83%
QC value within limits for Se 196.026 Recovery = 104.89%								

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/4/2014 10:29:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	581070.4	101.64	%	0.138				0.14%
Ag 328.068†	12.6	0.00016	mg/L	0.000318	0.00016	mg/L	0.000318	201.95%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.3	0.00061	mg/L	0.004667	0.00061	mg/L	0.004667	763.16%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.8	-0.00168	mg/L	0.010848	-0.00168	mg/L	0.010848	646.58%
Ba 233.527†	22.6	0.00059	mg/L	0.000305	0.00059	mg/L	0.000305	51.29%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	3.6	0.00042	mg/L	0.000482	0.00042	mg/L	0.000482	115.25%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.8	0.00027	mg/L	0.000105	0.00027	mg/L	0.000105	38.76%
Cr 267.716†	4.7	0.00022	mg/L	0.000315	0.00022	mg/L	0.000315	144.08%
Cr 205.560†	-6.8	-0.00040	mg/L	0.001036	-0.00040	mg/L	0.001036	262.05%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	0.5	0.00016	mg/L	0.002857	0.00016	mg/L	0.002857	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	2.2	0.00311	mg/L	0.009584	0.00311	mg/L	0.009584	308.41%
Se 203.985†	-3.7	-0.00865	mg/L	0.009665	-0.00865	mg/L	0.009665	111.67%
Se 196.026†	0.6	0.00120	mg/L	0.010970	0.00120	mg/L	0.010970	912.01%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/4/2014 10:30:56 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/4/2014 7:18:01 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 55
Sample ID: 1409046-007A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 331
Date Collected: 9/4/2014 10:30:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1409046-007A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-007A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	684030.7	119.65	%	0.400				0.33%
Ag 328.068†	-269.1	-0.00337	mg/L	0.000535	-0.00337	mg/L	0.000535	15.88%
As 188.979†	26.2	0.06309	mg/L	0.003546	0.06309	mg/L	0.003546	5.62%
As 193.696†	-207.0	-0.43572	mg/L	0.009537	-0.43572	mg/L	0.009537	2.19%
Ba 233.527†	36849.3	0.96618	mg/L	0.001611	0.96618	mg/L	0.001611	0.17%
Cd 228.802†	-7.1	-0.00082	mg/L	0.000288	-0.00082	mg/L	0.000288	35.19%
Cd 226.502†	-256.3	-0.01014	mg/L	0.000344	-0.01014	mg/L	0.000344	3.39%
Cr 267.716†	4842.1	0.22742	mg/L	0.001058	0.22742	mg/L	0.001058	0.47%
Cr 205.560†	3394.2	0.19668	mg/L	0.001893	0.19668	mg/L	0.001893	0.96%
Pb 220.353†	455.6	0.15078	mg/L	0.001921	0.15078	mg/L	0.001921	1.27%
Pb 217.000†	230.5	0.32252	mg/L	0.007898	0.32252	mg/L	0.007898	2.45%
Se 203.985†	9.8	0.02290	mg/L	0.012044	0.02290	mg/L	0.012044	52.59%
Se 196.026†	-25.1	-0.05340	mg/L	0.015020	-0.05340	mg/L	0.015020	28.13%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 56
Sample ID: 1409046-007AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 332
Date Collected: 9/4/2014 10:32:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007AMS

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-007AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	693878.6	121.37	%	0.579				0.48%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.4%								
Ag 328.068†	31652.9	0.39648	mg/L	0.001052	0.39648	mg/L	0.001052	0.27%
As 188.979†	188.2	0.45279	mg/L	0.010049	0.45279	mg/L	0.010049	2.22%
As 193.696†	-50.2	-0.10556	mg/L	0.016122	-0.10556	mg/L	0.016122	15.27%
Ba 233.527†	53835.5	1.4115	mg/L	0.00129	1.4115	mg/L	0.00129	0.09%
Cd 228.802†	3293.3	0.38159	mg/L	0.004343	0.38159	mg/L	0.004343	1.14%
Cd 226.502†	8634.7	0.34174	mg/L	0.001181	0.34174	mg/L	0.001181	0.35%
Cr 267.716†	13066.8	0.61371	mg/L	0.001518	0.61371	mg/L	0.001518	0.25%

Cr 205.560†	9974.9	0.57799	mg/L	0.006223	0.57799	mg/L	0.006223	1.08%
Pb 220.353†	1337.5	0.44263	mg/L	0.005525	0.44263	mg/L	0.005525	1.25%
Pb 217.000†	494.6	0.69200	mg/L	0.012958	0.69200	mg/L	0.012958	1.87%
Se 203.985†	172.8	0.40561	mg/L	0.015846	0.40561	mg/L	0.015846	3.91%
Se 196.026†	136.3	0.29028	mg/L	0.005907	0.29028	mg/L	0.005907	2.04%

Matrix Recovery Check: 1409046-007AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09663	0.39648	0.001	mg/L	399.9
As 188.979	0.56309	0.45279	0.010	mg/L	77.9
As 193.696	0.06428	-0.10556	0.016	mg/L	66.0
Ba 233.527	1.4662	1.4115	0.001	mg/L	89.1
Cd 228.802	0.49918	0.38159	0.004	mg/L	76.5
Cd 226.502	0.48986	0.34174	0.001	mg/L	70.4
Cr 267.716	0.72742	0.61371	0.002	mg/L	77.3
Cr 205.560	0.69668	0.57799	0.006	mg/L	76.3
Pb 220.353	0.65078	0.44263	0.006	mg/L	58.4
Pb 217.000	0.82252	0.69200	0.013	mg/L	73.9
Se 203.985	0.52290	0.40561	0.016	mg/L	76.5
Se 196.026	0.44660	0.29028	0.006	mg/L	68.7

Internal Standard Check failed. Continue with analysis.

Sequence No.: 57
Sample ID: 1409046-007AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 333
Date Collected: 9/4/2014 10:33:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007AMSD

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-007AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	667593.3	116.78	%	0.977				0.84%
Ag 328.068†	31986.1	0.40066	mg/L	0.000715	0.40066	mg/L	0.000715	0.18%
As 188.979†	185.5	0.44611	mg/L	0.014450	0.44611	mg/L	0.014450	3.24%
As 193.696†	-47.7	-0.10034	mg/L	0.039162	-0.10034	mg/L	0.039162	39.03%
Ba 233.527†	59274.8	1.5542	mg/L	0.00232	1.5542	mg/L	0.00232	0.15%
Cd 228.802†	3313.5	0.38393	mg/L	0.004546	0.38393	mg/L	0.004546	1.18%
Cd 226.502†	8734.9	0.34571	mg/L	0.000866	0.34571	mg/L	0.000866	0.25%
Cr 267.716†	13083.9	0.61451	mg/L	0.001642	0.61451	mg/L	0.001642	0.27%
Cr 205.560†	9960.2	0.57714	mg/L	0.005965	0.57714	mg/L	0.005965	1.03%
Pb 220.353†	1325.5	0.43866	mg/L	0.001491	0.43866	mg/L	0.001491	0.34%
Pb 217.000†	489.7	0.68520	mg/L	0.021811	0.68520	mg/L	0.021811	3.18%
Se 203.985†	175.2	0.41122	mg/L	0.042750	0.41122	mg/L	0.042750	10.40%
Se 196.026†	135.7	0.28890	mg/L	0.015330	0.28890	mg/L	0.015330	5.31%

Matrix Recovery Check: 1409046-007AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09663	0.40066	0.001	mg/L	404.0
As 188.979	0.56309	0.44611	0.014	mg/L	76.6
As 193.696	0.06428	-0.10034	0.039	mg/L	67.1
Ba 233.527	1.4662	1.5542	0.002	mg/L	117.6
Cd 228.802	0.49918	0.38393	0.005	mg/L	76.9
Cd 226.502	0.48986	0.34571	0.001	mg/L	71.2
Cr 267.716	0.72742	0.61451	0.002	mg/L	77.4
Cr 205.560	0.69668	0.57714	0.006	mg/L	76.1
Pb 220.353	0.65078	0.43866	0.001	mg/L	57.6
Pb 217.000	0.82252	0.68520	0.022	mg/L	72.5
Se 203.985	0.52290	0.41122	0.043	mg/L	77.7

Se 196.026	0.44660	0.28890	0.015	mg/L	68.5

Sequence No.: 58
Sample ID: 1408F23-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 334
Date Collected: 9/4/2014 10:34:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408F23-002A

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1408F23-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	614697.3	107.52	%	0.784				0.73%
Ag 328.068†	-133.5	-0.00167	mg/L	0.000305	-0.00167	mg/L	0.000305	18.27%
As 188.979†	13.1	0.03151	mg/L	0.009382	0.03151	mg/L	0.009382	29.78%
As 193.696†	-190.4	-0.40075	mg/L	0.006077	-0.40075	mg/L	0.006077	1.52%
Ba 233.527†	190796.7	5.0026	mg/L	0.00548	5.0026	mg/L	0.00548	0.11%
Cd 228.802†	-4.5	-0.00052	mg/L	0.000336	-0.00052	mg/L	0.000336	64.34%
Cd 226.502†	-184.9	-0.00732	mg/L	0.000169	-0.00732	mg/L	0.000169	2.30%
Cr 267.716†	3367.9	0.15818	mg/L	0.001911	0.15818	mg/L	0.001911	1.21%
Cr 205.560†	2335.5	0.13533	mg/L	0.000701	0.13533	mg/L	0.000701	0.52%
Pb 220.353†	259.9	0.08601	mg/L	0.002411	0.08601	mg/L	0.002411	2.80%
Pb 217.000†	165.9	0.23213	mg/L	0.018280	0.23213	mg/L	0.018280	7.87%
Se 203.985†	-12.6	-0.02950	mg/L	0.004880	-0.02950	mg/L	0.004880	16.54%
Se 196.026†	-20.3	-0.04313	mg/L	0.036244	-0.04313	mg/L	0.036244	84.04%

User canceled analysis.

Analysis Begun

Start Time: 9/4/2014 10:35:45 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 9/4/2014 7:18:01 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 60
Sample ID: 1408F23-002AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 335
Date Collected: 9/4/2014 10:35:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1408F23-002AMS

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1408F23-002AMS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	604932.8	105.82	%	1.058				1.00%
Ag 328.068†	36261.4	0.45421	mg/L	0.000337	0.45421	mg/L	0.000337	0.07%
As 188.979†	201.0	0.48341	mg/L	0.024888	0.48341	mg/L	0.024888	5.15%
As 193.696†	-37.8	-0.07954	mg/L	0.011213	-0.07954	mg/L	0.011213	14.10%
Ba 233.527†	197491.9	5.1782	mg/L	0.01017	5.1782	mg/L	0.01017	0.20%
Cd 228.802†	3797.2	0.43998	mg/L	0.004011	0.43998	mg/L	0.004011	0.91%
Cd 226.502†	10307.9	0.40796	mg/L	0.000933	0.40796	mg/L	0.000933	0.23%

Se 196.026	0.45687	0.32590	0.025	mg/L	73.8

Sequence No.: 62
Sample ID: 1408F23-002APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 337
Date Collected: 9/4/2014 10:38:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408F23-002APS

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1408F23-002APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	616719.2	107.88	%	0.629				0.58%
Ag 328.068†	33505.2	0.41969	mg/L	0.001192	0.41969	mg/L	0.001192	0.28%
As 188.979†	189.0	0.45457	mg/L	0.016627	0.45457	mg/L	0.016627	3.66%
As 193.696†	21.1	0.04440	mg/L	0.011359	0.04440	mg/L	0.011359	25.59%
Ba 233.527†	204866.5	5.3715	mg/L	0.00182	5.3715	mg/L	0.00182	0.03%
Cd 228.802†	3551.3	0.41149	mg/L	0.002056	0.41149	mg/L	0.002056	0.50%
Cd 226.502†	9764.2	0.38644	mg/L	0.001356	0.38644	mg/L	0.001356	0.35%
Cr 267.716†	11941.2	0.56084	mg/L	0.002067	0.56084	mg/L	0.002067	0.37%
Cr 205.560†	9211.5	0.53376	mg/L	0.003791	0.53376	mg/L	0.003791	0.71%
Pb 220.353†	1409.2	0.46636	mg/L	0.003478	0.46636	mg/L	0.003478	0.75%
Pb 217.000†	449.4	0.62877	mg/L	0.005789	0.62877	mg/L	0.005789	0.92%
Se 203.985†	164.9	0.38724	mg/L	0.013492	0.38724	mg/L	0.013492	3.48%
Se 196.026†	176.5	0.37586	mg/L	0.019042	0.37586	mg/L	0.019042	5.07%

Matrix Recovery Check: 1408F23-002APS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09833	0.41969	0.001	mg/L	421.4
As 188.979	0.53151	0.45457	0.017	mg/L	84.6
As 193.696	0.09925	0.04440	0.011	mg/L	89.0
Ba 233.527	5.5026	5.3715	0.002	mg/L	73.8
Cd 228.802	0.49948	0.41149	0.002	mg/L	82.4
Cd 226.502	0.49268	0.38644	0.001	mg/L	78.8
Cr 267.716	0.65818	0.56084	0.002	mg/L	80.5
Cr 205.560	0.63533	0.53376	0.004	mg/L	79.7
Pb 220.353	0.58601	0.46636	0.003	mg/L	76.1
Pb 217.000	0.73213	0.62877	0.006	mg/L	79.3
Se 203.985	0.47050	0.38724	0.013	mg/L	83.3
Se 196.026	0.45687	0.37586	0.019	mg/L	83.8

Sequence No.: 63
Sample ID: 1409046-007A 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 338
Date Collected: 9/4/2014 10:39:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007A 2x

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-007A 2x

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	641486.5	112.21	%	0.439				0.39%
Ag 328.068†	-164.3	-0.00206	mg/L	0.000463	-0.00206	mg/L	0.000463	22.50%
As 188.979†	13.6	0.03277	mg/L	0.004467	0.03277	mg/L	0.004467	13.63%

As 193.696†	-110.5	-0.23251	mg/L	0.003372	-0.23251	mg/L	0.003372	1.45%
Ba 233.527†	21310.9	0.55876	mg/L	0.002293	0.55876	mg/L	0.002293	0.41%
Cd 228.802†	-9.8	-0.00114	mg/L	0.000517	-0.00114	mg/L	0.000517	45.32%
Cd 226.502†	-163.3	-0.00646	mg/L	0.000075	-0.00646	mg/L	0.000075	1.16%
Cr 267.716†	2788.6	0.13097	mg/L	0.000540	0.13097	mg/L	0.000540	0.41%
Cr 205.560†	1927.1	0.11166	mg/L	0.002060	0.11166	mg/L	0.002060	1.84%
Pb 220.353†	280.2	0.09274	mg/L	0.002627	0.09274	mg/L	0.002627	2.83%
Pb 217.000†	124.0	0.17343	mg/L	0.006461	0.17343	mg/L	0.006461	3.73%
Se 203.985†	-20.9	-0.04913	mg/L	0.015386	-0.04913	mg/L	0.015386	31.32%
Se 196.026†	-21.1	-0.04503	mg/L	0.014555	-0.04503	mg/L	0.014555	32.32%

Sequence No.: 64
Sample ID: 1409046-007AMS 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 339
Date Collected: 9/4/2014 10:40:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007AMS 2x

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: 1409046-007AMS 2x

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	614738.4	107.53	%	0.335				0.31%
Ag 328.068†	17445.3	0.21852	mg/L	0.000402	0.21852	mg/L	0.000402	0.18%
As 188.979†	104.3	0.25091	mg/L	0.017994	0.25091	mg/L	0.017994	7.17%
As 193.696†	-32.2	-0.06782	mg/L	0.003212	-0.06782	mg/L	0.003212	4.74%
Ba 233.527†	31368.2	0.82246	mg/L	0.001739	0.82246	mg/L	0.001739	0.21%
Cd 228.802†	1883.3	0.21822	mg/L	0.001825	0.21822	mg/L	0.001825	0.84%
Cd 226.502†	5049.7	0.19986	mg/L	0.001048	0.19986	mg/L	0.001048	0.52%
Cr 267.716†	7561.4	0.35514	mg/L	0.001321	0.35514	mg/L	0.001321	0.37%
Cr 205.560†	5779.1	0.33487	mg/L	0.002314	0.33487	mg/L	0.002314	0.69%
Pb 220.353†	812.0	0.26873	mg/L	0.001923	0.26873	mg/L	0.001923	0.72%
Pb 217.000†	276.3	0.38660	mg/L	0.004557	0.38660	mg/L	0.004557	1.18%
Se 203.985†	77.0	0.18089	mg/L	0.018815	0.18089	mg/L	0.018815	10.40%
Se 196.026†	70.8	0.15068	mg/L	0.011837	0.15068	mg/L	0.011837	7.86%

Sequence No.: 65
Sample ID: 1409046-007AMSD 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 340
Date Collected: 9/4/2014 10:41:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007AMSD 2x

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1409046-007AMSD 2x

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	628505.4	109.94	%	1.072				0.97%
Ag 328.068†	17424.4	0.21826	mg/L	0.000836	0.21826	mg/L	0.000836	0.38%
As 188.979†	107.8	0.25924	mg/L	0.012033	0.25924	mg/L	0.012033	4.64%
As 193.696†	-33.1	-0.06969	mg/L	0.018031	-0.06969	mg/L	0.018031	25.87%
Ba 233.527†	34154.0	0.89551	mg/L	0.001307	0.89551	mg/L	0.001307	0.15%
Cd 228.802†	1873.7	0.21711	mg/L	0.002026	0.21711	mg/L	0.002026	0.93%
Cd 226.502†	5073.7	0.20080	mg/L	0.003179	0.20080	mg/L	0.003179	1.58%
Cr 267.716†	7494.3	0.35199	mg/L	0.001297	0.35199	mg/L	0.001297	0.37%
Cr 205.560†	5734.1	0.33226	mg/L	0.004938	0.33226	mg/L	0.004938	1.49%
Pb 220.353†	792.4	0.26222	mg/L	0.004421	0.26222	mg/L	0.004421	1.69%
Pb 217.000†	273.1	0.38215	mg/L	0.012850	0.38215	mg/L	0.012850	3.36%

Se 203.985†	75.7	0.17764 mg/L	0.022771	0.17764 mg/L	0.022771	12.82%
Se 196.026†	83.7	0.17830 mg/L	0.011366	0.17830 mg/L	0.011366	6.37%

Sequence No.: 66 **Autosampler Location: 2**
Sample ID: CCV **Date Collected: 9/4/2014 10:43:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	576935.9	100.92	%	0.517				0.51%
Ag 328.068†	39922.8	0.50007	mg/L	0.001319	0.50007	mg/L	0.001319	0.26%
QC value within limits for Ag 328.068 Recovery = 100.01%								
As 188.979†	213.5	0.51355	mg/L	0.012921	0.51355	mg/L	0.012921	2.52%
QC value within limits for As 188.979 Recovery = 102.71%								
As 193.696†	245.2	0.51609	mg/L	0.002689	0.51609	mg/L	0.002689	0.52%
Ba 233.527†	19830.4	0.51995	mg/L	0.000411	0.51995	mg/L	0.000411	0.08%
QC value within limits for Ba 233.527 Recovery = 103.99%								
Cd 228.802†	4443.0	0.51481	mg/L	0.002373	0.51481	mg/L	0.002373	0.46%
QC value within limits for Cd 228.802 Recovery = 102.96%								
Cd 226.502†	13339.0	0.52793	mg/L	0.001844	0.52793	mg/L	0.001844	0.35%
Cr 267.716†	10981.1	0.51575	mg/L	0.000504	0.51575	mg/L	0.000504	0.10%
Cr 205.560†	8876.3	0.51434	mg/L	0.002078	0.51434	mg/L	0.002078	0.40%
QC value within limits for Cr 205.560 Recovery = 102.87%								
Pb 220.353†	1554.0	0.51428	mg/L	0.001867	0.51428	mg/L	0.001867	0.36%
QC value within limits for Pb 220.353 Recovery = 102.86%								
Pb 217.000†	361.3	0.50547	mg/L	0.001021	0.50547	mg/L	0.001021	0.20%
Se 203.985†	216.5	0.50841	mg/L	0.012066	0.50841	mg/L	0.012066	2.37%
Se 196.026†	246.6	0.52524	mg/L	0.009759	0.52524	mg/L	0.009759	1.86%
QC value within limits for Se 196.026 Recovery = 105.05%								

All analyte(s) passed QC.

Sequence No.: 67 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 9/4/2014 10:44:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	580784.3	101.59	%	0.797				0.78%
Ag 328.068†	35.4	0.00044	mg/L	0.000275	0.00044	mg/L	0.000275	61.99%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.0	-0.00009	mg/L	0.002528	-0.00009	mg/L	0.002528	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.6	-0.00122	mg/L	0.001498	-0.00122	mg/L	0.001498	122.40%
Ba 233.527†	65.6	0.00172	mg/L	0.000136	0.00172	mg/L	0.000136	7.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.2	0.00025	mg/L	0.000334	0.00025	mg/L	0.000334	131.38%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	7.1	0.00028	mg/L	0.000200	0.00028	mg/L	0.000200	71.67%

Cr 267.716†	6.3	0.00030 mg/L	0.000116	0.00030 mg/L	0.000116	38.81%
Cr 205.560†	14.7	0.00085 mg/L	0.001240	0.00085 mg/L	0.001240	145.99%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Pb 220.353†	7.0	0.00233 mg/L	0.000946	0.00233 mg/L	0.000946	40.56%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	1.3	0.00181 mg/L	0.002386	0.00181 mg/L	0.002386	132.07%
Se 203.985†	-10.8	-0.02544 mg/L	0.015203	-0.02544 mg/L	0.015203	59.75%
Se 196.026†	3.2	0.00671 mg/L	0.005332	0.00671 mg/L	0.005332	79.43%
QC value within limits for Se 196.026 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: 1409046-007APS 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 341
Date Collected: 9/4/2014 10:45:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409046-007APS 2x

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1409046-007APS 2x

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	634682.5	111.02	%	0.274				0.25%
Ag 328.068†	35419.0	0.44366	mg/L	0.001009	0.44366	mg/L	0.001009	0.23%
As 188.979†	200.0	0.48100	mg/L	0.012496	0.48100	mg/L	0.012496	2.60%
As 193.696†	110.8	0.23320	mg/L	0.021981	0.23320	mg/L	0.021981	9.43%
Ba 233.527†	37422.5	0.98121	mg/L	0.001571	0.98121	mg/L	0.001571	0.16%
Cd 228.802†	3734.3	0.43269	mg/L	0.002714	0.43269	mg/L	0.002714	0.63%
Cd 226.502†	10427.3	0.41269	mg/L	0.000633	0.41269	mg/L	0.000633	0.15%
Cr 267.716†	11648.2	0.54708	mg/L	0.001136	0.54708	mg/L	0.001136	0.21%
Cr 205.560†	9003.5	0.52171	mg/L	0.003956	0.52171	mg/L	0.003956	0.76%
Pb 220.353†	1495.0	0.49475	mg/L	0.006108	0.49475	mg/L	0.006108	1.23%
Pb 217.000†	430.4	0.60216	mg/L	0.017191	0.60216	mg/L	0.017191	2.85%
Se 203.985†	180.0	0.42258	mg/L	0.034658	0.42258	mg/L	0.034658	8.20%
Se 196.026†	192.8	0.41056	mg/L	0.041203	0.41056	mg/L	0.041203	10.04%

Sequence No.: 69
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/4/2014 10:47:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	569705.4	99.654	%	0.5214				0.52%
Ag 328.068†	39875.8	0.49948	mg/L	0.000727	0.49948	mg/L	0.000727	0.15%
QC value within limits for Ag 328.068 Recovery = 99.90%								
As 188.979†	216.2	0.52015	mg/L	0.010149	0.52015	mg/L	0.010149	1.95%
QC value within limits for As 188.979 Recovery = 104.03%								
As 193.696†	246.5	0.51873	mg/L	0.004100	0.51873	mg/L	0.004100	0.79%
Ba 233.527†	19894.4	0.52163	mg/L	0.002075	0.52163	mg/L	0.002075	0.40%
QC value within limits for Ba 233.527 Recovery = 104.33%								
Cd 228.802†	4478.9	0.51897	mg/L	0.003485	0.51897	mg/L	0.003485	0.67%
QC value within limits for Cd 228.802 Recovery = 103.79%								
Cd 226.502†	13328.1	0.52750	mg/L	0.000640	0.52750	mg/L	0.000640	0.12%

Cr 267.716†	11001.3	0.51670 mg/L	0.001504	0.51670 mg/L	0.001504	0.29%
Cr 205.560†	8894.0	0.51536 mg/L	0.004506	0.51536 mg/L	0.004506	0.87%
QC value within limits for Cr 205.560 Recovery = 103.07%						
Pb 220.353†	1563.6	0.51746 mg/L	0.002333	0.51746 mg/L	0.002333	0.45%
QC value within limits for Pb 220.353 Recovery = 103.49%						
Pb 217.000†	366.0	0.51201 mg/L	0.011964	0.51201 mg/L	0.011964	2.34%
Se 203.985†	218.8	0.51379 mg/L	0.004767	0.51379 mg/L	0.004767	0.93%
Se 196.026†	248.5	0.52930 mg/L	0.011831	0.52930 mg/L	0.011831	2.24%
QC value within limits for Se 196.026 Recovery = 105.86%						

All analyte(s) passed QC.

Sequence No.: 70
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/4/2014 10:48:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	584117.8	102.18	%	0.584				0.57%
Ag 328.068†	15.1	0.00019	mg/L	0.000074	0.00019	mg/L	0.000074	39.19%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.1	0.00019	mg/L	0.000419	0.00019	mg/L	0.000419	224.47%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.9	0.00398	mg/L	0.008989	0.00398	mg/L	0.008989	225.74%
Ba 233.527†	58.0	0.00152	mg/L	0.000738	0.00152	mg/L	0.000738	48.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	4.4	0.00051	mg/L	0.000324	0.00051	mg/L	0.000324	63.14%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	8.0	0.00032	mg/L	0.000058	0.00032	mg/L	0.000058	18.18%
Cr 267.716†	0.3	0.00001	mg/L	0.000111	0.00001	mg/L	0.000111	937.70%
Cr 205.560†	14.8	0.00086	mg/L	0.000508	0.00086	mg/L	0.000508	59.25%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	5.9	0.00194	mg/L	0.002254	0.00194	mg/L	0.002254	116.11%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	0.3	0.00038	mg/L	0.002165	0.00038	mg/L	0.002165	562.45%
Se 203.985†	-6.9	-0.01631	mg/L	0.012842	-0.01631	mg/L	0.012842	78.75%
Se 196.026†	6.5	0.01374	mg/L	0.010055	0.01374	mg/L	0.010055	73.17%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/4/2014 10:49:15 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 9/4/2014 7:18:01 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090414 B15088.sif
Batch ID: 090414 B15088
Results Data Set: 090414 B15088
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

---

Sequence No.: 72
Sample ID: DI RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 7
Date Collected: 9/4/2014 10:49:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

9.8.14

Analytical Report
Lab Order: **1409136**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409136

Lab ID: 1409136-001 **Collection Date:** 9/3/2014 12:04:00 PM
Client Sample ID: FFOR-CF-0061 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	4.2	1.0		wt%	1	R21008	9/4/2014 9:51:00 AM

Lab ID: 1409136-002 **Collection Date:** 9/3/2014 12:10:00 PM
Client Sample ID: FFOR-CF-0062 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.2	1.0		wt%	1	R21008	9/4/2014 9:51:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-4-14			Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 9-4-14 9:51am	Start Temp: 110C		Reviewed by: JA 9.5.14
End time: 9-5-14 8:10am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1409136-001a	32.3	40.35				8.0120		#VALUE!
1409136-002a	31.8	39.57				7.7910		#VALUE!
MeOH Kits								#VALUE!
1409136-001a	25.7	40.92	1.00	2.00	2.00	15.2200	0.0000	0.6570
1409136-002a	25.7	40.09	1.00	2.00	2.00	14.3900	0.0000	0.6949
Pmoist								#VALUE!
1409136-001a			1.35	26.15	25.11		4.1935	#VALUE!
1409136-002a			1.31	24.80	22.87		8.2163	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1409136-001a $\frac{26.15 - 25.11}{26.15 - 1.35} \times 100 = 4.1935\%$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))** JA 9.5.14

HEAL ID #

1409136-001a $\frac{10g}{15.22g} = 0.6570$

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/4/2014 9:16:18 A**
Prep End Date: **9/4/2014 10:27:51 A**

Prep Batch ID: **15112** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
1409046-001A	FFOR-CF-0054	MeOH (Soil)			7.552	0	0	5	0.662	9/4/2014	9/4/2014
1409046-001AMS		MeOH (Soil)			7.52	0	0	5	0.665	9/4/2014	9/4/2014
1409046-001AMSD		MeOH (Soil)			7.5	0	0	5	0.667	9/4/2014	9/4/2014
1409046-002A	FFOR-CF-0055	MeOH (Soil)			7.301	0	0	5	0.685	9/4/2014	9/4/2014
1409046-004A	FFOR-CF-0057	MeOH (Soil)			7.779	0	0	5	0.643	9/4/2014	9/4/2014
1409046-005A	FFOR-CF-0058	MeOH (Soil)			7.657	0	0	5	0.653	9/4/2014	9/4/2014
1409136-001A	FFOR-CF-0061	MeOH (Soil)			8.012	0	0	5	0.624	9/4/2014	9/4/2014
LCS-15112		Solid			5	0	0	5	1.000	9/4/2014	9/4/2014
MB-15112		Solid			5	0	0	5	1.000	9/4/2014	9/4/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8073	8260-5035 Low LCS/MS/MSD	lcs/ms/msd	26527	Container-01 of 01	1	µL

Analytical Report
Lab Order: **1409136**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-001 **Collection Date:** 9/3/2014 12:04:00 PM
Client Sample ID: FFOR-CF-0061 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	7.9	9.9	J	mg/Kg	1	15106	9/4/2014 10:41:13 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	15106	9/4/2014 10:41:13 AM
Surr: DNOP	76.5	57.9-140		%REC	1	15106	9/4/2014 10:41:13 AM

Lab ID: 1409136-002 **Collection Date:** 9/3/2014 12:10:00 PM
Client Sample ID: FFOR-CF-0062 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	330	10		mg/Kg	1	15106	9/4/2014 12:11:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	15106	9/4/2014 12:11:13 PM
Surr: DNOP	83.1	57.9-140		%REC	1	15106	9/4/2014 12:11:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/4/2014 8:16:50 A**
Prep End Date: **9/4/2014 9:50:44 A**

Reviewed By: 9/5/14

Prep Factor Units: **mL / g**

BN 9.4.14

Prep Batch ID: **15106** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**

Initial Temp: **°C** Final Temp **°C**

BN 9.4.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15106		Soil	BN 9.4.14		10	0	0	10	1.000	9/4/2014	9/4/2014
LCS-15106		Soil			10	0	0	10	1.000	9/4/2014	9/4/2014
1409136-001A	FFOR-CF-0061	MeOH (Soil)			10.08	0	0	10	0.992	9/4/2014	9/4/2014
1409136-001AMS		MeOH (Soil)			10.05	0	0	10	0.995	9/4/2014	9/4/2014
1409136-001AMSD		MeOH (Soil)			9.91	0	0	10	1.009	9/4/2014	9/4/2014
1409136-002A	FFOR-CF-0062	MeOH (Soil)			10	0	0	10	1.000	9/4/2014	9/4/2014
1409140-001A	SC-9	Soil			10.1	0	0	10	0.990	9/4/2014	9/4/2014
1409140-002A	SC-10	Soil			10.12	0	0	10	0.988	9/4/2014	9/4/2014
1409140-001A	95 BGT 5-pt @ 6	Soil			10.1	0	0	10	0.990	9/4/2014	9/4/2014
1409140-002A	21 BGT 5-pt @ 5	Soil			9.94	0	0	10	1.006	9/4/2014	9/4/2014
[illegible]	[illegible]	Soil			10	0	0	10	1.000	9/4/2014	
[illegible]	Newman C-5 Spill Sid	Soil			10	0	0	10	1.000	9/4/2014	
[illegible]	Newman C-5 E Spill B	Soil			10	0	0	10	1.000	9/4/2014	
[illegible]	[illegible]	Soil			10	0	0	10	1.000	9/4/2014	
[illegible]	[illegible]	Soil			10	0	0	10	1.000	9/4/2014	
[illegible]	[illegible]	Soil			10	0	0	10	1.000	9/4/2014	

9/5/14
re-analyzed at RT Hicks 10.04 10.03 9.90 10.03 10.12 QUANTITY

[illegible]	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
[illegible]	[illegible]	[illegible]	Container 01 of 01	0	mL
[illegible]	[illegible]	[illegible]	Container 01 of 01	0	mL
[illegible]	[illegible]	[illegible]	Container 01 of 01	0	mL

[illegible]	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

8015D DRO
Calibration Summary

Instrument: FID#2

Date: 08/13/14

Method: 8015D

Calibration Name: DRO FID#2 081314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: Janice Earley

QA:

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [illegible] and [illegible].

Sequence Print

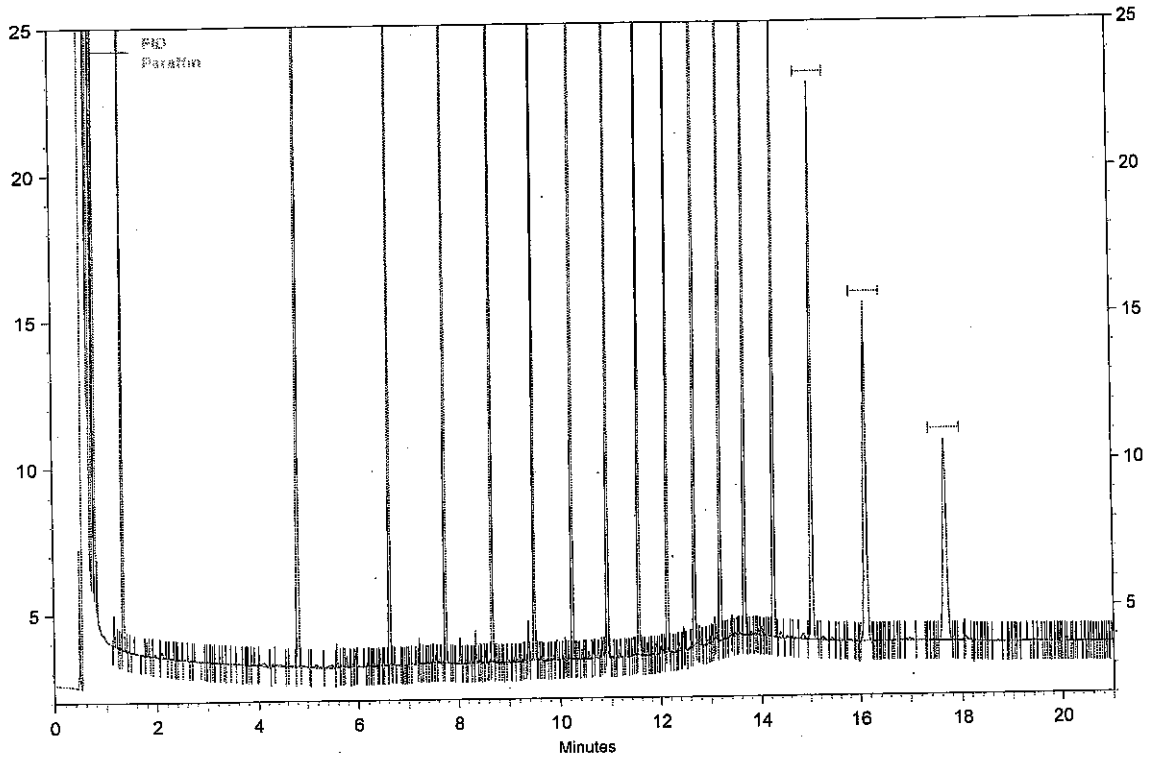
BN 9.4.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1409018-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1409018-001A <D>.dat	1
6	Unknown	0	1	1409136-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1409136-001A <D>.dat	1
7	Unknown	0	1	1409136-001AMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1409136-001A MS <D>.dat	1
8	Unknown	0	1	1409136-001AMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1409136-001A MSD <D>.dat	1
9	Unknown	0	1	1409136-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1409136-002A <D>.dat	1
10	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

9/5/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 09-04-14 8-02-47 AM.dat
Aquired: 9/4/2014 8:11:07 AM



FID Results

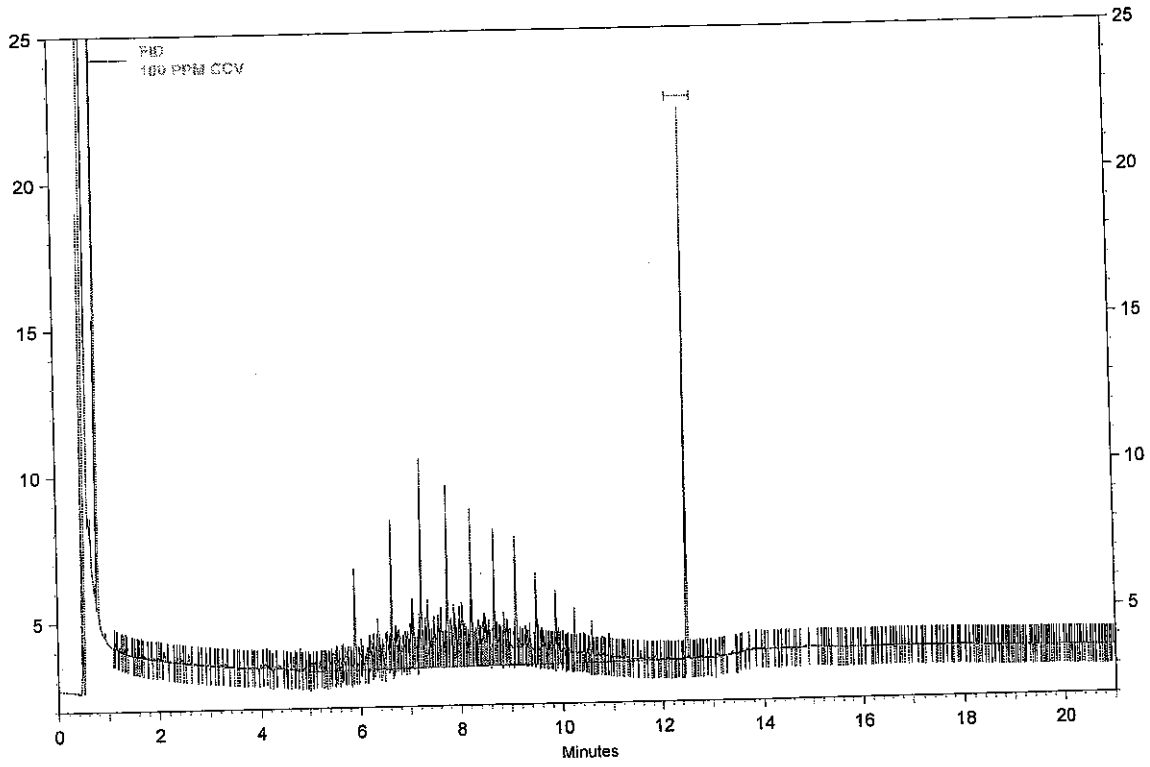
Name	Retention Time	Area	ug/ml
C08	1.34	57360	0.000
C10	4.81	100997	0.000
C12	6.62	108301	0.000
C14	7.74	110251	0.000
C16	8.67	111124	0.000
C18	9.49	110733	0.000
C20	10.23	111663	0.000
C22	10.91	109031	0.000
C24	11.54	108359	0.000
C26	12.13	111504	0.000
C28	12.67	113035	0.000
C30	13.18	107965	0.000
C32	13.66	88066	0.000
C34	14.24	61943	0.000
C36	15.03	47304	0.000
C38	16.11	40116	0.000
C40	17.66	35123	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 09-04-14 8-32-29 AM.dat
Aquired: 9/4/2014 8:41:08 AM



FID Results

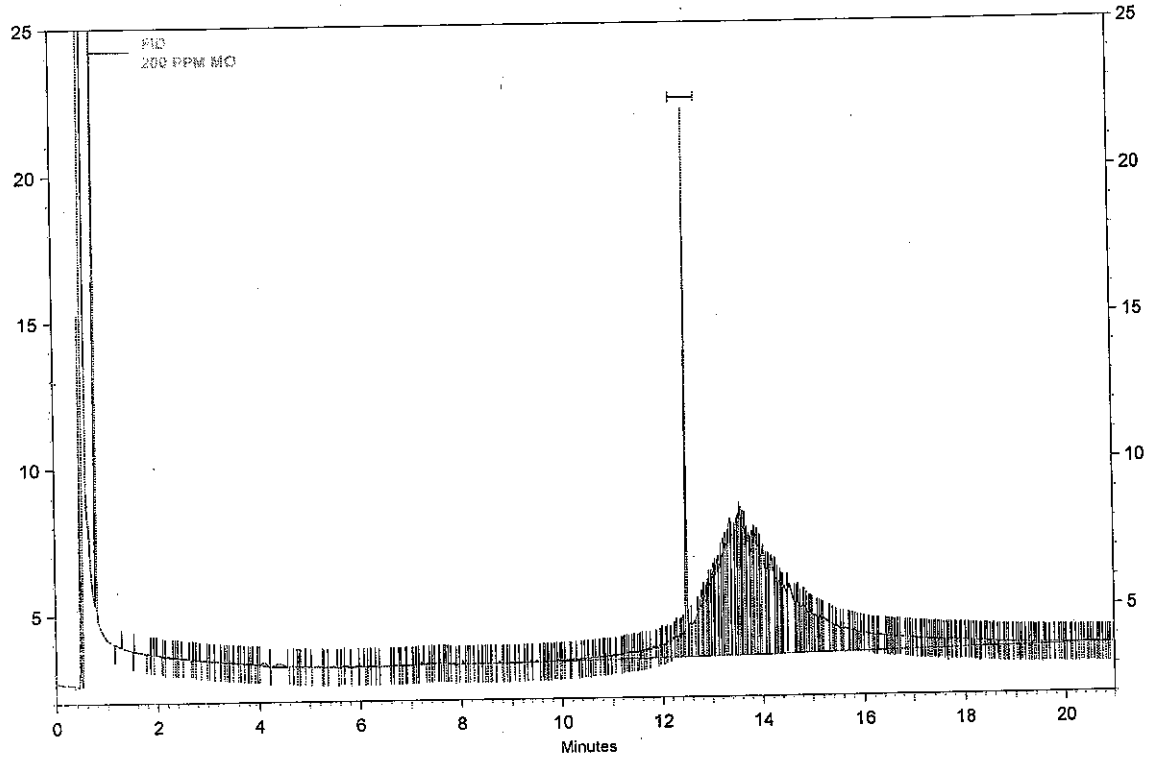
Name	Retention Time	Area	ug/ml
DNOP	12.48	20663	8.092
DRO		244197	89.917
MRO		3490	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1571**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 09-04-14 9-02-31 AM.dat
Aquired: 9/4/2014 9:11:21 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	23812	9.264
DRO		25124	9.947
MRO		433420	175.273

Analyst BN

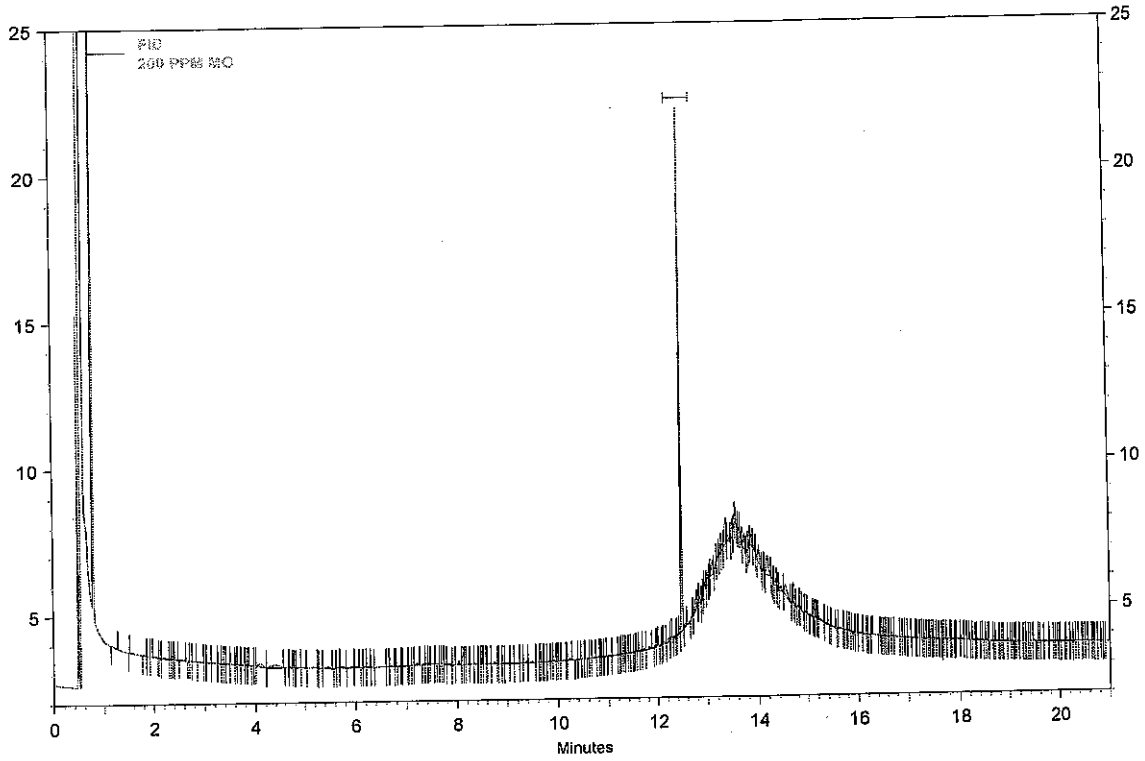
Reviewed By

9.264
−7.811
1.453

+175.273
176.726 X100
200
=88363%

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1571**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 09-04-14 9-02-31 AM.dat
Aquired: 9/4/2014 9:11:21 AM



FID Results

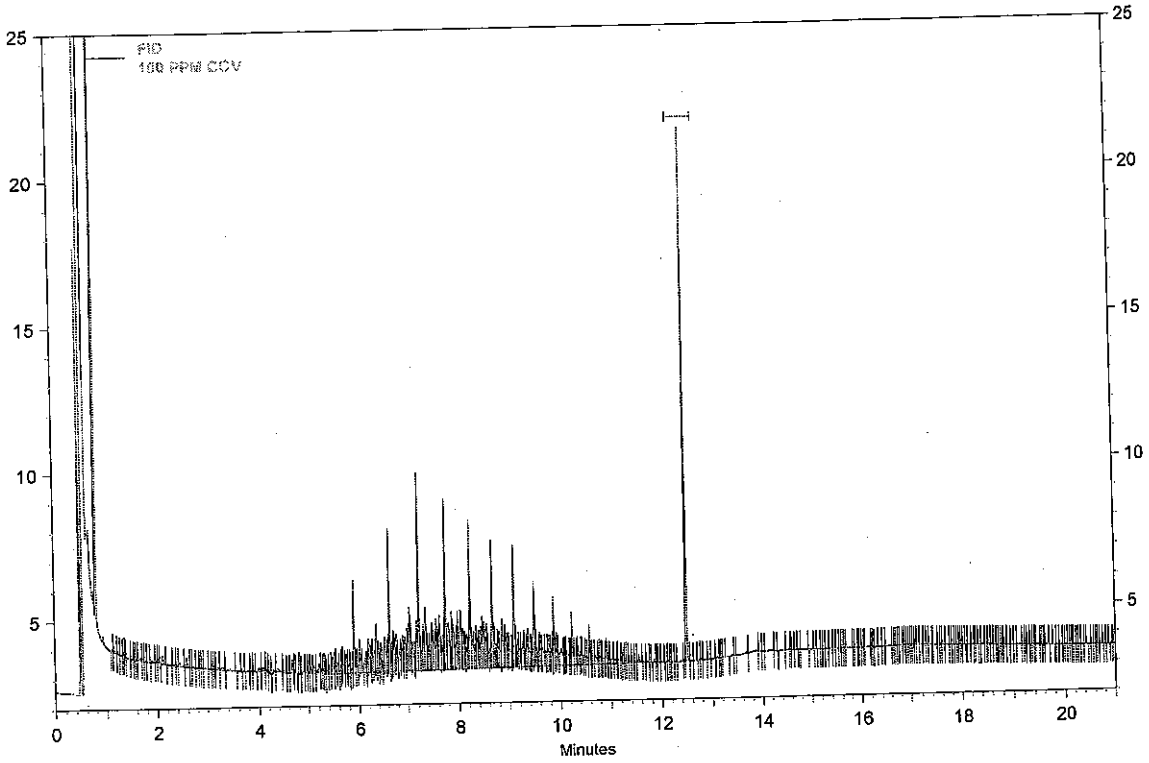
Name	Retention Time	Area	ug/ml
DNOP	12.48	19907	7.811
DRO		5555	2.831
MRO		19520	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 09-04-14 12-32-37 PM.dat
Aquired: 9/4/2014 12:41:16 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	20298	7.956
DRO		221730	81.690
MRO		2998	0.000

Analyst BN

Reviewed By

reporting all samples with adequate surr. recoveries.
9/5/14

Calibration Report

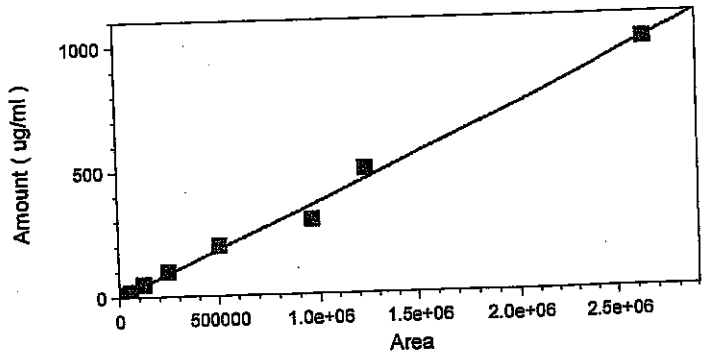
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000346663 RF StDev: 8.44404e-005 RF %RSD: 24.3580
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.91807e-012x^2 + 0.000363445x + 0.812271
Goodness of fit (r^2): 0.993892

8/14/14

✓ dam 8/14/14

Group: DRO ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	27005	32411	56634	121544	244238
RF	0.000148120	0.00030853722	0.000353144754	0.000411373658	0.0004094366
	718385484	5016198	034679	921872	96992278
Last Area					
Residual	-6.63141	-2.59809	-1.41457	4.92579	10.0677
Rep StDev					
Rep %RSD					
Rep 1 Area	27005	32411	56634	121544	244238
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80 15dro\Data 2014\FID#2\ Data\4 PPM	H:\EZsemi\801 5dro\Data 2014\FID#2\Da ta\10 PPM	H:\EZsemi\8015 dro\Data 2014\FID#2\Dat a\20 PPM	H:\EZsemi\8015 dro\Data 2014\FID#2\Dat a\50 PPM	H:\EZsemi\801 5dro\Data 2014\FID#2\D ata\100 PPM
	08-13-14 10-57-57 AM.dat	08-13-14 11-20-35 AM.dat	08-13-14 11-50-07 AM.dat	08-13-14 12-19-53 PM.dat	08-13-14 12-49-56 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014 8:06:32 AM	8/14/2014 8:06:50 AM	8/14/2014 8:07:05 AM	8/14/2014 8:07:17 AM	8/14/2014 8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	505776	964738	1236689	2640934
RF	0.000395431	0.00031096525	0.000404305366	0.000378653915
	969883901	6888399	992025	622276
Last Area				
Residual	13.8523	-56.9492	40.6687	-1.92124
Rep StDev				
Rep %RSD				
Rep 1 Area	505776	964738	1236689	2640934
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

Calibration Report

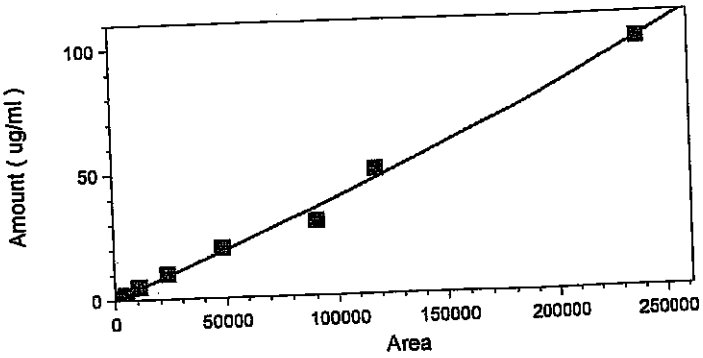
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000417492 RF StDev: 3.65729e-005 RF %RSD: 8.76013
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.44160e-010x^2 + 0.000361222x + 0.523704
Goodness of fit (r^2): 0.994928

JZ 8/14/14

Jdm 8/14/14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	919	2333	4919	10680	23365
RF	0.000435255 71273123	0.00042863266 180883	0.000406586704 614759	0.000468164794 007491	0.0004279905 84207147
Last Area					
Residual	-0.455874	-0.367764	-0.306464	0.590594	0.903049
Rep StDev					
Rep %RSD					
Rep 1 Area	919	2333	4919	10680	23365
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 08-13-14 10-57-57 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 08-13-14 11-20-35 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 08-13-14 11-50-07 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 08-13-14 12-19-53 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 08-13-14 12-49-56 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014 8:06:32 AM	8/14/2014 8:06:50 AM	8/14/2014 8:07:05 AM	8/14/2014 8:07:17 AM	8/14/2014 8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	48359	90478	117643	237733
RF	0.000413573	0.00033157231	0.000425014663	0.000420639961
	481668355	5922103	005874	637636
Last Area				
Residual	1.43697	-5.20512	3.6019	-0.197294
Rep StDev				
Rep %RSD				
Rep 1 Area	48359	90478	117643	237733
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

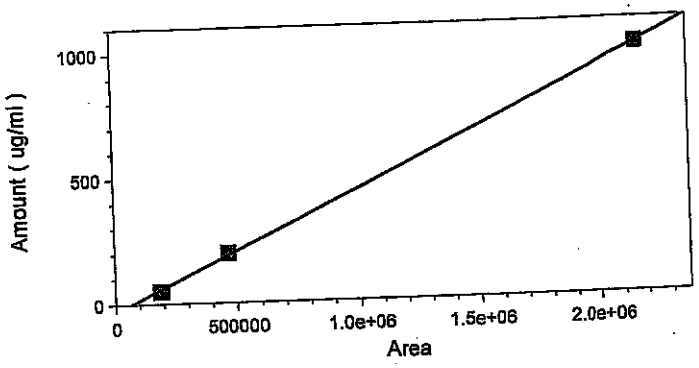
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000386051 RF StDev: 0.000105388 RF %RSD: 27.2989
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000478515x - 32.1253
Goodness of fit (r^2): 0.999719

JE 8/14/14 JAM 8/14/14

Group: MRO -- ESTD -- FID



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	188011	466019	2159622
RF	0.000265941	0.00042916705	0.000463043995
	886378988	1128817	662204
~~Last Area~~			
Residual	-7.8409	9.128	-1.2871
Rep StDev			
Rep %RSD			
Rep 1 Area	188011	466019	2159622
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-13-14 4-17-38 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/14/2014 8:08:47 AM	8/14/2014 8:09:01 AM	8/14/2014 8:09:19 AM

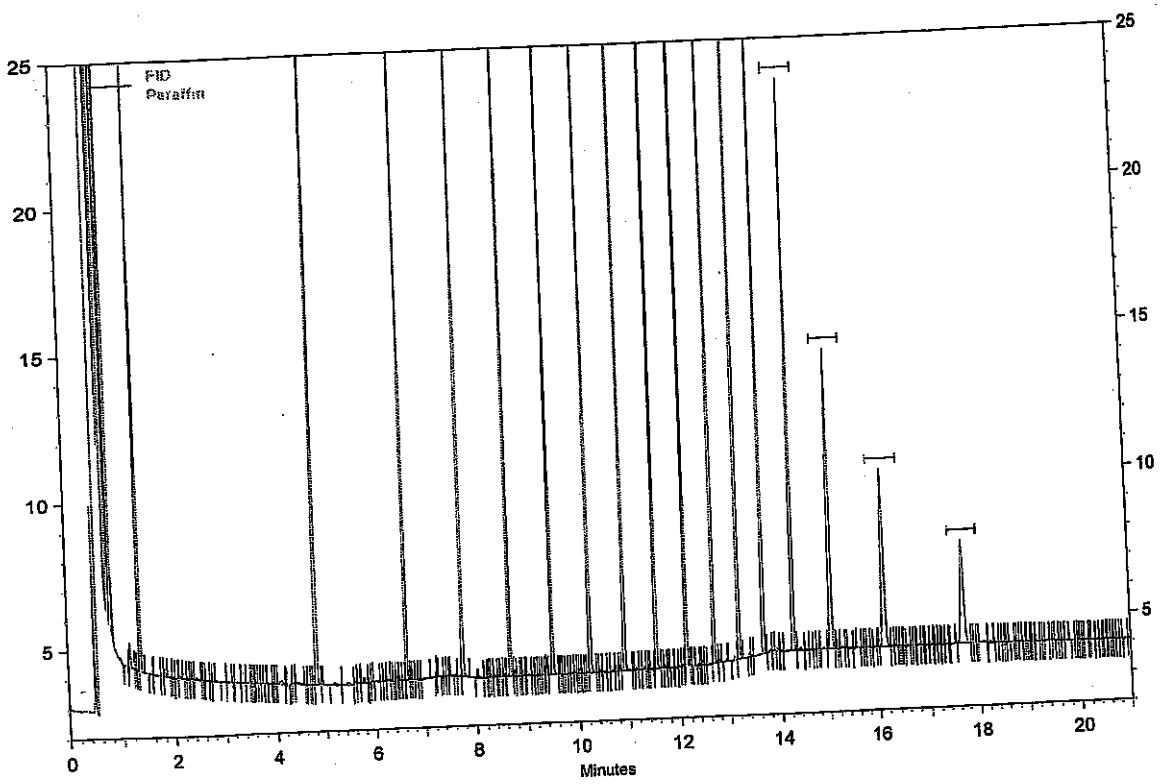
JE 8/13/14 J dam 8/14/14

uence Print

ın #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
	Unknown	0	1	Conditione r	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
	Unknown	0	1	4 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
	Unknown	0	1	10 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
	Unknown	0	1	20 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
;	Unknown	0	1	50 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

ɹment: **FID 2 (Offline)** Vial #: **2** User: **System**
ɲple ID: **Paraffin** Data Descritpion: **SV109-1527**

hod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-13-14 10-05-56 AM.dat
iired: 8/13/2014 10:13:00 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.34	44427	0.000
C10	4.81	53253	0.000
C12	6.63	54425	0.000
C14	7.74	56231	0.000
C16	8.67	57801	0.000
C18	9.49	58746	0.000
C20	10.23	60486	0.000
C22	10.91	60785	0.000
C24	11.54	60762	0.000
C26	12.12	63147	0.000
C28	12.67	64114	0.000
C30	13.18	60489	0.000
C32	13.66	48564	0.000
C34	14.24	34124	0.000
C36	15.03	25415	0.000
C38	16.12	21657	0.000
C40	17.67	18490	0.000

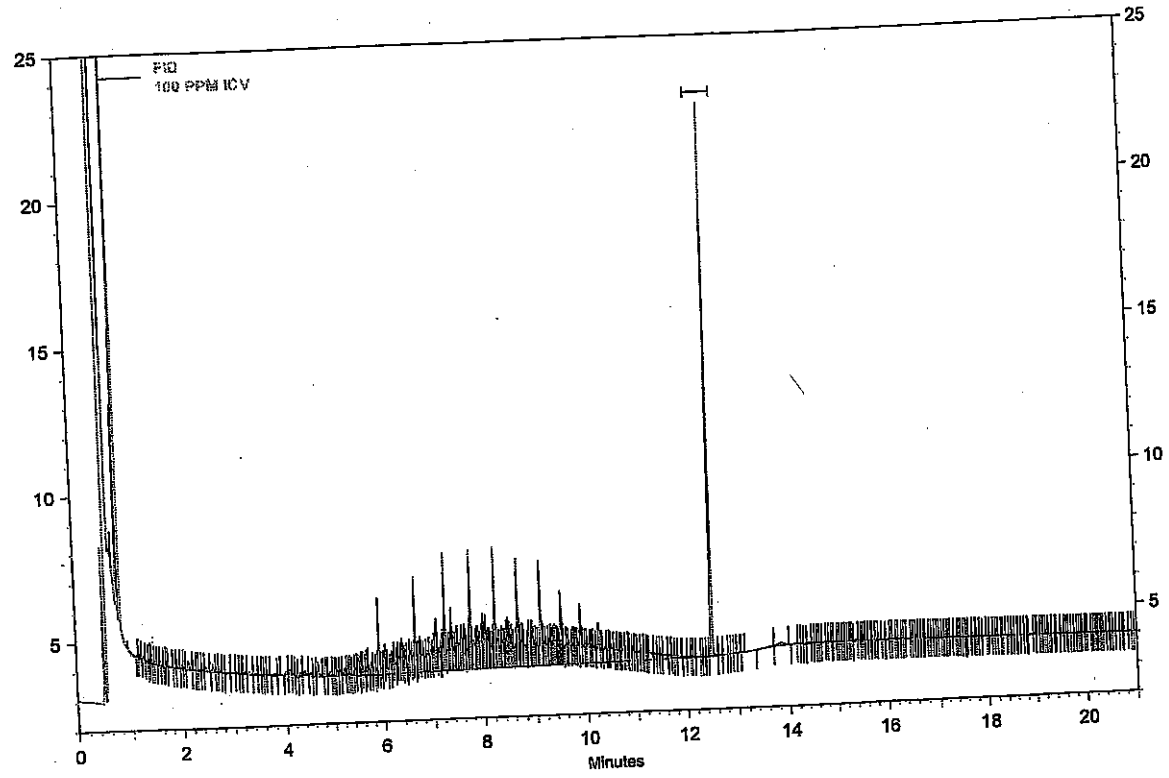
Analyst JL

Reviewed By dam

updated ret. times

ument: **FID 2 (Offline)** Vial #: **12** User: **System**
nple ID: **100 PPM ICV** Data Descritpion: **SV109-1542**

thod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 08-13-14 3-17-55 PM.dat
uired: 8/13/2014 3:26:34 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21044	8.233
DRO		230919	85.054
MRO		3140	0.000

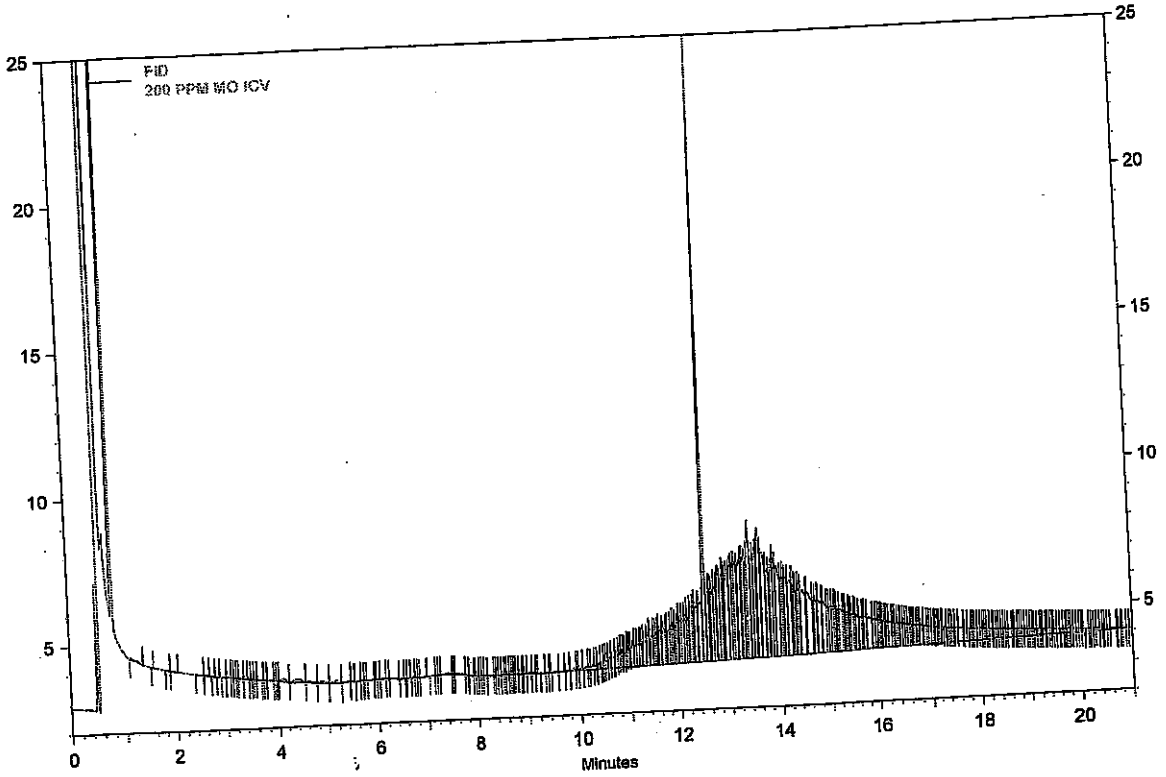
±20%

Analyst _____

Reviewed By _____

tument: **FID 2 (Offline)** Vial #: **16** User: **System**
mple ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

ethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
e: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
uired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	33450	12.880
DRO		86640	32.346
MRO		485663	200.272

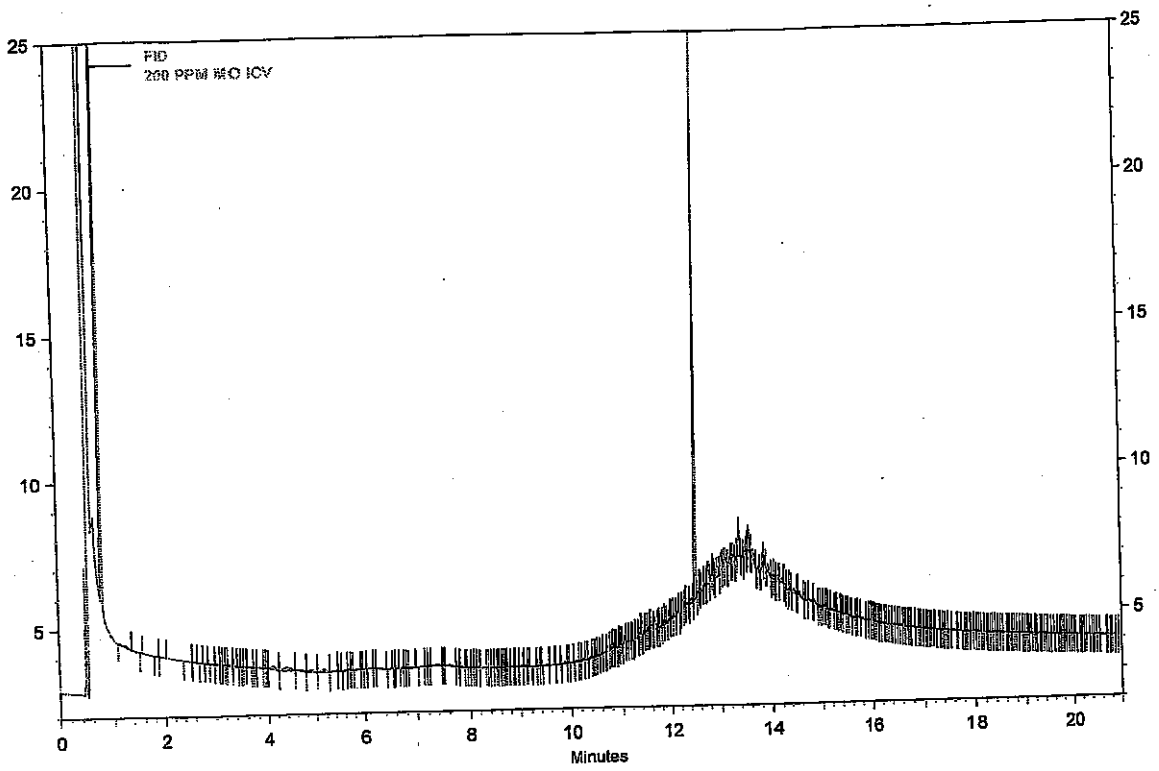
Analyst _____

Reviewed By dsm

12.880
- 9.590
3.29
+200.272
203.562 X100 = 101.78 %
200
±20%

stument: **FID 2 (Offline)** Vial #: **16** User: **System**
mple ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

ethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
e: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
uired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	25141	9.590
DRO		10275	4.352
MRO		19443	0.000

Analyst _____

Reviewed By _____

WB 9/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409136**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-001
Collection Date: 9/3/2014 12:04:00 PM
Client Sample ID: FFOR-CF-0061
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg-dry	1	R21010	9/4/2014 11:40:01 AM
Surr: BFB	108	61.2-137		%REC	1	R21010	9/4/2014 11:40:01 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409136**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-002
Client Sample ID: FFOR-CF-0062
Collection Date: 9/3/2014 12:10:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Toluene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Ethylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Methyl tert-butyl ether (MTBE)	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2,4-Trimethylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,3,5-Trimethylbenzene	0.36	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2-Dichloroethane (EDC)	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2-Dibromoethane (EDB)	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Naphthalene	0.27	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Acetone	ND	0.57		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Bromobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Bromodichloromethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Bromoform	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Bromomethane	ND	0.11		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
2-Butanone	ND	0.38		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Carbon disulfide	ND	0.38		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Carbon tetrachloride	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Chlorobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Chloroethane	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Chloroform	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Chloromethane	ND	0.11		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
2-Chlorotoluene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
4-Chlorotoluene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
cis-1,2-DCE	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
cis-1,3-Dichloropropene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2-Dibromo-3-chloropropane	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Dibromochloromethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Dibromomethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2-Dichlorobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,3-Dichlorobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,4-Dichlorobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Dichlorodifluoromethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1-Dichloroethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1-Dichloroethene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2-Dichloropropane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,3-Dichloropropane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
2,2-Dichloropropane	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1-Dichloropropene	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Hexachlorobutadiene	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Comment: DUE 09/08/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	0.38		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Isopropylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
4-Isopropyltoluene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
4-Methyl-2-pentanone	ND	0.38		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Methylene chloride	0.037	0.11	J	mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
n-Butylbenzene	ND	0.11		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
n-Propylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
sec-Butylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Styrene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
tert-Butylbenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1,1,2-Tetrachloroethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1,2,2-Tetrachloroethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Tetrachloroethene (PCE)	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
trans-1,2-DCE	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
trans-1,3-Dichloropropene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2,3-Trichlorobenzene	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2,4-Trichlorobenzene	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1,1-Trichloroethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,1,2-Trichloroethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Trichloroethene (TCE)	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Trichlorofluoromethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
1,2,3-Trichloropropane	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Vinyl chloride	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Xylenes, Total	ND	0.076		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Bromochloromethane	ND	0.038		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Vinyl acetate	ND	0.38		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Surr: Dibromofluoromethane	85.6	70-130		%REC	1	R21010	9/4/2014 12:08:09 PM
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%REC	1	R21010	9/4/2014 12:08:09 PM
Surr: Toluene-d8	91.0	70-130		%REC	1	R21010	9/4/2014 12:08:09 PM
Surr: 4-Bromofluorobenzene	277	70-130	S	%REC	1	R21010	9/4/2014 12:08:09 PM

Comment: DUE 09/08/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	130	3.8		mg/Kg-dry	1	R21010	9/4/2014 12:08:09 PM
Surr: BFB	346	61.2-137	S	%REC	1	R21010	9/4/2014 12:08:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-004
Client Sample ID: MEOH BLANK
Collection Date:
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Toluene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Ethylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Naphthalene	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Acetone	ND	0.75		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Bromobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Bromoform	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Bromomethane	ND	0.15		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
2-Butanone	ND	0.50		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Carbon disulfide	ND	0.50		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Chlorobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Chloroethane	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Chloroform	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Chloromethane	ND	0.15		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Dibromomethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Comment: DUE 09/08/2014, LEVEL 3.

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Methylene chloride	0.046	0.15	J	mg/Kg	1	R21010	9/4/2014 11:10:43 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Styrene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Vinyl chloride	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Xylenes, Total	ND	0.10		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Bromochloromethane	ND	0.050		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Vinyl acetate	ND	0.50		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Surr: Dibromofluoromethane	87.9	70-130		%REC	1	R21010	9/4/2014 11:10:43 AM
Surr: 1,2-Dichloroethane-d4	83.0	70-130		%REC	1	R21010	9/4/2014 11:10:43 AM
Surr: Toluene-d8	97.3	70-130		%REC	1	R21010	9/4/2014 11:10:43 AM
Surr: 4-Bromofluorobenzene	85.6	70-130		%REC	1	R21010	9/4/2014 11:10:43 AM

Comment: DUE 09/08/2014, LEVEL 3.

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R21010	9/4/2014 11:10:43 AM
Surr: BFB	97.9	61.2-137		%REC	1	R21010	9/4/2014 11:10:43 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Thu Sep 04 16:21:06 2014

mpleList: C:\VarianWS\090414v.smp

eated: Thu Sep 04 07:26:13 2014
dified: Thu Sep 04 16:20:52 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes	v-18-2064. all injection contain v-52-0526
2	b1	none ← Tune 8:22
3	2.5ug gro ccv	below @ 8:50
	Notes	v-18-2074
4	2.5ug gro lcs	below
	Notes	v-18-2067
5	50ng ccv	below @ 9:46
	Notes	v-54-0475
6	100ng lcs	below
	Notes	v-11-8070
7	vcb1	none
8	1409136-004a	below
	Notes	x1-100uL MeOH Blk GRO, 8260
9	1409136-001a	below
	Notes	x1-100uL MeOH GRO
10	1409136-002a	below
	Notes	x1-100uL MeOH GRO, 8260
11	b2	none ← Tune 12:36
12	1409046-001a	below
	Notes	x1-100uL MeOH GRO x1 00 ✓
13	1409046-002a	below
	Notes	x1-100uL MeOH GRO
14	1409046-004a	below
	Notes	x1-100uL MeOH GRO
15	1409046-005a	below
	Notes	x1-100uL MeOH GRO
16	1409046-001a ms g	below
	Notes	V-18-2067 MeOH
17	1409046-001a msd g	below
	Notes	V-18-2067 MeOH
18	1408f15-001ams	below
	Notes	x10 V-11-8069 PB15040 SoilTCLP
19	1408f15-001amsd	below
	Notes	x10 V-11-8069 PB15040 SoilTCLP
20	1408f15-002a	below
	Notes	x10-10uL PB15040
21	1408f15-003a	below
	Notes	x10-10uL PB15040
22	1408f15-004a	below
	Notes	x10-10uL PB15040
23	1408f15-005a	below
	Notes	x10-10uL PB15040
24	1408f15-006a	below
	Notes	x10-10uL PB15040
25	lcs-15046	below
	Notes	V-11-8069 V_O
26	lcsd-15046	below
	Notes	V-11-8069 V_O
27	mb-15046	below
	Notes	4681 V_O
28	1408f17-002a	below
	Notes	x100-100uL PB15046 V_O
29	1408f17-003a	below
	Notes	x100-100uL PB15046 V_O P50, 4K
30 @9:29	lcs-15069	below
	Notes	V-11-8070 TCLP
31	tt	none
32	b3	none ← Tune 10:25
33	100ng ccv	below @ 10:53
	Notes	V-54-0475
34	vcb2	none
35	mb-15069	below
	Notes	TCLP Fluid#1-1422
36	1408f14-001a	below
	Notes	x1-TCLP PB15069

DF 9/4/2014
Loaded By: DF 9-4-14
1st Review By: M 9-5-14
QA'd By: ✓
VB 9/8/14

38	1408f14-001amsd	below	
	Notes	V-11-8070 TCLP PB15069	
39	1408f14-002a	below	
	Notes	x1-TCLP PB15069	
40	lcs-15063	below	
	Notes	V-11-8070	
41	mb-15063	below	
	Notes	4681	
42	1408f23-001a	below	
	Notes	x1-100uL PB15063	
43	1408f23-001ams	below	
	Notes	V-11-8070 PB15063	
44	1408f23-001amsd	below	
	Notes	V-11-8070 PB15063	
45	1409061-001a	below	
	Notes	x1-100uL MeOH QCw/PB15063	
46	1409061-002a	below	
	Notes	x1-100uL MeOH QCw/PB15063	
47	1409061-005a	below	
	Notes	x1-100uL MeOH Blk QCw/PB15063	
48	1409062-001a	below	
	Notes	x50-2uL MeOH QCw/PB15063	
49	1409062-002a	below	
	Notes	x5-20uL MeOH QCw/PB15063	
50 @ 6:48	1409062-007a	below	
	Notes	x1-100uL MeOH Blk QCw/PB15063	
51	-3 x10	none	
52	-2 x10	none	
53	tt	none	
54			

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\090414v.rcl.

Loaded By: 9-4-14 DF 9/4/2014
1st Review By: 9-5-14
QA'd By: ✓ NB 9/8/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090414v\50ng ccv 9-4-2014.SMS Lab Sample ID: 50ng ccv

Instrument ID: VAL Date Analyzed: 9/4/2014 Time Analyzed: 09:46

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	26171	8.00	37895	14.31	21361	17.92						
UPPER LIMIT	52342	8.50	75790	14.81	42722	18.42						
LOWER LIMIT	13086	7.50	18948	13.81	10681	17.42						
EPA SAMPLE NO												
rtm 9-4-20	31814	8.01	42651	14.32	24409	17.92						
b1 9-4-201	26972	8.01	38009	14.32	22624	17.92						
2.5ug gro	26145	8.01	37984	14.32	22076	17.92						
2.5ug gro	27193	8.01	38618	14.31	21352	17.92						
100ng lcs	24329	8.00	36256	14.31	20786	17.92						
vcb1 9-4-2	25541	8.00	37229	14.31	20649	17.91						
1409136-00	29110	8.00	37280	14.31	21731	17.91						
1409136-00	28214	8.00	35925	14.32	22784 J	17.92						
1409136-00	27197	8.01	37315	14.32	23607 D J	17.92 D J sd J						
b2 9-4-201	31755	8.00	41812	14.31	23518	17.92						
1409046-00	31577	8.00	40413	14.32	24512	17.92						
1409046-00	27045	8.01	38086	14.32	24324	17.92						
1409046-00	30484	8.01	39136	14.31	24091	17.92						
1409046-00	30603	8.01	38230	14.32	25269	17.93						
1409046-00	30580	8.01	41081	14.32	26230	17.92						
1409046-00	31677	8.01	39938	14.32	26100	17.93						

11-9.5.14

VB 9/8/14

Internal Standard And RT Summary

9/5/2014 8:35

Analyst: djf

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408f15-00	30404	8.01	41961	14.32	22213	17.92						
1408f15-00	27804	8.01	38923	14.32	21798	17.92						
1408f15-00	26678	8.01	38147	14.32	21383	17.92						
1408f15-00	27359	8.01	38720	14.32	22045	17.92						
1408f15-00	26024	8.01	37185	14.32	21387	17.92						
1408f15-00	26489	8.00	37768	14.31	22149	17.92						
1408f15-00	26931	8.00	37497	14.31	21616	17.92						
lcs-15046	28947	8.00	38826	14.31	24345	17.91						
lcsd-15046	29653	8.00	38706	14.31	24417	17.91						
mb-15046 9	29181	8.00	37764	14.31	25603	17.92						
1408f17-00	28706	8.00	40706	14.31	22573	17.91						
1408f17-00	26774	8.00	37884	14.31	21968	17.91						
lcs-15069	25774	7.99	38576	14.31	20517	17.91						
tt 9-4-201	26204	8.00	37673	14.31	20934	17.91						
b3 9-4-201	23679	8.00	35162	14.31	19069	17.92						
100ng ccv	24151	8.00	35511	14.31	20166	17.91						
vcb2 9-4-2	24677	8.00	35926	14.31	19677	17.91						
mb-15069 9	22865	8.00	35087	14.31	19919	17.91						
1408f14-00	23561	8.00	33983	14.31	18784	17.91						
1408f14-00	25275	8.00	35270	14.31	18816	17.91						
1408f14-00	23337	8.00	35780	14.31	18980	17.91						
1408f14-00	23984	8.00	36212	14.31	19613	17.91						
lcs-15063	26854	7.99	36538	14.31	22107	17.92						
mb-15063 9	28812	7.99	36045	14.31	23079	17.91						
1408f23-00	27915	7.99	37009	14.31	23259	17.91						
1408f23-00	27069	7.99	38287	14.31	24287	17.91						
1408f23-00	27690	7.99	38537	14.31	23669	17.91						
1409061-00	26443	7.99	36758	14.31	23260	17.91						
1409061-00	29059	7.99	37041	14.31	23123	17.91						
1409061-00	30590	7.99	38933	14.31	24970	17.91						
1409062-00	26344	8.00	37181	14.31	20872	17.91						
1409062-00	25277	7.99	35483	14.31	20303	17.91						
1409062-00	27364	7.99	36162	14.31	22622	17.91						
-3 x10 9-5	28392	8.00	41023	14.31	0 D	17.91 D	-WL					

9/5/2014 8:35

Analyst: djf

M 9-5-14

✓WB 9/8/14

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
-2 x10 9-5	29224	8.00	40297	14.31	23099 D	17.91 D						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

9-5-14

9/8/14

Internal Standard And RT Summary

9/5/2014 8:35
Analyst: djf

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/4/2014 Time: 8:50

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090414v\gro\2.5ug gro ccv 9-4-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2760.019	0.100	2.50	2.58	-3.1	20.0	PASS	PASS
BFB	1.039	0.100	50.00	49.90	0.2	30.0	PASS	PASS

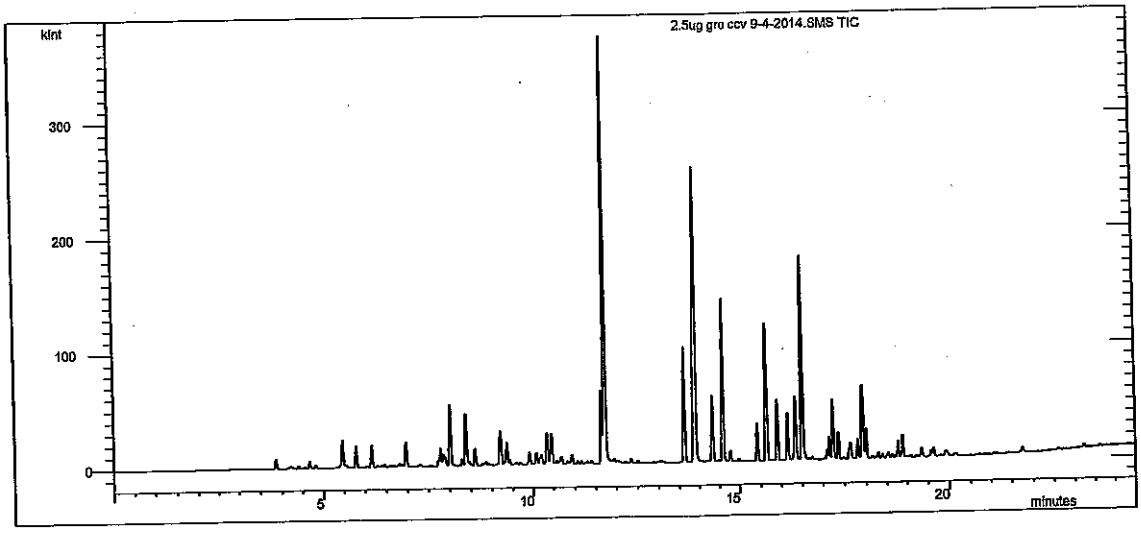
9-5-14

✓ JB 9/8/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/4/2014 8:50:17 AM
Calculation Date:	9/4/2014 9:21:46 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.316	1195	Identified	37331	50.000
GRO	11.000	903	Identified	5.152E6	2.576
BFB	16.347	1376	Identified	38780	49.901

```
**********************************************************
Revision Log
**********************************************************

9/4/2014 9:14 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/4/2014 9:21 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/4/2014 Time: 9:46

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv 9-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.694	0.100	50.00	62.24	-24.5	30.0	PASS	PASS
Chloromethane	0.330	0.100	50.00	36.20	27.6	30.0	PASS	PASS
Vinyl chloride	1.125	0.100	50.00	42.43	15.1	20.0	PASS	PASS
Chloroethane	0.174	0.100	50.00	40.28	19.4	30.0	PASS	PASS
Bromomethane	1.005	0.100	50.00	60.09	-20.2	30.0	PASS	PASS
Trichlorofluoromethane	0.899	0.100	50.00	53.92	-7.8	30.0	PASS	PASS
1,1-Dichloroethene	1.311	0.100	50.00	55.12	-10.2	20.0	PASS	PASS
Acetone	0.392	0.100	100.00	78.92	21.1	40.0	PASS	PASS
Carbon disulfide	1.079	0.100	100.00	114.41	-14.4	40.0	PASS	PASS
Iodomethane	0.119	0.100	100.00	41.30	58.7	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.296	0.100	100.00	103.05	-3.1	30.0	PASS	PASS
Isopropyl ether	1.506	0.100	100.00	112.69	-12.7	40.0	PASS	PASS
tert-Butyl alcohol	0.193	0.100	1000.00	734.64	26.5	40.0	PASS	PASS
trans-1,2-DCE	1.477	0.100	50.00	53.72	-7.4	30.0	PASS	PASS
tert-Butyl ethyl ether	3.005	0.100	100.00	114.36	-14.4	40.0	PASS	PASS
1,1-Dichloroethane	1.260	0.100	50.00	44.63	10.7	30.0	PASS	PASS
Methylene Chloride	1.541	0.100	50.00	53.00	-6.0	30.0	PASS	PASS
Vinyl Acetate	1.604	0.100	100.00	91.75	8.2	40.0	PASS	PASS
2,2-Dichloropropane	0.881	0.100	50.00	54.72	-9.4	30.0	PASS	PASS
2-Butanone	0.423	0.100	100.00	85.13	14.9	40.0	PASS	PASS
1,1,1-Trichloroethane	1.515	0.100	50.00	51.20	-2.4	30.0	PASS	PASS
tert-Amyl methyl ether	1.404	0.100	100.00	102.23	-2.2	40.0	PASS	PASS
1,1-Dichloropropene	0.693	0.100	50.00	51.94	-3.9	30.0	PASS	PASS
Carbon Tetrachloride	3.252	0.100	50.00	52.75	-5.5	30.0	PASS	PASS
cis-1,2-DCE	2.050	0.100	50.00	53.43	-6.9	30.0	PASS	PASS
Benzene	1.964	0.100	50.00	54.36	-8.7	30.0	PASS	PASS
Chloroform	1.478	0.100	50.00	59.97	-19.9	20.0	PASS	PASS
Bromochloromethane	0.537	0.100	50.00	61.64	-23.3	30.0	PASS	PASS
Trichloroethene (TCE)	1.459	0.100	50.00	60.48	-21.0	30.0	PASS	PASS
Dibromofluoromethane	1.594	0.100	50.00	46.31	7.4	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.393	0.100	50.00	48.10	3.8	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.735	0.100	50.00	53.32	-6.6	30.0	PASS	PASS
1,2-Dichloropropane	1.926	0.100	50.00	53.19	-6.4	20.0	PASS	PASS
4-Methyl-2-pentanone	2.003	0.100	100.00	107.85	-7.9	40.0	PASS	PASS
Toluene-d8	1.828	0.100	50.00	46.70	6.6	30.0	PASS	PASS

NR

9-5-14

✓ NB 9/8/14

Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.883	0.100	50.00	54.60	-9.2	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.949	0.100	100.00	94.81	5.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.393	0.100	50.00	55.16	-10.3	30.0	PASS	PASS
cis-1,3-dichloropropene	2.109	0.100	50.00	50.95	-1.9	30.0	PASS	PASS
2-Hexanone	0.980	0.100	100.00	108.10	-8.1	40.0	PASS	PASS
Bromodichloromethane	2.705	0.100	50.00	54.01	-8.0	30.0	PASS	PASS
Dibromomethane	1.201	0.100	50.00	51.69	-3.4	30.0	PASS	PASS
1,3-Dichloropropane	1.474	0.100	50.00	50.43	-0.9	30.0	PASS	PASS
trans-1,3-dichloropropene	0.783	0.100	50.00	50.21	-0.4	30.0	PASS	PASS
Ethylbenzene	3.135	0.100	50.00	53.37	-6.7	20.0	PASS	PASS
mp-Xylenes	2.852	0.100	100.00	105.93	-5.9	30.0	PASS	PASS
1,1,2-Trichloroethane	1.739	0.100	50.00	50.11	-0.2	30.0	PASS	PASS
Chlorobenzene	1.317	0.300	50.00	50.85	-1.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.480	0.100	50.00	52.37	-4.7	30.0	PASS	PASS
o-Xylene	2.846	0.100	50.00	53.46	-6.9	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.326	0.100	50.00	50.66	-1.3	30.0	PASS	PASS
Dibromochloromethane	1.385	0.100	50.00	53.36	-6.7	30.0	PASS	PASS
Isopropylbenzene	2.656	0.100	50.00	50.97	-1.9	30.0	PASS	PASS
Styrene	1.269	0.100	50.00	50.27	-0.5	30.0	PASS	PASS
n-Propylbenzene	6.489	0.100	50.00	52.95	-5.9	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.570	0.100	50.00	51.45	-2.9	30.0	PASS	PASS
tert-Butylbenzene	4.828	0.100	50.00	49.20	1.6	30.0	PASS	PASS
2-Chlorotoluene	1.470	0.100	50.00	46.97	6.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.829	0.100	50.00	44.87	10.3	30.0	PASS	PASS
sec-Butylbenzene	2.838	0.100	50.00	41.78	16.4	30.0	PASS	PASS
4-Chlorotoluene	1.537	0.100	50.00	47.42	5.2	30.0	PASS	PASS
Bromobenzene	1.464	0.100	50.00	53.98	-8.0	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.630	0.100	50.00	49.40	1.2	30.0	PASS	PASS
4-Isopropyltoluene	4.753	0.100	50.00	48.64	2.7	30.0	PASS	PASS
Bromoform	1.607	0.100	50.00	46.97	6.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.206	0.100	50.00	44.70	10.6	30.0	PASS	PASS
n-Butylbenzene	4.745	0.100	50.00	51.94	-3.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	2.009	0.300	50.00	55.06	-10.1	30.0	PASS	PASS
1,3-Dichlorobenzene	2.120	0.100	50.00	50.66	-1.3	30.0	PASS	PASS
1,4-Dichlorobenzene	1.993	0.100	50.00	49.28	1.4	30.0	PASS	PASS
1,2-Dichlorobenzene	1.990	0.100	50.00	49.00	2.0	30.0	PASS	PASS
Hexachlorobutadiene	4.206	0.100	50.00	43.30	13.4	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.794	0.100	50.00	50.99	-2.0	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.511	0.100	50.00	48.08	3.8	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.556	0.100	50.00	48.99	2.0	30.0	PASS	PASS
Naphthalene	2.879	0.100	50.00	47.04	5.9	30.0	PASS	PASS
2-Methylnaphthalene	2.283	0.100	50.00	50.83	-1.7	40.0	PASS	PASS
1-Methylnaphthalene	2.194	0.100	50.00	50.40	-0.8	40.0	PASS	PASS

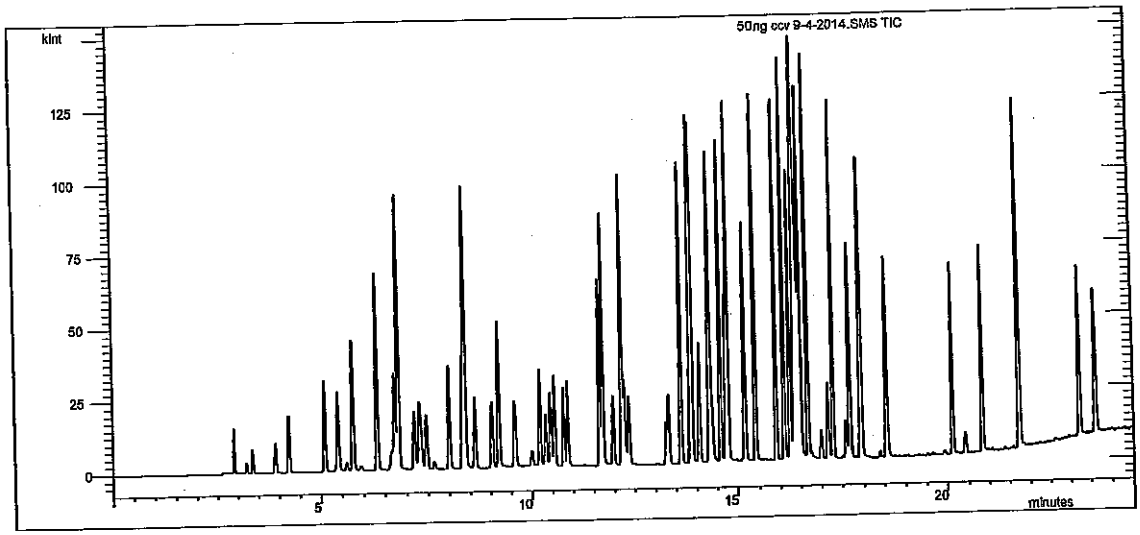
9-5-14

✓ WB 9/8/14

Analyst: djf

8260B/624 Report

Sample Name:	50ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-54-0475	**Acquisition Date:**	9/4/2014 9:46:23 AM
Calculation Date:	9/4/2014 10:10:54 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.004	637	Identified	26171	50.000
Benzene-d5-, chloro-	14.313	1196	Identified	37895	50.000
1,4-Dichlorobenzene-d4	17.915	1515	Identified	21361	50.000
Dichlorodifluoromethane	2.910	185	Identified	44331	62.241
Chloromethane	3.211	211	Identified	8633	36.204
Vinyl chloride	3.359	225	Identified	29448	42.435
Chloroethane	3.898	273	Identified	4547	40.278
Bromomethane	3.913	274	Identified	26294	60.090
Trichlorofluoromethane	4.236	303	Identified	23527	53.923
1,1-Dichloroethene	5.096	379	Identified	34298	55.121
Acetone	5.379	405	Identified	20494	78.916
Carbon disulfide	5.411	407	Identified	56484	114.410
Iodomethane	5.614	425	Identified	6238	41.298
Methyl tert-butyl ether (MTBE)	5.765	438	Identified	67844	103.054
Isopropyl ether	6.322	487	Identified	78821	112.691
tert-Butyl alcohol	6.649	516	Identified	100884	734.638
trans-1,2-DCE	6.725	523	Identified	38647	53.721
tert-Butyl ethyl ether	6.809	531	Identified	157302	114.359
1,1-Dichloroethane	7.185	564	Identified	32980	44.628
Methylene Chloride	7.305	575	Identified	40325	52.996
Vinyl Acetate	7.360	580	Identified	83941	91.753
2,2-Dichloropropane	7.465	589	Identified	23067	54.719
2-Butanone	7.646	605	Identified	22130	85.127
1,1,1-Trichloroethane	8.319	665	Identified	39638	51.199

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.376	670	Identified	73499	102.230
1,1-Dichloropropene	8.392	671	Identified	18129	51.944
Carbon Tetrachloride	8.623	692	Identified	85098	52.751
cis-1,2-DCE	9.040	729	Identified	53638	53.432
Benzene	9.199	743	Identified	51401	54.359
Chloroform	9.596	777	Identified	38674	59.968
Bromochloromethane	10.010	814	Identified	14061	61.642
Trichloroethene (TCE)	10.198	831	Identified	38179	60.479
Dibromofluoromethane	10.338	843	Identified	41715	46.305
1,2-Dichloroethane-d4	10.452	854	Identified	114958	48.098
1,2-Dichloroethane (EDC)	10.545	862	Identified	45401	53.320
1,2-Dichloropropane	10.775	882	Identified	50404	53.192
4-Methyl-2-pentanone	10.872	891	Identified	104864	107.851
Toluene-d8	11.640	959	Identified	69253	46.696
Toluene	11.720	966	Identified	109269	54.604
2-Chloroethyl vinyl ether	11.975	989	Identified	71909	94.808
Tetrachloroethene (PCE)	12.182	1007	Identified	52805	55.162
cis-1,3-dichloropropene	12.183	1007	Identified	79926	50.952
2-Hexanone	12.190	1008	Identified	74270	108.097
Bromodichloromethane	12.254	1013	Identified	102501	54.007
Dibromomethane	12.357	1023	Identified	45522	51.687
1,3-Dichloropropane	13.259	1102	Identified	55842	50.428
trans-1,3-dichloropropene	13.319	1108	Identified	29665	50.213
Ethylbenzene	13.617	1134	Identified	118812	53.373
mp-Xylenes	13.866	1156	Identified	216131	105.931
1,1,2-Trichloroethane	14.070	1174	Identified	65908	50.113
Chlorobenzene	14.335	1198	Identified	49898	50.855
1,2-Dibromoethane (EDB)	14.391	1203	Identified	56100	52.370
o-Xylene	14.585	1220	Identified	107847	53.463
1,1,1,2-Tetrachloroethane	14.713	1231	Identified	88128	50.665
Dibromochloromethane	14.745	1234	Identified	52493	53.357
Isopropylbenzene	14.775	1237	Identified	100637	50.965
Styrene	15.169	1272	Identified	48092	50.267
n-Propylbenzene	15.411	1293	Identified	138606	52.950
1,3,5-Trimethylbenzene	15.902	1337	Identified	97628	51.451
tert-Butylbenzene	16.098	1354	Identified	103129	49.198
2-Chlorotoluene	16.244	1367	Identified	31398	46.973
4-Bromofluorobenzene	16.341	1376	Identified	39065	44.867
sec-Butylbenzene	16.373	1378	Identified	60630	41.776
4-Chlorotoluene	16.408	1382	Identified	32826	47.420
Bromobenzene	16.449	1385	Identified	31271	53.981
1,2,4-Trimethylbenzene	16.500	1390	Identified	98899	49.395
4-Isopropyltoluene	16.661	1404	Identified	101523	48.641
Bromoform	16.990	1433	Identified	34338	46.967
1,2,3-Trichloropropane	17.161	1448	Identified	25766	44.702
n-Butylbenzene	17.289	1460	Identified	101361	51.935
1,1,2,2-Tetrachloroethane	17.583	1486	Identified	42919	55.061
1,3-Dichlorobenzene	17.668	1493	Identified	45278	50.665
1,4-Dichlorobenzene	17.940	1517	Identified	42567	49.281
1,2-Dichlorobenzene	18.547	1571	Identified	42510	48.999

Operator: Danny Ferraro

Inj. Notes: v-54-0475

50ng ccv 9-4-2014.SMS
9/4/2014 10:11

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.131	1711	Identified	89854	43.298
1,2-Dibromo-3-chloropropane	20.420	1737	Identified	16955	50.992
1,2,4-Trichlorobenzene	20.829	1773	Identified	32269	48.077
1,2,3-Trichlorobenzene	21.732	1854	Identified	33247	48.989
Naphthalene	21.740	1855	Identified	61501	47.036
2-Methylnaphthalene	23.227	1990	Identified	48767	50.825
1-Methylnaphthalene	23.611	2024	Identified	46858	50.397

****
Revision Log
****

9/4/2014 10:10 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

.an Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

)leList: C:\VarianWS\070614v.smp

ited: Sun Jul 06 15:00:06 2014
.fied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes	
1	b1	below	
	Notes All injections contain V-52-0465		
2	b2	none	
3	b3	none	tune@4:10
4	25ng annex crv	below	
	Notes V-11-8034		
5	50ng annex crv	below	
	Notes V-11-8034		
6	100ng annex crv	below	
	Notes V-11-8034		
7	150ng annex crv	below	
	Notes V-11-8034		
8	227.27ng annex crv	below	
	Notes V-11-8034		
9	500ng annex crv	below	
	Notes V-11-8034		
10	750ng annex crv	below	
	Notes V-11-8034		
11	b4	none	
12	b5	none	
13	227.27ng annex icv	below	
	Notes V-11-8035		@ 8:52
14	b6	none	
15	b7	none	tune@9:40
16	0.25ug gro crv	below	
	Notes V-18-2047		
17	0.5ug gro crv	below	
	Notes V-18-2047		
18	1ug gro crv	below	
	Notes V-18-2047		
19	2.5ug gro crv	below	
	Notes V-18-2047		
20	5ug gro crv	below	
	Notes V-18-2047		
21	10ug gro crv	below	
	Notes V-18-2047		
22	b8	none	
23	20ug gro crv	below	
	Notes V-18-2047		
24	b9	none	
25	40ug gro crv	below	
	Notes V-18-2047		
26	b10	none	
27	b11	none	
28	2.5ug gro icv	below	
	Notes V-18-2036		
29	b12	none	
30	crtm	below	
	Notes V-18-1994		
31	crtm full	below	@5:15
	Notes V-18-1781		
32	b13	none	
33			

Loaded By: M 7-6-14
1st Review By: M 7-7-14
QA'd By: JNB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: [signature] 7-7-14

QA: [signature] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

DB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

JSB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

alibration Curves Report

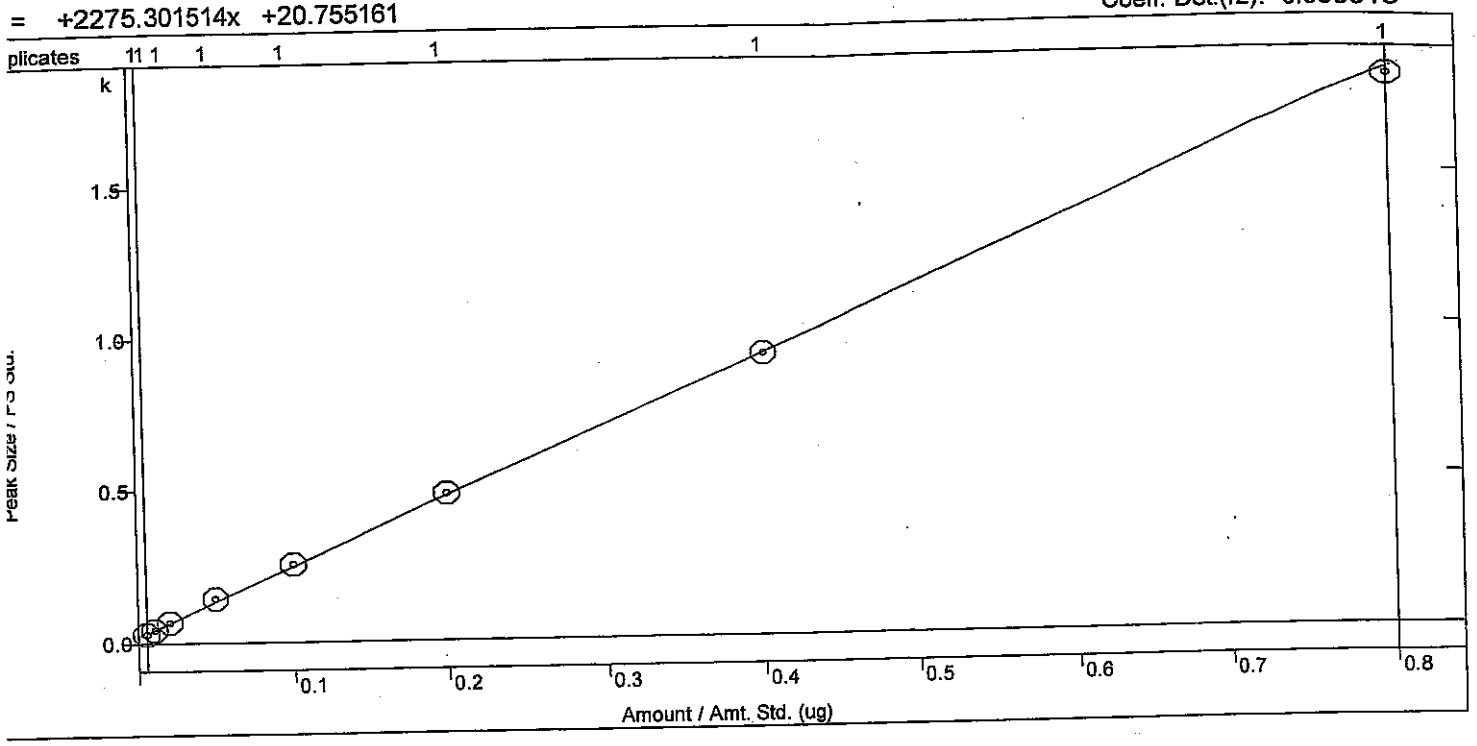
7-1-14

ethod:	c:\varianws\methods\070614v gro.mth		
ecalc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ample List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

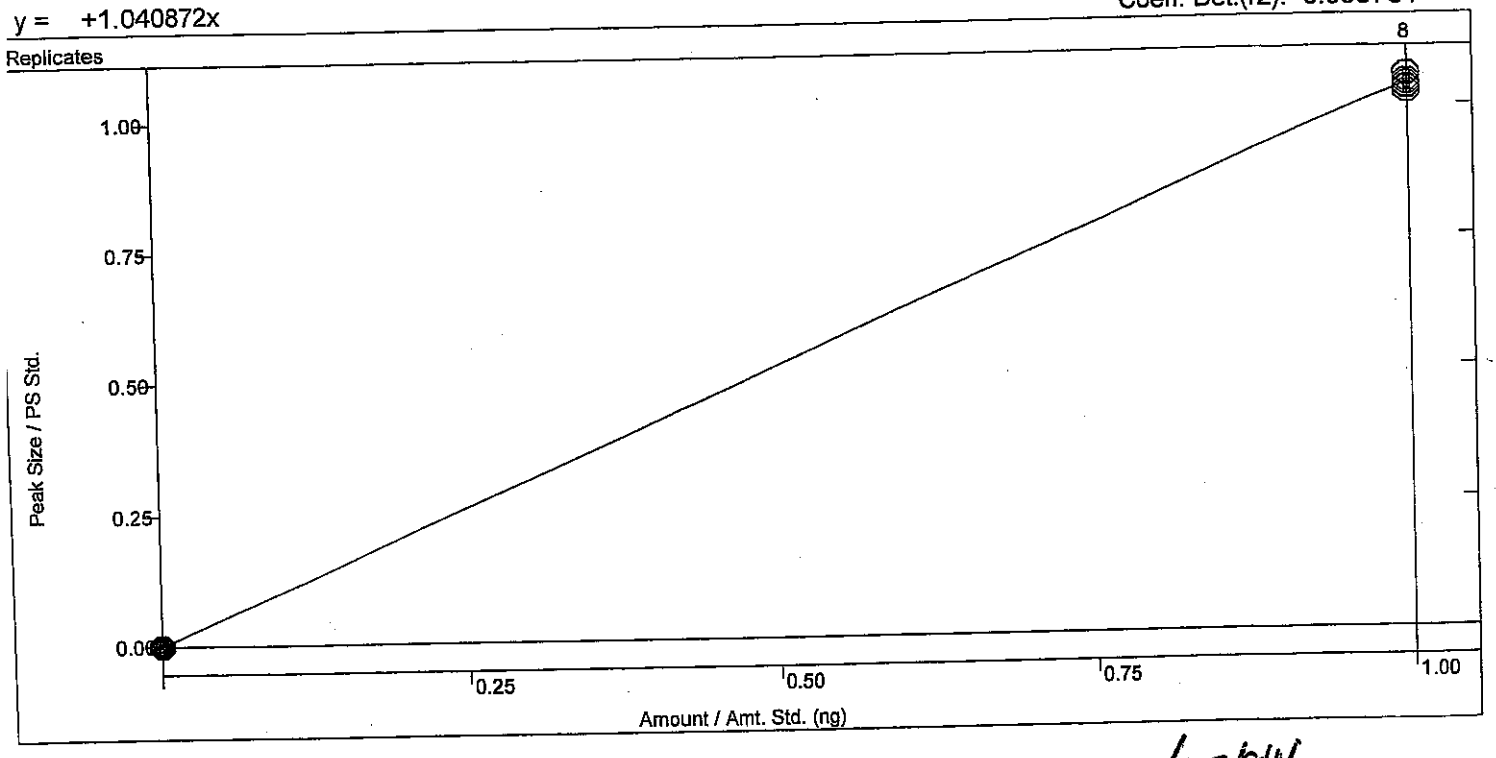
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JNS 7/8/14

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time@7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By: KSH 8/4/14
QA'd By:

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Instrument: Va1 Date: 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ppL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ppL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: [signature] and [signature]

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	UQL: 22.27ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KSH
8/4/14

JH 8.4.14

Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15	100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16	227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17	500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18	b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19	b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20	100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21	b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

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Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 8/1/2014 8/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 22:52 22:52

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

Analyst: KJH

JAF 9.4.14 KSH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

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Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

1 - rr hits on different crv.

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Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

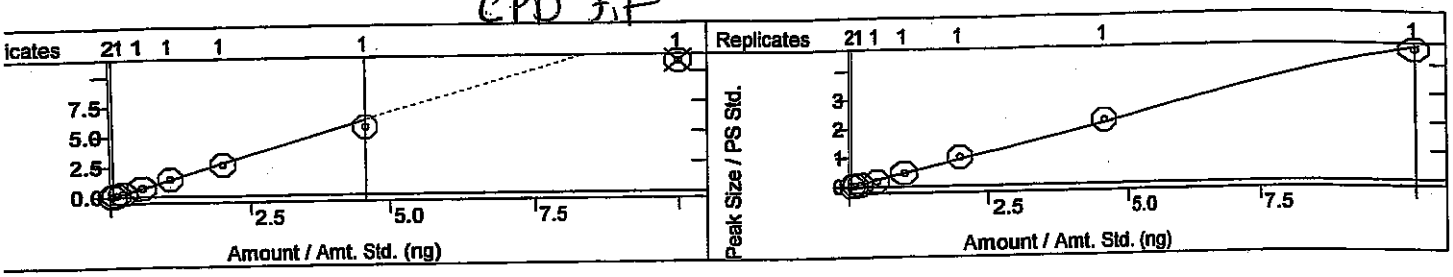
KJH 8/4/14

Analyst: KJH

;alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
juence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

;hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
: +1.3682x -0.0093

CPD Fit

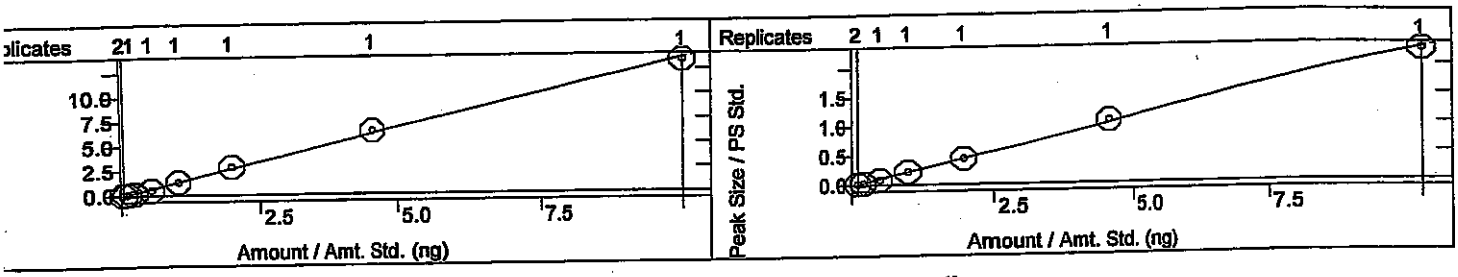


Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

nyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

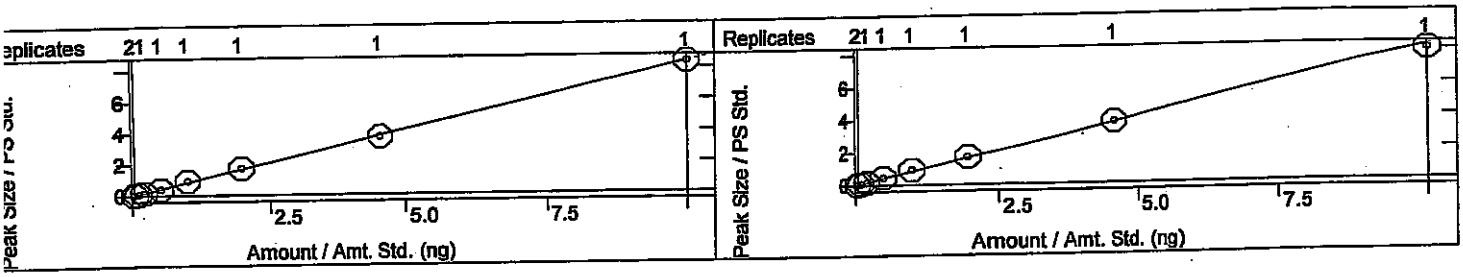
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD Fit



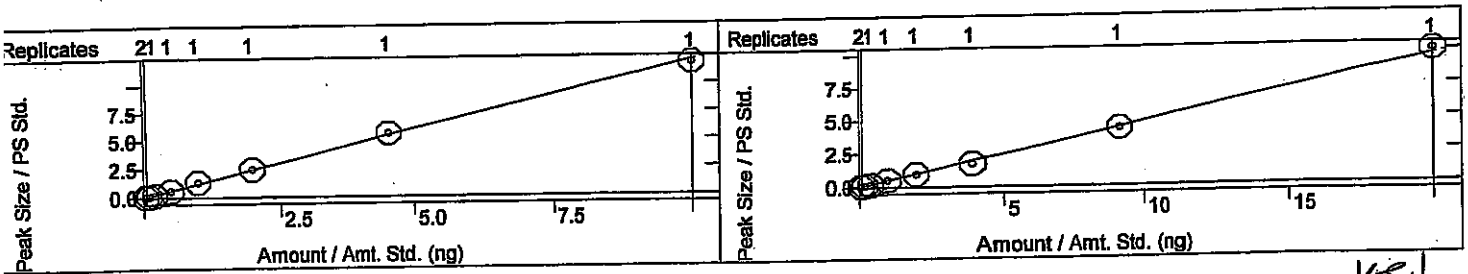
romomethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
= +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



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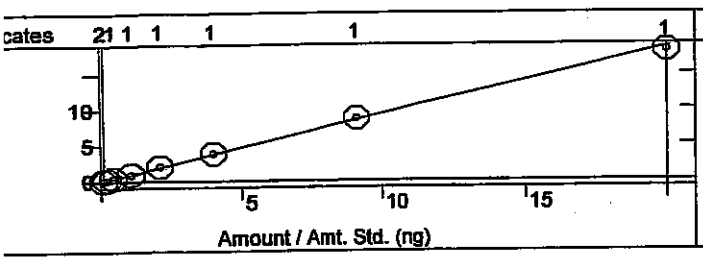
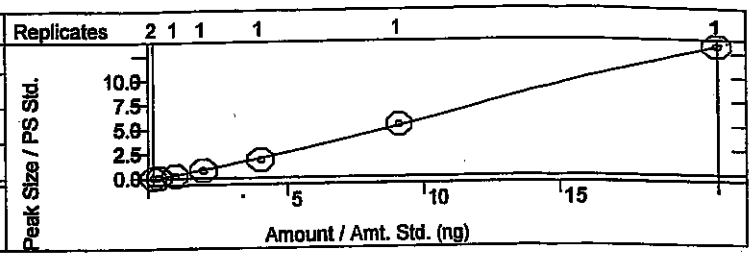
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
sp. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

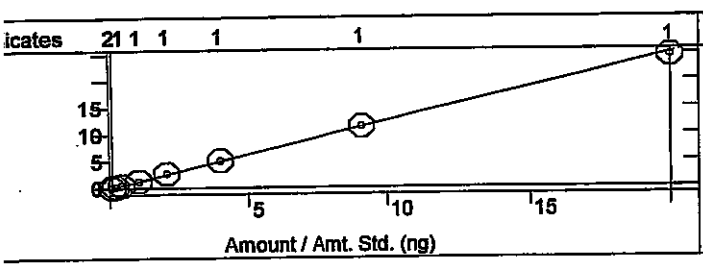


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

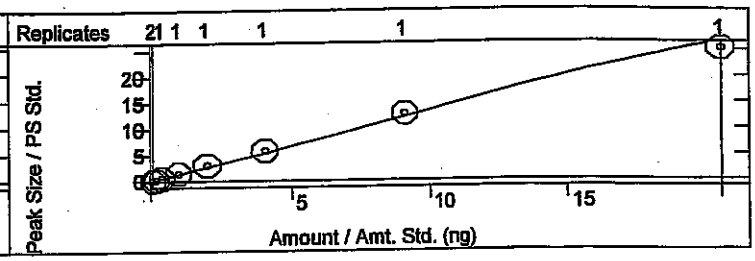
CPD fit



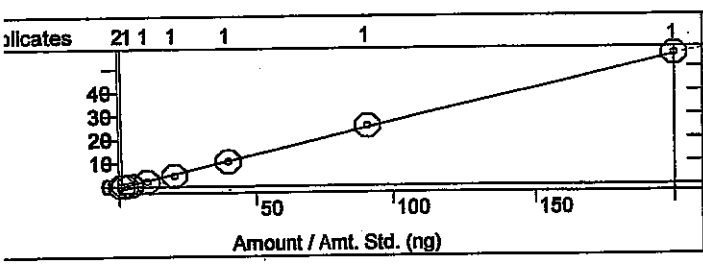
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
: +1.2503x +0.0152



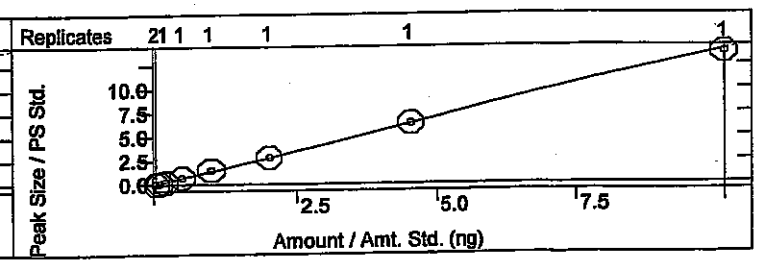
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



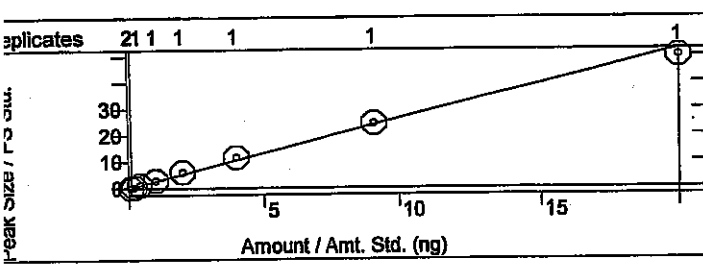
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051



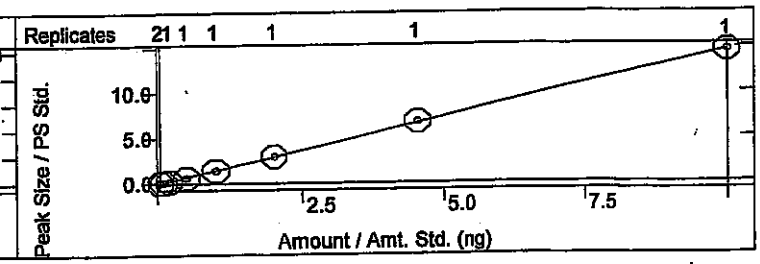
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155



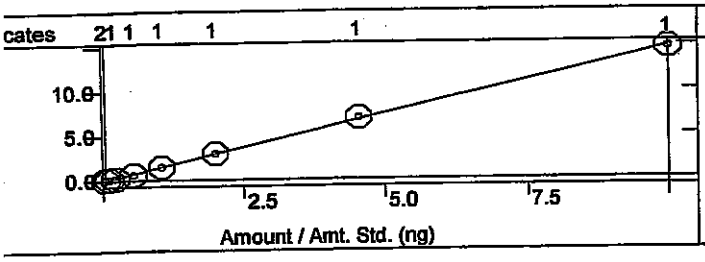
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



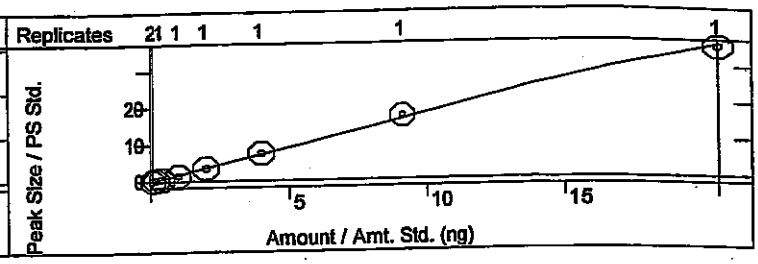
KSH 8/4/14

ıod:	c:\varianws\methods\0601 14v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

:hylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278

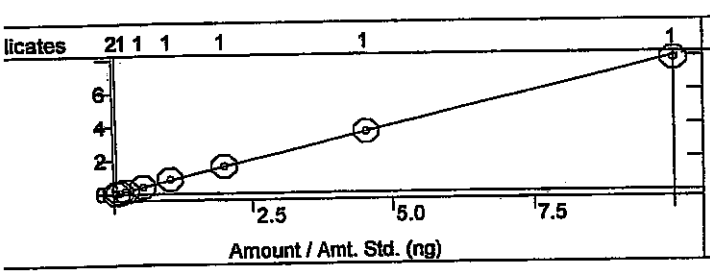


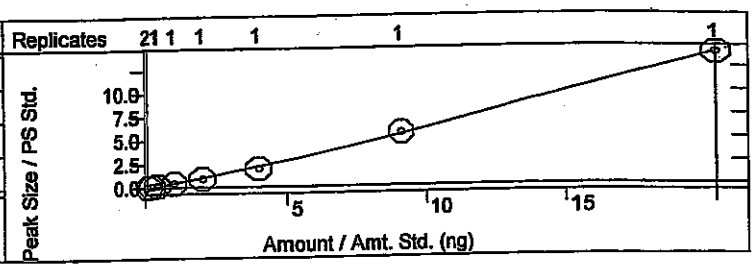
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



-Dichloropropane
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095

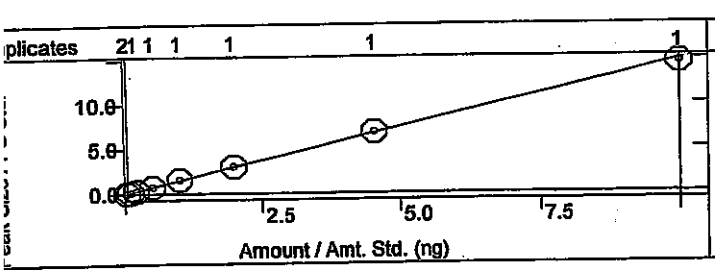
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865

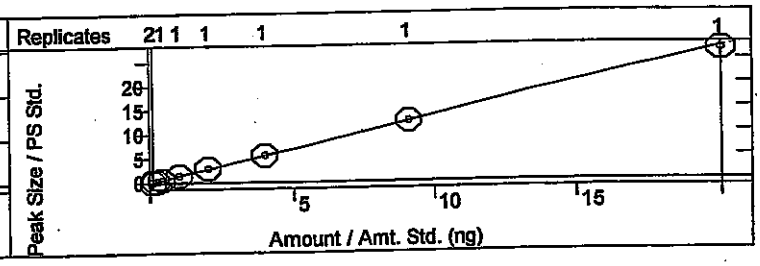




1,1-Trichloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066

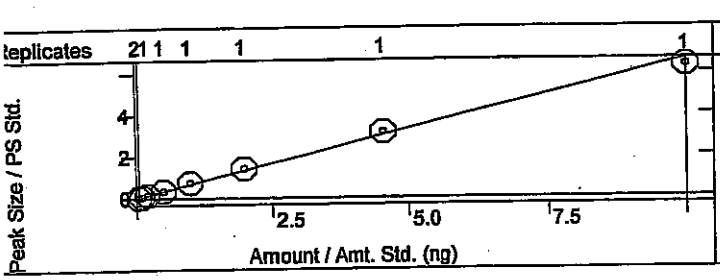
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083

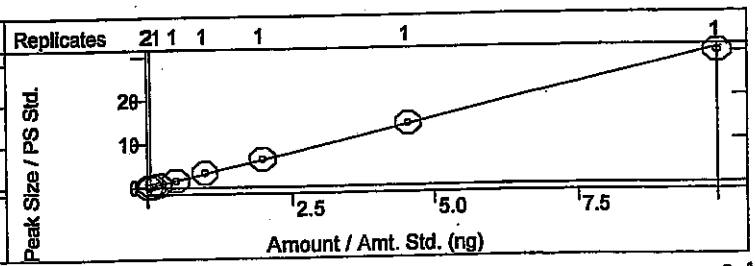




l,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065





KSH 8/4/14

;alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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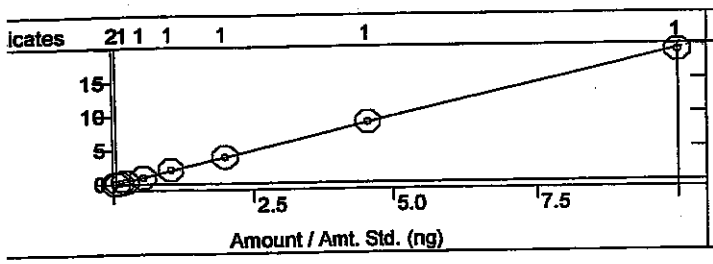
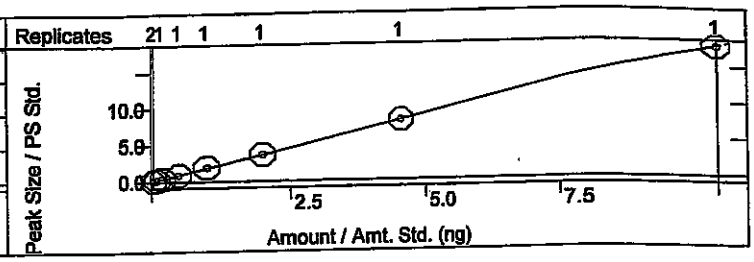
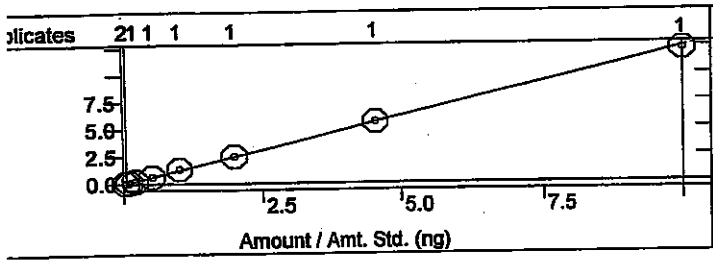
-1,2-DCE
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
: +1.9390x -0.0226



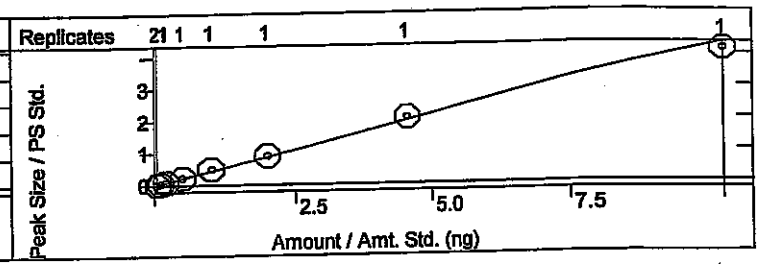
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



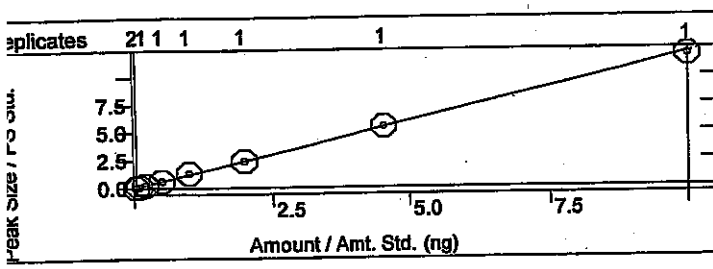
ıloroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
= +1.2389x -0.0082



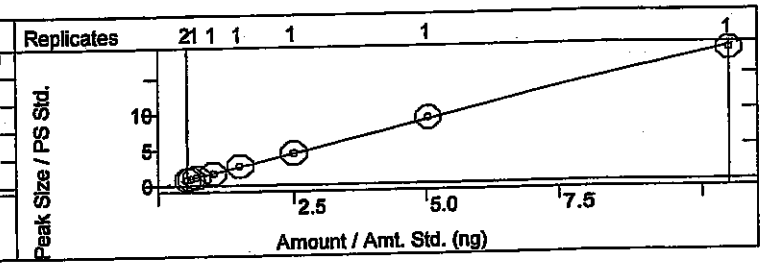
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



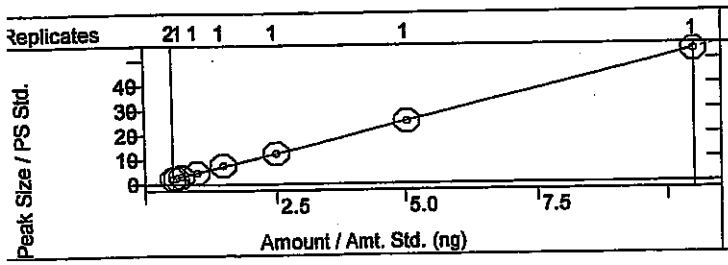
richloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034



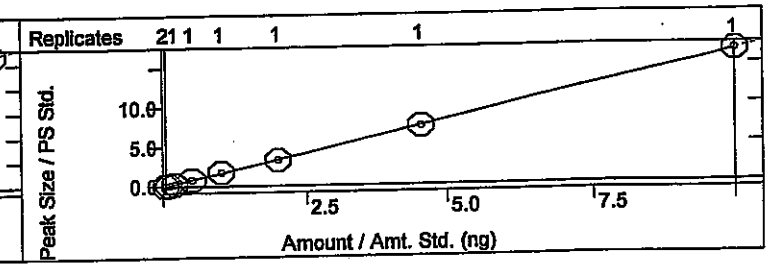
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
juence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

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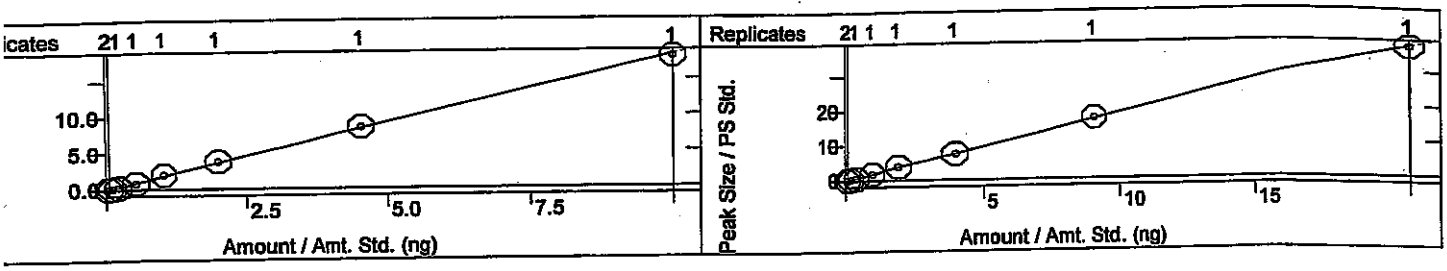
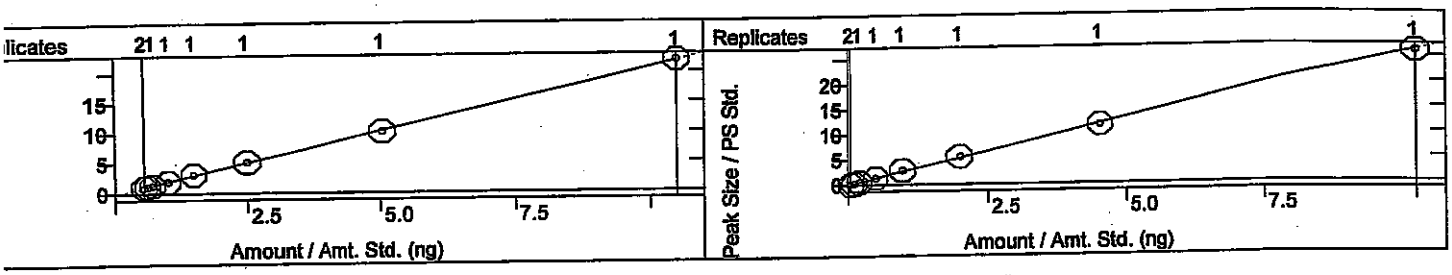
-Dichloropropane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



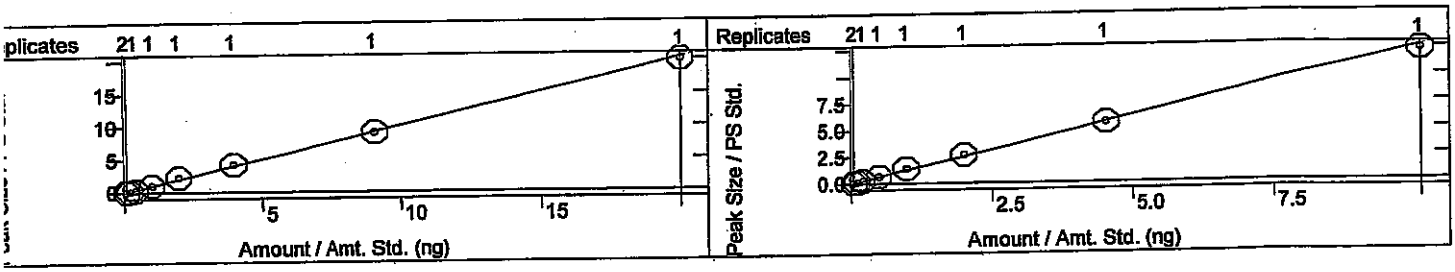
luene-d8
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
= +2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



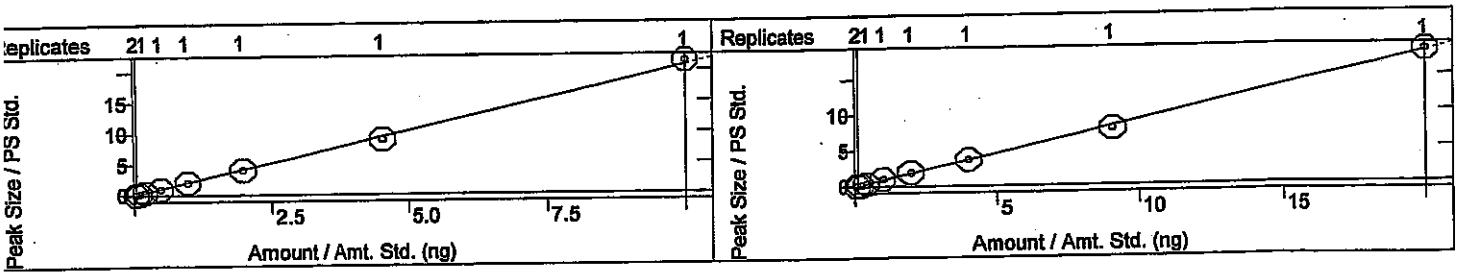
-Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



:is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

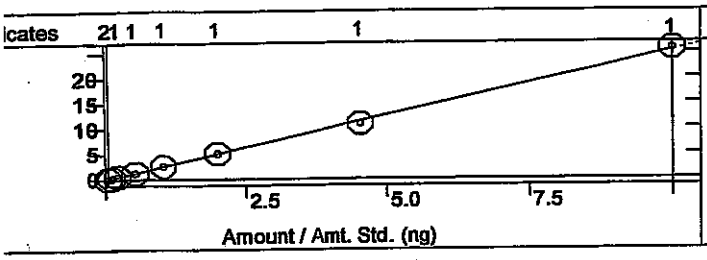
2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



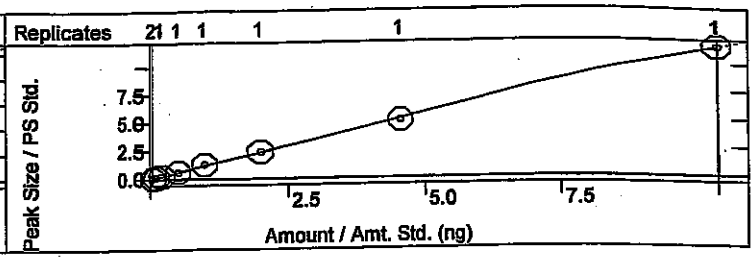
;alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıuence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

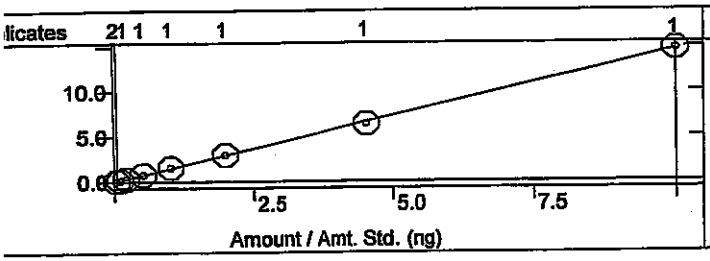
›modichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289



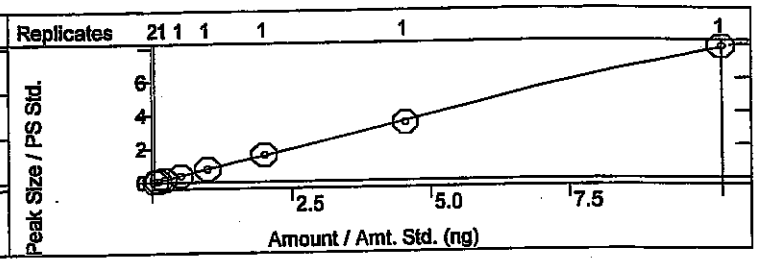
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



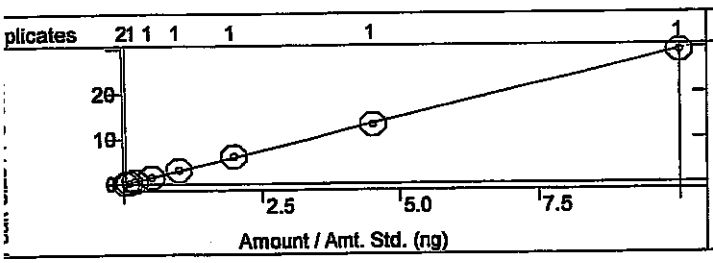
ı-Dichloropropane
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4



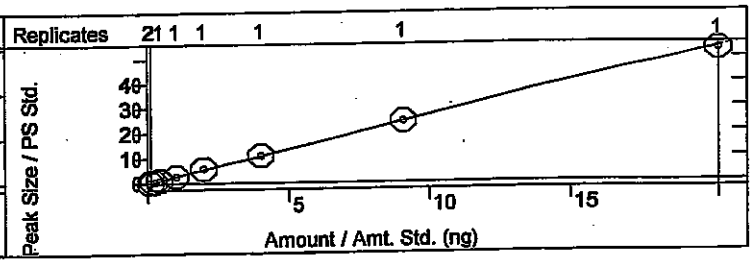
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



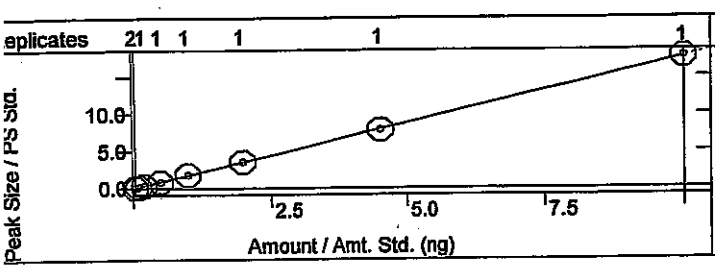
thylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092



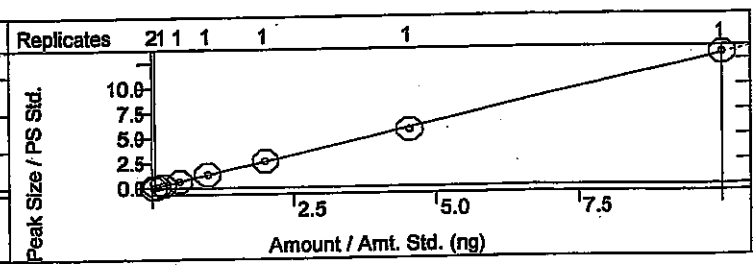
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



l,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
/ = +1.7620x -0.0268



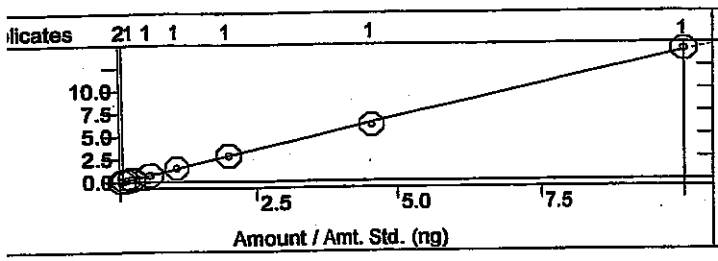
Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



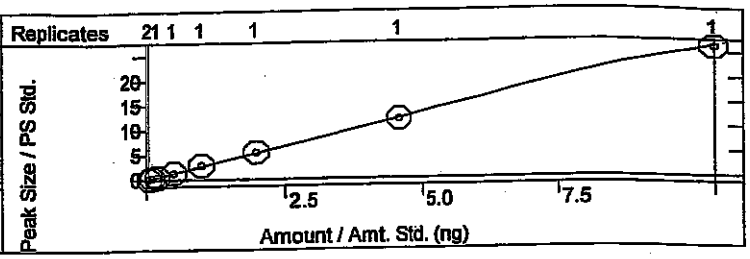
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

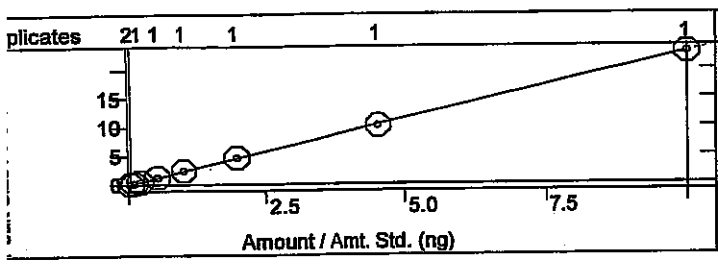
2-Dibromoethane (EDB)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



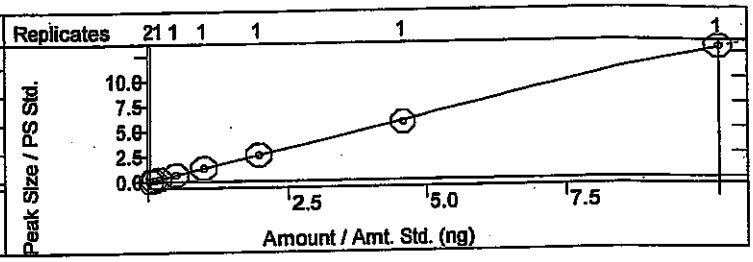
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



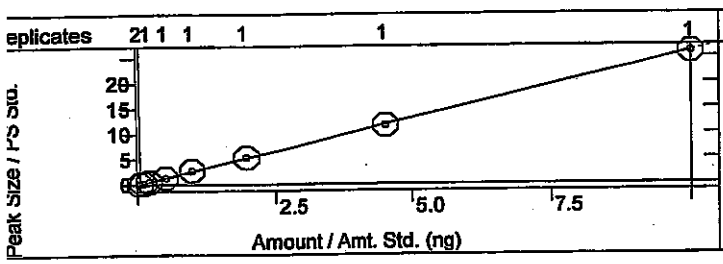
1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016



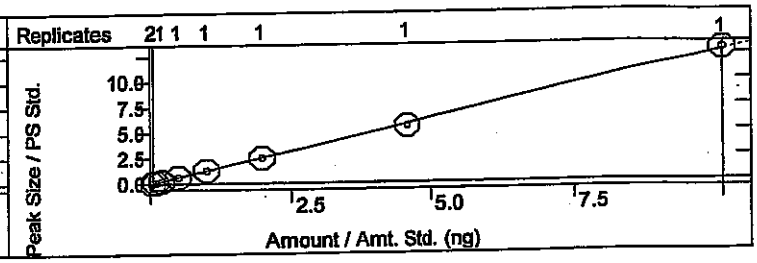
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



sopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
= +2.6088x -0.0035

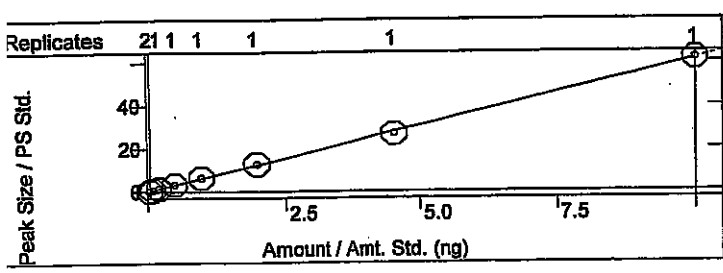


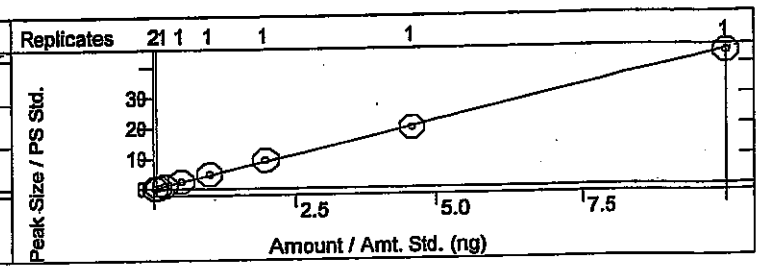
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332





alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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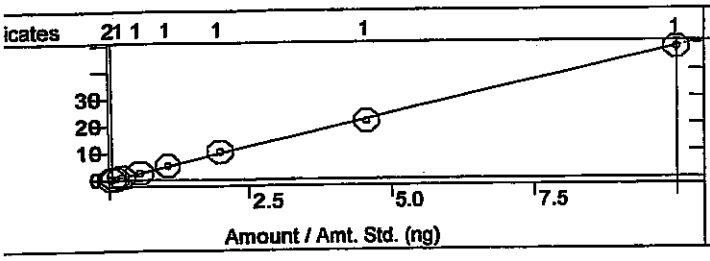
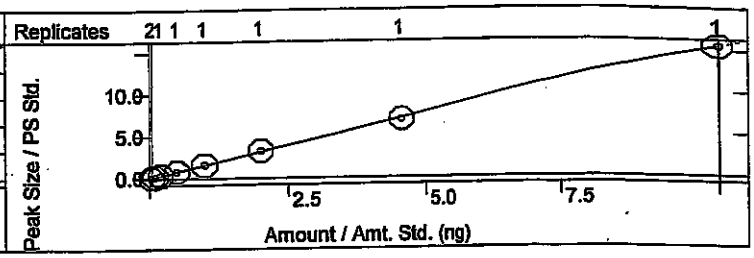
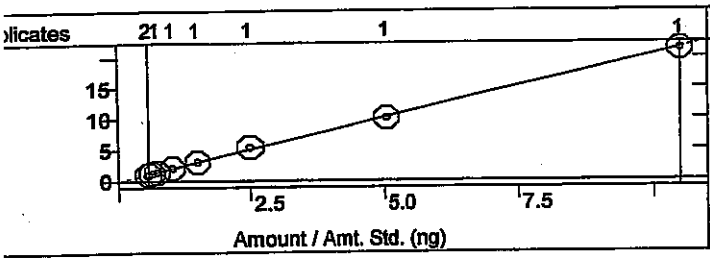
t-Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500



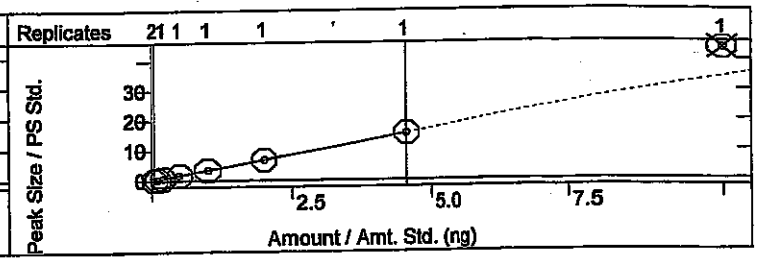
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



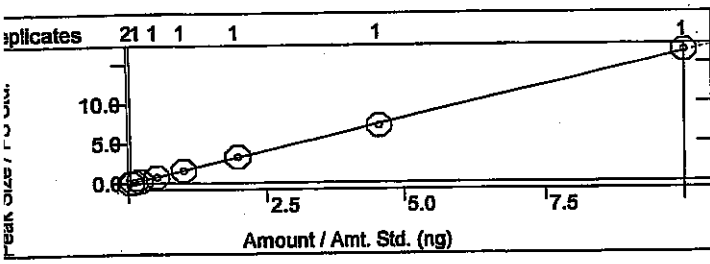
Bromofluorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066



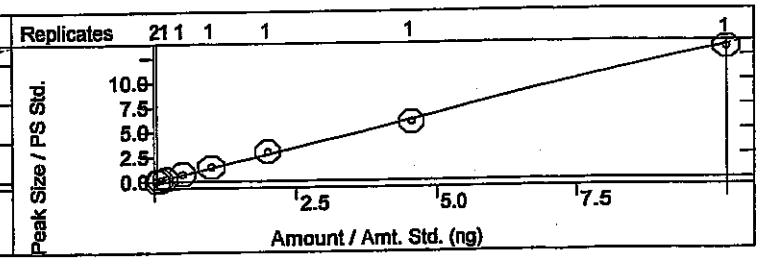
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
cRD fit



-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

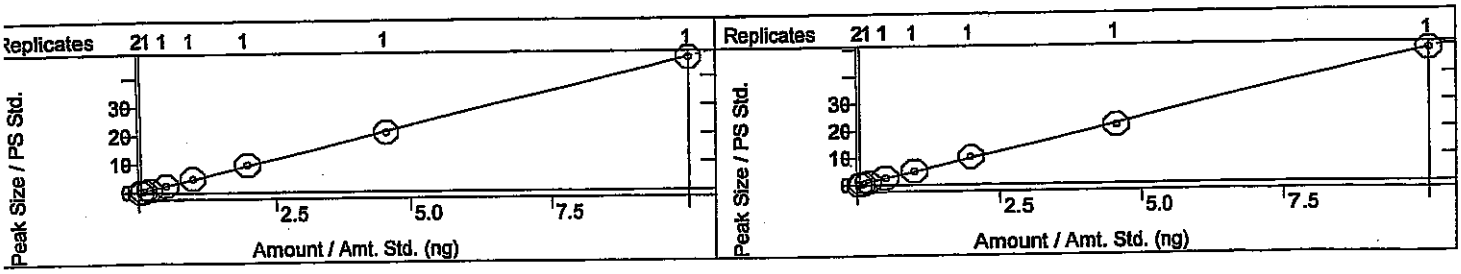


Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

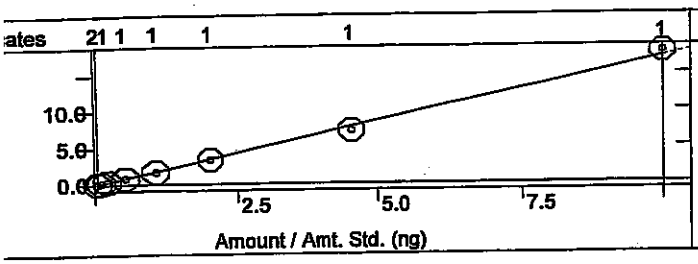
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045



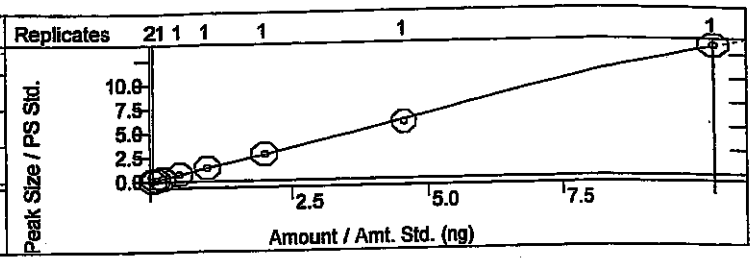
ılc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

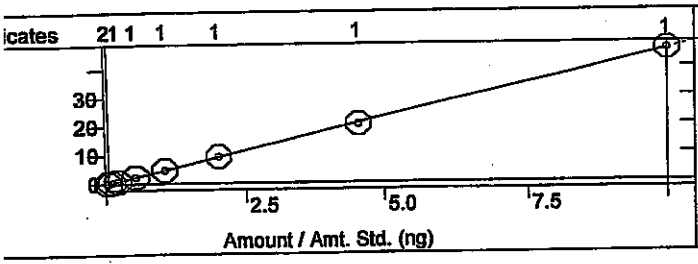
noform
/e Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156



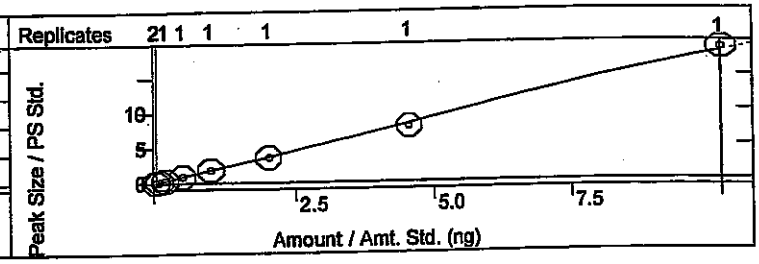
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



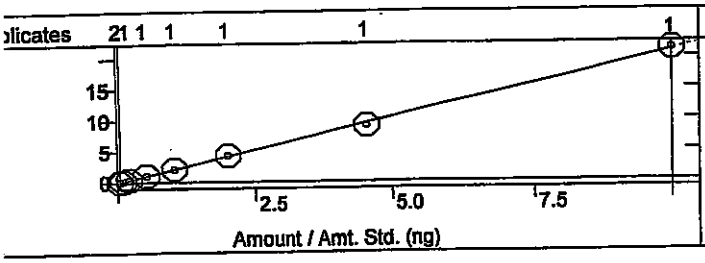
lutylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548



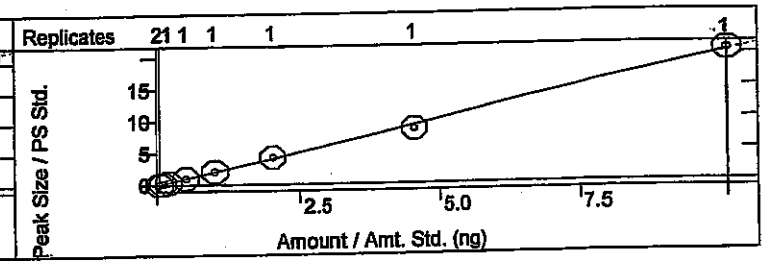
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



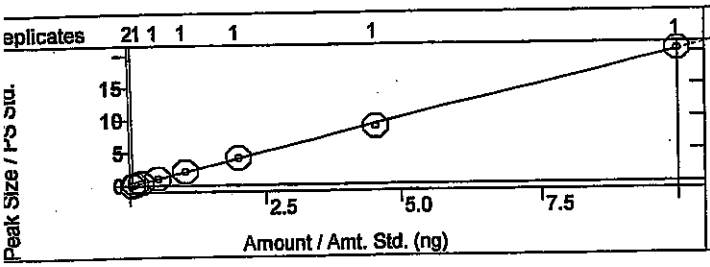
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059



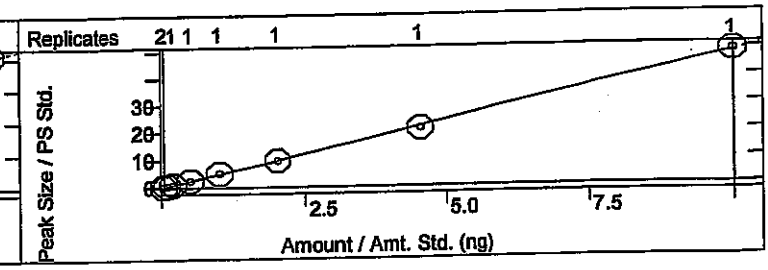
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
= +2.0262x +0.0044



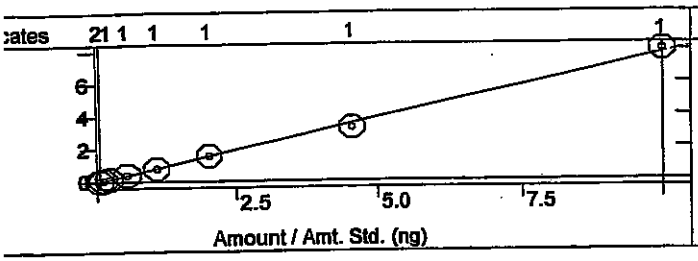
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4



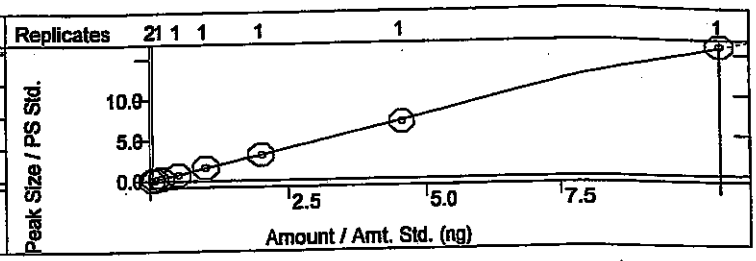
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

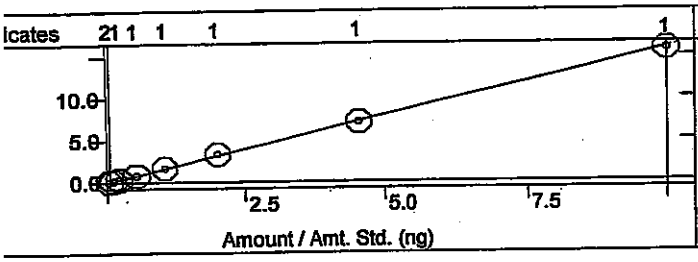
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4



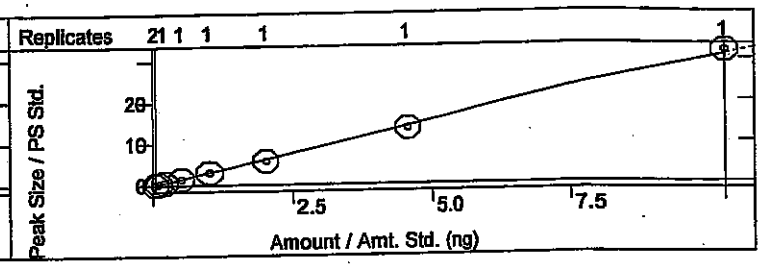
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



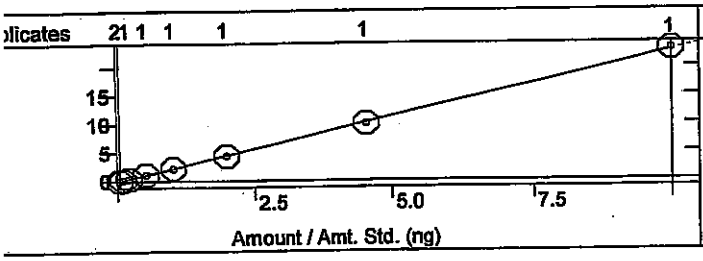
,3-Trichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060



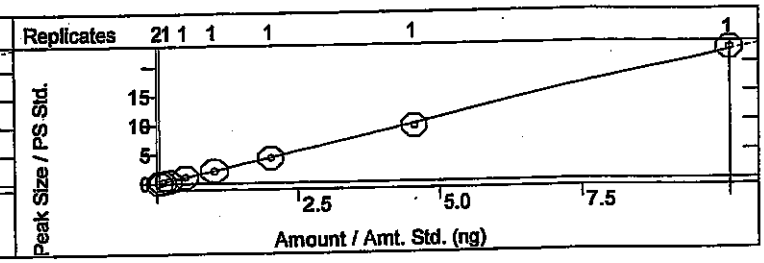
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

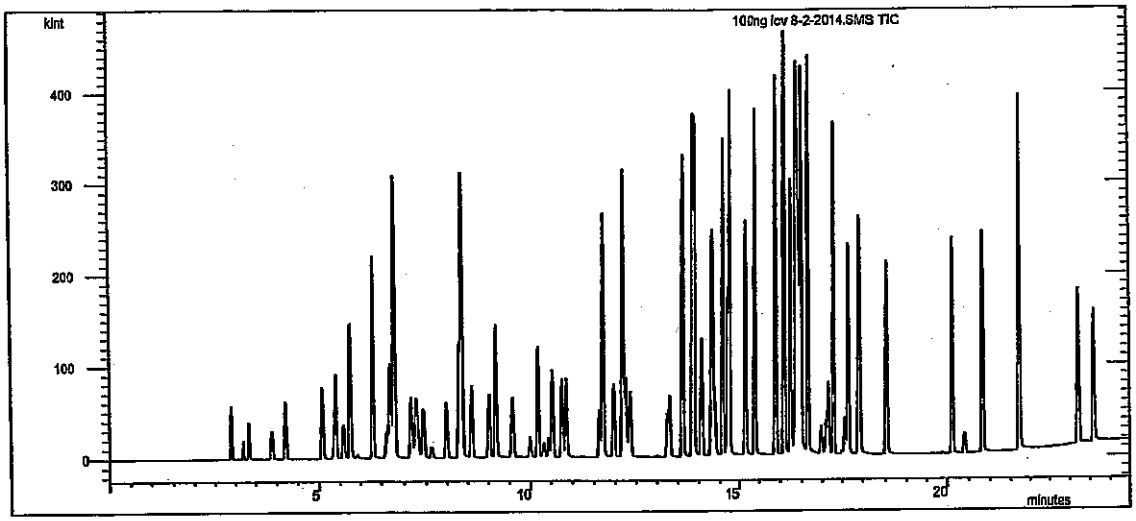


1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

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Revision Log
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8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

J 10-9-14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409136**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-001
Client Sample ID: FFOR-CF-0061
Collection Date: 9/3/2014 12:04:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND J	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Toluene	0.000795 J	0.00130	J	mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Ethylbenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Xylenes, Total	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Methyl tert-butyl ether (MTBE)	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2,4-Trimethylbenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,3,5-Trimethylbenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2-Dichloroethane (EDC)	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2-Dibromoethane (EDB)	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Naphthalene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Acetone	0.0420 J	0.00651		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Bromobenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Bromodichloromethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Bromoform	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Bromomethane	0.000966 J	0.00326	J	mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
2-Butanone	0.00978 J	0.00651		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Carbon tetrachloride	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Chlorobenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Chloroethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Chloroform	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Chloromethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
2-Chlorotoluene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Carbon disulfide	ND	0.00651		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
4-Chlorotoluene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
cis-1,2-DCE	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
cis-1,3-Dichloropropene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2-Dibromo-3-chloropropane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Dibromochloromethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Dibromomethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2-Dichlorobenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,3-Dichlorobenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,4-Dichlorobenzene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
Dichlorodifluoromethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,1-Dichloroethane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,1-Dichloroethene	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,2-Dichloropropane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
1,3-Dichloropropane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM
2,2-Dichloropropane	ND	0.00130		mg/Kg-dry	1	15112	9/4/2014 4:30:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

neric SampleList Printout - 11 Sep 05 07:45:56 2014

mpleList: C:\AgilentWS\090414m.smp

eated: Thu Sep 04 08:23:45 2014
dified: Thu Sep 04 17:56:51 2014

****

Line	Sample Name	Injection Notes	
1	b1	below	
	Notes	All injections contain V-53-0050	
2	b2	none	
3	b3	none	
4	mb-15112	none	time @10:13
5	5ppb 5035 ccv	below	@10:42
	Notes	V-54-0478	
6	lcs-15112	below	
	Notes	V-11-8073	
7	b4	none	
8	1409046-001a	below	hand calc
	Notes	x1 low level soil pb15112	
9	1409046-001ams	below	
	Notes	x1 low level soil pb15112 V-11-8073	
10	1409046-001amsd	below	
	Notes	x1 low level soil pb15112 V-11-8073	
11	1409046-002a	below	
	Notes	x1 low level soil pb15112	
12	1409046-004a	below	
	Notes	x1 low level soil pb15112	
13	b5	none	
14	1409046-005a	below	
	Notes	x1 low level soil pb15112	
15	b6	none	
16	1409136-001a	below	
	Notes	x1 low level soil pb15112	@ 4:30
17	b7	none	
18	b8	none	
19			

Loaded By: cgg 9-4-14
1st Review By: cgg 9-6-14
QA'd By: 9-8-14

rectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090414m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıs\data\2014\0914m\090414m\5ppb 5035 ccv 9-4-2014.SMS Lab Sample ID: 5ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 9/4/2014 Time Analyzed: 10:42

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	65197	7.09	92703	13.40	37506	16.98						
UPPER LIMIT	130394	7.59	185406	13.90	75012	17.48						
LOWER LIMIT	32599	6.59	46352	12.90	18753	16.48						
EPA SAMPLE NO												
b1 9-4-201	63306	7.08	86417	13.39	25102	16.98						
b2 9-4-201	59577	7.09	86895	13.40	27241	16.98						
b3 9-4-201	73332	7.09	102463	13.40	31463	16.98						
mb-15112 9	59678	7.09	87892	13.40	27903	16.98						
lcs-15112	72660	7.09	103992	13.40	33858	16.98						
b4 9-4-201	76455	7.08	105646	13.40	34745	16.98						
1409046-00	47372	7.09	68748	13.40	25240	16.98						
1409046-00	68448	7.09	104172	13.40	40381	16.98						
1409046-00	71967	7.09	111049	13.40	38905	16.98						
1409046-00	46052	7.09	65878	13.40	25037	16.98						
1409046-00	35208	7.09	50611	13.40	20203	16.98						
b5 9-4-201	67394	7.09	98821	13.40	34974	16.99						
1409046-00	48367	7.09	68589	13.40	28169	16.99						
b6 9-4-201	69812	7.09	100981	13.40	35248	16.98						
1409136-00	39624	7.09	58726	13.40	21110	16.99						
b7 9-4-201	77255	7.09	115219	13.40	39481	16.98						

09-5-14

√ 9.9.14

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
b8 9-4-201	75390	7.09	110628	13.40	39005	16.98						

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

cdg 9-5-14

✓ 14 9.9.14

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 9/4/2014 Time: 10:42

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/3/2014 9/3/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Lab File ID: c:\agilentws\data\5ppb 5035 ccv 9-4-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.417	0.100	5.00	5.33	-6.6	30.0	PASS	PASS
Chloromethane	13.309	0.100	5.00	5.38	-7.5	30.0	PASS	PASS
Vinyl chloride	14.872	0.100	5.00	5.48	-9.6	20.0	PASS	PASS
Chloroethane	2.474	0.100	5.00	5.20	-4.0	30.0	PASS	PASS
Bromomethane	1.562	0.100	5.00	3.98	20.5	30.0	PASS	PASS
Trichlorofluoromethane	3.413	0.100	5.00	4.87	2.5	30.0	PASS	PASS
1,1-Dichloroethene	8.025	0.100	5.00	4.93	1.4	20.0	PASS	PASS
Acetone	2.722	0.100	10.00	8.31	16.9	40.0	PASS	PASS
Carbon disulfide	6.607	0.100	10.00	11.20	-12.0	40.0	PASS	PASS
Iodomethane	3.463	0.100	10.00	5.53	44.7	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	7.589	0.100	10.00	11.24	-12.4	30.0	PASS	PASS
Isopropyl ether	35.494	0.100	10.00	11.66	-16.6	40.0	PASS	PASS
tert-Butyl alcohol	0.736	0.100	100.00	76.83	23.2	40.0	PASS	PASS
trans-1,2-DCE	15.250	0.100	5.00	5.22	-4.4	30.0	PASS	PASS
tert-Butyl ethyl ether	120.110	0.100	10.00	11.57	-15.7	40.0	PASS	PASS
Methylene Chloride	17.765	0.100	5.00	8.09	-61.9	30.0	FAIL	PASS
1,1-Dichloroethane	4.148	0.100	5.00	3.85	23.0	30.0	PASS	PASS
Vinyl acetate	16.402	0.100	10.00	13.09	-30.9	40.0	PASS	PASS
2,2-Dichloropropane	3.425	0.100	5.00	5.93	-18.7	30.0	PASS	PASS
2-Butanone	6.825	0.100	10.00	10.38	-3.8	40.0	PASS	PASS
1,1,1-Trichloroethane	5.463	0.100	5.00	5.11	-2.3	30.0	PASS	PASS
1,1-Dichloropropene	7.915	0.100	5.00	4.86	2.7	30.0	PASS	PASS
tert-Amyl methyl ether	32.493	0.100	10.00	10.97	-9.7	40.0	PASS	PASS
Carbon Tetrachloride	2.559	0.100	5.00	5.02	-0.3	30.0	PASS	PASS
cis-1,2-DCE	2.923	0.100	5.00	5.08	-1.7	30.0	PASS	PASS
Benzene	10.460	0.100	5.00	5.09	-1.9	30.0	PASS	PASS
Chloroform	5.453	0.100	5.00	4.94	1.2	20.0	PASS	PASS
Bromochloromethane	4.652	0.100	5.00	5.95	-19.1	30.0	PASS	PASS
Trichloroethene (TCE)	17.592	0.100	5.00	5.32	-6.3	30.0	PASS	PASS
Dibromofluoromethane	3.153	0.100	20.00	20.25	-1.2	30.0	PASS	PASS
1,2-Dichloroethane-d4	11.941	0.100	20.00	19.45	2.7	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	71.315	0.100	5.00	5.29	-5.8	30.0	PASS	PASS
1,2-Dichloropropane	21.701	0.100	5.00	5.31	-6.1	20.0	PASS	PASS
4-Methyl-2-pentanone	4.777	0.100	10.00	9.92	0.8	40.0	PASS	PASS
Toluene-d8	1.859	0.100	20.00	20.44	-2.2	30.0	PASS	PASS

cadg 9-5-14

All samples ND for DCM

JA 9-9-14

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	11.158	0.100	5.00	5.47	-9.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	5.670	0.100	10.00	10.03	-0.3	40.0	PASS	PASS
cis-1,3-dichloropropene	16.822	0.100	5.00	5.21	-4.1	30.0	PASS	PASS
Bromodichloromethane	3.244	0.100	5.00	5.37	-7.3	30.0	PASS	PASS
2-Hexanone	11.578	0.100	10.00	9.46	5.4	40.0	PASS	PASS
Tetrachloroethene (PCE)	3.198	0.100	5.00	5.34	-6.8	30.0	PASS	PASS
Dibromomethane	5.778	0.100	5.00	5.47	-9.5	30.0	PASS	PASS
1,3-Dichloropropane	6.263	0.100	5.00	5.48	-9.6	30.0	PASS	PASS
trans-1,3-dichloropropene	3.292	0.100	5.00	5.39	-7.9	30.0	PASS	PASS
Ethylbenzene	13.368	0.100	5.00	5.60	-12.0	20.0	PASS	PASS
mp-Xylenes	11.610	0.100	10.00	11.15	-11.5	30.0	PASS	PASS
1,1,2-Trichloroethane	7.223	0.100	5.00	5.90	-18.0	30.0	PASS	PASS
Chlorobenzene	5.916	0.300	5.00	5.52	-10.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.853	0.100	5.00	5.08	-1.7	30.0	PASS	PASS
o-Xylene	12.315	0.100	5.00	5.74	-14.7	30.0	PASS	PASS
Dibromochloromethane	1.721	0.100	5.00	5.84	-16.8	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.955	0.100	5.00	6.03	-20.5	30.0	PASS	PASS
Isopropylbenzene	12.574	0.100	5.00	5.72	-14.3	30.0	PASS	PASS
Styrene	5.752	0.100	5.00	5.43	-8.6	30.0	PASS	PASS
n-Propylbenzene	39.890	0.100	5.00	5.15	-3.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	28.017	0.100	5.00	5.06	-1.3	30.0	PASS	PASS
tert-Butylbenzene	34.274	0.100	5.00	5.04	-0.8	30.0	PASS	PASS
2-Chlorotoluene	9.897	0.100	5.00	5.18	-3.5	30.0	PASS	PASS
4-Bromofluorobenzene	2.405	0.100	20.00	18.72	6.4	30.0	PASS	PASS
Bromobenzene	44.288	0.100	5.00	5.11	-2.1	30.0	PASS	PASS
4-Chlorotoluene	67.329	0.100	5.00	4.42	11.6	30.0	PASS	PASS
sec-Butylbenzene	42.036	0.100	5.00	4.77	4.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	89.849	0.100	5.00	4.90	1.9	30.0	PASS	PASS
4-Isopropyltoluene	31.321	0.100	5.00	5.09	-1.8	30.0	PASS	PASS
Bromoform	10.065	0.100	5.00	4.81	3.9	30.0	PASS	PASS
1,2,3-Trichloropropane	12.337	0.100	5.00	4.65	7.1	30.0	PASS	PASS
n-Butylbenzene	43.565	0.100	5.00	4.45	11.0	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	38.548	0.300	5.00	4.70	6.0	30.0	PASS	PASS
1,3-Dichlorobenzene	12.289	0.100	5.00	4.98	0.4	30.0	PASS	PASS
1,4-Dichlorobenzene	11.423	0.100	5.00	4.98	0.3	30.0	PASS	PASS
1,2-Dichlorobenzene	11.611	0.100	5.00	4.91	1.8	30.0	PASS	PASS
Hexachlorobutadiene	31.095	0.100	5.00	4.93	1.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	8.222	0.100	5.00	4.13	17.5	30.0	PASS	PASS
1,2,4-Trichlorobenzene	24.795	0.100	5.00	4.11	17.8	30.0	PASS	PASS
Naphthalene	6.445	0.100	5.00	3.55	29.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	20.205	0.100	5.00	3.91	21.7	30.0	PASS	PASS
2-Methylnaphthalene	8.840	0.100	5.00	3.61	27.7	40.0	PASS	PASS
1-Methylnaphthalene	12.575	0.100	5.00	3.61	27.7	40.0	PASS	PASS

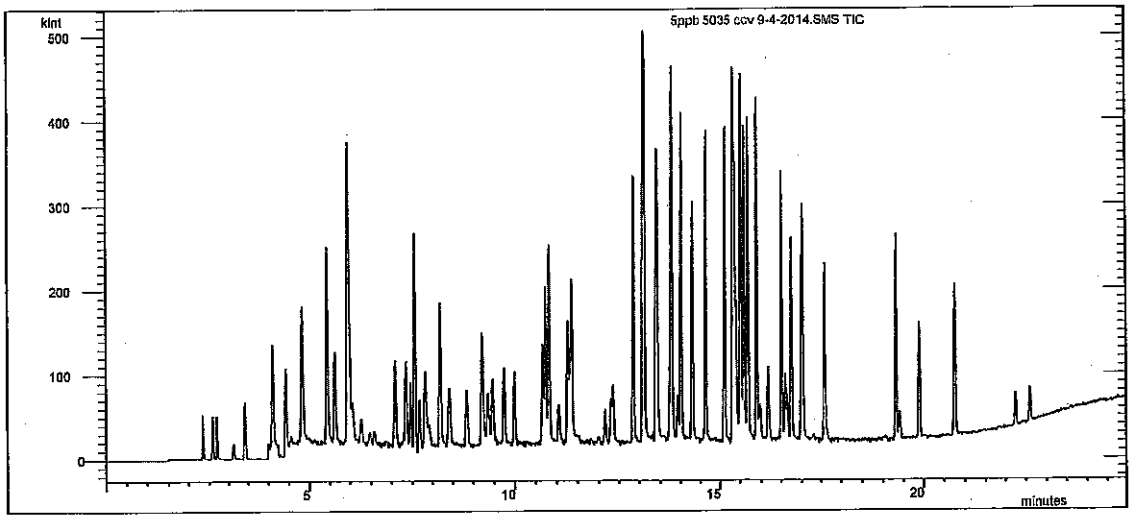
99.5.14

9-9-14

Analyst: cadg

8260B/624 Report

Sample Name:	5ppb 5035 ccv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0478	**Acquisition Date:**	9/4/2014 10:42:06 AM
Calculation Date:	9/4/2014 11:55:36 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.088	697	Identified	65197	20.000
Benzene-d5-, chloro-	13.398	1372	Identified	92703	20.000
1,4-Dichlorobenzene-d4	16.981	1751	Identified	37506	20.000
Dichlorodifluoromethane	2.335	183	Identified	39387	5.329
Chloromethane	2.577	209	Identified	216924	5.375
Vinyl chloride	2.688	221	Identified	242406	5.478
Chloroethane	3.117	268	Identified	40324	5.198
Bromomethane	3.119	268	Identified	25461	3.976
Trichlorofluoromethane	3.408	300	Identified	55634	4.874
1,1-Dichloroethene	4.111	377	Identified	130808	4.928
Acetone	4.291	397	Identified	88734	8.314
Carbon disulfide	4.426	411	Identified	215371	11.204
Iodomethane	4.553	424	Identified	112894	5.527
Methyl tert-butyl ether (MTBE)	4.823	454	Identified	247403	11.241
Isopropyl ether	5.430	519	Identified	1.157E6	11.658
tert-Butyl alcohol	5.483	524	Identified	240039	76.830
trans-1,2-DCE	5.623	539	Identified	248560	5.220
tert-Butyl ethyl ether	5.938	573	Identified	3.915E6	11.566
Methylene Chloride	5.974	577	Identified	289551	8.093
1,1-Dichloroethane	6.062	586	Identified	67605	3.850
Vinyl acetate	6.268	608	Failed SOL	534686	13.088
2,2-Dichloropropane	6.476	631	Identified	55820	5.933
2-Butanone	6.582	642	Identified	222473	10.378
1,1,1-Trichloroethane	7.352	725	Identified	89046	5.113

9.5.14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.465	737	Identified	129001	4.864
tert-Amyl methyl ether	7.561	747	Identified	1.059E6	10.969
Carbon Tetrachloride	7.684	760	Identified	41709	5.015
cis-1,2-DCE	7.830	775	Identified	47641	5.083
Benzene	8.196	815	Identified	170491	5.093
Chloroform	8.424	839	Identified	88876	4.938
Bromochloromethane	8.841	884	Identified	75821	5.955
Trichloroethene (TCE)	9.211	924	Identified	286733	5.315
Dibromofluoromethane	9.237	926	Identified	205564	20.249
1,2-Dichloroethane-d4	9.352	939	Identified	778528	19.455
1,2-Dichloroethane (EDC)	9.459	950	Identified	1.162E6	5.290
1,2-Dichloropropane	9.735	980	Identified	353701	5.305
4-Methyl-2-pentanone	9.987	1006	Identified	221443	9.925
Toluene-d8	10.734	1087	Identified	172381	20.442
Toluene	10.818	1096	Identified	258584	5.468
2-Chloroethyl vinyl ether	11.051	1121	Identified	262835	10.029
cis-1,3-dichloropropene	11.263	1143	Identified	389862	5.205
Bromodichloromethane	11.273	1144	Identified	75190	5.365
2-Hexanone	11.322	1150	Identified	536652	9.463
Tetrachloroethene (PCE)	11.356	1153	Identified	74118	5.341
Dibromomethane	11.362	1154	Identified	133907	5.473
1,3-Dichloropropane	12.307	1255	Identified	145141	5.479
trans-1,3-dichloropropene	12.359	1261	Identified	76301	5.393
Ethylbenzene	12.845	1313	Identified	309812	5.602
mp-Xylenes	13.096	1340	Identified	538122	11.153
1,1,2-Trichloroethane	13.088	1339	Identified	167391	5.899
Chlorobenzene	13.422	1374	Identified	137107	5.515
1,2-Dibromoethane (EDB)	13.403	1372	Identified	42934	5.083
o-Xylene	13.767	1411	Identified	285417	5.736
Dibromochloromethane	13.733	1407	Identified	39882	5.842
1,1,1,2-Tetrachloroethane	13.787	1413	Identified	68482	6.025
Isopropylbenzene	14.008	1436	Identified	291412	5.717
Styrene	14.275	1464	Identified	133311	5.432
n-Propylbenzene	14.632	1502	Identified	374036	5.150
1,3,5-Trimethylbenzene	15.112	1554	Identified	262707	5.064
tert-Butylbenzene	15.320	1576	Identified	321370	5.040
2-Chlorotoluene	15.358	1580	Failed	92801	5.176
4-Bromofluorobenzene	15.405	1584	Identified	90190	18.721
Bromobenzene	15.501	1595	Identified	415273	5.107
4-Chlorotoluene	15.519	1596	Identified	631316	4.420
sec-Butylbenzene	15.598	1605	Identified	394151	4.775
1,2,4-Trimethylbenzene	15.689	1614	Identified	842480	4.905
4-Isopropyltoluene	15.887	1635	Identified	293685	5.088
Bromoform	15.966	1643	Identified	94379	4.805
1,2,3-Trichloropropane	16.172	1665	Identified	115677	4.646
n-Butylbenzene	16.500	1700	Identified	408492	4.450
1,1,2,2-Tetrachloroethane	16.595	1710	Identified	361445	4.702
1,3-Dichlorobenzene	16.747	1726	Identified	115226	4.982
1,4-Dichlorobenzene	17.009	1754	Identified	107110	4.985
1,2-Dichlorobenzene	17.590	1815	Identified	108868	4.910

99.5-141

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.307	2000	Identified	291567	4.927
1,2-Dibromo-3-chloropropane	19.397	2010	Identified	77098	4.127
1,2,4-Trichlorobenzene	19.891	2062	Identified	232491	4.112
Naphthalene	20.744	2153	Identified	60431	3.549
1,2,3-Trichlorobenzene	20.761	2154	Identified	189453	3.914
2-Methylnaphthalene	22.244	2310	Identified	82890	3.614
1-Methylnaphthalene	22.598	2347	Identified	117914	3.614

****
Revision Log
****

9/4/2014 11:07 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:55 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

ampleList: C:\AgilentWS\090314m.smp

reated: Wed Sep 03 08:15:41 2014
odified: Wed Sep 03 20:12:59 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	rt check	below
	Notes V-54-0478	
4	b3	none
5	b4	none
6	b5	none
7	b6	none
8	b7	none tune @12:32
9		
10	0.4ppb 5035 low crv	below
	Notes V-54-0478	
11	1ppb 5035 low crv	below
	Notes V-54-0478	
12	2ppb 5035 low crv	below
	Notes V-54-0478	
13	3ppb 5035 low crv	below
	Notes V-54-0478	
14	5ppb 5035 low crv	below
	Notes V-54-0478	
15	10ppb 5035 low crv	below
	Notes V-54-0478	
16	20ppb 5035 low crv	below
	Notes V-54-0478	
17	50ppb 5035 low crv	below
	Notes V-54-0478	
18	b8	none
19	100ppb 5035 low crv	below
	Notes V-54-0478	
20	b9	none
21	b10	none
22	5ppb 5035 low icv	below @6'46
	Notes V-54-0480	
23	b11	none
24	b12	none
25		

Loaded By: 9-3-14
1st Review By: 9-4-14
QA'd By: 9-9-14

.rectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090314m.rcl.

Calibration Summary

Instrument: Mercury **Date:** 9-3-14

Calibration Name: 0903W-m 8260-5035 Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☐	☐	
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☑	☐	UQL= 500ppb
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UQL= 40 ppb
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☑	☐	UQL= 1000ppb
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UQL= 100 ppb
1,1-Dichloroethane	☐	☐	☑	☐	UQL= 500ppb
Methylene Chloride	☐	Low ☑	☑	☐	~~PQL= 2ppb~~
Vinyl acetate	☐	High ☑	☑	☐	PQL= 40ppb Run on a different instrument
2,2-Dichloropropane	☐	High ☑	☑	☐	UQL= 5 ppb, run on a different instrument
2-Butanone	☐	☐	☑	☐	PQL= 2ppb
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☑	☐	UQL= 40 ppb
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☑	☐	UQL= 30 ppb
2-Hexanone	☐	☐	☑	☐	PQL= 2 ppb
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	LRL = 20 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☑	☐	LRL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: cg 9-4-14

QA: RA 9-8-14

Additional Comments: PMa updated & verified cg 9-4-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ing\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS Lab Sample ID: 5ppb 5035 low crv

Instrument ID: Mercury Date Analyzed: 9/3/2014 Time Analyzed: 14:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	52652	7.09	74456	13.40	27159	16.99						
UPPER LIMIT	105304	7.59	148912	13.90	54318	17.49						
LOWER LIMIT	26326	6.59	37228	12.90	13580	16.49						
EPA SAMPLE NO												
b7 9-3-201	71382	7.08	99458	13.40	29907	16.98						
0.4ppb 503	62139	7.09	89513	13.40	30671	16.98						
1ppb 5035	61341	7.09	90104	13.40	31887	16.99						
2ppb 5035	65557	7.10	98399	13.40	35150	16.99						
3ppb 5035	57934	7.09	86901	13.40	32406	16.99						
10ppb 5035	61849	7.10	87532	13.40	31607	16.99						
20ppb 5035	66768	7.10	99679	13.40	36421	16.99						
50ppb 5035	64785	7.10	100160	13.40	34898	16.99						
b8 9-3-201	60099	7.10	84835	13.40	29057	16.99						
100ppb 503	55979	7.09	82032	13.40	31122	16.99						
b9 9-3-201	63044	7.09	90962	13.40	32759	16.99						
b10 9-3-20	60522	7.09	87341	13.40	30100	16.99						
5ppb 5035	64075	7.09	88987	13.40	33984	16.98						
b11 9-3-20	61835	7.09	88663	13.40	29821	16.99						
b12 9-3-20	57081	7.09	79492	13.40	28720	16.99						

9-4-14

9-8-14

9/4/2014 12:18

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)
Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 9-3-2014.sms Injection Date: 9/3/2014

Instrument ID: Mercury Injection Time: 12:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	22.7	
75	30-60% of m/z 95	50.0	
95	base peak	100.0	
96	5-9% of m/z 95	7.7	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	63.6	
175	5-9% of m/z 174	4.7 (7.4)	174
176	>95% but <101% of m/z 174	63.0 (99.1)	174
177	5-9% of m/z 176	4.4 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 9-3-201	b7	c:\agilentws\data\pending\090414m 5035 low crv\b7 9-3-2014.SMS	9/3/2014 12:32
3 0.4ppb 503	0.4ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\0.4ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:01
4 1ppb 5035	1ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\1ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:30
5 2ppb 5035	2ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\2ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:59
6 3ppb 5035	3ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\3ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:27
7 5ppb 5035	5ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:56
8 10ppb 5035	10ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\10ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:25
9 20ppb 5035	20ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\20ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:54
10 50ppb 5035	50ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\50ppb 5035 low crv 9-3-2014.SMS	9/3/2014 16:23
11 b8 9-3-201	b8	c:\agilentws\data\pending\090414m 5035 low crv\b8 9-3-2014.SMS	9/3/2014 16:51
12 100ppb 503	100ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\100ppb 5035 low crv 9-3-2014.SMS	9/3/2014 17:20
13 b9 9-3-201	b9	c:\agilentws\data\pending\090414m 5035 low crv\b9 9-3-2014.SMS	9/3/2014 17:49

9/4/2014 11:52

Analyst: cadg

Instrument Performance Check

JRA 9-8-14 cdg 9-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b10 9-3-20	b10	c:\agilentws\data\pending\090414m 5035 low crv\b10 9-3-2014.SMS	9/3/2014 18:18
15 5ppb 5035	5ppb 5035 low icv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low icv 9-3-2014.SMS	9/3/2014 18:46
16 b11 9-3-20	b11	c:\agilentws\data\pending\090414m 5035 low crv\b11 9-3-2014.SMS	9/3/2014 19:15
17 b12 9-3-20	b12	c:\agilentws\data\pending\090414m 5035 low crv\b12 9-3-2014.SMS	9/3/2014 19:44

9-8-14 cadg 9-4-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 9/3/2014 9/3/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 17:20 17:20

GC Column: DB-VRX ID: 250 (mm)

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	2.792	2.704	2.555	2.519	2.693	2.373	2.329	2.124	0.9996	2.467	10.1	PASS	PASS
2.115													
Chloromethane	10.581	9.350	10.983	11.330	12.473	12.799	12.870	12.474	0.9999	11.739	10.6	PASS	PASS
12.790													
Vinyl chloride	8.784	10.310	12.330	14.414	14.507	14.357	14.174	12.969	0.9995	12.808	15.8	PASS	PASS
13.422													
Chloroethane	1.580	1.482	1.528	1.833	2.191	2.680	2.666	2.571	0.9992	2.112	24.1	PASS	PASS
2.476													

Analyst: cadg

9/4/14

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Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Bromomethane	3.244	1.671	1.341	1.594	1.638	2.063	3.343	4.522	0.9986	2.427	47.0	PASS	PASS
Trichlorofluoromethane 3.599	3.436	3.374	3.438	3.516	3.856	3.335	3.434	3.370	0.9990	3.484	4.6	PASS	PASS
1,1-Dichloroethene 8.370	7.892	8.133	8.126	8.295	8.575	7.792	7.996	7.821	0.9990	8.111	3.3	PASS	PASS
Acetone 3.609	4.906	2.902	2.773	2.716	2.357	2.415	3.132	3.350	0.9981	3.129	25.0	PASS	PASS
Carbon disulfide 5.314	7.278	6.584	6.441	6.603	6.905	6.440	6.333	5.836	0.9973	6.415	8.9	PASS	PASS
Iodomethane	4.126	3.107	3.395	4.237	4.568	5.824	7.922	8.519	0.9966	5.212	39.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.370	7.269	7.540	7.605	7.326	6.665	6.391		0.9986	7.167	6.4	PASS	PASS
Isopropyl ether 27.063	31.322	34.552	35.665	35.788	34.851	34.051	34.769	30.072	0.9956	33.126	9.0	PASS	PASS
tert-Butyl alcohol	1.137	1.106	0.974	0.932	0.965				0.9983	1.023	9.0	PASS	PASS
trans-1,2-DCE 14.335	15.093	15.157	15.310	15.467	15.835	14.910	14.981	14.039	0.9998	15.014	3.7	PASS	PASS
tert-Butyl ethyl ether	113.924	118.465	122.392	118.860	114.053	111.098	113.526	92.034	0.9918	113.044	8.2	PASS	PASS
Methylene Chloride 7.484					12.985	10.172	9.155	7.974	0.9996	9.554	22.9	PASS	PASS
1,1-Dichloroethane	2.610	2.738	3.206	3.449	4.137	4.728	5.861	6.870	0.9954	4.200	36.4	PASS	PASS

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate			9.612	9.550	10.646	12.523	14.786	14.837	0.9985	12.273	19.1	PASS	PASS
13.959													
2,2-Dichloropropane	2.997	2.729	2.665	2.637	2.958				0.9939	2.797	6.0	PASS	PASS
2-Butanone		5.614	7.554	6.215	7.262	6.488	6.690	6.468	0.9999	6.599	9.1	PASS	PASS
6.505													
1,1,1-Trichloroethane	5.722	5.312	5.433	5.435	5.929	5.230	5.423	5.341	0.9998	5.448	4.3	PASS	PASS
5.212													
1,1-Dichloropropene	8.233	8.360	8.155	8.277	8.580	7.854	8.265	8.042	1.0000	8.206	2.5	PASS	PASS
8.087													
tert-Amyl methyl ether	29.899	31.213	31.645	32.207	31.095	30.633	31.551	27.752	0.9972	30.749	4.5	PASS	PASS
Carbon Tetrachloride	2.485	2.511	2.474	2.643	2.825	2.515	2.635	2.558	0.9998	2.572	4.4	PASS	PASS
2.502													
cis-1,2-DCE	2.756	2.841	2.917	2.917	2.994	2.813	2.967	2.830	0.9999	2.879	2.7	PASS	PASS
2.875													
Benzene	10.466	10.463	10.372	10.679	10.993	10.206	10.459	9.994	0.9999	10.424	2.8	PASS	PASS
10.185													
Chloroform	5.007	5.042	5.459	5.312	5.544	5.470	5.794	5.497	0.9999	5.414	4.7	PASS	PASS
5.597													
Bromochloromethane	4.687	4.752	4.845	4.534	4.340	3.897	3.954	3.800	0.9995	4.272	10.7	PASS	PASS
3.641													
Trichloroethene (TCE)	17.850	16.797	16.874	17.052	18.019	16.205	16.737	16.185	0.9999	16.896	3.9	PASS	PASS
16.345													
Dibromofluoromethane	3.021	2.934	3.190	3.135	3.185	3.137	3.227	3.125	0.9924	3.114	2.9	PASS	PASS
3.074													

Analyst: cadg

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cg 9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,2-Dichloroethane-d4 11.225	12.853	12.438	12.827	12.826	12.963	11.803	11.935	11.613	0.9761	12.276	√ 5.2	PASS	PASS
1,2-Dichloroethane (EDC) 63.907	66.785	69.782	71.229	71.860	70.983	68.896	71.975	68.359	0.9987	69.309	3.8	PASS	PASS
1,2-Dichloropropane 19.585	22.334	21.052	22.279	22.708	21.294	20.544	21.452	20.131	0.9996	21.264	5.0	PASS	PASS
4-Methyl-2-pentanone 4.761	4.355	4.731	4.500	4.758	5.374	4.912	4.753	4.678	0.9999	4.758	5.9	PASS	PASS
Toluene-d8 1.821	1.888	1.803	1.784	1.799	1.903	1.841	1.771	1.764	0.9935	1.819	2.7	PASS	PASS
Toluene 9.984	11.587	10.924	10.763	10.644	11.676	10.756	10.314	9.528	0.9993	10.686	6.5	PASS	PASS
2-Chloroethyl vinyl ether ( )	4.512	5.295	4.668	5.460	5.481	5.721	5.881	( )	0.9996	5.288	9.7	PASS	PASS
cis-1,3-dichloropropene 16.169	14.297	13.672	14.918	15.146	16.310	16.872	17.153	16.559	0.9997	15.677	7.7	PASS	PASS
Bromodichloromethane 2.953	3.156	2.878	2.951	3.108	3.210	3.230	3.228	2.943	0.9996	3.073	4.6	PASS	PASS
2-Hexanone 12.687	( )	12.377	11.269	12.314	13.403	11.837	11.940	11.779	0.9988	12.201	5.3	PASS	PASS
Tetrachloroethene (PCE) 3.002	3.288	3.128	2.964	3.025	3.318	2.951	2.986	2.851	0.9994	3.057	5.1	PASS	PASS
Dibromomethane ( )	5.580	5.685	5.464	5.737	5.631	5.560	4.923	( )	0.9957	5.511	5.0	PASS	PASS
1,3-Dichloropropane 5.441	5.604	5.072	6.118	6.096	6.490	6.178	6.152	5.662	0.9992	5.868	7.6	PASS	PASS

√ 9-8-14

cdg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.164	2.261	2.705	2.804	3.025	3.270	3.385	3.274	0.9980	2.878	15.2	PASS	PASS
3.017													
Ethylbenzene	13.293	12.615	12.289	12.288	13.721	12.055	11.893	11.304	0.9995	12.363	6.1	PASS	PASS
11.806													
mp-Xylenes	11.863	10.945	10.688	10.714	11.686	10.687	10.389	9.668	0.9988	10.781	6.2	PASS	PASS
10.394													
1,1,2-Trichloroethane	6.801	6.904	7.218	6.990	7.183	6.945	6.697	5.977	0.9974	6.692	8.6	PASS	PASS
5.509													
Chlorobenzene	5.797	5.374	5.374	5.380	5.786	5.419	5.520	5.234	0.9999	5.464	3.7	PASS	PASS
5.292													
1,2-Dibromoethane (EDB)	1.633	1.716	1.780	1.777	1.876	1.859	1.816		0.9997	1.779	4.7	PASS	PASS
o-Xylene	11.579	11.077	11.260	11.397	11.933	11.254	10.902	10.136	0.9995	11.124	4.8	PASS	PASS
10.581													
Dibromochloromethane	1.541	1.527	1.557	1.596	1.584	1.563	1.550	1.436	0.9997	1.530	4.1	PASS	PASS
1.416													
1,1,1,2-Tetrachloroethane	2.564	2.611	2.567	2.633	2.738	2.585	2.636	2.436	0.9990	2.565	4.8	PASS	PASS
2.314													
Isopropylbenzene	11.898	11.747	11.112	11.458	12.598	11.378	11.057	10.218	0.9988	11.381	5.9	PASS	PASS
10.960													
Styrene	5.086	5.081	5.244	5.509	5.616	5.324	5.391	5.012	0.9989	5.295	3.9	PASS	PASS
5.395													
n-Propylbenzene	41.896	41.911	39.761	39.083	44.262	39.414	38.748	37.338	0.9999	40.032	5.6	PASS	PASS
37.879													
1,3,5-Trimethylbenzene	31.400	29.452	28.656	27.992	31.376	28.943	27.065	26.463	0.9998	28.714	6.3	PASS	PASS
27.079													

Analyst: cadg

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cdg 9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
tert-Butylbenzene 32.671	37.345	38.501	35.839	35.386	39.030	35.194	33.232	33.114	0.9999	35.590	6.6	PASS	PASS
2-Chlorotoluene 8.976	10.874	10.965	9.984	9.938	10.831	10.011	9.785	9.446	0.9993	10.090	6.8	PASS	PASS
4-Bromofluorobenzene 2.539	2.682	2.648	2.547	2.412	2.535	2.586	2.538	2.633	0.9914	2.569	3.1	PASS	PASS
Bromobenzene	51.961	48.246	46.930	44.776	48.054	45.185	44.475	40.231	0.9982	46.232	7.4	PASS	PASS
4-Chlorotoluene 81.002	70.489	69.756	68.776	68.910	75.716	71.147	73.168	77.117	0.9993	72.898	5.8	PASS	PASS
sec-Butylbenzene 43.759	44.162	46.326	43.680	45.252	50.204	44.118	42.860	42.743	0.9998	44.789	5.2	PASS	PASS
1,2,4-Trimethylbenzene 90.546	91.514	95.289	89.884	93.837	104.343	94.689	90.043	89.158	0.9999	93.256	5.1	PASS	PASS
4-Isopropyltoluene 29.707	29.169	32.627	31.282	31.073	36.941	32.230	31.068	30.375	0.9998	31.608	7.2	PASS	PASS
Bromoform 10.024	10.683	10.739	10.536	9.830	10.927	10.717	10.980	10.876	0.9984	10.590	3.8	PASS	PASS
1,2,3-Trichloropropane 13.131	14.006	13.190	13.218	12.596	14.218	13.575	13.229	13.258	1.0000	13.380	3.6	PASS	PASS
n-Butylbenzene 49.553	34.071	43.146	44.814	47.840	57.336	50.678	49.828	50.032	0.9999	47.478	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane 39.717	41.646	39.732	41.087	40.367	44.586	42.303	41.781	41.744	0.9994	41.440	3.6	PASS	PASS
1,3-Dichlorobenzene 11.734	13.158	13.226	12.806	12.553	13.874	12.935	12.403	12.359	0.9994	12.783	4.8	PASS	PASS

9/4/2014

9/4/2014 12:23

5ppb 5035 low crv 9-3-2014.SMS

Analyst: cadg

9.8.14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,4-Dichlorobenzene 11.101	10.744	11.155	11.211	11.061	13.265	11.712	11.686	11.778	0.9992	11.524	6.4	PASS	PASS
1,2-Dichlorobenzene 11.444	11.602	12.356	12.004	11.630	13.114	12.205	12.457	11.682	0.9997	12.055	4.4	PASS	PASS
Hexachlorobutadiene 31.049	34.181	35.944	31.909	33.374	37.539	32.617	30.456	29.395	0.9992	32.940	8.0	PASS	PASS
1,2-Dibromo-3-chloropropane 10.244	8.613	9.082	8.767	9.164	10.962	10.089	9.958	10.162	0.9999	9.671	8.2	PASS	PASS
1,2,4-Trichlorobenzene 32.619	16.353	18.662	22.700	25.676	32.043	30.610	33.015	32.724	0.9999	27.156	24.1	PASS	PASS
Naphthalene 13.258	4.703	5.487	6.444	7.544	9.833	9.953	11.492	12.139	0.9999	8.984	34.1	PASS	PASS
1,2,3-Trichlorobenzene 27.200	14.075	15.820	18.594	22.079	28.857	27.237	29.682	28.426	0.9992	23.552	25.7	PASS	PASS
2-Methylnaphthalene 20.642	3.928	5.421	7.663	9.159	12.972	14.218	17.446	19.283	0.9998	12.304	49.6	PASS	PASS
1-Methylnaphthalene 27.857	6.669	8.399	11.513	12.735	17.945	20.537	23.724	25.864	0.9999	17.249	45.1	PASS	PASS
										Average %RSD	10.2		

9-9-14

cdg 9.8.14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 lo **Acquisition Date:** 9/3/2014 18:46

Comment: V-54-0480

SampleID: 5ppb 5035 low icv **Analyst:** Rene Aguilera

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Cal. Sample Dates: First: 9/3/2014 17:20 **Last:** 9/3/2014 17:20

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	6.12	ppb	5.00	122 %	70 - 130	PASS
2)	Chloromethane	5.14	ppb	5.00	103 %	70 - 130	PASS
3)	Vinyl chloride	5.53	ppb	5.00	111 %	80 - 120	PASS
4)	Chloroethane	5.16	ppb	5.00	103 %	70 - 130	PASS
5)	Bromomethane	5.92	ppb	5.00	118 %	70 - 130	PASS
6)	Trichlorofluoromethane	4.49	ppb	5.00	90 %	70 - 130	PASS
7)	1,1-Dichloroethene	4.65	ppb	5.00	93 %	80 - 140	PASS
8)	Acetone	9.02	ppb	10.00	90 %	60 - 140	PASS
9)	Carbon disulfide	11.64	ppb	10.00	116 %	60 - 140	PASS
10)	Iodomethane	6.79	ppb	10.00	68 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	10.77	ppb	10.00	108 %	70 - 130	PASS
12)	Isopropyl ether	11.56	ppb	10.00	116 %	60 - 140	PASS
13)	tert-Butyl alcohol	95.41	ppb	100.00	95 %	60 - 140	PASS
14)	trans-1,2-DCE	4.94	ppb	5.00	99 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	11.13	ppb	10.00	111 %	60 - 140	PASS
16)	Methylene Chloride	2.75	ppb	5.00	55 %	70 - 130	FAIL
17)	1,1-Dichloroethane	3.53	ppb	5.00	71 %	70 - 130	PASS
18)	Vinyl acetate	16.68	ppb	10.00	167 %	60 - 140	FAIL
19)	2,2-Dichloropropane	6.59	ppb	5.00	132 %	70 - 130	FAIL
20)	2-Butanone	11.47	ppb	10.00	115 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	5.05	ppb	5.00	101 %	70 - 130	PASS
23)	1,1-Dichloropropene	4.78	ppb	5.00	96 %	70 - 130	PASS
24)	tert-Amyl methyl ether	10.77	ppb	10.00	108 %	60 - 140	PASS
25)	Carbon Tetrachloride	5.02	ppb	5.00	100 %	70 - 130	PASS
26)	cis-1,2-DCE	4.84	ppb	5.00	97 %	70 - 130	PASS
27)	Benzene	4.93	ppb	5.00	99 %	70 - 130	PASS
28)	Chloroform	4.82	ppb	5.00	96 %	80 - 120	PASS
29)	Bromochloromethane	5.39	ppb	5.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	5.06	ppb	5.00	101 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	5.00	ppb	5.00	100 %	70 - 130	PASS
34)	1,2-Dichloropropane	5.13	ppb	5.00	103 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	11.32	ppb	10.00	113 %	60 - 140	PASS
37)	Toluene	5.39	ppb	5.00	108 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	10.78	ppb	10.00	108 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	4.50	ppb	5.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	5.38	ppb	5.00	108 %	70 - 130	PASS
41)	2-Hexanone	11.41	ppb	10.00	114 %	60 - 140	PASS

M 9-9-14
Passes PQL evaluation
~~[illegible]~~
rerun on a different instrument
cdg 9-4-14
IPA 9-8-14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	5.39	ppb	5.00	108 %	70 - 130	PASS
43)	Dibromomethane	5.34	ppb	5.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	5.42	ppb	5.00	108 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	4.82	ppb	5.00	96 %	70 - 130	PASS
46)	Ethylbenzene	5.47	ppb	5.00	109 %	80 - 120	PASS
47)	mp-Xylenes	10.73	ppb	10.00	107 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	5.83	ppb	5.00	117 %	70 - 130	PASS
50)	Chlorobenzene	5.22	ppb	5.00	104 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	4.82	ppb	5.00	96 %	70 - 130	PASS
52)	o-Xylene	5.44	ppb	5.00	109 %	70 - 130	PASS
53)	Dibromochloromethane	5.63	ppb	5.00	113 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	5.50	ppb	5.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	5.45	ppb	5.00	109 %	70 - 130	PASS
56)	Styrene	5.28	ppb	5.00	106 %	70 - 130	PASS
57)	n-Propylbenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	5.07	ppb	5.00	101 %	70 - 130	PASS
59)	tert-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
60)	2-Chlorotoluene	5.17	ppb	5.00	103 %	70 - 130	PASS
62)	Bromobenzene	5.13	ppb	5.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	4.57	ppb	5.00	91 %	70 - 130	PASS
64)	sec-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	5.02	ppb	5.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	5.45	ppb	5.00	109 %	70 - 130	PASS
67)	Bromoform	4.93	ppb	5.00	99 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	5.10	ppb	5.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	4.97	ppb	5.00	99 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	5.15	ppb	5.00	103 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	5.01	ppb	5.00	100 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	4.95	ppb	5.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	5.28	ppb	5.00	106 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	4.96	ppb	5.00	99 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	4.69	ppb	5.00	94 %	70 - 130	PASS
78)	Naphthalene	4.55	ppb	5.00	91 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	4.75	ppb	5.00	95 %	70 - 130	PASS
80)	2-Methylnaphthalene	5.93	ppb	5.00	119 %	60 - 140	PASS
81)	1-Methylnaphthalene	5.61	ppb	5.00	112 %	60 - 140	PASS

* indicates Internal Standard.

9-4-14

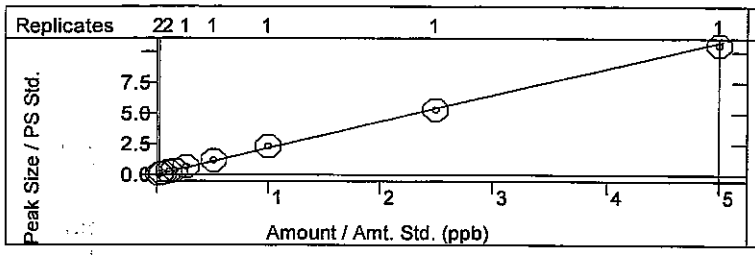
9-8-14

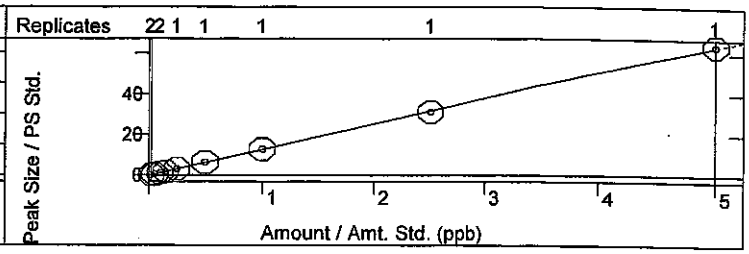
Analyst: cadg

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.06%, Coeff. Det.(r2): 0.999617
y = +2.1559x +0.0297

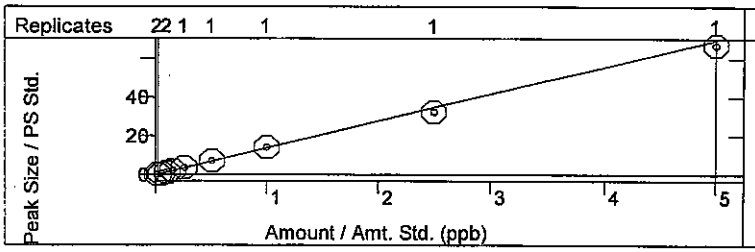
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.59%, Coeff. Det.(r2): 0.999858
y = +12.7330x -0.0949

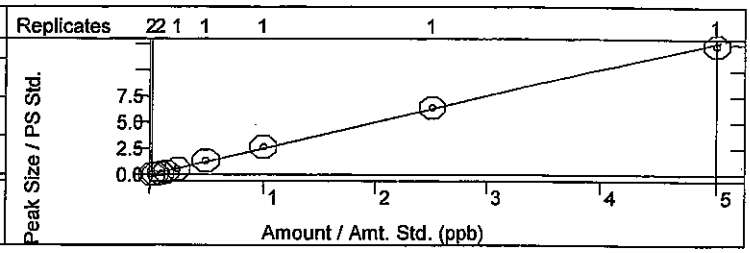




Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.999489
y = +13.9854x -0.1125

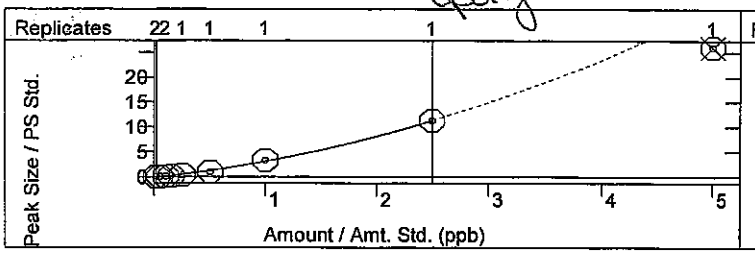
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.13%, Coeff. Det.(r2): 0.999213
y = +2.5349x -0.0404

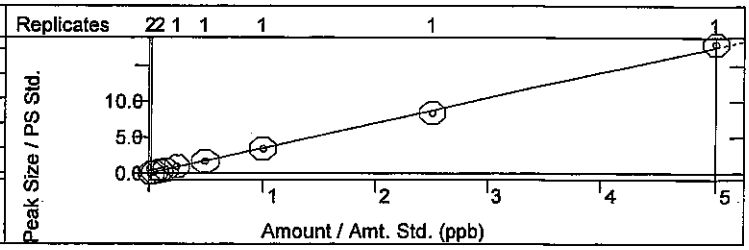




Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 46.96%, Coeff. Det.(r2): 0.998591
y = +0.8862x2 +2.3605x -0.1138

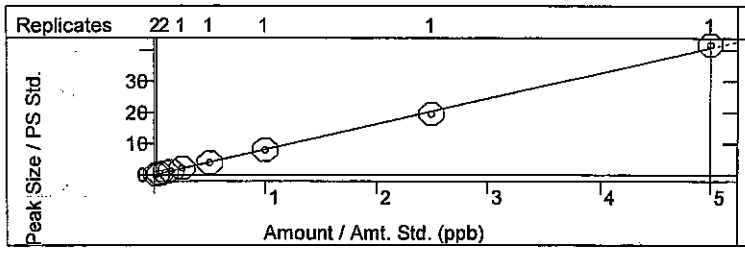
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.999047
y = +3.5126x -0.0027

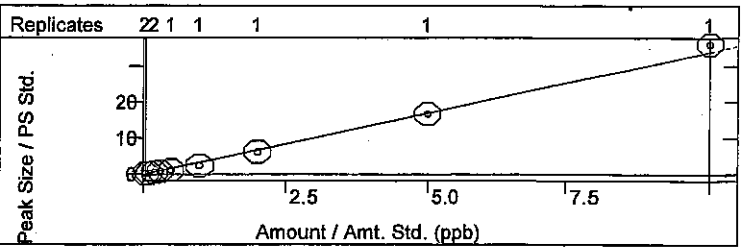




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.273%, Coeff. Det.(r2): 0.999021
y = +8.1613x -0.0048

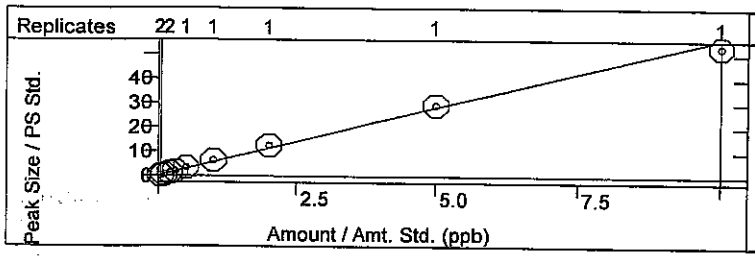
Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.99%, Coeff. Det.(r2): 0.998084
y = +3.3969x -0.0512



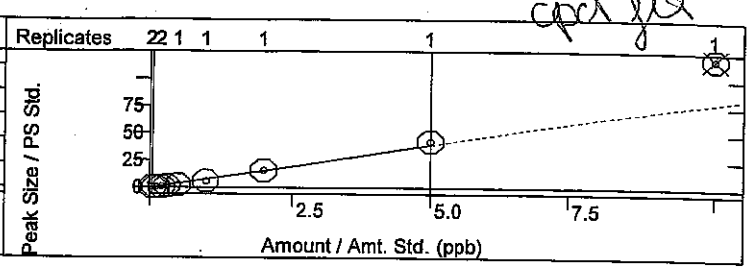


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

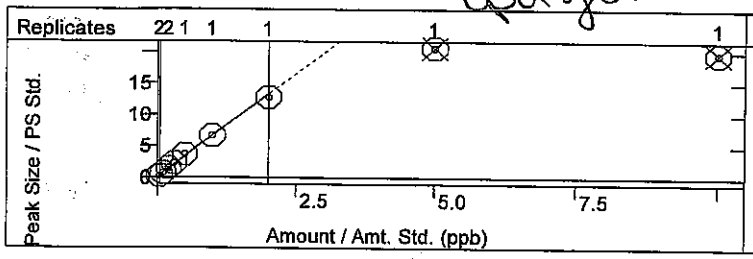
Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.895%, Coeff. Det.(r2): 0.997307
y = +5.6292x +0.1500



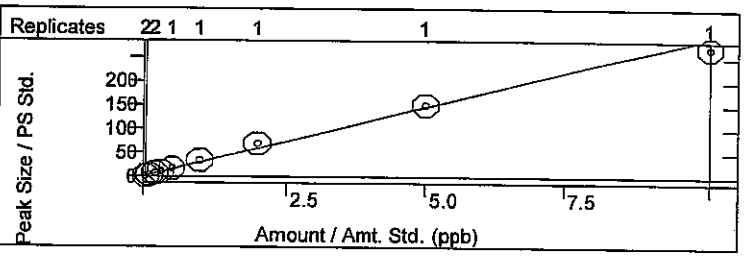
Iodomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 39.00%, Coeff. Det.(r2): 0.996600
y = +7.9543x -0.4664



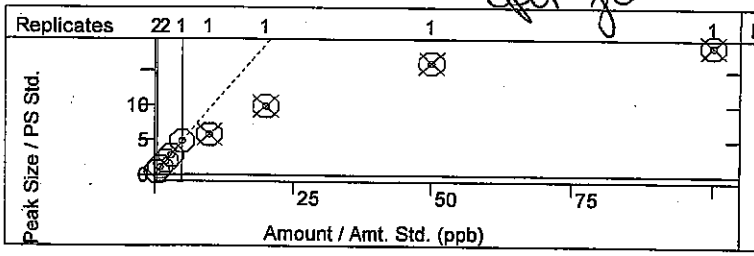
Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.403%, Coeff. Det.(r2): 0.998556
y = +6.6011x +0.0845



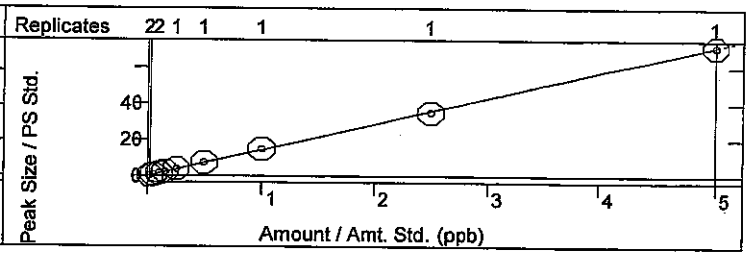
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.021%, Coeff. Det.(r2): 0.995610
y = +29.1397x +0.7611



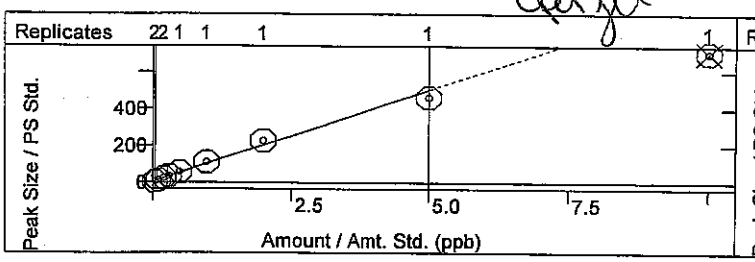
tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.017%, Coeff. Det.(r2): 0.998254
y = +0.9325x +0.0995



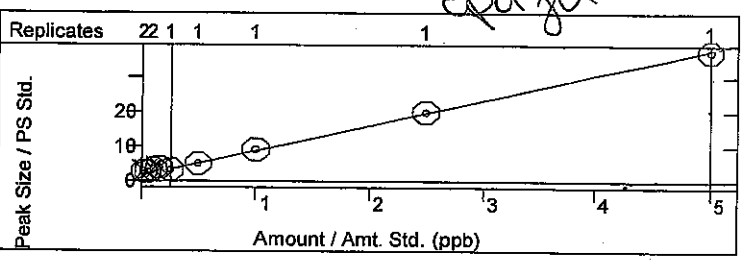
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.662%, Coeff. Det.(r2): 0.999784
y = +14.3704x +0.0615



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.175%, Coeff. Det.(r2): 0.991835
y = +100.0174x +2.2157



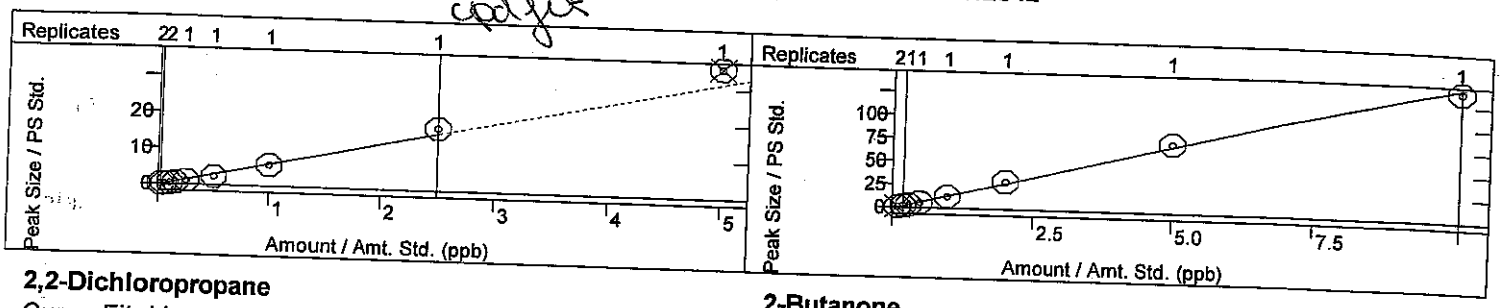
Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 22.87%, Coeff. Det.(r2): 0.999634
y = +7.2833x +1.4939



Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

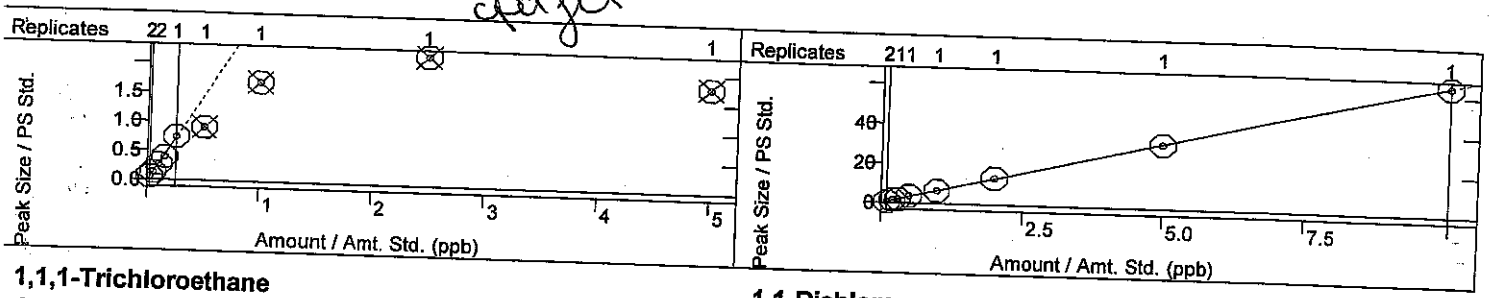
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 36.43%, Coeff. Det.(r2): 0.995416
y = +6.3254x -0.1808

Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.09%, Coeff. Det.(r2): 0.998496
y = +14.4646x -1.2642



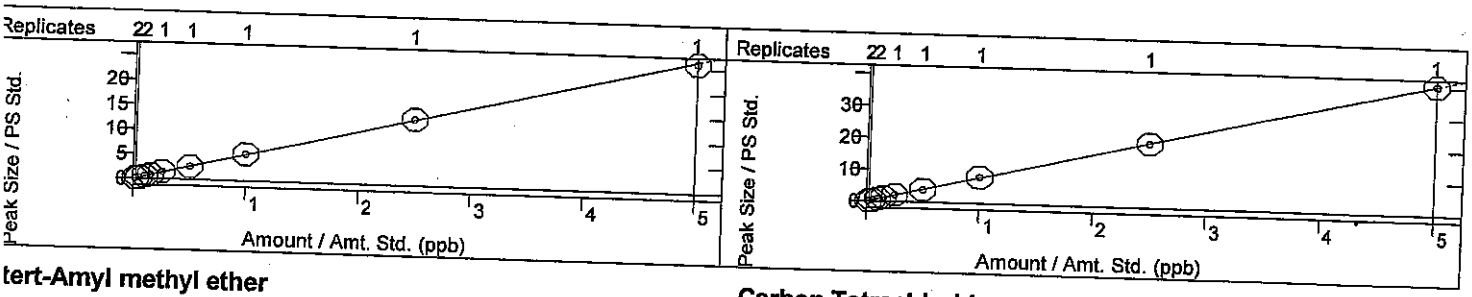
2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.022%, Coeff. Det.(r2): 0.993891
y = +2.9379x -0.0153

2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.088%, Coeff. Det.(r2): 0.999913
y = +6.5236x +0.0274



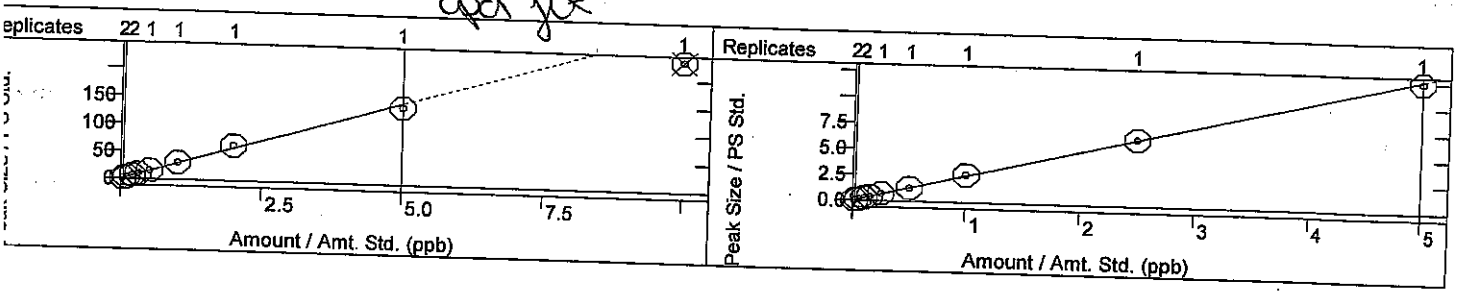
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.309%, Coeff. Det.(r2): 0.999819
y = +5.2795x +0.0161

1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.513%, Coeff. Det.(r2): 0.999952
y = +8.0895x +0.0111



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.537%, Coeff. Det.(r2): 0.997173
y = +29.1170x +0.2776

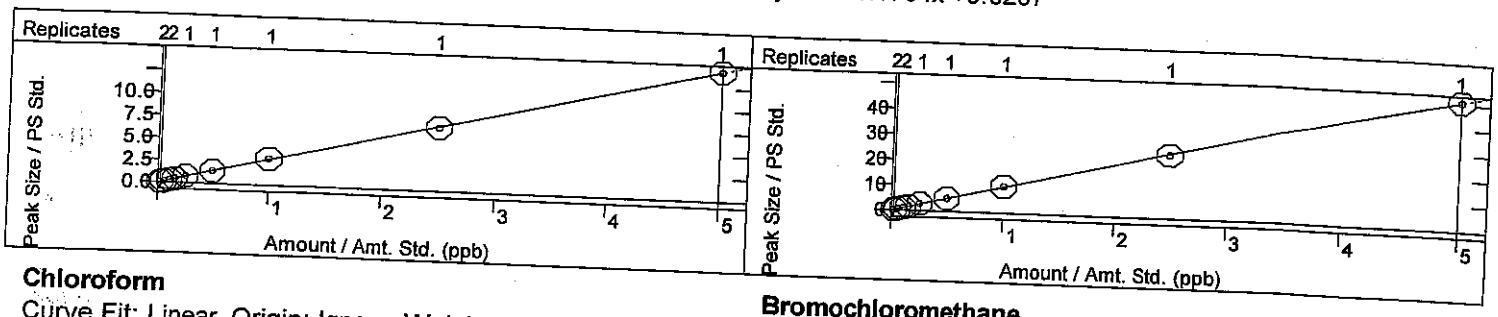
Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.398%, Coeff. Det.(r2): 0.999800
y = +2.5384x +0.0032



Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

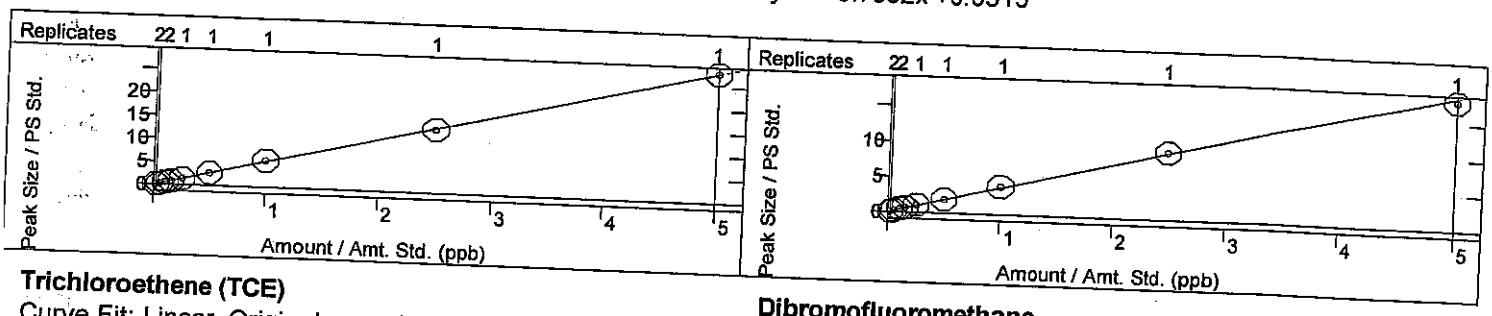
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.672%, Coeff. Det.(r2): 0.999882
y = +2.8729x +5.7204e-4

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.809%, Coeff. Det.(r2): 0.999867
y = +10.1754x +0.0237



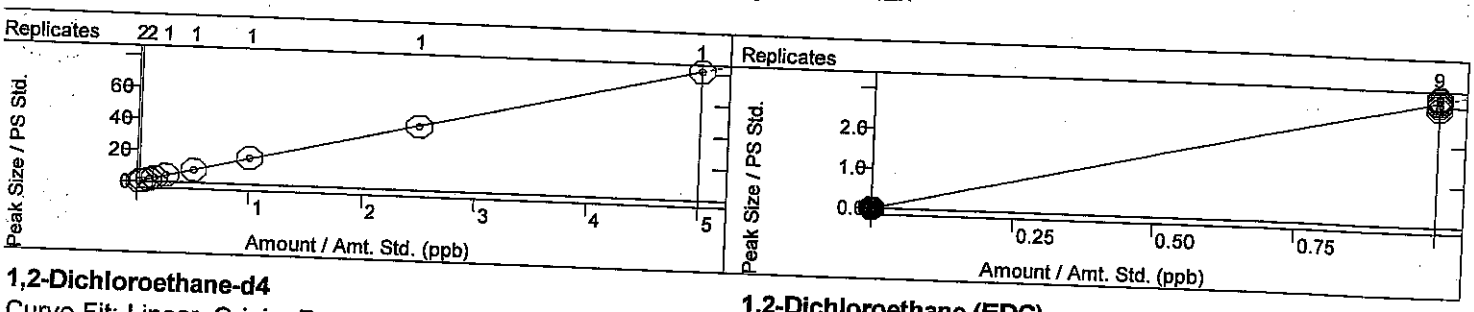
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.715%, Coeff. Det.(r2): 0.999856
y = +5.5895x -0.0168

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.68%, Coeff. Det.(r2): 0.999537
y = +3.7332x +0.0515



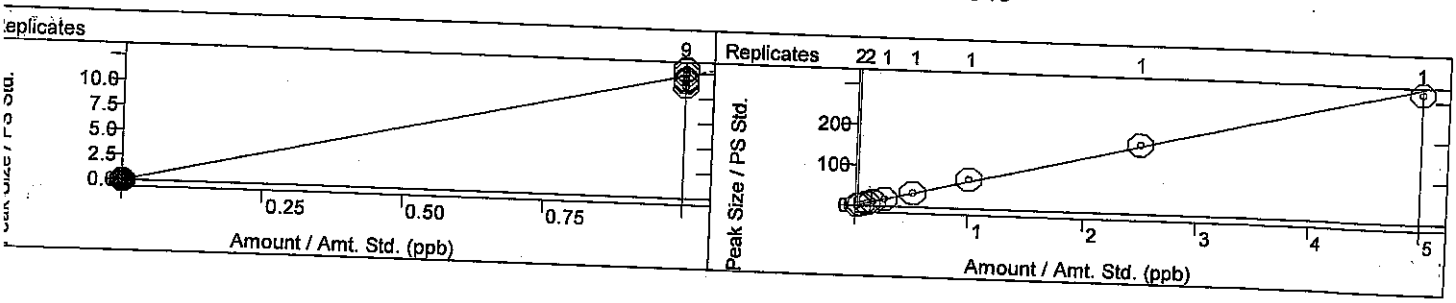
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.925%, Coeff. Det.(r2): 0.999929
y = +16.3543x +0.0517

Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.943%, Coeff. Det.(r2): 0.992359
y = +3.1142x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.250%, Coeff. Det.(r2): 0.976088
y = +12.2758x

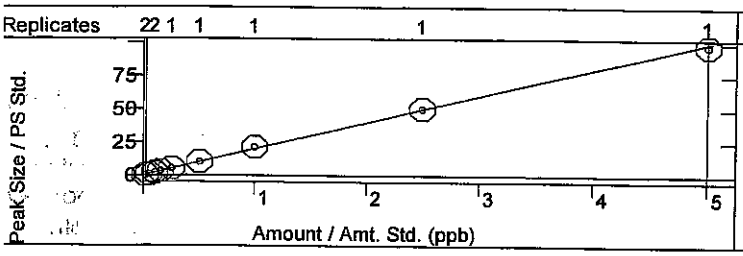
1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.850%, Coeff. Det.(r2): 0.998690
y = +66.3291x +0.2845



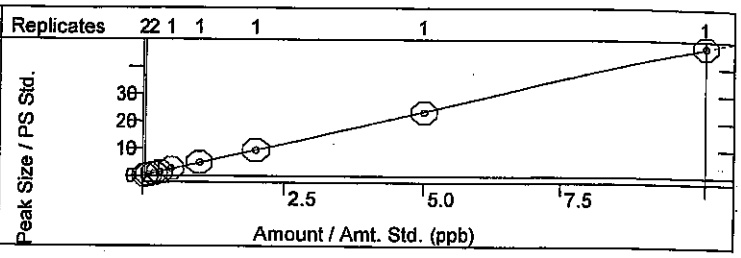
Calibration Curves Report

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

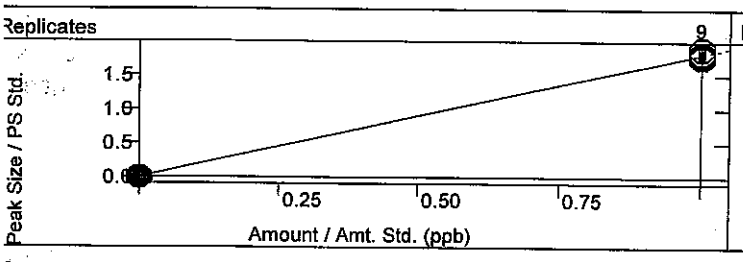
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.977%, Coeff. Det.(r2): 0.999621
y = +19.9939x +0.1213



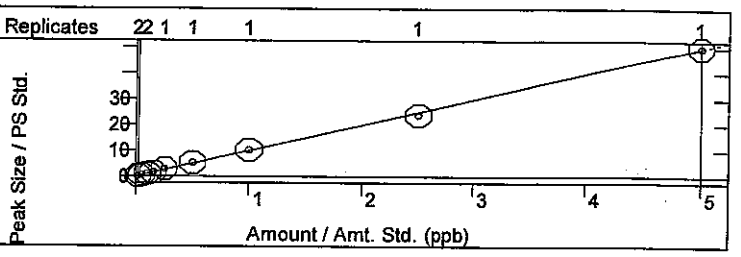
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.941%, Coeff. Det.(r2): 0.999871
y = +4.7424x +0.0354



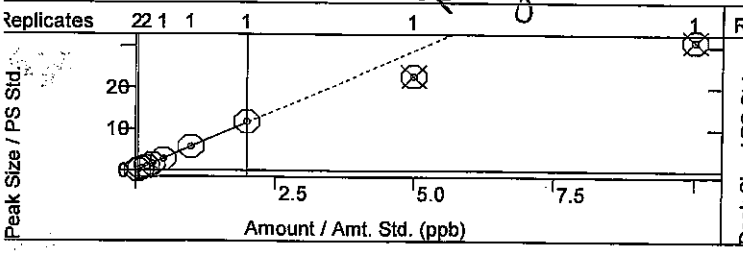
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.710%, Coeff. Det.(r2): 0.993517
y = +1.8193x



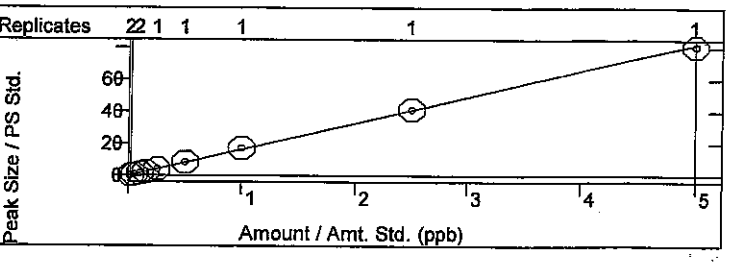
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.479%, Coeff. Det.(r2): 0.999324
y = +9.9440x +0.0709



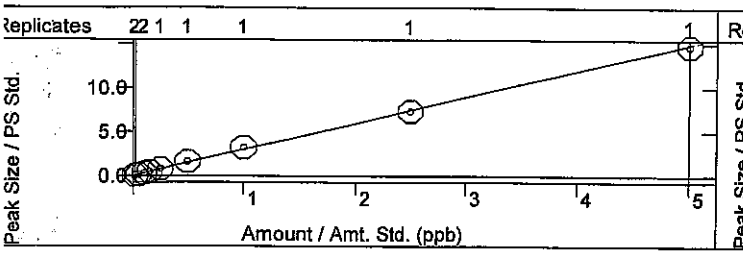
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.742%, Coeff. Det.(r2): 0.999630
y = +5.8091x -0.0778



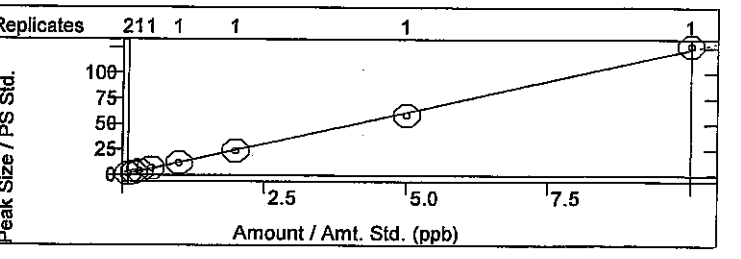
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.750%, Coeff. Det.(r2): 0.999731
y = +16.4363x -0.0725



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.597%, Coeff. Det.(r2): 0.999625
y = +2.9960x +0.0073



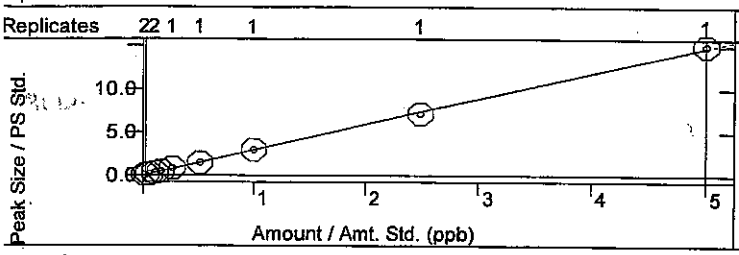
2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.341%, Coeff. Det.(r2): 0.998761
y = +12.3449x -0.0521



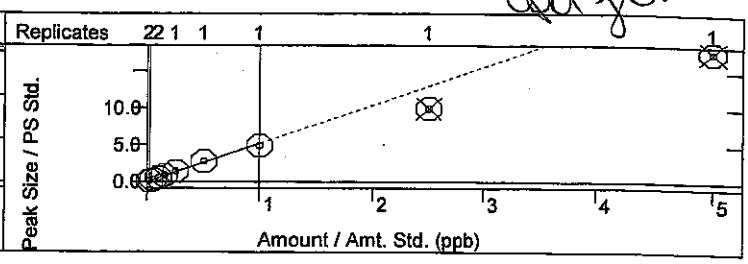
Calibration Curves Report

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

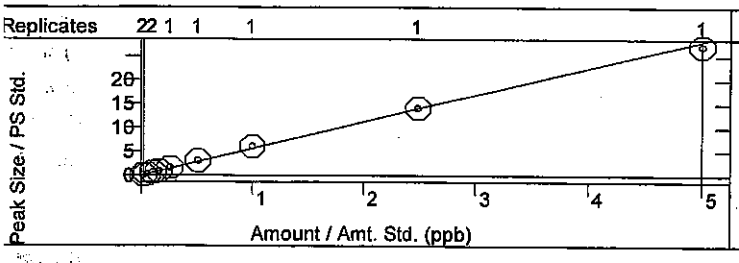
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.142%, Coeff. Det.(r2): 0.999392
y = +2.9589x +0.0094



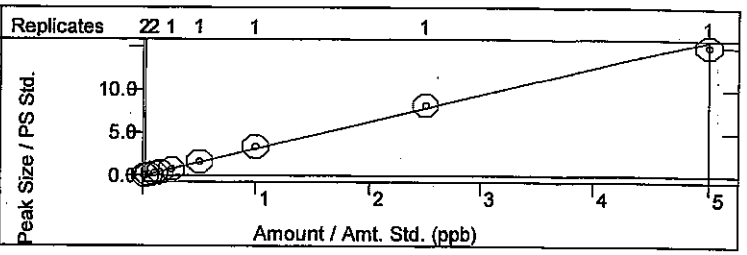
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.975%, Coeff. Det.(r2): 0.995715
y = +5.1913x +0.0239



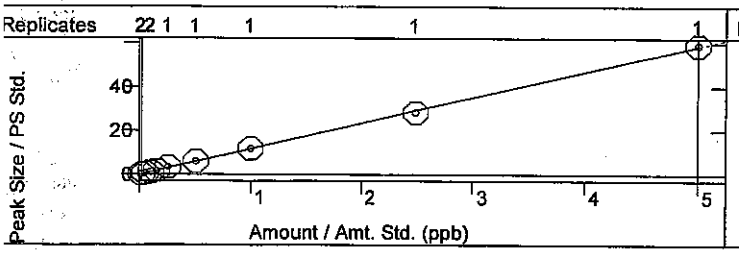
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.634%, Coeff. Det.(r2): 0.999154
y = +5.6338x +0.0224



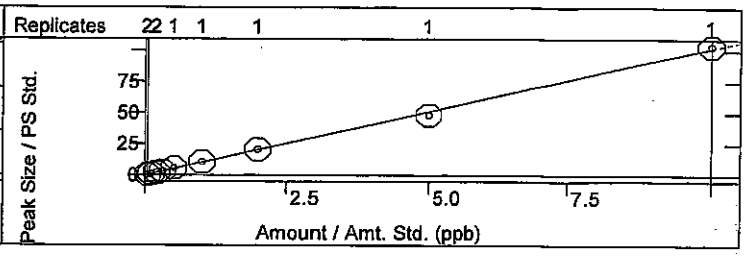
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.22%, Coeff. Det.(r2): 0.998047
y = +3.1481x -0.0258



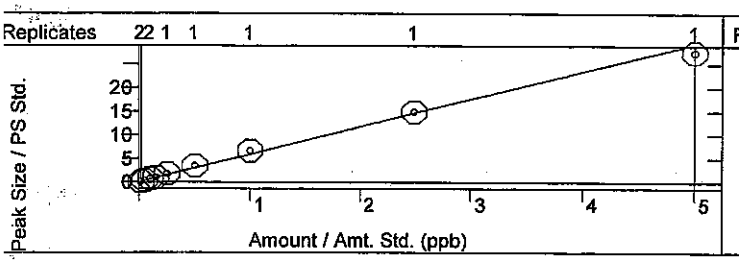
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.088%, Coeff. Det.(r2): 0.999494
y = +11.7081x +0.0625



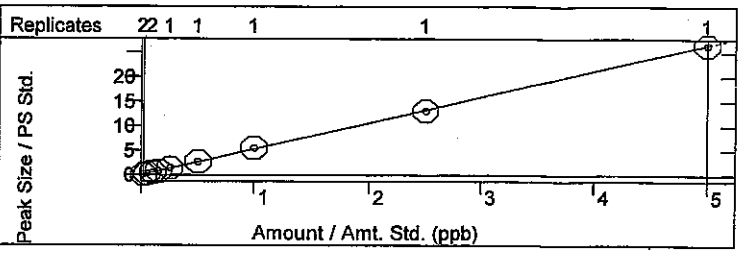
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.207%, Coeff. Det.(r2): 0.998798
y = +10.2159x +0.1080



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.581%, Coeff. Det.(r2): 0.997403
y = +5.8496x +0.0804

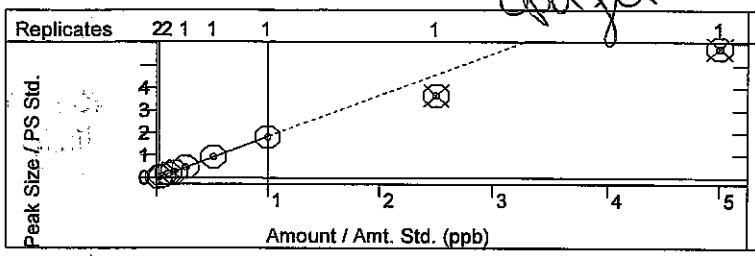


Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.693%, Coeff. Det.(r2): 0.999879
y = +5.3099x +0.0147

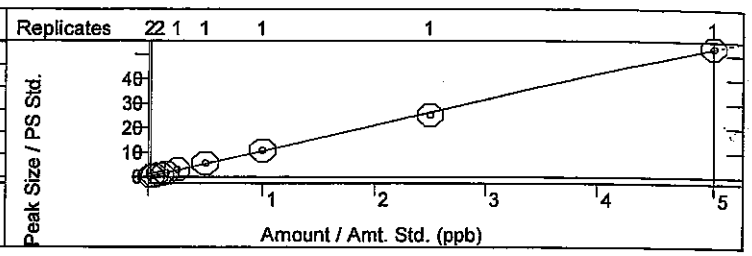


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

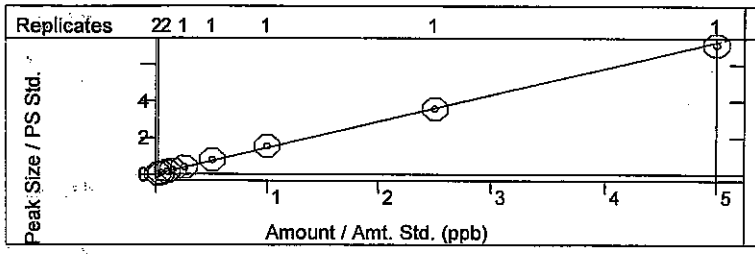
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.732%, Coeff. Det.(r2): 0.999739
y = +1.8403x -0.0045



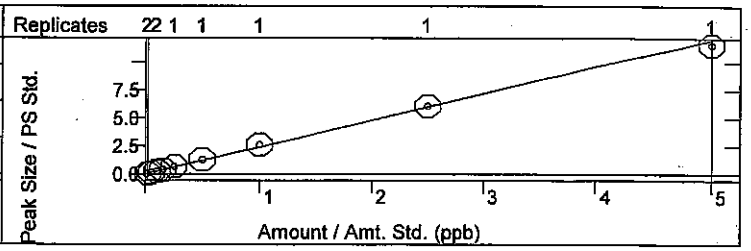
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.815%, Coeff. Det.(r2): 0.999452
y = +10.5405x +0.0557



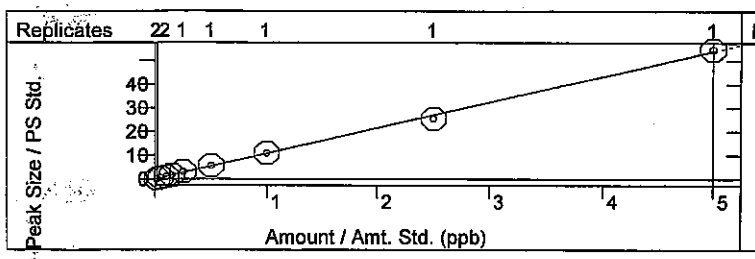
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.087%, Coeff. Det.(r2): 0.999669
y = +1.4451x +0.0081



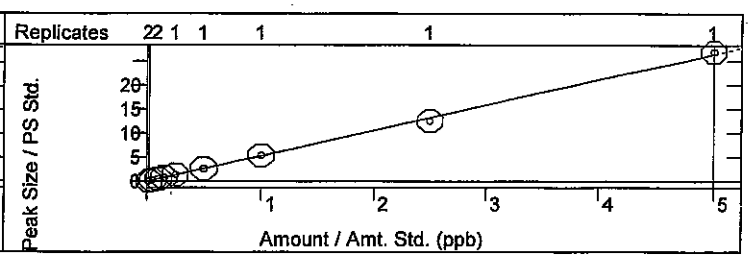
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.998961
y = +2.3996x +0.0158



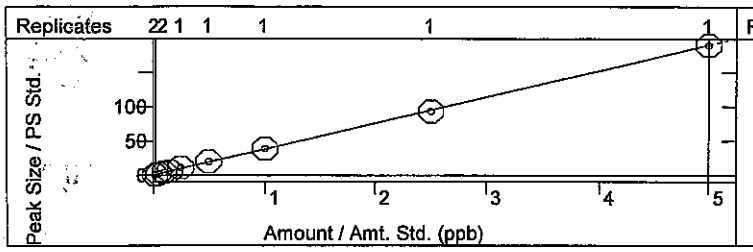
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.892%, Coeff. Det.(r2): 0.998825
y = +10.8045x +0.0550



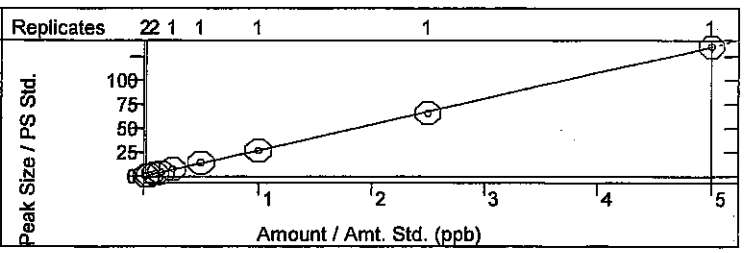
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.899%, Coeff. Det.(r2): 0.998854
y = +5.2942x +8.9042e-5



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.572%, Coeff. Det.(r2): 0.999866
y = +37.9568x +0.1982



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.263%, Coeff. Det.(r2): 0.999778
y = +27.0272x +0.1610

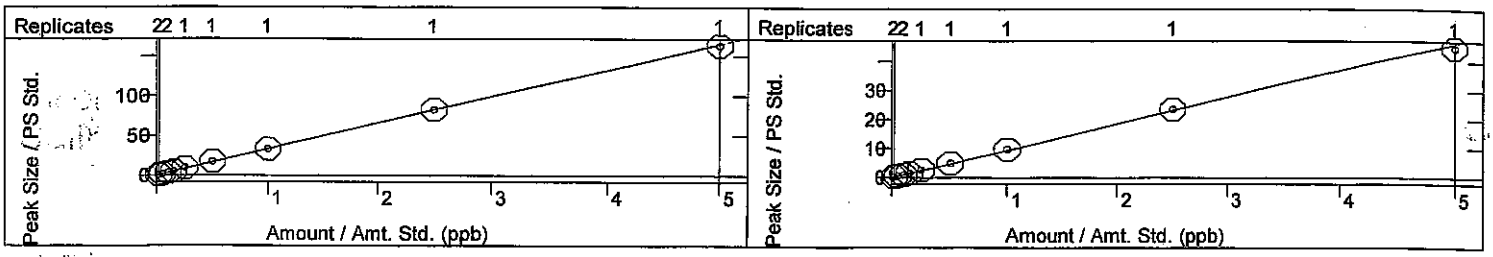


Calibration Curves Report

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

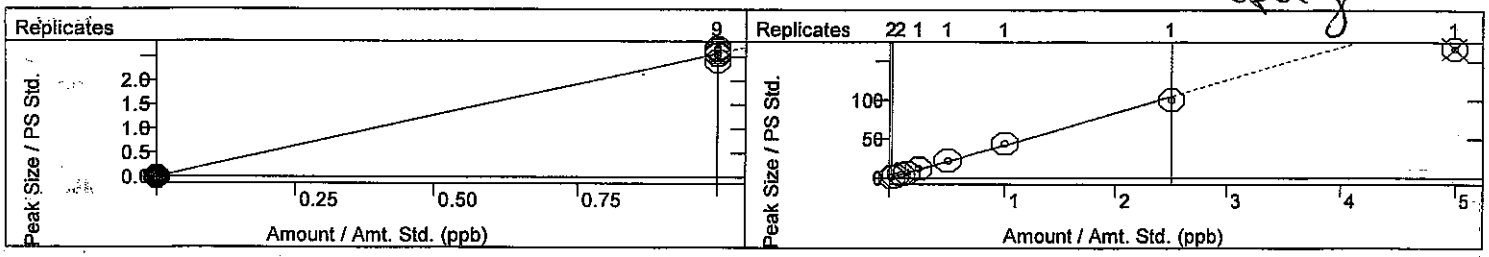
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.579%, Coeff. Det.(r2): 0.999899
y = +33.0292x +0.2445

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.757%, Coeff. Det.(r2): 0.999285
y = +9.2502x +0.0802



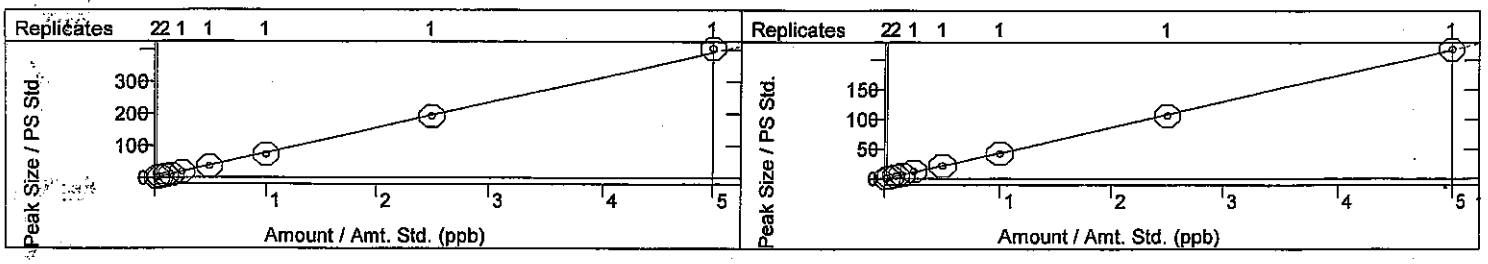
4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.121% Coeff. Det.(r2): 0.991417
y = +2.5690x

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.448%, Coeff. Det.(r2): 0.998161
y = +41.9231x +0.3665



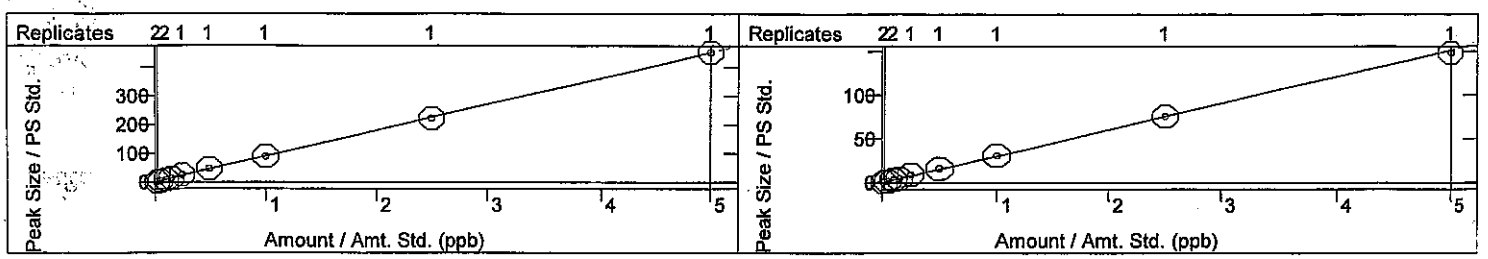
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.802%, Coeff. Det.(r2): 0.999312
y = +78.6326x -0.5475

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.172%, Coeff. Det.(r2): 0.999800
y = +43.5086x +0.1223



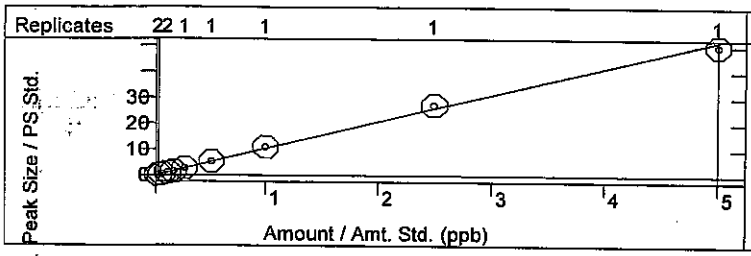
1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.063%, Coeff. Det.(r2): 0.999867
y = +90.5348x +0.2598

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.217%, Coeff. Det.(r2): 0.999760
y = +30.2770x +0.1271

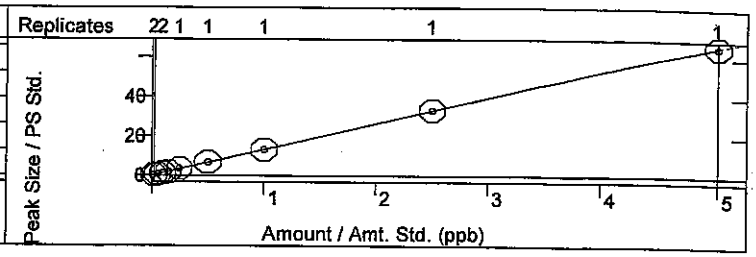


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

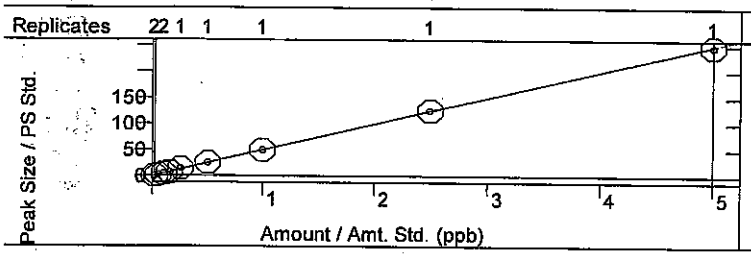
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.800%, Coeff. Det.(r2): 0.998357
y = +10.3966x +0.0185



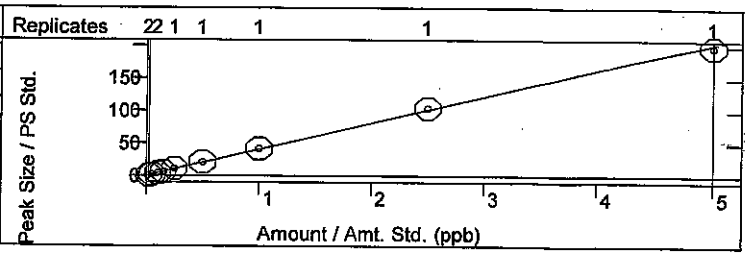
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.650%, Coeff. Det.(r2): 0.999959
y = +13.2051x +0.0167



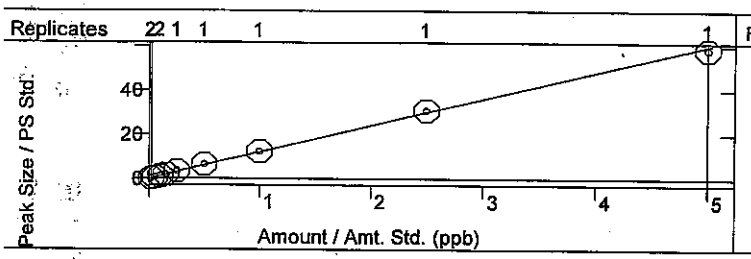
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.52%, Coeff. Det.(r2): 0.999904
y = +50.0584x -0.2464



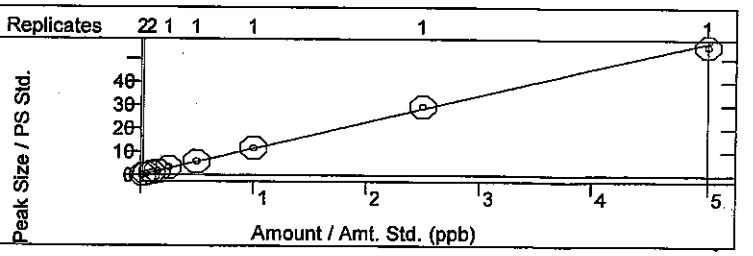
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.625%, Coeff. Det.(r2): 0.999413
y = +40.6854x +0.0721



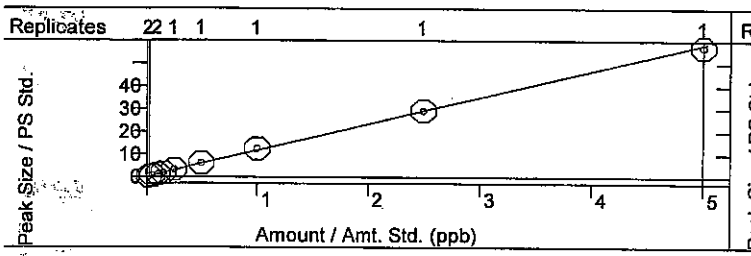
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.814%, Coeff. Det.(r2): 0.999359
y = +12.0551x +0.0695



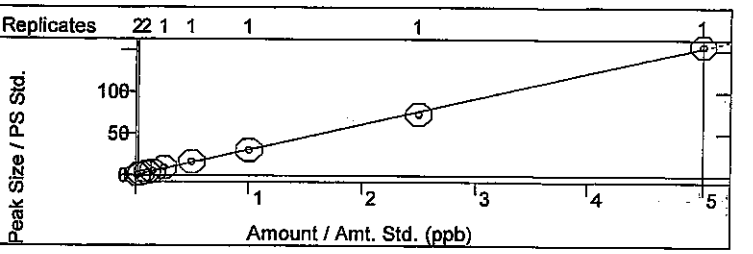
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.431%, Coeff. Det.(r2): 0.999158
y = +11.4181x +0.0101



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.445%, Coeff. Det.(r2): 0.999664
y = +11.6752x +0.0363

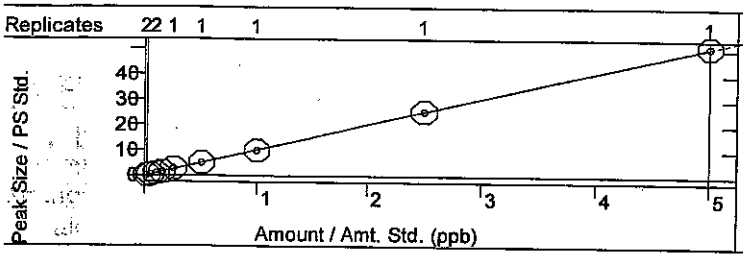


Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.988%, Coeff. Det.(r2): 0.999172
y = +30.6810x +0.2157

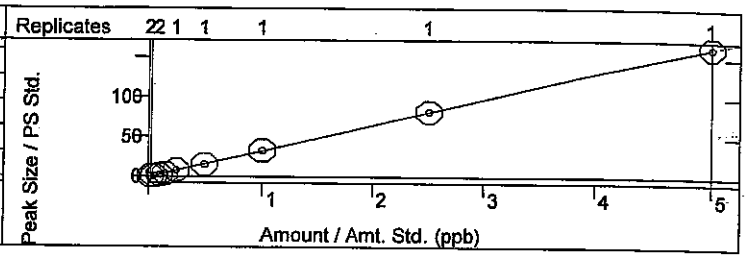


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

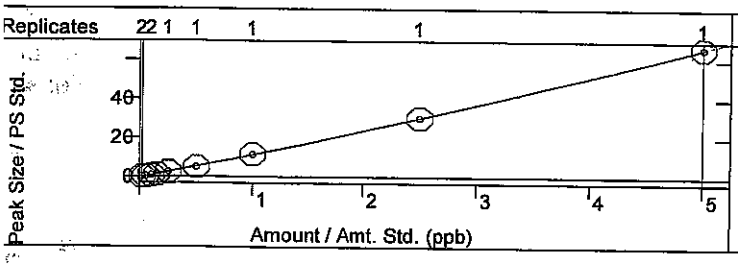
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.203%, Coeff. Det.(r2): 0.999938
y = +10.2100x -0.0514



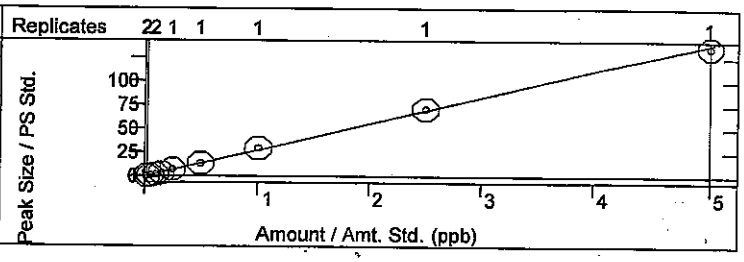
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.07%, Coeff. Det.(r2): 0.999925
y = +32.7507x -0.5342



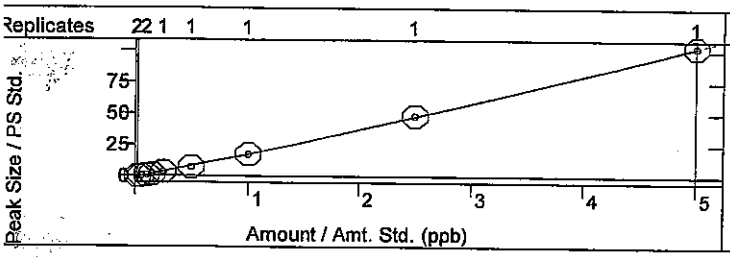
Naphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 34.14%, Coeff. Det.(r2): 0.999925
y = +0.4166x2 +11.2560x -0.3990



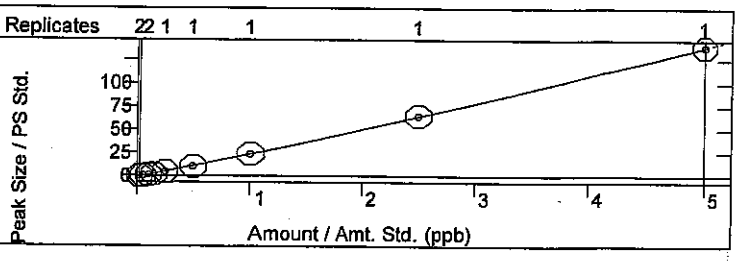
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.68%, Coeff. Det.(r2): 0.999155
y = +27.9638x -0.4212



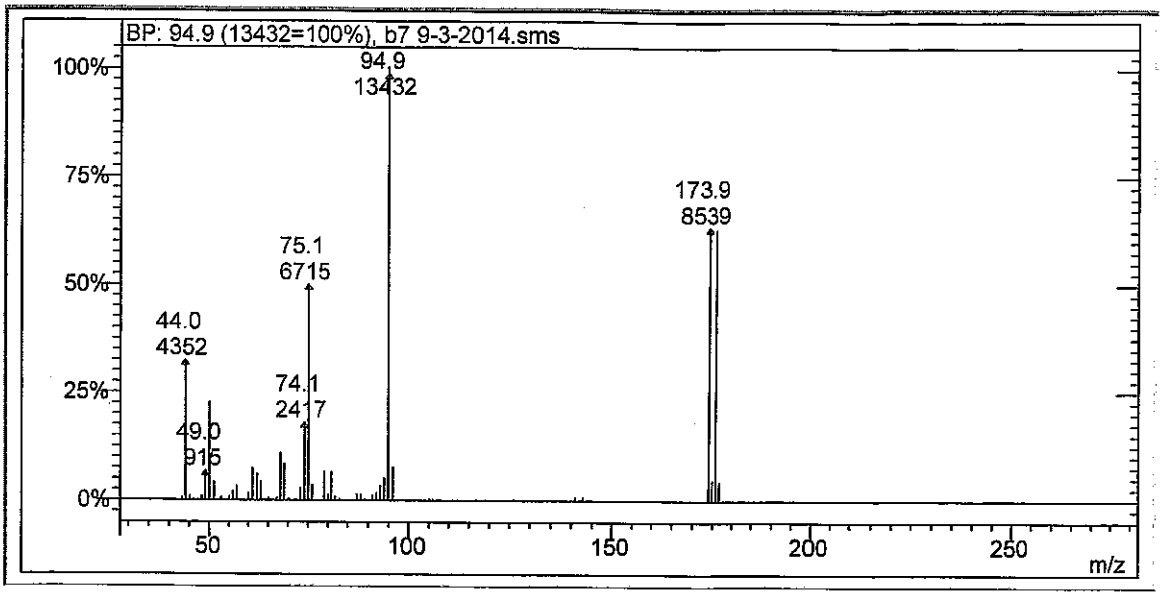
2-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 49.58%, Coeff. Det.(r2): 0.999762
y = +0.5470x2 +18.1464x -1.0873



1-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 45.07%, Coeff. Det.(r2): 0.999872
y = +0.7696x2 +24.2810x -1.2688



BFB 8260B Report



Lab File ID b7 9-3-2014.sms

Injection Date: 9/3/2014

Injection Time: 12:32

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	22.74	PASS
75	30-60% of m/z 95	49.99	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.68	PASS
173	<2% of m/z 174	0.09	PASS
174	>50% of m/z 95	63.57	PASS
175	5-9% of m/z 174	7.44	PASS
176	>95% but <101% of m/z 174	99.07	PASS
177	5-9% of m/z 176	7.01	PASS

09-4-14

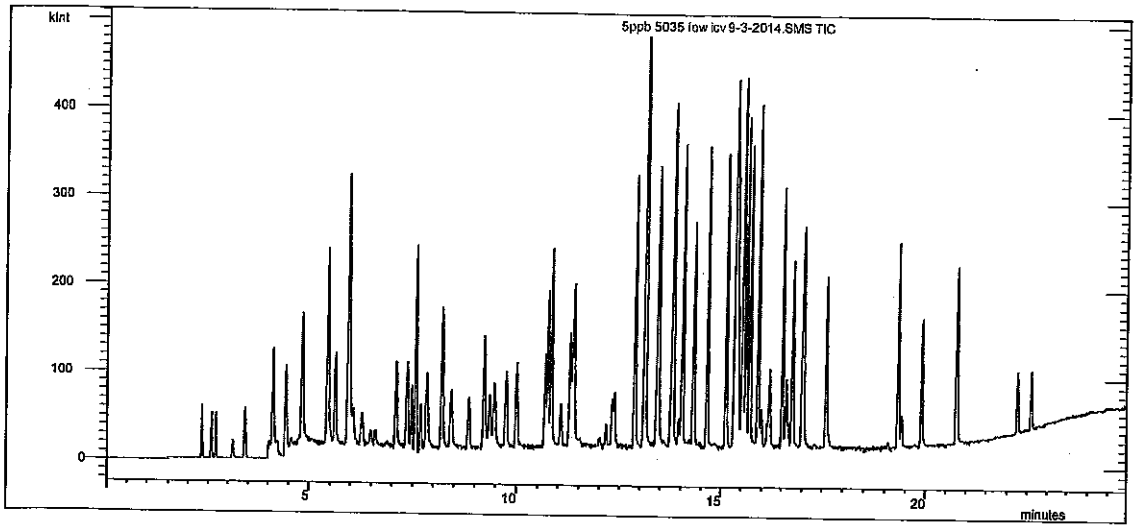
JPH-9-8-14

8260B/624 Report

Sample Name: 5ppb 5035 low icv **Operator Name:** Rene Aguilera **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\090314m 8260-5035 Low.mth **Inj. Notes:** V-54-0480 **Acquisition Date:** 9/3/2014 6:46:58 PM

Calculation Date: 9/4/2014 11:48:50 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.094	696	Identified	64075	20.000
Benzene-d5-, chloro-	13.403	1373	Identified	88987	20.000
1,4-Dichlorobenzene-d4	16.985	1752	Identified	33984	20.000
Dichlorodifluoromethane	2.336	183	Identified	44145	6.116
Chloromethane	2.579	209	Identified	203519	5.138
Vinyl chloride	2.689	221	Identified	240349	5.525
Chloroethane	3.119	267	Identified	39337	5.162
Bromomethane	3.124	268	Identified	42468	5.922
Trichlorofluoromethane	3.410	299	Identified	50341	4.489
1,1-Dichloroethene	4.114	376	Identified	121291	4.651
Acetone	4.292	395	Identified	94864	9.018
Carbon disulfide	4.430	410	Identified	219569	11.642
Iodomethane	4.557	423	Identified	143107	6.788
Methyl tert-butyl ether (MTBE)	4.827	452	Identified	233104	10.766
Isopropyl ether	5.434	517	Identified	1.128E6	11.564
tert-Butyl alcohol	5.498	524	Identified	291430	95.414
trans-1,2-DCE	5.627	538	Identified	231551	4.944
tert-Butyl ethyl ether	5.943	572	Identified	3.707E6	11.127
Methylene Chloride	5.977	576	Identified	159997	2.755
1,1-Dichloroethane	6.066	585	Identified	59972	3.531
Vinyl acetate	6.271	608	Failed	692021	16.681
2,2-Dichloropropane	6.481	630	Identified	61068	6.593
2-Butanone	6.587	641	Identified	241544	11.473
1,1,1-Trichloroethane	7.357	725	Identified	86526	5.054

SPV

09-4-14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.469	736	Identified	124609	4.781
tert-Amyl methyl ether	7.566	747	Identified	1.022E6	10.766
Carbon Tetrachloride	7.688	759	Identified	41066	5.024
cis-1,2-DCE	7.835	775	Identified	44594	4.841
Benzene	8.202	814	Identified	162206	4.929
Chloroform	8.430	839	Identified	85312	4.824
Bromochloromethane	8.847	884	Identified	67728	5.387
Trichloroethene (TCE)	9.215	924	Identified	268227	5.056
Dibromofluoromethane	9.243	927	Identified	197047	19.750
1,2-Dichloroethane-d4	9.357	939	Identified	806399	20.504
1,2-Dichloroethane (EDC)	9.463	950	Identified	1.080E6	4.998
1,2-Dichloropropane	9.741	979	Identified	336108	5.126
4-Methyl-2-pentanone	9.991	1007	Identified	242089	11.324
Toluene-d8	10.740	1088	Identified	167927	20.746
Toluene	10.822	1096	Identified	244788	5.390
2-Chloroethyl vinyl ether	11.056	1121	Identified	271596	10.776
cis-1,3-dichloropropene	11.269	1144	Identified	322310	4.495
Bromodichloromethane	11.279	1145	Identified	72426	5.384
2-Hexanone	11.327	1151	Identified	622026	11.409
Tetrachloroethene (PCE)	11.361	1154	Identified	71825	5.392
Dibromomethane	11.367	1155	Identified	125581	5.345
1,3-Dichloropropane	12.310	1256	Identified	137755	5.416
trans-1,3-dichloropropene	12.364	1262	Identified	65218	4.820
Ethylbenzene	12.850	1314	Identified	290619	5.472
mp-Xylenes	13.100	1341	Identified	497121	10.725
1,1,2-Trichloroethane	13.093	1340	Identified	158919	5.831
Chlorobenzene	13.427	1375	Identified	124752	5.225
1,2-Dibromoethane (EDB)	13.409	1374	Identified	39064	4.820
o-Xylene	13.771	1412	Identified	259980	5.438
Dibromochloromethane	13.740	1408	Identified	36901	5.627
1,1,1,2-Tetrachloroethane	13.791	1413	Identified	60164	5.503
Isopropylbenzene	14.012	1437	Identified	266957	5.451
Styrene	14.280	1465	Identified	124324	5.277
n-Propylbenzene	14.636	1503	Identified	332633	5.053
1,3,5-Trimethylbenzene	15.115	1555	Identified	238490	5.074
tert-Butylbenzene	15.325	1577	Identified	294685	5.103
2-Chlorotoluene	15.363	1581	Failed SPV	84054	5.174
4-Bromofluorobenzene	15.410	1585	Identified	84416	19.339
Bromobenzene	15.506	1596	Identified	377595	5.126
4-Chlorotoluene	15.524	1597	Identified	592052	4.570
sec-Butylbenzene	15.602	1606	Identified	381023	5.098
1,2,4-Trimethylbenzene	15.693	1615	Identified	781644	5.024
4-Isopropyltoluene	15.891	1636	Identified	284833	5.453
Bromoform	15.970	1644	Identified	87775	4.933
1,2,3-Trichloropropane	16.176	1666	Identified	114968	5.099
n-Butylbenzene	16.504	1701	Identified	414740	4.974
1,1,2,2-Tetrachloroethane	16.599	1711	Identified	358532	5.151
1,3-Dichlorobenzene	16.753	1728	Identified	105023	5.012
1,4-Dichlorobenzene	17.014	1755	Identified	98363	5.052
1,2-Dichlorobenzene	17.596	1818	Identified	99352	4.946

5pg-4-14

Operator: Rene Aguilera

Inj. Notes: V-54-0480

5ppb 5035 low icv 9-3-2014.SMS
9/4/2014 11:49

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.311	2003	Identified	282641	5.281
1,2-Dibromo-3-chloropropane	19.401	2012	Identified	84313	4.961
1,2,4-Trichlorobenzene	19.895	2065	Identified	242994	4.693
Naphthalene	20.749	2156	Identified	74284	4.554
1,2,3-Trichlorobenzene	20.767	2158	Identified	211354	4.749
2-Methylnaphthalene	22.249	2313	Identified	147441	5.927
1-Methylnaphthalene	22.603	2351	Identified	190487	5.612

****
Revision Log
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9/3/2014 7:11 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 8:18 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:48 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

Analytical Report
Lab Order: **1409136**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-001
Client Sample ID: FFOR-CF-0061
Collection Date: 09/03/14 12:04:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Aniline	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Anthracene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Benz(a)anthracene	0.13	0.21	J	mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Benzo(a)pyrene	0.071	0.21	J	mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Benzo(b)fluoranthene	0.096	0.21	J	mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Bis(2-ethylhexyl)phthalate	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Chloro-3-methylphenol	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Chloroaniline	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Chrysene	0.092	0.21	J	mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Di-n-butyl phthalate	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4-Dimethylphenol	ND	0.31		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4,6-Dinitro-2-methylphenol	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4-Dinitrophenol	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,6-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Comment: DUE 09/08/2014, LEVEL 3.

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Fluorene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Indeno(1,2,3-cd)pyrene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Isophorone	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Methylphenol	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Naphthalene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Nitrobenzene	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Phenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Pyrene	0.071	0.21	J	mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Pyridine	ND	0.52		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15111	09/05/14 3:34:58 PM
Surr: 2-Fluorophenol	59.0	21-111		%REC	1	15111	09/05/14 3:34:58 PM
Surr: Phenol-d5	58.7	23.1-117		%REC	1	15111	09/05/14 3:34:58 PM
Surr: 2,4,6-Tribromophenol	61.5	22.7-88.9		%REC	1	15111	09/05/14 3:34:58 PM
Surr: Nitrobenzene-d5	67.2	24.5-126		%REC	1	15111	09/05/14 3:34:58 PM
Surr: 2-Fluorobiphenyl	74.6	21.2-129		%REC	1	15111	09/05/14 3:34:58 PM
Surr: 4-Terphenyl-d14	70.8	39.4-107		%REC	1	15111	09/05/14 3:34:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-002
Client Sample ID: FFOR-CF-0062
Collection Date: 09/03/14 12:10:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Aniline	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Anthracene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Benz(a)anthracene	0.37	0.44	J	mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Benzo(a)pyrene	0.40	0.44	J	mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Benzo(b)fluoranthene	0.71	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Benzo(g,h,i)perylene	0.24	0.44	J	mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Carbazole	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Chrysene	0.56	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Di-n-octyl phthalate	ND	0.87		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2,4-Dichlorophenol	ND	0.87		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2,4-Dimethylphenol	ND	0.65		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15111	09/05/14 5:02:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409136

Lab ID: 1409136-003
Client Sample ID: FFOR-CF-0083
Collection Date: 09/03/14 8:28:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/08/2014, LEVEL 3.							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Acenaphthylene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Acenaphthene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Fluorene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Phenanthrene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Anthracene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Fluoranthene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Pyrene	0.0070	0.020	J	mg/Kg	1	15113	09/05/14 6:19:36 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Chrysene	0.0097	0.020	J	mg/Kg	1	15113	09/05/14 6:19:36 PM
Benzo(b)fluoranthene	0.061	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Dibenz(a,h)anthracene	0.011	0.020	J	mg/Kg	1	15113	09/05/14 6:19:36 PM
Benzo(g,h,i)perylene	0.077	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Indeno(1,2,3-cd)pyrene	0.055	0.020		mg/Kg	1	15113	09/05/14 6:19:36 PM
Surr: N-hexadecane	57.4	27-106		%REC	1	15113	09/05/14 6:19:36 PM
Surr: Benzo(e)pyrene	72.2	34.7-131		%REC	1	15113	09/05/14 6:19:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Extraction Method 3540

PREP BATCH REPORT

Reviewed By: dcm 9/5/14

Time Started: 11:00

Time Ended: 5:00

Prep Start Date: **9/4/2014 9:15:42 A**
Prep End Date:

Prep Batch ID: **15111** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15111	5<9.4	Soil			30	0	0	dcm	1	0.033	9/4/2014
LCS-15111		Soil			30	0	0	9/5/14	1	0.033	9/4/2014
1409136-001A	FFOR-CF-0061	MeOH (Soil)			30 29.8y	0	0		1	0.033	9/4/2014
1409136-001AMS		MeOH (Soil)			30 30.07	0	0		1	0.033	9/4/2014
1409136-001AMSD		MeOH (Soil)			30 29.91	0	0		1	0.033	9/4/2014
1409136-002A	FFOR-CF-0062	MeOH (Soil)			30 29.97	0	0		1	0.033	9/4/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 5<9.4	µL
ST8270-14029	8270 BNA Surrogate	SAMP	25746	Container-01 of 01	500 —	µL
ST8270-14031	8270 Internal Standard	SAMP	26282	Container-01 of 01	20 dcm 9/5	µL

Hall Environmental Analysis Laboratory

Extraction Method 3540

PREP BATCH REPORT

Prep Start Date: 9/4/2014 9:17:06 A Time Started: 11:00
Prep End Date: Time Ended: 5:00

Reviewed By: dam 9/5/14

Prep Batch ID: **15113** Prep Code: **8270_S_PRSI** Method No: **8270C** Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15113	SC 9/4	Solid			30	0	0	dam	1	0.033	9/4/2014
LCS-15113		Solid			30	0	0	9/5	1	0.033	9/4/2014
1409136-003A	FFOR-CF-0083	Soil			30.03	0	0		1	0.033	9/4/2014
1409136-003AMS		Soil			30.11	0	0		1	0.033	9/4/2014
1409136-003AMSD		Soil			30.16	0	0		1	0.033	9/4/2014

9.5.14 dam 4736

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14032	100ppm PAH LCS	LCS	26300	Container-01 of 01	100 SC 9/4	µL
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 9/5	µL
ST8310-14004	100ppm B(e)p, 450ppm N-Hex	SAMP	25595	Container-01 of 01	100 SC 9/4	µL

****

Varian Star Workstation - 8400 SampleList Fri Sep 05 14:56:16 2014

SampleList: C:\VarianWS\090514.smp

Created: Fri Sep 05 08:13:04 2014
Modified: Fri Sep 05 14:35:10 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume	
1	dftpp tune	1	below	0	1.0	
	Notes sv110-0601					
2	10ppm ll ccv	1	below	1	1.0	
	Notes sv110-0562					
3	50ppm ccv	1	below	2	1.0	
	Notes sv110-0594					
4	mb-15124	1	below	3	1.0	
	Notes TCLP					
5	lcs-15124	1	below	4	1.0	
	Notes TCLP					
6	1408f15-003a	1	below	5	1.0	
	Notes re-ext tclp					
7	1408f15-006a	1	below	6	1.0	
	Notes re-ext tclp					
8	1409046-006a	1	below	24	1.0	dam 9/13/14
	Notes r5x					
9	1409046-007a	1	below	25	1.0	
	Notes r2x					
10	lcs-15124	1	below	4	1.0	
	Notes rr					
11	1408f16-002a	1	below	7	1.0	
	Notes r20x aq					
12	lcs-15084	1	below	26	1.0	
	Notes rr					
13	mb-15111	1	below	8	1.0	
	Notes x1 s					
14	lcs-15111	1	below	9	1.0	
	Notes x1 s					
15	1409136-001a	1	below	10	1.0	
	Notes x1 s					
16	1409136-001ams	1	below	11	1.0	
	Notes x1 s					
17	1409136-001amsd	1	below	12	1.0	
	Notes x1 s					
18	1409136-002a	1	below	13	1.0	
	Notes x1 FV=2ml					
19						
20	mb-15113	1	below	14	1.0	
	Notes x1 ll soil					
21	lcs-15113	1	below	15	1.0	
	Notes x1 ll soil					
22	1409136-003a	1	below	16	1.0	
	Notes x1 ll soil					
23	1409136-003ams	1	below	17	1.0	
	Notes x1 ll soil					
24	1409136-003amsd	1	below	18	1.0	
	Notes x1 ll soil					
25	mb-15083	1	below	19	1.0	
	Notes x1 ll soil					
26	lcs-15083	1	below	20	1.0	RR OUTSIDE OF 12 hr CLOCK
	Notes x1 ll soil					
27	1408f23-001a	1	below	21	1.0	RR
	Notes x1 ll soil					
28	1408f23-001ams	1	below	22	1.0	RR
	Notes x1 ll soil					
29	1408f23-001amsd	1	below	23	1.0	
	Notes x1 ll soil					
30						

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

JC 9.5.14

Create and update a new RecalcList: c:\varianws\090514.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: 4/28/14

QA: 4.28.14

Additional Comments:

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

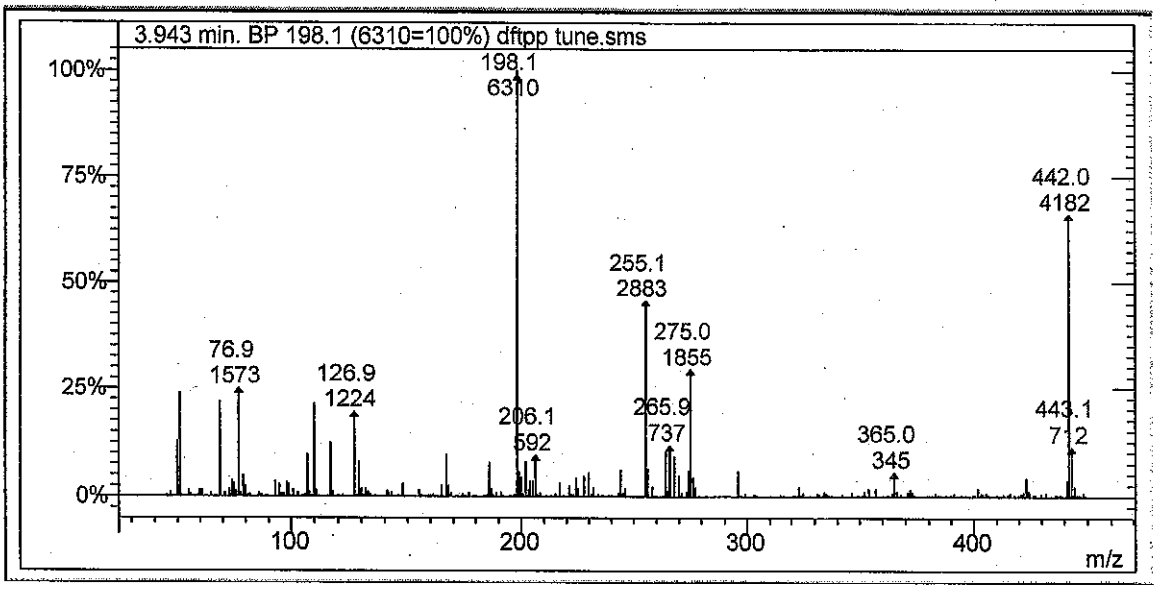
Analyst: David

QA: John Colwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/5/2014

Injection Time: 8:15

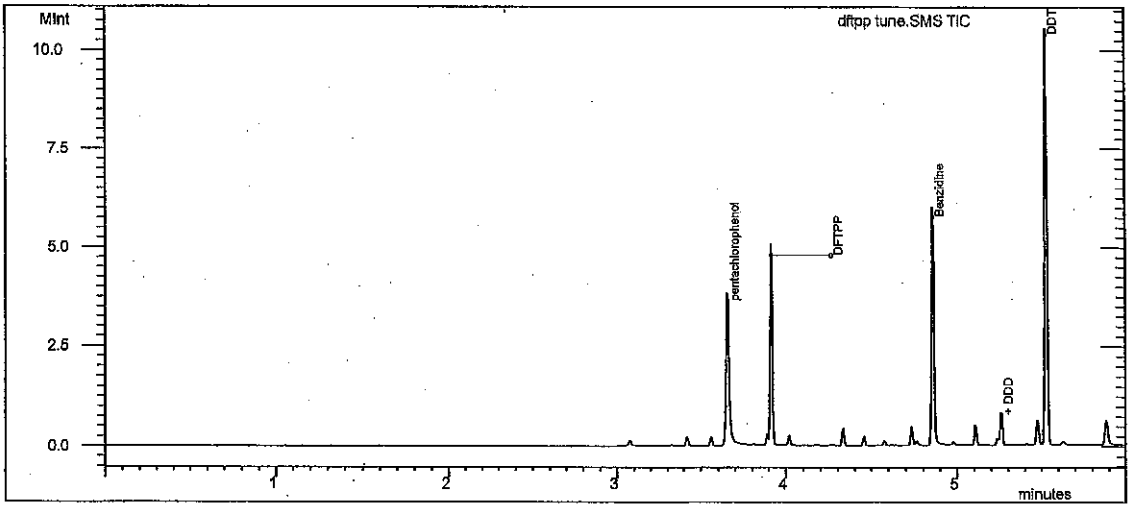
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	23.93	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	21.84	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	19.40	PASS
197	<2% of m/z 198	0.46	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.78	PASS
275	10-60% of base peak	29.40	PASS
365	>1% of base peak	5.47	PASS
441	Present and <m/z 443	32.44	PASS
442	>50% of m/z 198	66.28	PASS
443	15-24% of m/z 442	17.03	PASS

dam 9/5/14

JC 9.5.14

Degradation Report

Acquisition Date:	9/5/2014 8:15:41 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.528	2.644E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.259	205720	5
DDE	4.980	7571	6

% Degradation of DDT : = 7.465

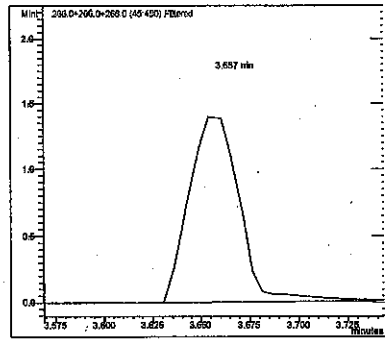
✓ dam 9/5/14

JC 9.5.14

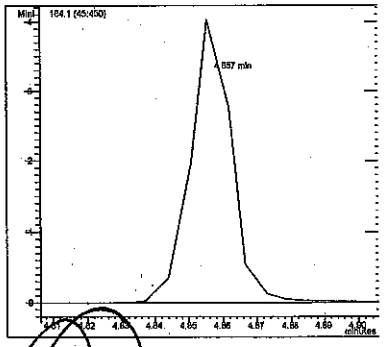
Tailing and Gaussian Factor Report

Acquisition Date:	9/5/2014 8:15:41 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.657 Area = 2.522E6



Benzidine
RT = 4.857 Area = 3.478E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.657	1.553	0.761
Benzidine	4.857	1.186	0.942

✓ / dlm 9/5/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.657	2.522E6
3	Benzidine	4.857	3.478E6

9.5.14

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll ccv.sms **Acquisition Date:** 9/5/2014 8:28

Comment: sv110-0562

SampleID: 10ppm ll ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	10.00	ng	10.00	100 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.88	ng	10.00	99 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.93		10.00	99 %	80 - 120	PASS
6)	Acenaphthylene	9.82	ng	10.00	98 %	80 - 120	PASS
8)	Acenaphthene	9.60	ng	10.00	96 %	80 - 120	PASS
9)	n-hexadecane	68.57		67.50	102 %	80 - 120	PASS
10)	Fluorene	9.90	ng	10.00	99 %	80 - 120	PASS
12)	Phenanthrene	9.69	ng	10.00	97 %	80 - 120	PASS
13)	Anthracene	10.05	ng	10.00	101 %	80 - 120	PASS
14)	Fluoranthene	9.90	ng	10.00	99 %	80 - 120	PASS
15)	Pyrene	9.31	ng	10.00	93 %	80 - 120	PASS
16)	Benz[a]anthracene	8.96	ng	10.00	90 %	80 - 120	PASS
18)	Chrysene	9.44	ng	10.00	94 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.74	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.61	ng	10.00	96 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.34		15.00	102 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.85	ng	10.00	98 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.17	ng	10.00	92 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.99	ng	10.00	100 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.44	ng	10.00	94 %	80 - 120	PASS

* indicates Internal Standard.

dhm 9/5/14

JV 9-5-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm ll c	119664	2.97	388077	4.30	172817	6.75	315976	9.04	302122	13.18	388278	15.42

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 9/5/14

JC 9.5.14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\090514\10ppm II ccv.SMS Lab Sample ID: 10ppm II ccv

Instrument ID: ELMO Date Analyzed: 9/5/2014 Time Analyzed: 08:28

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	119664	2.97	388076	4.30	172817	6.75	315976	9.04	302122	13.18	388278	15.42
UPPER LIMIT	239328	3.47	776152	4.80	345634	7.25	631952	9.54	604244	13.68	776556	15.92
LOWER LIMIT	59832	2.47	194038	3.80	86409	6.25	157988	8.54	151061	12.68	194139	14.92
EPA SAMPLE NO												
mb-15113	98617	2.97	315174	4.30	142838	6.75	283116	9.04	287613	13.18	411123	15.42
lcs-15113	94588	2.97	320359	4.29	144994	6.75	264826	9.03	256679	13.17	402172	15.41
1409136-00	100316	2.98	350550	4.30	200068	6.76	348046	9.04	321273	13.18	443324	15.42
1409136-00	101859	2.98	348961	4.30	192818	6.75	340781	9.04	288206	13.17	391660	15.41
1409136-00	114793	2.98	351753	4.30	214119	6.75	358467	9.03	353842	13.18	457694	15.41
mb-15083	151475	2.97	472704	4.30	210992	6.75	379481	9.03	375611	13.18	532572	15.41
lcs-15083	119997	2.97	388816	4.30	170935	6.75	325429	9.03	308724	13.17	440756	15.41
1408f23-00	115599	2.97	372170	4.29	154370	6.75	298144	9.03	292223	13.17	411630	15.41
1408f23-00	113724	2.97	380367	4.30	186433	6.75	320327	9.04	309223	13.17	441365	15.41
1408f23-00	112605	2.97	359420	4.30	169801	6.75	306159	9.04	295215	13.18	422927	15.41

dam 9/8/14

JQ 9.8.14

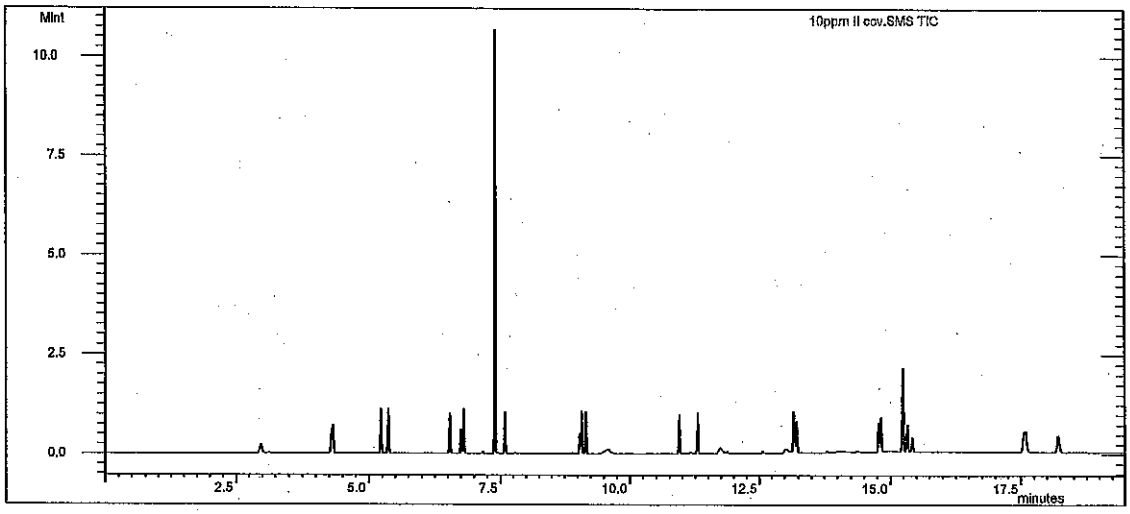
	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	9/5/2014 8:28:06 AM
Calculation Date:	9/5/2014 8:47:37 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.973	201	Identified	119664	5.000
Naphthalene-d8 (I.S)	4.298	339	Identified	388077	5.000
Acenaphthene-d10 (I.S)	6.752	594	Identified	172817	5.000
Phenanthrene-d10	9.040	832	Identified	315976	5.000
Chrysene-d12 I.S	13.184	1264	Identified	302122	5.000
Perylene-d12 I.S	15.420	1491	Identified	388278	5.000
Naphthalene	4.324	342	Identified	690776	9.996
2-Methylnaphthalene	5.225	435	Identified	457839	9.884
1-Methylnaphthalene	5.367	450	Identified	591615	9.926
Acenaphthylene	6.544	572	Identified	704234	9.822
Acenaphthene	6.805	599	Identified	813697	9.597
n-hexadecane	7.394	661	Identified	2.443E6	68.569
Fluorene	7.586	681	Identified	912454	9.897
Phenanthrene	9.077	836	Identified	648784	9.688
Anthracene	9.156	844	Identified	672254	10.052
Fluoranthene	10.940	1031	Identified	634374	9.905
Pyrene	11.297	1068	Identified	627955	9.315
Benz[a]anthracene	13.167	1262	Identified	918206	8.964
Chrysene	13.225	1268	Identified	459963	9.436
Benzo(b)fluoranthene	14.779	1427	Identified	707266	9.742
Benzo[k]fluoranthene	14.821	1431	Identified	773074	9.612
Benzo(e)pyrene	15.240	1473	Identified	1.798E6	15.339
Benzo[a]pyrene	15.323	1482	Identified	789395	9.848
Indeno[1,2,3-cd]pyrene	17.562	1709	Identified	966672	9.167

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.595	1712	Identified	740851	9.989
Benzo[g,h,i]perylene	18.214	1775	Identified	818930	9.438

```
**********************************************************
Revision Log
**********************************************************

9/5/2014 8:47 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 033114.mth'
```

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	120441	5.17	396312	6.89	192572	9.49	377865	11.74	428097	15.76	567526	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 9/5/14

JC 9-5-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\september 2014\090514\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 9/5/2014 Time Analyzed: 09:44

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	120441	5.17	396312	6.89	192572	9.49	377865	11.74	428097	15.76	567526	17.91
UPPER LIMIT	240882	5.67	792624	7.39	385144	9.99	755730	12.24	856194	16.26	1.135E6	18.41
LOWER LIMIT	60221	4.67	198156	6.39	96286	8.99	188933	11.24	214049	15.26	283763	17.41
EPA SAMPLE NO												
mb-15124	88812	5.18	304835	6.90	139614	9.50	272839	11.74	334040	15.76	418074	17.91
lcs-15124	95330	5.18	325164	6.90	142799	9.49	262285	11.74	312132	15.76	399004	17.91
1408f15-00	95923	5.18	315010	6.90	140644	9.49	258394	11.74	308774	15.76	376449	17.91
1408f15-00	89302	5.17	291584	6.89	140672	9.49	245660	11.74	301983	15.75	359329	17.91
1409046-00	95428	5.18	349620 D	6.90 D	179947	9.50	310726	11.75	354941	15.76	408216	17.91
1409046-00	87578	5.17	345193 D	6.90 D	186015	9.49	307888	11.74	335851	15.76	387366	17.91
lcs-151240	95957	5.18	312272	6.90	136497	9.50	254410	11.75	306417	15.76	363378	17.92
1408f16-00	83902	5.18	280157	6.90	134187	9.49	274592	11.74	325507	15.76	389633	17.91
lcs-15084	98402	5.18	327343	6.90	142528	9.50	269988	11.74	331028	15.76	382668	17.91
mb-15111	88586	5.18	310183	6.90	134341	9.50	273158	11.75	335708	15.77	373382	17.92
lcs-15111	94266	5.18	309764	6.90	136104	9.50	252810	11.74	301498	15.76	353641	17.91
1409136-00	93089	5.18	313100	6.90	137002	9.50	265142	11.75	312391	15.76	358309	17.91
1409136-00	92734	5.17	287216	6.89	126282	9.49	261150	11.74	298992	15.75	346056 D	17.90 D
1409136-00	91992	5.18	306783	6.90	132012	9.50	291162	11.74	320698	15.76	364084	17.91
1409136-00	86972	5.18	323372	6.90	140693	9.50	274037	11.74	300019	15.76	334995	17.91

dam 9/8/14

9-8-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/5/2014 Time: 9:44

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

high RR with

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	4.037	0.050	50.00	70.10	-40.2	40.0	FAIL	PASS
Pyridine	12.295	0.050	50.00	68.29	-36.6	40.0	PASS	PASS
2-Fluorophenol	1.197	0.050	50.00	52.18	-4.4	40.0	PASS	PASS
Phenol-d5	1.096	0.050	50.00	50.19	-0.4	40.0	PASS	PASS
Phenol	1.191	0.050	50.00	48.58	2.8	20.0	PASS	PASS
Aniline	3.293	0.050	50.00	40.23	19.5	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.012	0.050	50.00	50.14	-0.3	40.0	PASS	PASS
2-Chlorophenol	1.165	0.050	50.00	48.71	2.6	40.0	PASS	PASS
1,3-Dichlorobenzene	1.548	0.050	50.00	51.43	-2.9	40.0	PASS	PASS
1,4-Dichlorobenzene	1.512	0.050	50.00	53.01	-6.0	20.0	PASS	PASS
Benzyl alcohol	1.138	0.050	50.00	50.84	-1.7	40.0	PASS	PASS
1,2-Dichlorobenzene	1.478	0.050	50.00	52.60	-5.2	40.0	PASS	PASS
2-Methylphenol	0.986	0.050	50.00	50.50	-1.0	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.358	0.050	50.00	48.28	3.4	40.0	PASS	PASS
3+4-Methylphenol	1.149	0.050	50.00	47.08	5.8	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.417	0.050	50.00	48.27	3.5	40.0	PASS	PASS
Hexachloroethane	4.817	0.050	50.00	51.99	-4.0	40.0	PASS	PASS
Nitrobenzene-d5	0.308	0.050	50.00	50.10	-0.2	40.0	PASS	PASS
Nitrobenzene	0.329	0.050	50.00	52.19	-4.4	40.0	PASS	PASS
Isophorone	0.654	0.050	50.00	55.88	-11.8	40.0	PASS	PASS
2-Nitrophenol	0.314	0.050	50.00	50.60	-1.2	20.0	PASS	PASS
2,4-Dimethylphenol	0.374	0.050	50.00	51.24	-2.5	40.0	PASS	PASS
Benzoic acid	2.094	0.050	50.00	48.86	2.3	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.387	0.050	50.00	53.42	-6.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.358	0.050	50.00	50.70	-1.4	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.330	0.050	50.00	50.54	-1.1	40.0	PASS	PASS
Naphthalene	0.880	0.050	50.00	53.03	-6.1	40.0	PASS	PASS
4-Chloroaniline	0.375	0.050	50.00	48.51	3.0	40.0	PASS	PASS
Hexachlorobutadiene	0.654	0.050	50.00	49.16	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.436	0.050	50.00	52.03	-4.1	20.0	PASS	PASS
2-Methylnaphthalene	0.251	0.050	50.00	49.79	0.4	40.0	PASS	PASS
1-Methylnaphthalene	0.249	0.050	50.00	48.48	3.0	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.408	0.050	50.00	40.67	18.7	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.336	0.050	50.00	46.95	6.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.289	0.050	50.00	43.57	12.9	40.0	PASS	PASS
2-Fluorobiphenyl	1.455	0.050	50.00	47.46	5.1	40.0	PASS	PASS

dlm 9/5/14

JC 9-5-14

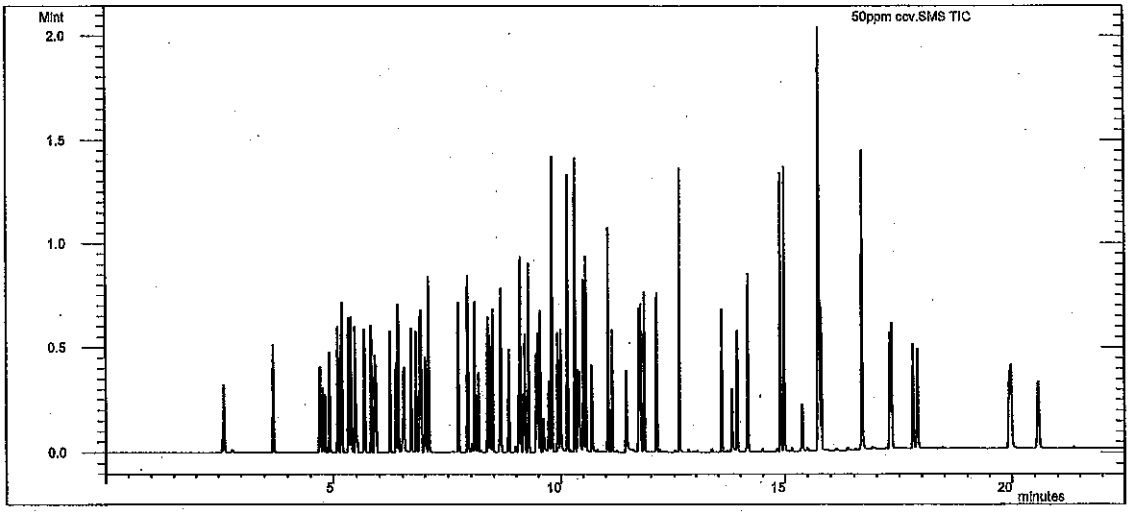
Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.505	0.050	50.00	48.09	3.8	40.0	PASS	PASS
2-Nitroaniline	1.092	0.050	50.00	48.95	2.1	40.0	PASS	PASS
Dimethyl phthalate	2.890	0.050	50.00	50.20	-0.4	40.0	PASS	PASS
2,6-Dinitrotoluene	0.681	0.050	50.00	49.36	1.3	40.0	PASS	PASS
Acenaphthylene	1.866	0.050	50.00	47.87	4.3	40.0	PASS	PASS
3-Nitroaniline	1.105	0.050	50.00	50.73	-1.5	40.0	PASS	PASS
Acenaphthene	1.241	0.050	50.00	49.10	1.8	20.0	PASS	PASS
2,4-Dinitrophenol	2.298	0.050	50.00	55.74	-11.5	40.0	PASS	PASS
4-Nitrophenol	0.218	0.050	50.00	56.16	-12.3	40.0	PASS	PASS
Dibenzofuran	0.825	0.050	50.00	44.89	10.2	40.0	PASS	PASS
2,4-Dinitrotoluene	0.372	0.050	50.00	50.46	-0.9	40.0	PASS	PASS
Diethyl phthalate	2.530	0.050	50.00	50.33	-0.7	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.713	0.050	50.00	42.66	14.7	40.0	PASS	PASS
Fluorene	2.441	0.050	50.00	46.94	6.1	40.0	PASS	PASS
4-Nitroaniline	1.948	0.050	50.00	50.42	-0.8	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.592	0.050	50.00	64.09	-28.2	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.677	0.050	50.00	50.78	-1.6	20.0	PASS	PASS
Azobenzene	0.957	0.050	50.00	51.03	-2.1	40.0	PASS	PASS
2,4,6-Tribromophenol	1.685	0.050	50.00	50.84	-1.7	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.523	0.050	50.00	51.20	-2.4	40.0	PASS	PASS
Hexachlorobenzene	0.531	0.050	50.00	48.00	4.0	40.0	PASS	PASS
Pentachlorophenol	1.523	0.050	50.00	53.65	-7.3	20.0	PASS	PASS
Phenanthrene	1.031	0.050	50.00	53.62	-7.2	40.0	PASS	PASS
Anthracene	1.063	0.050	50.00	54.60	-9.2	40.0	PASS	PASS
Carbazole	0.953	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.213	0.050	50.00	55.32	-10.6	40.0	PASS	PASS
Fluoranthene	0.912	0.050	50.00	48.97	2.1	20.0	PASS	PASS
Benzidine	0.408	0.050	50.00	37.29	25.4	40.0	PASS	PASS
Pyrene	0.804	0.050	50.00	48.40	3.2	40.0	PASS	PASS
4-Terphenyl-d14	1.209	0.050	50.00	50.37	-0.7	40.0	PASS	PASS
Butyl benzyl phthalate	0.995	0.050	50.00	52.44	-4.9	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.904	0.050	50.00	49.39	1.2	40.0	PASS	PASS
Benz[a]anthracene	1.593	0.050	50.00	44.11	11.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.950	0.050	50.00	40.10	19.8	40.0	PASS	PASS
Chrysene	1.919	0.050	50.00	46.37	7.3	40.0	PASS	PASS
Di-n-octyl phthalate	2.537	0.050	50.00	53.20	-6.4	20.0	PASS	PASS
Benzo(b)fluoranthene	1.370	0.050	50.00	47.38	5.2	40.0	PASS	PASS
Benzo[k]fluoranthene	1.411	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Benzo[a]pyrene	1.366	0.050	50.00	49.94	0.1	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.877	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.726	0.050	50.00	49.97	0.1	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.845	0.050	50.00	49.74	0.5	40.0	PASS	PASS

dam 9/5/14

JC 9-5-14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/5/2014 9:44:11 AM
Calculation Date:	9/5/2014 10:06:42 AM				



dlm 9/5/14

SC 9.6.14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.173	439	Identified	120441	40.000
Naphthalene-d8 (I.S)	6.891	619	Identified	396312	40.000
Acenaphthene-d10 (I.S)	9.491	894	Identified	192572	40.000
Phenanthrene-d10	11.737	1129	Identified	377865	40.000
Chrysene-d12 I.S	15.756	1553	Identified	428097	40.000
Perylene-d12 I.S	17.906	1777	Identified	567526	40.000
N-nitrosodimethylamine	2.588	163	Identified	607714	70.105
Pyridine	2.632	168	Identified	1.851E6	68.294
2-Fluorophenol	3.698	282	Identified	180222	52.182
Phenol-d5	4.701	389	Identified	164983	50.188
Phenol	4.717	391	Identified	179378	48.576
Aniline	4.772	397	Identified	495780	40.229
Bis(2-chloroethyl)ether	4.824	402	Identified	302876	50.137
2-Chlorophenol	4.916	412	Identified	175450	48.709
1,3-Dichlorobenzene	5.101	431	Identified	232995	51.434
1,4-Dichlorobenzene	5.193	441	Identified	227569	53.008
Benzyl alcohol	5.336	456	Identified	171352	50.835
1,2-Dichlorobenzene	5.388	461	Identified	222511	52.595
2-Methylphenol	5.475	470	Identified	148382	50.504
Bis(2-chloroisopropyl)ether	5.493	472	Identified	204441	48.285
3+4-Methylphenol	5.680	492	Identified	172960	47.081
N-Nitrosodi-n-propylamine	5.671	491	Identified	514455	48.267
Hexachloroethane	5.825	507	Identified	725152	51.987
Nitrobenzene-d5	5.900	515	Identified	152685	50.098

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.927	518	Identified	163202	52.187
Isophorone	6.230	550	Identified	324093	55.882
2-Nitrophenol	6.361	564	Identified	155572	50.598
2,4-Dimethylphenol	6.406	568	Identified	185139	51.244
Benzoic acid	6.511	579	Identified	1.037E6	48.863
Bis(2-chloroethoxy)methane	6.533	582	Identified	191616	53.420
2,4-Dichlorophenol	6.693	599	Identified	177526	50.702
1,2,4-Trichlorobenzene	6.808	610	Identified	163646	50.538
Naphthalene	6.922	622	Identified	436108	53.033
4-Chloroaniline	7.010	631	Identified	185866	48.514
Hexachlorobutadiene	7.083	639	Identified	323865	49.163
4-Chloro-3-methylphenol	7.723	708	Identified	216040	52.029
2-Methylnaphthalene	7.926	729	Identified	124208	49.793
1-Methylnaphthalene	8.075	745	Identified	123171	48.482
Hexachlorocyclopentadiene	8.151	753	Identified	202315	40.673
2,4,6-Trichlorophenol	8.357	775	Identified	80998	46.947
2,4,5-Trichlorophenol	8.415	780	Identified	69676	43.568
2-Fluorobiphenyl	8.474	787	Identified	350262	47.463
2-Chloronaphthalene	8.655	806	Identified	362221	48.094
2-Nitroaniline	8.834	825	Identified	262801	48.946
Dimethyl phthalate	9.090	852	Identified	695602	50.202
2,6-Dinitrotoluene	9.195	863	Identified	163970	49.355
Acenaphthylene	9.278	871	Identified	449063	47.871
3-Nitroaniline	9.455	890	Identified	265878	50.728
Acenaphthene	9.540	899	Identified	298612	49.098
2,4-Dinitrophenol	9.609	906	Identified	553187	55.736
4-Nitrophenol	9.736	919	Identified	52376	56.163
Dibenzofuran	9.800	926	Identified	198615	44.892
2,4-Dinitrotoluene	9.802	926	Identified	89610	50.462
Diethyl phthalate	10.147	962	Identified	608997	50.330
4-Chlorophenyl phenyl ether	10.314	979	Identified	171555	42.659
Fluorene	10.317	980	Identified	587647	46.941
4-Nitroaniline	10.383	987	Identified	468980	50.418
4,6-Dinitro-2-methylphenol	10.416	990	Identified	752098	64.090
N-Nitrosodiphenylamine	10.505	999	Identified	319599	50.781
Azobenzene	10.556	1004	Identified	452015	51.027
2,4,6-Tribromophenol	10.689	1018	Identified	795701	50.837
4-Bromophenyl phenyl ether	11.054	1057	Identified	246857	51.201
Hexachlorobenzene	11.146	1067	Identified	250689	47.999
Pentachlorophenol	11.460	1100	Identified	719490	53.652
Phenanthrene	11.773	1133	Identified	487000	53.616
Anthracene	11.851	1141	Identified	502301	54.601
Carbazole	12.116	1169	Identified	450282	50.229
Di-n-butyl phthalate	12.617	1222	Identified	1.045E6	55.318
Fluoranthene	13.579	1324	Identified	430947	48.973
Benzidine	13.811	1349	Identified	218340	37.285
Pyrene	13.927	1361	Identified	430387	48.405
4-Terphenyl-d14	14.159	1385	Identified	647223	50.371
Butyl benzyl phthalate	14.898	1463	Identified	532303	52.442
3,3'-Dichlorobenzidine	15.724	1550	Identified	1.019E6	49.393

Lan Star Workstation - 6400 SampleList Mon Apr 28 10:------ -

pleList: C:\VarianWS\042514crv.smp

ated: Fri Apr 25 09:05:43 2014
lfied: Fri Apr 25 15:09:46 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

JV
4.28.14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s

sate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

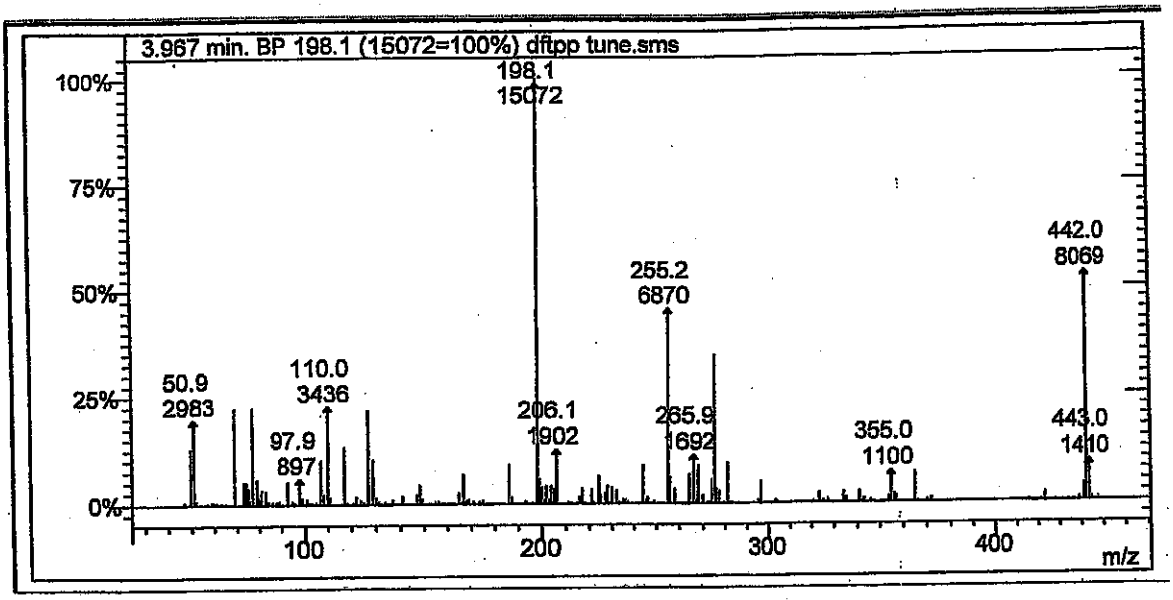
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

dan 4/28/14

JV 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

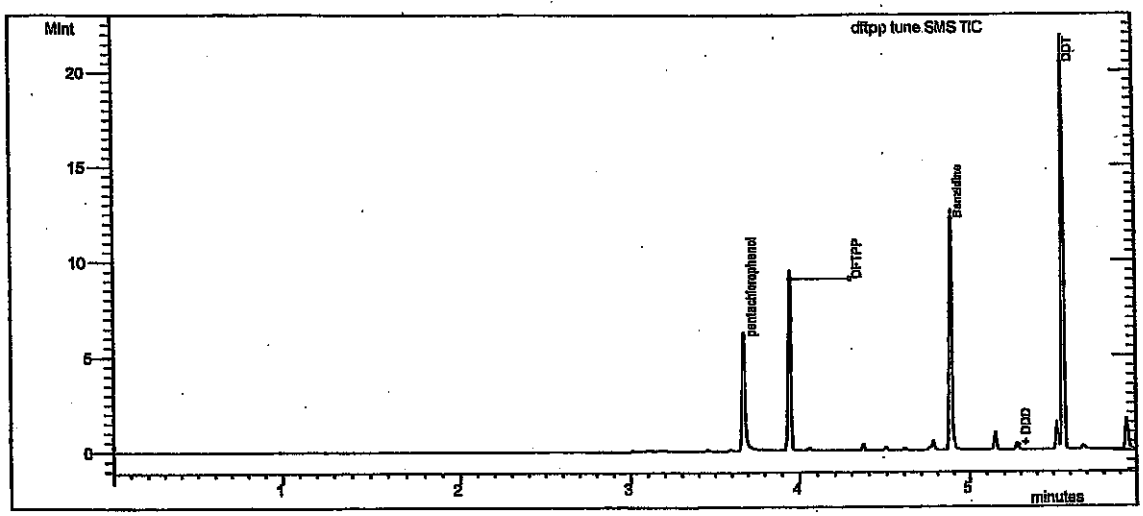
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Mellus
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

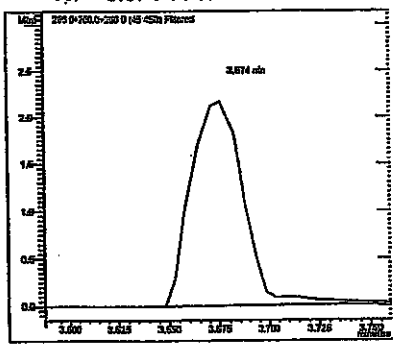
% Degradation of DDT : = .509 ✓ dam 4/28/14

TC 4-28-14

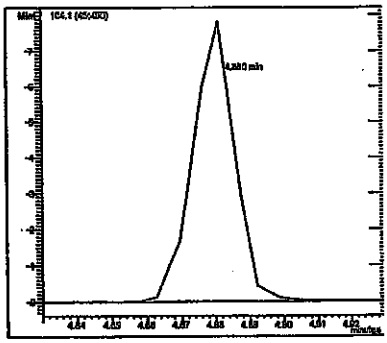
Tailing and Gaussian Factor Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dm 4/28/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

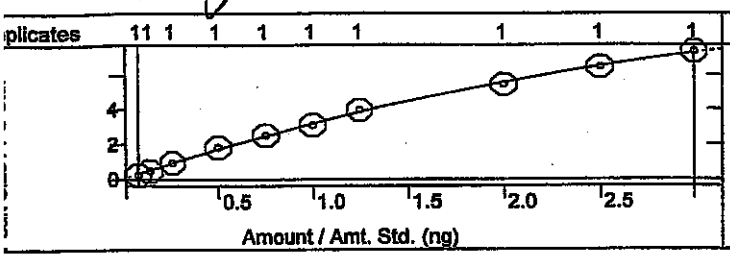
alibration Curves Report

✓ JAH 4/28/14

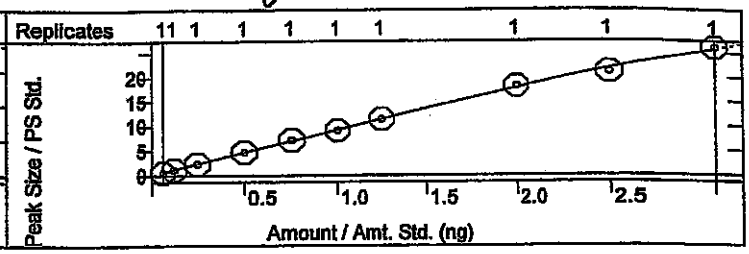
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

✓ 4-28-14

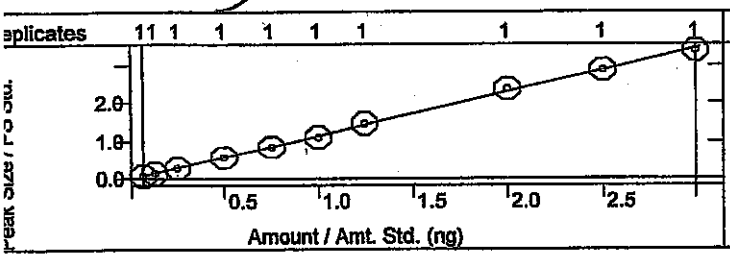
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



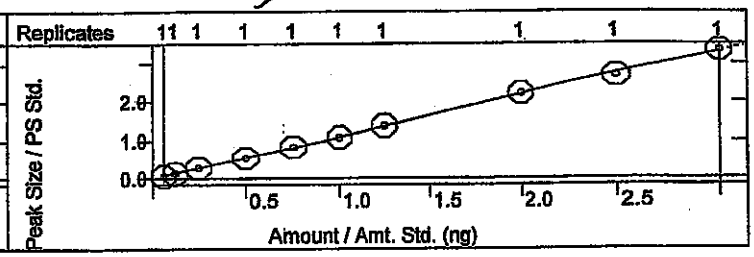
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



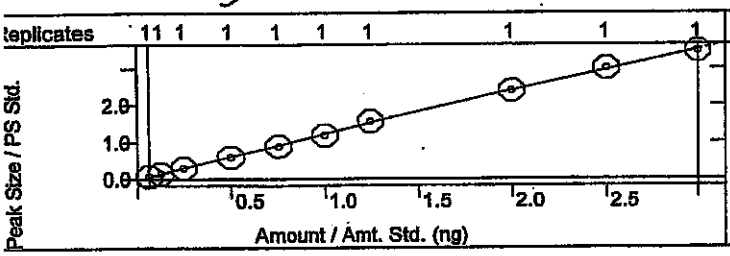
-Fluorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



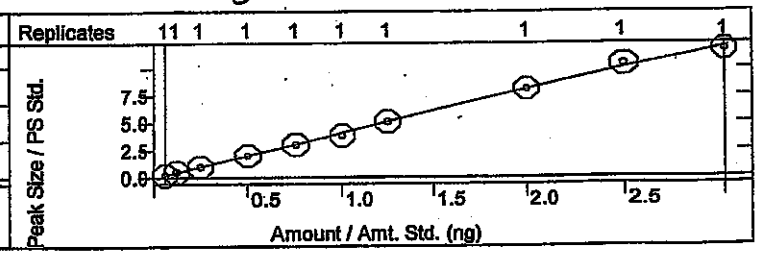
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



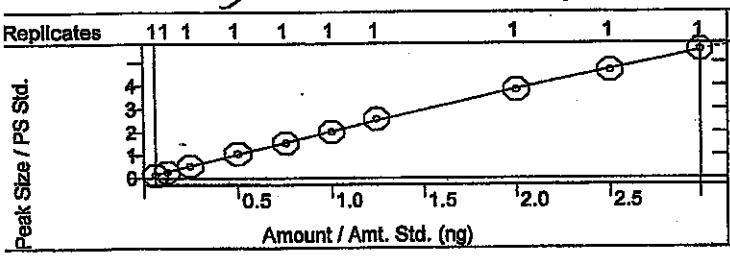
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
y = -0.0409x2 +1.2967x -0.0251



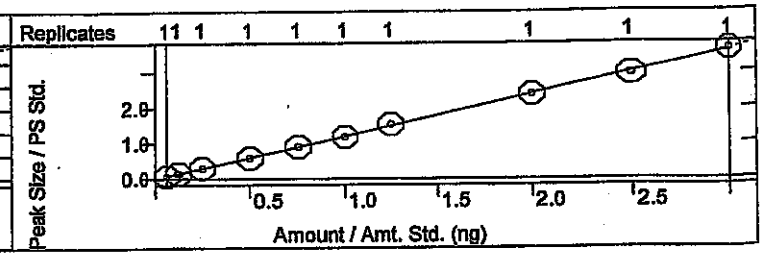
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



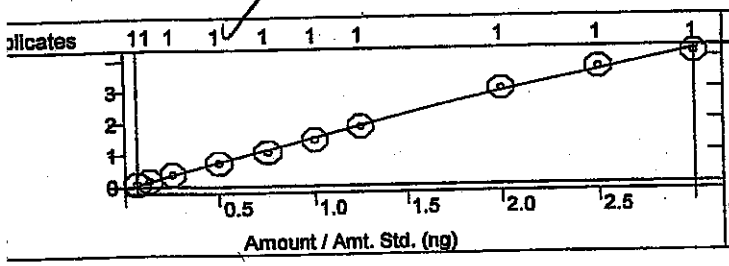
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



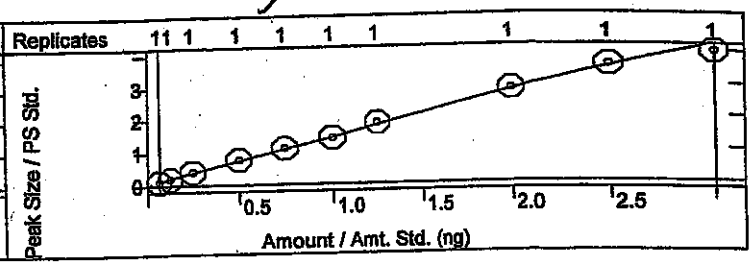
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
3 Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

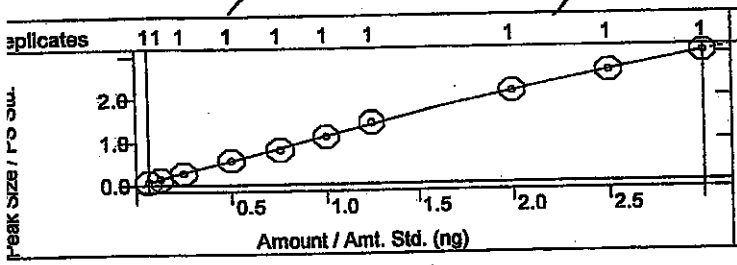
3-Dichlorobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



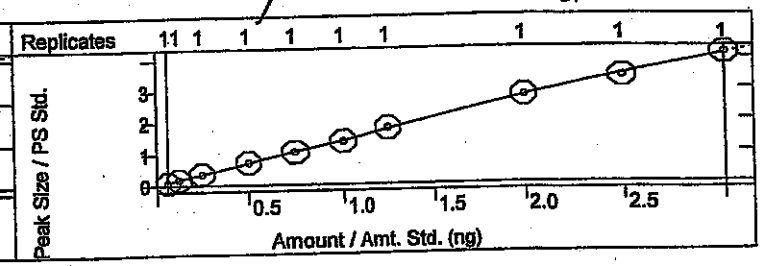
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



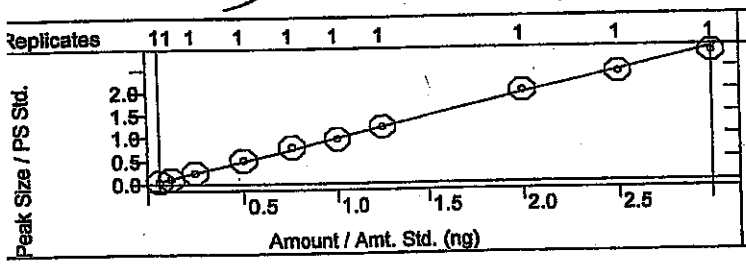
lenzyl alcohol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



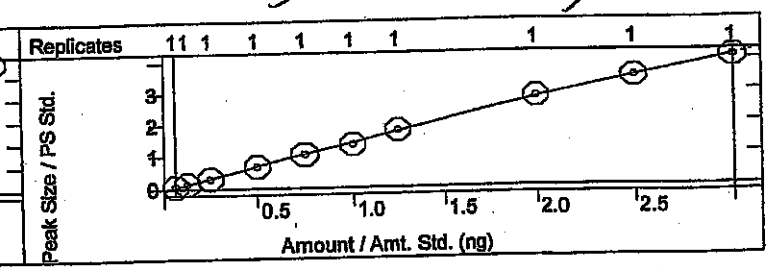
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



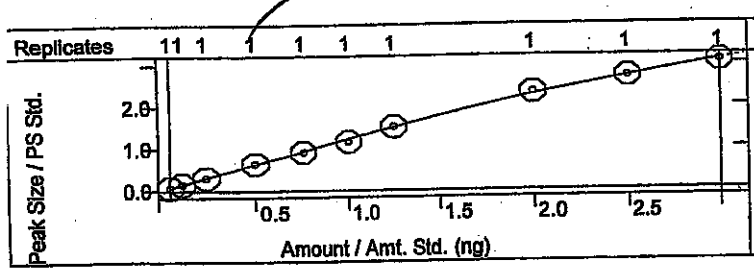
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



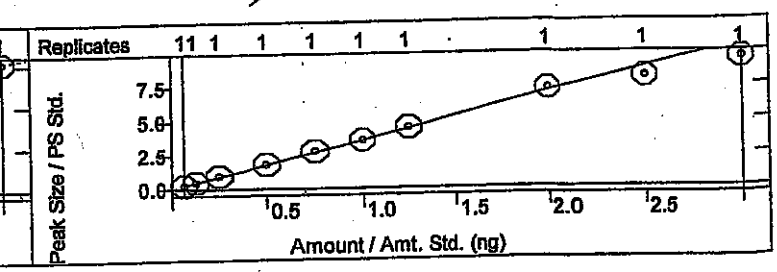
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

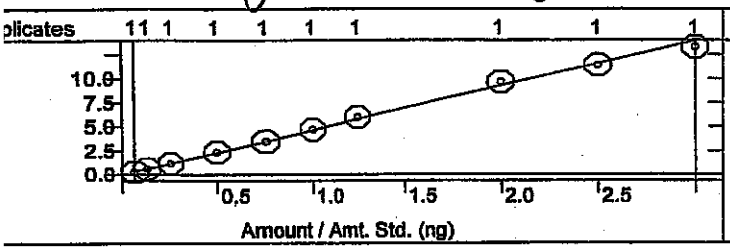


I dan 4/28/14

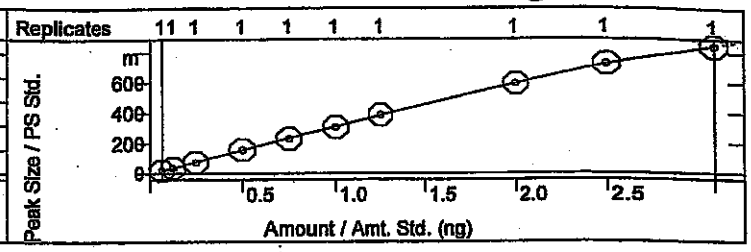
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

5/1/14

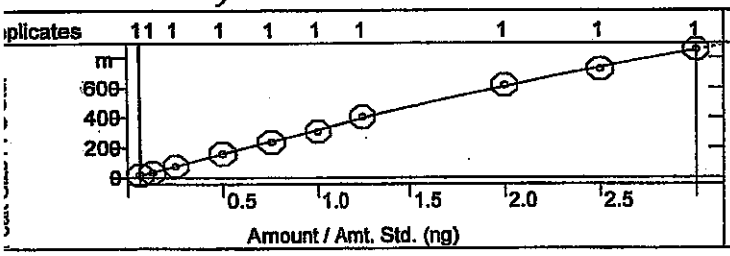
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



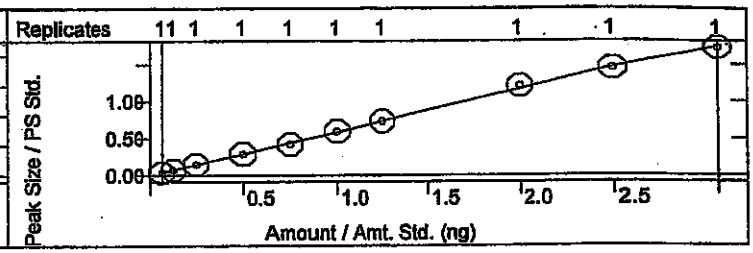
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



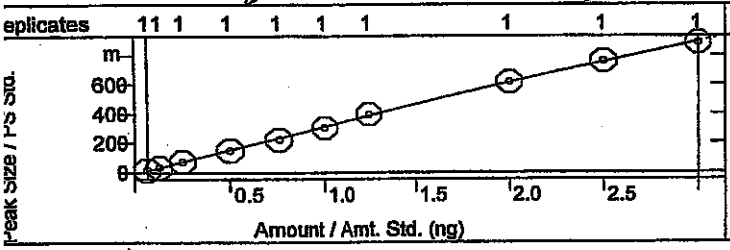
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



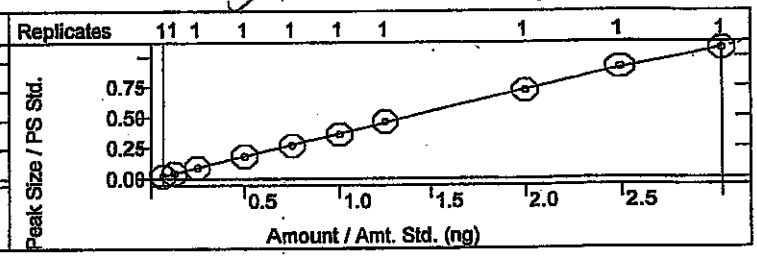
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



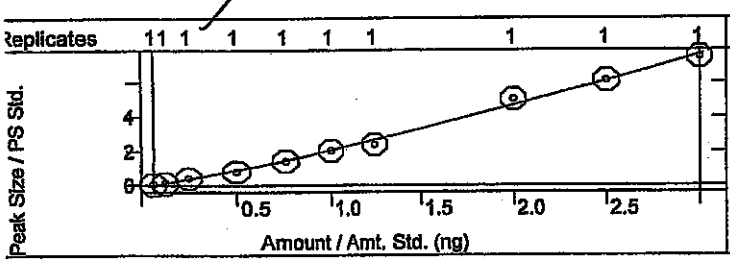
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



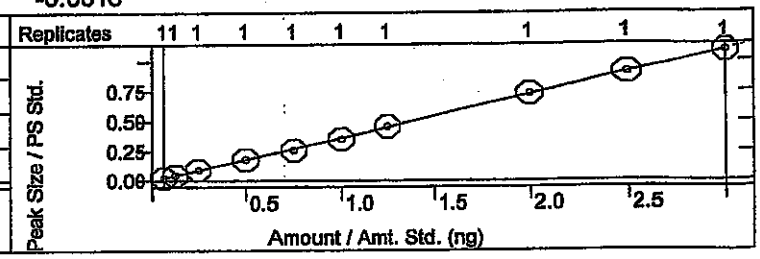
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016



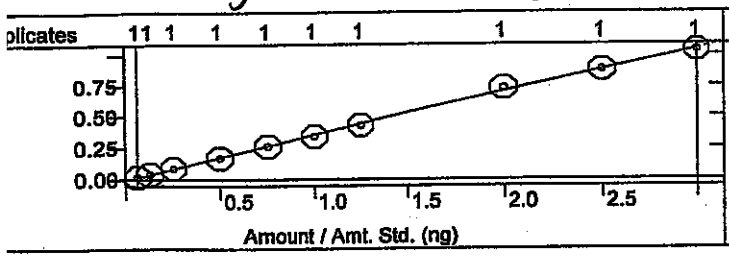
alibration Curves Report

v dam 4/1/2014

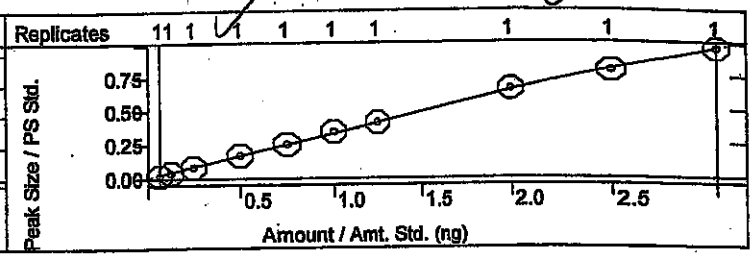
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

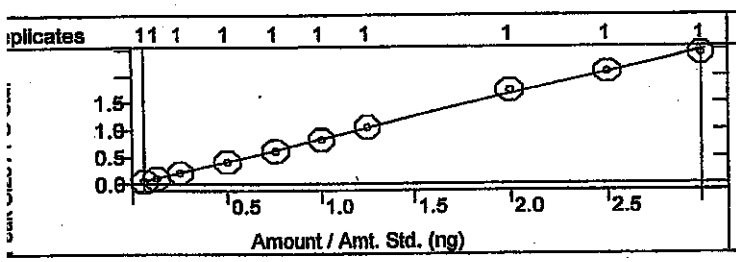
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



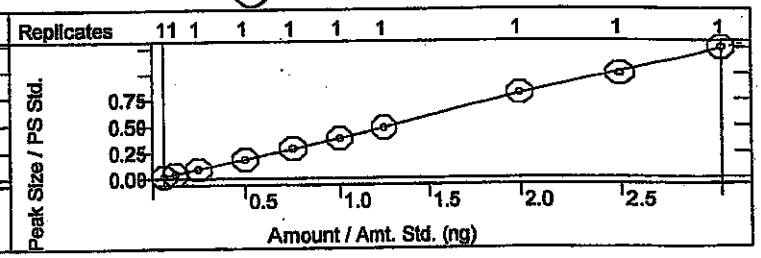
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



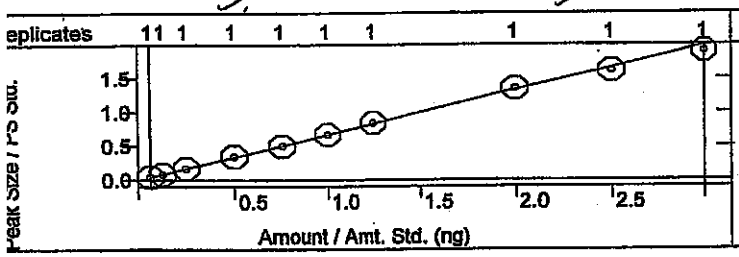
laphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



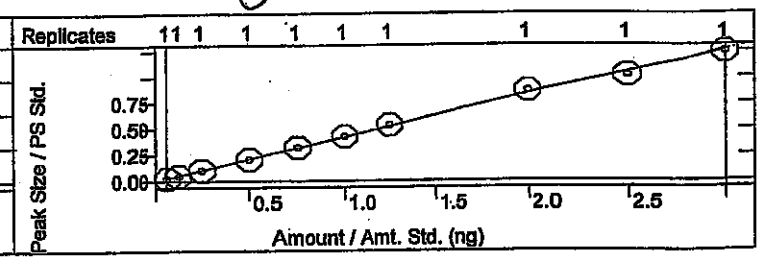
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



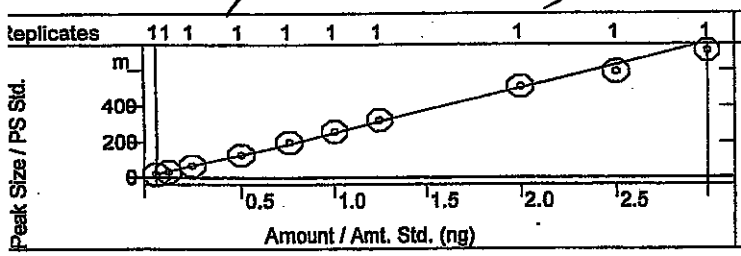
lexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



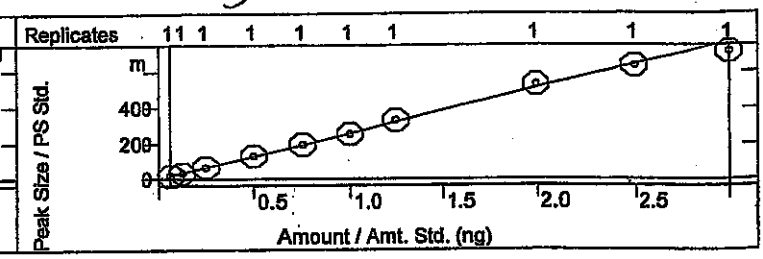
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



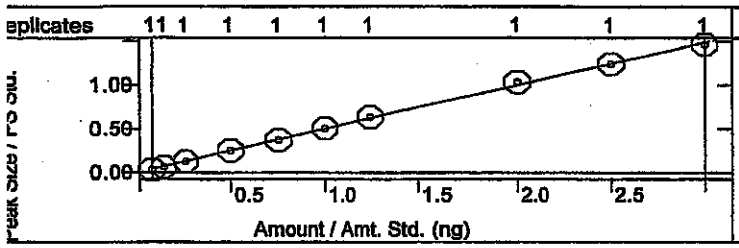
Calibration Curves Report

dlm 4/28/14

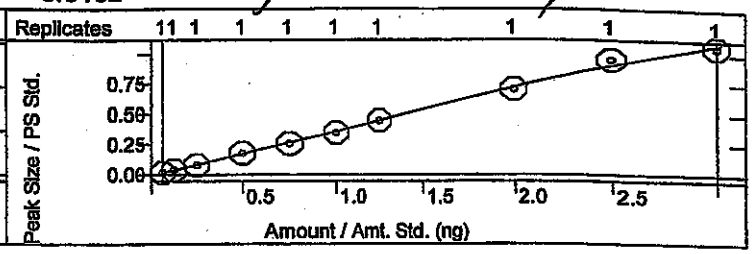
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

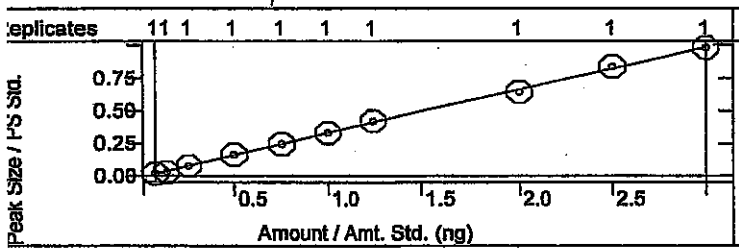
Hexachlorocyclopentadiene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
y = +0.4936x +0.0086



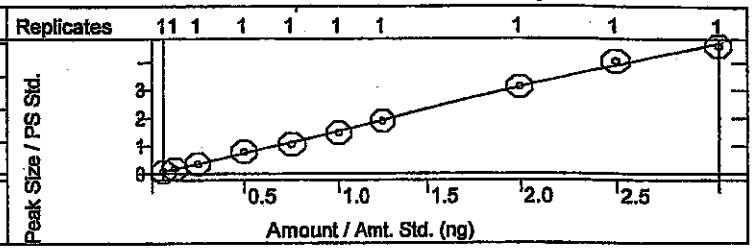
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



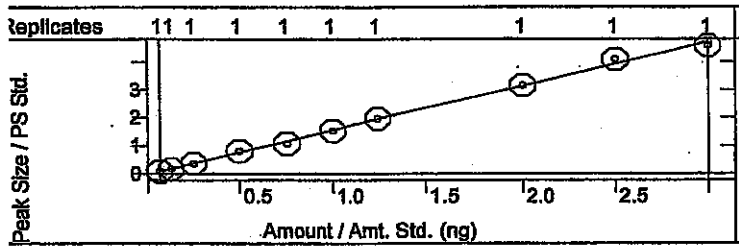
2,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
y = -0.0042x2 +0.3430x -0.0068



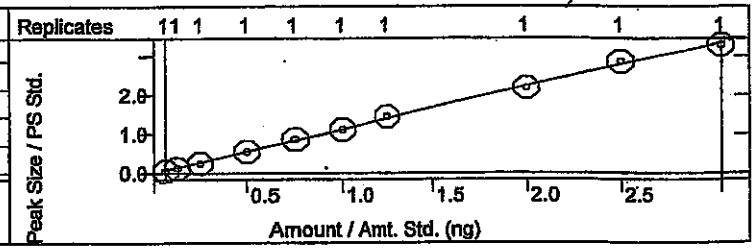
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



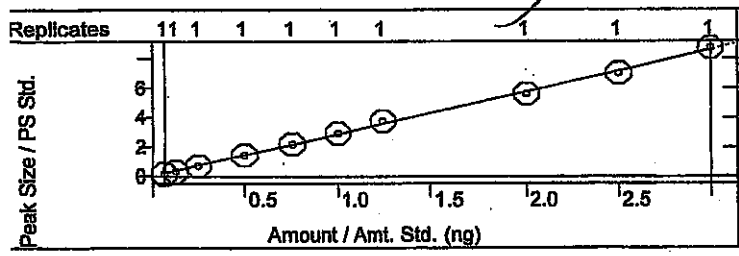
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
y = +1.5769x -0.0150



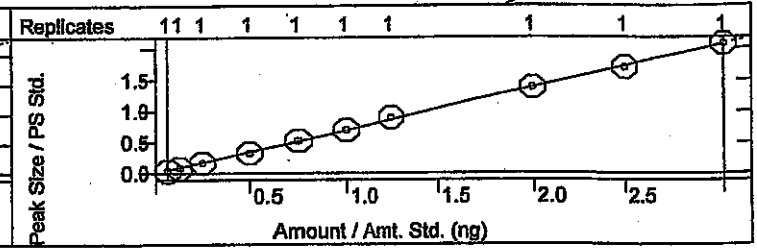
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



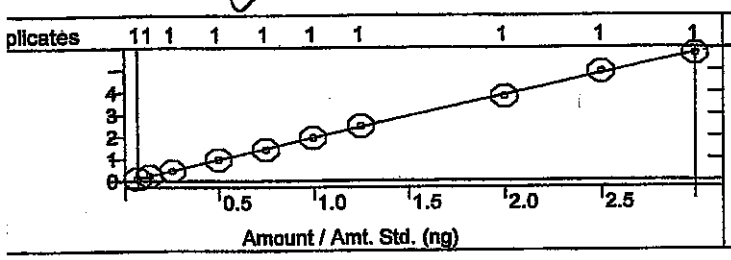
alibration Curves Report

✓ dm 4/28/14

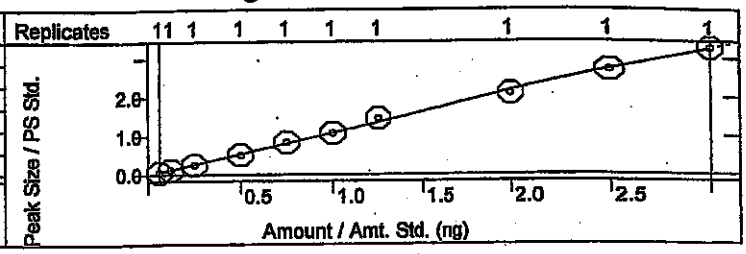
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

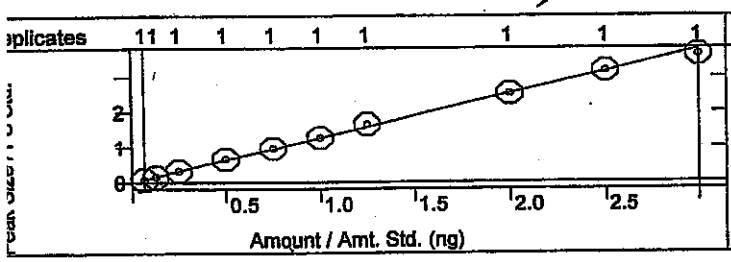
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



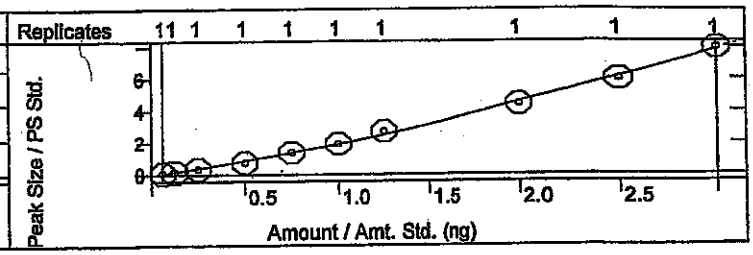
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



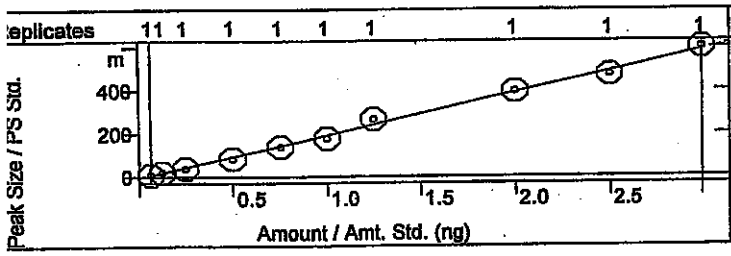
cenaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



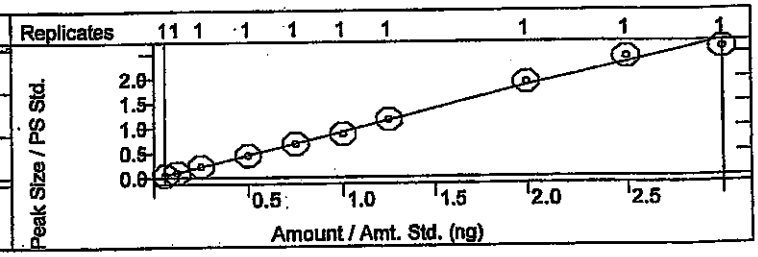
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



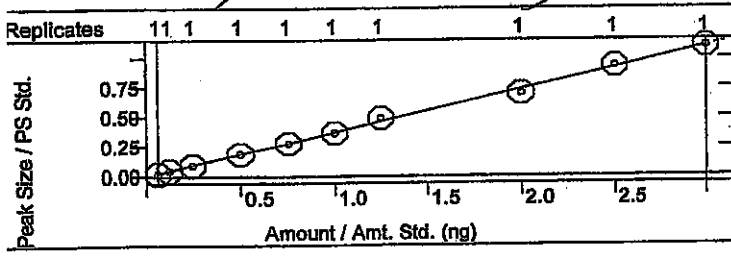
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



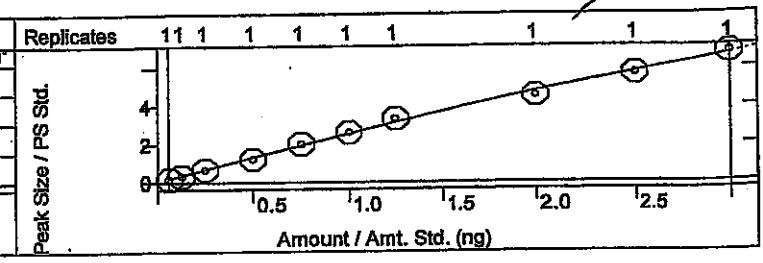
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



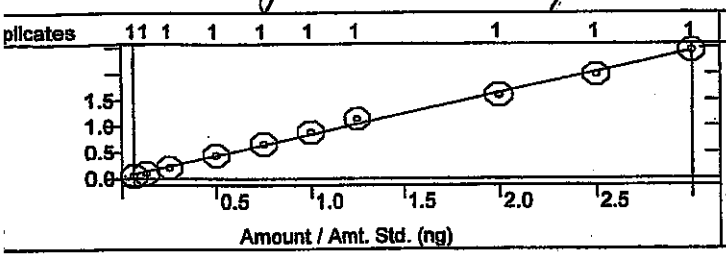
alibration Curves Report

J MM 7/20/14

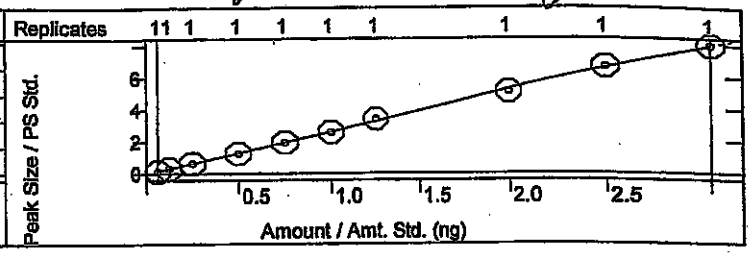
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-24-14

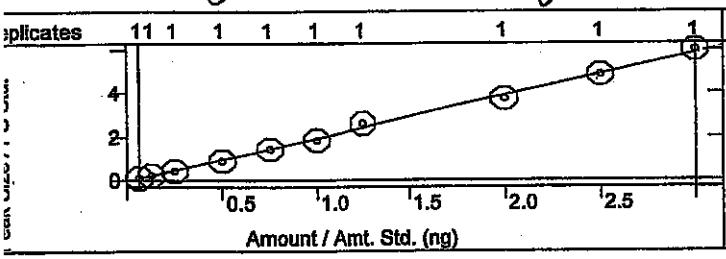
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



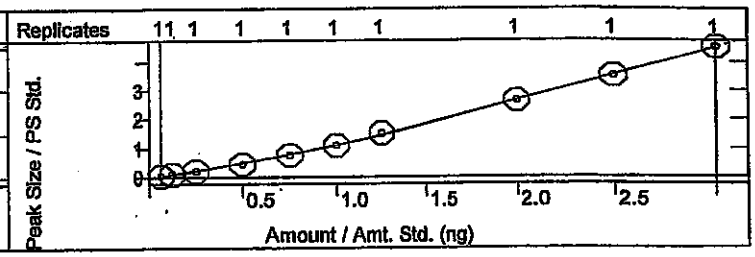
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



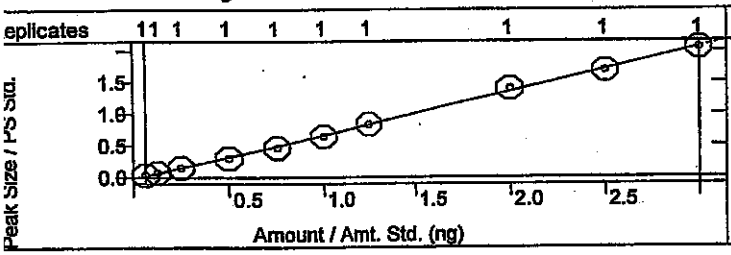
-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



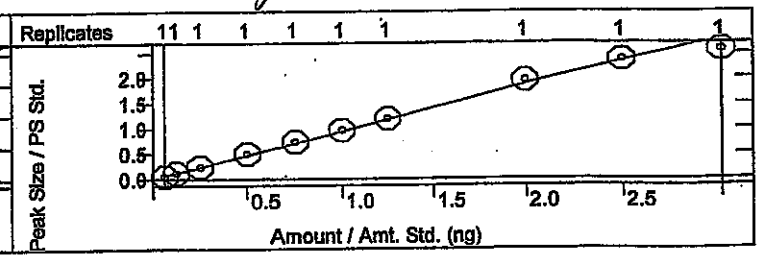
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



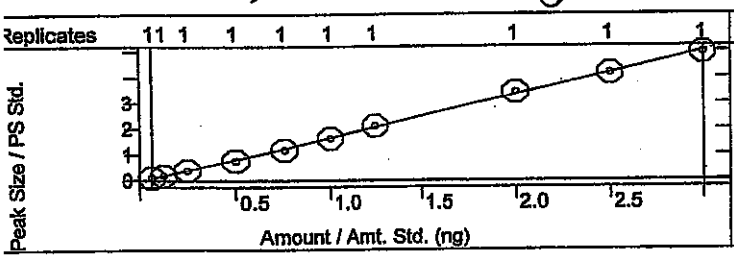
N-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



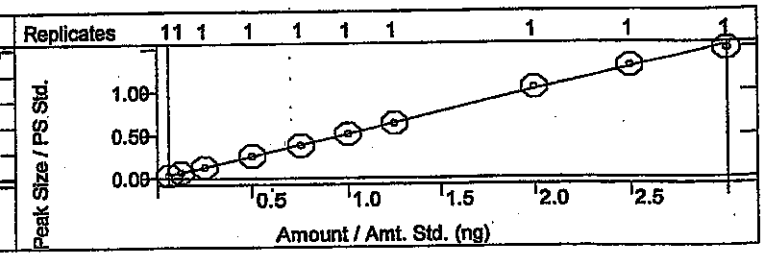
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



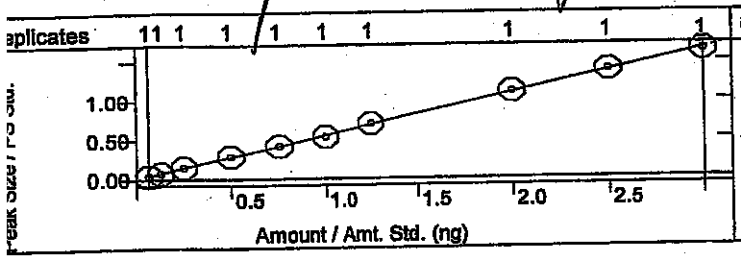
Calibration Curves Report

VJdm 4/28/14

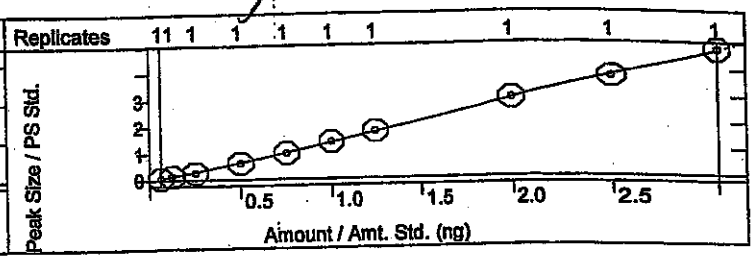
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
GC/MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

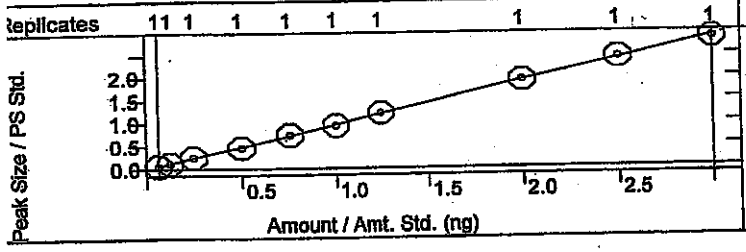
Hexachlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
y = +0.5470x +0.0070



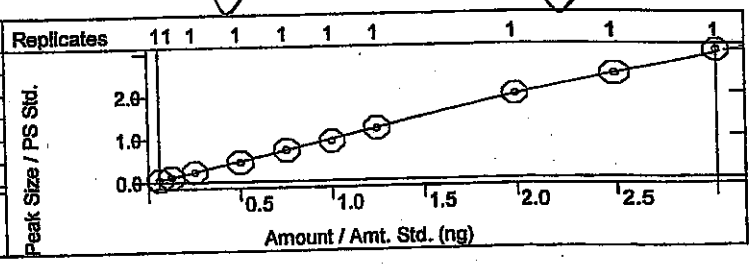
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



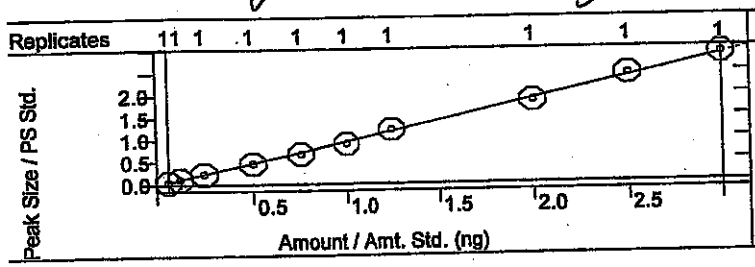
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



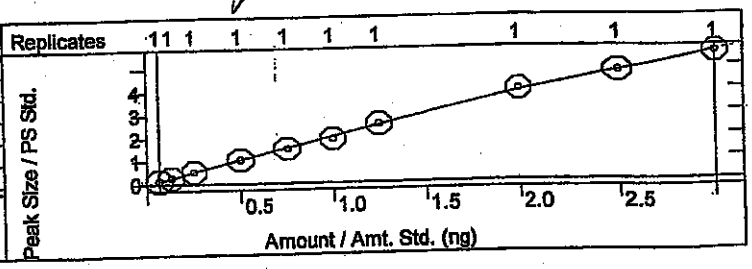
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



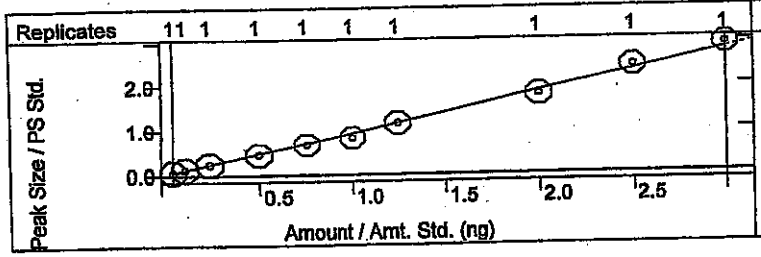
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



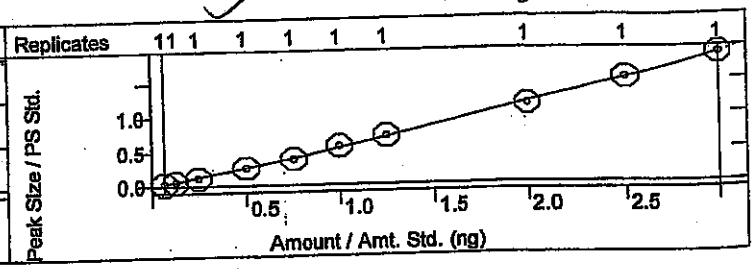
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098

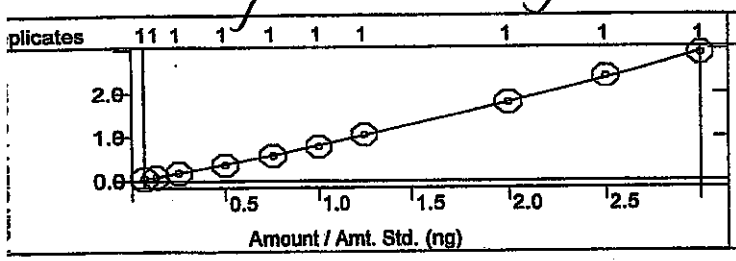


alibration Curves Report

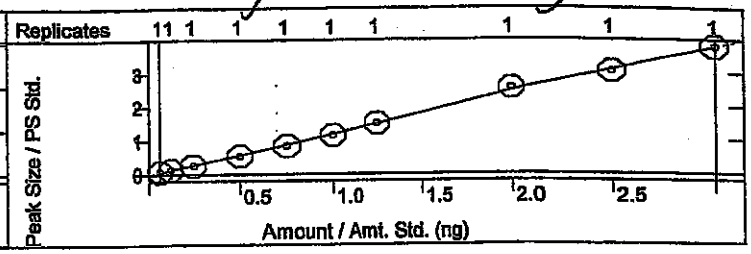
J Allen 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

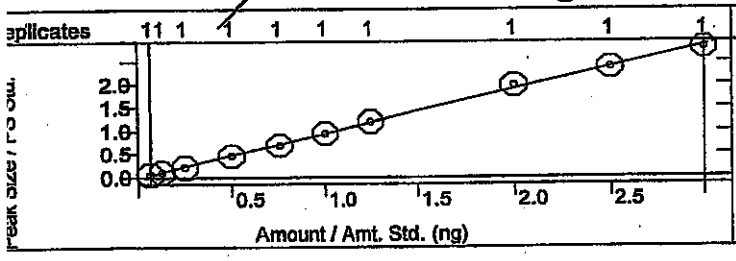
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



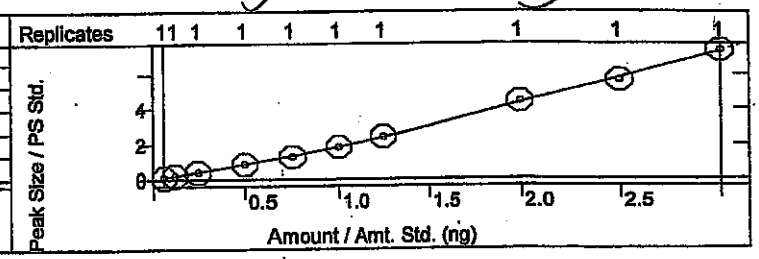
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



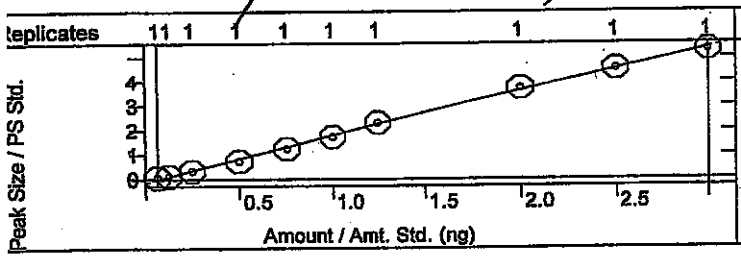
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



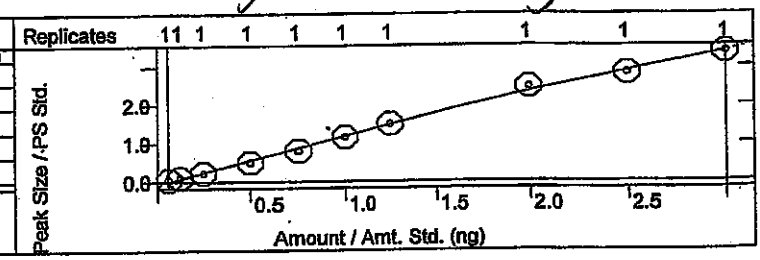
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



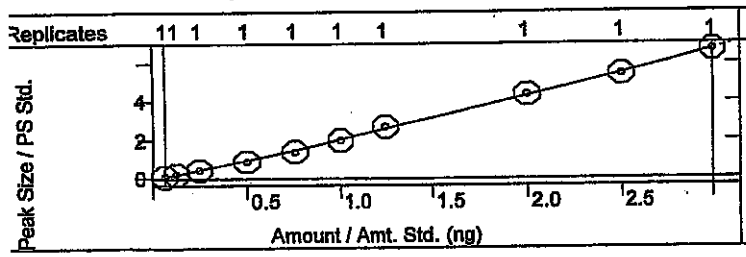
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9866x -0.1374



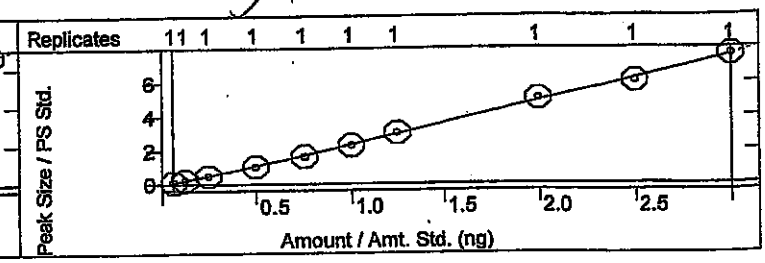
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



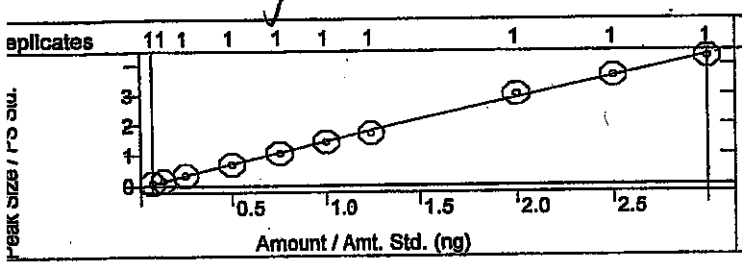
Calibration Curves Report

I dam 4/28/14

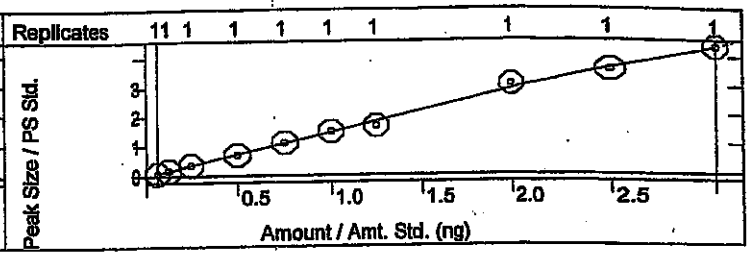
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 4-28-14

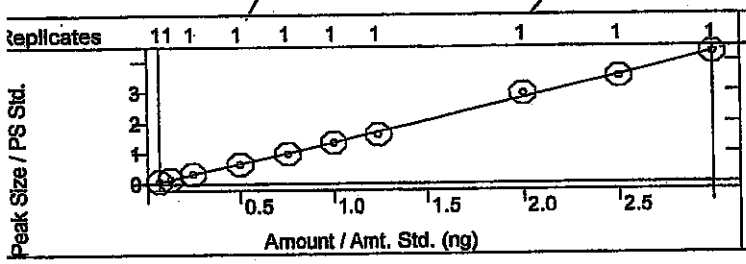
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
y = -0.0187x2 +1.5058x -0.0450



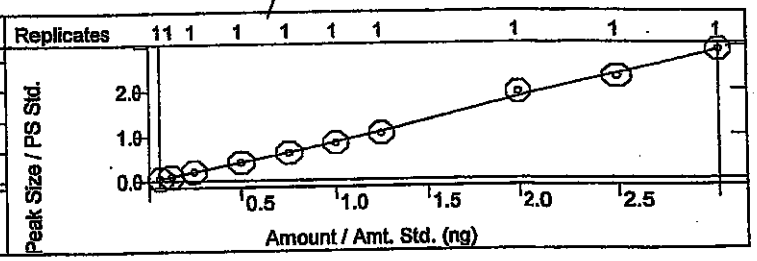
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4795x -0.0270



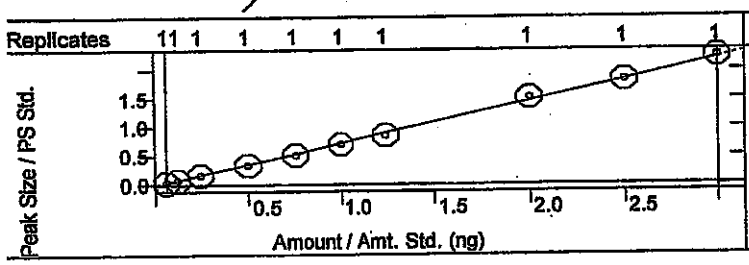
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



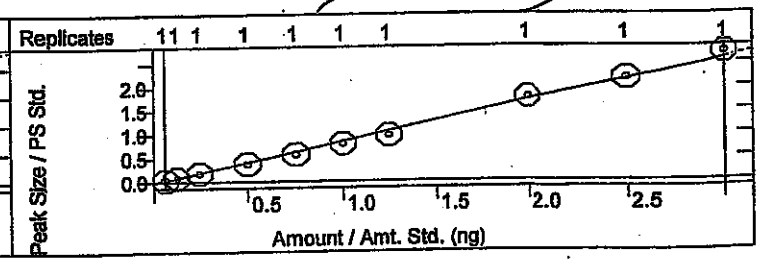
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/1

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dam 4/28/

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

4/25/14

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.581	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dmr 4/28/

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dlm 4/28

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

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TV 4-28-14

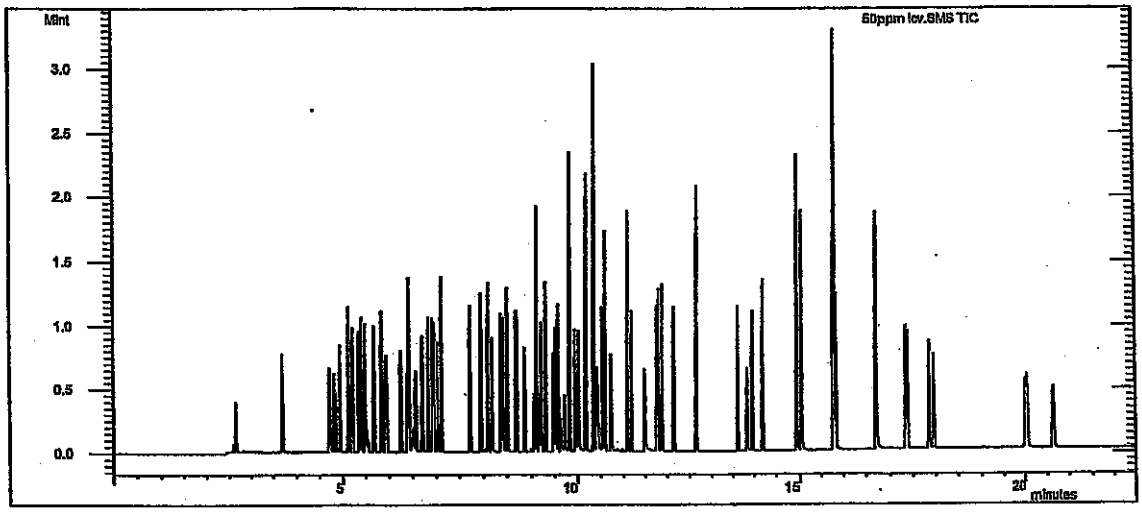
Compound	RRF	MinRRF	Ci	Cc	%D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dam 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

****

Varian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

SampleList: C:\VarianWS\033114.smp

Created: Mon Mar 31 09:23:44 2014
Modified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

4.1.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

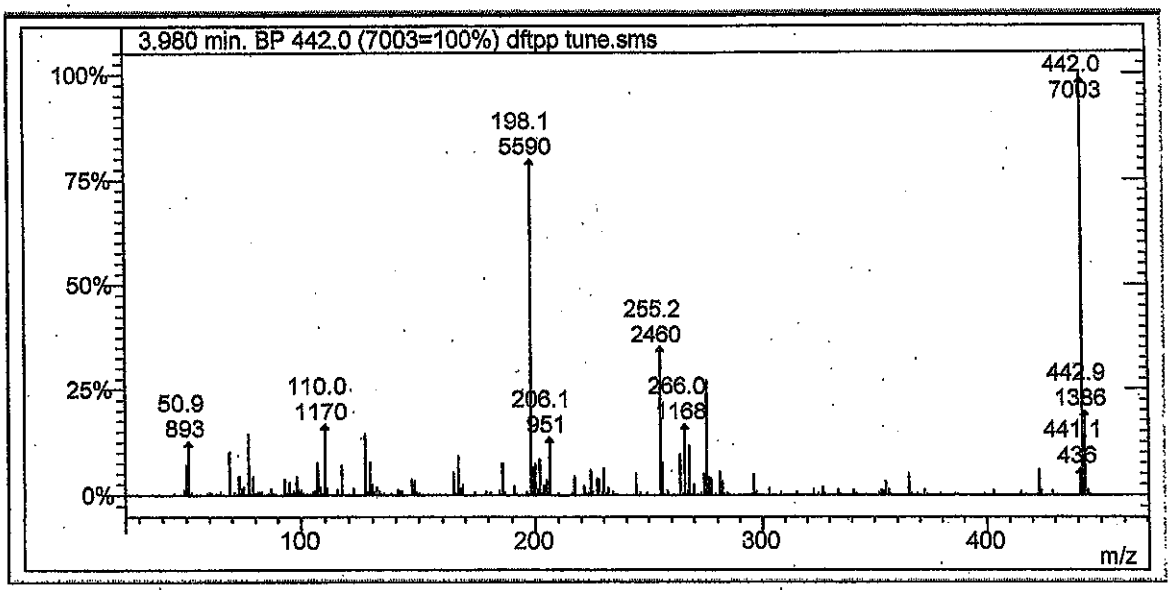
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
51	10-80% of base peak	12.8		
68	<2% of m/z 69	0.0		
69	Present	10.2		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	14.5		
197	<2% of m/z 198	0.4	(0.5)	198
198	Base peak	79.8		
199	5-9% of m/z 198	6.5	(8.2)	198
275	10-60% of base peak	26.9		
365	>1% of base peak	5.0		
441	Present and <m/z 443	6.2	(31.5)	443
442	>50% of m/z 198	100.0	(125.3)	198
443	15-24% of m/z 442	19.8		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 II crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 II crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 II crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 II crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

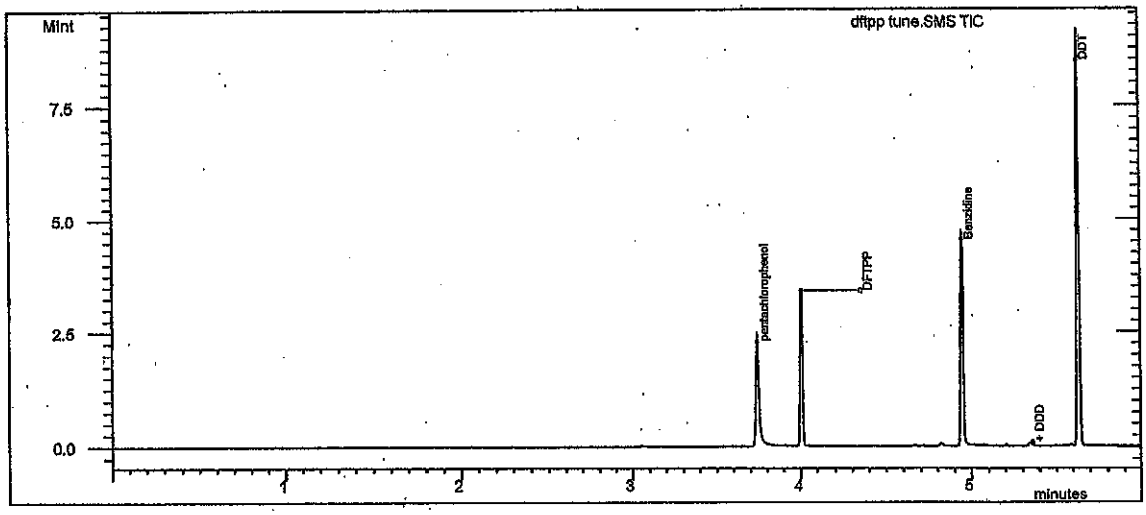
DWN 4/1/14

3C

4<(<17

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT: = .944

✓ dam 4/1/14

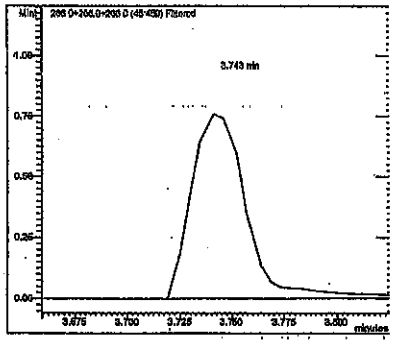
JV 4-1-14

Tailing and Gaussian Factor Report

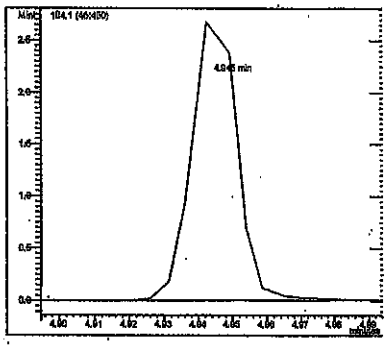
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

dam 4/1/14

TC 4/1/14

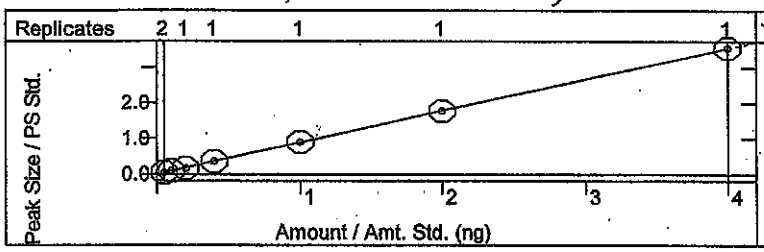
Print Date: 31 Mar 2014 13:27:53

Calibration Curves Report

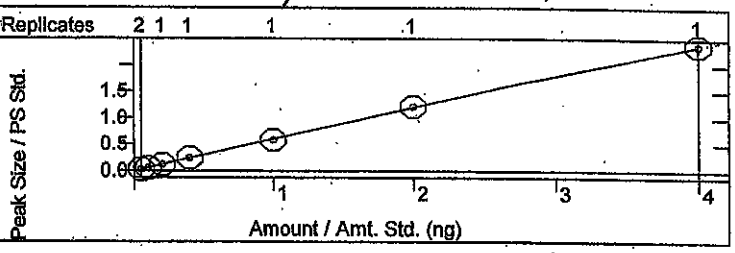
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

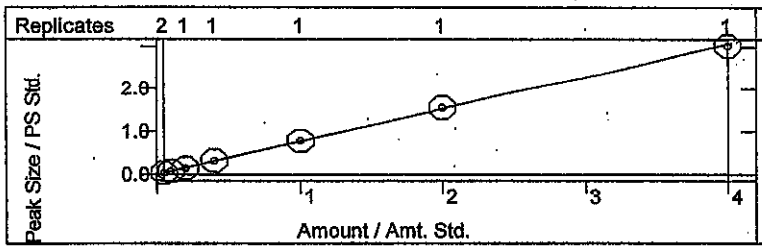
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



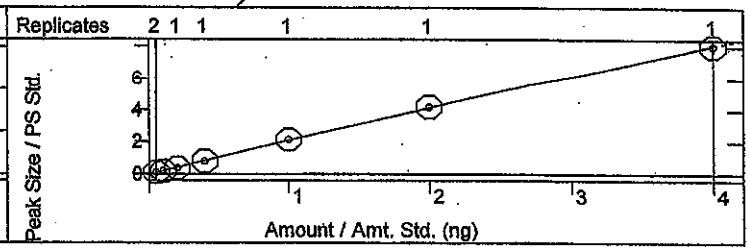
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



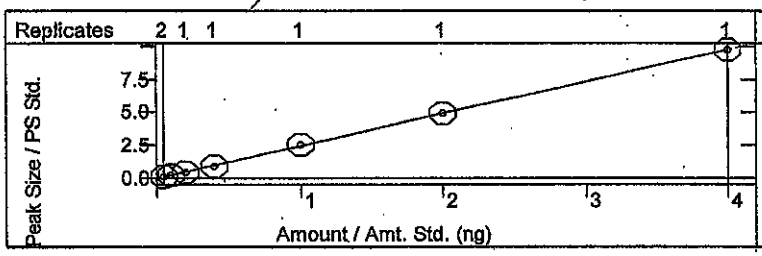
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



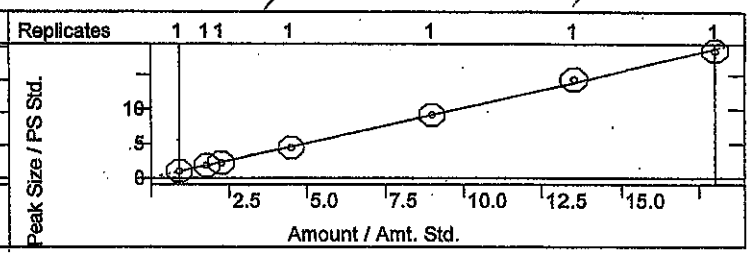
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



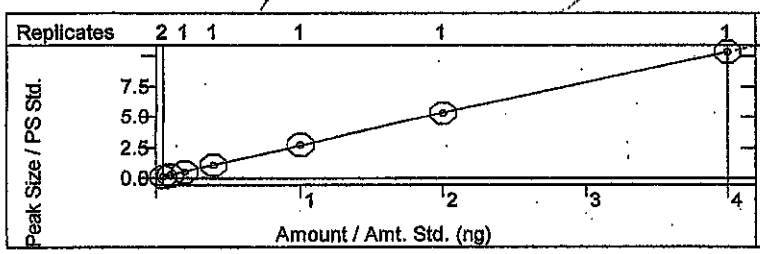
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



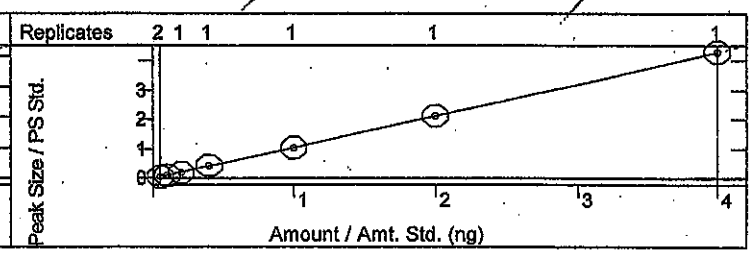
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4



Calibration Curves Report

dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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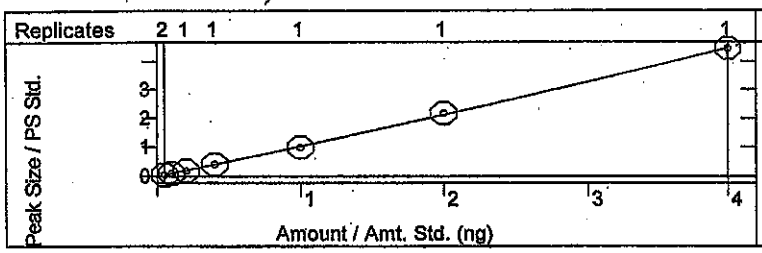
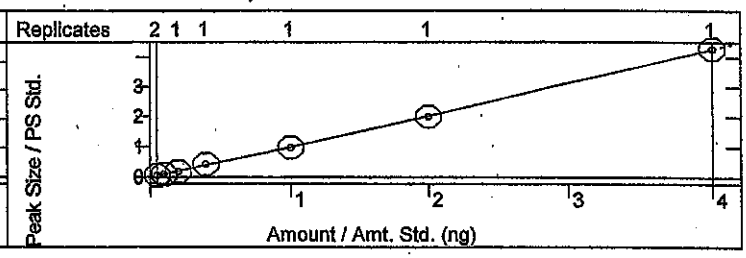
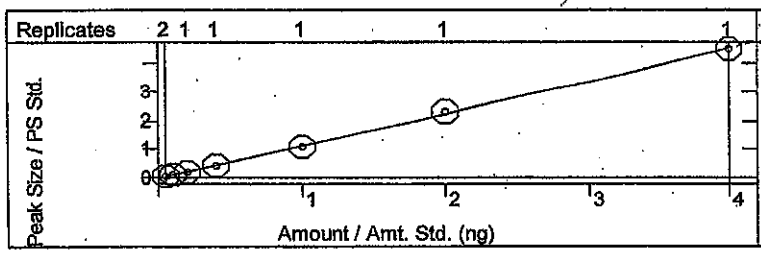
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



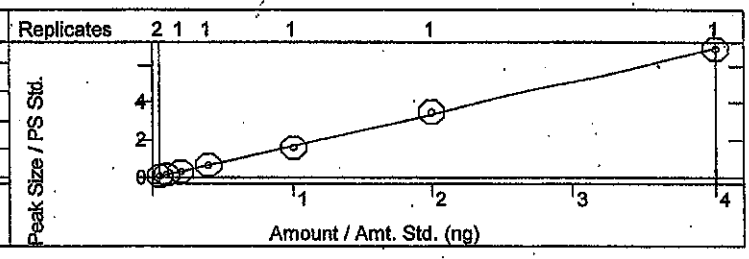
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



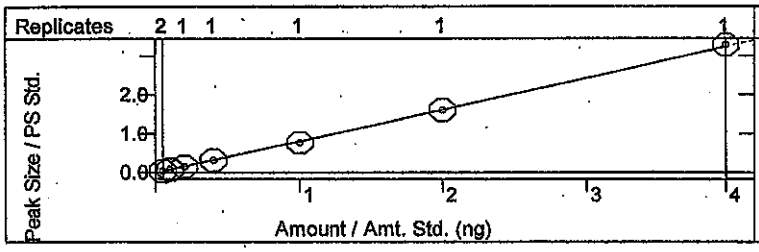
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



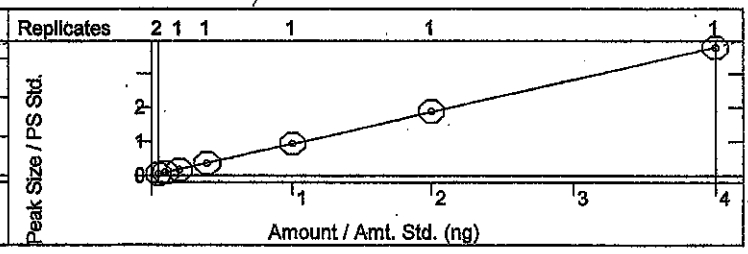
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



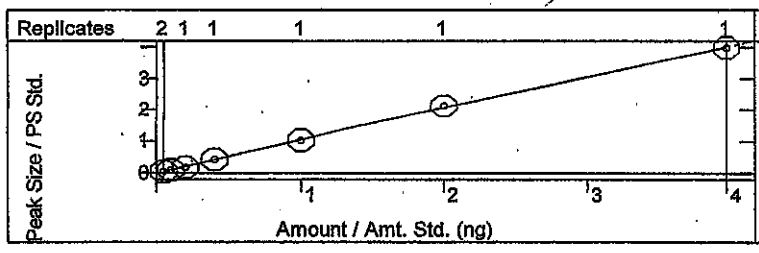
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



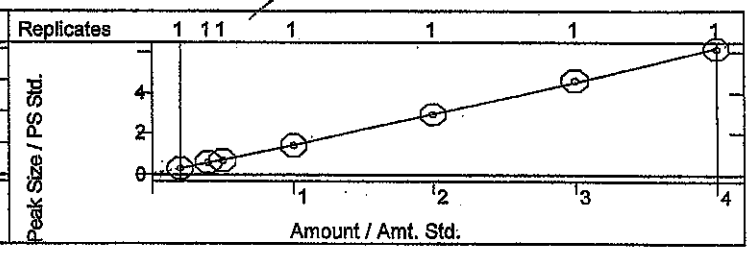
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401



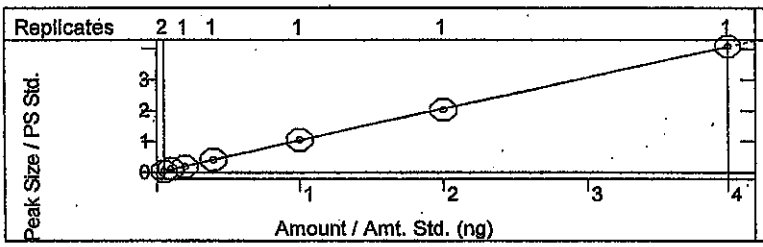
Calibration Curves Report

dam 4/1/14

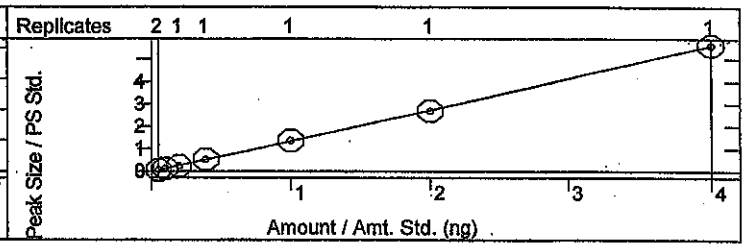
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4/1/14

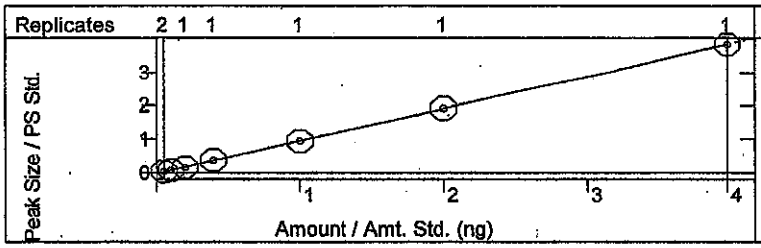
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



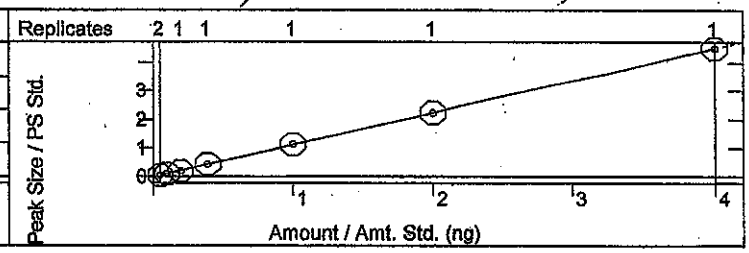
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JC 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
									Average %RSD	5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4-1-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

DC
4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Mellus

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

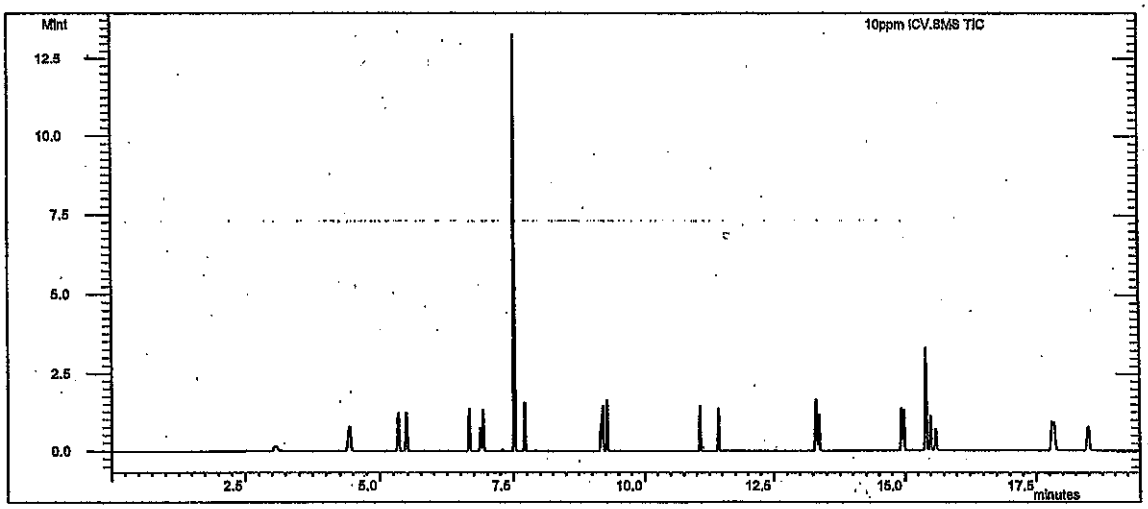
* indicates Internal Standard.

dam 4/1/14

JC 4.1.14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Mellus	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

```
************************************************************
Revision Log
************************************************************

3/31/2014 1:43 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 033114.mth'
```

9/11/14

Analytical Report
Lab Order: **1409136**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409136

Lab ID: 1409136-001
Client Sample ID: FFOR-CF-0061

Collection Date: 9/3/2014 12:04:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	4.5	0.55		mg/Kg-dry	2	9/6/2014 1:38:50 PM	15138

Lab ID: 1409136-002
Client Sample ID: FFOR-CF-0062

Collection Date: 9/3/2014 12:10:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	28	0.27		mg/Kg-dry	1	9/6/2014 1:19:43 PM	15138

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 9/5/14

QA'd/Date: JWF 9/6/14

Prep Start Date: **9/5/2014 9:06:30 A**
Prep End Date:

Prep Batch ID **15138** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15138		Soil			1.0244	0	0	50	50.000	9/5/2014	
LCS-15138		Soil			1.9779	0	0	50	50.000	9/5/2014	
1409219-001A	FFOR-CF-0063	MeOH (Soil)			1.0282	0	0	50	50.000	9/5/2014	
1409219-002A	FFOR-CF-0064	MeOH (Soil)			1.9908	0	0	50	50.000	9/5/2014	
1409219-003A	FFOR-CF-0065	MeOH (Soil)			1.9960	0	0	50	50.000	9/5/2014	
1409219-004A	FFOR-CF-0066	MeOH (Soil)			1.0105	0	0	50	50.000	9/5/2014	
1409219-005A	FFOR-CF-0067	MeOH (Soil)			1.9854	0	0	50	50.000	9/5/2014	
1409219-006A	FFOR-CF-0068	MeOH (Soil)			1.0215	0	0	50	50.000	9/5/2014	
1409219-007A	FFOR-CF-0069	MeOH (Soil)			1.9910	0	0	50	50.000	9/5/2014	
1409219-008A	FFOR-CF-0070	MeOH (Soil)			1.9931	0	0	50	50.000	9/5/2014	
1409219-008AMS		MeOH (Soil)			1.9839	0	0	50	50.000	9/5/2014	
1409219-008AMSD		MeOH (Soil)			1.9948	0	0	50	50.000	9/5/2014	
*1409219-009A	FFOR-CF-0071	MeOH (Soil)			1.0105	0	0	50	50.000	9/5/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

*sample did not have a HEAL label. Hand written sample ID on Lid. MD 9/5/14

MD 1409132-001A 0.9502
1409134-002A 0.9941

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		151138		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4703	Tubes 1 / 1		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 3 / 3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1 / 5		HCl /		HCl /
	Filters /		Filters /	4724	Filters 3 1 2 8 9 10		Filters /		Filters /
				41084	H_2O_2 1 / 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 / 1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawah Position: D4

Therm ID: DBT-24 Calibration Exp: 9/27/15

Temp: 91.7 °C CF: -0 °C = Corr. Temp: 91.7 °C

Analyst: MD Date/Time: 9/5/14 15:12

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5005 Rm Temp (°C): 21.2 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

250µL Pipette No.: P03 Wt. DI (g): 0.2507 Rm Temp (°C): ↓ Analyst: ↓

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 9/5/14 QA'd/Date: [signature] 9/10/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 21037

ICP-OES Analysis Summary

Data Imported By: BLS 9/6/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: 1515

Results Data Set: 090614 BL5138 Prep Batch ID: 15138

Calibration

	Standard ID
ST1	ST6010- 14379
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- ~~EEL~~ 9/6/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14391
ICV CAT	ST6010- N/A
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010- 14257	Custom Std 1102	50µl	10mL
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 50µL Wt DI (g): 0.0506 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P11 Spike Volume: 100µl Wt DI (g): 0.1008 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P30 Spike Volume: 500µl Wt DI (g): 0.5075 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0111 Rm Temp (°C): 21.3 Analyst: EL

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
PB	1409219-005A	0.06089	0.9854g	50mL	2x	6.1792	mg/kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result: ____ mg/L

Analyst/Date: EL 9/6/14 Qa'd by/Date: 9/11/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ~~af~~ and ~~kz~~

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Sample Information Detail Report
Document Name: 090614 B15138

File Description
Hall Design

Parameters Common to All Samples

Batch ID	090614 B15138
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-15138	MBLK
2	302	LCS-15138	LCS
3	303	1409136-001A	SAMP
4	304	1409136-002A	SAMP
5	305	1409219-001A	SAMP
6	306	1409219-002A	SAMP
7	307	1409219-003A	SAMP
8	308	1409219-004A	SAMP
9	309	1409219-005A	SAMP
10	310	1409219-006A	SAMP
11	311	1409219-007A	SAMP
12	312	1409219-008A	SAMP
13	313	1409219-008AMS	MS
14	314	1409219-008AMSD	MSD
15	315	1409219-009A	SAMP
17	316	1409136-001A 2X	SAMP
18	317	1409219-005A 2X	SAMP
19	318	1409219-008APS	PS

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL		
5	METALS_SOIL		
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL		
13	METALS_SOIL	Recovery 1 of 12	
14	METALS_SOIL	Recovery 1 of 12	
15	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

15
17
18
19

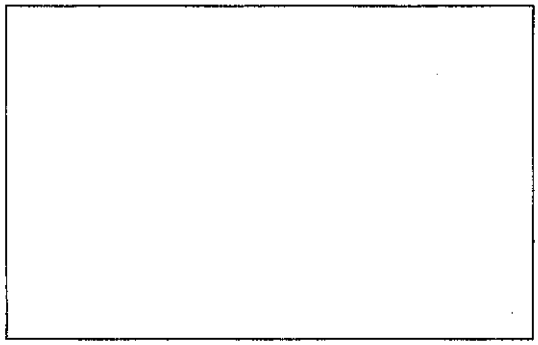
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
1	1		Calib Blank 1	Applied
2	408		ST1	Applied
3	409		ST2	Applied
4	2		ST3	Applied
5	410		ST4	Applied
6	413		ST5	Applied
7	411		ST6	
8	3		ST7	
9	412		ST8	
10	401	QC	ICV	QC Passed
11	402	QC	ICV CAT	
12	1	QC	ICB	QC Passed
13	408	QC	PQL CHECK	QC Passed
14	403	QC	ICS ELEM	QC Passed
15	404	QC	ICS	QC Passed
16	301		MB-15138	Analyzed
17	302		LCS-15138	Analyzed
18	303		1409136-001A	IS Check Failed
19	304		1409136-002A	Analyzed
20	305		1409219-001A	Analyzed
21	306		1409219-002A	Analyzed
22	307		1409219-003A	Analyzed
23	308		1409219-004A	Analyzed
24	309		1409219-005A	IS Check Failed
25	310		1409219-006A	Analyzed
26	2	QC	CCV	QC Passed
27	1	QC	CCB	QC Passed
28	3	QC	CCV CAT	Analyzed
29	311		1409219-007A	Analyzed
30	312		1409219-008A	Analyzed
31	313		1409219-008AMS	Analyzed
32	314		1409219-008AMSD	Analyzed
33	315		1409219-009A	Analyzed
34	316		1409136-001A 2X	Analyzed
35	317		1409219-005A 2X	Analyzed
36	318		1409219-008APS	Analyzed
37	2	QC	CCV	QC Passed
38	1	QC	CCB	QC Passed
39	3	QC	CCV CAT	Analyzed
40	7	QC	DI RINSE	QC Passed

Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Ag 328.068



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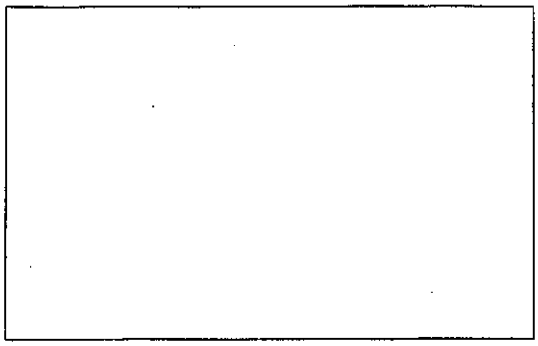

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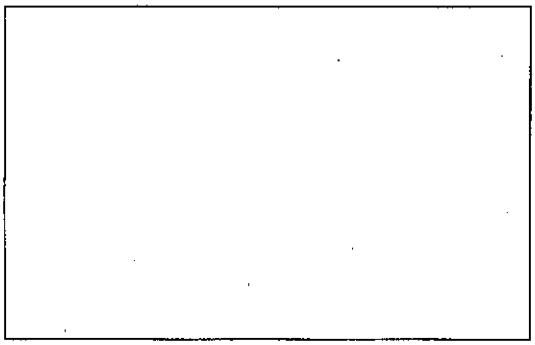
As 188.979



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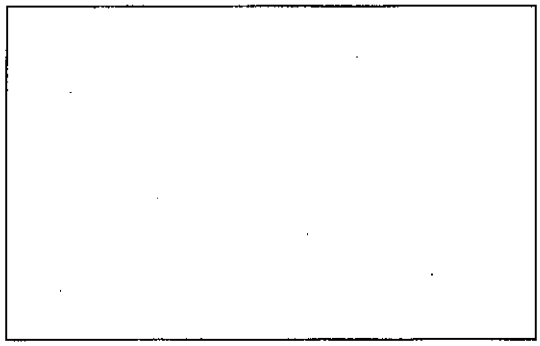
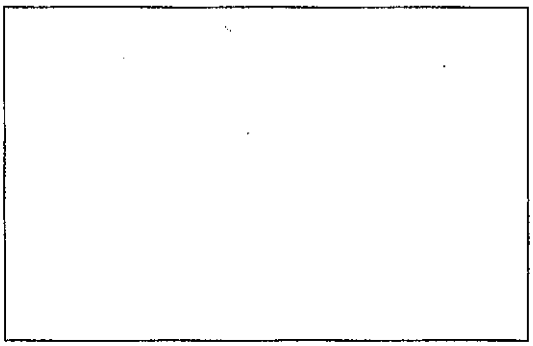


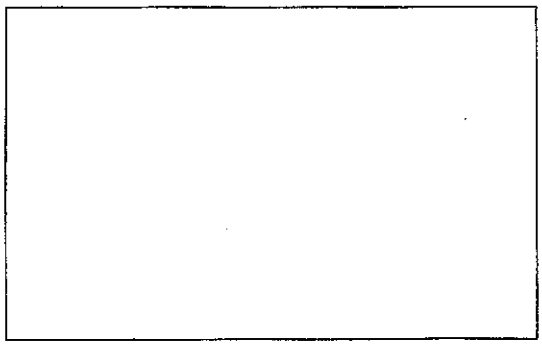
4

B 249.772



5

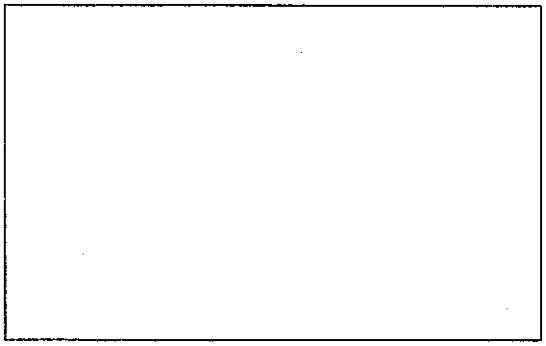
B 249.677



6

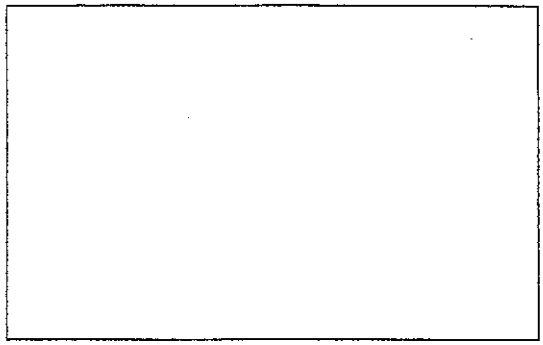
Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Ba 233.527



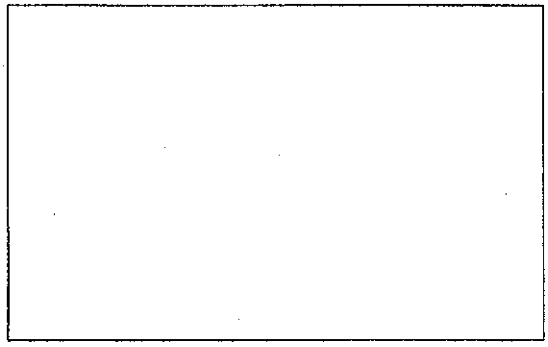
7

Be 313.107



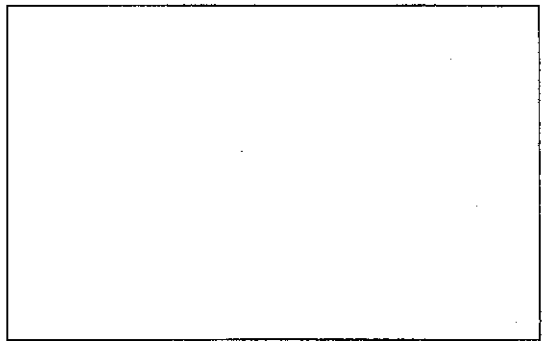
8

Ca 317.933



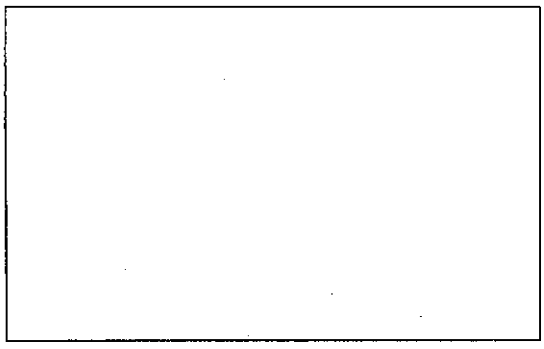
9

Cd 228.802



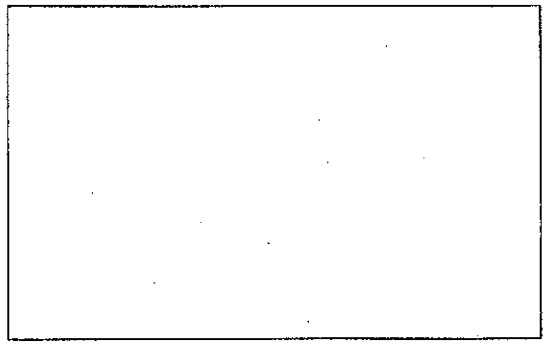
10

Cd 226.502



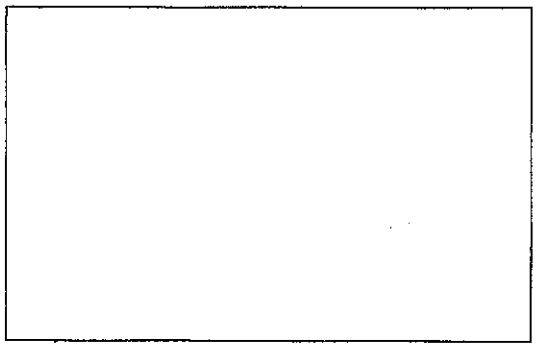
11

Co 228.616



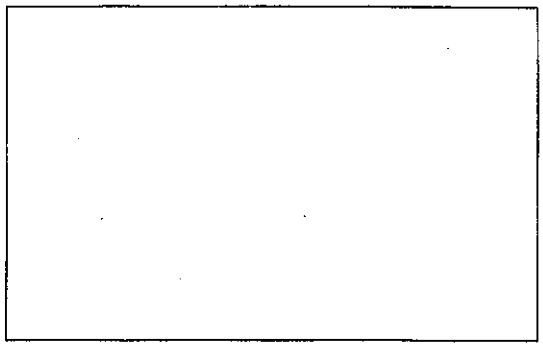
12

Cr 267.716



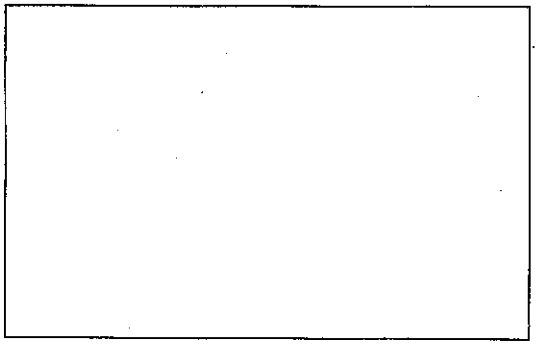
13

Cr 205.560



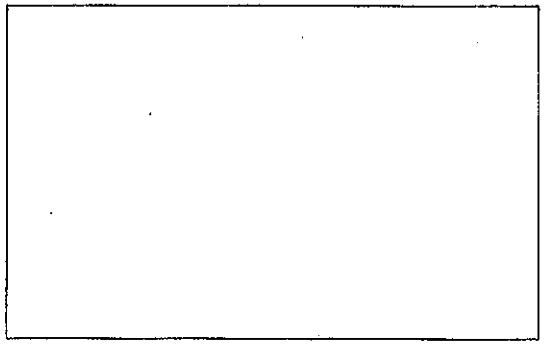
14

Cu 324.752



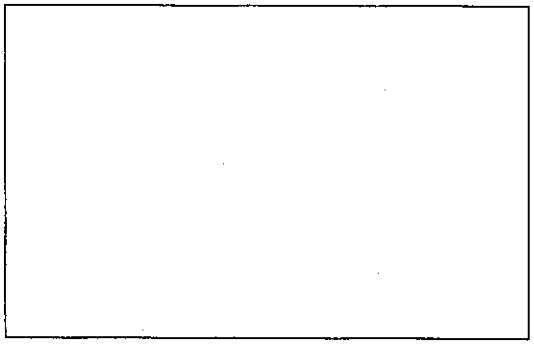
15

Fe 238.204



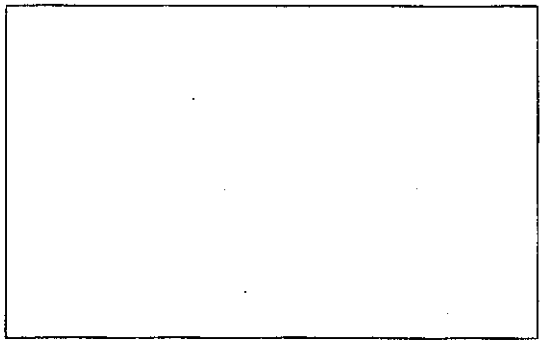
16

K 766.490



17

Mg 285.213



18

Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Mn 257.610

19

Mo 202.031

20

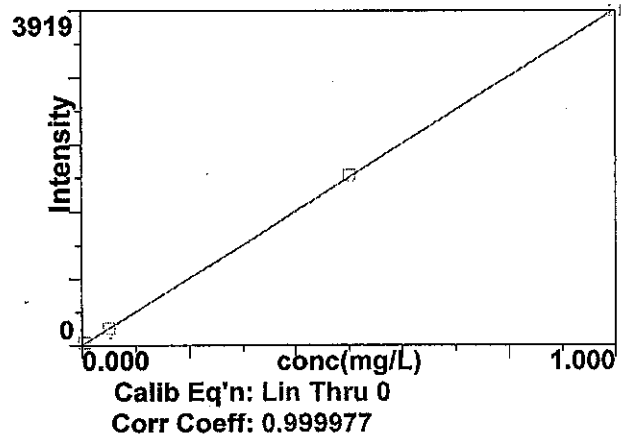
Na 589.592

21

Ni 231.604

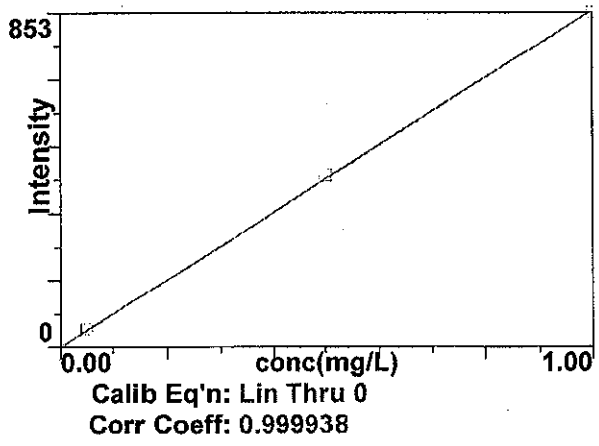
22

Pb 220.353



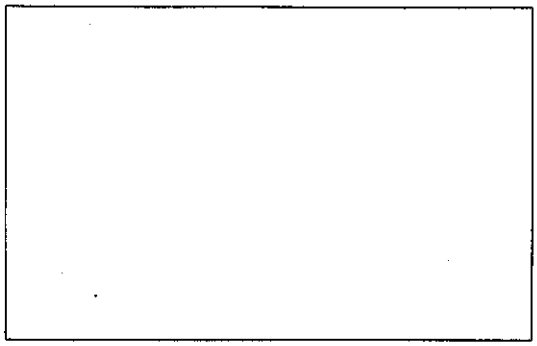
23

Pb 217.000



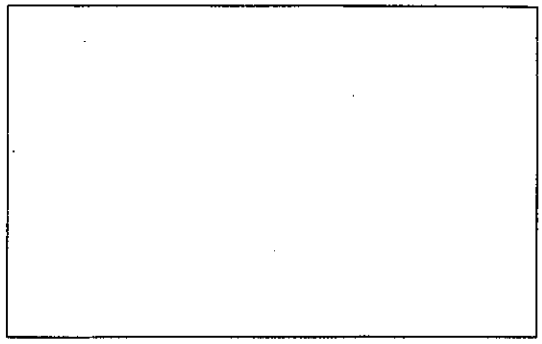
24

Sb 206.836



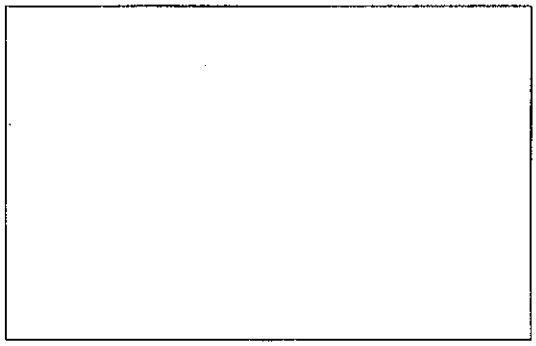
25

Se 203.985



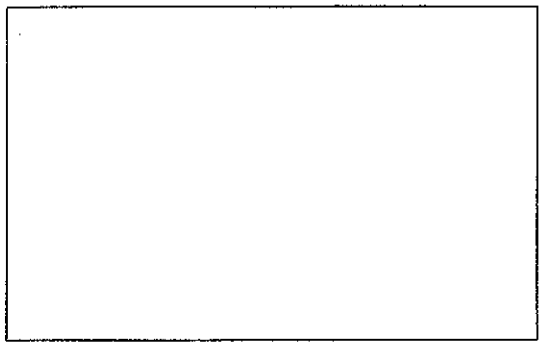
26

Se 196.026



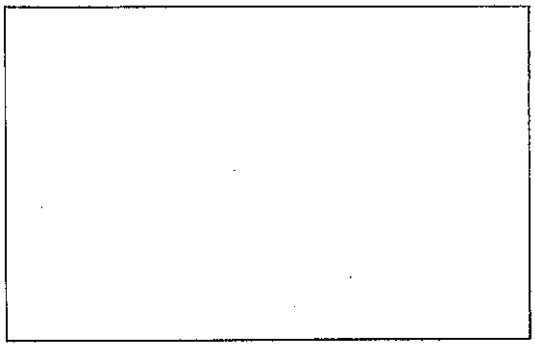
27

Si 212.412



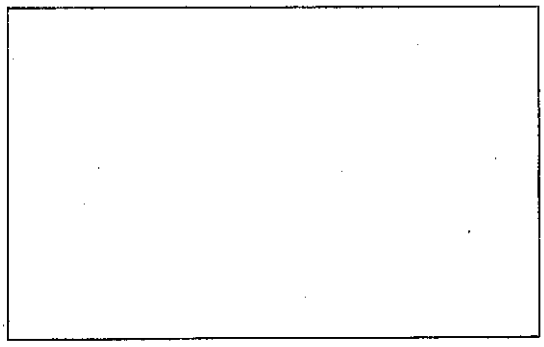
28

Sn 189.927



29

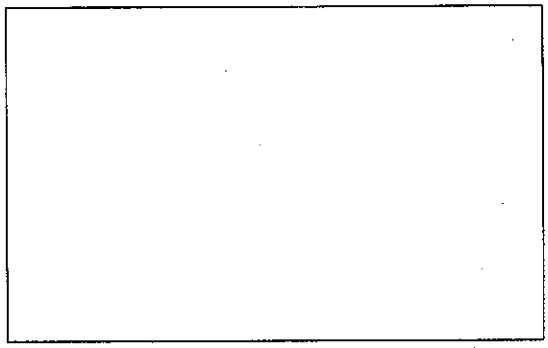
Ti 334.940



30

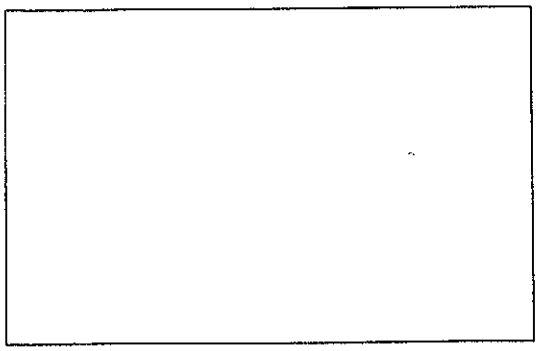
Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Tl 190.801



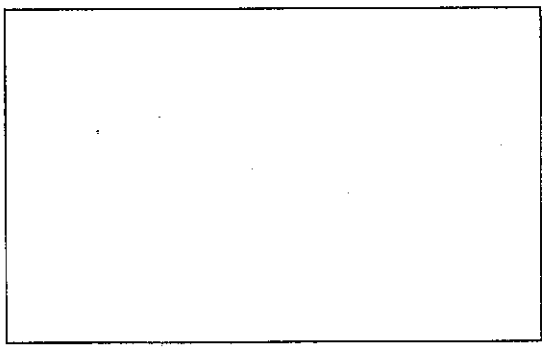
31

U 385.958



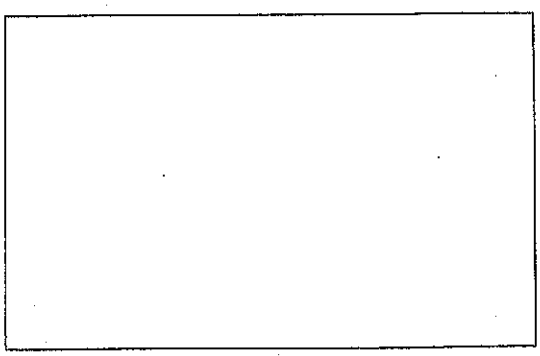
32

V 292.402



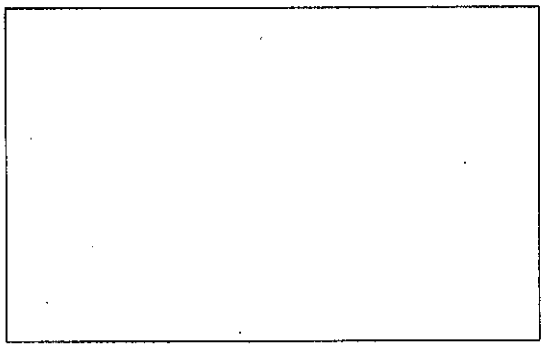
33

Zn 206.200



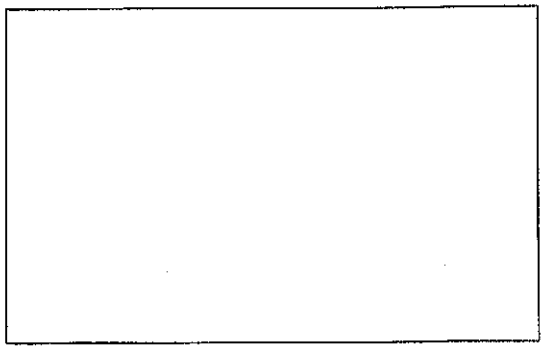
36

Sr 421.552



37

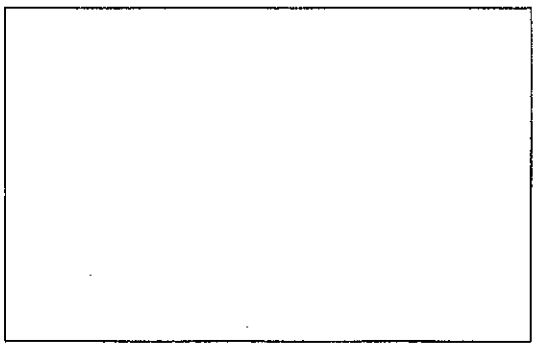
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 090614 B15138

U 424.167



39

Analysis Begun

Start Time: 9/6/2014 1:02:09 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/6/2014 1:02:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	626452.7	4975.59	0.79%	100.00	%
Pb 220.353†	-37.8	3.93	10.38%	[0.00]	mg/L
Pb 217.000†	6.1	5.21	85.02%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 9/6/2014 1:03:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	614747.4	3147.27	0.51%	98.132	%
Pb 220.353†	30.7	1.49	4.86%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 409
Date Collected: 9/6/2014 1:04:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	604306.0	5151.04	0.85%	96.465	%
Pb 220.353†	202.5	7.62	3.76%	[0.05]	mg/L
Pb 217.000†	46.4	3.02	6.51%	[0.05]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:06:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	617563.2	8147.77	1.32%	98.581	%
Pb 220.353†	1990.2	21.18	1.06%	[0.50]	mg/L
Pb 217.000†	437.6	8.65	1.98%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 9/6/2014 1:07:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	628911.3	3256.22	0.52%	100.39	%
Pb 220.353†	3919.5	33.29	0.85%	[1.00]	mg/L
Pb 217.000†	852.7	7.36	0.86%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 9/6/2014 1:08:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units

Y 371.029 626824.1 4963.21 0.79% 100.06 %

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Pb 220.353	4	Lin Thru 0	0.0	3932	0.00000	0.999977	
Pb 217.000	3	Lin Thru 0	0.0	857.4	0.00000	0.999938	

User canceled analysis.

Analysis Begun

Start Time: 9/6/2014 1:09:56 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 9/6/2014 1:09:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	620415.8	99.036	%	0.3961				0.40%
Pb 220.353†	1971.3	0.50134	mg/L	0.002833	0.50134	mg/L	0.002833	0.57%
QC value within limits for Pb 220.353 Recovery = 100.27%								
Pb 217.000†	433.4	0.50550	mg/L	0.012268	0.50550	mg/L	0.012268	2.43%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/6/2014 1:10:55 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/6/2014 1:10:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	625512.0	99.850	%	0.3285				0.33%
Pb 220.353†	1.8	0.00047	mg/L	0.001575	0.00047	mg/L	0.001575	334.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.4	-0.00162	mg/L	0.002749	-0.00162	mg/L	0.002749	169.67%

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 9/6/2014 1:12:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	625462.7	99.842	%	0.8518				0.85%
Pb 220.353†	27.1	0.00688	mg/L	0.002718	0.00688	mg/L	0.002718	39.48%
QC value within limits for Pb 220.353 Recovery = 137.69%								
Pb 217.000†	6.8	0.00795	mg/L	0.006236	0.00795	mg/L	0.006236	78.49%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 9/6/2014 1:13:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	627190.1	100.12	%	0.545				0.54%
Pb 220.353†	1890.1	0.48071	mg/L	0.007533	0.48071	mg/L	0.007533	1.57%
QC value within limits for Pb 220.353 Recovery = 96.14%								
Pb 217.000†	453.7	0.52916	mg/L	0.004519	0.52916	mg/L	0.004519	0.85%

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 9/6/2014 1:14:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	626414.3	99.994	%	0.2446				0.24%
Pb 220.353†	-39.1	-0.00995	mg/L	0.000752	-0.00995	mg/L	0.000752	7.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	12.9	0.01500	mg/L	0.000822	0.01500	mg/L	0.000822	5.48%

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-15138
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 9/6/2014 1:15:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15138

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: MB-15138

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	592709.7	94.614	%	1.3798				1.46%
Pb 220.353†	7.0	0.00179	mg/L	0.002709	0.00179	mg/L	0.002709	151.28%
Pb 217.000†	2.8	0.00328	mg/L	0.004845	0.00328	mg/L	0.004845	147.86%

Sequence No.: 17
Sample ID: LCS-15138
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 9/6/2014 1:17:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15138

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: LCS-15138

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	579014.7	92.428	%	0.9001				0.97%
Pb 220.353†	1838.2	0.46750	mg/L	0.006432	0.46750	mg/L	0.006432	1.38%
Pb 217.000†	415.3	0.48443	mg/L	0.002961	0.48443	mg/L	0.002961	0.61%

Matrix Recovery Check: LCS-15138

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Pb 220.353	0.50179	0.46750	0.006	mg/L	93.1
Pb 217.000	0.50328	0.48443	0.003	mg/L	96.2

Sequence No.: 18
Sample ID: 1409136-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 9/6/2014 1:18:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-001A

Analyte	Back Pressure	Flow

All 259.0 kPa 0.55 L/min

Mean Data: 1409136-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	756250.2	120.72	%	0.609				0.50%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.7%								
Pb 220.353†	250.0	0.06357	mg/L	0.001107	0.06357	mg/L	0.001107	1.74%
Pb 217.000†	78.9	0.09201	mg/L	0.003967	0.09201	mg/L	0.003967	4.31%

Internal Standard Check failed. Continue with analysis.

==========

Sequence No.: 19
Sample ID: 1409136-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 9/6/2014 1:19:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-002A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409136-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	694207.8	110.82	%	1.113				1.00%
Pb 220.353†	2012.0	0.51170	mg/L	0.003476	0.51170	mg/L	0.003476	0.68%
Pb 217.000†	553.2	0.64524	mg/L	0.020651	0.64524	mg/L	0.020651	3.20%

==========

Sequence No.: 20
Sample ID: 1409219-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 305
Date Collected: 9/6/2014 1:21:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-001A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	656857.2	104.85	%	0.222				0.21%
Pb 220.353†	444.9	0.11315	mg/L	0.001795	0.11315	mg/L	0.001795	1.59%
Pb 217.000†	163.9	0.19116	mg/L	0.020084	0.19116	mg/L	0.020084	10.51%

==========

Sequence No.: 21
Sample ID: 1409219-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 306
Date Collected: 9/6/2014 1:22:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-002A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-002A

Analyte	Mean Corrected	Calib.			Sample			

Sequence No.: 25
Sample ID: 1409219-006A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 9/6/2014 1:27:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-006A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-006A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	704239.4	112.42	%	0.752				0.67%
Pb 220.353†	308.8	0.07855	mg/L	0.001460	0.07855	mg/L	0.001460	1.86%
Pb 217.000†	120.7	0.14083	mg/L	0.001338	0.14083	mg/L	0.001338	0.95%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:28:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	647937.0	103.43	%	0.508				0.49%
Pb 220.353†	1976.7	0.50274	mg/L	0.007664	0.50274	mg/L	0.007664	1.52%
QC value within limits for Pb 220.353 Recovery = 100.55%								
Pb 217.000†	433.3	0.50538	mg/L	0.002646	0.50538	mg/L	0.002646	0.52%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/6/2014 1:29:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	654398.9	104.46	%	1.306				1.25%
Pb 220.353†	9.2	0.00234	mg/L	0.000403	0.00234	mg/L	0.000403	17.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.5	-0.00056	mg/L	0.000415	-0.00056	mg/L	0.000415	73.93%

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT

Autosampler Location: 3
Date Collected: 9/6/2014 1:31:12 PM

Sample ID: 1409136-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 9/6/2014 1:38:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-001A 2X

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409136-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	736517.6	117.57	%	0.438				0.37%
Pb 220.353†	160.6	0.04085	mg/L	0.002337	0.04085	mg/L	0.002337	5.72%
Pb 217.000†	50.7	0.05908	mg/L	0.003501	0.05908	mg/L	0.003501	5.93%

Sequence No.: 35
Sample ID: 1409219-005A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 317
Date Collected: 9/6/2014 1:40:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-005A 2X

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-005A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	724923.5	115.72	%	1.305				1.13%
Pb 220.353†	239.4	0.06089	mg/L	0.002316	0.06089	mg/L	0.002316	3.80%
Pb 217.000†	72.0	0.08394	mg/L	0.000959	0.08394	mg/L	0.000959	1.14%

Sequence No.: 36
Sample ID: 1409219-008APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 318
Date Collected: 9/6/2014 1:41:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-008APS

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-008APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	671414.2	107.18	%	0.963				0.90%
Pb 220.353†	1644.8	0.41832	mg/L	0.001302	0.41832	mg/L	0.001302	0.31%
Pb 217.000†	427.5	0.49862	mg/L	0.006433	0.49862	mg/L	0.006433	1.29%

Sequence No.: 37
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:42:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	654848.5	104.53	%	0.272				0.26%
Pb 220.353†	1985.2	0.50488	mg/L	0.001096	0.50488	mg/L	0.001096	0.22%
QC value within limits for Pb 220.353 Recovery = 100.98%								
Pb 217.000†	441.8	0.51533	mg/L	0.015787	0.51533	mg/L	0.015787	3.06%

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/6/2014 1:43:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	663385.7	105.90	%	0.294				0.28%
Pb 220.353†	7.8	0.00198	mg/L	0.000903	0.00198	mg/L	0.000903	45.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.1	-0.00129	mg/L	0.003016	-0.00129	mg/L	0.003016	233.99%

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/6/2014 1:45:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

EL 9/6/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	658702.0	105.15	%	1.619				1.54%
Pb 220.353†	6.2	0.00157	mg/L	0.002289	0.00157	mg/L	0.002289	145.60%
Pb 217.000†	-3.5	-0.00408	mg/L	0.006310	-0.00408	mg/L	0.006310	154.49%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: DI RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 7
Date Collected: 9/6/2014 1:46:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: DI RINSE

Analyte	Back Pressure	Flow

✓OF 9/8/2014

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001 **Collection Date:** 9/4/2014 8:42:00 AM
Client Sample ID: FFOR-CF-0063 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.2 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-002 **Collection Date:** 9/4/2014 8:50:00 AM
Client Sample ID: FFOR-CF-0064 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.0 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-003 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0065 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.0 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-004 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0066 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.9 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-005 **Collection Date:** 9/4/2014 9:30:00 AM
Client Sample ID: FFOR-CF-0067 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.4 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.9 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-007 **Collection Date:** 9/4/2014 2:31:00 PM
Client Sample ID: FFOR-CF-0069 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.5 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-008 **Collection Date:** 9/4/2014 2:45:00 PM
Client Sample ID: FFOR-CF-0070 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.8 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Lab ID: 1409219-009 **Collection Date:** 9/4/2014 2:54:00 PM
Client Sample ID: FFOR-CF-0071 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	10 ✓	1.0		wt%	1	R21050	9/5/2014 9:03:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-5-14			Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 9-5-14 9:03am	Start Temp: 110C		Reviewed by: ✓DF 9/8/2014
End time: 9-8-14 8:18am	End Temp: 109C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1409219-001a	31.9 ✓	39.51 ✓				7.5930		#VALUE!
1409219-002a	31.8 ✓	37.18 ✓				5.3730		#VALUE!
1409219-003a	31.7 ✓	39.27 ✓				7.5510		#VALUE!
1409219-004a	31.7 ✓	39.32 ✓				7.6630		#VALUE!
1409219-005a	32.4 ✓	40.40 ✓				7.9960		#VALUE!
1409219-006a	31.9 ✓	39.48 ✓				7.5980		#VALUE!
1409219-007a	32.1 ✓	39.34 ✓				7.2420		#VALUE!
1409219-008a	31.7 ✓	40.18 ✓				8.4400		#VALUE!
1409219-008ams	32.0 ✓	39.66 ✓				7.6630		#VALUE!
1409219-008amsd	31.8 ✓	39.39 ✓				7.5440		#VALUE!
1409219-009a	31.8 ✓	39.16 ✓				7.3510		#VALUE!
MeOH Kits								#VALUE!
1409219-001a	25.7 ✓	39.21 ✓	1.00	2.00	2.00	13.5100	0.0000	0.7402
1409219-002a	25.7 ✓	43.53 ✓	1.00	2.00	2.00	17.8300	0.0000	0.5609
1409219-003a	26.1 ✓	40.94 ✓	1.00	2.00	2.00	14.8400	0.0000	0.6739
1409219-004a	25.7 ✓	39.61 ✓	1.00	2.00	2.00	13.9100	0.0000	0.7189
1409219-005a	25.9 ✓	39.89 ✓	1.00	2.00	2.00	13.9900	0.0000	0.7148
1409219-006a	25.6 ✓	40.32 ✓	1.00	2.00	2.00	14.7200	0.0000	0.6793
1409219-007a	25.7 ✓	40.38 ✓	1.00	2.00	2.00	14.6800	0.0000	0.6812
1409219-008a	25.7 ✓	40.75 ✓	1.00	2.00	2.00	15.0500	0.0000	0.6645
1409219-008ams	25.5 ✓	39.68 ✓	1.00	2.00	2.00	14.1800	0.0000	0.7052
1409219-008amsd	25.9 ✓	40.37 ✓	1.00	2.00	2.00	14.4700	0.0000	0.6911
1409219-009a	25.7 ✓	39.49 ✓	1.00	2.00	2.00	13.7900	0.0000	0.7252

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**
HEAL ID #

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**
HEAL ID #

1409219-001a $\frac{10g}{13.501g} = 0.7402$ cg 9-8-14 ✓DF 9/8/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-5-14		Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg	Thermometer Exp Date: 7/17/2015
Start time: 9-5-14 9:03am	Start Temp: 110C	Reviewed by: ✓ AF 9/8/2014
End time: 9-8-14 8:18am	End Temp: 109C	

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Pmoist								#VALUE!
1409219-001a			1.37 ✓	25.86 ✓	23.84 ✓		8.2483	#VALUE!
1409219-002a			1.36 ✓	24.24 ✓	22.41 ✓		7.9983	#VALUE!
1409219-003a			1.40 ✓	28.12 ✓	26.25 ✓		6.9985	#VALUE!
1409219-004a			1.38 ✓	26.34 ✓	24.63 ✓		6.8510	#VALUE!
1409219-005a			1.36 ✓	23.07 ✓	21.69 ✓		6.3565	#VALUE!
1409219-006a			1.31 ✓	23.67 ✓	21.90 ✓		7.9159	#VALUE!
1409219-007a			1.36 ✓	25.60 ✓	24.02 ✓		6.5182	#VALUE!
1409219-008a			1.39 ✓	20.43 ✓	18.95 ✓		7.7731	#VALUE!
1409219-009a			1.33 ✓	21.60 ✓	19.56 ✓		10.0641	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1409219-003a

$$\frac{28.12 - 26.25}{28.12 - 1.40} \times 100 = 6.9985\%$$

cg 9-8-14

✓ AF 9/8/2014

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

9/8/2014

Prep Start Date: **9/5/2014 9:05:49 A**
Prep End Date: **9/5/2014 10:00:00 A**

Prep Factor Units: **mL / g**

Prep Batch ID: **15137** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Initial Temp: **°C** Final Temp **°C**

cog 9.8.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15137		Solid			5	0	0	5	1.000	9/5/2014	9/5/2014
LCS-15137		Solid			5	0	0	5	1.000	9/5/2014	9/5/2014
1409219-001A	FFOR-CF-0063	MeOH (Soil)			13.51	0	0	5	0.370	9/5/2014	9/5/2014
1409219-002A	FFOR-CF-0064	MeOH (Soil)			17.83	0	0	5	0.280	9/5/2014	9/5/2014
1409219-003A	FFOR-CF-0065	MeOH (Soil)			14.84	0	0	5	0.337	9/5/2014	9/5/2014
1409219-004A	FFOR-CF-0066	MeOH (Soil)			13.91	0	0	5	0.359	9/5/2014	9/5/2014
1409219-005A	FFOR-CF-0067	MeOH (Soil)			13.99	0	0	5	0.357	9/5/2014	9/5/2014
1409219-006A	FFOR-CF-0068	MeOH (Soil)			14.72	0	0	5	0.340	9/5/2014	9/5/2014
1409219-008A	FFOR-CF-0070	MeOH (Soil)			15.05	0	0	5	0.332	9/5/2014	9/5/2014
1409219-008AMS		MeOH (Soil)			14.18	0	0	5	0.353	9/5/2014	9/5/2014
1409219-008AMSD		MeOH (Soil)			14.47	0	0	5	0.346	9/5/2014	9/5/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8073	8260-5035 Low LCS/MS/MSD	lcs/ms/msd	26527	Container-01 of 01	1	µL

9/9/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409219**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001 **Collection Date:** 9/4/2014 8:42:00 AM
Client Sample ID: FFOR-CF-0063 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15134	9/8/2014 1:13:27 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/8/2014 1:13:27 PM
Surr: DNOP	62.5	57.9-140		%REC	1	15134	9/8/2014 1:13:27 PM

Lab ID: 1409219-002 **Collection Date:** 9/4/2014 8:50:00 AM
Client Sample ID: FFOR-CF-0064 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15134	9/8/2014 1:35:19 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/8/2014 1:35:19 PM
Surr: DNOP	70.8	57.9-140		%REC	1	15134	9/8/2014 1:35:19 PM

Lab ID: 1409219-003 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0065 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	13	11		mg/Kg-dry	1	15134	9/8/2014 1:57:13 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/8/2014 1:57:13 PM
Surr: DNOP	86.4	57.9-140		%REC	1	15134	9/8/2014 1:57:13 PM

Lab ID: 1409219-004 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0066 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	6.3	11	J	mg/Kg-dry	1	15134	9/8/2014 2:19:17 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/8/2014 2:19:17 PM
Surr: DNOP	70.5	57.9-140		%REC	1	15134	9/8/2014 2:19:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-005 **Collection Date:** 9/4/2014 9:30:00 AM
Client Sample ID: FFOR-CF-0067 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	10		mg/Kg-dry	1	15134	9/8/2014 3:55:23 PM
Motor Oil Range Organics (MRO)	ND	52		mg/Kg-dry	1	15134	9/8/2014 3:55:23 PM
Surr: DNOP	89.8	57.9-140		%REC	1	15134	9/8/2014 3:55:23 PM

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15134	9/8/2014 4:17:19 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/8/2014 4:17:19 PM
Surr: DNOP	80.4	57.9-140		%REC	1	15134	9/8/2014 4:17:19 PM

Lab ID: 1409219-007 **Collection Date:** 9/4/2014 2:31:00 PM
Client Sample ID: FFOR-CF-0069 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	240	11		mg/Kg-dry	1	15134	9/8/2014 3:03:13 PM
Motor Oil Range Organics (MRO)	230	54		mg/Kg-dry	1	15134	9/8/2014 3:03:13 PM
Surr: DNOP	83.9	57.9-140		%REC	1	15134	9/8/2014 3:03:13 PM

Lab ID: 1409219-008 **Collection Date:** 9/4/2014 2:45:00 PM
Client Sample ID: FFOR-CF-0070 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	27	11		mg/Kg-dry	1	15134	9/7/2014 8:31:38 AM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	15134	9/7/2014 8:31:38 AM
Surr: DNOP	80.0	57.9-140		%REC	1	15134	9/7/2014 8:31:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-009
Collection Date: 9/4/2014 2:54:00 PM
Client Sample ID: FFOR-CF-0071
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	4200	110		mg/Kg-dry	10	15134	9/8/2014 4:39:18 PM
Motor Oil Range Organics (MRO)	ND	560		mg/Kg-dry	10	15134	9/8/2014 4:39:18 PM
Surr: DNOP	0	57.9-140	S	%REC	10	15134	9/8/2014 4:39:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Rev. by: JK 9/9/14

Prep Start Date: 9/5/2014 8:05:35 A
Prep End Date:

Prep Factor Units: mL / g

BN 9.5.14

Prep Batch ID: 15134 Prep Code: 8015_S_PREP Technician: Brenda Nieto

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
			BN 9.5.14							BN 9.5.14	
MB-15134		Soil			10	0	0	10	1.000	9/5/2014	
LCS-15134		Soil			10	0	0	10	1.000	9/5/2014	
1409219-001A	FFOR-CF-0063	MeOH (Soil)			10 10.09	0	0	10	1.000	9/5/2014	
1409219-002A	FFOR-CF-0064	MeOH (Soil)			10 9.99	0	0	10	1.000	9/5/2014	
1409219-003A	FFOR-CF-0065	MeOH (Soil)			10 9.99	0	0	10	1.000	9/5/2014	
1409219-004A	FFOR-CF-0066	MeOH (Soil)			10 9.75	0	0	10	1.000	9/5/2014	
1409219-005A	FFOR-CF-0067	MeOH (Soil)			10 10.19	0	0	10	1.000	9/5/2014	
1409219-006A	FFOR-CF-0068	MeOH (Soil)			10 10.07	0	0	10	1.000	9/5/2014	
1409219-007A	FFOR-CF-0069	MeOH (Soil)			10 9.95	0	0	10	1.000	9/5/2014	
1409219-008A	FFOR-CF-0070	MeOH (Soil)			10 9.95	0	0	10	1.000	9/5/2014	
1409219-008AMS		MeOH (Soil)			10 9.91	0	0	10	1.000	9/5/2014	
1409219-008AMSD		MeOH (Soil)			10 10.03	0	0	10	1.000	9/5/2014	
1409219-009A	FFOR-CF-0071	MeOH (Soil)			10 10.01	0	0	10	1.010	9/5/2014	
1409230-001A	SC-18 N Wall, West C	MeOH (Soil)			9.9	0	0	10	0.990	9/5/2014	
1409230-002A	SC-27 SW Wall @ 0-2	MeOH (Soil)			10.1	0	0	10	1.004	9/5/2014	
1409230-003A	SC-11 N Central Base	MeOH (Soil)			9.96	0	0	10	0.998	9/5/2014	
1409230-004A	SC-8 W Wall @ 7-24'	MeOH (Soil)			10.02	0	0	10	1.000	9/5/2014	
1409233-001A	SB-1@Surface	Soil			10 10.04	0	0	10	1.000	9/5/2014	
1409233-002A	SB-2	Soil			10 10.08	0	0	10	1.000	9/5/2014	
1409233-003A	SB-3	Soil			10 10.00	0	0	10	1.000	9/5/2014	
1409233-004A	SB-4	Soil			10 10.08	0	0	10	1.000	9/5/2014	
1409233-005A	SB-5	Soil			10 9.95	0	0	10	1.000	9/5/2014	
1409233-006A	SB-6	Soil			10 10.06	0	0	10	1.000	9/5/2014	
	#4				10 10.04						

Container# Container ID Amount Added Amount Unit

BN 9.6.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-15139	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15139 <D>.dat	1
6	Unknown	0	1	LCS-15139	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15139 <D>.dat	1
7	Unknown	0	1	MB-15157	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15157 <D>.dat	1
8	Unknown	0	1	LCS-15157	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15157 <D>.dat	1
9	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
10	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
11	Unknown	0	1	1409275-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-002A <D>.dat	1
12	Unknown	0	1	1409275-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-003A <D>.dat	1
13	Unknown	0	1	1409275-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-004A <D>.dat	1
14	Unknown	0	1	1409275-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-005A <D>.dat	1
15	Unknown	0	1	1409275-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-006A <D>.dat	1
16	Unknown	0	1	1409275-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-009A <D>.dat	1
17	Unknown	0	1	1409275-010A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-010A <D>.dat	1
18	Unknown	0	1	1409275-011A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-011A <D>.dat	1

TS 9.8.14

BN 9.6.14

19	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
20	Unknown	0	1	1409276-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001A <D>.dat	1
21	Unknown	0	1	1409276-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001AMS <D>.dat	1
22	Unknown	0	1	1409276-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001AMSD <D>.dat	1
23	Unknown	0	1	1409276-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-002A <D>.dat	1
24	Unknown	0	1	1409276-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-003A <D>.dat	1
25	Unknown	0	1	1409276-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-004A <D>.dat	1
26	Unknown	0	1	1409276-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-005A <D>.dat	1
27	Unknown	0	1	1409277-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-001A <D>.dat	1
28	Unknown	0	1	1409277-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-002A <D>.dat	1
29	Unknown	0	1	1409277-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-003A <D>.dat	1
30	Unknown	0	1	1409277-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-004A <D>.dat	1
31	Unknown	0	1	1409277-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-005A <D>.dat	1
32	Unknown	0	1	1409278-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-001A <D>.dat	1
33	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
34	Unknown	0	1	1409278-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-003A <D>.dat	1
35	Unknown	0	1	1409278-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-004A <D>.dat	1
36	Unknown	0	1	1409278-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-005A <D>.dat	1
37	Unknown	0	1	1409278-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-006A <D>.dat	1

9.8.14

BN 9.6.14

38	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
39	Unknown	0	1	1409219-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-001A <D>.dat	1
40	Unknown	0	1	1409219-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-002A <D>.dat	1
41	Unknown	0	1	1409219-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-003A <D>.dat	1
42	Unknown	0	1	1409219-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
43	Unknown	0	1	1409219-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-005A <D>.dat	1
44	Unknown	0	1	1409219-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
45	Unknown	0	1	1409219-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-007A <D>.dat	1
46	Unknown	0	1	1409219-008A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008A <D>.dat	1
47	Unknown	0	1	1409219-008AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008AMS <D>.dat	1
48	Unknown	0	1	1409219-008AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008AMSD <D>.dat	1
49	Unknown	0	1	1409219-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-009A <D>.dat	1
50	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
51	Unknown	0	1	1409233-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-001A <D>.dat	1
52	Unknown	0	1	1409233-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-002A <D>.dat	1
53	Unknown	0	1	1409233-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-003A <D>.dat	1
54	Unknown	0	1	1409233-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-004A <D>.dat	1
55	Unknown	0	1	1409233-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-005A <D>.dat	1
56	Unknown	0	1	1409233-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-006A <D>.dat	1

JC 9.8.14

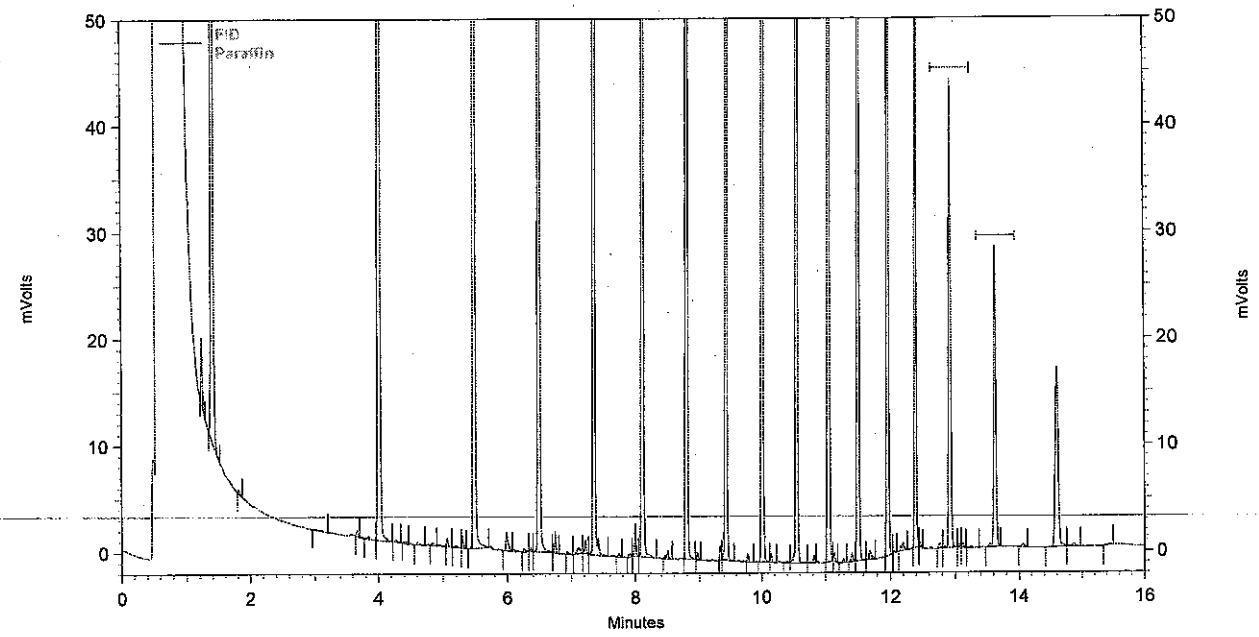
BN 9-6-14

57	Unknown	0	1	1409226-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409226-001A <D>.dat	1
58	Unknown	0	1	1409226-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409226-001A MS <D>.dat	1
59	Unknown	0	1	1409226-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409226-001A MSD <D>.dat	1
60	Unknown	0	1	1409189-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409189-001A <D>.dat	1
61	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

9.8.14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090614\Paraffin 09-06-14 4-46-06 PM.dat
Aquired: 9/6/2014 4:51:22 PM



FID Results

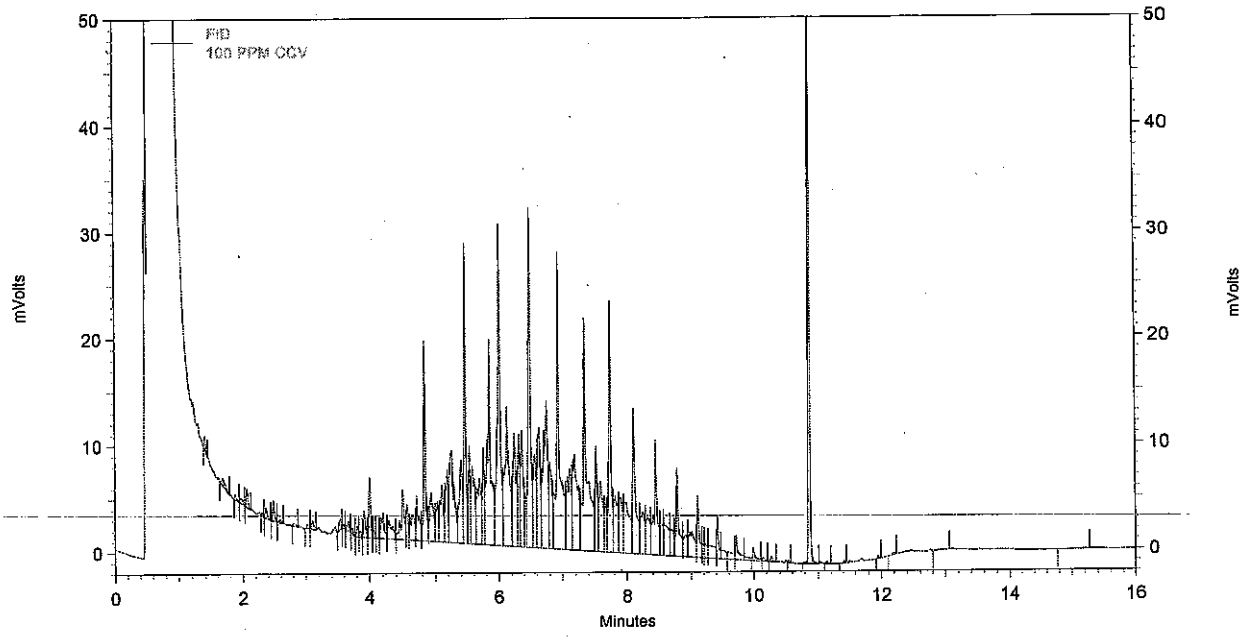
Name	Retention Time	Area	ug/ml
C8	1.397	441439	0.000
C10	4.005	545671	0.000
C12	5.472	520529	0.000
C14	6.485	485985	0.000
C16	7.339	453594	0.000
C18	8.101	419935	0.000
C20	8.789	400107	0.000
C22	9.419	377052	0.000
C24	10.000	358451	0.000
C26	10.539	359457	0.000
C28	11.040	339706	0.000
C30	11.509	285426	0.000
C32	11.952	198705	0.000
C34	12.384	120209	0.000
C36	12.912	81634	0.000
C38	13.621	64167	0.000

Analyst BN

Reviewed By JU

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-06-14 5-07-31 PM.dat
Aquired: 9/6/2014 5:12:40 PM



FID Results

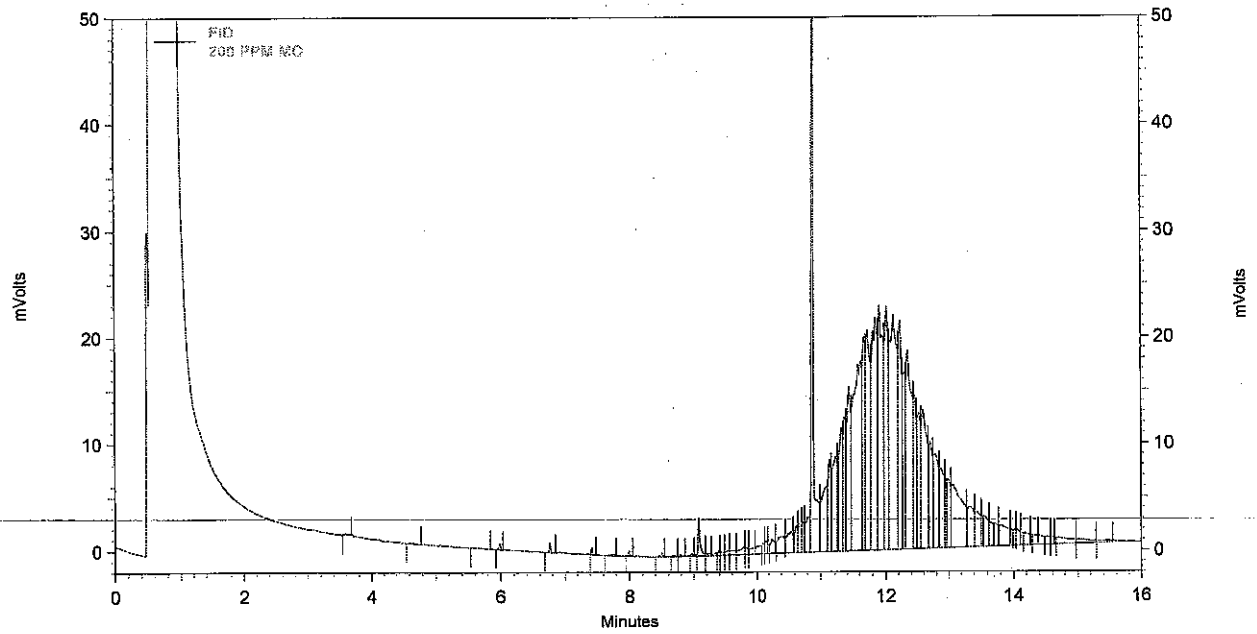
Name	Retention Time	Area	ug/ml
DNOP	10.864	96131	8.542
DRO		1632329	98.981
MRO		2582	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090614\200 PPM MO 09-06-14 5-28-46 PM.dat
Aquired: 9/6/2014 5:34:01 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	141741	12.548
DRO		67895	6.117
MRO		1625336	203.617

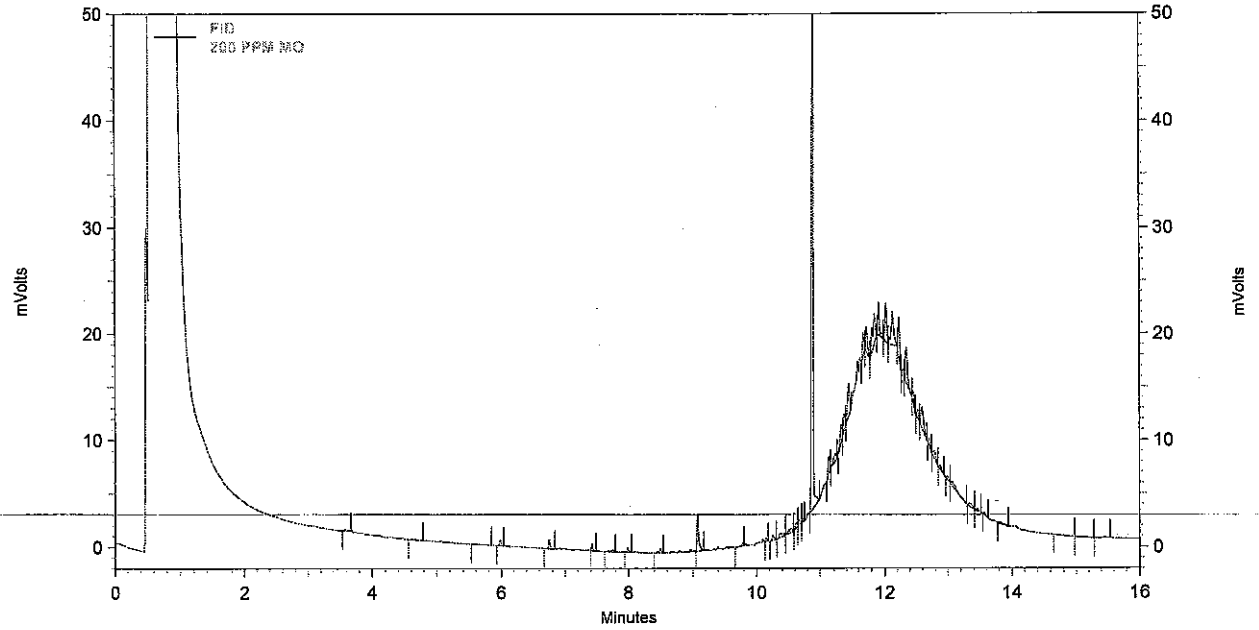
Analyst BN

Reviewed By JC

12.548
+ 9.473
3.075
+203.617
206.692 X100
200
= 103.3% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 09-06-14 5-28-46 PM.dat
Aquired: 9/6/2014 5:34:01 PM



FID Results

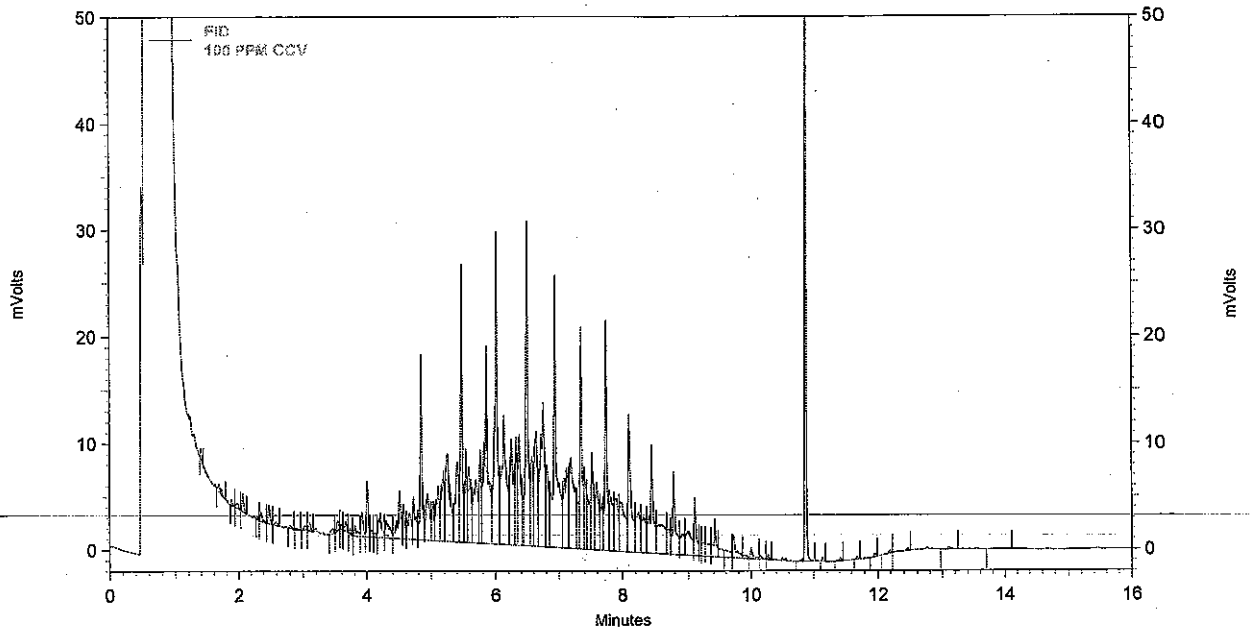
Name	Retention Time	Area	ug/ml
DNOP	10.875	106712	9.473
DRO		19247	3.219
MRO		91019	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-06-14 10-49-01 PM.dat
Aquired: 9/6/2014 10:54:13 PM



FID Results

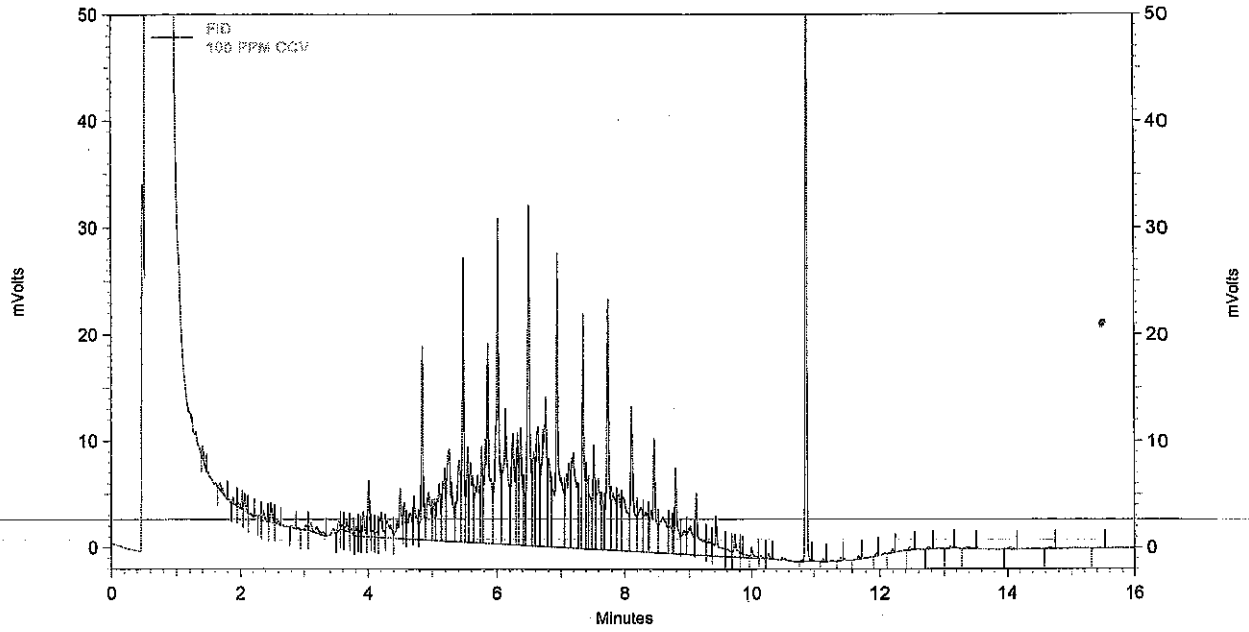
Name	Retention Time	Area	ug/ml
DNOP	10.869	97139	8.631
DRO		1544868	93.807
MRO		5025	0.000

Analyst BV

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-07-14 5-35-12 AM.dat
Aquired: 9/7/2014 5:40:26 AM



FID Results

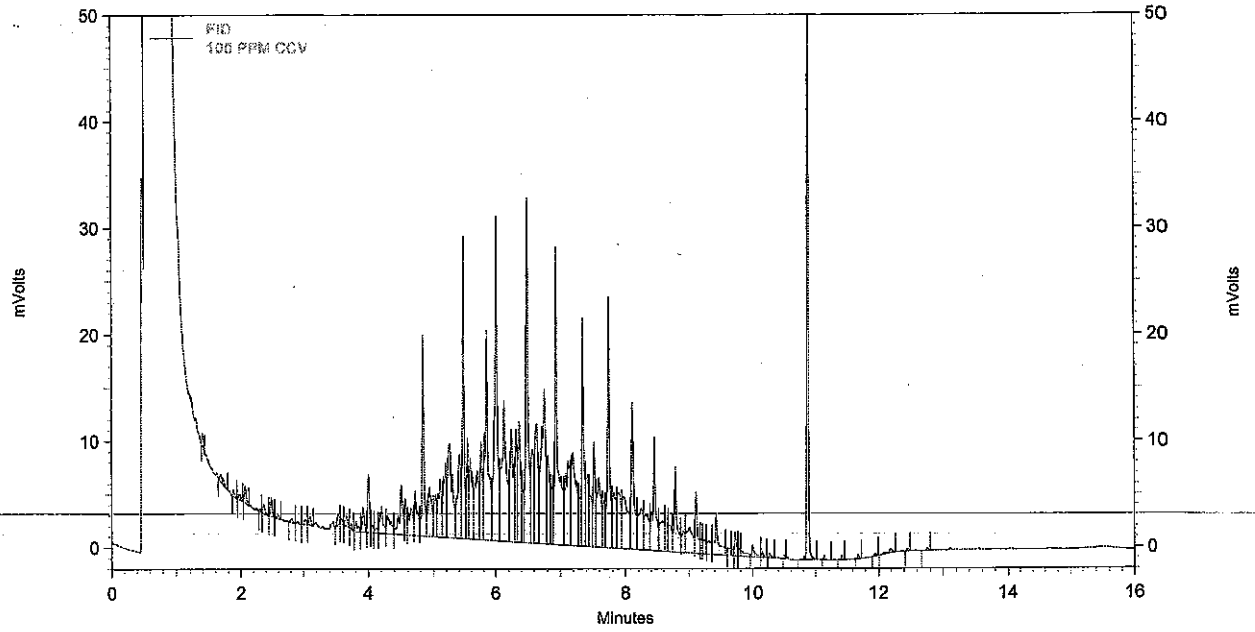
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.869	99756	8.861
DRO		1635039	99.141
MRO		6757	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-07-14 1-46-55 PM.dat
Aquired: 9/7/2014 1:52:02 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.864	95975	8.528
DRO		1636668	99.238
MRO		5288	0.000

Analyst BN

Reviewed By

Sequence Print

BN 9.9.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
6	Unknown	0	1	1409277-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-004A <D>.dat	1
7	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
8	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
9	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
10	Unknown	0	1	1409278-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-003A <D>.dat	1
11	Unknown	0	1	1409278-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-004A <D>.dat	1
12	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
13	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
14	Unknown	0	1	1409219-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-001A <D>.dat	1
15	Unknown	0	1	1409219-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-002A <D>.dat	1
16	Unknown	0	1	1409219-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-003A <D>.dat	1
17	Unknown	0	1	1409219-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
18	Unknown	0	1	1409219-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-007A <D>.dat	1

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BN 9.9.14

19	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
20	Unknown	0	1	1409219-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-005A <D>.dat	1
21	Unknown	0	1	1409219-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-006A <D>.dat	1
22	Unknown	0	1	1409219-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-009A <D>.dat	1
23	Unknown	0	1	1409233-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-003A <D>.dat	1
24	Unknown	0	1	1409233-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-005A <D>.dat	1
25	Unknown	0	1	1409172-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409172-001A <D>.dat	1
26	Unknown	0	2	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
27	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
28	Unknown	0	2	MB-15140	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15140 <D>.dat	1
29	Unknown	0	2	LCS-15140	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15140 <D>.dat	1
30	Unknown	0	2	1409223-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409223-002C <D>.dat	1
31	Unknown	0	2	1409223-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409223-003C <D>.dat	1
32	Unknown	0	2	1409231-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C <D>.dat	1
33	Unknown	0	2	1409231-001CMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C MS <D>.dat	1
34	Unknown	0	2	1409231-001CMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C MSD <D>.dat	1
35	Unknown	0	2	1409231-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-002C <D>.dat	1
36	Unknown	0	2	1409231-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-003C <D>.dat	1
37	Unknown	0	2	1409231-004C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-004C <D>.dat	1

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38	Unknown	0	2	1409231-005C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-005C <D>.dat	1
39	Unknown	0	2	1409231-006C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-006C <D>.dat	1
40	Unknown	0	2	1409316-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409316-001C <D>.dat	1
41	Unknown	0	2	1409316-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409316-003C <D>.dat	1
42	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
43	Unknown	0	2	MB-15117	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-151417 <D>.dat	1
44	Unknown	0	2	LCS-15117	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-151417 <D>.dat	1
45	Unknown	0	2	1409152-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C <D>.dat	1
46	Unknown	0	2	1409152-001CMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C MS <D>.dat	1
47	Unknown	0	2	1409152-001CMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C MSD <D>.dat	1
48	Unknown	0	2	1409152-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-002C <D>.dat	1
49	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
50	Unknown	0	2	MB-15188	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15188 <D>.dat	1
51	Unknown	0	2	LCS-15188	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15188 <D>.dat	1
52	Unknown	0	2	1409340-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-001A <D>.dat	1
53	Unknown	0	2	1409340-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-002A <D>.dat	1
54	Unknown	0	2	1409340-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-003A <D>.dat	1
55	Unknown	0	2	1409340-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-004A <D>.dat	1
56	Unknown	0	2	1409340-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-005A <D>.dat	1

2C BN 9.8.14

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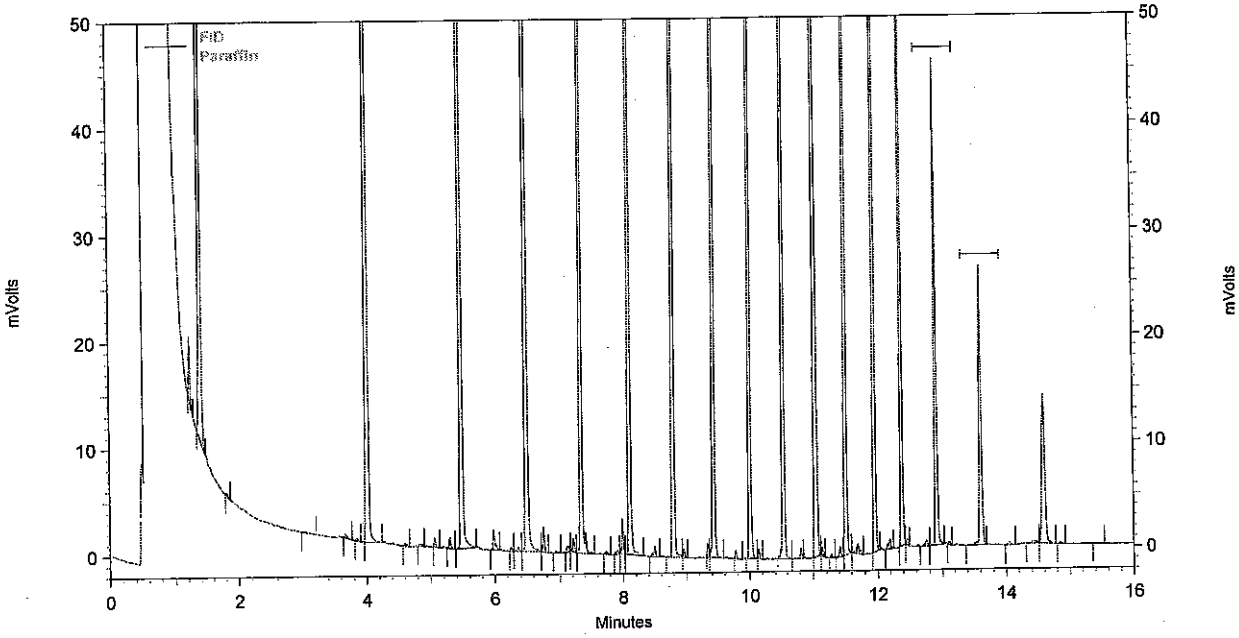
Sequence Print

BN 9.9.14

57	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
58	Unknown	0	2	MB-15170	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15170 <D>.dat	1
59	Unknown	0	2	LCS-15170	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15170 <D>.dat	1
60	Unknown	0	2	1409273-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A <D>.dat	1
61	Unknown	0	2	1409273-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A MS <D>.dat	1
62	Unknown	0	2	1409273-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A MSD <D>.dat	1
63	Unknown	0	2	1409273-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-002A <D>.dat	1
64	Unknown	0	2	1409273-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-003A <D>.dat	1
65	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\Paraffin 09-08-14 8-41-07 AM.dat
Aquired: 9/8/2014 8:46:10 AM



FID Results

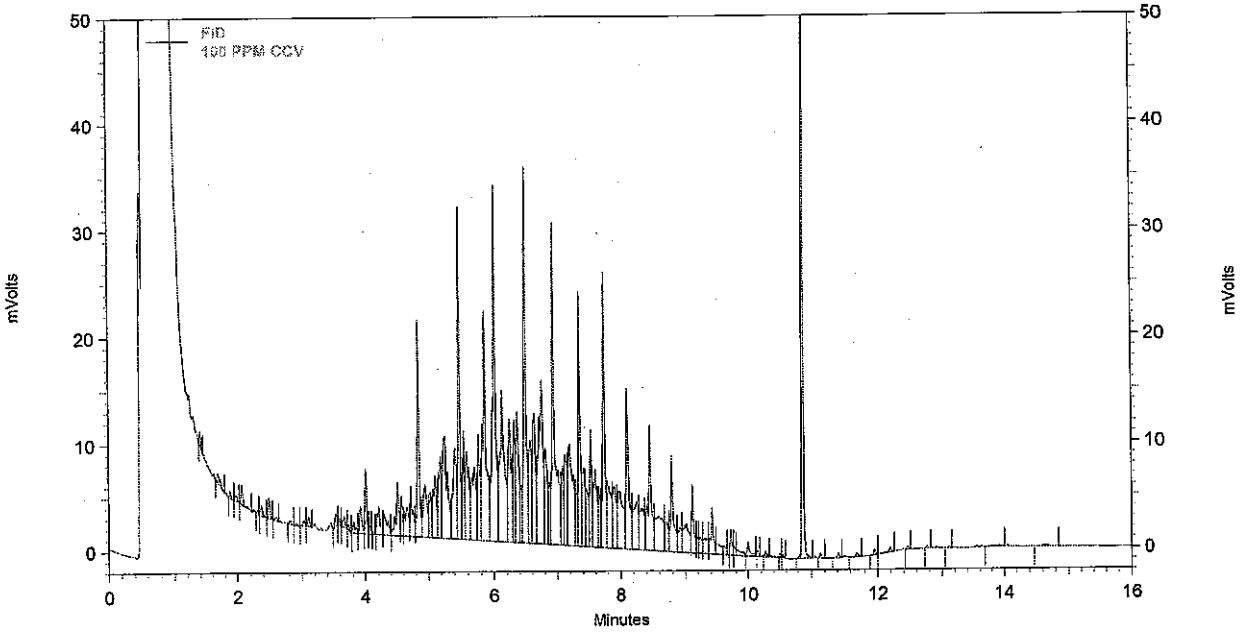
Name	Retention Time	Area	ug/ml
C8	1.392	436419	0.000
C10	4.000	549283	0.000
C12	5.467	531024	0.000
C14	6.485	498634	0.000
C16	7.339	466572	0.000
C18	8.096	433081	0.000
C20	8.784	413625	0.000
C22	9.413	389536	0.000
C24	9.995	369526	0.000
C26	10.533	369784	0.000
C28	11.035	347870	0.000
C30	11.504	291929	0.000
C32	11.947	203409	0.000
C34	12.373	123148	0.000
C36	12.907	83640	0.000
C38	13.616	61038	0.000

Analyst BN

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\100 PPM CCV 09-08-14 9-02-17 AM.dat
Aquired: 9/8/2014 9:07:29 AM



FID Results

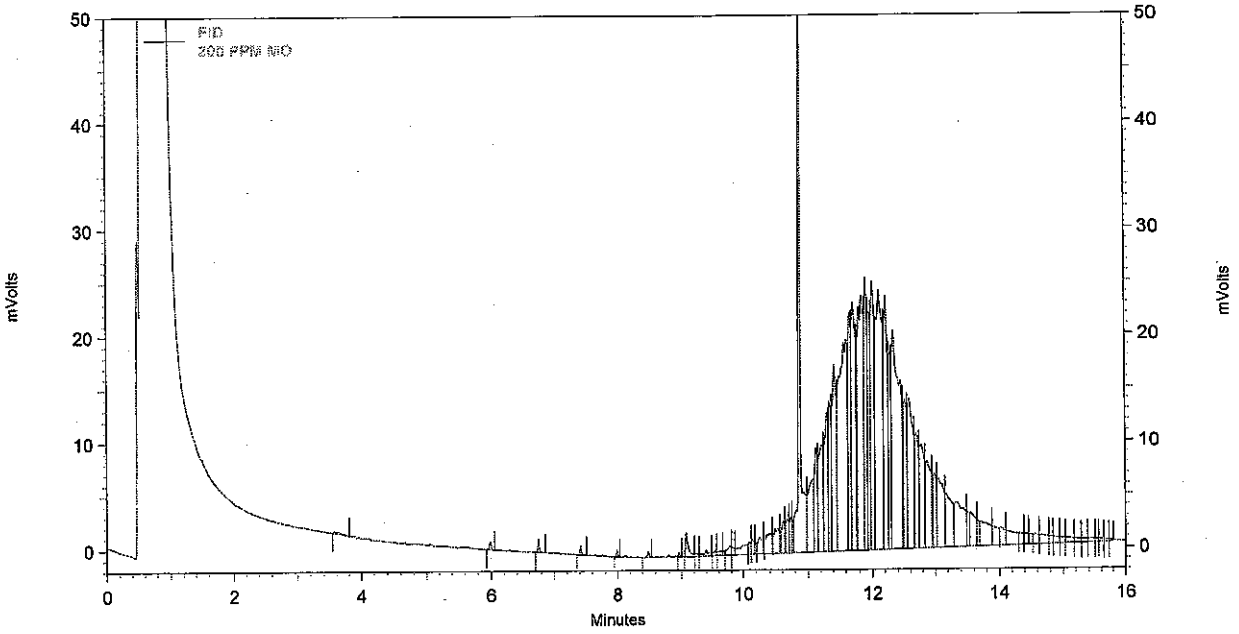
Name	Retention Time	Area	ug/ml
DNOP	10.869	103893	9.225
DRO		1767218	106.958
MRO		6562	0.000

Analyst BW

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\200 PPM MO 09-08-14 9-23-36 AM.dat
Aquired: 9/8/2014 9:28:51 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	167874	14.835
DRO		69351	6.203
MRO		1771589	223.030

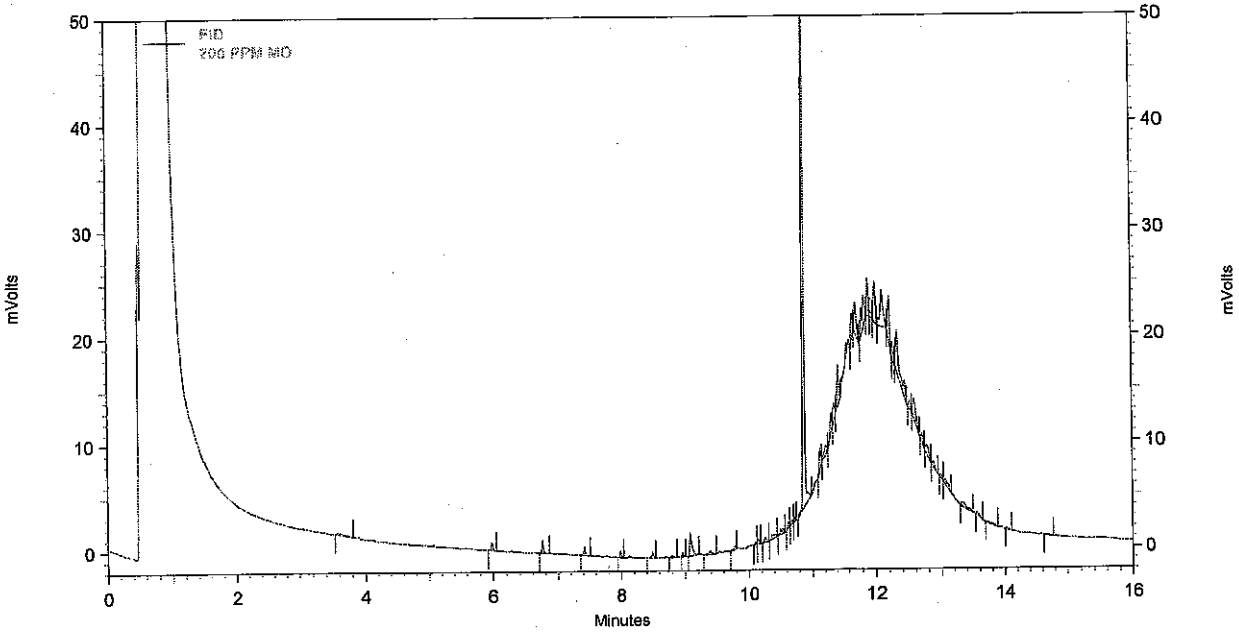
Analyst BW

Reviewed By JS

14.835
-10.063
4.772
+223.030
227.802 x100
200
=113.9%

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\200 PPM MO 09-08-14 9-23-36 AM.dat
Aquired: 9/8/2014 9:28:51 AM



FID Results

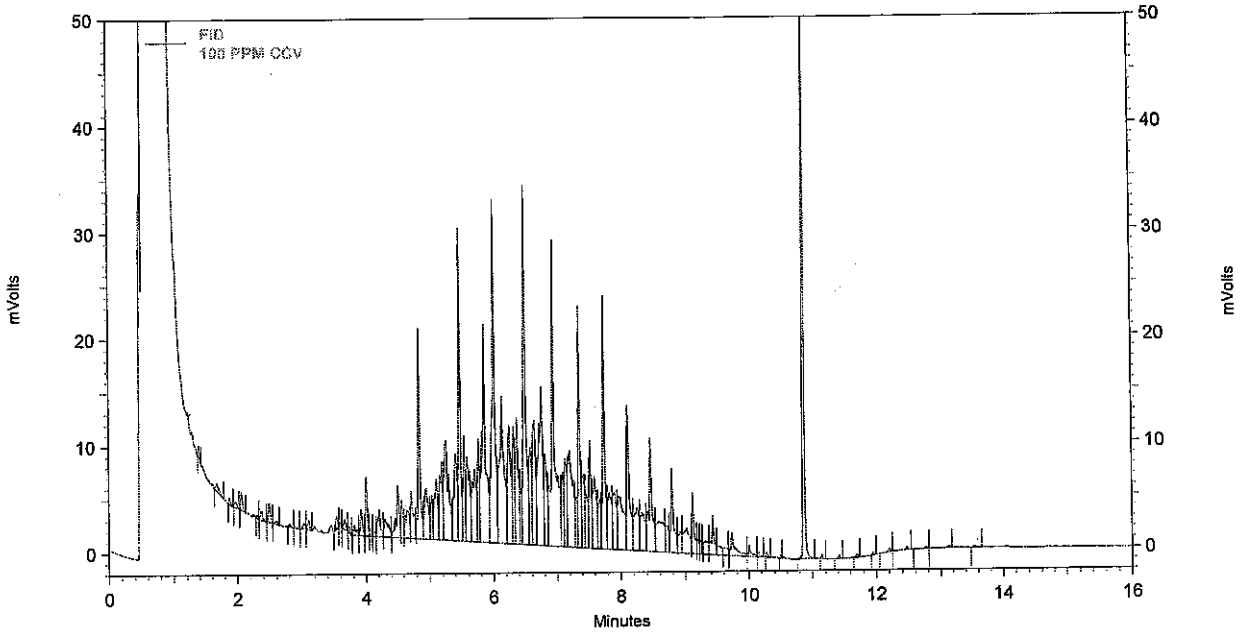
Name	Retention Time	Area	ug/ml
DNOP	10.869	113421	10.063
DRO		20769	3.309
MRO		105969	1.938

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-08-14 12-21-00 PM.dat
Aquired: 9/8/2014 12:26:34 PM



FID Results

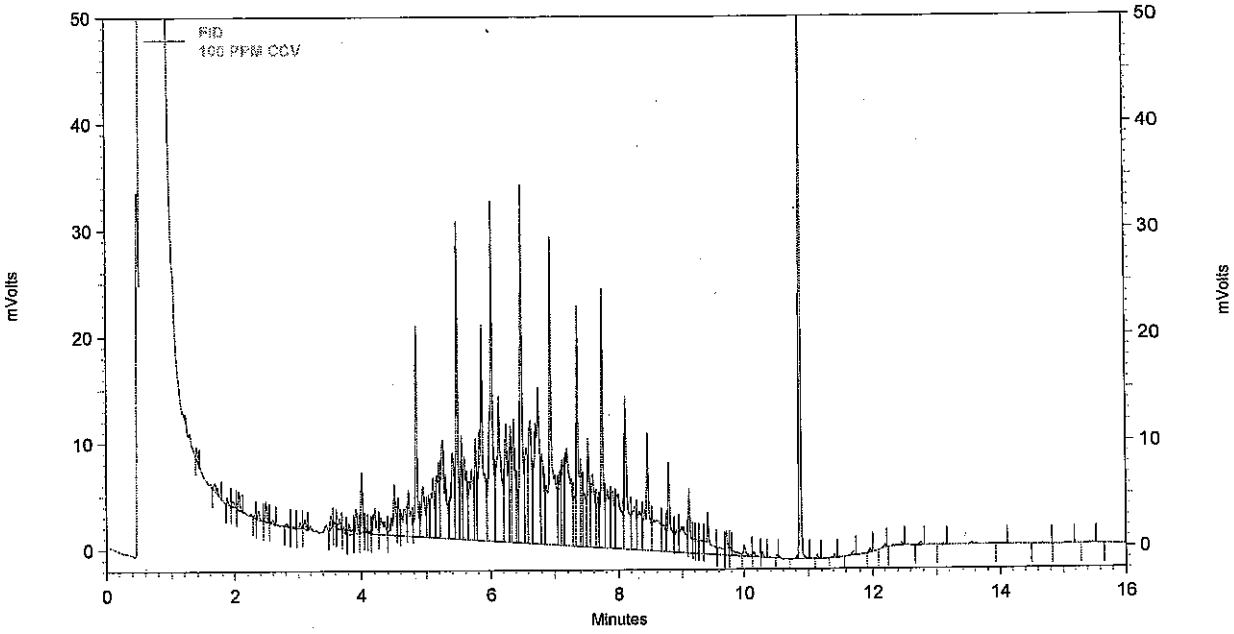
Name	Retention Time	Area	ug/ml
DNOP	10.869	97164	8.633
DRO		1690919	102.446
MRO		5396	0.000

Analyst BW

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\100 PPM CCV 09-08-14 6-44-58 PM.dat
Aquired: 9/8/2014 6:50:49 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	101800	9.041
DRO		1660228	100.631
MRO		5986	0.000

Analyst BW

Reviewed By

8015D DRO
Calibration Summary

Instrument: DANTE

Date: 08/27/14 + 08/28/14

Method: 8015 D

Calibration Name: 082814DRO MRO.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

DRO 8-pt. curve ran 08/27/14

MRO 3-pt. curve ran 08/28/14

Analyst: [signature]

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

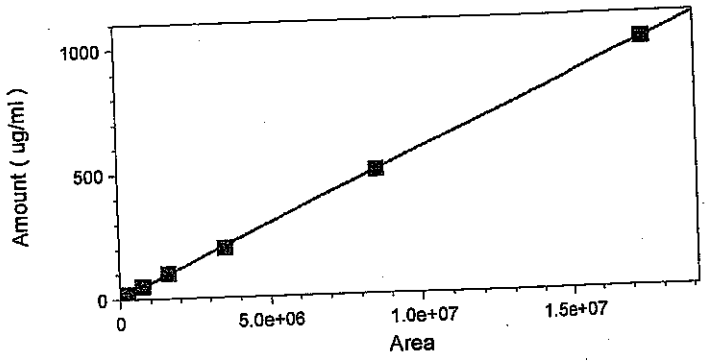
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.81114e-005 RF StDev: 1.13089e-005 RF %RSD: 16.6036
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.33282e-013x^2 + 5.95864e-005x + 2.07170
Goodness of fit (r^2): 0.999851

8/28/14

Group: DRO -- ESTD -- FID-AL1



8/28/14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49506	116786	262275	750680	1598005
RF	8.079828707 6314e-005	8.56267018306 989e-005	7.625583833762 27e-005	6.660627697554 22e-005	6.2578026977 3874e-005
Last Area					
Residual	-1.02126	0.971261	2.30944	3.27309	3.04928
Rep StDev					
Rep %RSD					
Rep 1 Area	49506	116786	262275	750680	1598005
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

Amount	200	300	500		1000
Area	3514780		8527481		17394529
RF	5.690256573 66891e-005		5.863396236239 05e-005		5.748934047021 34e-005
Last Area					
Residual	-9.85828	N/A	-0.501613		1.77808
Rep StDev					
Rep %RSD					
Rep 1 Area	3514780		8527481		17394529
Rep 1 User	System		System		System
Rep 1 Data File	H:\EZsemi\80 15dro\Data 2014\Dante\D ata\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015 dro\Data 2014\Dante\Data \500 PPM 08-27-14 6-15-38 PM.dat		H:\EZsemi\8015 dro\Data 2014\Dante\Data \1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM		1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM		8/28/2014 9:00:54 AM

Calibration Report

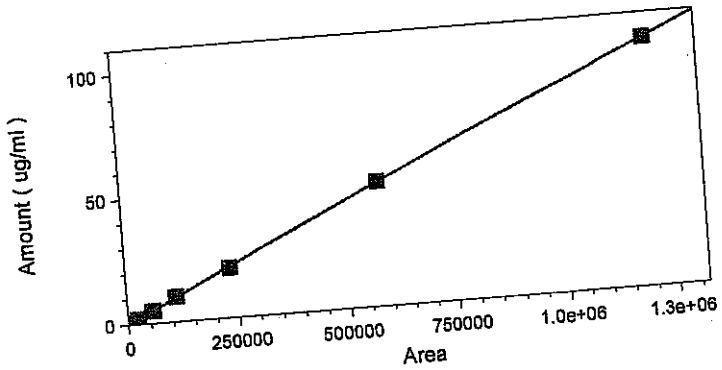
Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 8.78371e-005 RF StDev: 6.58129e-006 RF %RSD: 7.49260
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.39616e-012x^2 + 8.88806e-005x + 0.0382291
Goodness of fit (r^2): 0.999943

JE 8/28/14

9.2.14

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5280	10206	22113	55344	108620
RF	7.575757575 75758e-005	9.79815794630 609e-005	9.044453488897 93e-005	9.034403006649 32e-005	9.2064076597 3117e-005
Last Area Residual	-0.107396	0.0551132	-0.00149656	0.0562272	0.359425
Rep StDev					
Rep %RSD					
Rep 1 Area	5280	10206	22113	55344	108620
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

Amount	20	30	50	100
Area	233394		576145	1195754
RF	8.569200579 27796e-005		8.678370896215 36e-005	8.362924146605 41e-005
Last Area				
Residual	-0.542961	N/A	0.212922	-0.0318333
Rep StDev				
Rep %RSD				
Rep 1 Area	233394		576145	1195754
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

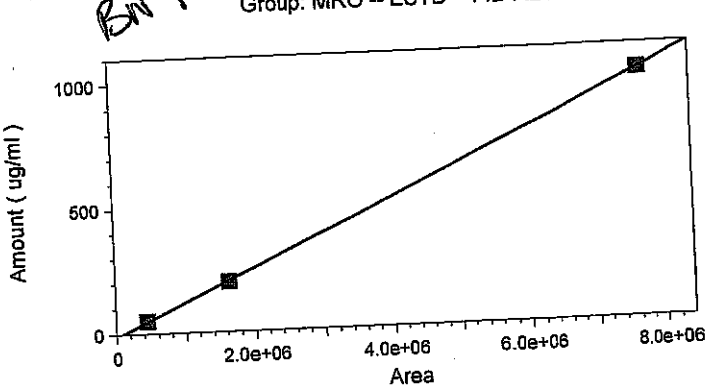
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000122404 RF StDev: 8.98680e-006 RF %RSD: 7.34194
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000132739x - 12.1282
Goodness of fit (r^2): 0.999941

BM 9.28.14

TX 9.24.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	441412	1630009	7619675
RF	0.000113272	0.00012269870	0.000131239193
	860728752	9025533	272679
Last Area Residual	3.53566	-4.23728	0.701621
Rep StDev			
Rep %RSD			
Rep 1 Area	441412	1630009	7619675
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\50ppm MO 08-28-14 9-24-07 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\200ppm MO 08-28-14 9-44-33 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO 08-28-14 10-06-17 AM.dat
Rep 1 Sample ID	50ppm MO	200ppm MO	1,000ppm MO

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

Rep 1 Calib. Time	8/28/2014 10:35:56 AM	8/28/2014 10:36:11 AM	8/28/2014 10:36:27 AM

equence Print

JL 8/28/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

JV 8.28.14

equence Print

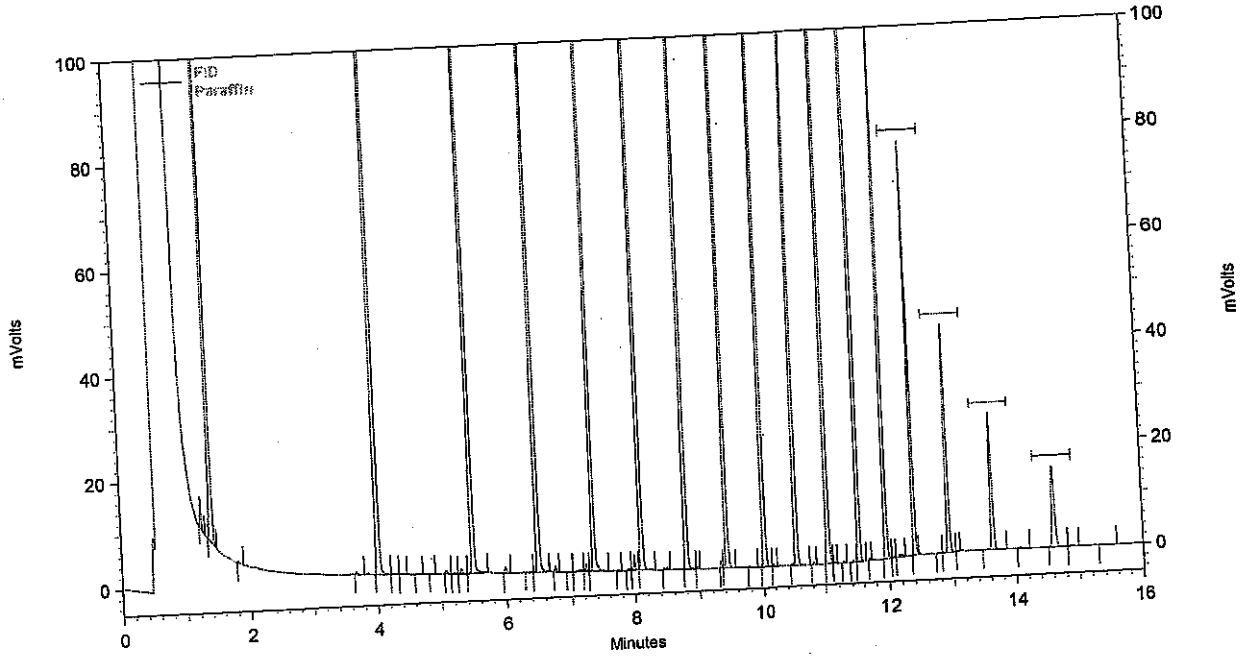
BN 8.28.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	50ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50ppm MO <D>.dat	1
4	Unknown	0	1	200ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO <D>.dat	1
5	Unknown	0	1	1,000ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO <D>.dat	1
6	Unknown	0	1	200ppm MO ICV	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO ICV <D>.dat	1

8.28.14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\082714 CRV\Paraffin 08-27-14 9-49-29 AM.dat
Aquired: 8/27/2014 9:54:35 AM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.397	416007	0.000
C10	4.011	509856	0.000
C12	5.477	493256	0.000
C14	6.491	472686	0.000
C16	7.344	455644	0.000
C18	8.101	432215	0.000
C20	8.795	418784	0.000
C22	9.424	398004	0.000
C24	10.005	379860	0.000
C26	10.544	381599	0.000
C28	11.045	361363	0.000
C30	11.515	302758	0.000
C32	11.957	207849	0.000
C34	12.389	122586	0.000
C36	12.923	79189	0.000
C38	13.632	59177	0.000
C40	14.608	49123	0.000

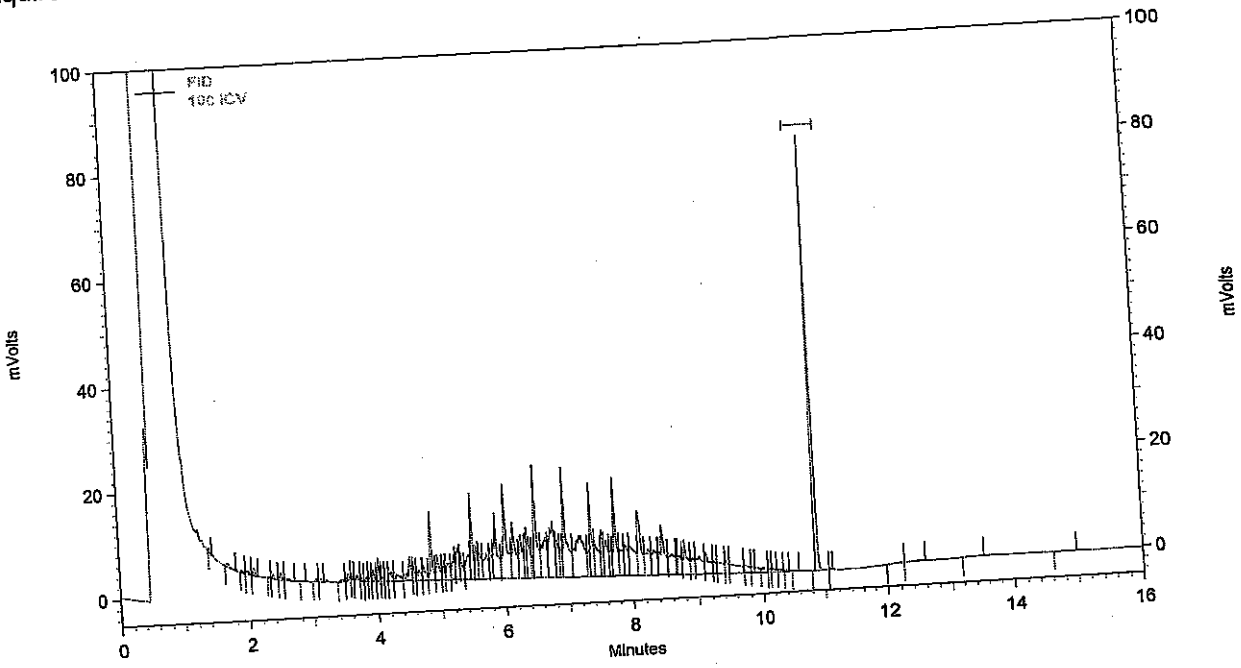
Analyst _____

Reviewed By _____

updated ret. times

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1557**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV 08-27-14 6-58-21 PM.dat
Aquired: 8/27/2014 7:03:37 PM



FID Results			
Name	Retention Time	**Area**	**ug/ml**
DNOP	10.875	116788	10.358
DRO		1468072	89.262

± 20%

Analyst _____

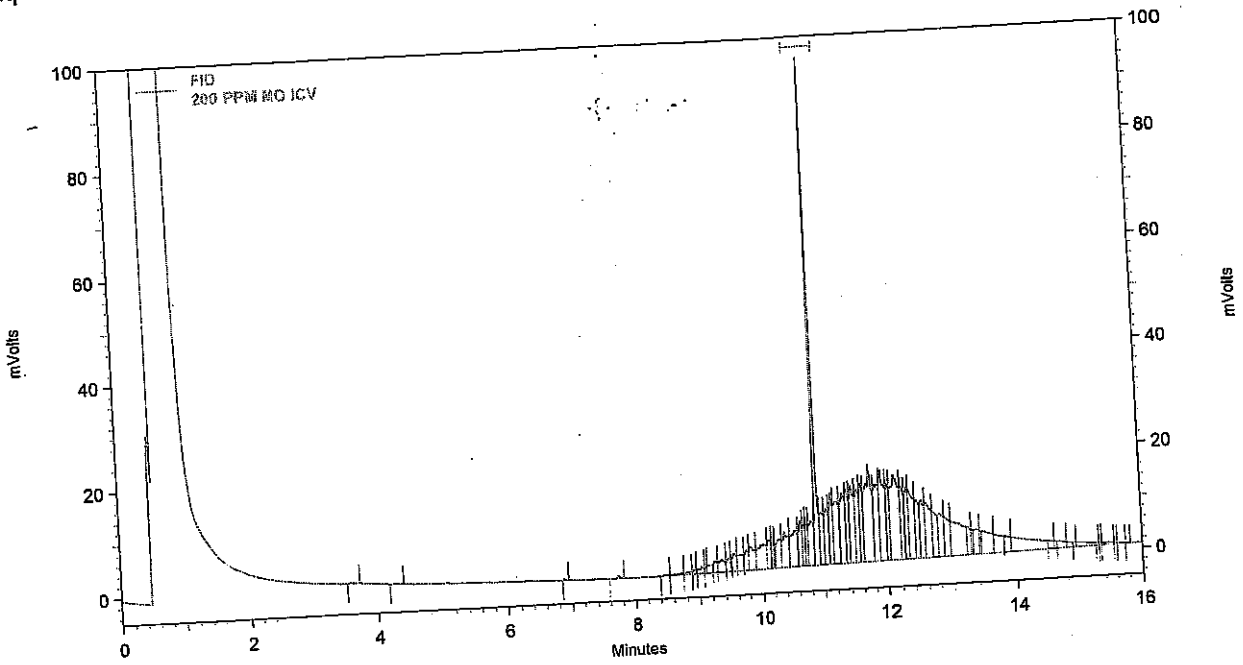
Reviewed By _____

Instrument: **Dante (Offline)**
Sample ID: **200 PPM MO ICV**

Vial #: **7**
Data Description: **SV109-1569**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	163365	14.441
DRO		339420	22.281
MRO		1566946	195.866

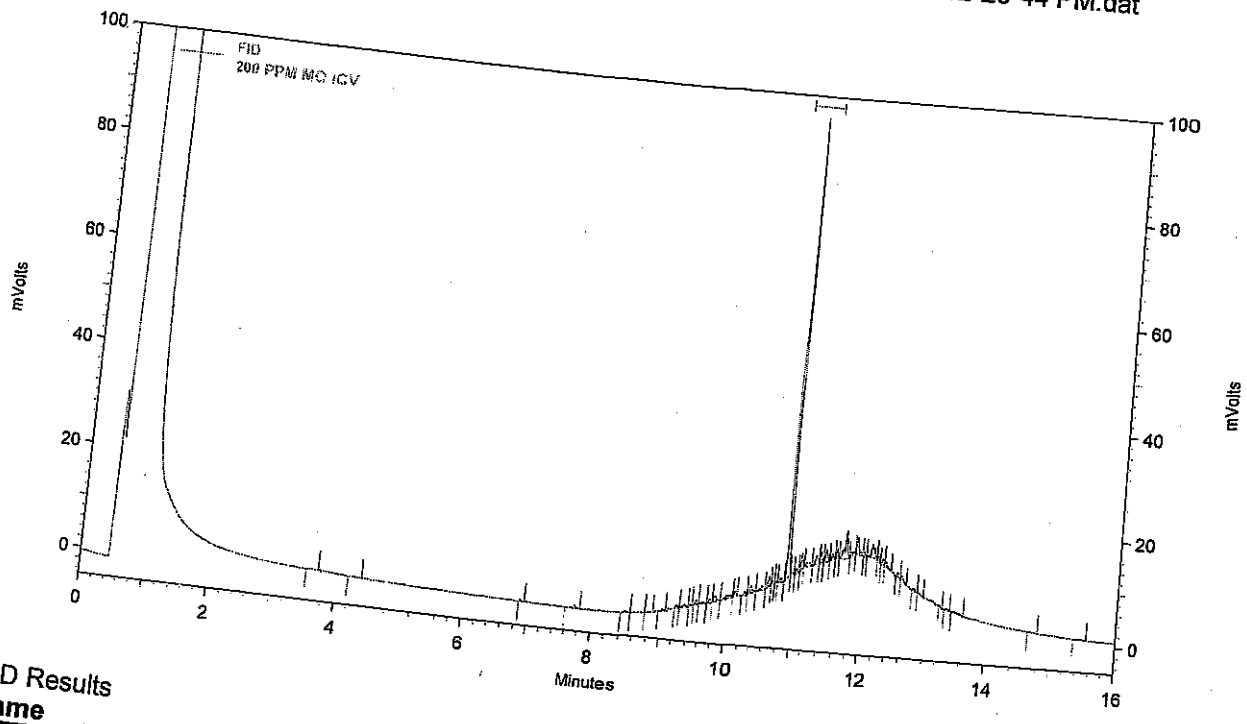
Analyst BW

Reviewed By JO

14.441
- 10.528
3.913
+195.866
199.779
200 x100
= 99.889%

Instrument: **Dante (Offline)**
Sample ID: **200 PPM MO ICV** Vial #: **7**
Data Description: **SV109-1569** User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	118723	10.528
DRO		32486	4.007
MRO		82554	0.000

Analyst _____

Reviewed By _____

9/3/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409219**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001 **Collection Date:** 9/4/2014 8:42:00 AM
Client Sample ID: FFOR-CF-0063 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg-dry	1	R21086	9/8/2014 11:59:31 AM
Surr: BFB	99.9	61.2-137		%REC	1	R21086	9/8/2014 11:59:31 AM

Lab ID: 1409219-002 **Collection Date:** 9/4/2014 8:50:00 AM
Client Sample ID: FFOR-CF-0064 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg-dry	1	R21086	9/8/2014 12:27:36 PM
Surr: BFB	110	61.2-137		%REC	1	R21086	9/8/2014 12:27:36 PM

Lab ID: 1409219-003 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0065 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	1.2	3.6	J	mg/Kg-dry	1	R21061	9/5/2014 3:07:43 PM
Surr: BFB	109	61.2-137		%REC	1	R21061	9/5/2014 3:07:43 PM

Lab ID: 1409219-004 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0066 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	0.90	3.9	J	mg/Kg-dry	1	R21061	9/5/2014 3:35:59 PM
Surr: BFB	103	61.2-137		%REC	1	R21061	9/5/2014 3:35:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-005 **Collection Date:** 9/4/2014 9:30:00 AM
Client Sample ID: FFOR-CF-0067 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg-dry	1	R21061	9/5/2014 4:04:09 PM
Surr: BFB	107	61.2-137		%REC	1	R21061	9/5/2014 4:04:09 PM

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg-dry	1	R21061	9/5/2014 4:32:17 PM
Surr: BFB	103	61.2-137		%REC	1	R21061	9/5/2014 4:32:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-007
Client Sample ID: FFOR-CF-0069
Collection Date: 9/4/2014 2:31:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Toluene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Ethylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Methyl tert-butyl ether (MTBE)	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2,4-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,3,5-Trimethylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2-Dichloroethane (EDC)	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2-Dibromoethane (EDB)	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Naphthalene	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Acetone	ND	0.55		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Bromobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Bromodichloromethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Bromoform	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Bromomethane	ND	0.11		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
2-Butanone	ND	0.36		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Carbon disulfide	ND	0.36		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Carbon tetrachloride	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Chlorobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Chloroethane	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Chloroform	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Chloromethane	ND	0.11		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
2-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
4-Chlorotoluene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
cis-1,2-DCE	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
cis-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2-Dibromo-3-chloropropane	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Dibromochloromethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Dibromomethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,3-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,4-Dichlorobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Dichlorodifluoromethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1-Dichloroethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1-Dichloroethene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2-Dichloropropane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,3-Dichloropropane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
2,2-Dichloropropane	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1-Dichloropropene	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Hexachlorobutadiene	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	0.36		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Isopropylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
4-Isopropyltoluene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
4-Methyl-2-pentanone	ND	0.36		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Methylene chloride	0.033	0.11	J	mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
n-Butylbenzene	ND	0.11		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
n-Propylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
sec-Butylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Styrene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
tert-Butylbenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1,1,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1,2,2-Tetrachloroethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Tetrachloroethene (PCE)	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
trans-1,2-DCE	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
trans-1,3-Dichloropropene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2,3-Trichlorobenzene	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2,4-Trichlorobenzene	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1,1-Trichloroethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,1,2-Trichloroethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Trichloroethene (TCE)	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Trichlorofluoromethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
1,2,3-Trichloropropane	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Vinyl chloride	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Xylenes, Total	ND	0.073		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Bromochloromethane	ND	0.036		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Vinyl acetate	ND	0.36		mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Surr: Dibromofluoromethane	85.2	70-130		%REC	1	R21061	9/5/2014 12:46:46 PM
Surr: 1,2-Dichloroethane-d4	84.3	70-130		%REC	1	R21061	9/5/2014 12:46:46 PM
Surr: Toluene-d8	97.3	70-130		%REC	1	R21061	9/5/2014 12:46:46 PM
Surr: 4-Bromofluorobenzene	92.5	70-130		%REC	1	R21061	9/5/2014 12:46:46 PM

Comment: DUE 09/09/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	1.9	3.6	J	mg/Kg-dry	1	R21061	9/5/2014 12:46:46 PM
Surr: BFB	109	61.2-137		%REC	1	R21061	9/5/2014 12:46:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-008
Client Sample ID: FFOR-CF-0070
Collection Date: 9/4/2014 2:45:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	1.6	3.6	J	mg/Kg-dry	1	R21061	9/5/2014 5:00:31 PM
Surr: BFB	111	61.2-137		%REC	1	R21061	9/5/2014 5:00:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-009
Client Sample ID: FFOR-CF-0071
Collection Date: 9/4/2014 2:54:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Toluene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Ethylbenzene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2,4-Trimethylbenzene	0.31	0.40	J	mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,3,5-Trimethylbenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,2-Dichloroethane (EDC)	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2-Dibromoethane (EDB)	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Naphthalene	0.31	0.81	J	mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Acetone	ND	0.60		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Bromobenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Bromodichloromethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Bromoform	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Bromomethane	ND	0.12		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
2-Butanone	ND	0.40		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Carbon disulfide	ND	0.40		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Carbon tetrachloride	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Chlorobenzene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Chloroethane	ND	0.081		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Chloroform	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Chloromethane	ND	0.12		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
2-Chlorotoluene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
4-Chlorotoluene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
cis-1,2-DCE	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
cis-1,3-Dichloropropene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2-Dibromo-3-chloropropane	ND	0.81		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Dibromochloromethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Dibromomethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,3-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,4-Dichlorobenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Dichlorodifluoromethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,1-Dichloroethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,1-Dichloroethene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2-Dichloropropane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,3-Dichloropropane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
2,2-Dichloropropane	ND	0.081		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,1-Dichloropropene	ND	0.081		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Hexachlorobutadiene	ND	0.81		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Comment: DUE 09/09/2014

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	0.40		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Isopropylbenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
4-Isopropyltoluene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
4-Methyl-2-pentanone	ND	0.40		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Methylene chloride	0.040	0.12	J	mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
n-Butylbenzene	0.15	1.2	J	mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
n-Propylbenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
sec-Butylbenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Styrene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
tert-Butylbenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,1,1,2-Tetrachloroethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,1,2,2-Tetrachloroethane	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Tetrachloroethene (PCE)	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
trans-1,2-DCE	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
trans-1,3-Dichloropropene	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2,3-Trichlorobenzene	ND	0.81		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,2,4-Trichlorobenzene	ND	0.40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
1,1,1-Trichloroethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,1,2-Trichloroethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Trichloroethene (TCE)	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Trichlorofluoromethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
1,2,3-Trichloropropane	ND	0.81		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Vinyl chloride	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Xylenes, Total	ND	0.081		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Bromochloromethane	ND	0.040		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Vinyl acetate	ND	0.40		mg/Kg-dry	1	R21061	9/5/2014 1:15:00 PM
Surr: Dibromofluoromethane	83.9	70-130		%REC	1	R21061	9/5/2014 1:15:00 PM
Surr: 1,2-Dichloroethane-d4	86.5	70-130		%REC	1	R21061	9/5/2014 1:15:00 PM
Surr: Toluene-d8	90.2	70-130		%REC	1	R21061	9/5/2014 1:15:00 PM
Surr: 4-Bromofluorobenzene	179	70-130	S	%REC	10	R21086	9/8/2014 6:05:28 PM

Comment: DUE 09/09/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	430	40		mg/Kg-dry	10	R21086	9/8/2014 6:05:28 PM
Surr: BFB	168	61.2-137	S	%REC	10	R21086	9/8/2014 6:05:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-010
Collection Date:
Client Sample ID: MEOH BLANK
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment:							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Toluene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Naphthalene	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Acetone	ND	0.75		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Bromobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Bromoform	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Bromomethane	ND	0.15		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
2-Butanone	ND	0.50		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Chloroethane	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Chloroform	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Chloromethane	ND	0.15		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Dibromomethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment:

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Methylene chloride	0.053	0.15	J	mg/Kg	1	R21061	9/5/2014 12:18:34 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Styrene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	R21061	9/5/2014 12:18:34 PM
Surr: 1,2-Dichloroethane-d4	86.1	70-130		%REC	1	R21061	9/5/2014 12:18:34 PM
Surr: Toluene-d8	98.3	70-130		%REC	1	R21061	9/5/2014 12:18:34 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	R21061	9/5/2014 12:18:34 PM

Comment:

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R21061	9/5/2014 12:18:34 PM
Surr: BFB	99.5	61.2-137		%REC	1	R21061	9/5/2014 12:18:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RPD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

JM 9.9.14

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001
Client Sample ID: FFOR-CF-0063
Collection Date: 9/4/2014 8:42:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Toluene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Ethylbenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Xylenes, Total	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2,4-Trimethylbenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,3,5-Trimethylbenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2-Dichloroethane (EDC)	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2-Dibromoethane (EDB)	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Naphthalene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Acetone	0.00417	0.00370		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Bromobenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Bromodichloromethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Bromoform	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Bromomethane	0.000493	0.00185	J	mg/Kg	1	15137	9/5/2014 12:35:13 PM
2-Butanone	ND	0.00370		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Carbon tetrachloride	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Chlorobenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Chloroethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Chloroform	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Chloromethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
2-Chlorotoluene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Carbon disulfide	ND	0.00370		mg/Kg	1	15137	9/5/2014 12:35:13 PM
4-Chlorotoluene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
cis-1,2-DCE	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
cis-1,3-Dichloropropene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2-Dibromo-3-chloropropane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Dibromochloromethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Dibromomethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2-Dichlorobenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,3-Dichlorobenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,4-Dichlorobenzene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
Dichlorodifluoromethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1-Dichloroethane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1-Dichloroethene	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2-Dichloropropane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,3-Dichloropropane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM
2,2-Dichloropropane	ND	0.000740		mg/Kg	1	15137	9/5/2014 12:35:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Hexachlorobutadiene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Isopropylbenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
4-Isopropyltoluene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Methylene chloride	ND	0.00185	mg/Kg	1	15137	9/5/2014 12:35:13 PM
n-Butylbenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
2-Hexanone	ND	0.00370	mg/Kg	1	15137	9/5/2014 12:35:13 PM
n-Propylbenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
sec-Butylbenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Styrene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
4-Methyl-2-pentanone	ND	0.00370	mg/Kg	1	15137	9/5/2014 12:35:13 PM
tert-Butylbenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1,1,2-Tetrachloroethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1,2,2-Tetrachloroethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Tetrachloroethene (PCE)	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
trans-1,2-DCE	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
trans-1,3-Dichloropropene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2,3-Trichlorobenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2,4-Trichlorobenzene	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1,1-Trichloroethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,1,2-Trichloroethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Trichloroethene (TCE)	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Trichlorofluoromethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
1,2,3-Trichloropropane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Vinyl chloride	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Vinyl acetate	ND	0.00370	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Bromochloromethane	ND	0.000740	mg/Kg	1	15137	9/5/2014 12:35:13 PM
Surr: 1,2-Dichloroethane-d4	115	70-130	%REC	1	15137	9/5/2014 12:35:13 PM
Surr: 4-Bromofluorobenzene	107	65.3-135	%REC	1	15137	9/5/2014 12:35:13 PM
Surr: Dibromofluoromethane	106	70-130	%REC	1	15137	9/5/2014 12:35:13 PM
Surr: Toluene-d8	99.4	70-130	%REC	1	15137	9/5/2014 12:35:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-002
Collection Date: 9/4/2014 8:50:00 AM
Client Sample ID: FFOR-CF-0064
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Toluene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Ethylbenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Xylenes, Total	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Methyl tert-butyl ether (MTBE)	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2,4-Trimethylbenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,3,5-Trimethylbenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2-Dichloroethane (EDC)	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2-Dibromoethane (EDB)	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Naphthalene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Acetone	0.00412	0.00305		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Bromobenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Bromodichloromethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Bromoform	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Bromomethane	0.000401	0.00152	J	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
2-Butanone	ND	0.00305		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Carbon tetrachloride	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Chlorobenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Chloroethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Chloroform	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Chloromethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
2-Chlorotoluene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Carbon disulfide	ND	0.00305		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
4-Chlorotoluene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
cis-1,2-DCE	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
cis-1,3-Dichloropropene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2-Dibromo-3-chloropropane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Dibromochloromethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Dibromomethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2-Dichlorobenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,3-Dichlorobenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,4-Dichlorobenzene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Dichlorodifluoromethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1-Dichloroethane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1-Dichloroethene	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2-Dichloropropane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,3-Dichloropropane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
2,2-Dichloropropane	ND	0.000610		mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Hexachlorobutadiene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Isopropylbenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
4-Isopropyltoluene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Methylene chloride	ND	0.00152	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
n-Butylbenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
2-Hexanone	ND	0.00305	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
n-Propylbenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
sec-Butylbenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Styrene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
4-Methyl-2-pentanone	ND	0.00305	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
tert-Butylbenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1,1,2-Tetrachloroethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1,2,2-Tetrachloroethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Tetrachloroethene (PCE)	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
trans-1,2-DCE	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
trans-1,3-Dichloropropene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2,3-Trichlorobenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2,4-Trichlorobenzene	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1,1-Trichloroethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,1,2-Trichloroethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Trichloroethene (TCE)	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Trichlorofluoromethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
1,2,3-Trichloropropane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Vinyl chloride	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Vinyl acetate	ND	0.00305	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Bromochloromethane	ND	0.000610	mg/Kg-dry	1	15137	9/5/2014 1:03:54 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	15137	9/5/2014 1:03:54 PM
Surr: 4-Bromofluorobenzene	110	65.3-135	%REC	1	15137	9/5/2014 1:03:54 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	15137	9/5/2014 1:03:54 PM
Surr: Toluene-d8	101	70-130	%REC	1	15137	9/5/2014 1:03:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-003
Client Sample ID: FFOR-CF-0065
Collection Date: 9/4/2014 9:00:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Toluene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Ethylbenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Xylenes, Total	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Methyl tert-butyl ether (MTBE)	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2,4-Trimethylbenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,3,5-Trimethylbenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2-Dichloroethane (EDC)	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2-Dibromoethane (EDB)	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Naphthalene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Acetone	0.00500	0.00362		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Bromobenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Bromodichloromethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Bromoform	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Bromomethane	0.000492	0.00181	J	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
2-Butanone	ND	0.00362		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Carbon tetrachloride	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Chlorobenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Chloroethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Chloroform	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Chloromethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
2-Chlorotoluene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Carbon disulfide	ND	0.00362		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
4-Chlorotoluene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
cis-1,2-DCE	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
cis-1,3-Dichloropropene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2-Dibromo-3-chloropropane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Dibromochloromethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Dibromomethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2-Dichlorobenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,3-Dichlorobenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,4-Dichlorobenzene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Dichlorodifluoromethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1-Dichloroethane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1-Dichloroethene	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2-Dichloropropane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,3-Dichloropropane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
2,2-Dichloropropane	ND	0.000725		mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Hexachlorobutadiene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Isopropylbenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
4-Isopropyltoluene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Methylene chloride	ND	0.00181	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
n-Butylbenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
2-Hexanone	ND	0.00362	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
n-Propylbenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
sec-Butylbenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Styrene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
4-Methyl-2-pentanone	ND	0.00362	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
tert-Butylbenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1,1,2-Tetrachloroethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1,2,2-Tetrachloroethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Tetrachloroethene (PCE)	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
trans-1,2-DCE	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
trans-1,3-Dichloropropene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2,3-Trichlorobenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2,4-Trichlorobenzene	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1,1-Trichloroethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,1,2-Trichloroethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Trichloroethene (TCE)	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Trichlorofluoromethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
1,2,3-Trichloropropane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Vinyl chloride	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Vinyl acetate	ND	0.00362	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Bromochloromethane	ND	0.000725	mg/Kg-dry	1	15137	9/5/2014 1:32:37 PM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	15137	9/5/2014 1:32:37 PM
Surr: 4-Bromofluorobenzene	102	65.3-135	%REC	1	15137	9/5/2014 1:32:37 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	15137	9/5/2014 1:32:37 PM
Surr: Toluene-d8	99.5	70-130	%REC	1	15137	9/5/2014 1:32:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-004
Client Sample ID: FFOR-CF-0066
Collection Date: 9/4/2014 9:00:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Toluene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Ethylbenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Xylenes, Total	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Methyl tert-butyl ether (MTBE)	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2,4-Trimethylbenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,3,5-Trimethylbenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2-Dichloroethane (EDC)	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2-Dibromoethane (EDB)	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Naphthalene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Acetone	0.00736	0.00386		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Bromobenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Bromodichloromethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Bromoform	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Bromomethane	0.000536	0.00193	J	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
2-Butanone	ND	0.00386		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Carbon tetrachloride	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Chlorobenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Chloroethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Chloroform	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Chloromethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
2-Chlorotoluene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Carbon disulfide	ND	0.00386		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
4-Chlorotoluene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
cis-1,2-DCE	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
cis-1,3-Dichloropropene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2-Dibromo-3-chloropropane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Dibromochloromethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Dibromomethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2-Dichlorobenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,3-Dichlorobenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,4-Dichlorobenzene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Dichlorodifluoromethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1-Dichloroethane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1-Dichloroethene	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2-Dichloropropane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,3-Dichloropropane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
2,2-Dichloropropane	ND	0.000772		mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Hexachlorobutadiene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Isopropylbenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
4-Isopropyltoluene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Methylene chloride	ND	0.00193	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
n-Butylbenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
2-Hexanone	ND	0.00386	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
n-Propylbenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
sec-Butylbenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Styrene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
4-Methyl-2-pentanone	ND	0.00386	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
tert-Butylbenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1,1,2-Tetrachloroethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1,2,2-Tetrachloroethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Tetrachloroethene (PCE)	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
trans-1,2-DCE	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
trans-1,3-Dichloropropene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2,3-Trichlorobenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2,4-Trichlorobenzene	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1,1-Trichloroethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,1,2-Trichloroethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Trichloroethene (TCE)	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Trichlorofluoromethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
1,2,3-Trichloropropane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Vinyl chloride	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Vinyl acetate	ND	0.00386	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Bromochloromethane	ND	0.000772	mg/Kg-dry	1	15137	9/5/2014 2:01:20 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	15137	9/5/2014 2:01:20 PM
Surr: 4-Bromofluorobenzene	105	65.3-135	%REC	1	15137	9/5/2014 2:01:20 PM
Surr: Dibromofluoromethane	105	70-130	%REC	1	15137	9/5/2014 2:01:20 PM
Surr: Toluene-d8	102	70-130	%REC	1	15137	9/5/2014 2:01:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-005
Client Sample ID: FFOR-CF-0067
Collection Date: 9/4/2014 9:30:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Toluene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Ethylbenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Xylenes, Total	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2,4-Trimethylbenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,3,5-Trimethylbenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2-Dichloroethane (EDC)	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2-Dibromoethane (EDB)	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Naphthalene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Acetone	0.00407	0.00382		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Bromobenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Bromodichloromethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Bromoform	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Bromomethane	0.000505	0.00191	J	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
2-Butanone	ND	0.00382		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Carbon tetrachloride	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Chlorobenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Chloroethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Chloroform	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Chloromethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
2-Chlorotoluene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Carbon disulfide	ND	0.00382		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
4-Chlorotoluene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
cis-1,2-DCE	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
cis-1,3-Dichloropropene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2-Dibromo-3-chloropropane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Dibromochloromethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Dibromomethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2-Dichlorobenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,3-Dichlorobenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,4-Dichlorobenzene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Dichlorodifluoromethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1-Dichloroethane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1-Dichloroethene	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2-Dichloropropane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,3-Dichloropropane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
2,2-Dichloropropane	ND	0.000763		mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Hexachlorobutadiene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Isopropylbenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
4-Isopropyltoluene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Methylene chloride	ND	0.00191	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
n-Butylbenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
2-Hexanone	ND	0.00382	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
n-Propylbenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
sec-Butylbenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Styrene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
4-Methyl-2-pentanone	ND	0.00382	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
tert-Butylbenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1,1,2-Tetrachloroethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1,2,2-Tetrachloroethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Tetrachloroethene (PCE)	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
trans-1,2-DCE	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
trans-1,3-Dichloropropene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2,3-Trichlorobenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2,4-Trichlorobenzene	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1,1-Trichloroethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,1,2-Trichloroethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Trichloroethene (TCE)	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Trichlorofluoromethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
1,2,3-Trichloropropane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Vinyl chloride	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Vinyl acetate	ND	0.00382	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Bromochloromethane	ND	0.000763	mg/Kg-dry	1	15137	9/5/2014 2:30:03 PM
Surr: 1,2-Dichloroethane-d4	113	70-130	%REC	1	15137	9/5/2014 2:30:03 PM
Surr: 4-Bromofluorobenzene	104	65.3-135	%REC	1	15137	9/5/2014 2:30:03 PM
Surr: Dibromofluoromethane	98.3	70-130	%REC	1	15137	9/5/2014 2:30:03 PM
Surr: Toluene-d8	98.3	70-130	%REC	1	15137	9/5/2014 2:30:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Toluene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Ethylbenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Xylenes, Total	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Methyl tert-butyl ether (MTBE)	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2,4-Trimethylbenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,3,5-Trimethylbenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2-Dichloroethane (EDC)	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2-Dibromoethane (EDB)	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Naphthalene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Acetone	0.00382	0.00369		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Bromobenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Bromodichloromethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Bromoform	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Bromomethane	0.000495	0.00184	J	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
2-Butanone	ND	0.00369		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Carbon tetrachloride	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Chlorobenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Chloroethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Chloroform	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Chloromethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
2-Chlorotoluene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Carbon disulfide	ND	0.00369		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
4-Chlorotoluene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
cis-1,2-DCE	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
cis-1,3-Dichloropropene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2-Dibromo-3-chloropropane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Dibromochloromethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Dibromomethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2-Dichlorobenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,3-Dichlorobenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,4-Dichlorobenzene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Dichlorodifluoromethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1-Dichloroethane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1-Dichloroethene	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2-Dichloropropane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,3-Dichloropropane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
2,2-Dichloropropane	ND	0.000738		mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Hexachlorobutadiene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Isopropylbenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
4-Isopropyltoluene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Methylene chloride	ND	0.00184	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
n-Butylbenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
2-Hexanone	ND	0.00369	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
n-Propylbenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
sec-Butylbenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Styrene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
4-Methyl-2-pentanone	ND	0.00369	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
tert-Butylbenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1,1,2-Tetrachloroethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1,2,2-Tetrachloroethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Tetrachloroethene (PCE)	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
trans-1,2-DCE	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
trans-1,3-Dichloropropene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2,3-Trichlorobenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2,4-Trichlorobenzene	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1,1-Trichloroethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,1,2-Trichloroethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Trichloroethene (TCE)	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Trichlorofluoromethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
1,2,3-Trichloropropane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Vinyl chloride	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Vinyl acetate	ND	0.00369	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Bromochloromethane	ND	0.000738	mg/Kg-dry	1	15137	9/5/2014 2:58:48 PM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	15137	9/5/2014 2:58:48 PM
Surr: 4-Bromofluorobenzene	99.2	65.3-135	%REC	1	15137	9/5/2014 2:58:48 PM
Surr: Dibromofluoromethane	106	70-130	%REC	1	15137	9/5/2014 2:58:48 PM
Surr: Toluene-d8	99.0	70-130	%REC	1	15137	9/5/2014 2:58:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-008 **Collection Date:** 9/4/2014 2:45:00 PM
Client Sample ID: FFOR-CF-0070 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Toluene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Ethylbenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Xylenes, Total	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Methyl tert-butyl ether (MTBE)	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2,4-Trimethylbenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,3,5-Trimethylbenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2-Dichloroethane (EDC)	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2-Dibromoethane (EDB)	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Naphthalene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Acetone	0.00458	0.00360		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Bromobenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Bromodichloromethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Bromoform	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Bromomethane	0.000467	0.00180	J	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
2-Butanone	ND	0.00360		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Carbon tetrachloride	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Chlorobenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Chloroethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Chloroform	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Chloromethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
2-Chlorotoluene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Carbon disulfide	ND	0.00360		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
4-Chlorotoluene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
cis-1,2-DCE	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
cis-1,3-Dichloropropene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2-Dibromo-3-chloropropane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Dibromochloromethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Dibromomethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2-Dichlorobenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,3-Dichlorobenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,4-Dichlorobenzene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Dichlorodifluoromethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1-Dichloroethane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1-Dichloroethene	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2-Dichloropropane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,3-Dichloropropane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
2,2-Dichloropropane	ND	0.000720		mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Hexachlorobutadiene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Isopropylbenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
4-Isopropyltoluene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Methylene chloride	ND	0.00180	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
n-Butylbenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
2-Hexanone	ND	0.00360	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
n-Propylbenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
sec-Butylbenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Styrene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
4-Methyl-2-pentanone	ND	0.00360	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
tert-Butylbenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1,1,2-Tetrachloroethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1,2,2-Tetrachloroethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Tetrachloroethene (PCE)	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
trans-1,2-DCE	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
trans-1,3-Dichloropropene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2,3-Trichlorobenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2,4-Trichlorobenzene	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1,1-Trichloroethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,1,2-Trichloroethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Trichloroethene (TCE)	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Trichlorofluoromethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
1,2,3-Trichloropropane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Vinyl chloride	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Vinyl acetate	ND	0.00360	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Bromochloromethane	ND	0.000720	mg/Kg-dry	1	15137	9/5/2014 3:27:34 PM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	15137	9/5/2014 3:27:34 PM
Surr: 4-Bromofluorobenzene	110	65.3-135	%REC	1	15137	9/5/2014 3:27:34 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	15137	9/5/2014 3:27:34 PM
Surr: Toluene-d8	100	70-130	%REC	1	15137	9/5/2014 3:27:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Fri Sep 05 13:34:18 2014

2.5ug - 25

mpleList: C:\VarianWS\090514v.smp

eated: Fri Sep 05 08:38:46 2014
odified: Fri Sep 05 13:33:06 2014

Ctg - PAL 06498

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0526	
2	b1	none ← Tune 9:30
3	2.25ug gro ccv	below @ 9:58
	Notes v-18-2074	
4	2.5ug gro lcs	below
	Notes v-18-2067	
5	75ng ccv	below @ 10:54
	Notes v-54-0475	
6	100ng lcs	below
	Notes v-11-8070	
7	vcb1	none
8	1409219-010a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
9	1409219-007a	below
	Notes x1-100uL MeOH GRO 8260	
10	1409219-009a	below
	Notes x1-100uL MeOH GRO 8260 r10 for IS3	
11	b2	none
12	1409219-001a	below
	Notes x1-100uL MeOH GRO r1 c-1	
13	1409219-002a	below
	Notes x1-100uL MeOH GRO r1 c-1	
14	1409219-003a	below
	Notes x1-100uL MeOH GRO	
15	1409219-004a	below
	Notes x1-100uL MeOH GRO	
16	1409219-005a	below
	Notes x1-100uL MeOH GRO	
17	1409219-006a	below
	Notes x1-100uL MeOH GRO	
18	1409219-008a	below
	Notes x1-100uL MeOH GRO	
19	1409046-001a	below
	Notes x1-100uL MeOH GRO	
20	1409219-008a ms	below
	Notes V-18-2067 MeOH GRO client requested ms/d for -008	
21 @ 6:24	1409219-008a msd	below
	Notes V-18-2067 MeOH GRO same vial as Matrix used for spiking	
22	1408f17-003a	below
	Notes r50-2uL PB15046 V_O	
23	b3	none ← Tune 7:20
24	1409062-001a	below
	Notes r5-20uL MeOH QCw/PB15063	
25	1409069-001a	below
	Notes x10-10uL MeOH QCw/PB15122 r1	
26	1409069-002a	below
	Notes x10-10uL MeOH QCw/PB15122	
27	1409069-003a	below
	Notes x1-100uL MeOH Blk QCw/PB15122	
28	lcs-15122	below
	Notes V-11-8070 MeOH, SoilTCLP	
29	mb-15122	below
	Notes 4681 MeOH, SoilTCLP	
30 @ 10:36	1409170-001a	below
	Notes x10-10uL PB15122 SoilTCLP r5	
31	tt	none
32	b4	none
33	50ng ccv	below @ 11:59
	Notes V-54-0475	
34	vcb2	none
35	1409174-001a	below ← Tune 12:27
	Notes x10-10uL PB15122 SoilTCLP	
36	1409170-001ams	below
	Notes x10 V-11-8070 PB15122 SoilTCLP r5	
37	1409170-001amsd	below

Loaded By: [illegible] 9/5/2014 / 9514 [illegible]
1st Review By: [illegible] 9/8/2014 / [illegible] 9-8-14
QA'd By: [illegible] 9/8/14

```
38          1409176-001a      below
              Notes  x10-10uL PB15122 SoilTCLP
39          1408e83-001a      below
              Notes  x2 2.5mL (dds)
40        1408e83-001ams      below
              Notes  x2 v-11-8070 (dds)
41       1408e83-001amsd      below
              Notes  x2 v-11-8070 (dds)
42          1408e83-002a      below
              Notes  x2 2.5mL (dds)
43          1408e83-003a      below <-- HAND CALC: Waters
              Notes  x2 2.5mL (dds)
44          1408e83-004a      below
              Notes  x1 5mL
45          1408e83-005a      below
              Notes  x2 2.5mL (dds)
46          1408e83-006a      below
              Notes  x1 5mL
47          1408e83-007a      below
              Notes  x2 2.5mL (dds)
48          1408e83-008a      below
              Notes  x2 2.5mL (dds)
49          1408e83-009a      below
              Notes  x2 2.5mL (dds)
50          1408e83-010a      below
              Notes  x1 5mL TB
51          1408f03-001a      below
              Notes  x1 5mL
52          1408f03-002a      below
              Notes  x10 0.5mL
53          1408f03-003a      below
              Notes  x1000 0.005mL
54          1408f03-004a      below
              Notes  x1 5mL
55          1408f03-005a      below
              Notes  x50 0.1mL
56          1408f03-005a      below
              Notes  r5 1mL
57                    b5      none
58 @ 11:38  1408f03-006a      below
              Notes  x1 5mL TB
59                    tt      none
60
```

r20 : B

Loaded By: DF 9/5/2014 | 9-9-14
1st Review By: DF 9/8/2014 | 9-9-14
QA'd By: ✓ 09/8/14

```
Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\090514v.rcl.
```

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090514v\75ng ccv 9-5-2014.SMS Lab Sample ID: 75ng ccv

Instrument ID: VAL Date Analyzed: 9/5/2014 Time Analyzed: 10:54

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	24044	8.00	34906	14.31	19779	17.91						
UPPER LIMIT	48088	8.50	69812	14.81	39558	18.41						
LOWER LIMIT	12022	7.50	17453	13.81	9890	17.41						
EPA SAMPLE NO												
rtm 9-5-20	26403	7.99	37084	14.30	21371	17.91						
b1 9-5-201	25047	7.99	36181	14.30	20478	17.91						
2.25ug gro	24564	7.99	35114	14.30	19682	17.91						
2.5ug gro	23882	7.99	34879	14.30	19205	17.91						
100ng lcs	24179	8.00	35786	14.30	19345	17.91						
vcb1 9-5-2	22933	7.99	34231	14.30	18861	17.91						
1409219-01@a	25227	7.99	34365	14.30	18585	17.91						
1409219-007a	26773	7.99	34423	14.30	20965	17.91						
1409219-009a	27518	7.99	39335	14.31	49539*	17.91						
b2 9-5-201	29581	8.00	37364	14.31	20270	17.91						
1409219-00	28881	8.00	37687	14.30	20581	17.91						
1409219-00	27786	7.99	37569	14.30	22515	17.91						
1409219-00	25907	8.00	34576	14.31	21969	17.91						
1409219-00	25933	8.00	34658	14.31	23289	17.91						
1409219-00	26793	8.00	35614	14.31	22160	17.91						
1409219-00	27485	8.00	37911	14.31	23399	17.91						

-NR IS3 r10 IS3

JH 9-8-14

NB 9/8/14

9/8/2014 8:38

Analyst: djf

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1409219-00	26074	7.99	34441	14.31	21717	17.91						
1409046-00	26002	8.00	33858	14.31	22861	17.91						
1409219-00	27831	7.99	36974	14.31	24793	17.91						
1409219-00	27476	8.00	38637	14.31	24463	17.92						
1408f17-00	28746	8.00	38464	14.31	20816	17.91						
b3 9-5-201	25204	8.00	35815	14.31	19003	17.91						
1409062-00	26922	8.00	37547	14.31	21209	17.91						
1409069-00	25989	7.99	36982	14.30	19967	17.91						
1409069-00	24695	7.99	34585	14.31	19552	17.91						
1409069-00	27716	7.99	35458	14.31	22619	17.91						
lcs-15122	24987	7.99	33589	14.31	22002	17.91						
mb-15122 9	27813	7.98	35441	14.30	23500	17.90						
1409170-00	28037	7.99	36594	14.30	20483	17.90						
tt 9-5-201	23648	7.99	33868	14.30	19207	17.90						
b4 9-5-201	22538	7.99	34089	14.29	19104	17.90						
50ng ccv 9	23286	7.99	34722	14.30	19407	17.90						
vcb2 9-6-2	23231	7.99	34505	14.30	18146	17.90						
1409174-00	23440	7.99	33985	14.30	18712	17.90						
1409170-00	24031	7.99	35466	14.30	19526	17.91						
1409170-00	23746	7.98	35288	14.30	19258	17.90						
1409176-00	24026	7.98	34404	14.30	19325	17.90						
1408e83-00	22494	7.99	34580	14.30	18824	17.90						
1408e83-00	21916	7.99	33442	14.30	19023	17.90						
1408e83-00	21732	7.98	32924	14.30	17890	17.90						
1408e83-00	22222	7.98	32440	14.30	18262	17.90						
1408e83-00	21722	7.99	33442	14.30	18295	17.90						
1408e83-00	22138	7.99	32992	14.30	17984	17.90						
1408e83-00	21041	7.99	31108	14.30	17625	17.90						
1408e83-00	21684	7.99	33515	14.30	18348	17.90						
1408e83-00	22397	7.98	32439	14.30	18287	17.90						
1408e83-00	23219	7.98	34346	14.29	18992	17.90						
1408e83-00	21863	7.98	33262	14.29	18413	17.90						
1408e83-01	21761	7.98	32479	14.29	18381	17.90						
1408f03-00	22556	7.98	32827	14.30	18577	17.90						

9/8/2014 8:38

Analyst: djf

DF 9/8/2014

DB 9/8/14

Internal Standard And RT Summary

	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3	
1408f03-00	21389	7.98	32035	14.30	17898	17.90
1408f03-00	21660	7.98	32998	14.30	18692	17.90
1408f03-00	20787	7.98	31228	14.29	17917	17.90
1408f03-00	20657	7.98	30721	14.29	17706	17.90
1408f03-00	22006	7.98	33584	14.29	17767	17.89
b5 9-6-201	22279	7.98	32170	14.29	18603	17.90
1408f03-00	21143	7.99	31585	14.30	17902	17.90
tt 9-6-201	21123	7.98	32062	14.29	17742	17.90

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

9/8/2014 8:38
Analyst: djf

AREA#	RT #	AREA#	RT #	AREA#	RT #

DF 9/8/2014

WB 9/8/14

Internal Standard And RT Summary

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/5/2014 Time: 9:58

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: h:\val\data\2014v\0914v\090514v\gro\2.25ug gro ccv 9-5-2014.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2784.274	0.100	2.25	2.30	-2.1	20.0	PASS	PASS
BFB	1.004	0.100	50.00	48.23	3.5	30.0	PASS	PASS

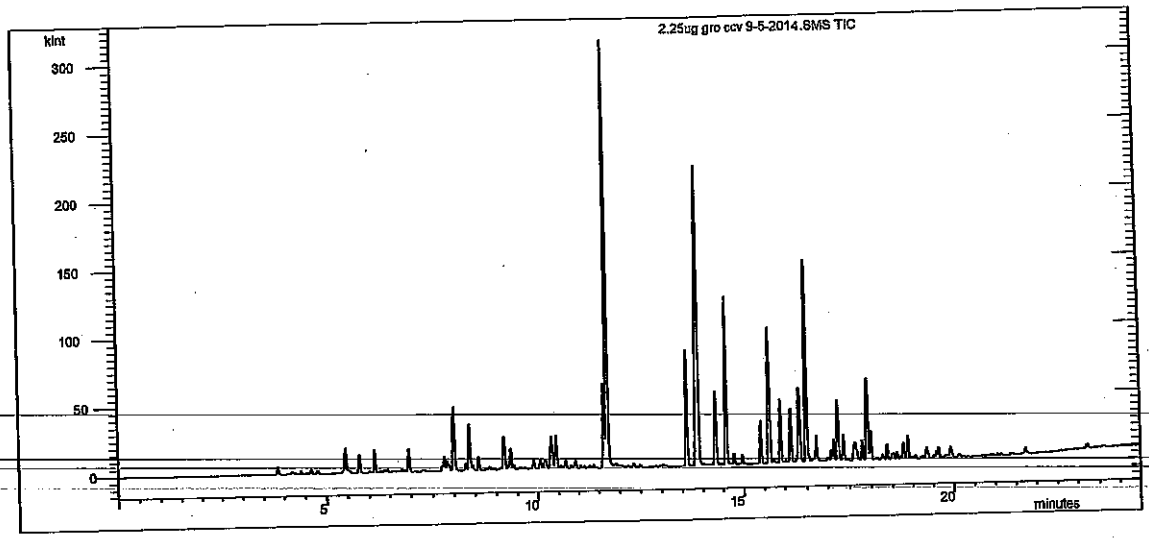
9-8-14

DB 9/8/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/5/2014 9:58:25 AM
Calculation Date:	9/5/2014 10:27:45 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.302	1194	Identified	34683	50.000
GRO	11.000	903	Identified	4.346E6	2.297
BFB	16.333	1374	Identified	34821	48.228

```
**************************************************************
Revision Log
**************************************************************

9/5/2014 10:22 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/5/2014 10:27 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/5/2014 Time: 10:54

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 9-5-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.441	0.100	75.00	79.32	-5.8	30.0	PASS	PASS
Chloromethane	0.319	0.100	75.00	52.16	30.5	30.0	FAIL	PASS
Vinyl chloride	1.210	0.100	75.00	67.64	9.8	20.0	PASS	PASS
Chloroethane	0.204	0.100	75.00	69.05	7.9	30.0	PASS	PASS
Bromomethane	1.259	0.100	75.00	112.79	-50.4	30.0	FAIL	PASS
Trichlorofluoromethane	0.895	0.100	75.00	80.82	-7.8	30.0	PASS	PASS
1,1-Dichloroethene	1.185	0.100	75.00	74.42	0.8	20.0	PASS	PASS
Acetone	0.344	0.100	150.00	104.88	30.1	40.0	PASS	PASS
Carbon disulfide	1.051	0.100	150.00	167.68	-11.8	40.0	PASS	PASS
Iodomethane	0.099	0.100	150.00	46.95	68.7	40.0	FAIL	FAIL
Methyl tert-butyl ether (MTBE)	1.270	0.100	150.00	151.74	-1.2	30.0	PASS	PASS
Isopropyl ether	1.500	0.100	150.00	167.98	-12.0	40.0	PASS	PASS
tert-Butyl alcohol	0.129	0.100	1500.00	737.26	50.8	40.0	FAIL	PASS
trans-1,2-DCE	1.465	0.100	75.00	79.40	-5.9	30.0	PASS	PASS
tert-Butyl ethyl ether	2.869	0.100	150.00	163.62	-9.1	40.0	PASS	PASS
1,1-Dichloroethane	1.339	0.100	75.00	70.15	6.5	30.0	PASS	PASS
Methylene Chloride	1.561	0.100	75.00	80.06	-6.8	30.0	PASS	PASS
Vinyl Acetate	1.402	0.100	150.00	119.15	20.6	40.0	PASS	PASS
2,2-Dichloropropane	0.822	0.100	75.00	76.74	-2.3	30.0	PASS	PASS
2-Butanone	0.445	0.100	150.00	127.97	14.7	40.0	PASS	PASS
1,1,1-Trichloroethane	1.529	0.100	75.00	77.41	-3.2	30.0	PASS	PASS
tert-Amyl methyl ether	1.380	0.100	150.00	150.81	-0.5	40.0	PASS	PASS
1,1-Dichloropropene	0.669	0.100	75.00	75.43	-0.6	30.0	PASS	PASS
Carbon Tetrachloride	3.156	0.100	75.00	76.86	-2.5	30.0	PASS	PASS
cis-1,2-DCE	2.014	0.100	75.00	78.50	-4.7	30.0	PASS	PASS
Benzene	1.915	0.100	75.00	79.53	-6.0	30.0	PASS	PASS
Chloroform	1.445	0.100	75.00	87.79	-17.1	20.0	PASS	PASS
Bromochloromethane	0.535	0.100	75.00	91.97	-22.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.453	0.100	75.00	90.44	-20.6	30.0	PASS	PASS
Dibromofluoromethane	1.645	0.100	50.00	47.73	4.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.389	0.100	50.00	48.06	3.9	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.718	0.100	75.00	78.53	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	1.962	0.100	75.00	80.68	-7.6	20.0	PASS	PASS
4-Methyl-2-pentanone	2.020	0.100	150.00	161.92	-7.9	40.0	PASS	PASS
Toluene-d8	1.914	0.100	50.00	48.78	2.4	30.0	PASS	PASS

NMR

RR Hits

NR

NR

DF 9/8/2014

NR 9/9/14

Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.876	0.100	75.00	81.78	-9.0	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.960	0.100	150.00	142.95	4.7	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.391	0.100	75.00	82.73	-10.3	30.0	PASS	PASS
cis-1,3-dichloropropene	2.099	0.100	75.00	75.94	-1.3	30.0	PASS	PASS
2-Hexanone	0.798	0.100	150.00	131.72	12.2	40.0	PASS	PASS
Bromodichloromethane	2.696	0.100	75.00	80.46	-7.3	30.0	PASS	PASS
Dibromomethane	1.195	0.100	75.00	77.21	-2.9	30.0	PASS	PASS
1,3-Dichloropropane	1.478	0.100	75.00	75.85	-1.1	30.0	PASS	PASS
trans-1,3-dichloropropene	0.768	0.100	75.00	73.73	1.7	30.0	PASS	PASS
Ethylbenzene	3.147	0.100	75.00	80.28	-7.0	20.0	PASS	PASS
mp-Xylenes	2.877	0.100	150.00	160.22	-6.8	30.0	PASS	PASS
1,1,2-Trichloroethane	1.757	0.100	75.00	75.53	-0.7	30.0	PASS	PASS
Chlorobenzene	1.290	0.300	75.00	74.65	0.5	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.461	0.100	75.00	77.63	-3.5	30.0	PASS	PASS
o-Xylene	2.782	0.100	75.00	78.37	-4.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.272	0.100	75.00	74.24	1.0	30.0	PASS	PASS
Dibromochloromethane	1.297	0.100	75.00	74.92	0.1	30.0	PASS	PASS
Isopropylbenzene	2.605	0.100	75.00	74.96	0.1	30.0	PASS	PASS
Styrene	1.240	0.100	75.00	73.47	2.0	30.0	PASS	PASS
n-Propylbenzene	6.169	0.100	75.00	75.48	-0.6	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.569	0.100	75.00	77.35	-3.1	30.0	PASS	PASS
tert-Butylbenzene	4.760	0.100	75.00	73.00	2.7	30.0	PASS	PASS
2-Chlorotoluene	1.514	0.100	75.00	72.67	3.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.796	0.100	50.00	44.06	11.9	30.0	PASS	PASS
sec-Butylbenzene	2.824	0.100	75.00	62.18	17.1	30.0	PASS	PASS
4-Chlorotoluene	1.468	0.100	75.00	67.81	9.6	30.0	PASS	PASS
Bromobenzene	1.429	0.100	75.00	79.21	-5.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.478	0.100	75.00	71.72	4.4	30.0	PASS	PASS
4-Isopropyltoluene	4.649	0.100	75.00	71.39	4.8	30.0	PASS	PASS
Bromoform	1.582	0.100	75.00	69.12	7.8	30.0	PASS	PASS
1,2,3-Trichloropropane	1.216	0.100	75.00	67.74	9.7	30.0	PASS	PASS
n-Butylbenzene	4.505	0.100	75.00	73.70	1.7	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.916	0.300	75.00	78.58	-4.8	30.0	PASS	PASS
1,3-Dichlorobenzene	2.049	0.100	75.00	73.41	2.1	30.0	PASS	PASS
1,4-Dichlorobenzene	2.022	0.100	75.00	74.88	0.2	30.0	PASS	PASS
1,2-Dichlorobenzene	2.027	0.100	75.00	74.93	0.1	30.0	PASS	PASS
Hexachlorobutadiene	4.226	0.100	75.00	65.25	13.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.804	0.100	75.00	77.53	-3.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.561	0.100	75.00	74.18	1.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.567	0.100	75.00	73.88	1.5	30.0	PASS	PASS
Naphthalene	2.883	0.100	75.00	70.28	6.3	30.0	PASS	PASS
2-Methylnaphthalene	2.383	0.100	75.00	79.23	-5.6	40.0	PASS	PASS
1-Methylnaphthalene	2.238	0.100	75.00	76.88	-2.5	40.0	PASS	PASS

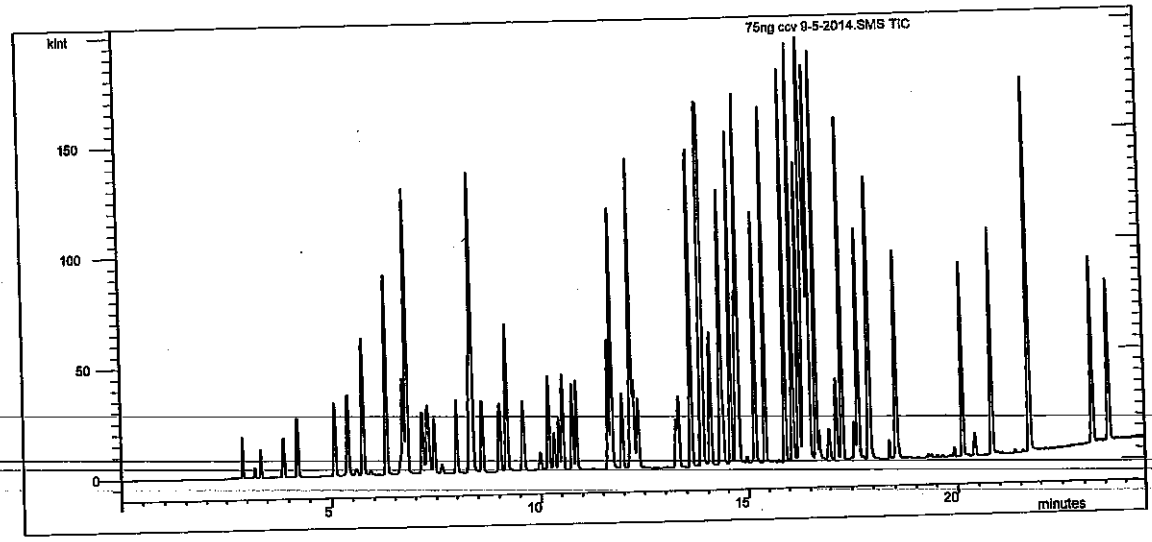
DF 9/8/2014

✓DB 9/8/14

Analyst: djf

8260B/624 Report

Sample Name:	75ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-54-0475	**Acquisition Date:**	9/5/2014 10:54:27 AM
Calculation Date:	9/5/2014 11:18:56 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.995	636	Identified	24044	50.000
Benzene-d5-, chloro-	14.306	1195	Identified	34906	50.000
1,4-Dichlorobenzene-d4	17.911	1516	Identified	19779	50.000
Dichlorodifluoromethane	2.903	184	Identified	51962	79.317
Chloromethane	3.202	211	Identified	11493	52.161
Vinyl chloride	3.351	224	Identified	43636	67.636
Chloroethane	3.883	271	Identified	7350	69.047
Bromomethane	3.899	273	Identified	45409	112.786
Trichlorofluoromethane	4.223	301	Identified	32285	80.816
1,1-Dichloroethene	5.080	377	Identified	42746	74.420
Acetone	5.365	403	Identified	24837	104.885
Carbon disulfide	5.397	406	Identified	75817	167.676
Iodomethane	5.596	423	Identified	7172	46.952
Methyl tert-butyl ether (MTBE)	5.750	437	Identified	91602	151.742
Isopropyl ether	6.309	486	Identified	108205	167.980
tert-Butyl alcohol	6.653	517	Identified	93030	737.263
trans-1,2-DCE	6.710	521	Identified	52836	79.404
tert-Butyl ethyl ether	6.798	529	Identified	206922	163.618
1,1-Dichloroethane	7.174	562	Identified	48298	70.150
Methylene Chloride	7.291	573	Identified	56309	80.064
Vinyl Acetate	7.347	578	Identified	101112	119.151
2,2-Dichloropropane	7.451	588	Identified	29629	76.740
2-Butanone	7.634	604	Identified	32075	127.974
1,1,1-Trichloroethane	8.308	664	Identified	55138	77.408

DF
9/8/2014

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.366	669	Identified	99513	150.806
1,1-Dichloropropene	8.381	670	Identified	24125	75.431
Carbon Tetrachloride	8.610	690	Identified	113832	76.856
cis-1,2-DCE	9.026	727	Identified	72648	78.497
Benzene	9.191	742	Identified	69055	79.529
Chloroform	9.588	776	Identified	52107	87.794
Bromochloromethane	10.002	813	Identified	19279	91.968
Trichloroethene (TCE)	10.191	830	Identified	52410	90.439
Dibromofluoromethane	10.328	843	Identified	39553	47.733
1,2-Dichloroethane-d4	10.442	853	Identified	105530	48.065
1,2-Dichloroethane (EDC)	10.535	861	Identified	61946	78.528
1,2-Dichloropropane	10.766	881	Identified	70766	80.684
4-Methyl-2-pentanone	10.864	890	Identified	145671	161.921
Toluene-d8	11.632	958	Identified	66826	48.782
Toluene	11.713	964	Identified	150610	81.778
2-Chloroethyl vinyl ether	11.967	987	Identified	100504	142.955
Tetrachloroethene (PCE)	12.176	1006	Identified	72820	82.731
cis-1,3-dichloropropene	12.176	1006	Identified	109907	75.939
2-Hexanone	12.182	1006	Identified	83516	131.722
Bromodichloromethane	12.245	1012	Identified	141153	80.458
Dibromomethane	12.349	1021	Identified	62573	77.206
1,3-Dichloropropane	13.252	1101	Identified	77375	75.851
trans-1,3-dichloropropene	13.311	1106	Identified	40198	73.734
Ethylbenzene	13.610	1133	Identified	164766	80.276
mp-Xylenes	13.860	1155	Identified	301308	160.221
1,1,2-Trichloroethane	14.065	1173	Identified	91970	75.527
Chlorobenzene	14.329	1197	Identified	67554	74.652
1,2-Dibromoethane (EDB)	14.383	1201	Identified	76497	77.633
o-Xylene	14.579	1219	Identified	145674	78.374
1,1,1,2-Tetrachloroethane	14.706	1230	Identified	118970	74.236
Dibromochloromethane	14.736	1233	Identified	67887	74.923
Isopropylbenzene	14.770	1236	Identified	136402	74.961
Styrene	15.163	1271	Identified	64932	73.472
n-Propylbenzene	15.404	1293	Identified	183032	75.477
1,3,5-Trimethylbenzene	15.897	1336	Identified	135561	77.346
tert-Butylbenzene	16.091	1354	Identified	141215	73.002
2-Chlorotoluene	16.239	1367	Identified	44913	72.665
4-Bromofluorobenzene	16.337	1376	Identified	35517	44.057
sec-Butylbenzene	16.367	1378	Identified	83775	62.180
4-Chlorotoluene	16.403	1382	Identified	43567	67.807
Bromobenzene	16.443	1385	Identified	42407	79.206
1,2,4-Trimethylbenzene	16.495	1390	Identified	132864	71.720
4-Isopropyltoluene	16.657	1404	Identified	137918	71.386
Bromoform	16.985	1434	Identified	46938	69.123
1,2,3-Trichloropropane	17.157	1449	Identified	36072	67.739
n-Butylbenzene	17.285	1461	Identified	133641	73.701
1,1,2,2-Tetrachloroethane	17.578	1487	Identified	56848	78.577
1,3-Dichlorobenzene	17.663	1494	Identified	60795	73.407
1,4-Dichlorobenzene	17.937	1519	Identified	59998	74.878
1,2-Dichlorobenzene	18.541	1573	Identified	60146	74.932

DF 9/8/2014

Inj. Notes: v-54-0475

75ng ccv 9-5-2014.SMS
9/5/2014 11:19

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.127	1713	Identified	125374	65.251
1,2-Dibromo-3-chloropropane	20.416	1739	Identified	23864	77.531
1,2,4-Trichlorobenzene	20.825	1775	Identified	46300	74.183
1,2,3-Trichlorobenzene	21.728	1856	Identified	46487	73.880
Naphthalene	21.736	1856	Identified	85523	70.283
2-Methylnaphthalene	23.220	1990	Identified	70710	79.231
1-Methylnaphthalene	23.609	2025	Identified	66403	76.881

****
Revision Log
****

DF 9/8/2014

9/5/2014 11:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

arian Star Workstation - Generic SampleList Mon Sep 08 15:15:04 2014

ampleList: C:\VarianWS\090814v.smp

reated: Mon Sep 08 08:18:09 2014
odified: Mon Sep 08 15:09:25 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0530	
2	b1	none ← Tune 9:10
3	100ng ccv	below @ 9:39
	Notes V-54-0481	
4	100ng lcs	below
	Notes V-11-8074	
5	2.0ug gro ccv	below
	Notes v-18-2074	
6	2.5ug gro lcs	below
	Notes v-18-2067	
7	vcb1	none
8	1409219-001a	below
	Notes r1-100uL MeOH GRO	
9	1409219-002a	below
	Notes r1-100uL MeOH GRO	
10	1409275-002a	below
	Notes x1-100uL MeOH GRO	
11	1409275-002a ms g	below
	Notes V-18-2067 MeOH GRO	
12	1409275-002a msd g	below
	Notes V-18-2067 MeOH GRO	
13	b2	none
14	1409275-004a	below
	Notes x1-100uL MeOH GRO	
15	1409275-005a	below
	Notes x1-100uL MeOH GRO	
16	1409275-006a	below
	Notes x1-100uL MeOH GRO	
17	1409275-009a	below
	Notes x1-100uL MeOH GRO	
18	1409275-010a	below
	Notes x1-100uL MeOH GRO	
19	1409275-011a	below
	Notes x1-100uL MeOH GRO	
20	1409275-012a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
21	1409219-009a	below
	Notes r10-10uL MeOH GRO, 8260 IS3	
22	b3	none
23	1409275-003a	below
	Notes x10-10uL MeOH GRO, 8260 ~~r100, GRO, IS3 #1 8260~~	
24	b4	none ← Tune 7:29
25	1409275-001a	below
	Notes x10-10uL MeOH GRO, 8260 r100 - GRO, 8200 IS3	
26	1409170-001ams	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
27	1409170-001amsd	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
28 @ 9:21	1409170-001a	below
	Notes r5-20uL SoilTCLP PB15122	
29	b5	none
30	75ng ccv	~~none~~ V-54-0481 @ 10:17
31	vcb2	none
32	1409069-001a	below
	Notes r1-100uL MeOH QCw/PB15122	
33	lcs-15146	below
	Notes V-11-8070 SoilTCLP, 8260	
34	mb-15146	below
	Notes 4681 SoilTCLP, 8260	
35	1409226-001a	below
	Notes x1-100uL PB15146	
36	1409226-001ams	below
	Notes V-11-8070 PB15146	
37	1409226-001amsd	below
	Notes V-11-8070 PB15146	

DF 9/8/2014

Loaded By: 9-8-14

1st Review By: 9-9-14 DF 9/8/2014

QA'd By: 9/9/14

```
39          1408e83-008a      below
               Notes  r20 0.25mL (B)
40          1408f60-001a      below
               Notes  x2 2.5mL (dds)
41       1408f60-001a ms      below
               Notes  x2 V-11-8074 (dds)
42     1408f60-001a msd       below
               Notes  x2 V-11-8074 (dds)
43          1408f60-002a      below
               Notes  x2 2.5mL (dds)
44          1408f60-003a      below
               Notes  x2 2.5mL (dds)
45          1408f72-001a      below
               Notes  x1 5mL SL_W
46          1409038-002a      below
               Notes  x1 5mL
47          1409038-003a      below
               Notes  x1 5mL
48          1409038-004a      below
               Notes  x1 5mL
49          1409038-005a      below
               Notes  x1 5mL TB
50 @7:08    1409038-001a      below
               Notes  x1 5mL
51 @7:56                tt       none
52
```

FG4

Archon skipped sample, but continued run
SAMPLE LIST OFF BY 1

F10: TCE

```
irectory for Data Files: C:\VarianWS\data

      Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\090814v.rcl.
```

Loaded By: PT 9-9-14 DF 9/8/2014
1st Review By: PT 9-9-14 DF 9/9/2014
QA'd By: ✓DF 9/9/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090814v\100ng ccv 9-8-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 9/8/2014 Time Analyzed: 09:39

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	23423	7.99	34834	14.30	19427	17.91						
UPPER LIMIT	46846	8.49	69668	14.80	38854	18.41						
LOWER LIMIT	11712	7.49	17417	13.80	9714	17.41						
EPA SAMPLE NO												
rtm 9-8-20	29523	7.99	38252	14.31	21461	17.91						
b1 9-8-201	22616	7.99	32815	14.30	18889	17.91						
100ng lcs	21912	7.99	32520	14.30	17775	17.90						
2.0ug gro	23555	7.99	32824	14.30	18574	17.91						
2.5ug gro	22586	7.99	32356	14.30	17925	17.91						
vcb1 9-8-2	22805	7.99	33058	14.30	18534	17.90						
1409219-00	24872	7.99	33042	14.30	19084	17.91						
1409219-00	25001	7.99	30498	14.31	20830	17.91						
1409275-00	25955	7.99	32939	14.30	21890	17.91						
1409275-00	29637	7.99	35353	14.30	22805	17.91						
1409275-00	29088	7.99	35344	14.30	23747	17.91						
b2 9-8-201	25717	8.00	34940	14.30	18993	17.91						
1409275-00	24886	8.00	30876	14.31	20226	17.91						
1409275-00	26260	8.00	31833	14.31	21163	17.91						
1409275-00	26770	8.00	32440	14.31	20997	17.91						
1409275-00	27173	8.00	33276	14.31	21245	17.92						

9/9/2014 9:31

Analyst: RAA

Internal Standard And RT Summary

9.9.14

9/9/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1409275-01	26920	8.00	34624	14.31	22974	17.92						
1409275-01	25911	8.00	32423	14.31	22100	17.91						
1409275-01	28348	8.00	35043	14.32	23229	17.92						
1409219-00	28050	8.01	37273	14.32	20417	17.92						
b3 9-8-201	24316	8.00	33553	14.31	19447	17.91						
1409275-00	23429	8.00	34053 D	14.31 D	18190 D	17.92 D						
b4 9-8-201	21714	8.01	32578	14.32	17631	17.92						
1409275-00	22865	8.00	32168 D	14.31 D	0 D	17.91 D						
1409170-00	27884	8.00	37812	14.31	20293	17.91						
1409170-00	26297	8.00	35115	14.31	19284	17.91						
1409170-00	25418	8.00	35303	14.31	18986	17.91						
b5 9-8-201	22134	8.00	32782	14.31	18530	17.91						
75ng ccv 9	23528	8.00	33487	14.31	18294	17.91						
vcb2 9-8-2	20100	8.00	30699	14.30	17148	17.91						
1409069-00	23368	8.00	31575	14.31	20673	17.91						
lcs-15146	26721	7.99	35273	14.31	22190	17.91						
mb-15146 9	27919	8.00	32708	14.31	21244	17.91						
1409226-00	27722	8.00	34070	14.31	22482	17.91						
1409226-00	27957	7.99	35512	14.31	22888	17.91						
1409226-00	28078	7.99	35463	14.31	21897	17.91						
1409245-00	26031	8.00	34388	14.31	19405	17.91						
1408e83-00	22379	8.00	31204	14.31	17734	17.91						
1408f60-00	21991	8.00	32001	14.30	17670	17.91						
1408f60-00	22236	8.00	30601	14.31	17681	17.91						
1408f60-00	19913	8.00	30108	14.31	16507	17.91						
1408f60-00	19704	8.00	28821	14.31	16864	17.91						
1408f60-00	21348	8.00	30009	14.31	16764	17.91						
1409038-00	20008	8.00	31078	14.31	16802	17.91						
1409038-00	19552	8.00	27722	14.31	16362	17.91						
1409038-00	20846	8.00	28879	14.31	16476	17.91						
1409038-00	19788	8.00	29354	14.31	16388	17.91						
1409038-00	19868	8.00	29869	14.31	16514	17.91						
tt 9-9-201	20347	8.00	30085	14.31	16349	17.91						

9/9/2014 9:31

Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3		

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/8/2014 Time: 9:39

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.182	0.100	100.00	159.83	-59.8	30.0	FAIL	PASS
Chloromethane	0.390	0.100	100.00	84.62	15.4	30.0	PASS	PASS
Vinyl chloride	1.409	0.100	100.00	104.26	-4.3	20.0	PASS	PASS
Chloroethane	0.234	0.100	100.00	104.27	-4.3	30.0	PASS	PASS
Bromomethane	1.348	0.100	100.00	160.90	-60.9	30.0	FAIL	PASS
Trichlorofluoromethane	0.939	0.100	100.00	113.24	-13.2	30.0	PASS	PASS
1,1-Dichloroethene	1.349	0.100	100.00	112.44	-12.4	20.0	PASS	PASS
Acetone	0.450	0.100	200.00	184.42	7.8	40.0	PASS	PASS
Carbon disulfide	1.156	0.100	200.00	246.48	-23.2	40.0	PASS	PASS
Iodomethane	0.121	0.100	200.00	64.29	67.9	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.291	0.100	200.00	205.88	-2.9	30.0	PASS	PASS
Isopropyl ether	1.483	0.100	200.00	221.13	-10.6	40.0	PASS	PASS
tert-Butyl alcohol	0.289	0.100	2000.00	2126.31	-6.3	40.0	PASS	PASS
trans-1,2-DCE	1.494	0.100	100.00	107.60	-7.6	30.0	PASS	PASS
tert-Butyl ethyl ether	2.949	0.100	200.00	224.15	-12.1	40.0	PASS	PASS
1,1-Dichloroethane	1.423	0.100	100.00	98.68	1.3	30.0	PASS	PASS
Methylene Chloride	1.575	0.100	100.00	107.36	-7.4	30.0	PASS	PASS
Vinyl Acetate	1.950	0.100	200.00	217.87	-8.9	40.0	PASS	PASS
2,2-Dichloropropane	0.892	0.100	100.00	111.42	-11.4	30.0	PASS	PASS
2-Butanone	0.480	0.100	200.00	177.79	11.1	40.0	PASS	PASS
1,1,1-Trichloroethane	1.496	0.100	100.00	100.96	-1.0	30.0	PASS	PASS
tert-Amyl methyl ether	1.411	0.100	200.00	205.77	-2.9	40.0	PASS	PASS
1,1-Dichloropropene	0.668	0.100	100.00	100.56	-0.6	30.0	PASS	PASS
Carbon Tetrachloride	3.237	0.100	100.00	105.12	-5.1	30.0	PASS	PASS
cis-1,2-DCE	1.995	0.100	100.00	103.50	-3.5	30.0	PASS	PASS
Benzene	1.906	0.100	100.00	105.56	-5.6	30.0	PASS	PASS
Chloroform	1.459	0.100	100.00	118.07	-18.1	20.0	PASS	PASS
Bromochloromethane	0.542	0.100	100.00	124.33	-24.3	30.0	PASS	PASS
Trichloroethene (TCE)	1.441	0.100	100.00	119.59	-19.6	30.0	PASS	PASS
Dibromofluoromethane	1.589	0.100	50.00	46.18	7.6	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.205	0.100	50.00	46.28	7.4	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.806	0.100	100.00	109.53	-9.5	30.0	PASS	PASS
1,2-Dichloropropane	2.008	0.100	100.00	109.65	-9.7	20.0	PASS	PASS
4-Methyl-2-pentanone	2.096	0.100	200.00	223.25	-11.6	40.0	PASS	PASS
Toluene-d8	1.828	0.100	50.00	46.71	6.6	30.0	PASS	PASS

9/8/2014 10:06

Analyst: djf

100ng ccv 9-8-2014.sms

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
Toluene	2.780	0.100	100.00	105.40	-5.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.821	0.100	200.00	162.88	18.6	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.295	0.100	100.00	102.78	-2.8	30.0	PASS	PASS
cis-1,3-dichloropropene	2.037	0.100	100.00	98.20	1.8	30.0	PASS	PASS
2-Hexanone	1.011	0.100	200.00	221.92	-11.0	40.0	PASS	PASS
Bromodichloromethane	2.545	0.100	100.00	101.14	-1.1	30.0	PASS	PASS
Dibromomethane	1.124	0.100	100.00	96.89	3.1	30.0	PASS	PASS
1,3-Dichloropropane	1.413	0.100	100.00	96.69	3.3	30.0	PASS	PASS
trans-1,3-dichloropropene	0.717	0.100	100.00	91.80	8.2	30.0	PASS	PASS
Ethylbenzene	3.002	0.100	100.00	102.07	-2.1	20.0	PASS	PASS
mp-Xylenes	2.724	0.100	200.00	202.18	-1.1	30.0	PASS	PASS
1,1,2-Trichloroethane	1.661	0.100	100.00	95.02	5.0	30.0	PASS	PASS
Chlorobenzene	1.255	0.300	100.00	96.75	3.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.443	0.100	100.00	102.30	-2.3	30.0	PASS	PASS
o-Xylene	2.662	0.100	100.00	99.98	0.0	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.160	0.100	100.00	94.07	5.9	30.0	PASS	PASS
Dibromochloromethane	1.295	0.100	100.00	99.80	0.2	30.0	PASS	PASS
Isopropylbenzene	2.413	0.100	100.00	92.56	7.4	30.0	PASS	PASS
Styrene	1.216	0.100	100.00	95.90	4.1	30.0	PASS	PASS
n-Propylbenzene	6.252	0.100	100.00	101.95	-2.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.271	0.100	100.00	96.50	3.5	30.0	PASS	PASS
tert-Butylbenzene	4.335	0.100	100.00	88.75	11.2	30.0	PASS	PASS
2-Chlorotoluene	1.402	0.100	100.00	89.76	10.2	30.0	PASS	PASS
4-Bromofluorobenzene	1.715	0.100	50.00	42.07	15.9	30.0	PASS	PASS
sec-Butylbenzene	2.642	0.100	100.00	77.50	22.5	30.0	PASS	PASS
4-Chlorotoluene	1.460	0.100	100.00	89.78	10.2	30.0	PASS	PASS
Bromobenzene	1.357	0.100	100.00	100.32	-0.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.413	0.100	100.00	94.27	5.7	30.0	PASS	PASS
4-Isopropyltoluene	4.608	0.100	100.00	94.37	5.6	30.0	PASS	PASS
Bromoform	1.847	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
1,2,3-Trichloropropane	1.159	0.100	100.00	86.20	13.8	30.0	PASS	PASS
n-Butylbenzene	4.646	0.100	100.00	101.14	-1.1	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.890	0.300	100.00	103.22	-3.2	30.0	PASS	PASS
1,3-Dichlorobenzene	2.048	0.100	100.00	97.76	2.2	30.0	PASS	PASS
1,4-Dichlorobenzene	1.924	0.100	100.00	94.89	5.1	30.0	PASS	PASS
1,2-Dichlorobenzene	1.908	0.100	100.00	94.03	6.0	30.0	PASS	PASS
Hexachlorobutadiene	4.301	0.100	100.00	88.54	11.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.773	0.100	100.00	99.36	0.6	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.510	0.100	100.00	95.51	4.5	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.530	0.100	100.00	96.11	3.9	30.0	PASS	PASS
Naphthalene	2.939	0.100	100.00	95.28	4.7	30.0	PASS	PASS
2-Methylnaphthalene	2.295	0.100	100.00	101.56	-1.6	40.0	PASS	PASS
1-Methylnaphthalene	2.214	0.100	100.00	101.25	-1.2	40.0	PASS	PASS

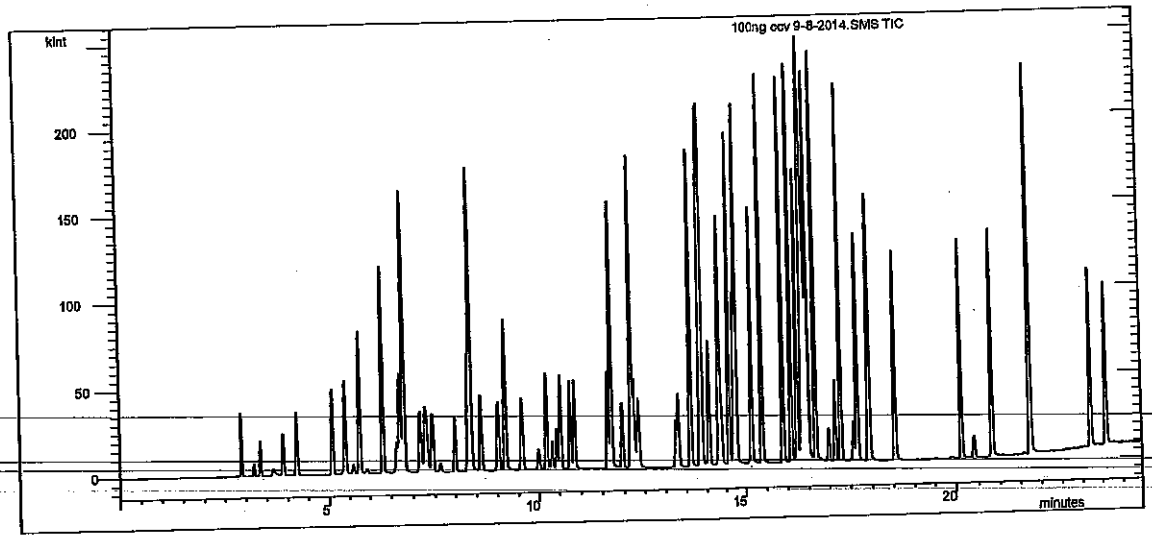
11-9-9-14

1/pass 9/11/14

Analyst: djf

8260B/624 Report

Sample Name:	100ng ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0481	**Acquisition Date:**	9/8/2014 9:39:01 AM
Calculation Date:	9/8/2014 10:03:30 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.993	635	Identified	23423	50.000
Benzene-d5-, chloro-	14.301	1192	Identified	34834	50.000
1,4-Dichlorobenzene-d4	17.905	1511	Identified	19427	50.000
Dichlorodifluoromethane	2.903	184	Identified	102225	159.829
Chloromethane	3.203	211	Identified	18256	84.616
Vinyl chloride	3.350	224	Identified	65986	104.262
Chloroethane	3.883	271	Identified	10945	104.268
Bromomethane	3.901	273	Identified	63141	160.901
Trichlorofluoromethane	4.223	301	Identified	43987	113.244
1,1-Dichloroethene	5.083	377	Identified	63207	112.441
Acetone	5.364	402	Identified	42123	184.418
Carbon disulfide	5.396	405	Identified	108340	246.477
Iodomethane	5.599	423	Identified	11322	64.292
Methyl tert-butyl ether (MTBE)	5.750	436	Identified	120947	205.877
Isopropyl ether	6.308	486	Identified	138928	221.126
tert-Butyl alcohol	6.633	514	Identified	270430	2126.310
trans-1,2-DCE	6.711	521	Identified	70007	107.597
tert-Butyl ethyl ether	6.798	529	Identified	276295	224.152
1,1-Dichloroethane	7.173	562	Identified	66650	98.677
Methylene Chloride	7.288	572	Identified	73779	107.360
Vinyl Acetate	7.342	577	Identified	182728	217.867
2,2-Dichloropropane	7.449	586	Identified	41808	111.419
2-Butanone	7.636	603	Identified	44930	177.791
1,1,1-Trichloroethane	8.306	663	Identified	70102	100.956

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.365	668	Identified	132207	205.769
1,1-Dichloropropene	8.380	669	Identified	31287	100.559
Carbon Tetrachloride	8.610	689	Identified	151620	105.121
cis-1,2-DCE	9.024	726	Identified	93480	103.496
Benzene	9.188	740	Identified	89266	105.556
Chloroform	9.583	775	Identified	68332	118.068
Bromochloromethane	9.992	811	Identified	25395	124.334
Trichloroethene (TCE)	10.187	828	Identified	67486	119.586
Dibromofluoromethane	10.324	841	Identified	37229	46.180
1,2-Dichloroethane-d4	10.439	851	Identified	98496	46.281
1,2-Dichloroethane (EDC)	10.530	859	Identified	84596	109.534
1,2-Dichloropropane	10.760	879	Identified	94050	109.654
4-Methyl-2-pentanone	10.859	888	Identified	196418	223.247
Toluene-d8	11.628	956	Identified	63686	46.714
Toluene	11.708	963	Identified	193645	105.403
2-Chloroethyl vinyl ether	11.962	985	Identified	114449	162.879
Tetrachloroethene (PCE)	12.172	1004	Identified	90221	102.783
cis-1,3-dichloropropene	12.171	1004	Identified	141937	98.197
2-Hexanone	12.177	1004	Identified	140890	221.923
Bromodichloromethane	12.241	1010	Identified	177326	101.137
Dibromomethane	12.346	1019	Identified	78332	96.888
1,3-Dichloropropane	13.247	1099	Identified	98436	96.694
trans-1,3-dichloropropene	13.309	1104	Identified	49981	91.798
Ethylbenzene	13.605	1130	Identified	209162	102.073
mp-Xylenes	13.856	1152	Identified	379531	202.181
1,1,2-Trichloroethane	14.058	1170	Identified	115712	95.022
Chlorobenzene	14.322	1194	Identified	87420	96.745
1,2-Dibromoethane (EDB)	14.380	1199	Identified	100524	102.298
o-Xylene	14.573	1216	Identified	185483	99.983
1,1,1,2-Tetrachloroethane	14.701	1227	Identified	150454	94.067
Dibromochloromethane	14.730	1230	Identified	90230	99.795
Isopropylbenzene	14.765	1233	Identified	168115	92.564
Styrene	15.158	1267	Identified	84697	95.896
n-Propylbenzene	15.400	1289	Identified	242920	101.955
1,3,5-Trimethylbenzene	15.890	1332	Identified	165961	96.497
tert-Butylbenzene	16.085	1349	Identified	168423	88.754
2-Chlorotoluene	16.235	1362	Identified	54465	89.757
4-Bromofluorobenzene	16.330	1371	Identified	33309	42.074
sec-Butylbenzene	16.362	1374	Identified	102665	77.498
4-Chlorotoluene	16.398	1377	Identified	56738	89.781
Bromobenzene	16.438	1380	Identified	52711	100.317
1,2,4-Trimethylbenzene	16.489	1385	Identified	171461	94.265
4-Isopropyltoluene	16.650	1399	Identified	179058	94.372
Bromoform	16.980	1428	Identified	71760	107.337
1,2,3-Trichloropropane	17.150	1443	Identified	45043	86.196
n-Butylbenzene	17.279	1455	Identified	180528	101.139
1,1,2,2-Tetrachloroethane	17.573	1481	Identified	73444	103.217
1,3-Dichlorobenzene	17.659	1489	Identified	79562	97.759
1,4-Dichlorobenzene	17.930	1513	Identified	74736	94.888
1,2-Dichlorobenzene	18.536	1566	Identified	74115	94.033

Operator: Danny Ferraro Inj. Notes: V-54-0481 100ng ccv 9-8-2014.SMS

9/8/2014 10:04

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.121	1706	Identified	167103	88.545
1,2-Dibromo-3-chloropropane	20.409	1732	Identified	30035	99.356
1,2,4-Trichlorobenzene	20.819	1768	Identified	58655	95.511
1,2,3-Trichlorobenzene	21.721	1848	Identified	59434	96.110
Naphthalene	21.729	1848	Identified	114190	95.284
2-Methylnaphthalene	23.214	1983	Identified	89185	101.560
1-Methylnaphthalene	23.601	2018	Identified	86023	101.248

****
Revision Log
****

9/8/2014 10:03 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/8/2014 Time: 10:35

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.0ug gro ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

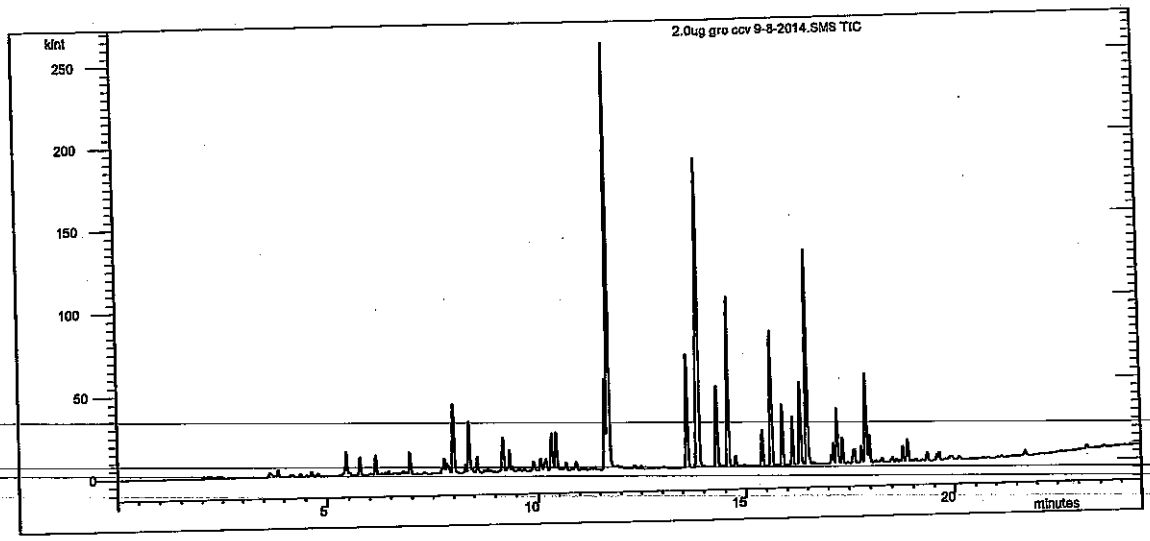
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2797.808	0.100	2.00	2.00	-0.2	20.0	PASS	PASS
BFB	0.977	0.100	50.00	46.95	6.1	30.0	PASS	PASS

9.8.14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.0ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/8/2014 10:35:03 AM
Calculation Date:	9/8/2014 11:02:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.301	1194	Identified	33204	50.000
GRO	11.000	903	Identified	3.716E6	2.003
BFB	16.332	1374	Identified	32456	46.954

```
**********************************************************
Revision Log
**********************************************************

9/8/2014 10:59 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\080114V 8260,624.mth'
9/8/2014 11:02 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

sList: C:\VarianWS\080114v.smp

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time @ 7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-a 11

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By: 8-4-14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ppl: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	rr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ppl: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: [signature] and [signature]

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VOL: 22,27ns
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

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Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3	
100ng icv	42059	7.99	59018	14.30	34060	17.90
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH
8/4/14

AREA#	RT #	AREA#	RT #	AREA#	RT #

JA 8.4.14

Internal Standard And RT Summary

8/4/2014 9:03
Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH 8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

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Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

100ng crv 8-1-2014.SMS

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Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

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Analyst: KJH

KJH 8/4/14

JH 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

JAF 8.4.14 KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

J 8-4-14

8/4/2014 9:03

Analyst: KJH

100ng crv 8-1-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

1 - hits on different crv.

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* Indicates Internal Standard.

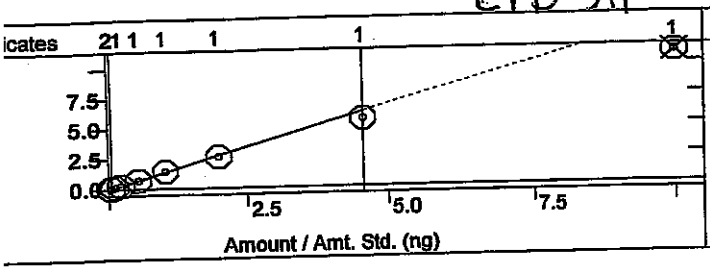
KJH 8/4/14

Analyst: KJH

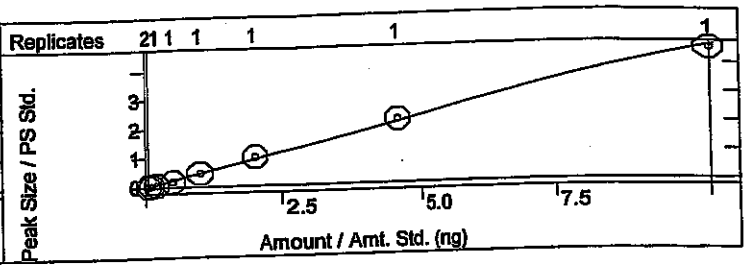
ıod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ık Measurement:	Area		

hlorodifluoromethane
ve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
+1.3682x -0.0093

CPD Fit



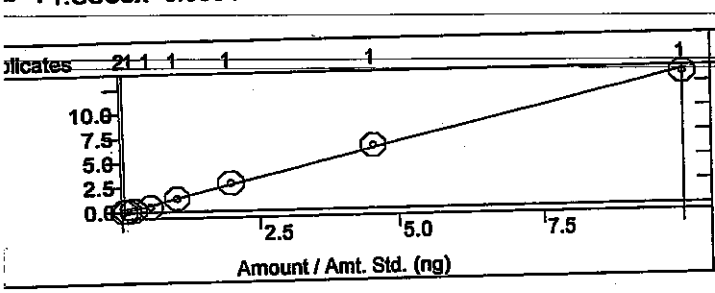
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

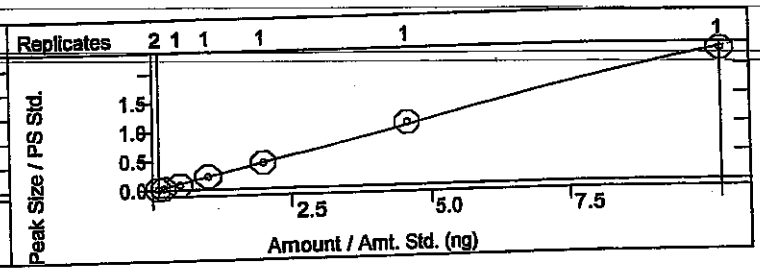


nyl chloride
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

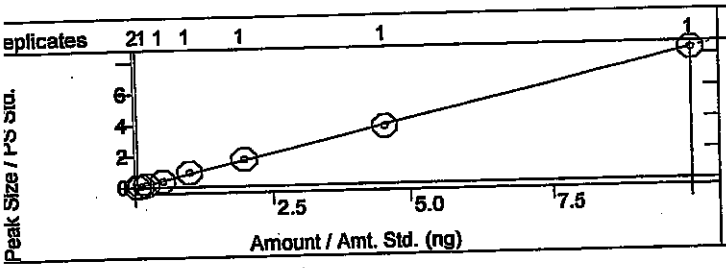
CPD Fit

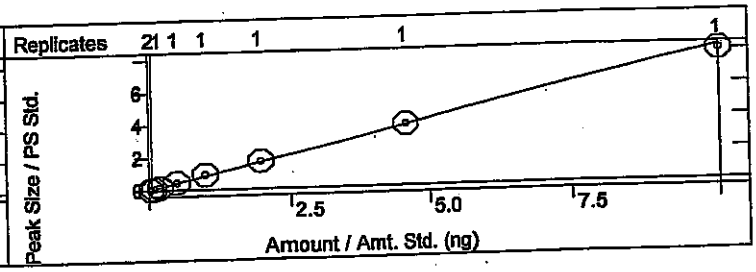




romomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
= +0.8387x -0.0032

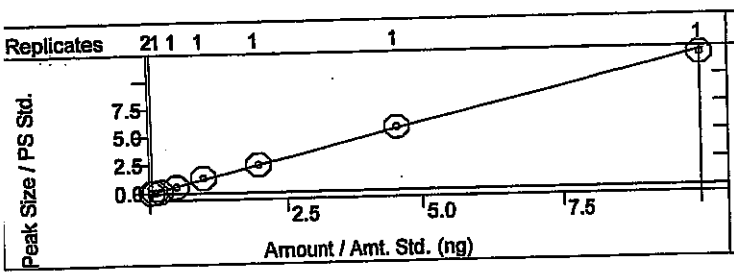
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090

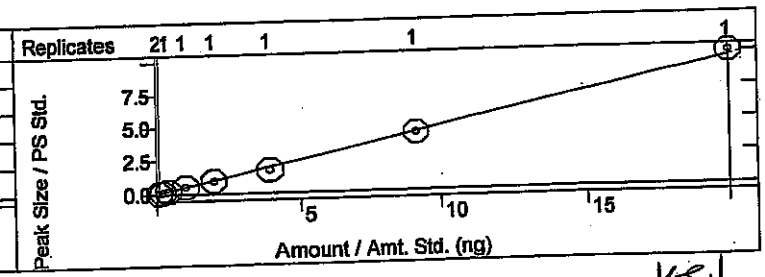




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237





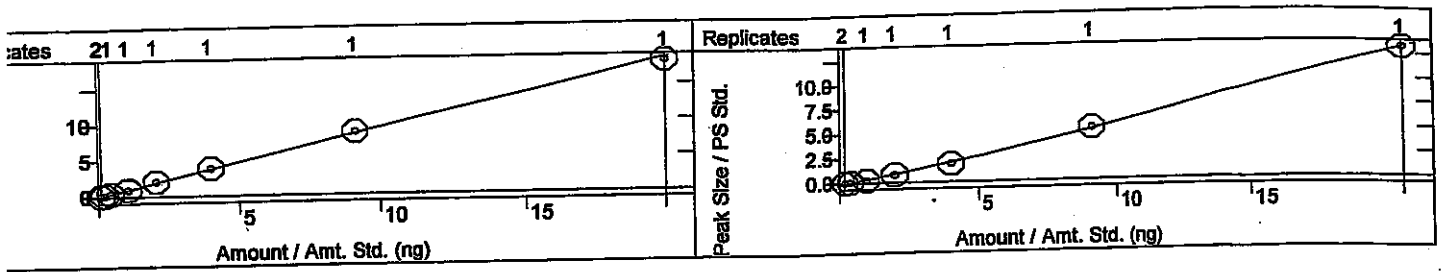
KSH 8/4/14

od:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
c Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
p. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

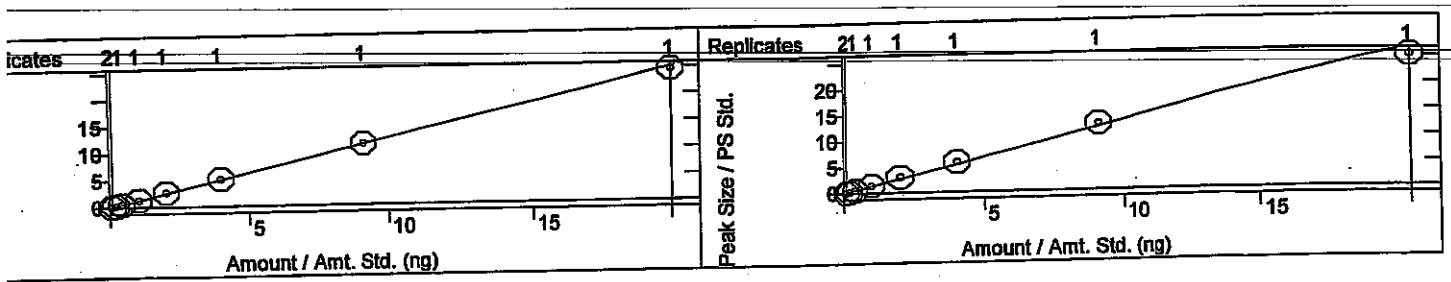
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

CPD Fit



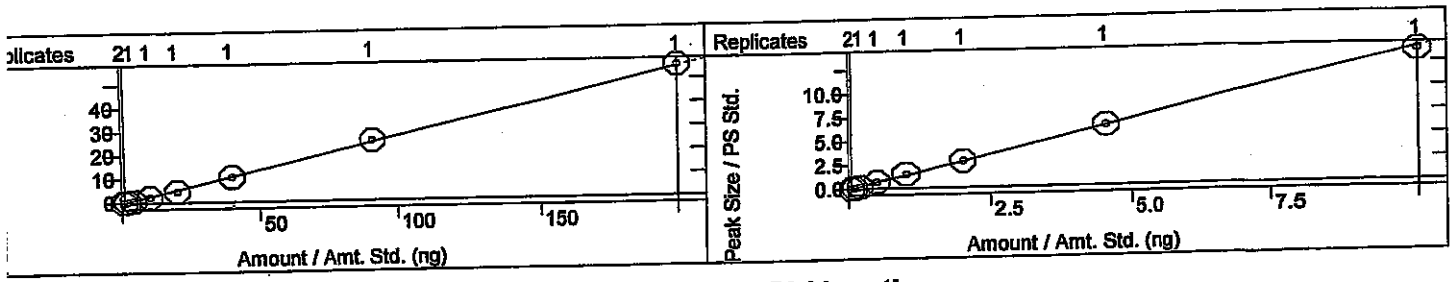
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



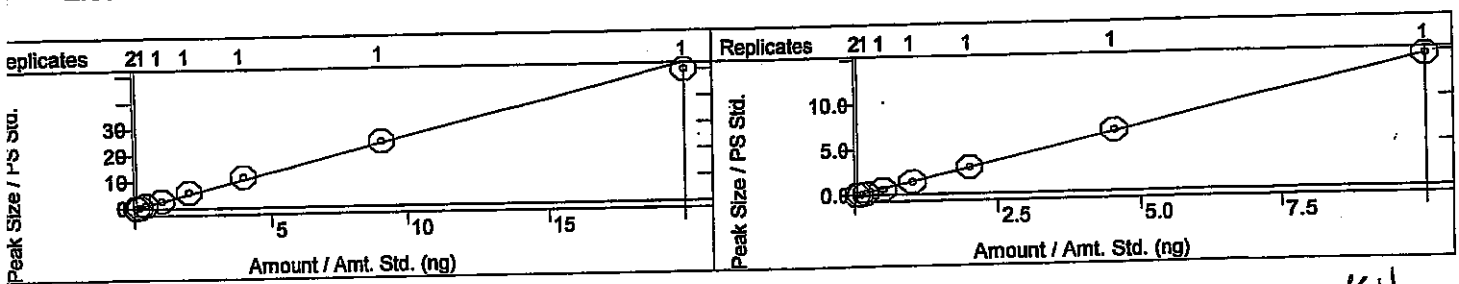
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
r = +2.6347x -0.0155

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489

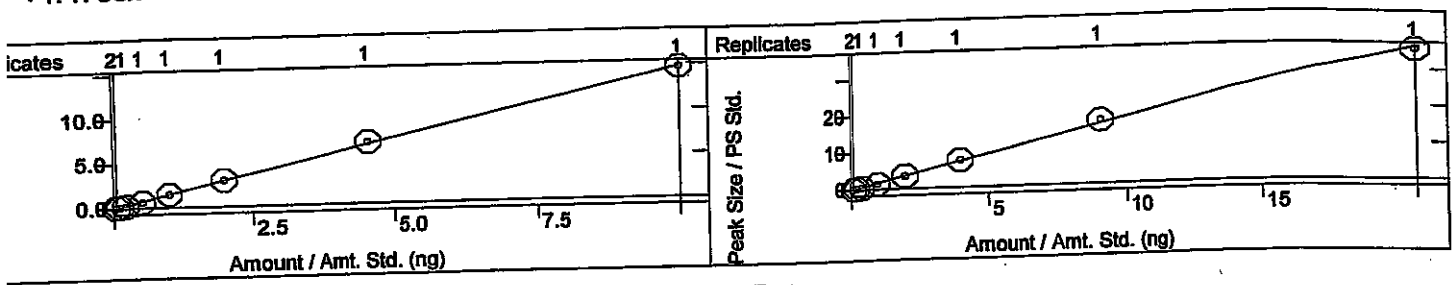


KSH 8/4/14

hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ık Measurement:	Area		

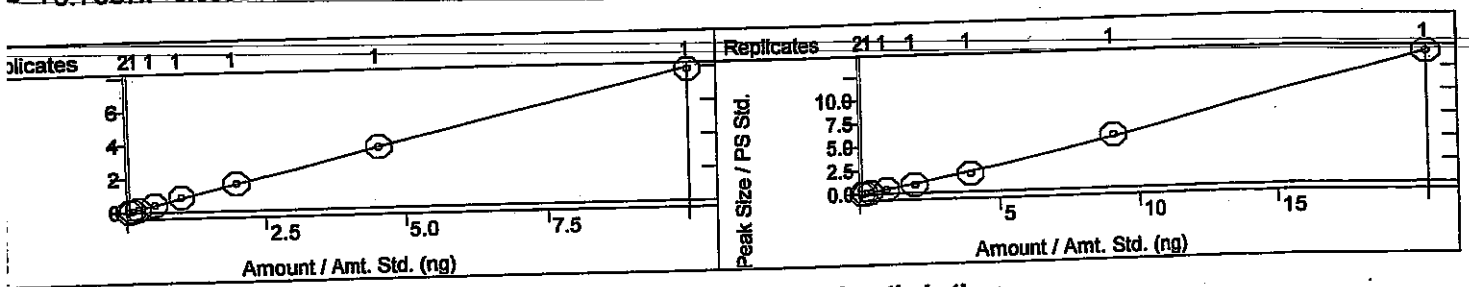
thylene Chloride
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278

Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



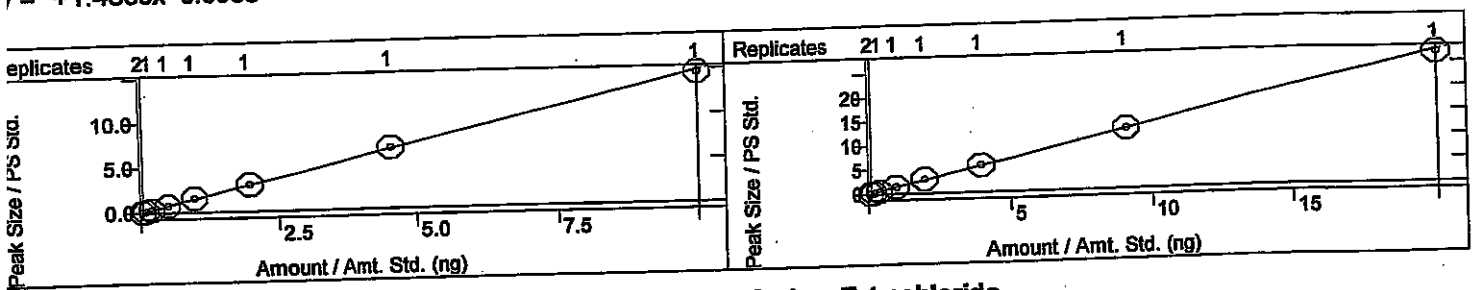
2-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



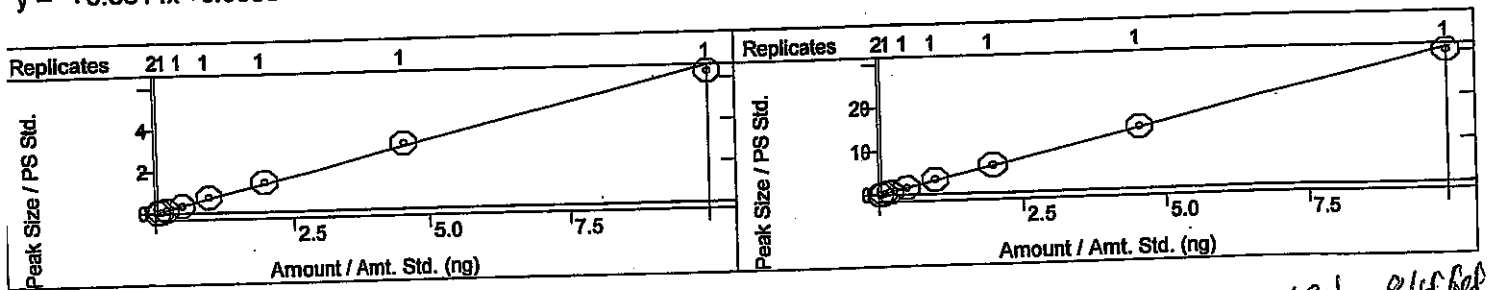
,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



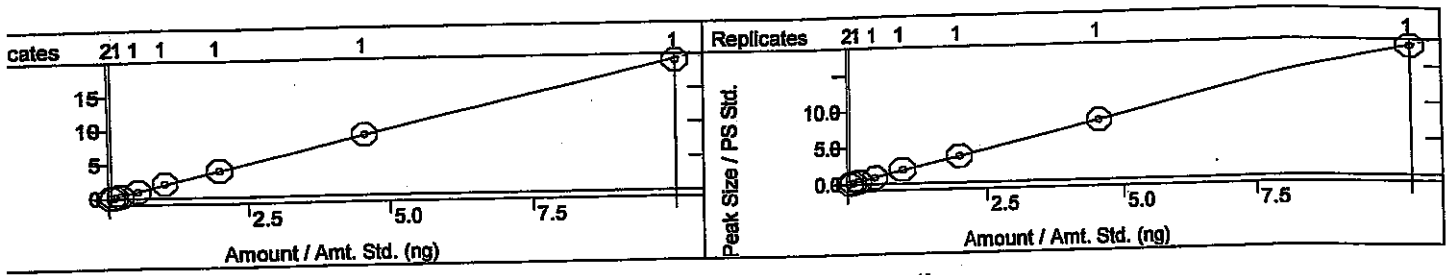
KSH 8/4/14

ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

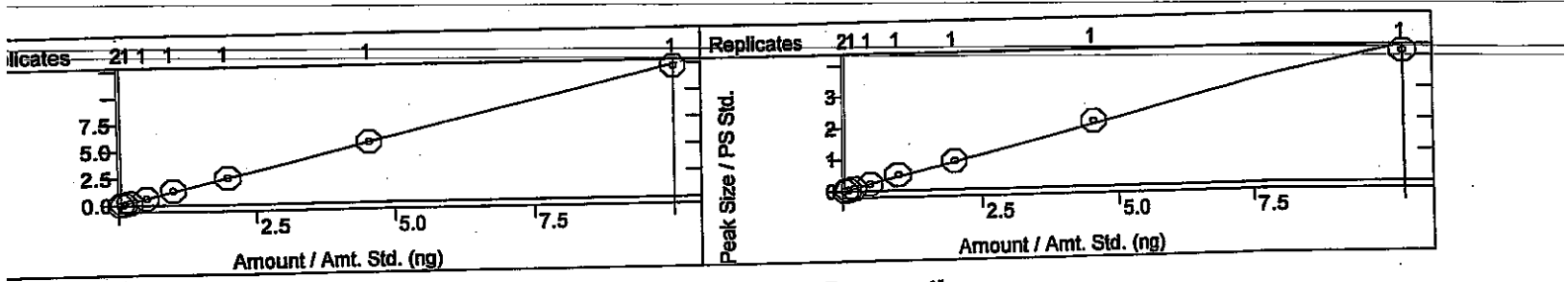
-1,2-DCE
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



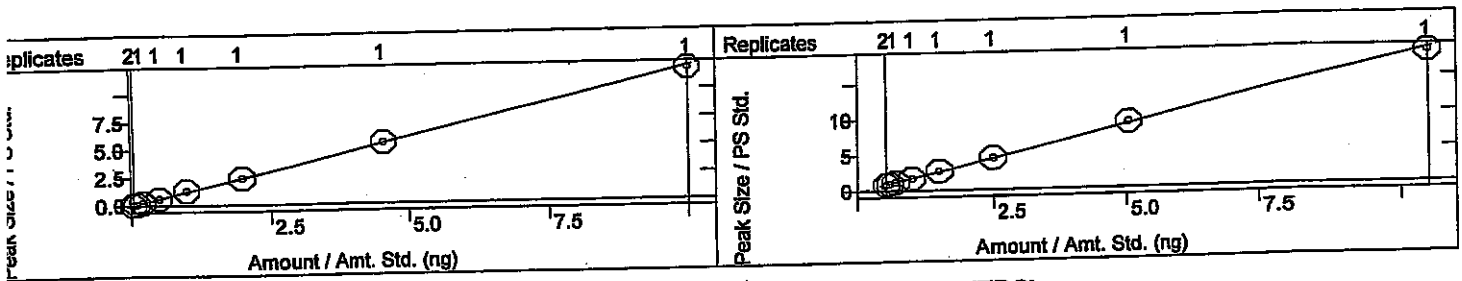
ıloroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
= +1.2389x -0.0082

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



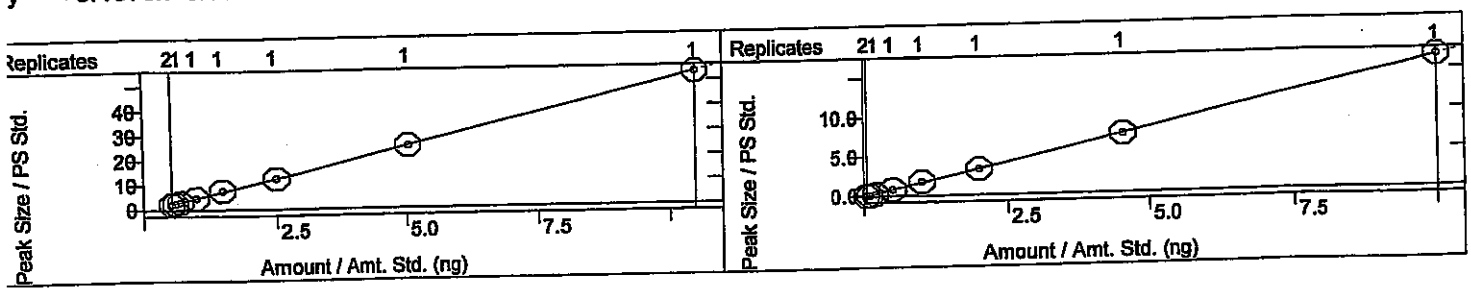
richloroethene (TCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034

Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455

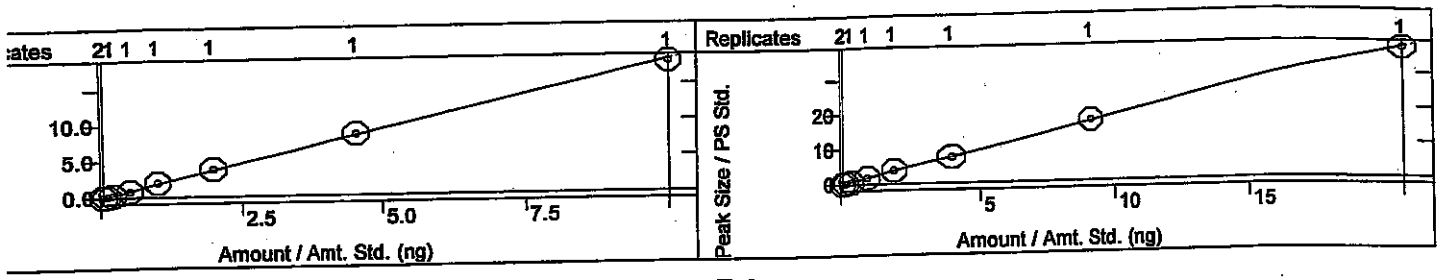


od:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
c Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

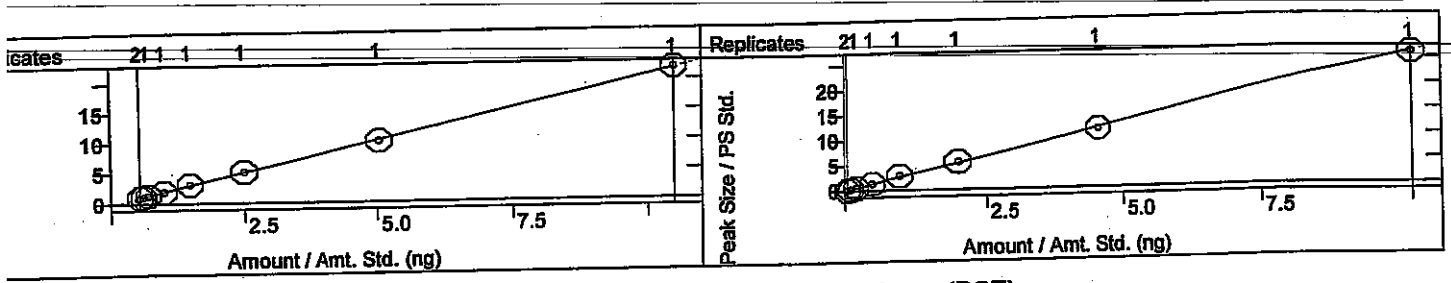
Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



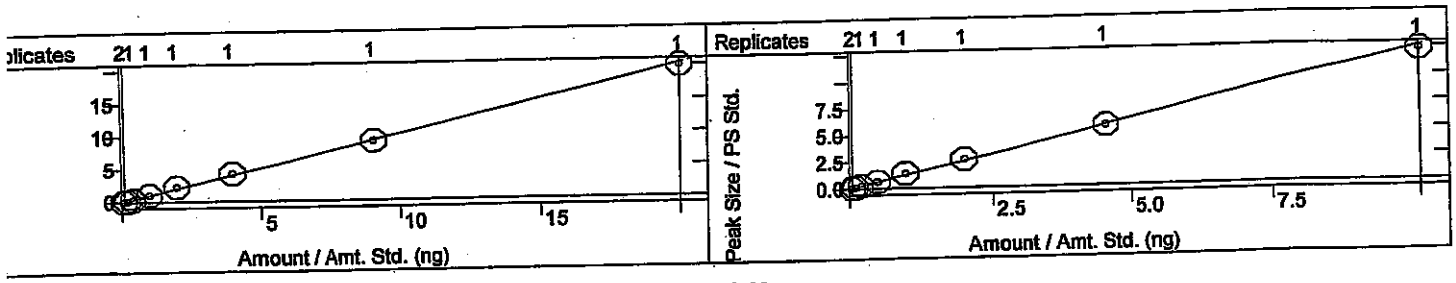
uene-d8
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
+2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



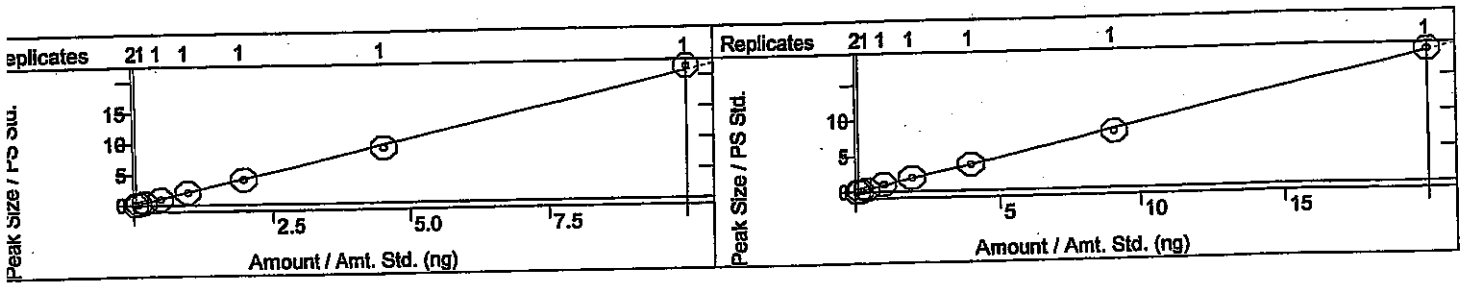
Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
= +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199

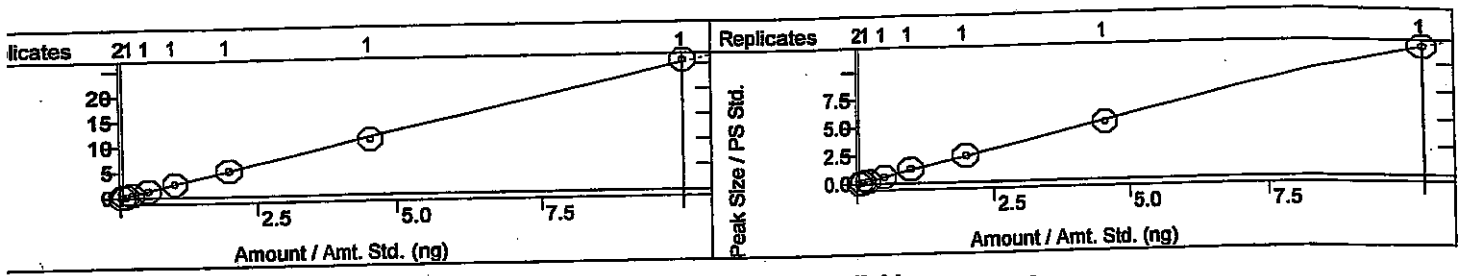


thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

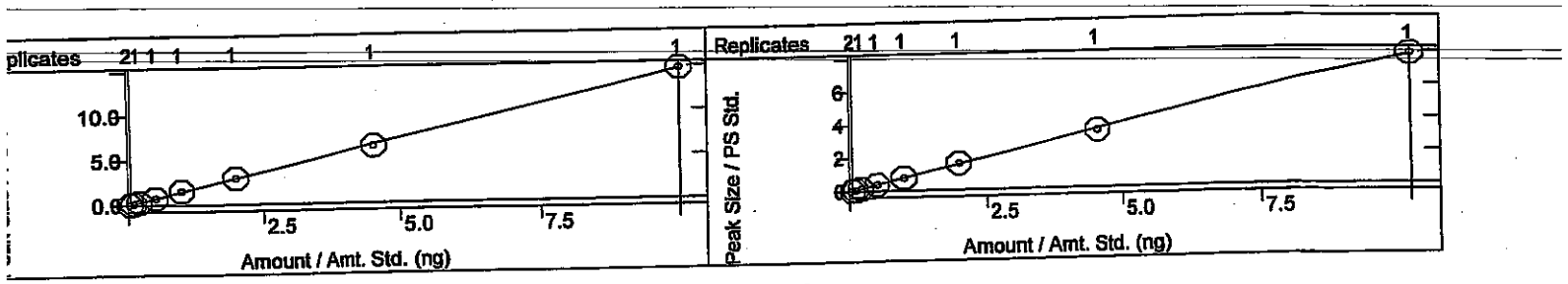
omodichloromethane
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
= +2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



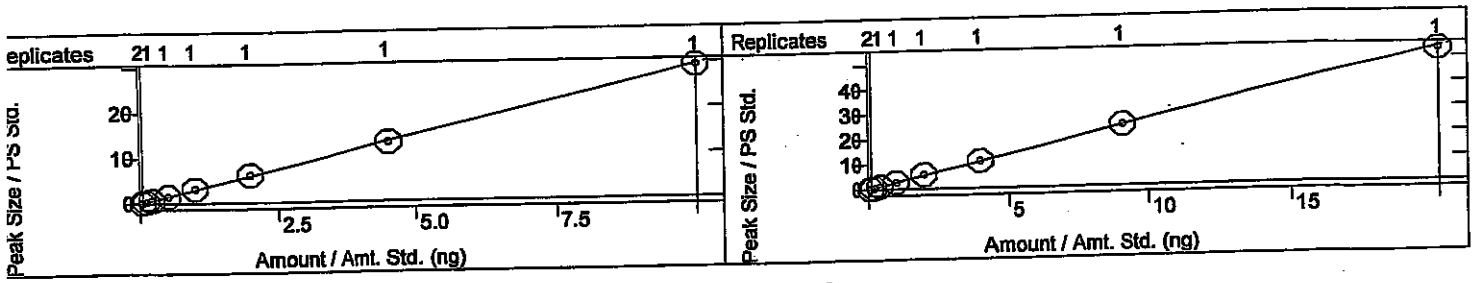
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



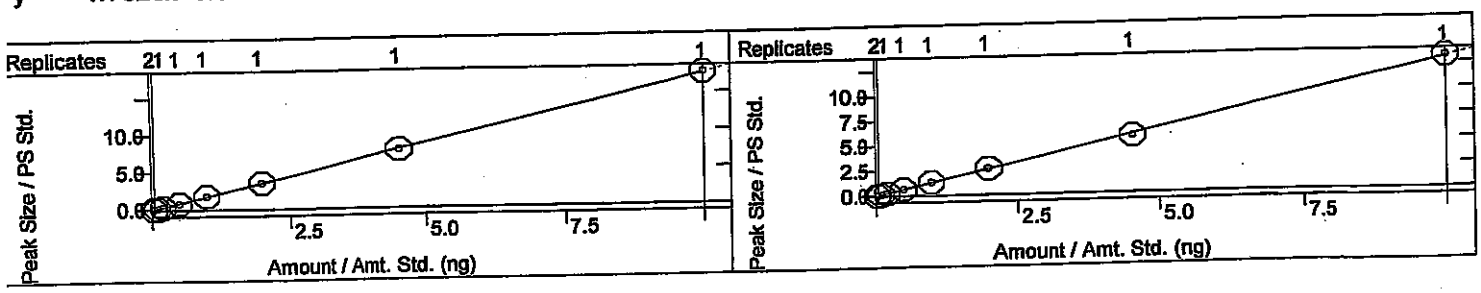
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
y = +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051

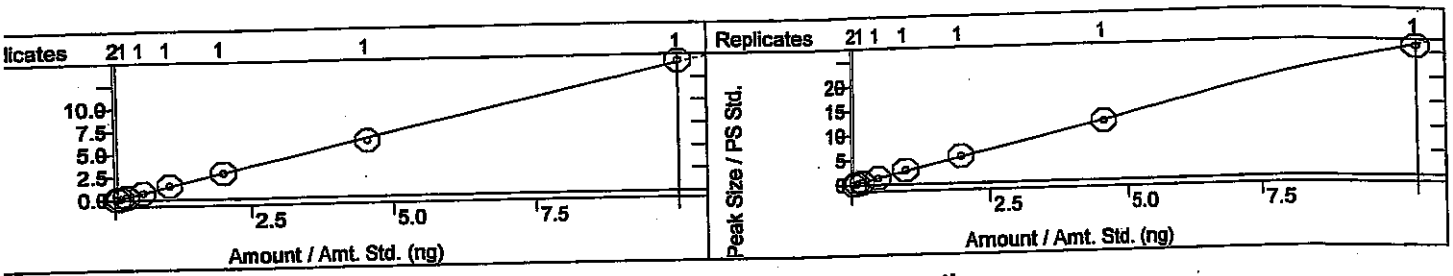


thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

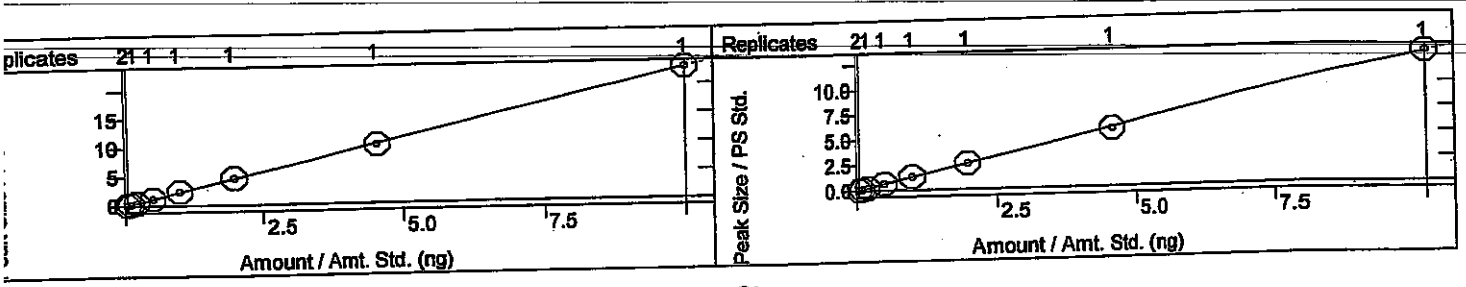
-Dibromoethane (EDB)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063

o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



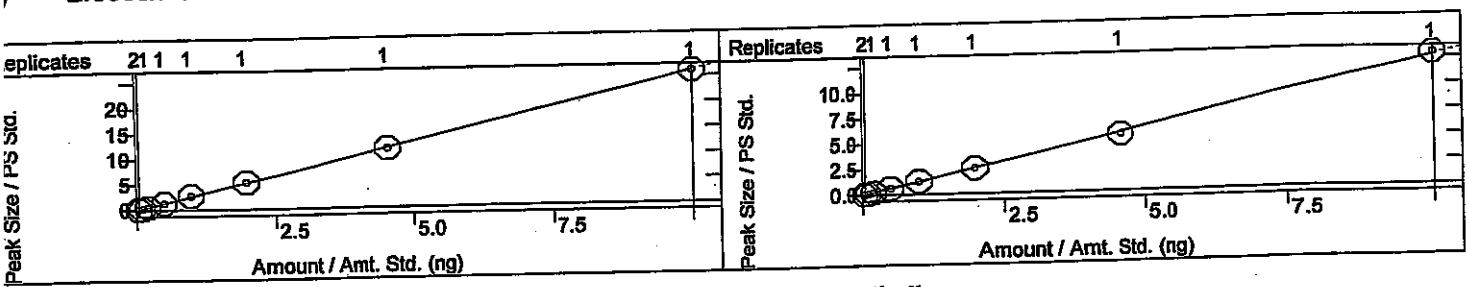
1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016

Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



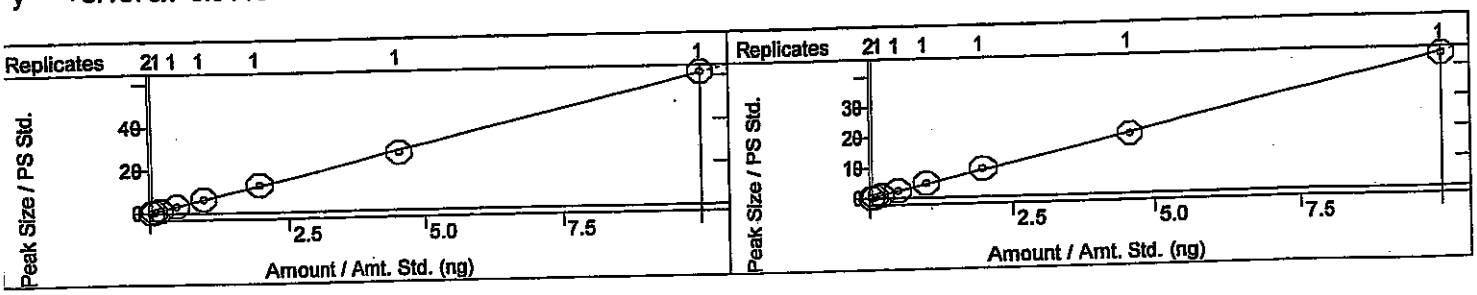
sopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035

Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

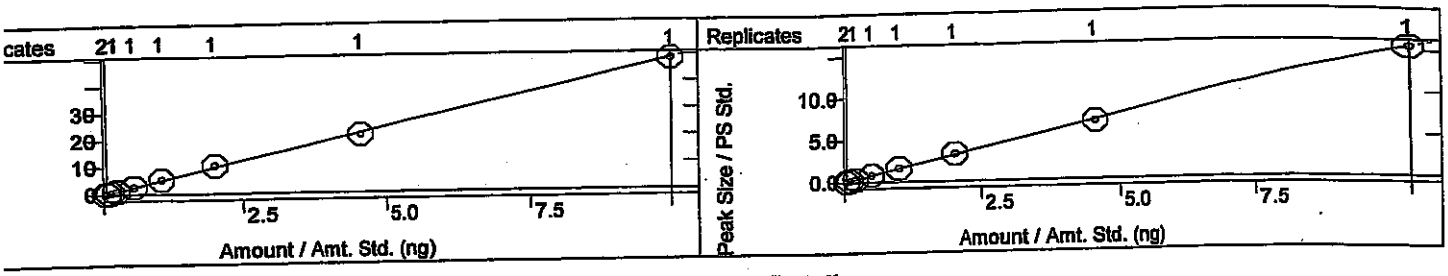


ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

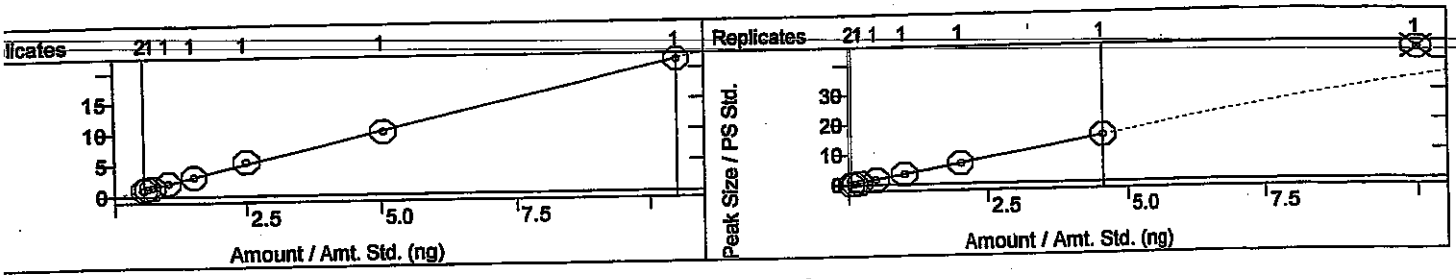
-Butylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



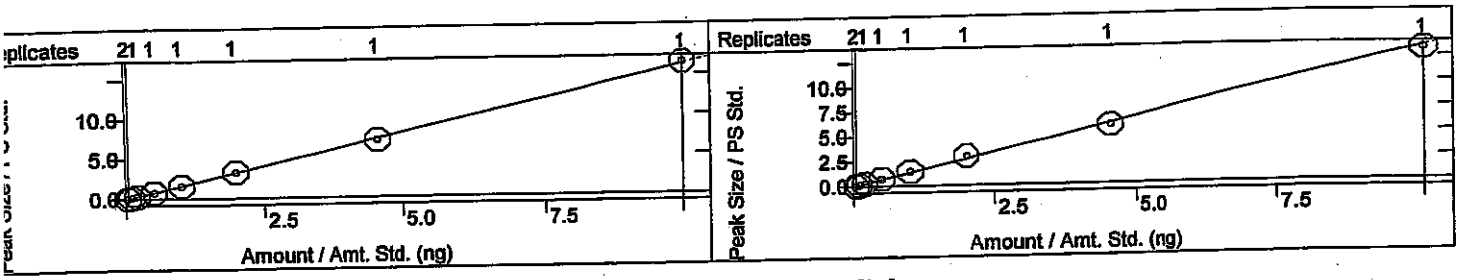
Bromofluorobenzene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



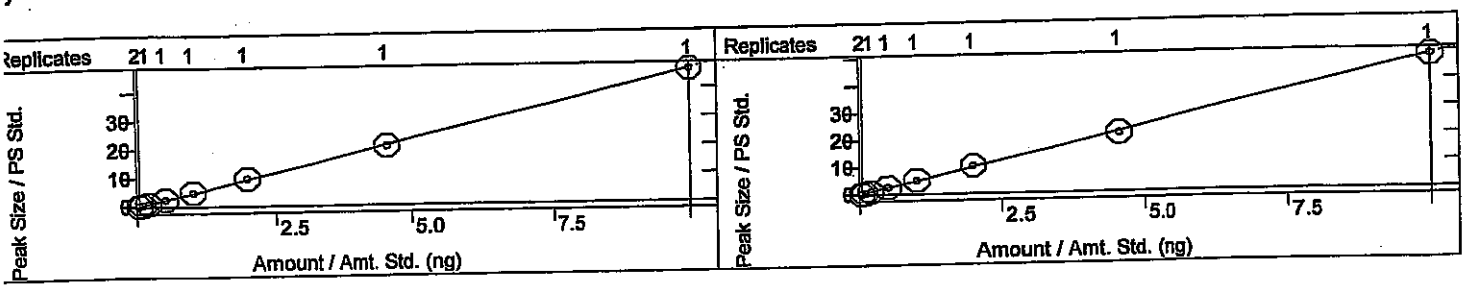
-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045

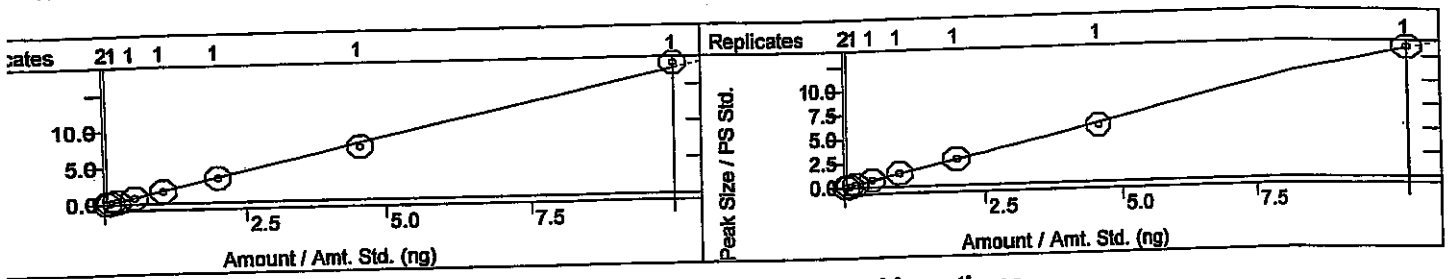


od:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
c Measurement:	Area		

KSH 8/14/14

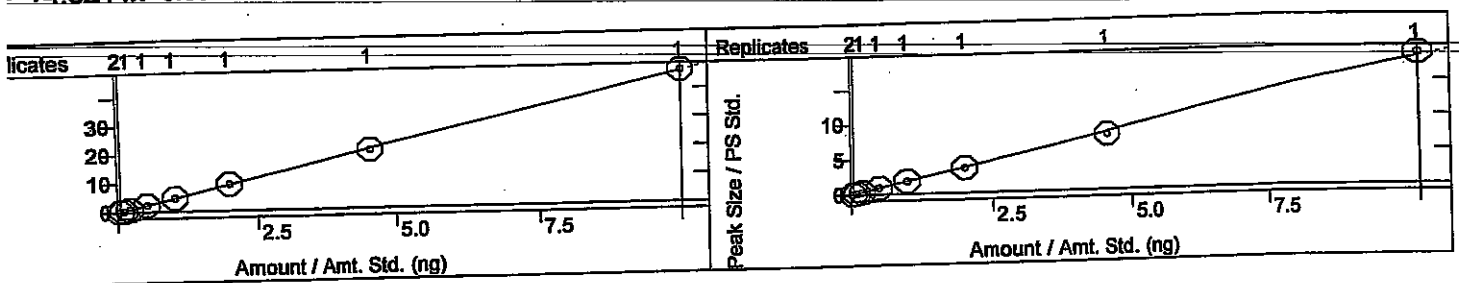
moform
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



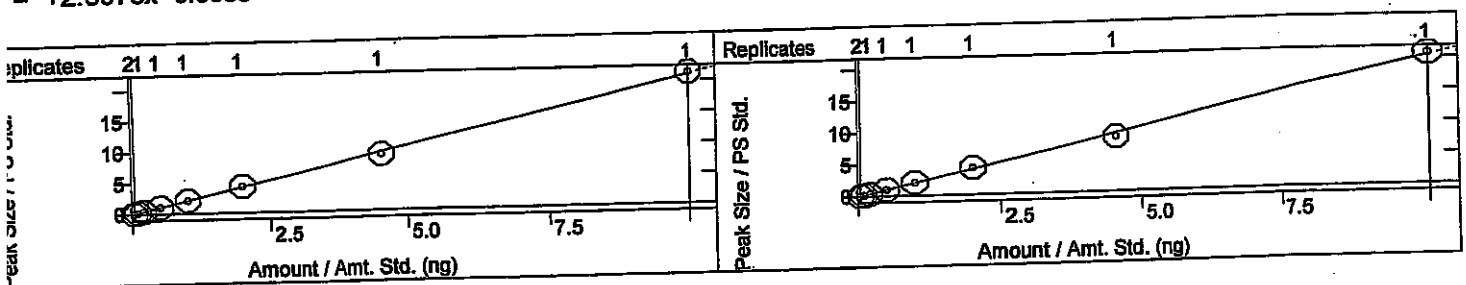
Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



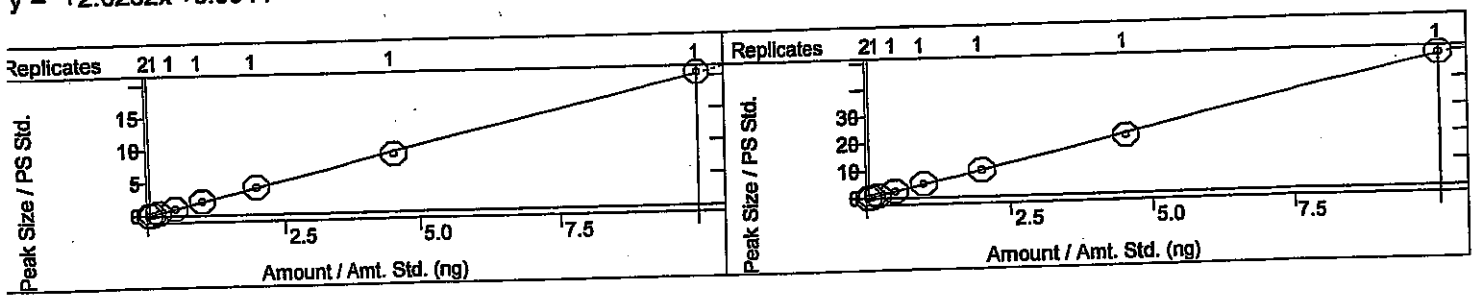
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
y = +2.0262x +0.0044

Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

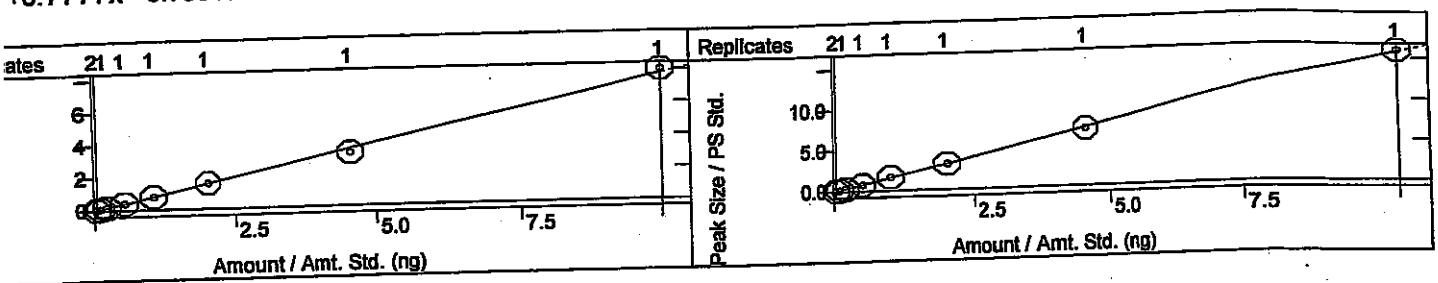


od:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
lc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ole List:	N/A	Detector:	2000 Mass Spec
ience:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
: Measurement:	Area		

KSH 8/4/14

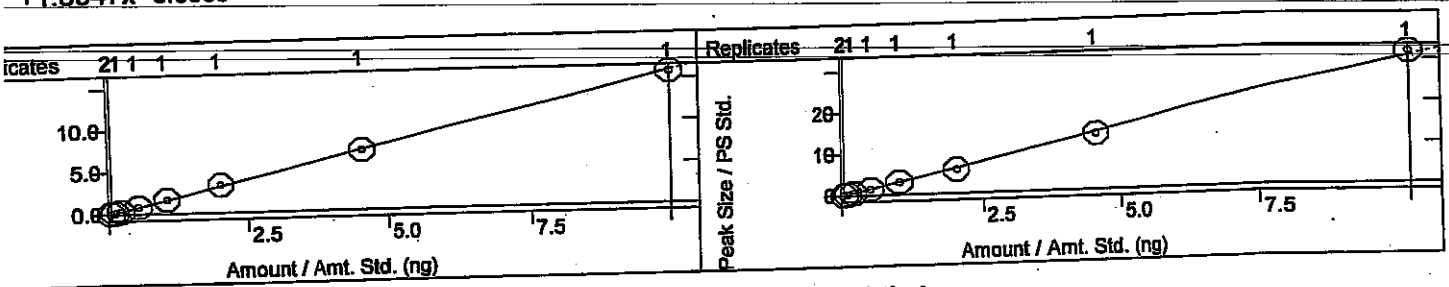
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



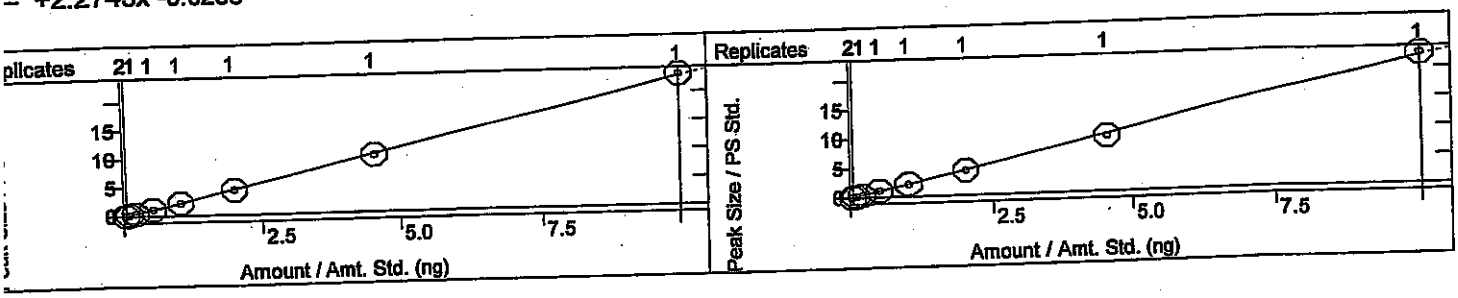
,3-Trichlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208

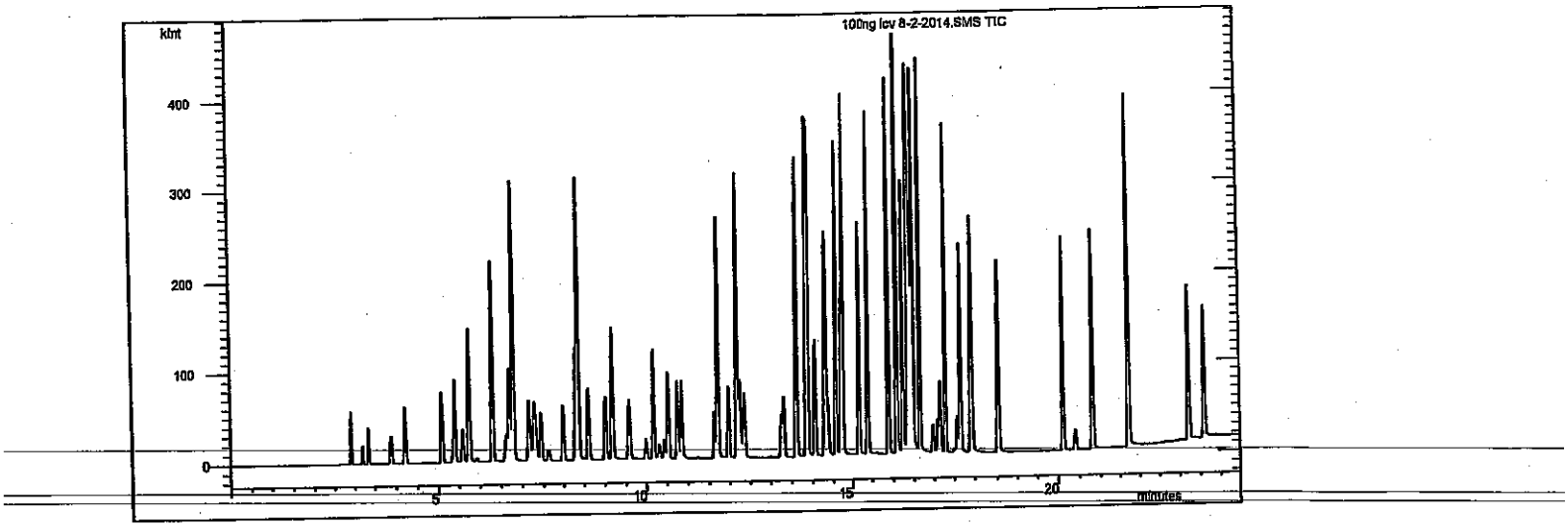


8260B/624 Report

Sample Name: 100ng icv **Operator Name:** Rene Aguilera **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** V-54-0446 **Acquisition Date:** 8/2/2014 12:15:51 AM

Calculation Date: 8/4/2014 8:46:43 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Operator: Rene Aguilera Inj. Notes: V-54-0446 100ng icv 8-2-2014.SMS

8/4/2014 8:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

an Star Workstation - Gemini Simphonies

leList: C:\VarianWS\070614v.smp

ted: Sun Jul 06 15:00:06 2014
fied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@5:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☐	☐	X	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	X	
1,4-Dioxane	☐	☐	☐	X	
trans-1,4-Dichloro-2-butene	☐	☐	X	☐	VQL: 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS | Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL | Date Analyzed: 7/6/2014 | Time Analyzed: 23:40

GC Column: DB-VRX | ID: 250 (mm) | Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7/7/2014 9:37

Analyst: RAA

7-7-14

JB 7/8/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

IS1 = Benzene-d5-, chloro- ☐

IS2 = BFB ☑

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

BA 7-7-14

NB 7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 7/7/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27 | 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

SJB 7/8/14

2.5ug gro crv 7-6-2014.SMS

7/7/2014 9:37

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

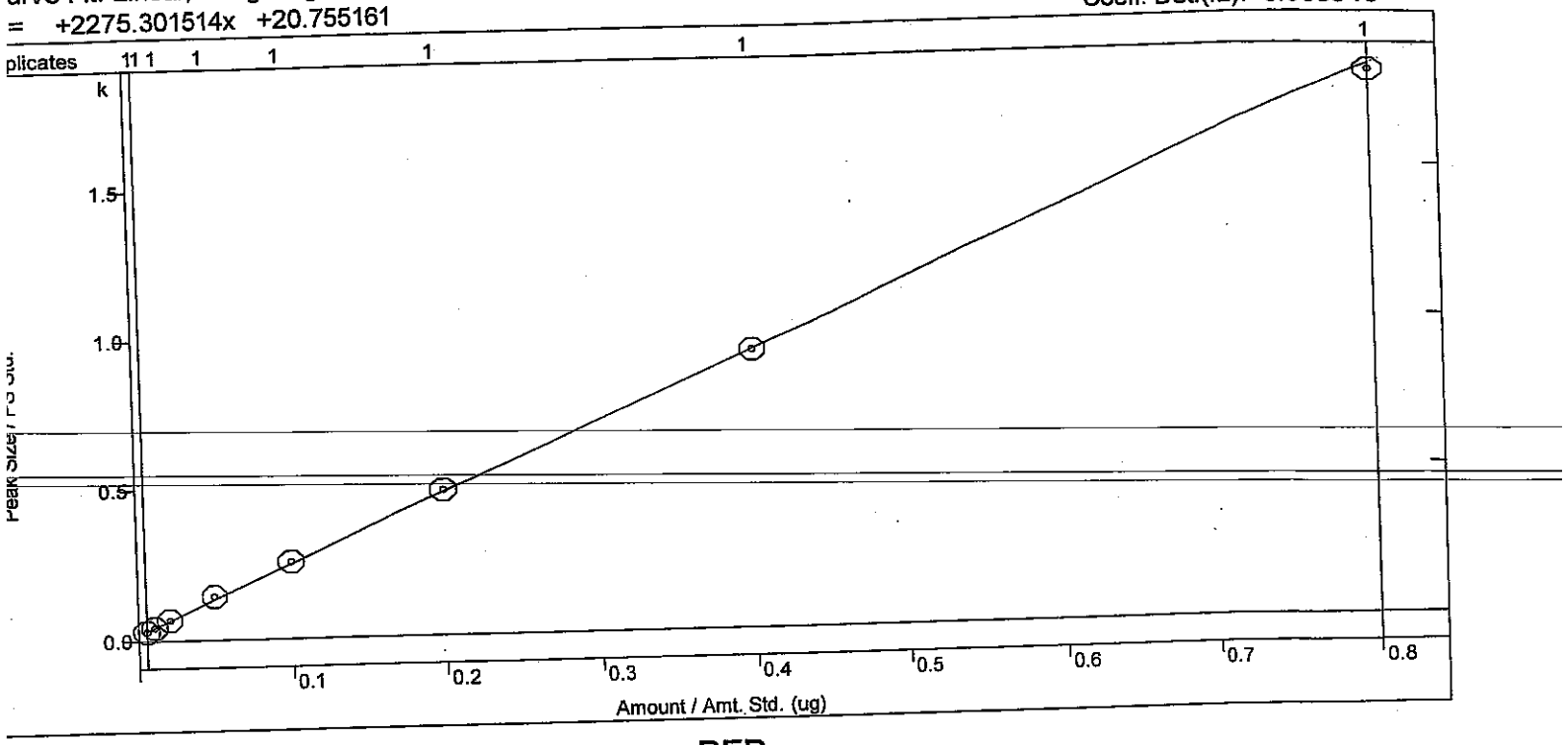
alibration Curves Report

thod:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
calc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
S Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

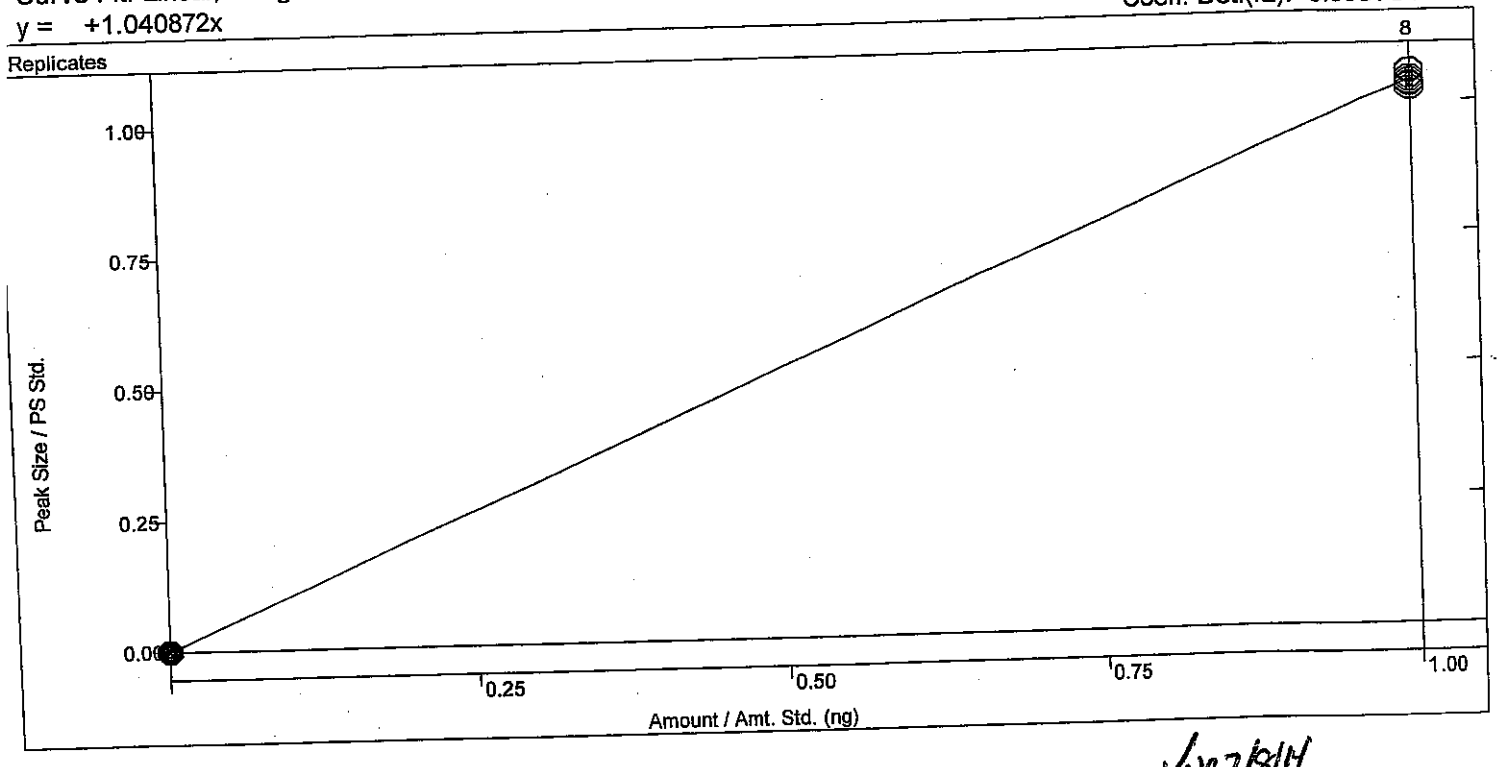
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

eneric SampleList Printout - Mon Sep 08 07:29:36 2014

ampleList: C:\AgilentWS\090514m.smp

reated: Fri Sep 05 07:54:54 2014
odified: Fri Sep 05 17:51:06 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	b3	none
4	mb-15137	none
5	5ppb 5035 ccv	below
	Notes V-54-0478	
6	5ppb 5035 ccv1	below
	Notes V-54-0478	
7	lcs-15137	below
	Notes V-11-8073	
8	b4	none
9	1409219-001a	below
	Notes x1 low level soil pb15137	
10	1409219-002a	below
	Notes x1 low level soil pb15137	
11	1409219-003a	below
	Notes x1 low level soil pb15137	
12	1409219-004a	below
	Notes x1 low level soil pb15137	
13	1409219-005a	below
	Notes x1 low level soil pb15137	
14	1409219-006a	below
	Notes x1 low level soil pb15137	
15	1409219-008a	below
	Notes x1 low level soil pb15137	
16	1409219-008ams	below
	Notes x1 low level soil pb15137 V-11-8073	
17	1409219-008amsd	below
	Notes x1 low level soil pb15137 V-11-8073	
18	b5	none
19	b6	none
20		

ure @ 10:11
NR lcs & ccv switched in autosampler
@ 11:09

Loaded By: 9.5.14
1st Review By: 9.8.14
QA'd By: 9.9.14

@ 11:25 r1 Y.cal

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090514m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \data\2014\0914m\090514m\5ppb 5035 ccv1 9-5-2014.SMS Lab Sample ID: 5ppb 5035 ccv1

Instrument ID: Mercury Date Analyzed: 9/5/2014 Time Analyzed: 11:09

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	71350	7.09	109348	13.40	42586	16.99						
UPPER LIMIT	142700	7.59	218696	13.90	85172	17.49						
LOWER LIMIT	35675	6.59	54674	12.90	21293	16.49						
EPA SAMPLE NO												
b1 9-5-201	81744	7.08	116647	13.39	37052	16.98						
b2 9-5-201	72505	7.09	112045	13.39	35646	16.98						
b3 9-5-201	83107	7.09	118115	13.40	39223	16.98						
mb-15137 9	71568	7.09	107650	13.40	36380	16.98						
lcs-15137	73490	7.09	108658	13.40	36204	16.98						
b4 9-5-201	70332	7.09	106671	13.40	34596	16.99						
1409219-00	46303	7.09	66544	13.40	21941	16.99						
1409219-00	45435	7.09	66351	13.40	20752 *	16.98						
1409219-00	38346	7.09	55548	13.40	19200 *	16.98						
1409219-00	34999 *	7.09	50514 *	13.40	17397 *	16.98						
1409219-00	56072	7.09	81406	13.40	27910	16.98						
1409219-00	44066	7.09	65383	13.40	23301	16.99						
1409219-00	47270	7.09	68352	13.40	25365	16.98						
1409219-00	61797	7.09	91819	13.40	38654	16.98						
1409219-00	73211	7.09	111252	13.40	42718	16.98						
b5 9-5-201	68465	7.09	98828	13.40	34882	16.99						

CCV IS within limits compared to CAL. RA 9.9.14

*due to matrix interference QC within are limits and surrogates passing. CG 9.8.14

9/8/2014 7:31 Page 1 of 2 Internal Standard And RT Summary

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
b6 9-5-201	67963	7.09	101027	13.40	34118	16.99						

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

cadg 9-8-14

✓ 9-9-14

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 9/5/2014 Time: 11:09

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/3/2014 9/3/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0914m\090314m 5035 low crv\5ppb 5035 low crv 9-3-20

Lab File ID: c:\agilentws\data\5ppb 5035 ccv1 9-5-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.150	0.100	5.00	4.71	5.8	30.0	PASS	PASS
Chloromethane	12.203	0.100	5.00	4.94	1.2	30.0	PASS	PASS
Vinyl chloride	13.989	0.100	5.00	5.16	-3.2	20.0	PASS	PASS
Chloroethane	2.496	0.100	5.00	5.24	-4.8	30.0	PASS	PASS
Bromomethane	1.218	0.100	5.00	3.34	33.3	30.0	FAIL	PASS
Trichlorofluoromethane	3.235	0.100	5.00	4.62	7.6	30.0	PASS	PASS
1,1-Dichloroethene	7.576	0.100	5.00	4.65	6.9	20.0	PASS	PASS
Acetone	2.508	0.100	10.00	7.69	23.1	40.0	PASS	PASS
Carbon disulfide	6.127	0.100	10.00	10.35	-3.5	40.0	PASS	PASS
Iodomethane	3.966	0.100	10.00	6.16	38.4	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.401	0.100	10.00	10.96	-9.6	30.0	PASS	PASS
Isopropyl ether	36.414	0.100	10.00	11.97	-19.7	40.0	PASS	PASS
tert-Butyl alcohol	1.975	0.100	100.00	209.68	-109.7	40.0	FAIL	PASS
trans-1,2-DCE	14.415	0.100	5.00	4.93	1.4	30.0	PASS	PASS
tert-Butyl ethyl ether	125.127	0.100	10.00	12.07	-20.7	40.0	PASS	PASS
Methylene Chloride	15.771	0.100	5.00	6.72	-34.5	30.0	FAIL	PASS
1,1-Dichloroethane	3.904	0.100	5.00	3.66	26.9	30.0	PASS	PASS
Vinyl acetate	16.173	0.100	10.00	12.93	-29.3	40.0	PASS	PASS
2,2-Dichloropropane	2.329	0.100	5.00	4.07	18.6	30.0	PASS	PASS
2-Butanone	5.988	0.100	10.00	9.10	9.0	40.0	PASS	PASS
1,1,1-Trichloroethane	5.063	0.100	5.00	4.73	5.3	30.0	PASS	PASS
1,1-Dichloropropene	7.728	0.100	5.00	4.75	5.0	30.0	PASS	PASS
tert-Amyl methyl ether	33.740	0.100	10.00	11.40	-14.0	40.0	PASS	PASS
Carbon Tetrachloride	2.490	0.100	5.00	4.88	2.4	30.0	PASS	PASS
cis-1,2-DCE	2.897	0.100	5.00	5.04	-0.8	30.0	PASS	PASS
Benzene	10.095	0.100	5.00	4.91	1.7	30.0	PASS	PASS
Chloroform	5.401	0.100	5.00	4.89	2.2	20.0	PASS	PASS
Bromochloromethane	4.497	0.100	5.00	5.75	-15.0	30.0	PASS	PASS
Trichloroethene (TCE)	16.268	0.100	5.00	4.91	1.8	30.0	PASS	PASS
Dibromofluoromethane	3.367	0.100	20.00	21.62	-8.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	13.253	0.100	20.00	21.59	-8.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	72.456	0.100	5.00	5.38	-7.5	30.0	PASS	PASS
1,2-Dichloropropane	21.466	0.100	5.00	5.25	-4.9	20.0	PASS	PASS
4-Methyl-2-pentanone	4.368	0.100	10.00	9.06	9.4	40.0	PASS	PASS
Toluene-d8	1.780	0.100	20.00	19.57	2.2	30.0	PASS	PASS

9/9/14

Passes <+50% for evaluation

9-8-14

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	9.970	0.100	5.00	4.87	2.6	20.0	PASS	PASS
2-Chloroethyl vinyl ether	5.028	0.100	10.00	8.92	10.8	40.0	PASS	PASS
cis-1,3-dichloropropene	16.263	0.100	5.00	5.04	-0.7	30.0	PASS	PASS
Bromodichloromethane	3.041	0.100	5.00	5.03	-0.5	30.0	PASS	PASS
2-Hexanone	10.443	0.100	10.00	8.54	14.6	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.757	0.100	5.00	4.60	8.1	30.0	PASS	PASS
Dibromomethane	5.569	0.100	5.00	5.27	-5.4	30.0	PASS	PASS
1,3-Dichloropropane	5.827	0.100	5.00	5.09	-1.8	30.0	PASS	PASS
trans-1,3-dichloropropene	3.198	0.100	5.00	5.24	-4.9	30.0	PASS	PASS
Ethylbenzene	11.686	0.100	5.00	4.88	2.3	20.0	PASS	PASS
mp-Xylenes	10.370	0.100	10.00	9.94	0.6	30.0	PASS	PASS
1,1,2-Trichloroethane	6.855	0.100	5.00	5.58	-11.7	30.0	PASS	PASS
Chlorobenzene	5.337	0.300	5.00	4.97	0.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.814	0.100	5.00	4.98	0.4	30.0	PASS	PASS
o-Xylene	10.638	0.100	5.00	4.94	1.2	30.0	PASS	PASS
Dibromochloromethane	1.563	0.100	5.00	5.29	-5.9	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.706	0.100	5.00	5.51	-10.1	30.0	PASS	PASS
Isopropylbenzene	10.895	0.100	5.00	4.94	1.2	30.0	PASS	PASS
Styrene	5.214	0.100	5.00	4.92	1.5	30.0	PASS	PASS
n-Propylbenzene	35.402	0.100	5.00	4.56	8.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	25.897	0.100	5.00	4.67	6.6	30.0	PASS	PASS
tert-Butylbenzene	31.014	0.100	5.00	4.55	9.1	30.0	PASS	PASS
2-Chlorotoluene	9.157	0.100	5.00	4.78	4.5	30.0	PASS	PASS
4-Bromofluorobenzene	2.413	0.100	20.00	18.78	6.1	30.0	PASS	PASS
Bromobenzene	42.005	0.100	5.00	4.83	3.3	30.0	PASS	PASS
4-Chlorotoluene	63.665	0.100	5.00	4.19	16.3	30.0	PASS	PASS
sec-Butylbenzene	38.510	0.100	5.00	4.37	12.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	85.692	0.100	5.00	4.68	6.5	30.0	PASS	PASS
4-Isopropyltoluene	29.110	0.100	5.00	4.72	5.5	30.0	PASS	PASS
Bromoform	9.738	0.100	5.00	4.65	7.0	30.0	PASS	PASS
1,2,3-Trichloropropane	11.835	0.100	5.00	4.46	10.9	30.0	PASS	PASS
n-Butylbenzene	42.423	0.100	5.00	4.34	13.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	36.489	0.300	5.00	4.45	11.0	30.0	PASS	PASS
1,3-Dichlorobenzene	11.669	0.100	5.00	4.72	5.5	30.0	PASS	PASS
1,4-Dichlorobenzene	10.754	0.100	5.00	4.69	6.2	30.0	PASS	PASS
1,2-Dichlorobenzene	11.105	0.100	5.00	4.69	6.1	30.0	PASS	PASS
Hexachlorobutadiene	29.479	0.100	5.00	4.66	6.7	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	8.190	0.100	5.00	4.11	17.8	30.0	PASS	PASS
1,2,4-Trichlorobenzene	27.506	0.100	5.00	4.53	9.5	30.0	PASS	PASS
Naphthalene	7.378	0.100	5.00	3.96	20.8	30.0	PASS	PASS
1,2,3-Trichlorobenzene	22.280	0.100	5.00	4.28	14.3	30.0	PASS	PASS
2-Methylnaphthalene	9.815	0.100	5.00	3.88	22.4	40.0	PASS	PASS
1-Methylnaphthalene	14.263	0.100	5.00	3.96	20.9	40.0	PASS	PASS

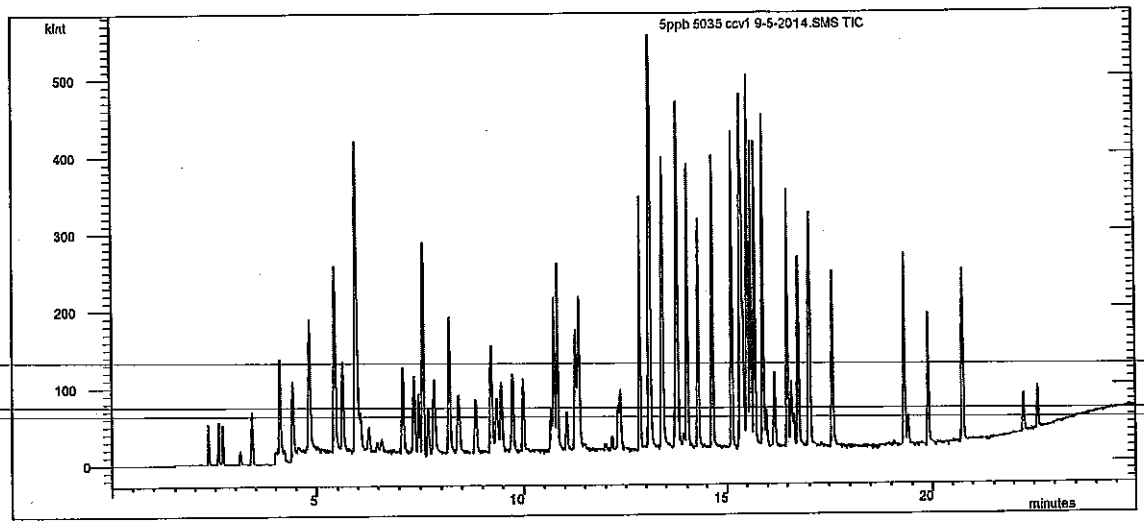
9-9-14

9-8-14

Analyst: cadg

8260B/624 Report

Sample Name:	5ppb 5035 ccv1	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0478	**Acquisition Date:**	9/5/2014 11:09:06 AM
Calculation Date:	9/5/2014 11:34:07 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.092	696	Identified	71350	20.000
Benzene-d5-, chloro-	13.402	1372	Identified	109348	20.000
1,4-Dichlorobenzene-d4	16.985	1751	Identified	42586	20.000
Dichlorodifluoromethane	2.337	183	Identified	38346	4.710
Chloromethane	2.579	209	Identified	217662	4.941
Vinyl chloride	2.689	221	Identified	249526	5.162
Chloroethane	3.116	268	Identified	44516	5.241
Bromomethane	3.120	268	Identified	21732	3.336
Trichlorofluoromethane	3.412	300	Identified	57702	4.620
1,1-Dichloroethene	4.113	376	Identified	135143	4.653
Acetone	4.292	395	Identified	89482	7.685
Carbon disulfide	4.428	410	Identified	218571	10.351
Iodomethane	4.556	423	Identified	141469	6.158
Methyl tert-butyl ether (MTBE)	4.826	452	Identified	264031	10.956
Isopropyl ether	5.433	517	Identified	1.299E6	11.974
tert-Butyl alcohol	5.434	517	Identified	704644	209.679
trans-1,2-DCE	5.625	538	Identified	257124	4.930
tert-Butyl ethyl ether	5.942	572	Identified	4.464E6	12.067
Methylene Chloride	5.976	575	Identified	281314	6.725
1,1-Dichloroethane	6.065	584	Identified	69628	3.657
Vinyl acetate	6.270	606	Failed SPL	576971	12.929
2,2-Dichloropropane	6.479	630	Identified	41540	4.068
2-Butanone	6.584	641	Identified	213634	9.096
1,1,1-Trichloroethane	7.356	725	Identified	90310	4.734

09-8-14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.468	737	Identified	137850	4.749
tert-Amyl methyl ether	7.564	747	Identified	1.204E6	11.397
Carbon Tetrachloride	7.686	760	Identified	44407	4.878
cis-1,2-DCE	7.833	776	Identified	51676	5.038
Benzene	8.198	815	Identified	180075	4.914
Chloroform	8.427	839	Identified	96340	4.891
Bromochloromethane	8.845	885	Identified	80221	5.748
Trichloroethene (TCE)	9.214	925	Identified	290177	4.910
Dibromofluoromethane	9.240	927	Identified	240208	21.621
1,2-Dichloroethane-d4	9.353	939	Identified	945626	21.593
1,2-Dichloroethane (EDC)	9.461	950	Identified	1.292E6	5.376
1,2-Dichloropropane	9.739	980	Identified	382904	5.247
4-Methyl-2-pentanone	9.990	1007	Identified	238827	9.062
Toluene-d8	10.736	1088	Identified	194614	19.566
Toluene	10.819	1096	Identified	272547	4.870
2-Chloroethyl vinyl ether	11.052	1121	Identified	274883	8.923
cis-1,3-dichloropropene	11.267	1144	Identified	444584	5.035
Bromodichloromethane	11.276	1145	Identified	83120	5.025
2-Hexanone	11.325	1150	Identified	570983	8.544
~~Tetrachloroethene (PCE)~~	~~11.358~~	~~1153~~	~~Identified~~	~~75365~~	~~4.595~~
Dibromomethane	11.363	1154	Identified	152244	5.272
1,3-Dichloropropane	12.309	1256	Identified	159300	5.092
trans-1,3-dichloropropene	12.360	1261	Identified	87437	5.244
Ethylbenzene	12.847	1313	Identified	319453	4.884
mp-Xylenes	13.097	1340	Identified	566968	9.939
1,1,2-Trichloroethane	13.088	1339	Identified	187382	5.584
Chlorobenzene	13.424	1374	Identified	145896	4.970
1,2-Dibromoethane (EDB)	13.404	1372	Identified	49591	4.978
o-Xylene	13.768	1411	Identified	290806	4.940
Dibromochloromethane	13.736	1407	Identified	42720	5.295
1,1,1,2-Tetrachloroethane	13.786	1412	Identified	73966	5.506
Isopropylbenzene	14.010	1436	Identified	297837	4.940
Styrene	14.278	1464	Identified	142545	4.924
n-Propylbenzene	14.633	1501	Identified	376913	4.559
1,3,5-Trimethylbenzene	15.113	1553	Identified	275711	4.672
tert-Butylbenzene	15.323	1575	Identified	330194	4.547
2-Chlorotoluene	15.359	1579	Failed SOV	97486	4.776
4-Bromofluorobenzene	15.408	1584	Identified	102756	18.785
Bromobenzene	15.502	1594	Identified	447206	4.835
4-Chlorotoluene	15.521	1596	Identified	677814	4.187
sec-Butylbenzene	15.599	1604	Identified	409997	4.369
1,2,4-Trimethylbenzene	15.690	1613	Identified	912325	4.675
4-Isopropyltoluene	15.888	1634	Identified	309922	4.723
Bromoform	15.966	1642	Identified	103677	4.648
1,2,3-Trichloropropane	16.173	1665	Identified	126008	4.456
n-Butylbenzene	16.502	1700	Identified	451662	4.336
1,1,2,2-Tetrachloroethane	16.596	1710	Identified	388480	4.449
1,3-Dichlorobenzene	16.749	1726	Identified	124240	4.725
1,4-Dichlorobenzene	17.011	1754	Identified	114499	4.692
1,2-Dichlorobenzene	17.591	1815	Identified	118227	4.694

99-8-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.309	2000	Identified	313851	4.663
1,2-Dibromo-3-chloropropane	19.398	2009	Identified	87195	4.112
1,2,4-Trichlorobenzene	19.892	2062	Identified	292846	4.526
Naphthalene	20.745	2153	Identified	78556	3.958
1,2,3-Trichlorobenzene	20.761	2154	Identified	237209	4.285
2-Methylnaphthalene	22.246	2311	Identified	104493	3.880
1-Methylnaphthalene	22.599	2348	Identified	151852	3.957

****
Revision Log
****

9/5/2014 11:34 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

neric SampleList Printout - Tue Sep 09 07:33:35 2014

mpleList: C:\AgilentWS\090814m.smp

eated: Mon Sep 08 07:33:00 2014
dified: Mon Sep 08 18:24:36 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	b3	none
4	mb-15165	none tune @9:47
5	5ppb 5035 ccv	below
	Notes V-54-0478 @10:16	
6	lcs-15165	below
	Notes V-11-8073	
7	b4	none
8	b5	none
9	1409219-008amsd	below
	Notes r1 low level soil pb15137 V-11-8073 N-all	
10	1409275-002a	below
	Notes x1 low level soil pb15165	
11	1409275-002ams	below
	Notes x1 low level soil pb15165 V-11-8073	
12	1409275-002amsd	below
	Notes x1 low level soil pb15165 V-11-8073	
13	1409275-004a	below
	Notes x1 low level soil pb15165	
14	1409275-005a	below
	Notes x1 low level soil pb15165	
15	1409275-006a	below
	Notes x1 low level soil pb15165	
16	1409275-009a	below
	Notes x1 low level soil pb15165	
17	1409275-010a	below
	Notes x1 low level soil pb15165	
18	1409275-011a	below
	Notes x1 low level soil pb15165	
19	1409275-002ams	below
	Notes x1 low level soil pb15165 V-11-8073 V-all @4:58	
20	b6	none
21	b7	none
22		

hand calc

Loaded By: 09.8.14
1st Review By: 09.9.14
QA'd By:

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090814m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): is\data\2014\0914m\090914m\5ppb 5035 ccv 9-8-2014.SMS Lab Sample ID: 5ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 9/8/2014 Time Analyzed: 10:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	73387	7.09	107680	13.40	42761	16.98						
UPPER LIMIT	146774	7.59	215360	13.90	85522	17.48						
LOWER LIMIT	36694	6.59	53840	12.90	21381	16.48						
EPA SAMPLE NO												
b1 9-8-201	86082	7.08	120994	13.39	37908	16.98						
b2 9-8-201	79397	7.09	120064	13.40	39246	16.98						
b3 9-8-201	72661	7.09	107761	13.40	35242	16.98						
mb-15165 9	79040	7.09	111778	13.40	36797	16.98						
lcs-15165	71549	7.09	105530	13.40	35551	16.98						
b4 9-8-201	69035	7.09	101087	13.40	33857	16.98						
b5 9-8-201	71393	7.09	105592	13.40	33229	16.98						
1409219-00	76434	7.09	117827	13.40	44337	16.98						
1409275-00	54027	7.09	75748	13.40	28940	16.98						
1409275-00	80733	7.09	115001	13.40	41822	16.98						
1409275-00	74602	7.09	113006	13.40	40407	16.98						
1409275-00	52278	7.09	80832	13.40	30037	16.99						
1409275-00	47128	7.09	66024	13.40	23460	16.99						
1409275-00	58479	7.09	86674	13.40	28455	16.99						
1409275-00	47224	7.09	72109	13.40	24135	16.99						
1409275-01	43936	7.09	62636	13.40	24310	16.99						

09-9-14

9/9/2014 7:34

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1409275-01	42545	7.09	59794	13.40	22092	16.99						
1409275-00	66097	7.09	103665	13.40	35055	16.98						
b6 9-8-201	71852	7.09	102723	13.40	34390	16.98						
b7 9-8-201	68036	7.09	102387	13.40	34327	16.98						

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

cdg 9.9.14

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 9/8/2014 Time: 10:16

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/3/2014 9/3/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0914m\090314m 5035 low crv\5ppb 5035 low crv 9-3-20

Lab File ID: c:\agilentws\data\5ppb 5035 ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.045	0.100	5.00	4.47	10.6	30.0	PASS	PASS
Chloromethane	11.723	0.100	5.00	4.75	5.0	30.0	PASS	PASS
Vinyl chloride	13.789	0.100	5.00	5.09	-1.8	20.0	PASS	PASS
Chloroethane	2.400	0.100	5.00	5.05	-1.0	30.0	PASS	PASS
Bromomethane	1.264	0.100	5.00	3.42	31.6	30.0	FAIL	PASS
Trichlorofluoromethane	3.317	0.100	5.00	4.74	5.3	30.0	PASS	PASS
1,1-Dichloroethene	7.622	0.100	5.00	4.68	6.4	20.0	PASS	PASS
Acetone	2.095	0.100	10.00	6.47	35.3	40.0	PASS	PASS
Carbon disulfide	6.212	0.100	10.00	10.50	-5.0	40.0	PASS	PASS
Iodomethane	4.474	0.100	10.00	6.80	32.0	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.383	0.100	10.00	10.93	-9.3	30.0	PASS	PASS
Isopropyl ether	35.434	0.100	10.00	11.64	-16.4	40.0	PASS	PASS
tert-Butyl alcohol	0.601	0.100	100.00	62.36	37.6	40.0	PASS	PASS
trans-1,2-DCE	14.242	0.100	5.00	4.87	2.6	30.0	PASS	PASS
tert-Butyl ethyl ether	121.386	0.100	10.00	11.69	-16.9	40.0	PASS	PASS
Methylene Chloride	15.524	0.100	5.00	6.55	-31.1	30.0	FAIL	PASS
1,1-Dichloroethane	4.280	0.100	5.00	3.95	20.9	30.0	PASS	PASS
Vinyl acetate	16.849	0.100	10.00	13.40	-34.0	40.0	PASS	PASS
2,2-Dichloropropane	3.140	0.100	5.00	5.45	-9.0	30.0	PASS	PASS
2-Butanone	5.971	0.100	10.00	9.07	9.3	40.0	PASS	PASS
1,1,1-Trichloroethane	5.349	0.100	5.00	5.00	-0.1	30.0	PASS	PASS
1,1-Dichloropropene	7.859	0.100	5.00	4.83	3.4	30.0	PASS	PASS
tert-Amyl methyl ether	32.639	0.100	10.00	11.02	-10.2	40.0	PASS	PASS
Carbon Tetrachloride	2.549	0.100	5.00	4.99	0.1	30.0	PASS	PASS
cis-1,2-DCE	2.866	0.100	5.00	4.98	0.3	30.0	PASS	PASS
Benzene	10.142	0.100	5.00	4.94	1.3	30.0	PASS	PASS
Chloroform	5.405	0.100	5.00	4.90	2.1	20.0	PASS	PASS
Bromochloromethane	4.788	0.100	5.00	6.14	-22.7	30.0	PASS	PASS
Trichloroethene (TCE)	16.382	0.100	5.00	4.95	1.1	30.0	PASS	PASS
Dibromofluoromethane	3.306	0.100	20.00	21.23	-6.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.341	0.100	20.00	20.11	-0.5	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	71.745	0.100	5.00	5.32	-6.4	30.0	PASS	PASS
1,2-Dichloropropane	21.347	0.100	5.00	5.22	-4.3	20.0	PASS	PASS
4-Methyl-2-pentanone	4.582	0.100	10.00	9.51	4.9	40.0	PASS	PASS
Toluene-d8	1.821	0.100	20.00	20.02	-0.1	30.0	PASS	PASS

Bromomethane crv

not quantifying data

cdg 9.9.14

Analyst: cadg

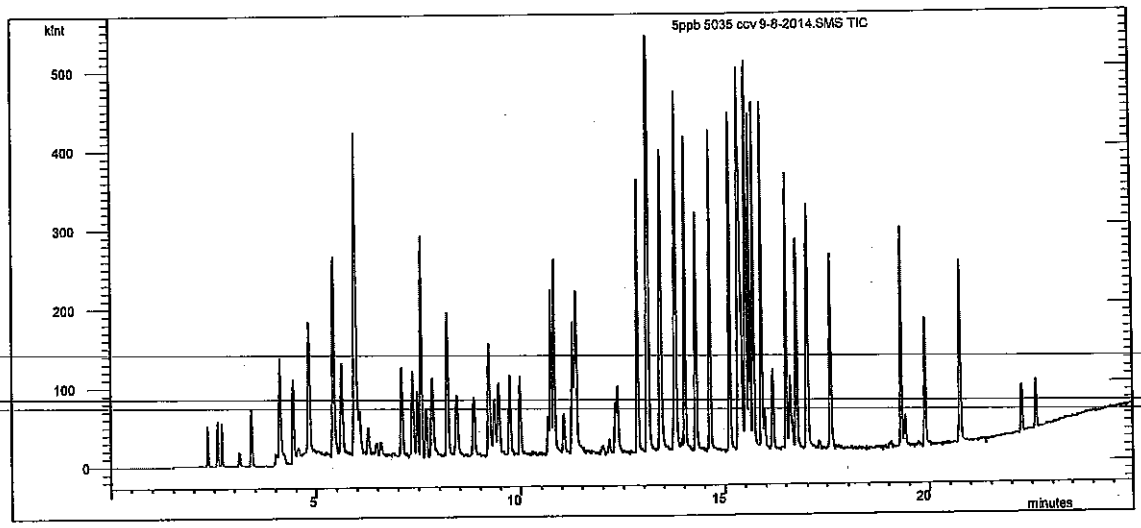
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.468	0.100	5.00	5.12	-2.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	4.975	0.100	10.00	8.83	11.7	40.0	PASS	PASS
cis-1,3-dichloropropene	17.277	0.100	5.00	5.34	-6.9	30.0	PASS	PASS
Bromodichloromethane	3.140	0.100	5.00	5.19	-3.8	30.0	PASS	PASS
2-Hexanone	10.883	0.100	10.00	8.90	11.0	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.855	0.100	5.00	4.76	4.8	30.0	PASS	PASS
Dibromomethane	5.937	0.100	5.00	5.63	-12.5	30.0	PASS	PASS
1,3-Dichloropropane	6.225	0.100	5.00	5.45	-8.9	30.0	PASS	PASS
trans-1,3-dichloropropene	3.473	0.100	5.00	5.68	-13.6	30.0	PASS	PASS
Ethylbenzene	12.089	0.100	5.00	5.06	-1.1	20.0	PASS	PASS
mp-Xylenes	10.637	0.100	10.00	10.20	-2.0	30.0	PASS	PASS
1,1,2-Trichloroethane	7.063	0.100	5.00	5.76	-15.2	30.0	PASS	PASS
Chlorobenzene	5.407	0.300	5.00	5.04	-0.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.870	0.100	5.00	5.13	-2.6	30.0	PASS	PASS
o-Xylene	10.986	0.100	5.00	5.11	-2.1	30.0	PASS	PASS
Dibromochloromethane	1.584	0.100	5.00	5.37	-7.4	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.690	0.100	5.00	5.47	-9.5	30.0	PASS	PASS
Isopropylbenzene	11.182	0.100	5.00	5.07	-1.5	30.0	PASS	PASS
Styrene	5.311	0.100	5.00	5.02	-0.3	30.0	PASS	PASS
n-Propylbenzene	36.927	0.100	5.00	4.76	4.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	26.966	0.100	5.00	4.87	2.6	30.0	PASS	PASS
tert-Butylbenzene	31.653	0.100	5.00	4.64	7.1	30.0	PASS	PASS
2-Chlorotoluene	9.285	0.100	5.00	4.85	3.1	30.0	PASS	PASS
4-Bromofluorobenzene	2.451	0.100	20.00	19.09	4.6	30.0	PASS	PASS
Bromobenzene	43.315	0.100	5.00	4.99	0.2	30.0	PASS	PASS
4-Chlorotoluene	63.653	0.100	5.00	4.19	16.3	30.0	PASS	PASS
sec-Butylbenzene	40.419	0.100	5.00	4.59	8.2	30.0	PASS	PASS
1,2,4-Trimethylbenzene	86.792	0.100	5.00	4.74	5.3	30.0	PASS	PASS
4-Isopropyltoluene	29.264	0.100	5.00	4.75	5.0	30.0	PASS	PASS
Bromoform	10.448	0.100	5.00	4.99	0.2	30.0	PASS	PASS
1,2,3-Trichloropropane	12.134	0.100	5.00	4.57	8.6	30.0	PASS	PASS
n-Butylbenzene	44.472	0.100	5.00	4.54	9.2	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	39.104	0.300	5.00	4.77	4.6	30.0	PASS	PASS
1,3-Dichlorobenzene	12.342	0.100	5.00	5.00	-0.1	30.0	PASS	PASS
1,4-Dichlorobenzene	11.320	0.100	5.00	4.94	1.2	30.0	PASS	PASS
1,2-Dichlorobenzene	11.579	0.100	5.00	4.90	2.1	30.0	PASS	PASS
Hexachlorobutadiene	30.255	0.100	5.00	4.79	4.2	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	8.329	0.100	5.00	4.18	16.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	27.400	0.100	5.00	4.51	9.8	30.0	PASS	PASS
Naphthalene	7.473	0.100	5.00	4.00	20.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	22.919	0.100	5.00	4.40	12.0	30.0	PASS	PASS
2-Methylnaphthalene	11.555	0.100	5.00	4.35	12.9	40.0	PASS	PASS
1-Methylnaphthalene	15.993	0.100	5.00	4.31	13.8	40.0	PASS	PASS

cdg 9.9.14

Analyst: cadg

8260B/624 Report

Sample Name:	5ppb 5035 ccv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0478	**Acquisition Date:**	9/8/2014 10:16:41 AM
Calculation Date:	9/8/2014 10:41:41 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.092	698	Identified	73387	20.000
Benzene-d5-, chloro-	13.399	1378	Identified	107680	20.000
1,4-Dichlorobenzene-d4	16.985	1760	Identified	42761	20.000
Dichlorodifluoromethane	2.337	183	Identified	37525	4.468
Chloromethane	2.579	209	Identified	215080	4.752
Vinyl chloride	2.692	221	Identified	252988	5.091
Chloroethane	3.120	268	Identified	44031	5.052
Bromomethane	3.122	268	Identified	23189	3.422
Trichlorofluoromethane	3.411	300	Identified	60857	4.737
1,1-Dichloroethene	4.114	377	Identified	139833	4.681
Acetone	4.292	396	Identified	76858	6.467
Carbon disulfide	4.429	410	Identified	227951	10.503
Iodomethane	4.555	424	Identified	164172	6.798
Methyl tert-butyl ether (MTBE)	4.826	453	Identified	270910	10.928
Isopropyl ether	5.433	519	Identified	1.300E6	11.638
tert-Butyl alcohol	5.492	525	Identified	220693	62.363
trans-1,2-DCE	5.625	539	Identified	261304	4.870
tert-Butyl ethyl ether	5.943	574	Identified	4.454E6	11.693
Methylene Chloride	5.974	577	Identified	284811	6.555
1,1-Dichloroethane	6.065	587	Identified	78520	3.955
Vinyl acetate	6.270	609	Identified	618265	13.397
2,2-Dichloropropane	6.478	632	Identified	57608	5.448
2-Butanone	6.583	643	Identified	219113	9.070
1,1,1-Trichloroethane	7.355	726	Identified	98136	5.005

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.468	738	Identified	144192	4.830
tert-Amyl methyl ether	7.565	748	Identified	1.198E6	11.019
Carbon Tetrachloride	7.686	761	Identified	46761	4.995
cis-1,2-DCE	7.832	777	Identified	52585	4.984
Benzene	8.200	816	Identified	186070	4.937
Chloroform	8.426	840	Identified	99168	4.895
Bromochloromethane	8.844	886	Identified	87837	6.136
Trichloroethene (TCE)	9.214	926	Identified	300561	4.945
Dibromofluoromethane	9.239	929	Identified	242588	21.229
1,2-Dichloroethane-d4	9.353	941	Identified	905706	20.107
1,2-Dichloroethane (EDC)	9.459	952	Identified	1.316E6	5.322
1,2-Dichloropropane	9.738	982	Identified	391643	5.217
4-Methyl-2-pentanone	9.988	1009	Identified	246689	9.513
Toluene-d8	10.736	1091	Identified	196087	20.019
Toluene	10.820	1100	Identified	281792	5.121
2-Chloroethyl vinyl ether	11.053	1125	Identified	267850	8.832
cis-1,3-dichloropropene	11.266	1148	Identified	465094	5.344
Bromodichloromethane	11.275	1149	Identified	84516	5.190
2-Hexanone	11.324	1154	Identified	585927	8.900
Tetrachloroethene (PCE)	11.358	1157	Identified	76862	4.762
Dibromomethane	11.363	1158	Identified	159832	5.626
1,3-Dichloropropane	12.307	1260	Identified	167588	5.446
trans-1,3-dichloropropene	12.360	1265	Identified	93487	5.679
Ethylbenzene	12.846	1319	Identified	325446	5.056
mp-Xylenes	13.098	1346	Identified	572713	10.201
1,1,2-Trichloroethane	13.090	1345	Identified	190140	5.762
Chlorobenzene	13.423	1380	Identified	145552	5.036
1,2-Dibromoethane (EDB)	13.405	1378	Identified	50350	5.131
o-Xylene	13.769	1417	Identified	295745	5.106
Dibromochloromethane	13.736	1414	Identified	42649	5.369
1,1,1,2-Tetrachloroethane	13.787	1419	Identified	72428	5.474
Isopropylbenzene	14.009	1442	Identified	301024	5.073
Styrene	14.277	1471	Identified	142962	5.015
n-Propylbenzene	14.632	1509	Identified	394756	4.760
1,3,5-Trimethylbenzene	15.112	1561	Identified	288275	4.870
tert-Butylbenzene	15.321	1584	Identified	338383	4.644
2-Chlorotoluene	15.359	1587	Failed	99257	4.845
4-Bromofluorobenzene	15.407	1592	Identified	104826	19.085
Bromobenzene	15.503	1603	Identified	463045	4.991
4-Chlorotoluene	15.520	1604	Identified	680465	4.187
sec-Butylbenzene	15.600	1613	Identified	432091	4.589
1,2,4-Trimethylbenzene	15.690	1622	Identified	927829	4.736
4-Isopropyltoluene	15.887	1643	Identified	312834	4.749
Bromoform	15.965	1651	Identified	111696	4.989
1,2,3-Trichloropropane	16.172	1673	Identified	129719	4.569
n-Butylbenzene	16.501	1709	Identified	475412	4.540
1,1,2,2-Tetrachloroethane	16.596	1719	Identified	418033	4.770
1,3-Dichlorobenzene	16.749	1735	Identified	131940	5.004
1,4-Dichlorobenzene	17.010	1763	Identified	121019	4.940
1,2-Dichlorobenzene	17.592	1825	Identified	123784	4.897

9-9-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.307	2012	Identified	323434	4.790
1,2-Dibromo-3-chloropropane	19.398	2021	Identified	89036	4.179
1,2,4-Trichlorobenzene	19.890	2074	Identified	292912	4.509
Naphthalene	20.744	2167	Identified	79892	3.999
1,2,3-Trichlorobenzene	20.760	2168	Identified	245005	4.399
2-Methylnaphthalene	22.245	2324	Identified	123521	4.354
1-Methylnaphthalene	22.599	2361	Identified	170966	4.309

****
Revision Log
****

9/8/2014 10:41 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

neric SampleList Printout - Thu Sep 04 07:36:23 2014

mpleList: C:\AgilentWS\090314m.smp

eated: Wed Sep 03 08:15:41 2014
dified: Wed Sep 03 20:12:59 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	rt check	below
	Notes V-54-0478	
4	b3	none
5	b4	none
6	b5	none
7	b6	none
8	b7	none kwe @12:32
9		
10	0.4ppb 5035 low crv	below
	Notes V-54-0478	
11	1ppb 5035 low crv	below
	Notes V-54-0478	
12	2ppb 5035 low crv	below
	Notes V-54-0478	
13	3ppb 5035 low crv	below
	Notes V-54-0478	
14	5ppb 5035 low crv	below
	Notes V-54-0478	
15	10ppb 5035 low crv	below
	Notes V-54-0478	
16	20ppb 5035 low crv	below
	Notes V-54-0478	
17	50ppb 5035 low crv	below
	Notes V-54-0478	
18	b8	none
19	100ppb 5035 low crv	below
	Notes V-54-0478	
20	b9	none
21	b10	none
22	5ppb 5035 low icv	below @6'-46
	Notes V-54-0480	
23	b11	none
24	b12	none
25		

Loaded By: 09-3-14
1st Review By: 09-4-14
QA'd By: 9-8-14

rectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090314m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 9-3-14

Calibration Name: 0903Hm 8260-5035Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☐	☐	
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☑	☐	UQL= 5xppb
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UQL= 40 ppb
Isopropyl ether	☐	☐	☑	☐	
tert-Butyl alcohol	☐	☐	☑	☐	UQL= 16ppb
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UQL= 100 ppb
1,1-Dichloroethane	☐	☐	☑	☐	UQL= 500ppb
Methylene Chloride	☐	Low ☑	☑	☐	~~ask [illegible]~~
Vinyl acetate	☐	High ☑	☑	☐	PQL= 40ppb (R+1) on a different instrument
2,2-Dichloropropane	☐	High ☑	☑	☐	UQL= 5 ppb, rx fluto on a different instrument
2-Butanone	☐	☐	☑	☐	PQL= 2ppb
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☑	☐	UQL= 40 ppb
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☑	☐	UQL= 30 ppb
2-Hexanone	☐	☐	☑	☐	PQL= 2 ppb
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: [signature] and [signature]

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	MRL = 20 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☑	☐	MRL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: CG 9-4-14

QA: RA 9-8-14

Additional Comments: PDa updated & verified CG 9-4-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ing\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS Lab Sample ID: 5ppb 5035 low crv

Instrument ID: Mercury Date Analyzed: 9/3/2014 Time Analyzed: 14:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	52652	7.09	74456	13.40	27159	16.99						
UPPER LIMIT	105304	7.59	148912	13.90	54318	17.49						
LOWER LIMIT	26326	6.59	37228	12.90	13580	16.49						
EPA SAMPLE NO												
b7 9-3-201	71382	7.08	99458	13.40	29907	16.98						
0.4ppb 503	62139	7.09	89513	13.40	30671	16.98						
1ppb 5035	61341	7.09	90104	13.40	31887	16.99						
2ppb 5035	65557	7.10	98399	13.40	35150	16.99						
3ppb 5035	57934	7.09	86901	13.40	32406	16.99						
10ppb 5035	61849	7.10	87532	13.40	31607	16.99						
20ppb 5035	66768	7.10	99679	13.40	36421	16.99						
50ppb 5035	64785	7.10	100160	13.40	34898	16.99						
b8 9-3-201	60099	7.10	84835	13.40	29057	16.99						
100ppb 503	55979	7.09	82032	13.40	31122	16.99						
b9 9-3-201	63044	7.09	90962	13.40	32759	16.99						
b10 9-3-20	60522	7.09	87341	13.40	30100	16.99						
5ppb 5035	64075	7.09	88987	13.40	33984	16.98						
b11 9-3-20	61835	7.09	88663	13.40	29821	16.99						
b12 9-3-20	57081	7.09	79492	13.40	28720	16.99						

9-4-14

9-8-14

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 9-3-2014.sms Injection Date: 9/3/2014

Instrument ID: Mercury Injection Time: 12:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	22.7	
75	30-60% of m/z 95	50.0	
95	base peak	100.0	
96	5-9% of m/z 95	7.7	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	63.6	
175	5-9% of m/z 174	4.7 (7.4)	174
176	>95% but <101% of m/z 174	63.0 (99.1)	174
177	5-9% of m/z 176	4.4 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 9-3-201	b7	c:\agilentws\data\pending\090414m 5035 low crv\b7 9-3-2014.SMS	9/3/2014 12:32
3 0.4ppb 503	0.4ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\0.4ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:01
4 1ppb 5035	1ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\1ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:30
5 2ppb 5035	2ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\2ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:59
6 3ppb 5035	3ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\3ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:27
7 5ppb 5035	5ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:56
8 10ppb 5035	10ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\10ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:25
9 20ppb 5035	20ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\20ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:54
10 50ppb 5035	50ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\50ppb 5035 low crv 9-3-2014.SMS	9/3/2014 16:23
11 b8 9-3-201	b8	c:\agilentws\data\pending\090414m 5035 low crv\b8 9-3-2014.SMS	9/3/2014 16:51
12 100ppb 503	100ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\100ppb 5035 low crv 9-3-2014.SMS	9/3/2014 17:20
13 b9 9-3-201	b9	c:\agilentws\data\pending\090414m 5035 low crv\b9 9-3-2014.SMS	9/3/2014 17:49

Analyst: cadg

JRA 9-8-14

cag-11-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b10 9-3-20	b10	c:\agilentws\data\pending\090414m 5035 low crv\b10 9-3-2014.SMS	9/3/2014 18:18
15 5ppb 5035	5ppb 5035 low icv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low icv 9-3-2014.SMS	9/3/2014 18:46
16 b11 9-3-20	b11	c:\agilentws\data\pending\090414m 5035 low crv\b11 9-3-2014.SMS	9/3/2014 19:15
17 b12 9-3-20	b12	c:\agilentws\data\pending\090414m 5035 low crv\b12 9-3-2014.SMS	9/3/2014 19:44

9-8-14 cg 9-4-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 9/3/2014 9/3/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 17:20 17:20

GC Column: DB-VRX ID: 250 (mm)

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	2.792	2.704	2.555	2.519	2.693	2.373	2.329	2.124	0.9996	2.467	10.1	PASS	PASS
2.115													
Chloromethane	10.581	9.350	10.983	11.330	12.473	12.799	12.870	12.474	0.9999	11.739	10.6	PASS	PASS
12.790													
Vinyl chloride	8.784	10.310	12.330	14.414	14.507	14.357	14.174	12.969	0.9995	12.808	15.8	PASS	PASS
13.422													
Chloroethane	1.580	1.482	1.528	1.833	2.191	2.680	2.666	2.571	0.9992	2.112	24.1	PASS	PASS
2.476													

Analyst: cadg

9-8-14

9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Bromomethane	3.244	1.671	1.341	1.594	1.638	2.063	3.343	4.522	0.9986	2.427	47.0	PASS	PASS
Trichlorofluoromethane 3.599	3.436	3.374	3.438	3.516	3.856	3.335	3.434	3.370	0.9990	3.484	4.6	PASS	PASS
1,1-Dichloroethene 8.370	7.892	8.133	8.126	8.295	8.575	7.792	7.996	7.821	0.9990	8.111	3.3	PASS	PASS
Acetone 3.609	4.906	2.902	2.773	2.716	2.357	2.415	3.132	3.350	0.9981	3.129	25.0	PASS	PASS
Carbon disulfide 5.314	7.278	6.584	6.441	6.603	6.905	6.440	6.333	5.836	0.9973	6.415	8.9	PASS	PASS
Iodomethane	4.126	3.107	3.395	4.237	4.568	5.824	7.922	8.519	0.9966	5.212	39.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.370	7.269	7.540	7.605	7.326	6.665	6.391		0.9986	7.167	6.4	PASS	PASS
Isopropyl ether 27.063	31.322	34.552	35.665	35.788	34.851	34.051	34.769	30.072	0.9956	33.126	9.0	PASS	PASS
tert-Butyl alcohol	1.137	1.106	0.974	0.932	0.965				0.9983	1.023	9.0	PASS	PASS
trans-1,2-DCE 14.335	15.093	15.157	15.310	15.467	15.835	14.910	14.981	14.039	0.9998	15.014	3.7	PASS	PASS
tert-Butyl ethyl ether	113.924	118.465	122.392	118.860	114.053	111.098	113.526	92.034	0.9918	113.044	8.2	PASS	PASS
Methylene Chloride 7.484					12.985	10.172	9.155	7.974	0.9996	9.554	22.9	PASS	PASS
1,1-Dichloroethane	2.610	2.738	3.206	3.449	4.137	4.728	5.861	6.870	0.9954	4.200	36.4	PASS	PASS

Analyst: cadg

9-8-14

9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate			9.612	9.550	10.646	12.523	14.786	14.837	0.9985	12.273	19.1	PASS	PASS
13.959													
2,2-Dichloropropane	2.997	2.729	2.665	2.637	2.958				0.9939	2.797	6.0	PASS	PASS
2-Butanone		5.614	7.554	6.215	7.262	6.488	6.690	6.468	0.9999	6.599	9.1	PASS	PASS
6.505													
1,1,1-Trichloroethane	5.722	5.312	5.433	5.435	5.929	5.230	5.423	5.341	0.9998	5.448	4.3	PASS	PASS
5.212													
1,1-Dichloropropene	8.233	8.360	8.155	8.277	8.580	7.854	8.265	8.042	1.0000	8.206	2.5	PASS	PASS
8.087													
tert-Amyl methyl ether	29.899	31.213	31.645	32.207	31.095	30.633	31.551	27.752	0.9972	30.749	4.5	PASS	PASS
Carbon Tetrachloride	2.485	2.511	2.474	2.643	2.825	2.515	2.635	2.558	0.9998	2.572	4.4	PASS	PASS
2.502													
cis-1,2-DCE	2.756	2.841	2.917	2.917	2.994	2.813	2.967	2.830	0.9999	2.879	2.7	PASS	PASS
2.875													
Benzene	10.466	10.463	10.372	10.679	10.993	10.206	10.459	9.994	0.9999	10.424	2.8	PASS	PASS
10.185													
Chloroform	5.007	5.042	5.459	5.312	5.544	5.470	5.794	5.497	0.9999	5.414	4.7	PASS	PASS
5.597													
Bromochloromethane	4.687	4.752	4.845	4.534	4.340	3.897	3.954	3.800	0.9995	4.272	10.7	PASS	PASS
3.641													
Trichloroethene (TCE)	17.850	16.797	16.874	17.052	18.019	16.205	16.737	16.185	0.9999	16.896	3.9	PASS	PASS
16.345													
Dibromofluoromethane	3.021	2.934	3.190	3.135	3.185	3.137	3.227	3.125	0.9924	3.114	2.9	PASS	PASS
3.074													

Analyst: cadg

9-8-14

cg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,2-Dichloroethane-d4	12.853	12.438	12.827	12.826	12.963	11.803	11.935	11.613	0.9761	12.276	5.2	PASS	PASS
11.225													
1,2-Dichloroethane (EDC)	66.785	69.782	71.229	71.860	70.983	68.896	71.975	68.359	0.9987	69.309	3.8	PASS	PASS
63.907													
1,2-Dichloropropane	22.334	21.052	22.279	22.708	21.294	20.544	21.452	20.131	0.9996	21.264	5.0	PASS	PASS
19.585													
4-Methyl-2-pentanone	4.355	4.731	4.500	4.758	5.374	4.912	4.753	4.678	0.9999	4.758	5.9	PASS	PASS
4.761													
Toluene-d8	1.888	1.803	1.784	1.799	1.903	1.841	1.771	1.764	0.9935	1.819	2.7	PASS	PASS
1.821													
Toluene	11.587	10.924	10.763	10.644	11.676	10.756	10.314	9.528	0.9993	10.686	6.5	PASS	PASS
9.984													
2-Chloroethyl vinyl ether	4.512	5.295	4.668	5.460	5.481	5.721	5.881		0.9996	5.288	9.7	PASS	PASS
cis-1,3-dichloropropene	14.297	13.672	14.918	15.146	16.310	16.872	17.153	16.559	0.9997	15.677	7.7	PASS	PASS
16.169													
Bromodichloromethane	3.156	2.878	2.951	3.108	3.210	3.230	3.228	2.943	0.9996	3.073	4.6	PASS	PASS
2.953													
2-Hexanone		12.377	11.269	12.314	13.403	11.837	11.940	11.779	0.9988	12.201	5.3	PASS	PASS
12.687													
Tetrachloroethene (PCE)	3.288	3.128	2.964	3.025	3.318	2.951	2.986	2.851	0.9994	3.057	5.1	PASS	PASS
3.002													
Dibromomethane	5.580	5.685	5.464	5.737	5.631	5.560	4.923		0.9957	5.511	5.0	PASS	PASS
1,3-Dichloropropane	5.604	5.072	6.118	6.096	6.490	6.178	6.152	5.662	0.9992	5.868	7.6	PASS	PASS
5.441													

Analyst: cadg

9-8-14

cg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.164	2.261	2.705	2.804	3.025	3.270	3.385	3.274	0.9980	2.878	15.2	PASS	PASS
3.017													
Ethylbenzene	13.293	12.615	12.289	12.288	13.721	12.055	11.893	11.304	0.9995	12.363	6.1	PASS	PASS
11.806													
mp-Xylenes	11.863	10.945	10.688	10.714	11.686	10.687	10.389	9.668	0.9988	10.781	6.2	PASS	PASS
10.394													
1,1,2-Trichloroethane	6.801	6.904	7.218	6.990	7.183	6.945	6.697	5.977	0.9974	6.692	8.6	PASS	PASS
5.509													
Chlorobenzene	5.797	5.374	5.374	5.380	5.786	5.419	5.520	5.234	0.9999	5.464	3.7	PASS	PASS
5.292													
1,2-Dibromoethane (EDB)	1.633	1.716	1.780	1.777	1.876	1.859	1.816		0.9997	1.779	4.7	PASS	PASS
o-Xylene	11.579	11.077	11.260	11.397	11.933	11.254	10.902	10.136	0.9995	11.124	4.8	PASS	PASS
10.581													
Dibromochloromethane	1.541	1.527	1.557	1.596	1.584	1.563	1.550	1.436	0.9997	1.530	4.1	PASS	PASS
1.416													
1,1,1,2-Tetrachloroethane	2.564	2.611	2.567	2.633	2.738	2.585	2.636	2.436	0.9990	2.565	4.8	PASS	PASS
2.314													
Isopropylbenzene	11.898	11.747	11.112	11.458	12.598	11.378	11.057	10.218	0.9988	11.381	5.9	PASS	PASS
10.960													
Styrene	5.086	5.081	5.244	5.509	5.616	5.324	5.391	5.012	0.9989	5.295	3.9	PASS	PASS
5.395													
n-Propylbenzene	41.896	41.911	39.761	39.083	44.262	39.414	38.748	37.338	0.9999	40.032	5.6	PASS	PASS
37.879													
1,3,5-Trimethylbenzene	31.400	29.452	28.656	27.992	31.376	28.943	27.065	26.463	0.9998	28.714	6.3	PASS	PASS
27.079													

Analyst: cadg

9-8-14

cag 9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
tert-Butylbenzene 32.671	37.345	38.501	35.839	35.386	39.030	35.194	33.232	33.114	0.9999	35.590	6.6	PASS	PASS
2-Chlorotoluene 8.976	10.874	10.965	9.984	9.938	10.831	10.011	9.785	9.446	0.9993	10.090	6.8	PASS	PASS
4-Bromofluorobenzene 2.539	2.682	2.648	2.547	2.412	2.535	2.586	2.538	2.633	0.9914	2.569	3.1	PASS	PASS
Bromobenzene	51.961	48.246	46.930	44.776	48.054	45.185	44.475	40.231	0.9982	46.232	7.4	PASS	PASS
4-Chlorotoluene 81.002	70.489	69.756	68.776	68.910	75.716	71.147	73.168	77.117	0.9993	72.898	5.8	PASS	PASS
sec-Butylbenzene 43.759	44.162	46.326	43.680	45.252	50.204	44.118	42.860	42.743	0.9998	44.789	5.2	PASS	PASS
1,2,4-Trimethylbenzene 90.546	91.514	95.289	89.884	93.837	104.343	94.689	90.043	89.158	0.9999	93.256	5.1	PASS	PASS
4-Isopropyltoluene 29.707	29.169	32.627	31.282	31.073	36.941	32.230	31.068	30.375	0.9998	31.608	7.2	PASS	PASS
Bromoform 10.024	10.683	10.739	10.536	9.830	10.927	10.717	10.980	10.876	0.9984	10.590	3.8	PASS	PASS
1,2,3-Trichloropropane 13.131	14.006	13.190	13.218	12.596	14.218	13.575	13.229	13.258	1.0000	13.380	3.6	PASS	PASS
n-Butylbenzene 49.553	34.071	43.146	44.814	47.840	57.336	50.678	49.828	50.032	0.9999	47.478	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane 39.717	41.646	39.732	41.087	40.367	44.586	42.303	41.781	41.744	0.9994	41.440	3.6	PASS	PASS
1,3-Dichlorobenzene 11.734	13.158	13.226	12.806	12.553	13.874	12.935	12.403	12.359	0.9994	12.783	4.8	PASS	PASS

9-8-14

Analyst: cadg

9-8-14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,4-Dichlorobenzene 11.101	10.744	11.155	11.211	11.061	13.265	11.712	11.686	11.778	0.9992	11.524	6.4	PASS	PASS
1,2-Dichlorobenzene 11.444	11.602	12.356	12.004	11.630	13.114	12.205	12.457	11.682	0.9997	12.055	4.4	PASS	PASS
Hexachlorobutadiene 31.049	34.181	35.944	31.909	33.374	37.539	32.617	30.456	29.395	0.9992	32.940	8.0	PASS	PASS
1,2-Dibromo-3-chloropropane 10.244	8.613	9.082	8.767	9.164	10.962	10.089	9.958	10.162	0.9999	9.671	8.2	PASS	PASS
1,2,4-Trichlorobenzene 32.619	16.353	18.662	22.700	25.676	32.043	30.610	33.015	32.724	0.9999	27.156	24.1	PASS	PASS
Naphthalene 13.258	4.703	5.487	6.444	7.544	9.833	9.953	11.492	12.139	0.9999	8.984	34.1	PASS	PASS
1,2,3-Trichlorobenzene 27.200	14.075	15.820	18.594	22.079	28.857	27.237	29.682	28.426	0.9992	23.552	25.7	PASS	PASS
2-Methylnaphthalene 20.642	3.928	5.421	7.663	9.159	12.972	14.218	17.446	19.283	0.9998	12.304	49.6	PASS	PASS
1-Methylnaphthalene 27.857	6.669	8.399	11.513	12.735	17.945	20.537	23.724	25.864	0.9999	17.249	45.1	PASS	PASS
									Average %RSD		10.2		

9-9-14

cdg 9.8.14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 lo **Acquisition Date:** 9/3/2014 18:46

Comment: V-54-0480

SampleID: 5ppb 5035 low icv **Analyst:** Rene Aguilera

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Cal. Sample Dates: First: 9/3/2014 17:20 **Last:** 9/3/2014 17:20

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	6.12	ppb	5.00	122 %	70 - 130	PASS
2)	Chloromethane	5.14	ppb	5.00	103 %	70 - 130	PASS
3)	Vinyl chloride	5.53	ppb	5.00	111 %	80 - 120	PASS
4)	Chloroethane	5.16	ppb	5.00	103 %	70 - 130	PASS
5)	Bromomethane	5.92	ppb	5.00	118 %	70 - 130	PASS
6)	Trichlorofluoromethane	4.49	ppb	5.00	90 %	70 - 130	PASS
7)	1,1-Dichloroethene	4.65	ppb	5.00	93 %	80 - 140	PASS
8)	Acetone	9.02	ppb	10.00	90 %	60 - 140	PASS
9)	Carbon disulfide	11.64	ppb	10.00	116 %	60 - 140	PASS
10)	Iodomethane	6.79	ppb	10.00	68 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	10.77	ppb	10.00	108 %	70 - 130	PASS
12)	Isopropyl ether	11.56	ppb	10.00	116 %	60 - 140	PASS
13)	tert-Butyl alcohol	95.41	ppb	100.00	95 %	60 - 140	PASS
14)	trans-1,2-DCE	4.94	ppb	5.00	99 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	11.13	ppb	10.00	111 %	60 - 140	PASS
16)	Methylene Chloride	2.75	ppb	5.00	55 %	70 - 130	FAIL
17)	1,1-Dichloroethane	3.53	ppb	5.00	71 %	70 - 130	PASS
18)	Vinyl acetate	16.68	ppb	10.00	167 %	60 - 140	FAIL
19)	2,2-Dichloropropane	6.59	ppb	5.00	132 %	70 - 130	FAIL
20)	2-Butanone	11.47	ppb	10.00	115 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	5.05	ppb	5.00	101 %	70 - 130	PASS
23)	1,1-Dichloropropene	4.78	ppb	5.00	96 %	70 - 130	PASS
24)	tert-Amyl methyl ether	10.77	ppb	10.00	108 %	60 - 140	PASS
25)	Carbon Tetrachloride	5.02	ppb	5.00	100 %	70 - 130	PASS
26)	cis-1,2-DCE	4.84	ppb	5.00	97 %	70 - 130	PASS
27)	Benzene	4.93	ppb	5.00	99 %	70 - 130	PASS
28)	Chloroform	4.82	ppb	5.00	96 %	80 - 120	PASS
29)	Bromochloromethane	5.39	ppb	5.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	5.06	ppb	5.00	101 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	5.00	ppb	5.00	100 %	70 - 130	PASS
34)	1,2-Dichloropropane	5.13	ppb	5.00	103 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	11.32	ppb	10.00	113 %	60 - 140	PASS
37)	Toluene	5.39	ppb	5.00	108 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	10.78	ppb	10.00	108 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	4.50	ppb	5.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	5.38	ppb	5.00	108 %	70 - 130	PASS
41)	2-Hexanone	11.41	ppb	10.00	114 %	60 - 140	PASS

RA 9-9-14
Passes PAL evaluation
~~not acceptable~~ data
reruns on a different instrument
cadg 9-4-14
RA 9-8-14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	5.39	ppb	5.00	108 %	70 - 130	PASS
43)	Dibromomethane	5.34	ppb	5.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	5.42	ppb	5.00	108 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	4.82	ppb	5.00	96 %	70 - 130	PASS
46)	Ethylbenzene	5.47	ppb	5.00	109 %	80 - 120	PASS
47)	mp-Xylenes	10.73	ppb	10.00	107 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	5.83	ppb	5.00	117 %	70 - 130	PASS
50)	Chlorobenzene	5.22	ppb	5.00	104 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	4.82	ppb	5.00	96 %	70 - 130	PASS
52)	o-Xylene	5.44	ppb	5.00	109 %	70 - 130	PASS
53)	Dibromochloromethane	5.63	ppb	5.00	113 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	5.50	ppb	5.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	5.45	ppb	5.00	109 %	70 - 130	PASS
56)	Styrene	5.28	ppb	5.00	106 %	70 - 130	PASS
57)	n-Propylbenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	5.07	ppb	5.00	101 %	70 - 130	PASS
59)	tert-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
60)	2-Chlorotoluene	5.17	ppb	5.00	103 %	70 - 130	PASS
62)	Bromobenzene	5.13	ppb	5.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	4.57	ppb	5.00	91 %	70 - 130	PASS
64)	sec-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	5.02	ppb	5.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	5.45	ppb	5.00	109 %	70 - 130	PASS
67)	Bromoform	4.93	ppb	5.00	99 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	5.10	ppb	5.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	4.97	ppb	5.00	99 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	5.15	ppb	5.00	103 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	5.01	ppb	5.00	100 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	4.95	ppb	5.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	5.28	ppb	5.00	106 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	4.96	ppb	5.00	99 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	4.69	ppb	5.00	94 %	70 - 130	PASS
78)	Naphthalene	4.55	ppb	5.00	91 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	4.75	ppb	5.00	95 %	70 - 130	PASS
80)	2-Methylnaphthalene	5.93	ppb	5.00	119 %	60 - 140	PASS
81)	1-Methylnaphthalene	5.61	ppb	5.00	112 %	60 - 140	PASS

* indicates Internal Standard.

9-4-14

9-8-14

Analyst: cadg

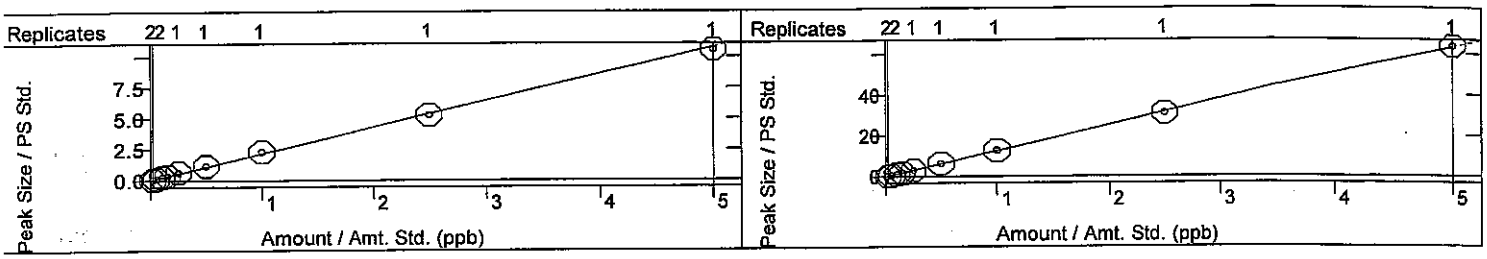
Calibration Curves Report

J#9-8-14 cg9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

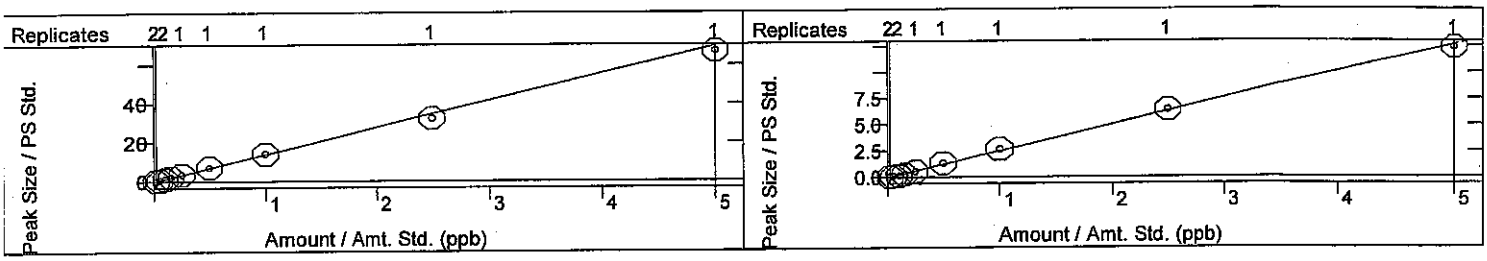
Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.06%, Coeff. Det.(r2): 0.999617
y = +2.1559x +0.0297

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.59%, Coeff. Det.(r2): 0.999858
y = +12.7330x -0.0949



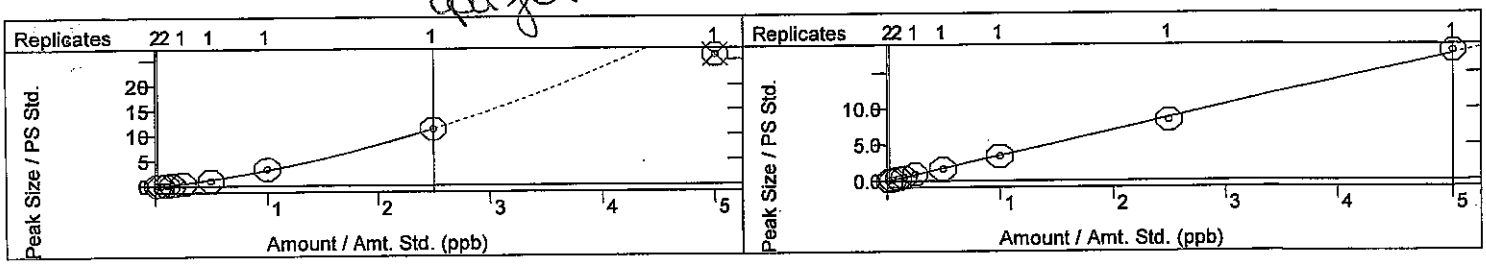
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.999489
y = +13.9854x -0.1125

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.13%, Coeff. Det.(r2): 0.999213
y = +2.5349x -0.0404



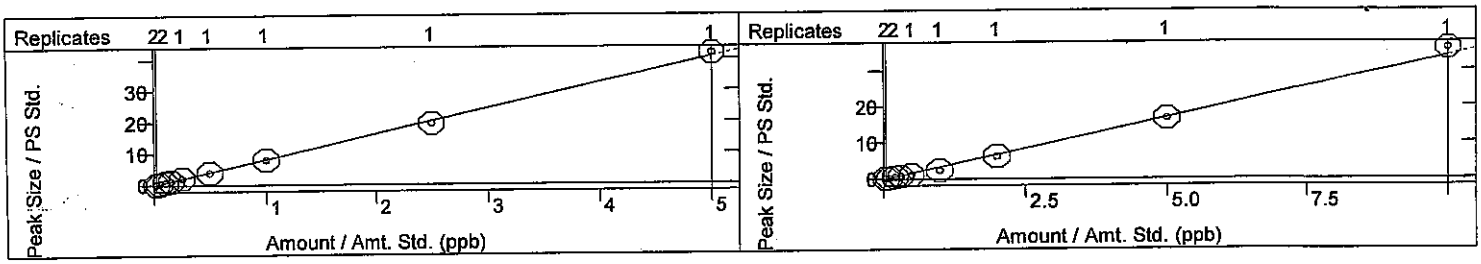
Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 46.96%, Coeff. Det.(r2): 0.998591
y = +0.8862x2 +2.3605x -0.1138

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.999047
y = +3.5126x -0.0027



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.273%, Coeff. Det.(r2): 0.999021
y = +8.1613x -0.0048

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.99%, Coeff. Det.(r2): 0.998084
y = +3.3969x -0.0512

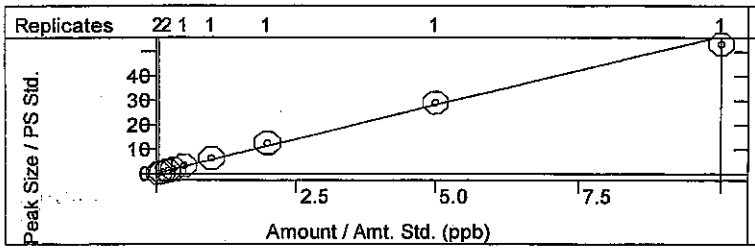


Calibration Curves Report

JM 9.8.14 cg 9-4-14

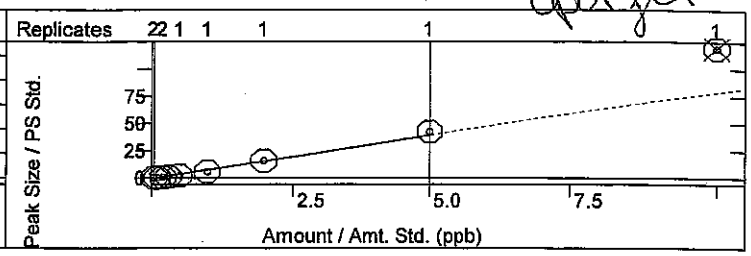
Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.895%, Coeff. Det.(r2): 0.997307
y = +5.6292x +0.1500



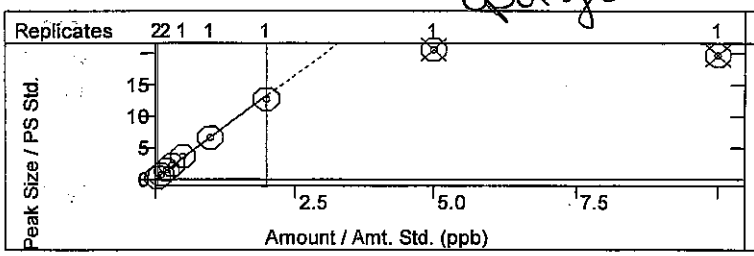
Iodomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 39.00%, Coeff. Det.(r2): 0.996600
y = +7.9543x -0.4664

cpd fit

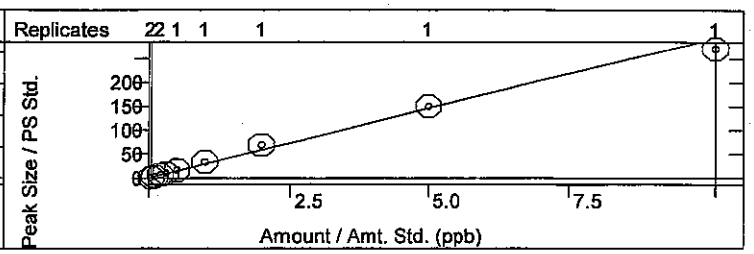


Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.403%, Coeff. Det.(r2): 0.998556
y = +6.6011x +0.0845

cpd fit

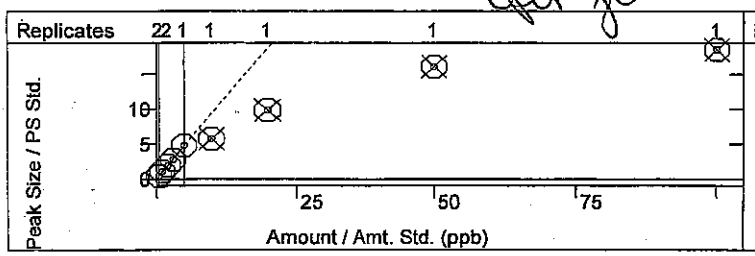


Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.021%, Coeff. Det.(r2): 0.995610
y = +29.1397x +0.7611

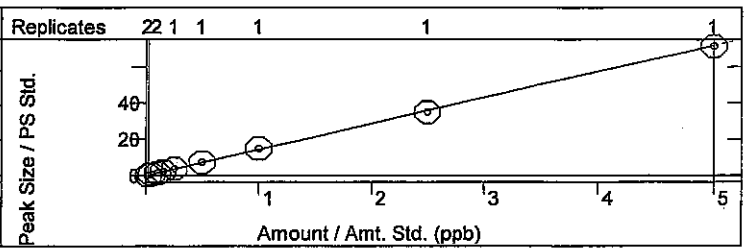


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.017%, Coeff. Det.(r2): 0.998254
y = +0.9325x +0.0995

cpd fit

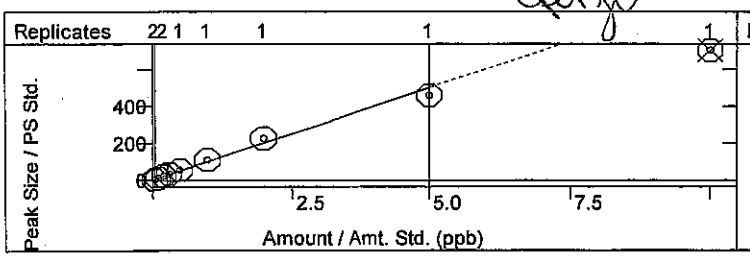


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.662%, Coeff. Det.(r2): 0.999784
y = +14.3704x +0.0615



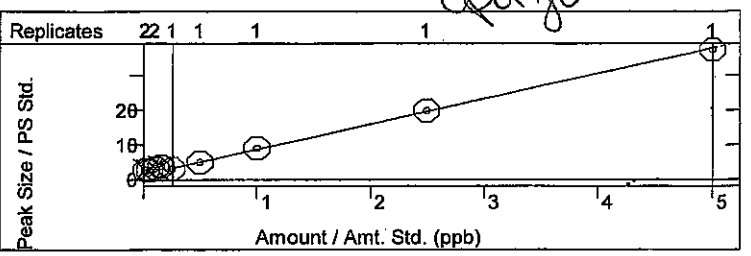
tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.175%, Coeff. Det.(r2): 0.991835
y = +100.0174x +2.2157

cpd fit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 22.87%, Coeff. Det.(r2): 0.999634
y = +7.2833x +1.4939

cpd fit



Calibration Curves Report

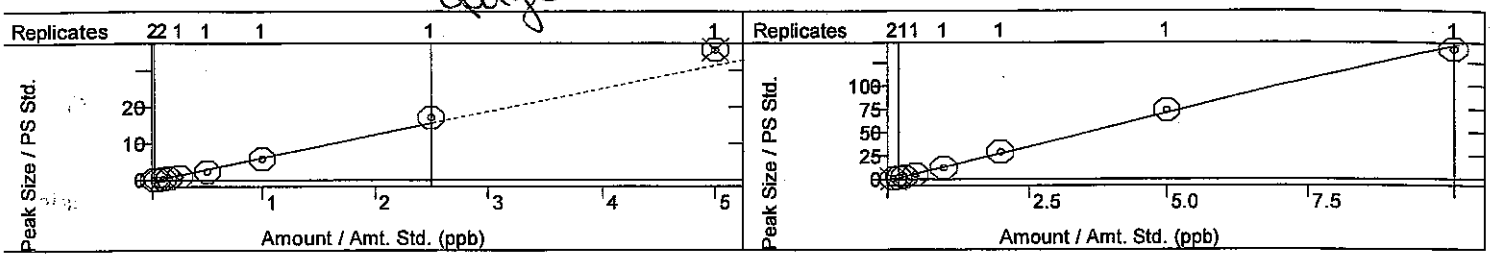
JLH 9.8.14 cgg-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 36.43%, Coeff. Det.(r2): 0.995416
y = +6.3254x -0.1808

Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.09%, Coeff. Det.(r2): 0.998496
y = +14.4646x -1.2642

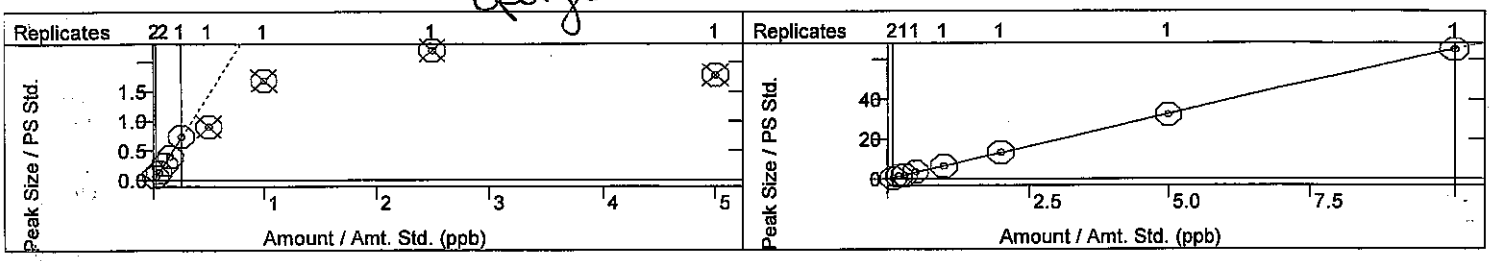
cgg ljt



2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.022%, Coeff. Det.(r2): 0.993891
y = +2.9379x -0.0153

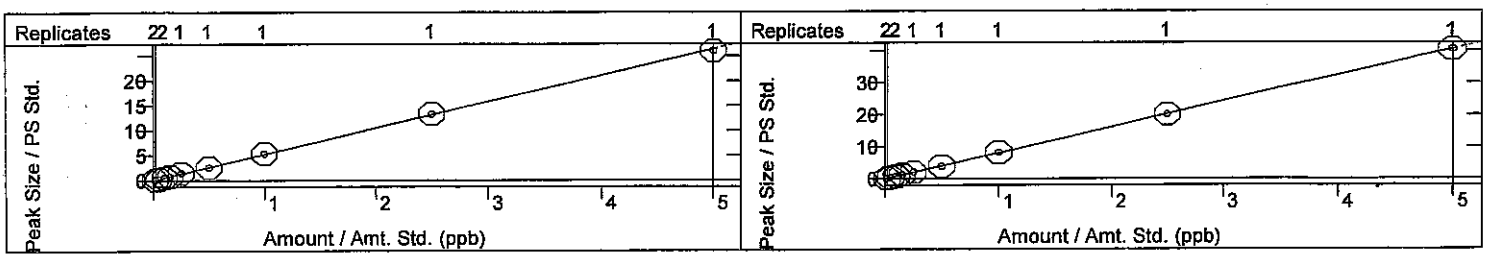
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.088%, Coeff. Det.(r2): 0.999913
y = +6.5236x +0.0274

cgg ljt



1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.309%, Coeff. Det.(r2): 0.999819
y = +5.2795x +0.0161

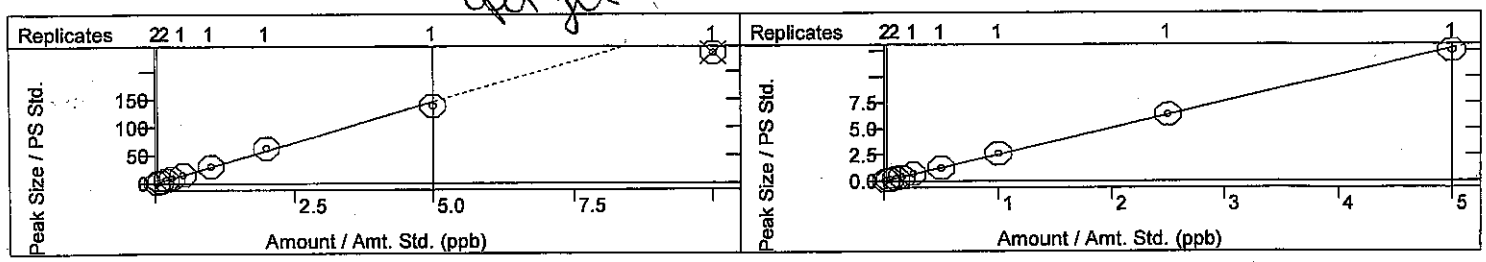
1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.513%, Coeff. Det.(r2): 0.999952
y = +8.0895x +0.0111



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.537%, Coeff. Det.(r2): 0.997173
y = +29.1170x +0.2776

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.398%, Coeff. Det.(r2): 0.999800
y = +2.5384x +0.0032

cgg ljt



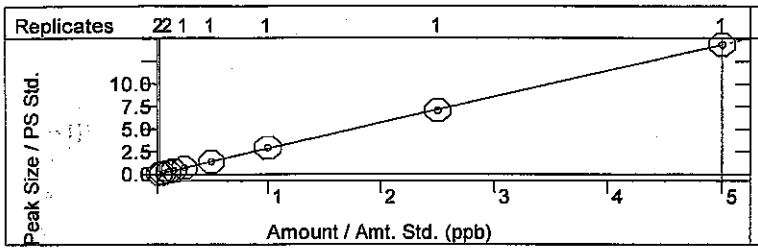
Calibration Curves Report

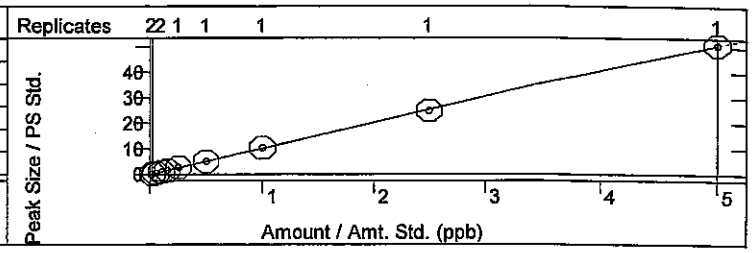
9-8-14 CG 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.672%, Coeff. Det.(r2): 0.999882
y = +2.8729x +5.7204e-4

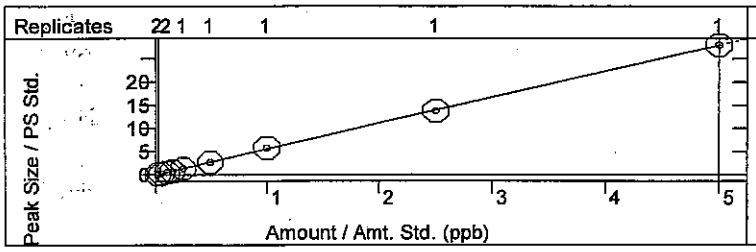
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.809%, Coeff. Det.(r2): 0.999867
y = +10.1754x +0.0237

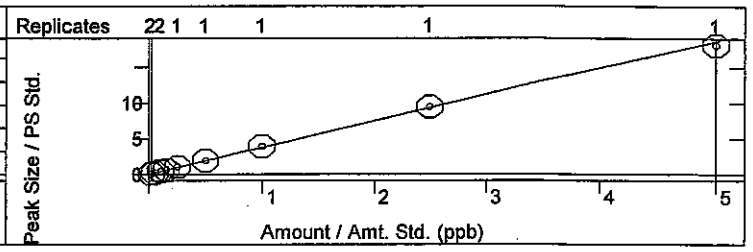




Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.715%, Coeff. Det.(r2): 0.999856
y = +5.5895x -0.0168

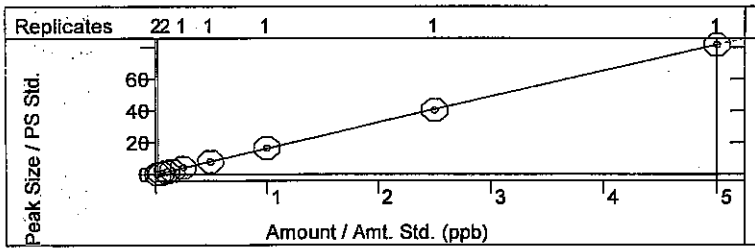
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.68%, Coeff. Det.(r2): 0.999537
y = +3.7332x +0.0515

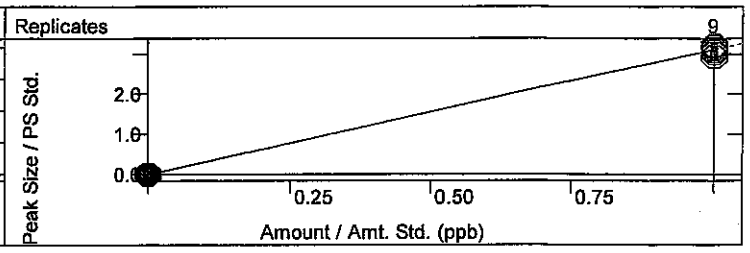




Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.925%, Coeff. Det.(r2): 0.999929
y = +16.3543x +0.0517

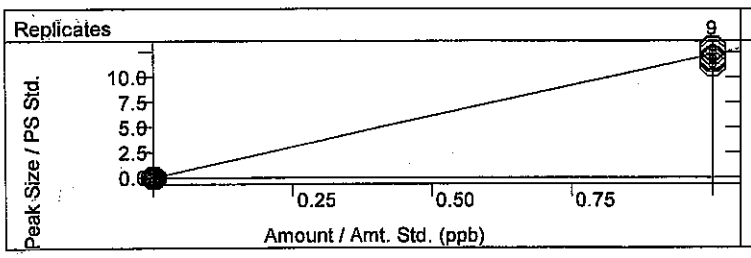
Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.943%, Coeff. Det.(r2): 0.992359
y = +3.1142x

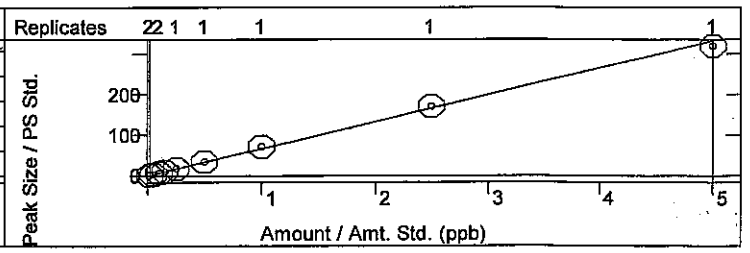




1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.250%, Coeff. Det.(r2): 0.976088
y = +12.2758x

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.850%, Coeff. Det.(r2): 0.998690
y = +66.3291x +0.2845



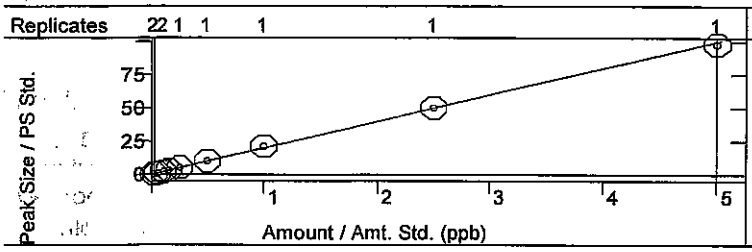


Calibration Curves Report

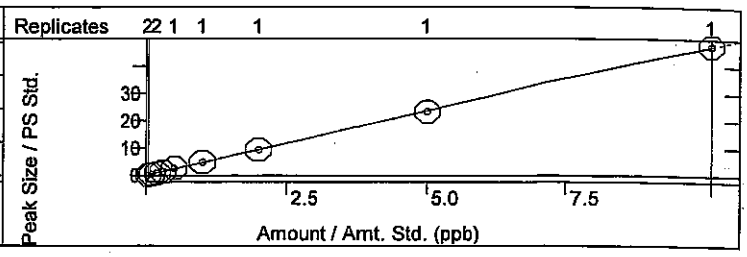
9-8-14 cgg 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

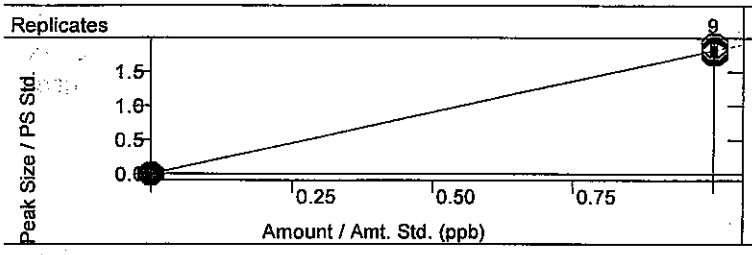
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.977%, Coeff. Det.(r2): 0.999621
y = +19.9939x +0.1213



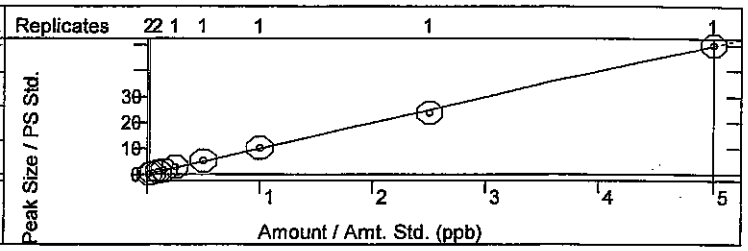
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.941%, Coeff. Det.(r2): 0.999871
y = +4.7424x +0.0354



Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.710%, Coeff. Det.(r2): 0.993517
y = +1.8193x

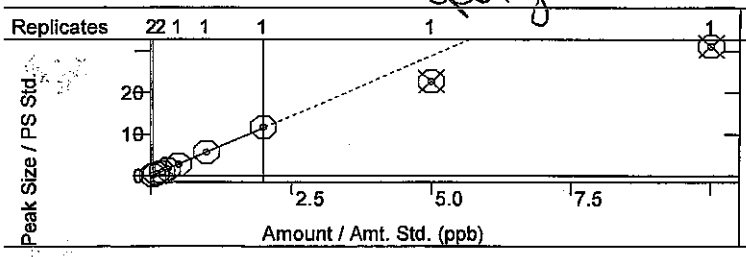


Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.479%, Coeff. Det.(r2): 0.999324
y = +9.9440x +0.0709

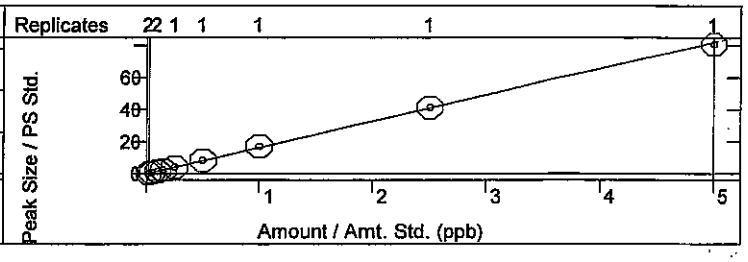


2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.742%, Coeff. Det.(r2): 0.999630
y = +5.8091x -0.0778

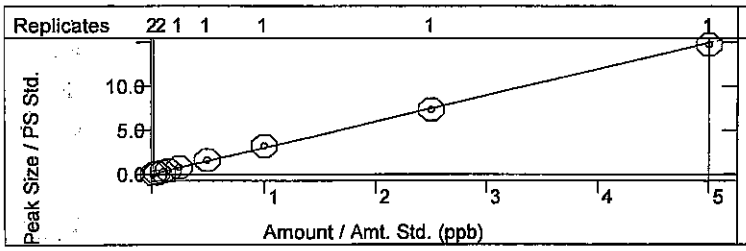
cgg fit



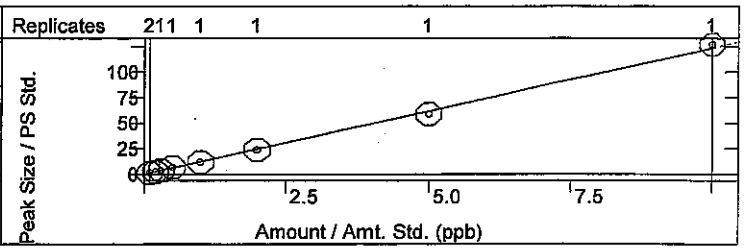
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.750%, Coeff. Det.(r2): 0.999731
y = +16.4363x -0.0725



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.597%, Coeff. Det.(r2): 0.999625
y = +2.9960x +0.0073



2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.341%, Coeff. Det.(r2): 0.998761
y = +12.3449x -0.0521

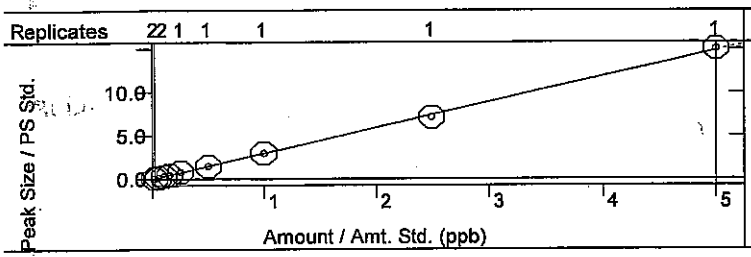


Calibration Curves Report

9-4-14 cpd 9-4-14

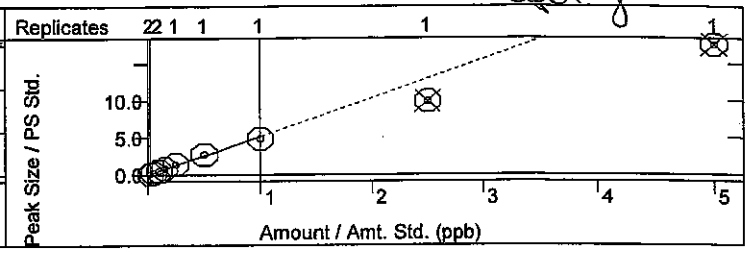
Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.142%, Coeff. Det.(r2): 0.999392
y = +2.9589x +0.0094

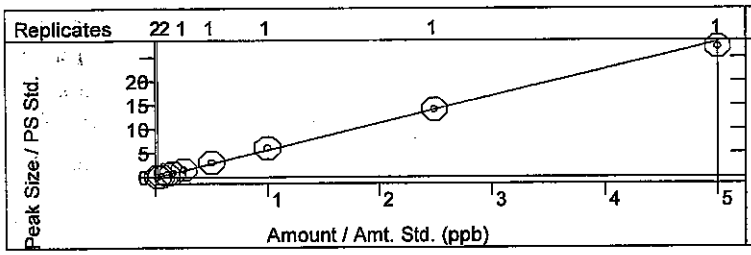


Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.975%, Coeff. Det.(r2): 0.995715
y = +5.1913x +0.0239

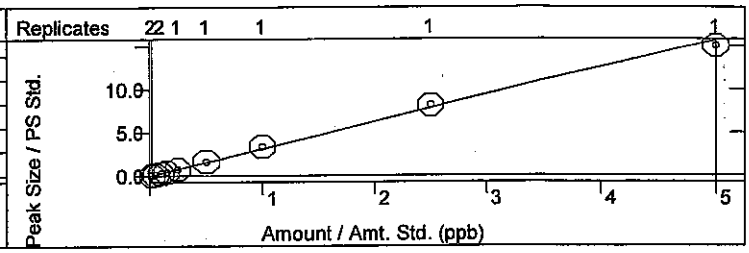
cpd 9/4



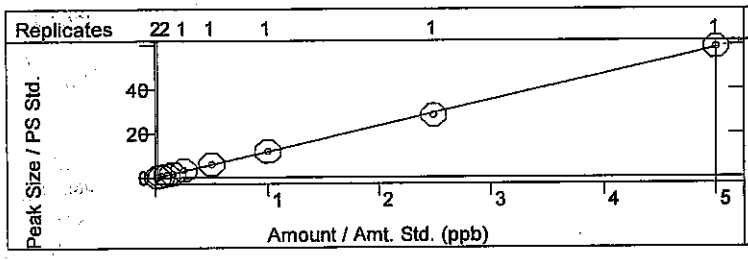
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.634%, Coeff. Det.(r2): 0.999154
y = +5.6338x +0.0224



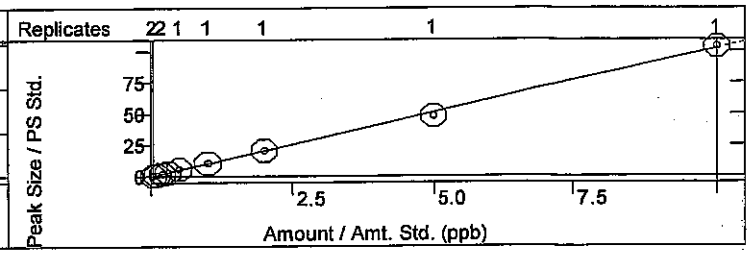
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.22%, Coeff. Det.(r2): 0.998047
y = +3.1481x -0.0258



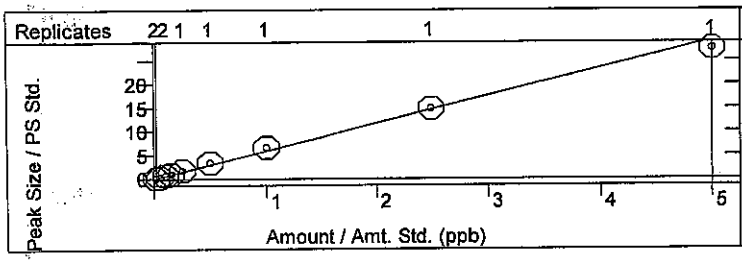
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.088%, Coeff. Det.(r2): 0.999494
y = +11.7081x +0.0625



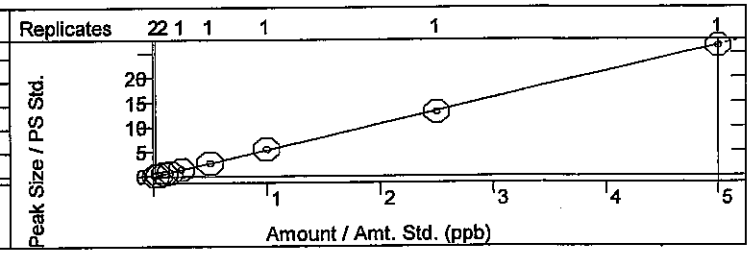
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.207%, Coeff. Det.(r2): 0.998798
y = +10.2159x +0.1080



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.581%, Coeff. Det.(r2): 0.997403
y = +5.8496x +0.0804



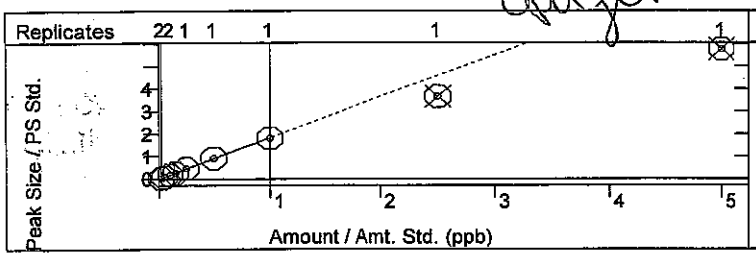
Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.693%, Coeff. Det.(r2): 0.999879
y = +5.3099x +0.0147



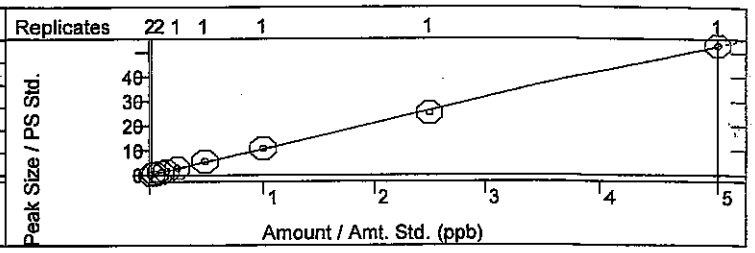
Calibration Curves Report

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

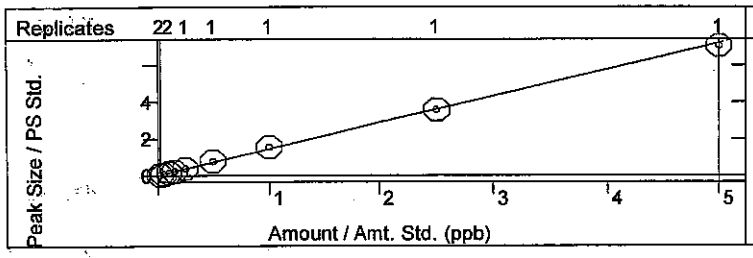
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.732%, Coeff. Det.(r2): 0.999739
y = +1.8403x -0.0045



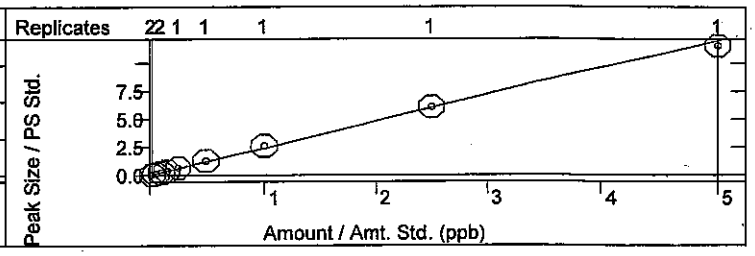
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.815%, Coeff. Det.(r2): 0.999452
y = +10.5405x +0.0557



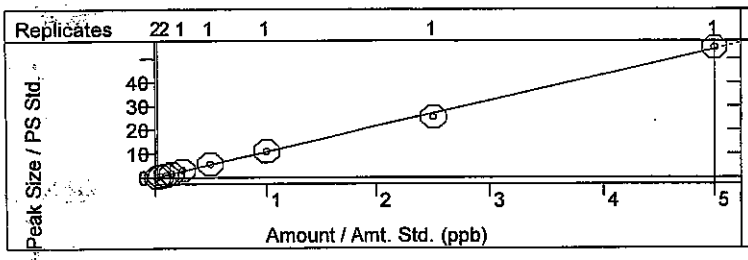
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.087%, Coeff. Det.(r2): 0.999669
y = +1.4451x +0.0081



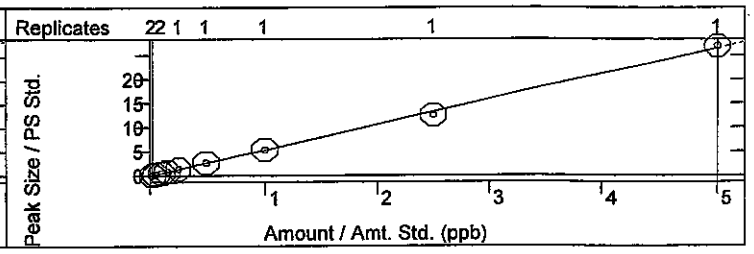
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.998961
y = +2.3996x +0.0158



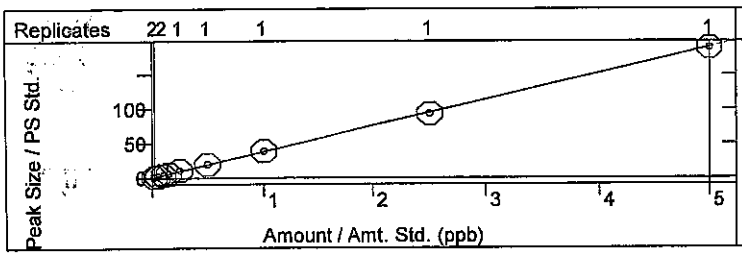
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.892%, Coeff. Det.(r2): 0.998825
y = +10.8045x +0.0550



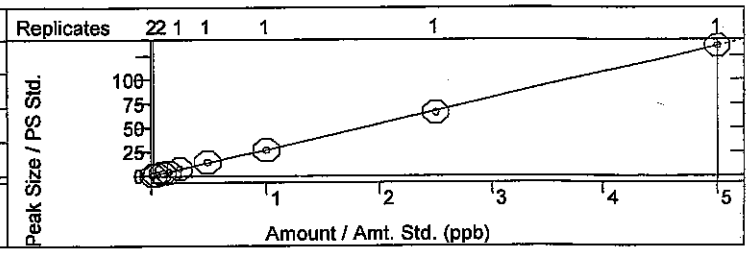
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.899%, Coeff. Det.(r2): 0.998854
y = +5.2942x +8.9042e-5



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.572%, Coeff. Det.(r2): 0.999866
y = +37.9568x +0.1982



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.263%, Coeff. Det.(r2): 0.999778
y = +27.0272x +0.1610

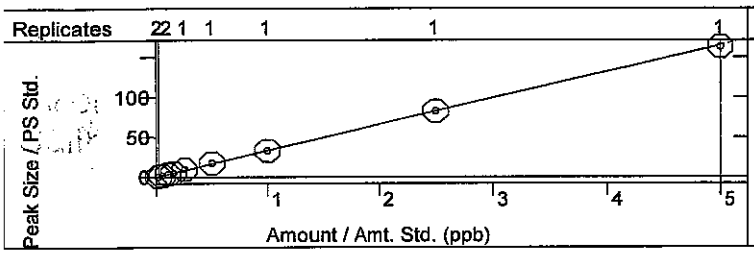


Calibration Curves Report

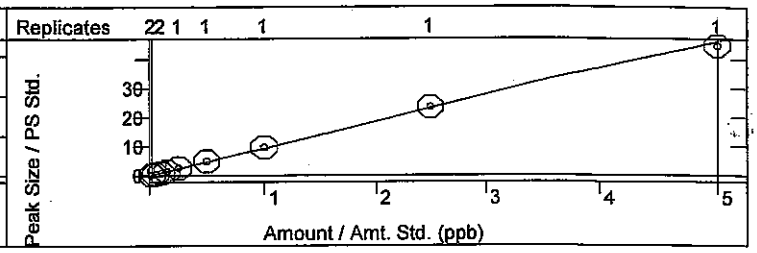
JA 9-8-14 cg 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

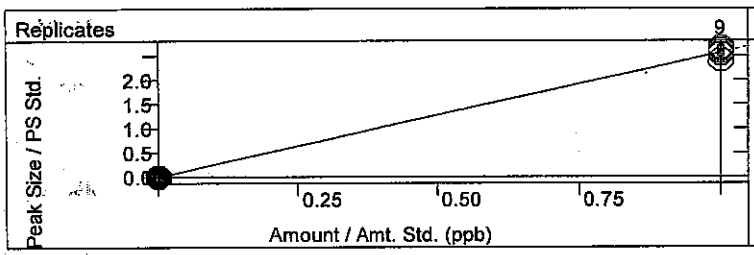
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.579%, Coeff. Det.(r2): 0.999899
y = +33.0292x +0.2445



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.757%, Coeff. Det.(r2): 0.999285
y = +9.2502x +0.0802

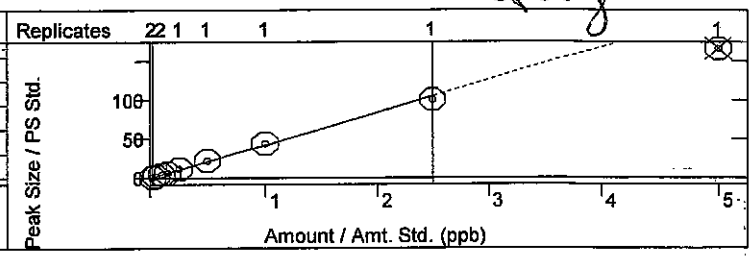


4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.121% Coeff. Det.(r2): 0.991417
y = +2.5690x

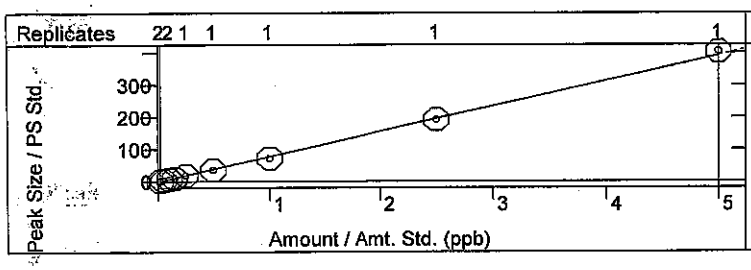


Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.448%, Coeff. Det.(r2): 0.998161
y = +41.9231x +0.3665

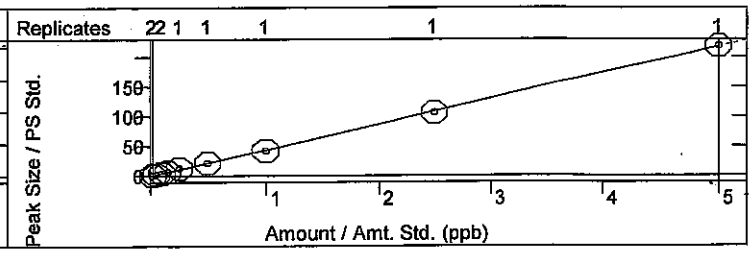
cpd jit



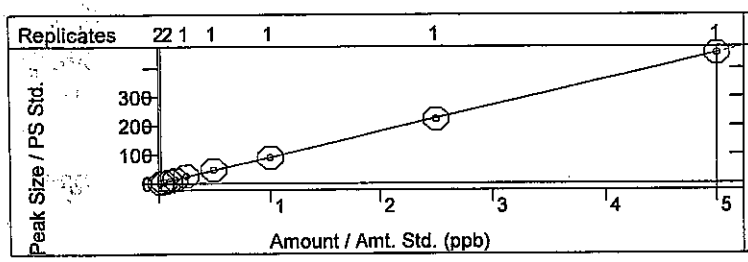
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.802%, Coeff. Det.(r2): 0.999312
y = +78.6326x -0.5475



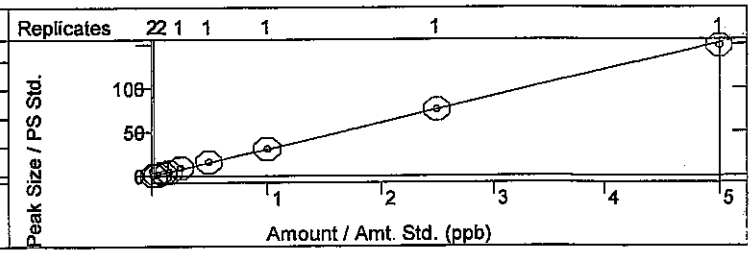
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.172%, Coeff. Det.(r2): 0.999800
y = +43.5086x +0.1223



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.063%, Coeff. Det.(r2): 0.999867
y = +90.5348x +0.2598



4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.217%, Coeff. Det.(r2): 0.999760
y = +30.2770x +0.1271

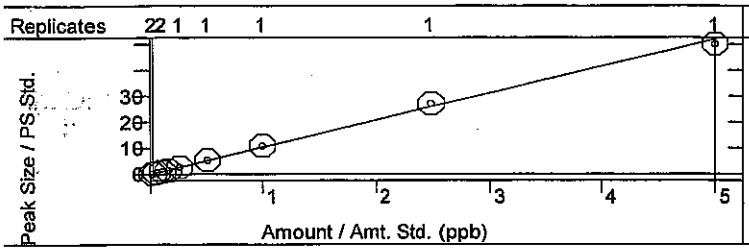


Calibration Curves Report

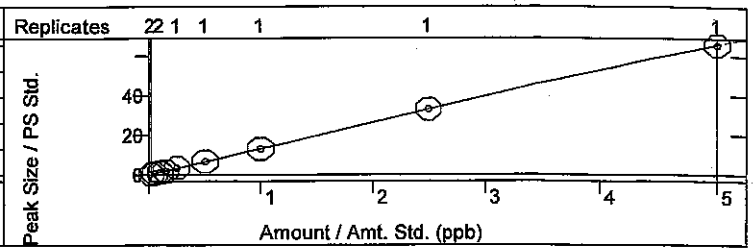
9-8-14 09.4.14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

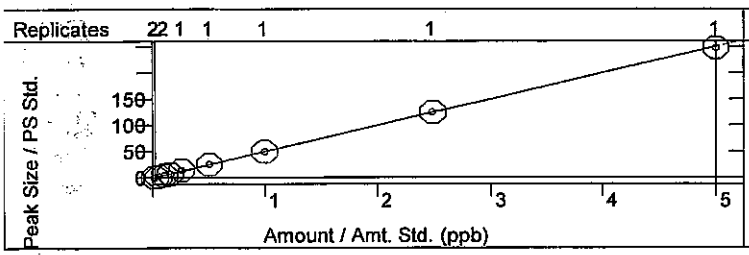
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.800%, Coeff. Det.(r2): 0.998357
y = +10.3966x +0.0185



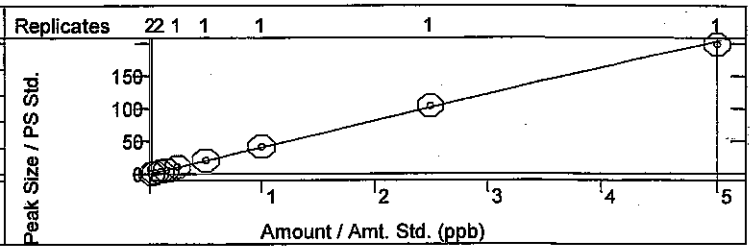
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.650%, Coeff. Det.(r2): 0.999959
y = +13.2051x +0.0167



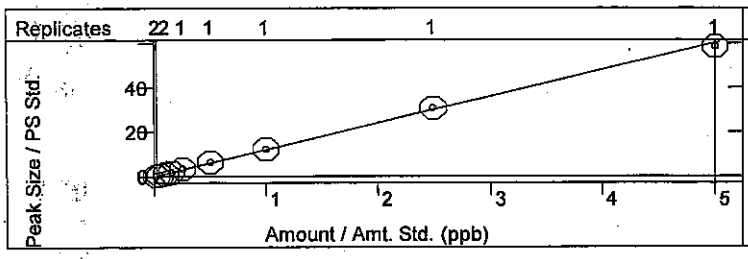
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.52%, Coeff. Det.(r2): 0.999904
y = +50.0584x -0.2464



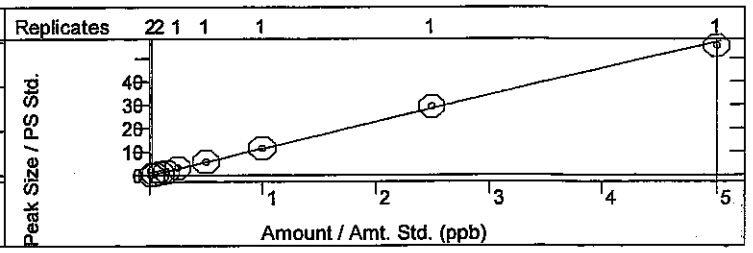
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.625%, Coeff. Det.(r2): 0.999413
y = +40.6854x +0.0721



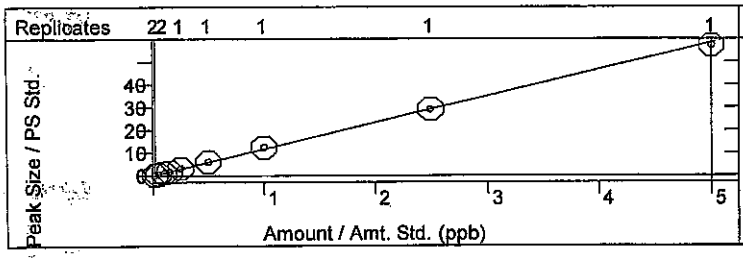
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.814%, Coeff. Det.(r2): 0.999359
y = +12.0551x +0.0695



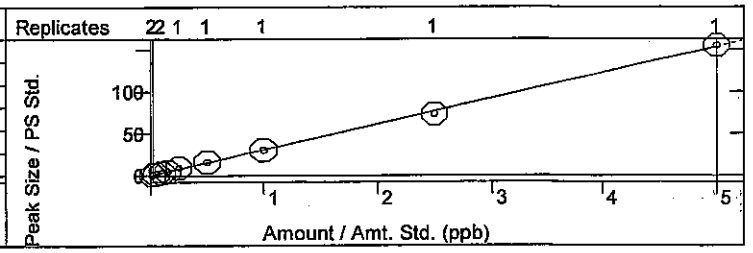
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.431%, Coeff. Det.(r2): 0.999158
y = +11.4181x +0.0101



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.445%, Coeff. Det.(r2): 0.999664
y = +11.6752x +0.0363



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.988%, Coeff. Det.(r2): 0.999172
y = +30.6810x +0.2157

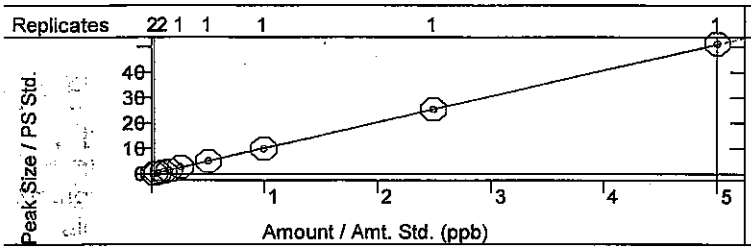


Calibration Curves Report

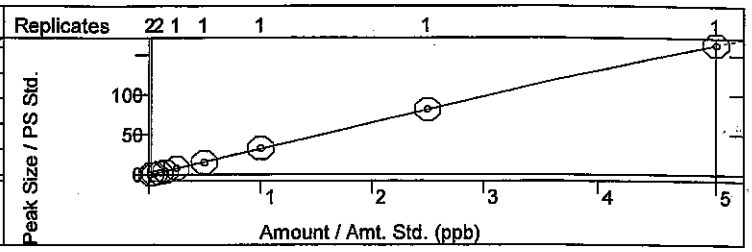
JH 9-8-14 cg 9-2-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

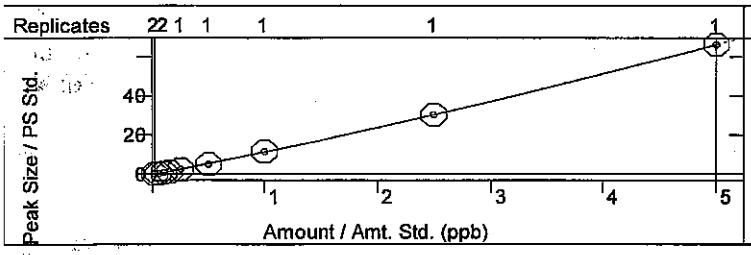
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.203%, Coeff. Det.(r2): 0.999938
y = +10.2100x -0.0514



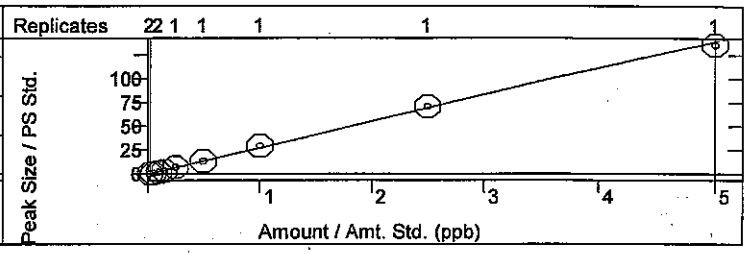
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.07%, Coeff. Det.(r2): 0.999925
y = +32.7507x -0.5342



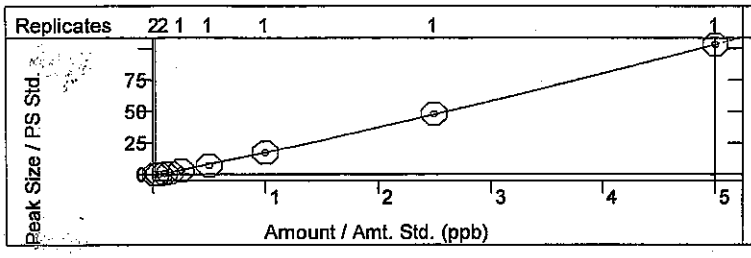
Naphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 34.14%, Coeff. Det.(r2): 0.999925
y = +0.4166x2 +11.2560x -0.3990



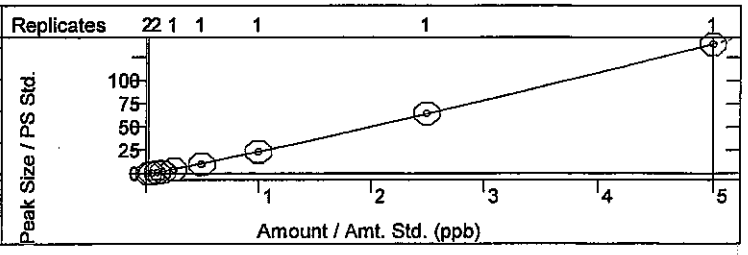
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.68%, Coeff. Det.(r2): 0.999155
y = +27.9638x -0.4212



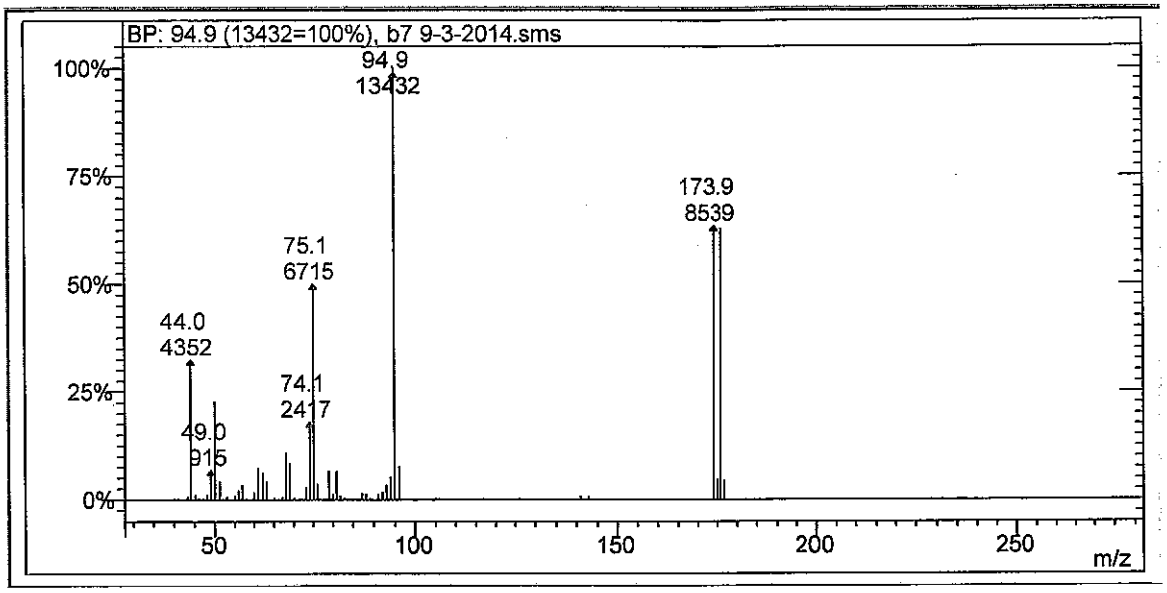
2-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 49.58%, Coeff. Det.(r2): 0.999762
y = +0.5470x2 +18.1464x -1.0873



1-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 45.07%, Coeff. Det.(r2): 0.999872
y = +0.7696x2 +24.2810x -1.2688



BFB 8260B Report



Lab File ID b7 9-3-2014.sms

Injection Date: 9/3/2014

Injection Time: 12:32

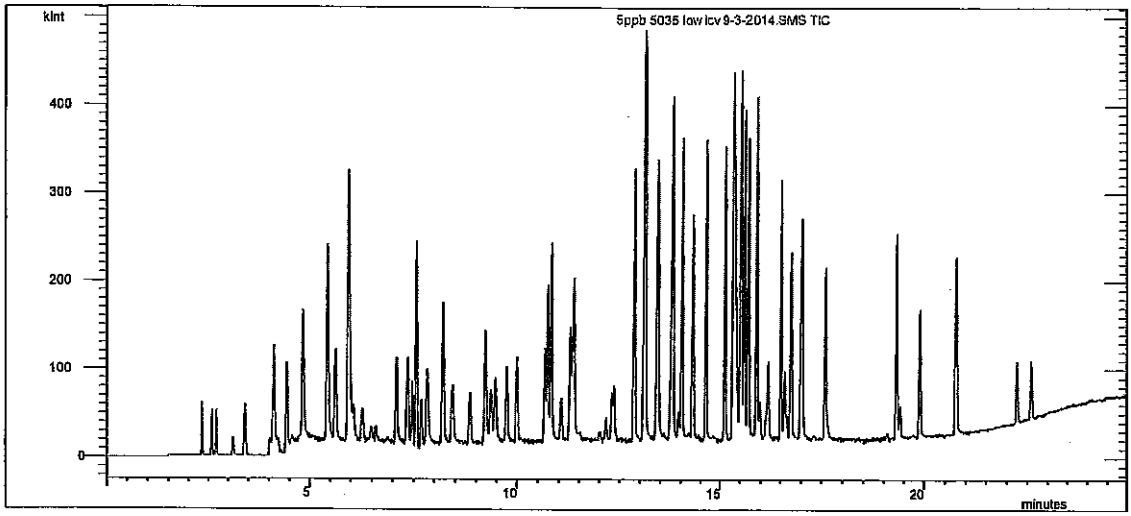
m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	22.74	PASS
75	30-60% of m/z 95	49.99	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.68	PASS
173	<2% of m/z 174	0.09	PASS
174	>50% of m/z 95	63.57	PASS
175	5-9% of m/z 174	7.44	PASS
176	>95% but <101% of m/z 174	99.07	PASS
177	5-9% of m/z 176	7.01	PASS

9-4-14

9-4-14

8260B/624 Report

Sample Name:	5ppb 5035 low icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0480	**Acquisition Date:**	9/3/2014 6:46:58 PM
Calculation Date:	9/4/2014 11:48:50 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.094	696	Identified	64075	20.000
Benzene-d5-, chloro-	13.403	1373	Identified	88987	20.000
1,4-Dichlorobenzene-d4	16.985	1752	Identified	33984	20.000
Dichlorodifluoromethane	2.336	183	Identified	44145	6.116
Chloromethane	2.579	209	Identified	203519	5.138
Vinyl chloride	2.689	221	Identified	240349	5.525
Chloroethane	3.119	267	Identified	39337	5.162
Bromomethane	3.124	268	Identified	42468	5.922
Trichlorofluoromethane	3.410	299	Identified	50341	4.489
1,1-Dichloroethene	4.114	376	Identified	121291	4.651
Acetone	4.292	395	Identified	94864	9.018
Carbon disulfide	4.430	410	Identified	219569	11.642
Iodomethane	4.557	423	Identified	143107	6.788
Methyl tert-butyl ether (MTBE)	4.827	452	Identified	233104	10.766
Isopropyl ether	5.434	517	Identified	1.128E6	11.564
tert-Butyl alcohol	5.498	524	Identified	291430	95.414
trans-1,2-DCE	5.627	538	Identified	231551	4.944
tert-Butyl ethyl ether	5.943	572	Identified	3.707E6	11.127
Methylene Chloride	5.977	576	Identified	159997	2.755
1,1-Dichloroethane	6.066	585	Identified	59972	3.531
Vinyl acetate	6.271	608	Failed SPL	692021	16.681
2,2-Dichloropropane	6.481	630	Identified	61068	6.593
2-Butanone	6.587	641	Identified	241544	11.473
1,1,1-Trichloroethane	7.357	725	Identified	86526	5.054

cgg-4-14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.469	736	Identified	124609	4.781
tert-Amyl methyl ether	7.566	747	Identified	1.022E6	10.766
Carbon Tetrachloride	7.688	759	Identified	41066	5.024
cis-1,2-DCE	7.835	775	Identified	44594	4.841
Benzene	8.202	814	Identified	162206	4.929
Chloroform	8.430	839	Identified	85312	4.824
Bromochloromethane	8.847	884	Identified	67728	5.387
Trichloroethene (TCE)	9.215	924	Identified	268227	5.056
Dibromofluoromethane	9.243	927	Identified	197047	19.750
1,2-Dichloroethane-d4	9.357	939	Identified	806399	20.504
1,2-Dichloroethane (EDC)	9.463	950	Identified	1.080E6	4.998
1,2-Dichloropropane	9.741	979	Identified	336108	5.126
4-Methyl-2-pentanone	9.991	1007	Identified	242089	11.324
Toluene-d8	10.740	1088	Identified	167927	20.746
Toluene	10.822	1096	Identified	244788	5.390
2-Chloroethyl vinyl ether	11.056	1121	Identified	271596	10.776
cis-1,3-dichloropropene	11.269	1144	Identified	322310	4.495
Bromodichloromethane	11.279	1145	Identified	72426	5.384
2-Hexanone	11.327	1151	Identified	622026	11.409
Tetrachloroethene (PCE)	11.361	1154	Identified	71825	5.392
Dibromomethane	11.367	1155	Identified	125581	5.345
1,3-Dichloropropane	12.310	1256	Identified	137755	5.416
trans-1,3-dichloropropene	12.364	1262	Identified	65218	4.820
Ethylbenzene	12.850	1314	Identified	290619	5.472
mp-Xylenes	13.100	1341	Identified	497121	10.725
1,1,2-Trichloroethane	13.093	1340	Identified	158919	5.831
Chlorobenzene	13.427	1375	Identified	124752	5.225
1,2-Dibromoethane (EDB)	13.409	1374	Identified	39064	4.820
o-Xylene	13.771	1412	Identified	259980	5.438
Dibromochloromethane	13.740	1408	Identified	36901	5.627
1,1,1,2-Tetrachloroethane	13.791	1413	Identified	60164	5.503
Isopropylbenzene	14.012	1437	Identified	266957	5.451
Styrene	14.280	1465	Identified	124324	5.277
n-Propylbenzene	14.636	1503	Identified	332633	5.053
1,3,5-Trimethylbenzene	15.115	1555	Identified	238490	5.074
tert-Butylbenzene	15.325	1577	Identified	294685	5.103
2-Chlorotoluene	15.363	1581	Failed	84054	5.174
4-Bromofluorobenzene	15.410	1585	Identified	84416	19.339
Bromobenzene	15.506	1596	Identified	377595	5.126
4-Chlorotoluene	15.524	1597	Identified	592052	4.570
sec-Butylbenzene	15.602	1606	Identified	381023	5.098
1,2,4-Trimethylbenzene	15.693	1615	Identified	781644	5.024
4-Isopropyltoluene	15.891	1636	Identified	284833	5.453
Bromoform	15.970	1644	Identified	87775	4.933
1,2,3-Trichloropropane	16.176	1666	Identified	114968	5.099
n-Butylbenzene	16.504	1701	Identified	414740	4.974
1,1,2,2-Tetrachloroethane	16.599	1711	Identified	358532	5.151
1,3-Dichlorobenzene	16.753	1728	Identified	105023	5.012
1,4-Dichlorobenzene	17.014	1755	Identified	98363	5.052
1,2-Dichlorobenzene	17.596	1818	Identified	99352	4.946

SQV

9-4-14

Operator: Rene Aguilera Inj. Notes: V-54-0480 5ppb 5035 low icv 9-3-2014.SMS

9/4/2014 11:49

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.311	2003	Identified	282641	5.281
1,2-Dibromo-3-chloropropane	19.401	2012	Identified	84313	4.961
1,2,4-Trichlorobenzene	19.895	2065	Identified	242994	4.693
Naphthalene	20.749	2156	Identified	74284	4.554
1,2,3-Trichlorobenzene	20.767	2158	Identified	211354	4.749
2-Methylnaphthalene	22.249	2313	Identified	147441	5.927
1-Methylnaphthalene	22.603	2351	Identified	190487	5.612

****
Revision Log
****

9/3/2014 7:11 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 8:18 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:48 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

Analytical Report
Lab Order: **1409219**
Date Reported: 9.10.14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001
Collection Date: 9/4/2014 8:42:00 AM
Client Sample ID: FFOR-CF-0063
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Aniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Benz(a)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Benzo(a)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Benzo(b)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Benzo(g,h,i)perylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Benzo(k)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Bis(2-ethylhexyl)phthalate	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Carbazole	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Chloro-3-methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Chloroaniline	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Chloronaphthalene	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Chrysene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Di-n-butyl phthalate	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Di-n-octyl phthalate	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Dibenz(a,h)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
3,3'-Dichlorobenzidine	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4-Dichlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4,6-Dinitro-2-methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4-Dinitrophenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4-Dinitrotoluene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,6-Dinitrotoluene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Fluorene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Indeno(1,2,3-cd)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Isophorone	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Methylnaphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Naphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Nitroaniline	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Nitrobenzene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
4-Nitrophenol	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Pentachlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Phenanthrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Phenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Pyridine	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 1:40:01 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 1:40:01 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	1	15158	9/8/2014 1:40:01 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	1	15158	9/8/2014 1:40:01 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 1:40:01 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	1	15158	9/8/2014 1:40:01 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	1	15158	9/8/2014 1:40:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409219**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-002
Client Sample ID: FFOR-CF-0064
Collection Date: 9/4/2014 8:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Aniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Benz(a)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Benzo(a)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Benzo(b)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Benzo(g,h,i)perylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Benzo(k)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Bis(2-ethylhexyl)phthalate	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Carbazole	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Chloro-3-methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Chloroaniline	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Chloronaphthalene	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Chrysene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Di-n-butyl phthalate	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Di-n-octyl phthalate	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Dibenz(a,h)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
3,3'-Dichlorobenzidine	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4-Dichlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4,6-Dinitro-2-methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4-Dinitrophenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4-Dinitrotoluene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,6-Dinitrotoluene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Fluorene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Indeno(1,2,3-cd)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Isophorone	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Methylnaphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Methylphenol	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Naphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Nitroaniline	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Nitrobenzene	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
4-Nitrophenol	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Pentachlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Phenanthrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Phenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Pyridine	ND	5.4		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:09:12 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 2:09:12 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	1	15158	9/8/2014 2:09:12 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	1	15158	9/8/2014 2:09:12 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 2:09:12 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	1	15158	9/8/2014 2:09:12 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	1	15158	9/8/2014 2:09:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-003
Client Sample ID: FFOR-CF-0065
Collection Date: 9/4/2014 9:00:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Aniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Benz(a)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Benzo(a)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Benzo(b)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Benzo(g,h,i)perylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Benzo(k)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Bis(2-ethylhexyl)phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Carbazole	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Chloro-3-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Chloroaniline	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Chloronaphthalene	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Chrysene	0.54	2.1	J	mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Di-n-butyl phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Di-n-octyl phthalate	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Dibenz(a,h)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
3,3'-Dichlorobenzidine	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4-Dichlorophenol	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4,6-Dinitro-2-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4-Dinitrophenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,6-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Fluorene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Indeno(1,2,3-cd)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Isophorone	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Methylnaphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Naphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Nitroaniline	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Nitrobenzene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
4-Nitrophenol	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Pentachlorophenol	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Phenanthrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Phenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Pyridine	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 2:38:24 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 2:38:24 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	1	15158	9/8/2014 2:38:24 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	1	15158	9/8/2014 2:38:24 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 2:38:24 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	1	15158	9/8/2014 2:38:24 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	1	15158	9/8/2014 2:38:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-004 **Collection Date:** 9/4/2014 9:00:00 AM
Client Sample ID: FFOR-CF-0066 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Acenaphthylene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Aniline	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Anthracene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Benz(a)anthracene	0.21	0.42	J	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Benzo(a)pyrene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Benzo(b)fluoranthene	0.18	0.42	J	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Benzo(g,h,i)perylene	0.14	0.42	J	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Benzo(k)fluoranthene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Bis(2-chloroethoxy)methane	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Bis(2-chloroethyl)ether	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Bis(2-chloroisopropyl)ether	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Bromophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Butyl benzyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Carbazole	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Chloronaphthalene	ND	0.53		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Chlorophenol	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Chlorophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Chrysene	0.15	0.42	J	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Di-n-octyl phthalate	ND	0.84		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Dibenz(a,h)anthracene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Dibenzofuran	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
3,3'-Dichlorobenzidine	ND	0.53		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Diethyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Dimethyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4-Dichlorophenol	ND	0.84		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4-Dimethylphenol	ND	0.63		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Fluorene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Hexachlorobenzene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Hexachlorobutadiene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Hexachlorocyclopentadiene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Hexachloroethane	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Indeno(1,2,3-cd)pyrene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Isophorone	ND	1.1	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Methylnaphthalene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Methylphenol	ND	1.1	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
3+4-Methylphenol	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
N-Nitrosodimethylamine	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
N-Nitrosodiphenylamine	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Naphthalene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Nitroaniline	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
3-Nitroaniline	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Nitroaniline	ND	0.84	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Nitrobenzene	ND	1.1	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2-Nitrophenol	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
4-Nitrophenol	ND	0.53	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Pentachlorophenol	ND	0.84	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Phenanthrene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Phenol	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Pyrene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Pyridine	ND	1.1	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4,5-Trichlorophenol	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
2,4,6-Trichlorophenol	ND	0.42	mg/Kg-dry	1	15158	9/9/2014 1:44:41 PM
Surr: 2-Fluorophenol	77.4	21-111	%REC	1	15158	9/9/2014 1:44:41 PM
Surr: Phenol-d5	69.1	23.1-117	%REC	1	15158	9/9/2014 1:44:41 PM
Surr: 2,4,6-Tribromophenol	72.5	22.7-88.9	%REC	1	15158	9/9/2014 1:44:41 PM
Surr: Nitrobenzene-d5	82.2	24.5-126	%REC	1	15158	9/9/2014 1:44:41 PM
Surr: 2-Fluorobiphenyl	88.4	21.2-129	%REC	1	15158	9/9/2014 1:44:41 PM
Surr: 4-Terphenyl-d14	76.4	39.4-107	%REC	1	15158	9/9/2014 1:44:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-005 **Collection Date:** 9/4/2014 9:30:00 AM
Client Sample ID: FFOR-CF-0067 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Acenaphthylene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Aniline	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Anthracene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Benz(a)anthracene	0.23	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Benzo(a)pyrene	0.15	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Benzo(b)fluoranthene	0.23	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Benzo(g,h,i)perylene	0.15	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Benzo(k)fluoranthene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Bis(2-chloroethoxy)methane	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Bis(2-chloroethyl)ether	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Bis(2-chloroisopropyl)ether	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Bromophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Butyl benzyl phthalate	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Carbazole	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Chloro-3-methylphenol	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Chloroaniline	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Chloronaphthalene	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Chlorophenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Chlorophenyl phenyl ether	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Chrysene	0.19	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Di-n-butyl phthalate	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Di-n-octyl phthalate	ND	0.83		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Dibenz(a,h)anthracene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Dibenzofuran	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
1,2-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
1,3-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
1,4-Dichlorobenzene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
3,3'-Dichlorobenzidine	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Diethyl phthalate	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Dimethyl phthalate	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4-Dichlorophenol	ND	0.83		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4-Dimethylphenol	ND	0.62		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4,6-Dinitro-2-methylphenol	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4-Dinitrotoluene	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,6-Dinitrotoluene	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.29	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Fluorene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Hexachlorobenzene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Hexachlorobutadiene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Hexachlorocyclopentadiene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Hexachloroethane	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Indeno(1,2,3-cd)pyrene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Isophorone	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Methylnaphthalene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Methylphenol	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
3+4-Methylphenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
N-Nitrosodi-n-propylamine	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
N-Nitrosodimethylamine	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
N-Nitrosodiphenylamine	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Naphthalene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Nitroaniline	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
3-Nitroaniline	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Nitroaniline	ND	0.83		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Nitrobenzene	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2-Nitrophenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
4-Nitrophenol	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Pentachlorophenol	ND	0.83		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Phenanthrene	0.23	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Phenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Pyrene	0.28	0.41	J	mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Pyridine	ND	1.0		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
1,2,4-Trichlorobenzene	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4,5-Trichlorophenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
2,4,6-Trichlorophenol	ND	0.41		mg/Kg-dry	1	15158	9/8/2014 3:07:51 PM
Surr: 2-Fluorophenol	85.9	21-111		%REC	1	15158	9/8/2014 3:07:51 PM
Surr: Phenol-d5	78.0	23.1-117		%REC	1	15158	9/8/2014 3:07:51 PM
Surr: 2,4,6-Tribromophenol	56.7	22.7-88.9		%REC	1	15158	9/8/2014 3:07:51 PM
Surr: Nitrobenzene-d5	89.3	24.5-126		%REC	1	15158	9/8/2014 3:07:51 PM
Surr: 2-Fluorobiphenyl	82.5	21.2-129		%REC	1	15158	9/8/2014 3:07:51 PM
Surr: 4-Terphenyl-d14	79.4	39.4-107		%REC	1	15158	9/8/2014 3:07:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Aniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Benz(a)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Benzo(a)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Benzo(b)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Benzo(g,h,i)perylene	0.79	2.1	J	mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Benzo(k)fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Bis(2-ethylhexyl)phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Carbazole	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Chloro-3-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Chloroaniline	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Chloronaphthalene	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Chrysene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Di-n-butyl phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Di-n-octyl phthalate	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Dibenz(a,h)anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
3,3'-Dichlorobenzidine	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4-Dichlorophenol	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4,6-Dinitro-2-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4-Dinitrophenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,6-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Fluorene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Indeno(1,2,3-cd)pyrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Isophorone	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Methylnaphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Naphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Nitroaniline	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Nitrobenzene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
4-Nitrophenol	ND	2.6		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Pentachlorophenol	ND	4.2		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Phenanthrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Phenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Pyrene	0.81	2.1	J	mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Pyridine	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 3:37:24 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 3:37:24 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	1	15158	9/8/2014 3:37:24 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	1	15158	9/8/2014 3:37:24 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 3:37:24 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	1	15158	9/8/2014 3:37:24 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	1	15158	9/8/2014 3:37:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-007 **Collection Date:** 9/4/2014 2:31:00 PM
Client Sample ID: FFOR-CF-0069 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Acenaphthylene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Aniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Anthracene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Benz(a)anthracene	1.9	2.1	J	mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Benzo(a)pyrene	8.6	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Benzo(b)fluoranthene	14	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Benzo(g,h,i)perylene	3.8	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Benzo(k)fluoranthene	4.9	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Bis(2-chloroethoxy)methane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Bis(2-chloroethyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Bis(2-chloroisopropyl)ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Bis(2-ethylhexyl)phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Bromophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Butyl benzyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Carbazole	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Chloro-3-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Chloroaniline	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Chloronaphthalene	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Chlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Chlorophenyl phenyl ether	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Chrysene	3.6	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Di-n-butyl phthalate	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Di-n-octyl phthalate	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Dibenz(a,h)anthracene	1.7	2.1	J	mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Dibenzofuran	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
1,2-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
1,3-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
1,4-Dichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
3,3'-Dichlorobenzidine	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Diethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Dimethyl phthalate	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4-Dichlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4-Dimethylphenol	ND	3.2		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4,6-Dinitro-2-methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4-Dinitrophenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,6-Dinitrotoluene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.80	2.1	J	mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Fluorene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Hexachlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Hexachlorobutadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Hexachlorocyclopentadiene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Hexachloroethane	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Indeno(1,2,3-cd)pyrene	4.8	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Isophorone	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Methylnaphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Methylphenol	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
3+4-Methylphenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
N-Nitrosodi-n-propylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
N-Nitrosodimethylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
N-Nitrosodiphenylamine	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Naphthalene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
3-Nitroaniline	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Nitroaniline	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Nitrobenzene	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2-Nitrophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
4-Nitrophenol	ND	2.7		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Pentachlorophenol	ND	4.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Phenanthrene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Phenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Pyrene	24	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Pyridine	ND	5.3		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
1,2,4-Trichlorobenzene	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4,5-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
2,4,6-Trichlorophenol	ND	2.1		mg/Kg-dry	1	15158	9/8/2014 4:06:29 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 4:06:29 PM
Surr: Phenol-d5	0	23.1-117	S	%REC	1	15158	9/8/2014 4:06:29 PM
Surr: 2,4,6-Tribromophenol	0	22.7-88.9	S	%REC	1	15158	9/8/2014 4:06:29 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 4:06:29 PM
Surr: 2-Fluorobiphenyl	0	21.2-129	S	%REC	1	15158	9/8/2014 4:06:29 PM
Surr: 4-Terphenyl-d14	0	39.4-107	S	%REC	1	15158	9/8/2014 4:06:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-008 **Collection Date:** 9/4/2014 2:45:00 PM
Client Sample ID: FFOR-CF-0070 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Aniline	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Anthracene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Chrysene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Di-n-butyl phthalate	0.060	0.53	J	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Fluorene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Hexachlorobenzene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Hexachlorobutadiene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Hexachlorocyclopentadiene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Hexachloroethane	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Isophorone	ND	0.53	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Methylnaphthalene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Methylphenol	ND	0.53	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
3+4-Methylphenol	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
N-Nitrosodi-n-propylamine	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
N-Nitrosodiphenylamine	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Naphthalene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Nitroaniline	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Nitrobenzene	ND	0.53	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
4-Nitrophenol	ND	0.26	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Pentachlorophenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Phenanthrene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Phenol	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Pyrene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Pyridine	ND	0.53	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	15158	9/8/2014 4:35:48 PM
Surr: 2-Fluorophenol	61.2	21-111	%REC	1	15158	9/8/2014 4:35:48 PM
Surr: Phenol-d5	62.8	23.1-117	%REC	1	15158	9/8/2014 4:35:48 PM
Surr: 2,4,6-Tribromophenol	66.4	22.7-88.9	%REC	1	15158	9/8/2014 4:35:48 PM
Surr: Nitrobenzene-d5	67.7	24.5-126	%REC	1	15158	9/8/2014 4:35:48 PM
Surr: 2-Fluorobiphenyl	74.5	21.2-129	%REC	1	15158	9/8/2014 4:35:48 PM
Surr: 4-Terphenyl-d14	70.5	39.4-107	%REC	1	15158	9/8/2014 4:35:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-009
Client Sample ID: FFOR-CF-0071
Collection Date: 9/4/2014 2:54:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Benz(a)anthracene	0.10	0.22	J	mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Comment: DUE 09/09/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Fluorene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Indeno(1,2,3-cd)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Isophorone	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Naphthalene	0.21	0.22	J	mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
4-Nitrophenol	ND	0.28		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Phenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Pyrene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Pyridine	ND	0.55		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 1:15:26 PM
Surr: 2-Fluorophenol	37.3	21-111		%REC	1	15158	9/9/2014 1:15:26 PM
Surr: Phenol-d5	40.4	23.1-117		%REC	1	15158	9/9/2014 1:15:26 PM
Surr: 2,4,6-Tribromophenol	51.8	22.7-88.9		%REC	1	15158	9/9/2014 1:15:26 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/9/2014 1:15:26 PM
Surr: 2-Fluorobiphenyl	43.2	21.2-129		%REC	1	15158	9/9/2014 1:15:26 PM
Surr: 4-Terphenyl-d14	43.6	39.4-107		%REC	1	15158	9/9/2014 1:15:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Start Date: 09/07/14 10:36:38 A
Prep End Date:

Extraction Method: 3540 9.7.14 Time Ended:

Reviewed By: dam 9/8/14

Prep Batch ID: 15158 Prep Code: 8270SOX_PR Method No: 3540 Technician: John Caldwell

Initial Temp: °C Final Temp °C

Prep Factor Units: mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15158		Soil			30	0	0	1	0.033	09/07/14	
LCS-15158		Soil			30	0	0	1	0.033	09/07/14	
1409219-001A	FFOR-CF-0063	MeOH (Soil)			30.47	0	0	10	0.033	09/07/14	
1409219-002A	FFOR-CF-0064	MeOH (Soil)			30.47	0	0	10	0.033	09/07/14	
1409219-003A	FFOR-CF-0065	MeOH (Soil)			30.44	0	0	10	0.033	09/07/14	
1409219-004A	FFOR-CF-0066	MeOH (Soil)			30.66	0	0	2	0.033	09/07/14	
1409219-005A	FFOR-CF-0067	MeOH (Soil)			30.99	0	0	2	0.033	09/07/14	
1409219-006A	FFOR-CF-0068	MeOH (Soil)			30.91	0	0	10	0.033	09/07/14	
1409219-007A	FFOR-CF-0069	MeOH (Soil)			30.07	0	0	10	0.033	09/07/14	
1409219-008A	FFOR-CF-0070	MeOH (Soil)			30.74	0	0	1	0.033	09/07/14	
1409219-008AMS		MeOH (Soil)			30.07	0	0	1	0.033	09/07/14	
1409219-008AMSD		MeOH (Soil)			30.12	0	0	1	0.033	09/07/14	
1409219-009A	FFOR-CF-0071	MeOH (Soil)			30.15	0	0	1	0.033	09/07/14	
1409275-001A	FFOR-CF-0072	MeOH (Soil)			30.10	0	0	1	0.033	09/07/14	
1409275-002A	FFOR-CF-0073	MeOH (Soil)			30.98	0	0	1	0.033	09/07/14	
1409275-003A	FFOR-CF-0074	MeOH (Soil)			~~30~~ 31.10	0	0	1	0.033	09/07/14	
1409275-004A	FFOR-CF-0075	MeOH (Soil)			30.06	0	0	2	0.033	09/07/14	
1409275-005A	FFOR-CF-0076	MeOH (Soil)			~~30~~ 31.41	0	0	2	0.033	09/07/14	
1409275-006A	FFOR-CF-0077	MeOH (Soil)			30.87	0	0	2	0.033	09/07/14	
1409275-009A	FFOR-CF-0111	MeOH (Soil)			30.22	0	0	1	0.033	09/07/14	
1409275-010A	FFOR-CF-0112	MeOH (Soil)			30.37	0	0	1	0.033	09/07/14	
1409275-011A	FFOR-CF-0113	MeOH (Soil)			30.51	0	0	1	0.033	09/07/14	

dam 9/8/14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

9.7.14

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **09/07/14 10:36:38 A**
Prep End Date:

Prep Batch ID: **15158** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **John Caldwell**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 JC 9.7.14	µL
ST8270-14029	8270 BNA Surrogate	ALL	25746	Container-01 of 01	500 JC 9.7.14	µL
ST8270-14031	8270 Internal Standard	ALL	26282	Container-01 of 01	20 dam 9/8	µL

JC 9-7-14

PREP BATCH REPORT

****

Varian Star Workstation - 8400 SampleList Tue Sep 09 08:21:40 2014

SampleList: C:\VarianWS\090814.smp

Created: Mon Sep 08 09:46:03 2014
Modified: Mon Sep 08 23:21:33 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume	
1	dftpp tune	1	below	0	1.0	
	Notes sv110-0601					
2	50ppm ccv	1	below	1	1.0	
	Notes sv110-0594					
3	50ppm ccvb	1	below	1	1.0	
	Notes sv110-0594					
4	10ppm ll ccv	1	below	2	1.0	
	Notes sv110-0562					
5	1408f23-001a	1	below	3	1.0	
	Notes x1 ll					
6	1408f23-001ams	1	below	4	1.0	
	Notes x1 ll					
7	1408f23-001amsd	1	below	5	1.0	
	Notes x1 ll					
8						
9	mb-15158	1	below	6	1.0	
	Notes x1 soil					
10	lcs-15158	1	below	7	1.0	
	Notes x1 soil					
11	1409219-001a	1	below	8	1.0	
	Notes x1 soil		FV=10mL			
12	1409219-002a	1	below	9	1.0	
	Notes x1 soil		FV=10mL			
13	1409219-003a	1	below	10	1.0	
	Notes x1 soil		FV=10mL			
14	1409219-005a	1	below	11	1.0	
	Notes x1 soil		FV=2mL			
15	1409219-006a	1	below	12	1.0	
	Notes x1 soil		FV=10mL			
16	1409219-007a	1	below	13	1.0	
	Notes x1 soil		FV=10mL			
17	1409219-008a	1	below	14	1.0	
	Notes x1 soil					
18	1409219-008ams	1	below	15	1.0	
	Notes x1 soil					
19	1409275-001a	1	below	16	1.0	
	Notes x1 soil					
20	1409275-003a	1	below	17	1.0	
	Notes x1 soil					
21	1409275-004a	1	below	18	1.0	
	Notes x1 soil		FV=2mL			
22	1409275-006a	1	below	19	1.0	
	Notes x1 soil		FV=2mL			
23	1409275-009a	1	below	20	1.0	
	Notes x1 soil					
24	1409275-011a	1	below	21	1.0	
	Notes x1 soil					
25	1409219-008amsd	1	below	22	1.0	
	Notes x1 soil					
26	1409275-010a	1	below	23	1.0	
	Notes x1 soil					
27	1409275-005a	1	below	24	1.0	
	Notes x1 soil		FV=2mL			
28	1409219-003a	1	below	25	1.0	RR
	Notes x1 soil		FV=2mL			
29	1409219-004a	1	below	26	1.0	RR
	Notes x1 soil		FV=2mL			
30	1409275-002a	1	below	27	1.0	RR
	Notes x1 soil					
31						

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

dam 9/9/14

CL x10

24-09

OUT OF 12 hr clock

1409219-09A dam 9/9/14

JV 9.9.14

Create and update a new RecalcList: c:\varianws\090814.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ☑ and ☑.

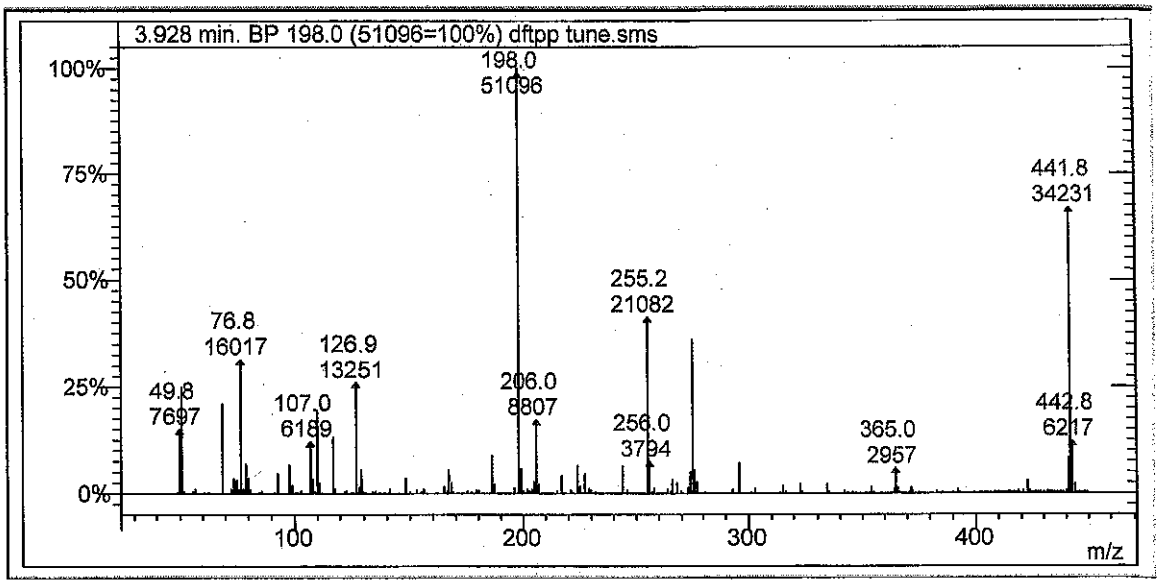
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: _____ 4/28/14

QA: _____ 4.28.14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/8/2014

Injection Time: 9:48

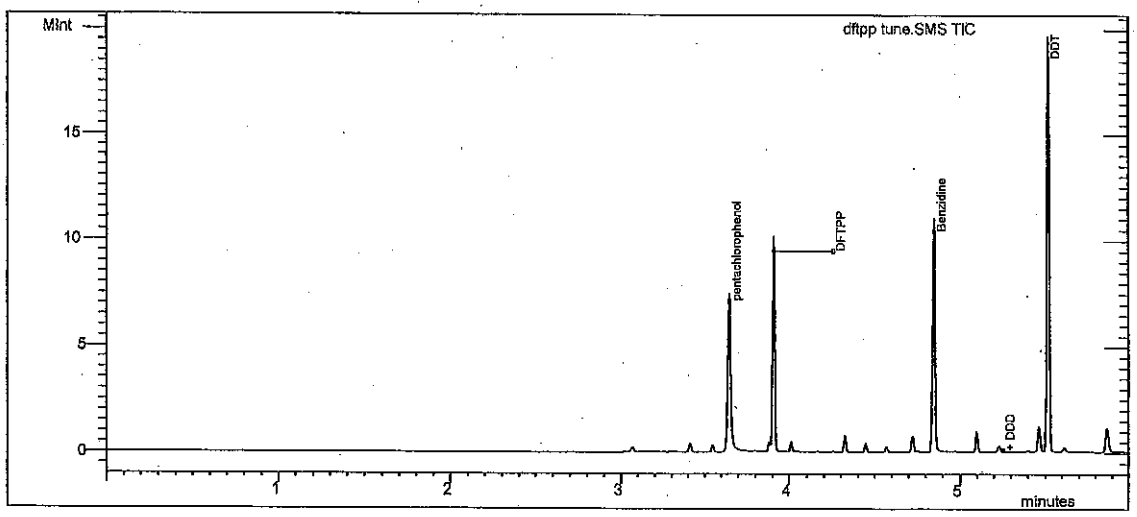
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	24.98	PASS
68	<2% of m/z 69	0.51	PASS
69	Present	21.02	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	25.93	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.71	PASS
275	10-60% of base peak	36.01	PASS
365	>1% of base peak	5.79	PASS
441	Present and <m/z 443	67.30	PASS
442	>50% of m/z 198	66.99	PASS
443	15-24% of m/z 442	18.16	PASS

dm 9/9/14

9.9.14

Degradation Report

Acquisition Date:	9/8/2014 9:48:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.519	4.984E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.252	18220	5
DDE	4.971	1710	6

% Degradation of DDT : = .398

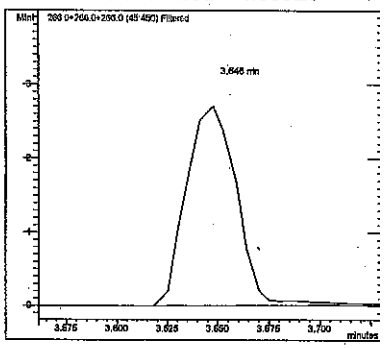
dm 9/9/14

9.9.14

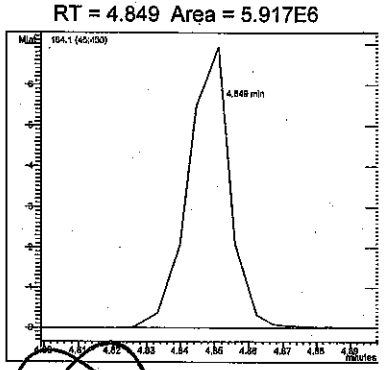
Tailing and Gaussian Factor Report

Acquisition Date:	9/8/2014 9:48:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.646 Area = 4.685E6



Benzidine
RT = 4.849 Area = 5.917E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.646	1.068	0.852
Benzidine	4.849	0.590	0.871

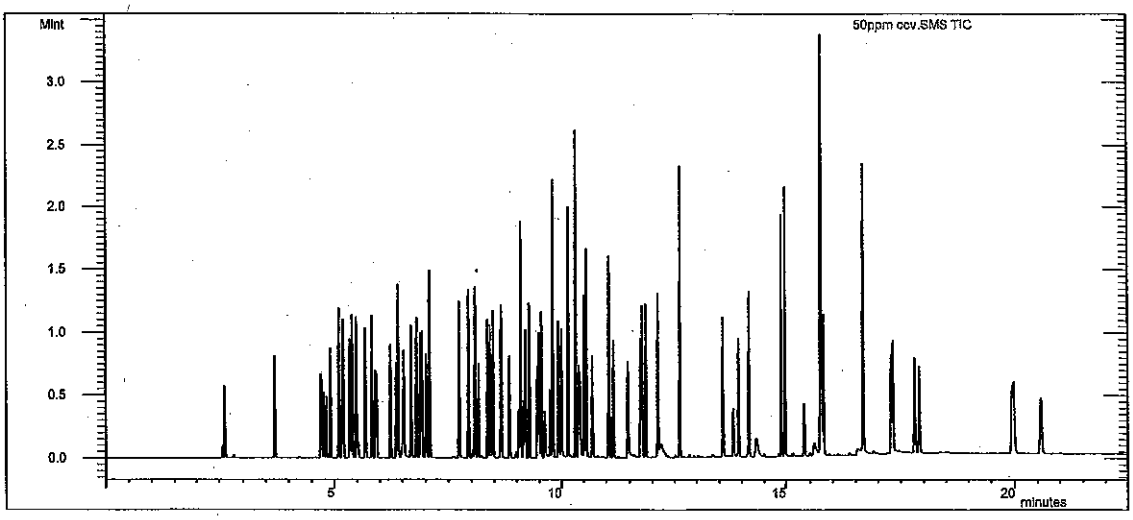
#	Compound Name	RT	Area
1	pentachlorophenol	3.646	4.685E6
3	Benzidine	4.849	5.917E6

dam 9/9/14

JC 9.9.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/8/2014 10:02:30 AM
Calculation Date:	9/8/2014 10:25:00 AM				



RR

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.174	437	Identified	213158	40.000
Naphthalene-d8 (I.S)	6.897	617	Identified	679716	40.000
Acenaphthene-d10 (I.S)	9.495	890	Identified	291680	40.000
Phenanthrene-d10	11.742	1124	Identified	624472	40.000
Chrysene-d12 I.S	15.757	1541	Identified	647475	40.000
Perylene-d12 I.S	17.907	1761	Identified	829049	40.000
N-nitrosodimethylamine	2.584	163	Identified	869516	53.790
Pyridine	2.629	168	Identified	2.782E6	57.465
2-Fluorophenol	3.699	281	Identified	292073	47.777
Phenol-d5	4.705	388	Identified	291605	50.123
Phenol	4.721	390	Identified	314574	48.123
Aniline	4.774	395	Identified	861812	39.515
Bis(2-chloroethyl)ether	4.829	401	Identified	504014	46.932
2-Chlorophenol	4.917	410	Identified	317407	49.789
1,3-Dichlorobenzene	5.104	430	Identified	377640	46.965
1,4-Dichlorobenzene	5.196	439	Identified	379769	49.942
Benzyl alcohol	5.341	455	Identified	295093	49.376
1,2-Dichlorobenzene	5.392	460	Identified	371159	49.500
2-Methylphenol	5.479	469	Identified	255743	49.178
Bis(2-chloroisopropyl)ether	5.498	471	Identified	332754	44.411
3+4-Methylphenol	5.684	490	Identified	281581	42.977
N-Nitrosodi-n-propylamine	5.675	490	Identified	882580	46.774
Hexachloroethane	5.830	506	Identified	1.250E6	50.627
Nitrobenzene-d5	5.904	514	Identified	269211	51.587

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.931	516	Identified	247653	45.801
Isophorone	6.237	549	Identified	516515	51.912
2-Nitrophenol	6.364	562	Identified	269901	51.191
2,4-Dimethylphenol	6.412	567	Identified	293147	47.272
Benzoic acid	6.519	578	Identified	2.309E6	61.167
Bis(2-chloroethoxy)methane	6.539	580	Identified	334696	54.401
2,4-Dichlorophenol	6.700	597	Identified	292940	48.780
1,2,4-Trichlorobenzene	6.814	609	Identified	284908	51.314
Naphthalene	6.929	621	Identified	683348	48.431
4-Chloroaniline	7.017	630	Identified	311126	47.406
Hexachlorobutadiene	7.088	637	Identified	568689	50.343
4-Chloro-3-methylphenol	7.730	705	Identified	350627	49.233
2-Methylnaphthalene	7.932	726	Identified	203409	47.531
1-Methylnaphthalene	8.080	742	Identified	206415	47.366
Hexachlorocyclopentadiene	8.157	750	Identified	364303	42.737
2,4,6-Trichlorophenol	8.362	771	Failed	130312	49.804
2,4,5-Trichlorophenol	8.419	777	Identified	117199	48.367
2-Fluorobiphenyl	8.477	783	Identified	564828	50.465
2-Chloronaphthalene	8.659	802	Identified	592677	51.924
2-Nitroaniline	8.839	821	Identified	433513	53.307
Dimethyl phthalate	9.094	848	Identified	1.119E6	53.349
2,6-Dinitrotoluene	9.199	859	Identified	261555	51.971
Acenaphthylene	9.283	868	Identified	707243	49.779
3-Nitroaniline	9.459	886	Identified	414755	52.236
Acenaphthene	9.544	895	Identified	451959	49.062
2,4-Dinitrophenol	9.612	902	Identified	1.290E6	78.231
4-Nitrophenol	9.741	915	Failed	87141	61.577
Dibenzofuran	9.803	922	Identified	317410	47.347
2,4-Dinitrotoluene	9.805	922	Identified	132931	49.416
Diethyl phthalate	10.152	958	Identified	939834	51.368
4-Chlorophenyl phenyl ether	10.318	975	Failed	284272	46.842
Fluorene	10.319	975	Identified	912159	48.080
4-Nitroaniline	10.387	982	Identified	781814	55.421
4,6-Dinitro-2-methylphenol	10.420	985	Identified	1.345E6	68.215
N-Nitrosodiphenylamine	10.510	995	Identified	506510	48.762
Azobenzene	10.561	1000	Identified	684859	46.750
2,4,6-Tribromophenol	10.694	1014	Identified	1.283E6	49.611
4-Bromophenyl phenyl ether	11.059	1052	Identified	373126	46.799
Hexachlorobenzene	11.150	1062	Identified	402295	46.593
Pentachlorophenol	11.464	1095	Identified	1.363E6	60.675
Phenanthrene	11.777	1127	Identified	737364	49.117
Anthracene	11.854	1135	Identified	760665	50.061
Carbazole	12.119	1163	Identified	716814	48.395
Di-n-butyl phthalate	12.621	1215	Identified	1.504E6	47.807
Fluoranthene	13.583	1316	Identified	697029	47.939
Benzidine	13.815	1340	Identified	272206	31.157
Pyrene	13.929	1352	Identified	704940	51.931
4-Terphenyl-d14	14.162	1376	Identified	912838	47.131
Butyl benzyl phthalate	14.899	1452	Identified	791477	51.564
3,3'-Dichlorobenzidine	15.725	1538	Identified	1.597E6	50.883

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.742	1539	Identified	1.407E6	47.999
Bis(2-ethylhexyl)phthalate	15.739	1539	Identified	814758	42.427
Chrysene	15.797	1545	Identified	1.741E6	51.641
Di-n-octyl phthalate	16.671	1635	Identified	2.080E6	53.864
Benzo(b)fluoranthene	17.295	1699	Identified	1.476E6	49.233
Benzo[k]fluoranthene	17.335	1703	Identified	1.490E6	49.517
Benzo[a]pyrene	17.812	1751	Identified	1.430E6	50.438
Indeno[1,2,3-cd]pyrene	19.946	1969	Identified	913664	50.564
Dibenz[a,h]anthracene	19.983	1973	Identified	728570	48.403
Benzo[g,h,i]perylene	20.575	2034	Identified	850557	48.351

****
Revision Log
****

9/8/2014 10:25 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccvb	189625	5.18	614061	6.90	290805	9.49	533318	11.74	567262	15.76	724958	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 9/9/14

9.9.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\090814\50ppm ccvb.SMS Lab Sample ID: 50ppm ccvb

Instrument ID: ELMO Date Analyzed: 9/8/2014 Time Analyzed: 10:32

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	189625	5.18	614061	6.90	290805	9.49	533318	11.74	567262	15.76	724958	17.91
UPPER LIMIT	379250	5.68	1.228E6	7.40	581610	9.99	1.067E6	12.24	1.135E6	16.26	1.450E6	18.41
LOWER LIMIT	94813	4.68	307031	6.40	145403	8.99	266659	11.24	283631	15.26	362479	17.41
EPA SAMPLE NO												
50ppm ccv	213158	5.17	679716	6.90	291680	9.49	624472	11.74	647475	15.76	829049	17.91
mb-15158	103902	5.18	337813	6.90	162586	9.49	307439	11.74	369531	15.76	368042	17.91
lcs-15158	113898	5.18	348888	6.90	161404	9.49	323245	11.74	411386	15.75	416185	17.90
1409219-00	112545	5.18	374379	6.90	177577	9.50	348739	11.75	408613	15.76	456095	17.91
1409219-00	106026	5.17	365037	6.89	159400	9.49	317270	11.74	330669	15.75	375787	17.90
1409219-00	93954 *	5.18	310300	6.90	137362 *	9.50	285084	11.75	321337	15.76	347504 *	17.91
1409219-00	94854	5.18	312879	6.90	140071 *	9.49	310410	11.74	366763	15.75	420157	17.91
1409219-00	94994	5.18	309102	6.90	141388 *	9.49	307933	11.74	342827	15.75	422433	17.91
1409219-00	105013	5.19	347741	6.91	168424	9.50	339587	11.75	405049	15.77	496552	17.92
1409219-00	94104 *	5.18	311139	6.90	147760	9.50	305393	11.74	357301	15.76	392819	17.91
1409219-00	89144 *	5.18	303149 *	6.90	149733	9.50	275852	11.75	297705	15.76	336800 *	17.91
1409275-00	64042 D	5.19 D	280240 D	6.92 D	180195	9.51	308705	11.75	359505	15.76	382016	17.91
1409275-00	86585 D	5.18 D	327544 D	6.91 D	168291	9.50	301105	11.74	333536	15.76	348151 *	17.91
1409275-00	81646 *	5.18	266780 *	6.90	119569 *	9.49	232346 *	11.74	268716 *	15.75	308284 *	17.91
1409275-00	88276 *	5.18	300541 *	6.91	140658 *	9.50	257260 *	11.75	294430	15.76	327692 *	17.92
1409275-00	88831 *	5.18	296892 *	6.90	132547 *	9.50	253267 *	11.75	281330 *	15.76	323998 *	17.91
1409275-01	80038 *	5.18	282658 *	6.90	131039 *	9.49	226197 *	11.74	264564 *	15.75	316112 *	17.90

* NMR

dlm 9/9/14

9.9.14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1409219-00	90756 *	5.18	313097	6.90	155077	9.50	292206	11.74	327054	15.76	387554	17.91
1409275-01	97988	5.18	319960	6.90	154392	9.49	290073	11.74	326237	15.75	382498	17.90
1409275-00	74516 *	5.18	255330 *	6.89	114886 *	9.49	208638 *	11.74	244379 *	15.75	300794 *	17.90
1409219-00	68072 *	5.18	274560 D	6.90 D	144525 *	9.50	233370 *	11.74	242162 *	15.76	290451 *	17.90
1409219-00	81899 *	5.18	279110 *	6.90	125523 *	9.50	231611 *	11.74	252223 *	15.76	325431 *	17.91
1409275-00	75835 *	5.18	263106 *	6.90	121603 *	9.50	232734 *	11.74	264335 *	15.76	321877 *	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

* NMR

dam 9/9/14

JL 9.9.14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/8/2014 Time: 10:32

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccvb.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.366	0.050	50.00	55.85	-11.7	40.0	PASS	PASS
Pyridine	10.780	0.050	50.00	59.43	-18.9	40.0	PASS	PASS
2-Fluorophenol	1.127	0.050	50.00	49.11	1.8	40.0	PASS	PASS
Phenol-d5	1.133	0.050	50.00	51.87	-3.7	40.0	PASS	PASS
Phenol	1.147	0.050	50.00	46.73	6.5	20.0	PASS	PASS
Aniline	3.160	0.050	50.00	38.61	22.8	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.881	0.050	50.00	46.66	6.7	40.0	PASS	PASS
2-Chlorophenol	1.190	0.050	50.00	49.73	0.5	40.0	PASS	PASS
1,3-Dichlorobenzene	1.445	0.050	50.00	47.90	4.2	40.0	PASS	PASS
1,4-Dichlorobenzene	1.410	0.050	50.00	49.40	1.2	20.0	PASS	PASS
Benzyl alcohol	1.100	0.050	50.00	49.01	2.0	40.0	PASS	PASS
1,2-Dichlorobenzene	1.471	0.050	50.00	52.34	-4.7	40.0	PASS	PASS
2-Methylphenol	0.955	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.283	0.050	50.00	45.63	8.7	40.0	PASS	PASS
3+4-Methylphenol	1.035	0.050	50.00	42.01	16.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.342	0.050	50.00	47.20	5.6	40.0	PASS	PASS
Hexachloroethane	4.693	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Nitrobenzene-d5	0.292	0.050	50.00	47.33	5.3	40.0	PASS	PASS
Nitrobenzene	0.306	0.050	50.00	48.22	3.6	40.0	PASS	PASS
Isophorone	0.609	0.050	50.00	52.05	-4.1	40.0	PASS	PASS
2-Nitrophenol	0.317	0.050	50.00	51.16	-2.3	20.0	PASS	PASS
2,4-Dimethylphenol	0.342	0.050	50.00	46.81	6.4	40.0	PASS	PASS
Benzoic acid	2.591	0.050	50.00	58.70	-17.4	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.375	0.050	50.00	51.73	-3.5	40.0	PASS	PASS
2,4-Dichlorophenol	0.339	0.050	50.00	48.02	4.0	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.329	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
Naphthalene	0.842	0.050	50.00	50.74	-1.5	40.0	PASS	PASS
4-Chloroaniline	0.377	0.050	50.00	48.80	2.4	40.0	PASS	PASS
Hexachlorobutadiene	0.633	0.050	50.00	47.56	4.9	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.424	0.050	50.00	50.61	-1.2	20.0	PASS	PASS
2-Methylnaphthalene	0.231	0.050	50.00	45.84	8.3	40.0	PASS	PASS
1-Methylnaphthalene	0.238	0.050	50.00	46.33	7.3	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.413	0.050	50.00	41.12	17.8	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.325	0.050	50.00	45.32	9.4	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.307	0.050	50.00	46.14	7.7	40.0	PASS	PASS
2-Fluorobiphenyl	1.448	0.050	50.00	47.24	5.5	40.0	PASS	PASS

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Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.560	0.050	50.00	49.83	0.3	40.0	PASS	PASS
2-Nitroaniline	1.068	0.050	50.00	47.89	4.2	40.0	PASS	PASS
Dimethyl phthalate	2.970	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
2,6-Dinitrotoluene	0.673	0.050	50.00	48.78	2.4	40.0	PASS	PASS
Acenaphthylene	1.834	0.050	50.00	47.06	5.9	40.0	PASS	PASS
3-Nitroaniline	1.025	0.050	50.00	47.10	5.8	40.0	PASS	PASS
Acenaphthene	1.219	0.050	50.00	48.25	3.5	20.0	PASS	PASS
2,4-Dinitrophenol	2.786	0.050	50.00	64.96	-29.9	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.29	-2.6	40.0	PASS	PASS
Dibenzofuran	0.789	0.050	50.00	42.97	14.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.331	0.050	50.00	44.78	10.4	40.0	PASS	PASS
Diethyl phthalate	2.351	0.050	50.00	46.46	7.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.713	0.050	50.00	42.70	14.6	40.0	PASS	PASS
Fluorene	2.292	0.050	50.00	44.14	11.7	40.0	PASS	PASS
4-Nitroaniline	1.837	0.050	50.00	47.57	4.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.728	0.050	50.00	68.38	-36.8	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.678	0.050	50.00	50.90	-1.8	20.0	PASS	PASS
Azobenzene	0.971	0.050	50.00	51.76	-3.5	40.0	PASS	PASS
2,4,6-Tribromophenol	1.727	0.050	50.00	52.10	-4.2	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.520	0.050	50.00	50.97	-1.9	40.0	PASS	PASS
Hexachlorobenzene	0.547	0.050	50.00	49.51	1.0	40.0	PASS	PASS
Pentachlorophenol	1.651	0.050	50.00	57.69	-15.4	20.0	PASS	PASS
Phenanthrene	0.974	0.050	50.00	50.64	-1.3	40.0	PASS	PASS
Anthracene	1.031	0.050	50.00	52.94	-5.9	40.0	PASS	PASS
Carbazole	0.906	0.050	50.00	47.75	4.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.060	0.050	50.00	51.28	-2.6	40.0	PASS	PASS
Fluoranthene	0.897	0.050	50.00	48.15	3.7	20.0	PASS	PASS
Benzidine	0.344	0.050	50.00	31.84	36.3	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.195	0.050	50.00	49.80	0.4	40.0	PASS	PASS
Butyl benzyl phthalate	0.950	0.050	50.00	50.09	-0.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.975	0.050	50.00	50.91	-1.8	40.0	PASS	PASS
Benz[a]anthracene	1.640	0.050	50.00	45.36	9.3	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.948	0.050	50.00	40.02	20.0	40.0	PASS	PASS
Chrysene	2.011	0.050	50.00	48.47	3.1	40.0	PASS	PASS
Di-n-octyl phthalate	2.538	0.050	50.00	53.22	-6.4	20.0	PASS	PASS
Benzo(b)fluoranthene	1.313	0.050	50.00	45.45	9.1	40.0	PASS	PASS
Benzo[k]fluoranthene	1.395	0.050	50.00	48.05	3.9	40.0	PASS	PASS
Benzo[a]pyrene	1.345	0.050	50.00	49.21	1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.845	0.050	50.00	48.61	2.8	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.669	0.050	50.00	46.08	7.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.835	0.050	50.00	49.19	1.6	40.0	PASS	PASS

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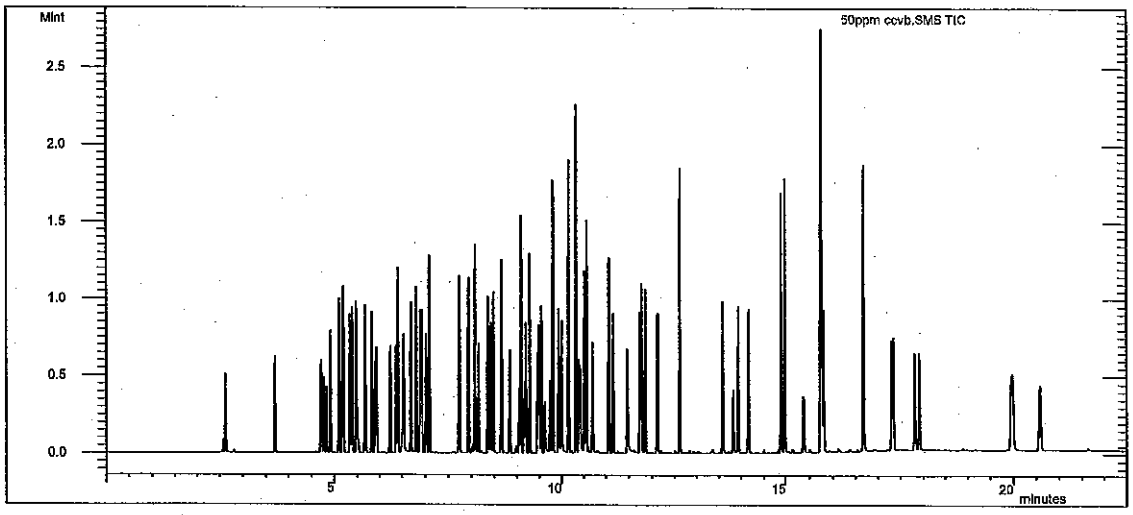
8270C Report

Sample Name:	50ppm ccvb	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/8/2014 10:32:38 AM
Calculation Date:	9/8/2014 10:55:08 AM				



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Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.176	438	Identified	189625	40.000
Naphthalene-d8 (I.S)	6.897	618	Identified	614061	40.000
Acenaphthene-d10 (I.S)	9.494	891	Identified	290805	40.000
Phenanthrene-d10	11.742	1126	Identified	533318	40.000
Chrysene-d12 I.S	15.761	1548	Identified	567262	40.000
Perylene-d12 I.S	17.909	1770	Identified	724958	40.000
N-nitrosodimethylamine	2.585	163	Identified	797858	55.851
Pyridine	2.630	168	Identified	2.555E6	59.434
2-Fluorophenol	3.699	282	Identified	267070	49.111
Phenol-d5	4.705	389	Identified	268525	51.869
Phenol	4.721	391	Identified	271900	46.726
Aniline	4.775	396	Identified	749078	38.612
Bis(2-chloroethyl)ether	4.830	402	Identified	445963	46.662
2-Chlorophenol	4.918	411	Identified	282021	49.728
1,3-Dichlorobenzene	5.106	431	Identified	342420	47.897
1,4-Dichlorobenzene	5.196	440	Identified	334223	49.400
Benzyl alcohol	5.340	455	Identified	260676	49.008
1,2-Dichlorobenzene	5.394	461	Identified	348656	52.338
2-Methylphenol	5.480	470	Identified	226307	48.917
Bis(2-chloroisopropyl)ether	5.499	472	Identified	304177	45.631
3+4-Methylphenol	5.684	491	Identified	245308	42.014
N-Nitrosodi-n-propylamine	5.674	490	Identified	792224	47.200
Hexachloroethane	5.831	507	Identified	1.112E6	50.652
Nitrobenzene-d5	5.905	515	Identified	224174	47.331

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Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.930	517	Identified	234834	48.218
Isophorone	6.236	550	Identified	467822	52.046
2-Nitrophenol	6.363	563	Identified	243674	51.157
2,4-Dimethylphenol	6.411	568	Identified	262266	46.811
Benzoic acid	6.519	579	Identified	1.989E6	58.698
Bis(2-chloroethoxy)methane	6.539	581	Identified	287463	51.727
2,4-Dichlorophenol	6.699	598	Identified	260543	48.024
1,2,4-Trichlorobenzene	6.813	610	Identified	252386	50.300
Naphthalene	6.929	622	Identified	646599	50.737
4-Chloroaniline	7.017	631	Identified	289760	48.797
Hexachlorobutadiene	7.087	638	Identified	485546	47.558
4-Chloro-3-methylphenol	7.728	706	Identified	325602	50.608
2-Methylnaphthalene	7.933	728	Identified	177258	45.839
1-Methylnaphthalene	8.079	743	Identified	182421	46.329
Hexachlorocyclopentadiene	8.155	751	Identified	316862	41.120
2,4,6-Trichlorophenol	8.362	773	Identified	117985	45.321
2,4,5-Trichlorophenol	8.418	779	Identified	111444	46.135
2-Fluorobiphenyl	8.478	785	Identified	526441	47.244
2-Chloronaphthalene	8.660	804	Identified	566899	49.831
2-Nitroaniline	8.838	823	Identified	388268	47.886
Dimethyl phthalate	9.094	849	Identified	1.080E6	51.612
2,6-Dinitrotoluene	9.200	860	Identified	244729	48.782
Acenaphthylene	9.283	869	Identified	666655	47.060
3-Nitroaniline	9.459	888	Identified	372591	47.096
Acenaphthene	9.544	897	Identified	443133	48.249
2,4-Dinitrophenol	9.611	904	Identified	1.013E6	64.956
4-Nitrophenol	9.740	917	Identified	72082	51.288
Dibenzofuran	9.802	923	Identified	286970	42.967
2,4-Dinitrotoluene	9.805	924	Identified	120155	44.775
Diethyl phthalate	10.152	960	Identified	854436	46.464
4-Chlorophenyl phenyl ether	10.318	977	Identified	259284	42.696
Fluorene	10.320	977	Identified	833299	44.137
4-Nitroaniline	10.387	984	Identified	667650	47.570
4,6-Dinitro-2-methylphenol	10.419	988	Identified	1.152E6	68.384
N-Nitrosodiphenylamine	10.509	997	Identified	452175	50.900
Azobenzene	10.560	1002	Identified	647091	51.762
2,4,6-Tribromophenol	10.694	1016	Identified	1.151E6	52.105
4-Bromophenyl phenyl ether	11.060	1055	Identified	346852	50.970
Hexachlorobenzene	11.149	1064	Identified	364853	49.511
Pentachlorophenol	11.464	1097	Identified	1.101E6	57.690
Phenanthrene	11.778	1130	Identified	649220	50.639
Anthracene	11.854	1138	Identified	687237	52.939
Carbazole	12.120	1166	Identified	603918	47.746
Di-n-butyl phthalate	12.620	1218	Identified	1.373E6	51.280
Fluoranthene	13.584	1320	Identified	597930	48.150
Benzidine	13.814	1344	Identified	244089	31.838
Pyrene	13.930	1356	Identified	595597	50.297
4-Terphenyl-d14	14.164	1380	Identified	847462	49.803
Butyl benzyl phthalate	14.902	1458	Identified	673467	50.093
3,3'-Dichlorobenzidine	15.730	1545	Identified	1.400E6	50.913

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.745	1546	Identified	1.163E6	45.357
Bis(2-ethylhexyl)phthalate	15.742	1546	Identified	672486	40.024
Chrysene	15.799	1552	Identified	1.426E6	48.470
Di-n-octyl phthalate	16.674	1643	Identified	1.800E6	53.224
Benzo(b)fluoranthene	17.296	1707	Identified	1.190E6	45.447
Benzo[k]fluoranthene	17.336	1711	Identified	1.264E6	48.054
Benzo[a]pyrene	17.813	1760	Identified	1.219E6	49.205
Indeno[1,2,3-cd]pyrene	19.951	1981	Identified	765613	48.614
Dibenz[a,h]anthracene	19.987	1985	Identified	606008	46.075
Benzo[g,h,i]perylene	20.580	2046	Identified	756985	49.191

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Revision Log
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9/8/2014 10:55 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 042514.mth'
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Varian Star Workstation - 8400 SampleList Tue Sep 09 13:23:53 2014

SampleList: C:\VarianWS\090914.smp

Created: Tue Sep 09 08:47:36 2014
Modified: Tue Sep 09 13:23:22 2014

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Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm ll ccv	1	below	1	1.0
	Notes sv110-0562				
3	40ppm ccv	1	below	2	1.0
	Notes sv110-0593				
4	40ppm ccvb	1	below	2	1.0
	Notes sv110-0593				
5	1409219-009a	1	below	3	1.0
	Notes x1 soil				
6	1409219-004a	1	below	4	1.0
	Notes x1 soil				
7	1409275-002a	1	below	5	1.0
	Notes x1 soil				
8	1409275-001a	1	below	6	1.0
	Notes r10 soil				
9					
10	mb-15163	1	below	7	1.0
	Notes x1 soil ll				
11	lcs-15163	1	below	8	1.0
	Notes x1 soil ll				
12	1409275-007a	1	below	9	1.0
	Notes x1 soil ll				
13	1409275-007ams	1	below	10	1.0
	Notes x1 soil ll				
14	1409275-007amsd	1	below	11	1.0
	Notes x1 soil ll				
15	1409275-008a	1	below	12	1.0
	Notes x1 soil ll				
16					
17	mb-15185	1	below	13	1.0
	Notes x1 AQ				
18	lcs-15185	1	below	14	1.0
	Notes x1 AQ				
19	lcsd-15185	1	below	15	1.0
	Notes x1 AQ				
20	1409143-001e	1	below	16	1.0
	Notes x1 AQ				
21	1409143-002e	1	below	17	1.0
	Notes x1 AQ				
22					

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Directory for Data Files: C:\VarianWS\data

Data File Names: %s

9.10.14

Create and update a new RecalcList: c:\varianws\090914.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

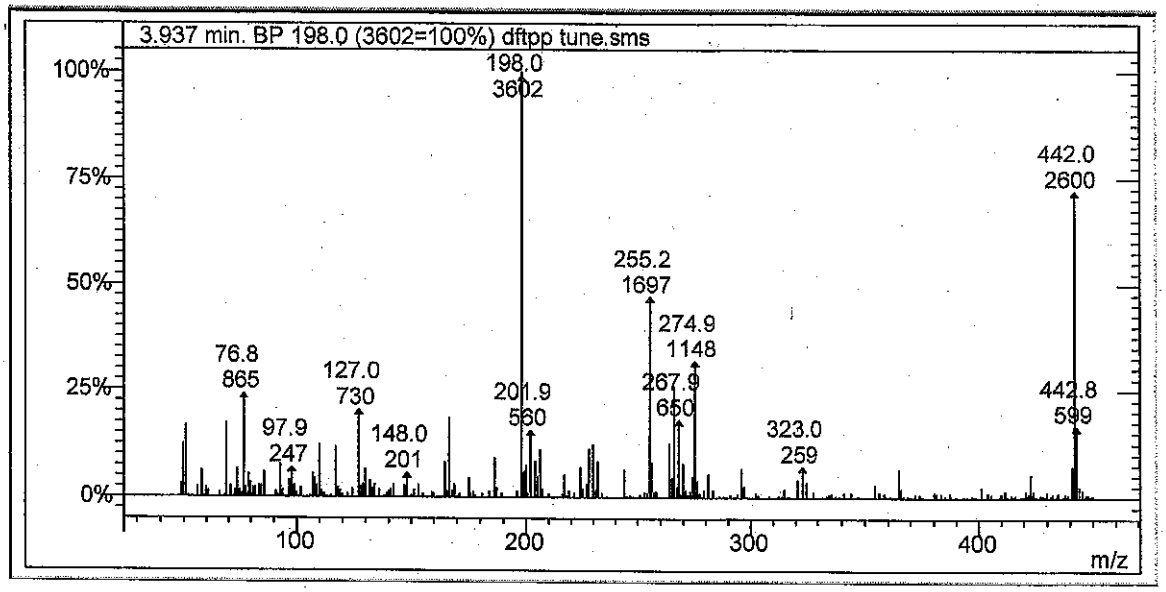
Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/9/2014

Injection Time: 11:29

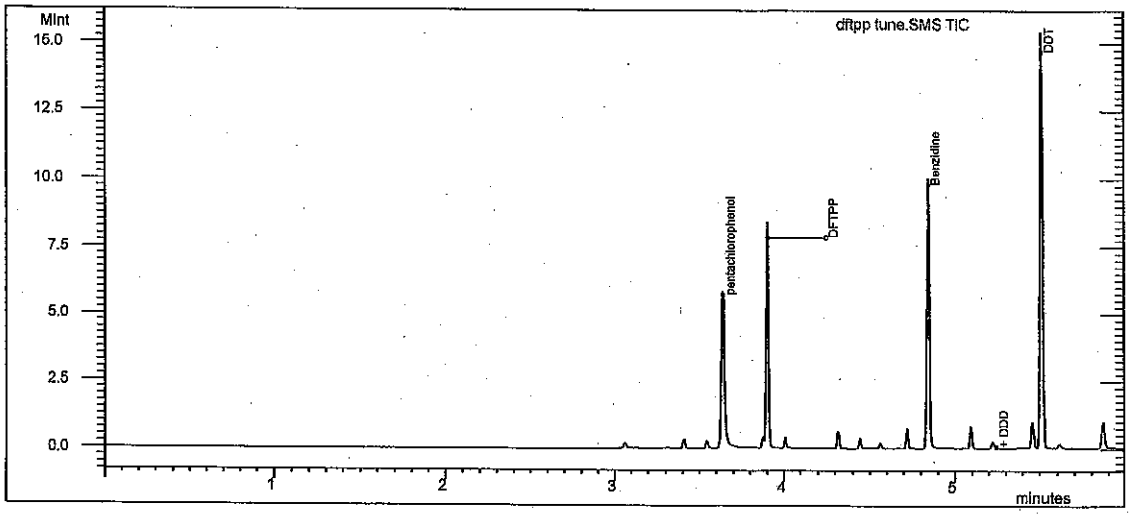
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	16.60	PASS
68	<2% of m/z 69	1.94	PASS
69	Present	17.13	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	20.27	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.94	PASS
275	10-60% of base peak	31.87	PASS
365	>1% of base peak	6.61	PASS
441	Present and <m/z 443	44.24	PASS
442	>50% of m/z 198	72.18	PASS
443	15-24% of m/z 442	23.04	PASS

dam 9/10/14

JV 9/11/14

Degradation Report

Acquisition Date:	9/9/2014 11:29:37 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.512	3.999E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.245	8162	5
DDE	4.963	1193	6

% Degradation of DDT: = .233

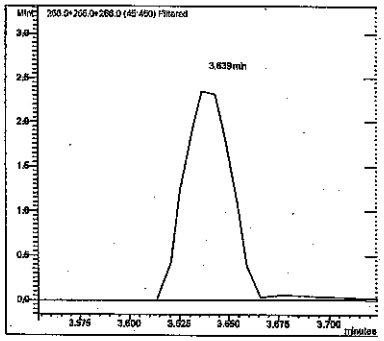
dam 9/10/14

JC 9-10-14

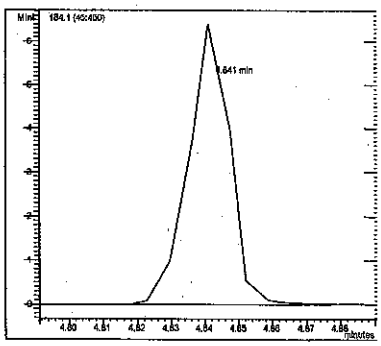
Tailing and Gaussian Factor Report

Acquisition Date: 9/9/2014 11:29:37 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.639 Area = 4.002E6



Benzidine
RT = 4.841 Area = 5.423E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.639	1.570	0.888
Benzidine	4.841	0.790	0.985

ddm 9/10/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.639	4.002E6
3	Benzidine	4.841	5.423E6

JC 9-10-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm ll c	171478	2.94	563724	4.27	235306	6.73	419871	9.02	381512	13.17	495172	15.40

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dmm 9/10/14

JV 9-10-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\090914\10ppm II ccv.SMS Lab Sample ID: 10ppm II ccv

Instrument ID: ELMO Date Analyzed: 9/9/2014 Time Analyzed: 11:42

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	171478	2.94	563724	4.27	235306	6.73	419871	9.02	381512	13.17	495172	15.40
UPPER LIMIT	342956	3.44	1.127E6	4.77	470612	7.23	839742	9.52	763024	13.67	990344	15.90
LOWER LIMIT	85739	2.44	281862	3.77	117653	6.23	209936	8.52	190756	12.67	247586	14.90
EPA SAMPLE NO												
mb-15163	101220	2.96	318143	4.28	137140	6.74	284218	9.03	300237	13.17	415935	15.40
lcs-15163	105325	2.95	346238	4.28	154311	6.73	298641	9.02	286234	13.16	408233	15.40
1409275-00	105836	2.96	352663	4.28	149746	6.73	290673	9.02	302190	13.17	431964	15.40
1409275-00	105255	2.96	354126	4.28	157962	6.74	318147	9.03	300471	13.17	427834	15.40
1409275-00	112698	2.95	362111	4.28	151077	6.74	304561	9.02	290790	13.17	435791	15.40
1409275-00	112085	2.95	371258	4.28	159075	6.74	321345	9.03	336298	13.17	473950	15.40

dam 9/10/14

JC 9-10-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll ccv.sms **Acquisition Date:** 9/9/2014 11:42

Comment: sv110-0562

SampleID: 10ppm ll ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.70	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.43	ng	10.00	94 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.34		10.00	93 %	80 - 120	PASS
6)	Acenaphthylene	9.57	ng	10.00	96 %	80 - 120	PASS
8)	Acenaphthene	9.56	ng	10.00	96 %	80 - 120	PASS
9)	n-hexadecane	65.77		67.50	97 %	80 - 120	PASS
10)	Fluorene	9.67	ng	10.00	97 %	80 - 120	PASS
12)	Phenanthrene	9.30	ng	10.00	93 %	80 - 120	PASS
13)	Anthracene	9.53	ng	10.00	95 %	80 - 120	PASS
14)	Fluoranthene	9.69	ng	10.00	97 %	80 - 120	PASS
15)	Pyrene	9.70	ng	10.00	97 %	80 - 120	PASS
16)	Benz[a]anthracene	9.35	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.47	ng	10.00	95 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.87	ng	10.00	99 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	10.25	ng	10.00	103 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.63		15.00	104 %	80 - 120	PASS
22)	Benzo[a]pyrene	10.13	ng	10.00	101 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.61	ng	10.00	96 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.29	ng	10.00	103 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.54	ng	10.00	95 %	80 - 120	PASS

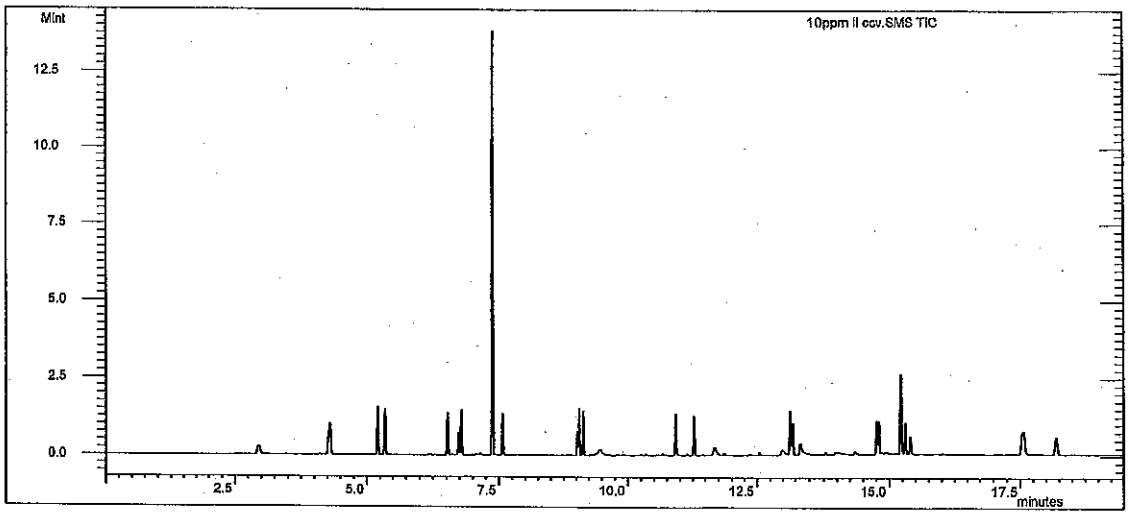
*. indicates Internal Standard.

dlm 9/10/14

JC 9-10-14

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	9/9/2014 11:42:48 AM
Calculation Date:	9/9/2014 12:02:18 PM				



dan
9/10/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.944	198	Identified	171478	5.000
Naphthalene-d8 (I.S)	4.274	337	Identified	563724	5.000
Acenaphthene-d10 (I.S)	6.734	594	Identified	235306	5.000
Phenanthrene-d10	9.021	833	Identified	419871	5.000
Chrysene-d12 I.S	13.167	1262	Identified	381512	5.000
Perylene-d12 I.S	15.401	1488	Identified	495172	5.000
Naphthalene	4.302	340	Identified	973339	9.696
2-Methylnaphthalene	5.205	434	Identified	634671	9.432
1-Methylnaphthalene	5.349	449	Identified	808627	9.339
Acenaphthylene	6.523	572	Identified	934429	9.566
Acenaphthene	6.785	599	Identified	1.103E6	9.555
n-hexadecane	7.377	661	Identified	3.185E6	65.768
Fluorene	7.567	680	Identified	1.215E6	9.669
Phenanthrene	9.057	837	Identified	827508	9.304
Anthracene	9.137	845	Identified	844212	9.529
Fluoranthene	10.922	1030	Identified	824015	9.693
Pyrene	11.278	1067	Identified	826304	9.701
Benz[a]anthracene	13.152	1260	Identified	1.210E6	9.350
Chrysene	13.208	1266	Identified	583059	9.472
Benzo(b)fluoranthene	14.760	1423	Identified	914239	9.874
Benzo[k]fluoranthene	14.802	1427	Identified	1.050E6	10.251
Benzo(e)pyrene	15.219	1469	Identified	2.340E6	15.632
Benzo[a]pyrene	15.303	1478	Identified	1.035E6	10.126
Indeno[1,2,3-cd]pyrene	17.541	1703	Identified	1.294E6	9.607

TC
9.12.14

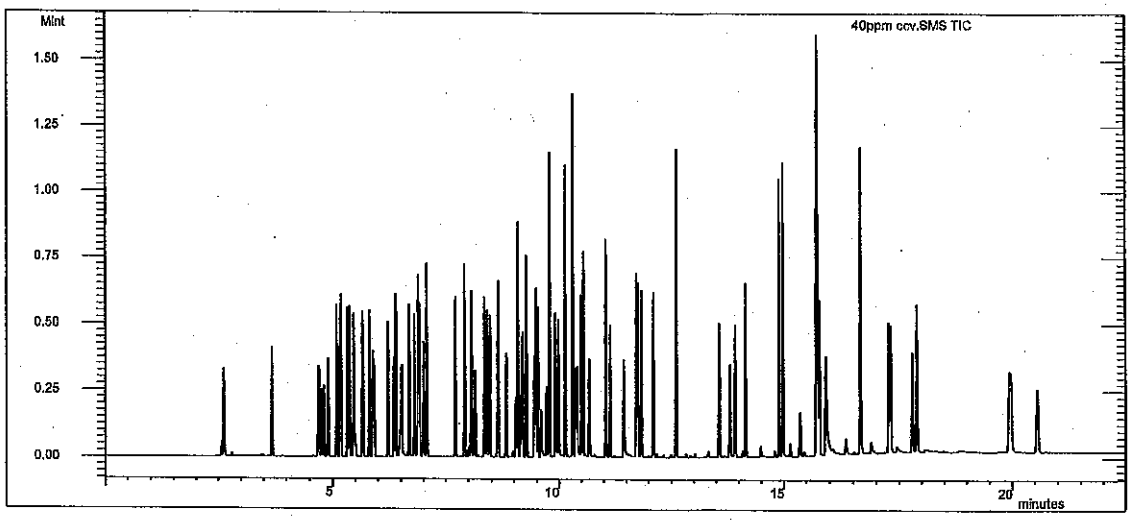
Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.575	1707	Identified	973275	10.288
Benzo[g,h,i]perylene	18.192	1769	Identified	1.056E6	9.538

```
**********************************************************
Revision Log
**********************************************************

9/9/2014 12:02 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 033114.mth'
```

8270C Report

Sample Name:	40ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	9/9/2014 12:10:50 PM
Calculation Date:	9/9/2014 12:33:21 PM				



RR

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.158	438	Identified	130496	40.000
Naphthalene-d8 (I.S)	6.878	618	Identified	431768	40.000
Acenaphthene-d10 (I.S)	9.478	893	Identified	209214	40.000
Phenanthrene-d10	11.723	1128	Identified	383131	40.000
Chrysene-d12 I.S	15.742	1551	Identified	428794	40.000
Perylene-d12 I.S	17.893	1773	Identified	535797	40.000
N-nitrosodimethylamine	2.574	162	Identified	544683	55.308
Pyridine	2.620	167	Identified	1.654E6	55.747
2-Fluorophenol	3.686	281	Identified	154553	41.286
Phenol-d5	4.686	388	Identified	146428	41.179
Phenol	4.703	390	Identified	156472	38.957
Aniline	4.759	396	Identified	443476	33.257
Bis(2-chloroethyl)ether	4.811	401	Identified	257987	38.781
2-Chlorophenol	4.902	411	Identified	149990	38.447
1,3-Dichlorobenzene	5.087	430	Identified	197645	40.003
1,4-Dichlorobenzene	5.180	440	Identified	193889	41.532
Benzyl alcohol	5.322	455	Identified	152272	41.220
1,2-Dichlorobenzene	5.374	460	Identified	190054	41.228
2-Methylphenol	5.460	469	Identified	129548	40.654
Bis(2-chloroisopropyl)ether	5.480	471	Identified	176305	38.478
3+4-Methylphenol	5.665	491	Identified	151224	37.332
N-Nitrosodi-n-propylamine	5.657	490	Identified	476370	41.187
Hexachloroethane	5.812	506	Identified	631000	41.716
Nitrobenzene-d5	5.886	514	Identified	134511	40.096

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.913	516	Identified	138279	39.987
Isophorone	6.217	549	Identified	283697	44.859
2-Nitrophenol	6.347	563	Identified	136371	40.630
2,4-Dimethylphenol	6.392	567	Identified	158903	40.298
Benzoic acid	6.492	578	Identified	1.103E6	47.850
Bis(2-chloroethoxy)methane	6.521	581	Identified	168341	43.105
2,4-Dichlorophenol	6.679	597	Identified	158484	41.567
1,2,4-Trichlorobenzene	6.795	609	Identified	140456	39.625
Naphthalene	6.909	621	Identified	384575	42.881
4-Chloroaniline	6.998	631	Identified	160439	38.853
Hexachlorobutadiene	7.069	638	Identified	292411	40.680
4-Chloro-3-methylphenol	7.709	707	Identified	184724	40.829
2-Methylnaphthalene	7.913	728	Identified	105246	38.662
1-Methylnaphthalene	8.063	744	Identified	106425	38.392
Hexachlorocyclopentadiene	8.138	752	Identified	177116	32.547
2,4,6-Trichlorophenol	8.343	773	Identified	69729	37.415
2,4,5-Trichlorophenol	8.399	779	Identified	59290	34.200
2-Fluorobiphenyl	8.460	785	Identified	300796	37.722
2-Chloronaphthalene	8.642	805	Identified	317014	38.818
2-Nitroaniline	8.819	824	Identified	222463	38.135
Dimethyl phthalate	9.076	851	Identified	611378	40.566
2,6-Dinitrotoluene	9.181	862	Identified	139292	38.620
Acenaphthylene	9.265	870	Identified	393597	38.638
3-Nitroaniline	9.441	889	Identified	213359	37.548
Acenaphthene	9.526	898	Identified	259381	39.259
2,4-Dinitrophenol	9.593	905	Identified	593154	55.151
4-Nitrophenol	9.756	922	Failed	82	1.248
Dibenzofuran	9.786	925	Identified	172160	35.887
2,4-Dinitrotoluene	9.787	925	Identified	71048	36.770
Diethyl phthalate	10.133	961	Identified	505701	37.673
4-Chlorophenyl phenyl ether	10.301	979	Identified	147858	33.461
Fluorene	10.302	979	Identified	497615	36.778
4-Nitroaniline	10.366	985	Identified	397692	39.506
4,6-Dinitro-2-methylphenol	10.400	989	Identified	663256	57.315
N-Nitrosodiphenylamine	10.490	998	Identified	250400	39.575
Azobenzene	10.543	1004	Identified	370608	41.191
2,4,6-Tribromophenol	10.675	1018	Identified	678767	42.850
4-Bromophenyl phenyl ether	11.040	1056	Identified	199703	40.781
Hexachlorobenzene	11.131	1066	Identified	211747	39.900
Pentachlorophenol	11.444	1099	Identified	650152	48.351
Phenanthrene	11.759	1132	Identified	394616	42.838
Anthracene	11.836	1140	Identified	403616	43.340
Carbazole	12.101	1168	Identified	368205	40.567
Di-n-butyl phthalate	12.603	1221	Identified	847491	43.727
Fluoranthene	13.564	1322	Identified	351670	39.493
Benzidine	13.798	1347	Identified	209083	35.763
Pyrene	13.912	1359	Identified	341714	39.352
4-Terphenyl-d14	14.146	1383	Identified	511777	40.222
Butyl benzyl phthalate	14.886	1461	Identified	431209	42.503
3,3'-Dichlorobenzidine	15.711	1548	Identified	789610	39.776

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.727	1549	Identified	706930	36.836
Bis(2-ethylhexyl)phthalate	15.727	1549	Identified	416697	33.047
Chrysene	15.782	1555	Identified	837938	38.244
Di-n-octyl phthalate	16.659	1646	Identified	1.069E6	42.450
Benzo(b)fluoranthene	17.280	1710	Identified	818297	42.322
Benzo[k]fluoranthene	17.355	1718	Identified	25	0.731
Benzo[a]pyrene	17.796	1763	Identified	764351	42.048
Indeno[1,2,3-cd]pyrene	19.931	1984	Identified	467248	40.705
Dibenz[a,h]anthracene	19.970	1988	Identified	412536	42.495
Benzo[g,h,i]perylene	20.558	2048	Identified	450685	39.838

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Revision Log
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9/9/2014 12:33 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
40ppm ccvb	122888	5.16	431252	6.88	211377	9.48	364604	11.73	414557	15.75	512656	17.89

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dmm 9/10/14

JC 9-10-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\090914\40ppm ccvb.SMS Lab Sample ID: 40ppm ccvb

Instrument ID: ELMO Date Analyzed: 9/9/2014 Time Analyzed: 12:45

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	122888	5.16	431252	6.88	211377	9.48	364604	11.73	414557	15.75	512656	17.89
UPPER LIMIT	245776	5.66	862504	7.38	422754	9.98	729208	12.23	829114	16.25	1.025E6	18.39
LOWER LIMIT	61444	4.66	215626	6.38	105689	8.98	182302	11.23	207279	15.25	256328	17.39
EPA SAMPLE NO												
40ppm ccv	130496	5.16	431768	6.88	209214	9.48	383131	11.72	428794	15.74	535797	17.89
1409219-00	79270	5.16	293330 D	6.88 D	162285	9.48	275649	11.72	310328	15.74	347546	17.89
1409219-00	87393	5.16	281549	6.88	115062	9.48	236650	11.72	288486	15.74	325567	17.89
1409275-00	84801	5.17	291043	6.89	123472	9.48	240529	11.73	281344	15.75	325855	17.90
1409275-00	86259	5.16	318067 D	6.89 D	148370	9.48	273329	11.73	289952	15.74	330777	17.89
mb-15185	85187	5.16	300088	6.88	126773	9.48	266572	11.72	319417	15.74	345738	17.89
lcs-15185	90146	5.16	301255	6.88	138378	9.48	258626	11.73	313746	15.74	354532	17.89
lcsd-15185	86516	5.16	272572	6.88	120477	9.48	243703	11.73	289210	15.74	345499	17.89
1409143-00	75677	5.16	261232	6.88	120871	9.48	225569	11.72	279899	15.74	323763	17.89
1409143-00	80582	5.16	267676	6.88	116779	9.47	248313	11.72	295955	15.74	357222	17.89

dam 9/10/14

JC 9-12-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/9/2014 Time: 12:45

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\40ppm ccvb.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	4.357	0.050	40.00	58.28	-45.7	40.0	FAIL	PASS
Pyridine	12.670	0.050	40.00	55.71	-39.3	40.0	PASS	PASS
2-Fluorophenol	1.236	0.050	40.00	43.10	-7.7	40.0	PASS	PASS
Phenol-d5	1.107	0.050	40.00	40.62	-1.6	40.0	PASS	PASS
Phenol	1.263	0.050	40.00	41.06	-2.6	20.0	PASS	PASS
Aniline	3.550	0.050	40.00	34.72	13.2	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.116	0.050	40.00	41.69	-4.2	40.0	PASS	PASS
2-Chlorophenol	1.264	0.050	40.00	42.28	-5.7	40.0	PASS	PASS
1,3-Dichlorobenzene	1.506	0.050	40.00	39.78	0.5	40.0	PASS	PASS
1,4-Dichlorobenzene	1.559	0.050	40.00	43.60	-9.0	20.0	PASS	PASS
Benzyl alcohol	1.171	0.050	40.00	41.38	-3.5	40.0	PASS	PASS
1,2-Dichlorobenzene	1.517	0.050	40.00	42.98	-7.4	40.0	PASS	PASS
2-Methylphenol	1.047	0.050	40.00	42.87	-7.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.458	0.050	40.00	41.50	-3.8	40.0	PASS	PASS
3+4-Methylphenol	1.201	0.050	40.00	38.80	3.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.729	0.050	40.00	42.09	-5.2	40.0	PASS	PASS
Hexachloroethane	5.001	0.050	40.00	43.15	-7.9	40.0	PASS	PASS
Nitrobenzene-d5	0.306	0.050	40.00	39.33	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	40.00	39.64	0.9	40.0	PASS	PASS
Isophorone	0.631	0.050	40.00	43.07	-7.7	40.0	PASS	PASS
2-Nitrophenol	0.317	0.050	40.00	40.83	-2.1	20.0	PASS	PASS
2,4-Dimethylphenol	0.376	0.050	40.00	41.13	-2.8	40.0	PASS	PASS
Benzoic acid	2.424	0.050	40.00	45.74	-14.3	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.390	0.050	40.00	43.11	-7.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.356	0.050	40.00	40.33	-0.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.328	0.050	40.00	39.96	0.1	40.0	PASS	PASS
Naphthalene	0.878	0.050	40.00	42.25	-5.6	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	40.00	39.53	1.2	40.0	PASS	PASS
Hexachlorobutadiene	0.654	0.050	40.00	39.30	1.8	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.463	0.050	40.00	44.19	-10.5	20.0	PASS	PASS
2-Methylnaphthalene	0.247	0.050	40.00	39.13	2.2	40.0	PASS	PASS
1-Methylnaphthalene	0.255	0.050	40.00	39.78	0.6	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.415	0.050	40.00	32.94	17.6	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.334	0.050	40.00	37.48	6.3	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.294	0.050	40.00	35.51	11.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.487	0.050	40.00	38.99	2.5	40.0	PASS	PASS

RR hits

dam 9/10/14

JC 9-10-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.539	0.050	40.00	39.42	1.5	40.0	PASS	PASS
2-Nitroaniline	1.012	0.050	40.00	36.29	9.3	40.0	PASS	PASS
Dimethyl phthalate	2.762	0.050	40.00	38.33	4.2	40.0	PASS	PASS
2,6-Dinitrotoluene	0.657	0.050	40.00	38.13	4.7	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	40.00	37.48	6.3	40.0	PASS	PASS
3-Nitroaniline	0.992	0.050	40.00	36.52	8.7	40.0	PASS	PASS
Acenaphthene	1.224	0.050	40.00	38.75	3.1	20.0	PASS	PASS
2,4-Dinitrophenol	2.560	0.050	40.00	50.78	-26.9	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	40.00	41.30	-3.3	40.0	PASS	PASS
Dibenzofuran	0.782	0.050	40.00	34.12	14.7	40.0	PASS	PASS
2,4-Dinitrotoluene	0.337	0.050	40.00	36.45	8.9	40.0	PASS	PASS
Diethyl phthalate	2.265	0.050	40.00	35.15	12.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.689	0.050	40.00	32.58	18.6	40.0	PASS	PASS
Fluorene	2.342	0.050	40.00	36.23	9.4	40.0	PASS	PASS
4-Nitroaniline	1.770	0.050	40.00	36.84	7.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.733	0.050	40.00	57.36	-43.4	40.0	FAIL	PASS
N-Nitrosodiphenylamine	0.727	0.050	40.00	43.88	-9.7	20.0	PASS	PASS
Azobenzene	1.011	0.050	40.00	43.05	-7.6	40.0	PASS	PASS
2,4,6-Tribromophenol	1.812	0.050	40.00	43.81	-9.5	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.535	0.050	40.00	41.88	-4.7	40.0	PASS	PASS
Hexachlorobenzene	0.568	0.050	40.00	41.03	-2.6	40.0	PASS	PASS
Pentachlorophenol	1.626	0.050	40.00	46.52	-16.3	20.0	PASS	PASS
Phenanthrene	1.038	0.050	40.00	43.18	-8.0	40.0	PASS	PASS
Anthracene	1.105	0.050	40.00	45.43	-13.6	40.0	PASS	PASS
Carbazole	0.997	0.050	40.00	42.07	-5.2	40.0	PASS	PASS
Di-n-butyl phthalate	2.269	0.050	40.00	44.91	-12.3	40.0	PASS	PASS
Fluoranthene	0.903	0.050	40.00	38.88	2.8	20.0	PASS	PASS
Benzidine	0.395	0.050	40.00	29.39	26.5	40.0	PASS	PASS
Pyrene	0.801	0.050	40.00	39.55	1.1	40.0	PASS	PASS
4-Terphenyl-d14	1.137	0.050	40.00	38.40	4.0	40.0	PASS	PASS
Butyl benzyl phthalate	0.988	0.050	40.00	41.78	-4.4	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.857	0.050	40.00	40.07	-0.2	40.0	PASS	PASS
Benz[a]anthracene	1.556	0.050	40.00	34.88	12.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.965	0.050	40.00	32.81	18.0	40.0	PASS	PASS
Chrysene	1.918	0.050	40.00	37.58	6.0	40.0	PASS	PASS
Di-n-octyl phthalate	2.567	0.050	40.00	43.62	-9.0	20.0	PASS	PASS
Benzo(b)fluoranthene	1.510	0.050	40.00	41.86	-4.6	40.0	PASS	PASS
Benzo[k]fluoranthene	1.512	0.050	40.00	41.75	-4.4	40.0	PASS	PASS
Benzo[a]pyrene	1.411	0.050	40.00	41.62	-4.0	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.862	0.050	40.00	40.25	-0.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.730	0.050	40.00	40.31	-0.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.829	0.050	40.00	39.26	1.8	40.0	PASS	PASS

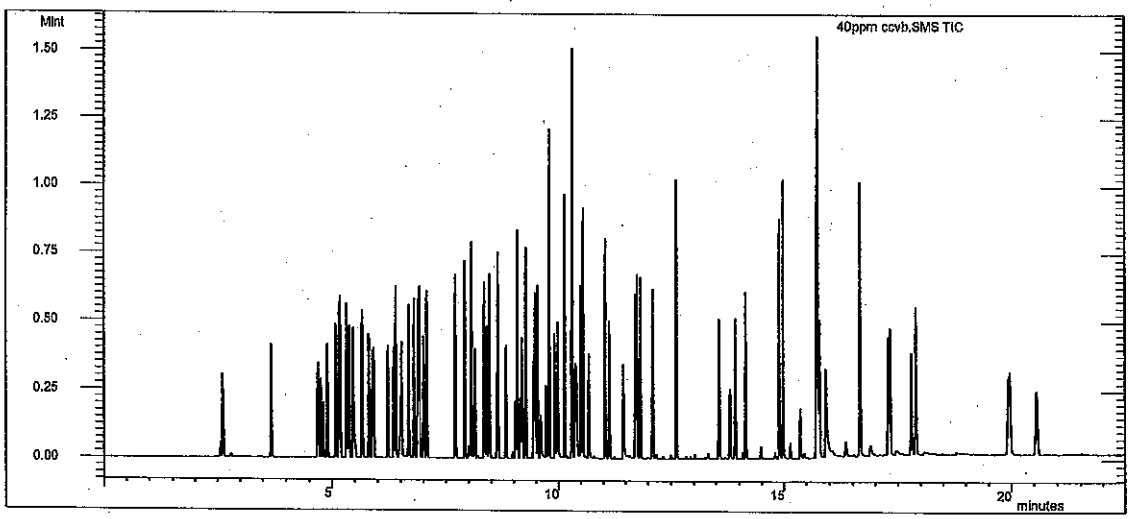
1 RR hits

dam 9/10/14

JC 9.10.14

8270C Report

Sample Name:	40ppm ccvb	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	9/9/2014 12:45:18 PM
Calculation Date:	9/9/2014 1:07:48 PM				



dam 9/10/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.161	438	Identified	122888	40.000
Naphthalene-d8 (I.S)	6.881	619	Identified	431252	40.000
Acenaphthene-d10 (I.S)	9.479	893	Identified	211377	40.000
Phenanthrene-d10	11.725	1128	Identified	364604	40.000
Chrysene-d12 I.S	15.746	1553	Identified	414557	40.000
Perylene-d12 I.S	17.893	1775	Identified	512656	40.000
N-nitrosodimethylamine	2.575	162	Identified	535367	58.280
Pyridine	2.620	167	Identified	1.557E6	55.713
2-Fluorophenol	3.687	281	Identified	151916	43.098
Phenol-d5	4.688	388	Identified	136013	40.622
Phenol	4.704	390	Identified	155197	41.060
Aniline	4.760	396	Identified	436228	34.723
Bis(2-chloroethyl)ether	4.815	402	Identified	260053	41.690
2-Chlorophenol	4.903	411	Identified	155349	42.279
1,3-Dichlorobenzene	5.090	430	Identified	185112	39.783
1,4-Dichlorobenzene	5.181	440	Identified	191523	43.600
Benzyl alcohol	5.324	455	Identified	143935	41.383
1,2-Dichlorobenzene	5.378	461	Identified	186390	42.977
2-Methylphenol	5.462	469	Identified	128613	42.871
Bis(2-chloroisopropyl)ether	5.483	472	Identified	179200	41.501
3+4-Methylphenol	5.666	491	Identified	147645	38.800
N-Nitrosodi-n-propylamine	5.659	490	Identified	458289	42.086
Hexachloroethane	5.814	506	Identified	614540	43.150
Nitrobenzene-d5	5.888	514	Identified	131872	39.328

JC 9.10.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.915	517	Identified	136969	39.640
Isophorone	6.220	550	Identified	272093	43.067
2-Nitrophenol	6.347	563	Identified	136887	40.833
2,4-Dimethylphenol	6.394	568	Identified	161972	41.130
Benzoic acid	6.494	578	Identified	1.046E6	45.740
Bis(2-chloroethoxy)methane	6.523	581	Identified	168160	43.110
2,4-Dichlorophenol	6.682	598	Identified	153559	40.331
1,2,4-Trichlorobenzene	6.797	610	Identified	141464	39.964
Naphthalene	6.912	622	Identified	378515	42.252
4-Chloroaniline	6.999	631	Identified	163174	39.532
Hexachlorobutadiene	7.072	639	Identified	282210	39.296
4-Chloro-3-methylphenol	7.711	707	Identified	199683	44.190
2-Methylnaphthalene	7.916	729	Identified	106379	39.129
1-Methylnaphthalene	8.062	744	Identified	110099	39.775
Hexachlorocyclopentadiene	8.138	752	Identified	179007	32.942
2,4,6-Trichlorophenol	8.345	774	Identified	70575	37.479
2,4,5-Trichlorophenol	8.400	780	Identified	62223	35.508
2-Fluorobiphenyl	8.461	786	Identified	314402	38.992
2-Chloronaphthalene	8.642	805	Identified	325284	39.417
2-Nitroaniline	8.822	824	Identified	213893	36.290
Dimethyl phthalate	9.077	851	Identified	583919	38.334
2,6-Dinitrotoluene	9.182	861	Identified	138932	38.128
Acenaphthylene	9.266	870	Identified	385680	37.480
3-Nitroaniline	9.442	889	Identified	209620	36.520
Acenaphthene	9.528	898	Identified	258683	38.753
2,4-Dinitrophenol	9.595	905	Identified	541064	50.777
4-Nitrophenol	9.720	918	Identified	41953	41.301
Dibenzofuran	9.787	925	Identified	165319	34.125
2,4-Dinitrotoluene	9.789	925	Identified	71161	36.451
Diethyl phthalate	10.135	961	Identified	478709	35.149
4-Chlorophenyl phenyl ether	10.303	979	Identified	145650	32.578
Fluorene	10.303	979	Identified	495133	36.231
4-Nitroaniline	10.369	986	Identified	374212	36.841
4,6-Dinitro-2-methylphenol	10.403	989	Identified	631840	57.363
N-Nitrosodiphenylamine	10.495	999	Identified	265168	43.878
Azobenzene	10.545	1004	Identified	368433	43.046
2,4,6-Tribromophenol	10.677	1018	Identified	660601	43.811
4-Bromophenyl phenyl ether	11.044	1057	Identified	195139	41.883
Hexachlorobenzene	11.133	1066	Identified	207167	41.035
Pentachlorophenol	11.447	1099	Identified	592911	46.522
Phenanthrene	11.760	1132	Identified	378536	43.181
Anthracene	11.837	1140	Identified	402792	45.433
Carbazole	12.103	1168	Identified	363455	42.067
Di-n-butyl phthalate	12.606	1221	Identified	827316	44.908
Fluoranthene	13.568	1323	Identified	329411	38.879
Benzidine	13.799	1348	Identified	163670	29.385
Pyrene	13.915	1360	Identified	332202	39.548
4-Terphenyl-d14	14.148	1384	Identified	471243	38.399
Butyl benzyl phthalate	14.889	1463	Identified	409694	41.778
3,3'-Dichlorobenzidine	15.713	1549	Identified	769990	40.069

Operator: David Melius Inj. Notes: sv110-0593 40ppm ccvb.SMS

9/9/2014 13:08

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.730	1551	Identified	645113	34.883
Bis(2-ethylhexyl)phthalate	15.729	1551	Identified	399851	32.811
Chrysene	15.784	1557	Identified	795253	37.584
Di-n-octyl phthalate	16.661	1648	Identified	1.064E6	43.619
Benzo(b)fluoranthene	17.282	1712	Identified	774219	41.858
Benzo[k]fluoranthene	17.320	1716	Identified	775122	41.749
Benzo[a]pyrene	17.797	1765	Identified	723534	41.618
Indeno[1,2,3-cd]pyrene	19.933	1987	Identified	441691	40.249
Dibenz[a,h]anthracene	19.971	1990	Identified	374059	40.308
Benzo[g,h,i]perylene	20.560	2051	Identified	424823	39.264

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**********************************************************
Revision Log
**********************************************************

9/9/2014 1:07 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 042514.mth'
```

.an Star Workstation - 8400 Samplebase Report

leList: C:\VarianWS\042514crv.smp

ated: Fri Apr 25 09:05:43 2014
ified: Fri Apr 25 15:09:46 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-827.0	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

JC
4-28-14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

sate and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-24-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

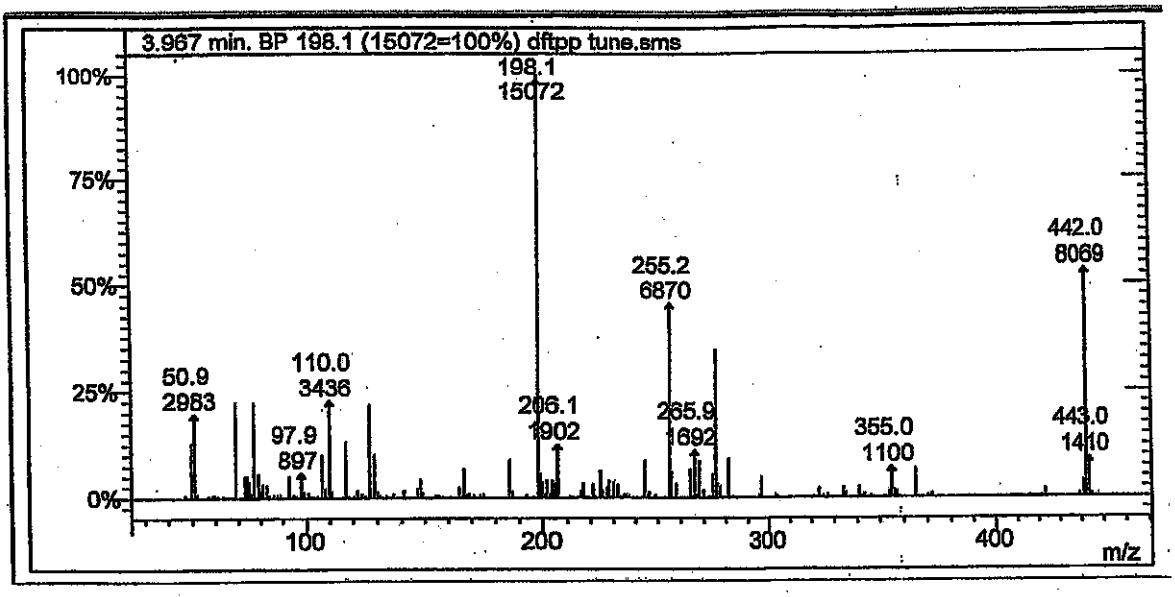
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dkm 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

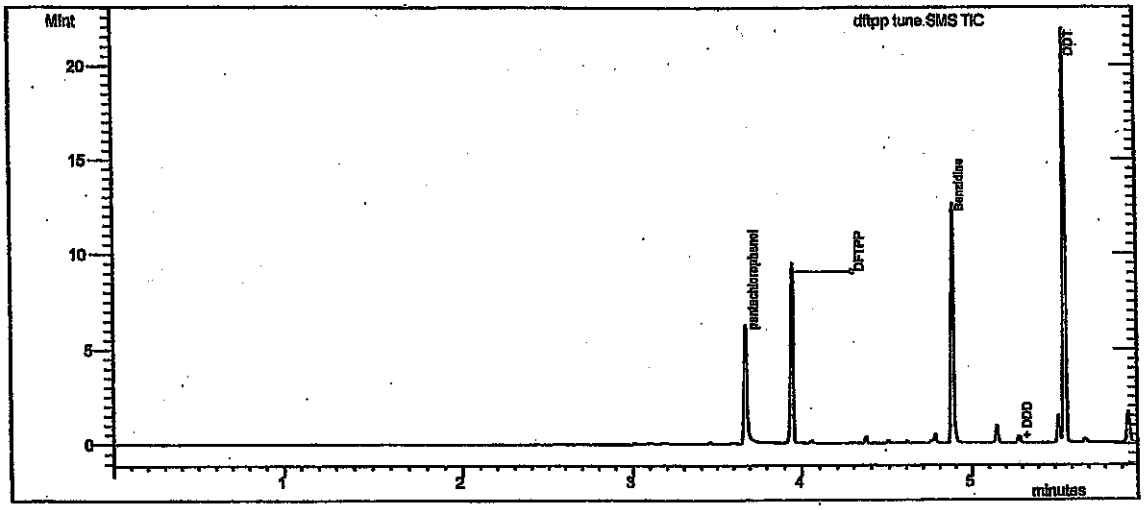
JDM 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

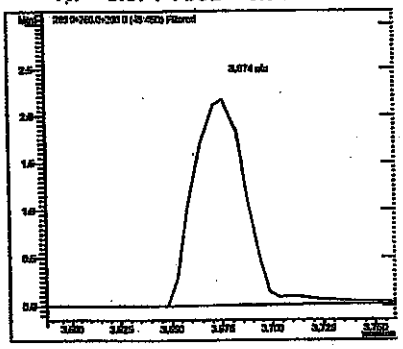
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

✓ 4-28-14

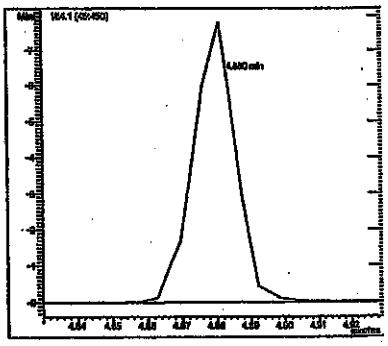
Tailing and Gaussian Factor Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

4/28/14

4.28.14

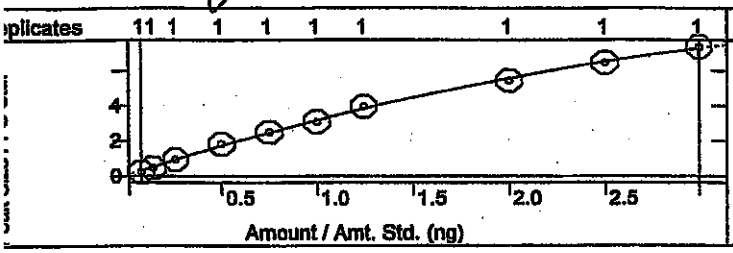
Calibration Curves Report

V JAH 4/28/14

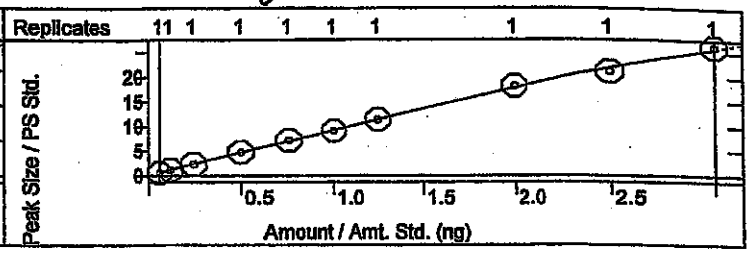
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
GS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

D 4-28-14

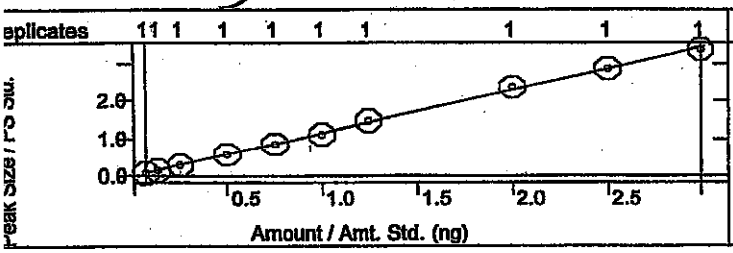
N-nitrosodimethylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
y = -0.3412x2 +3.4265x +0.0884



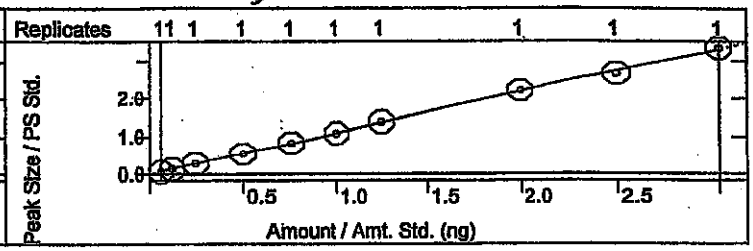
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



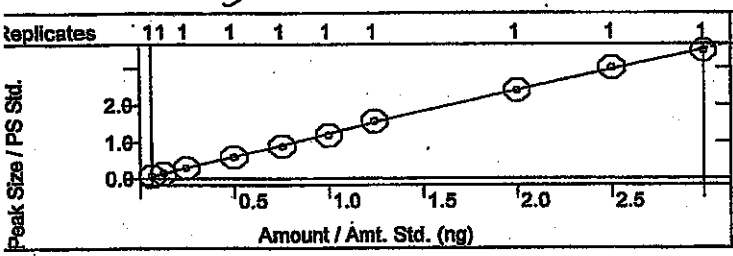
2-Fluorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
y = +1.1454x +0.0021



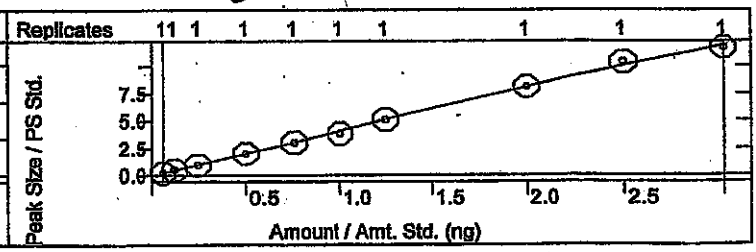
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



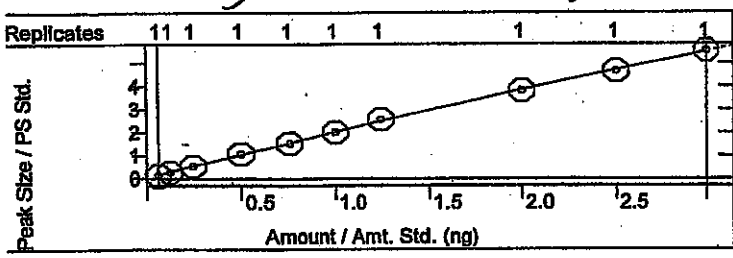
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
y = -0.0409x2 +1.2967x -0.0251



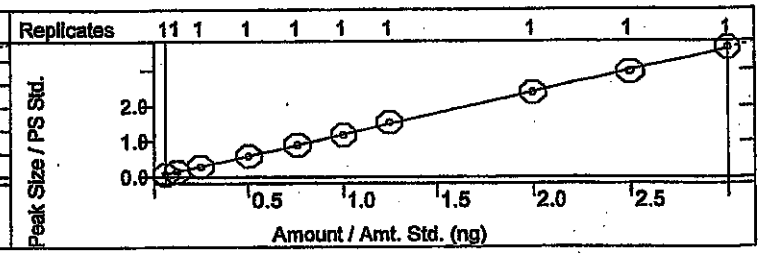
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



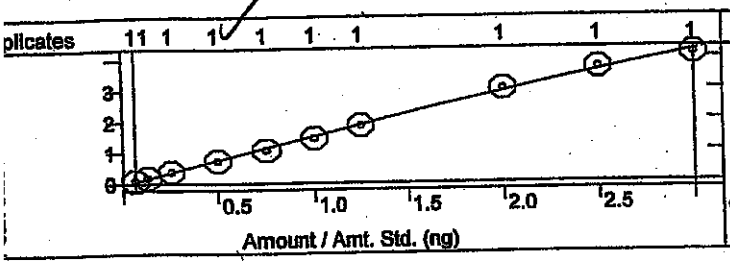
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



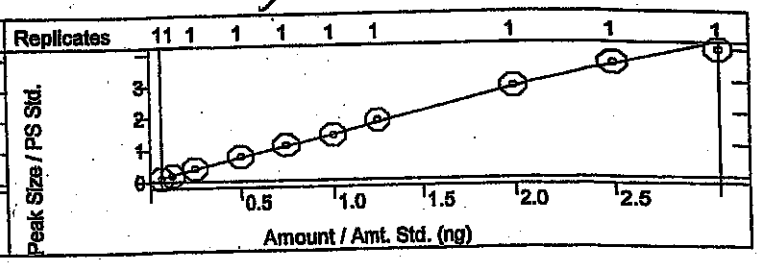
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

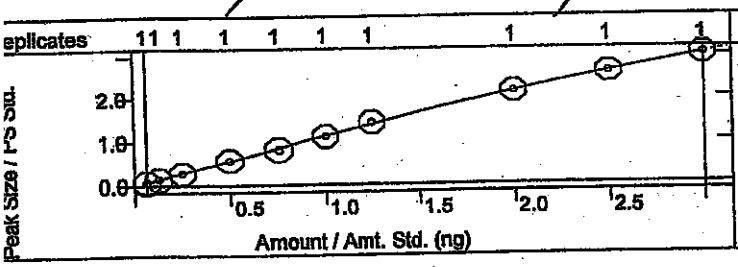
3-Dichlorobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



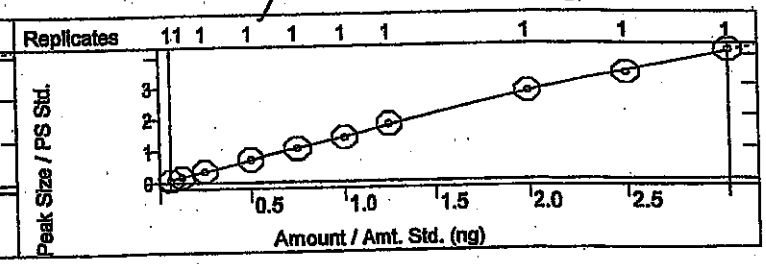
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



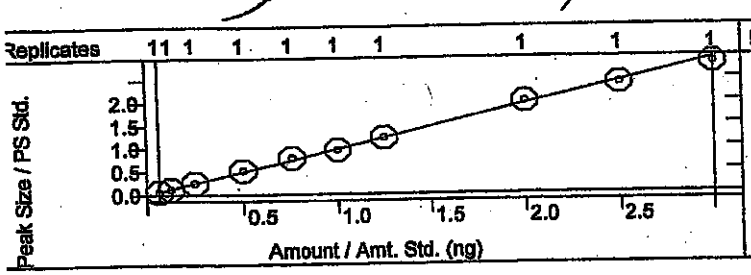
Benzyl alcohol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
y = -0.0661x2 +1.2165x -0.0165



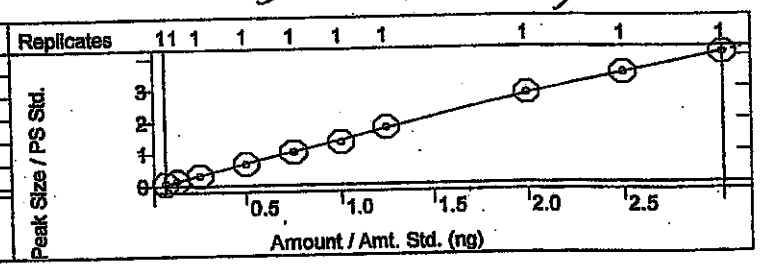
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



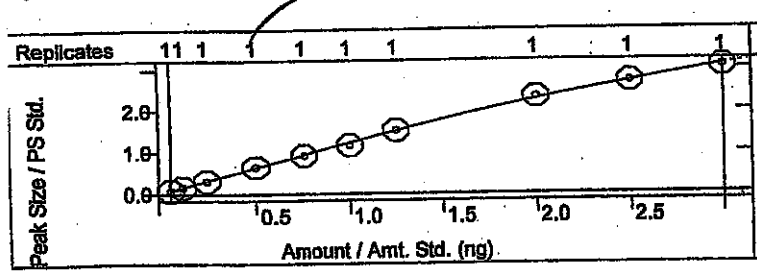
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



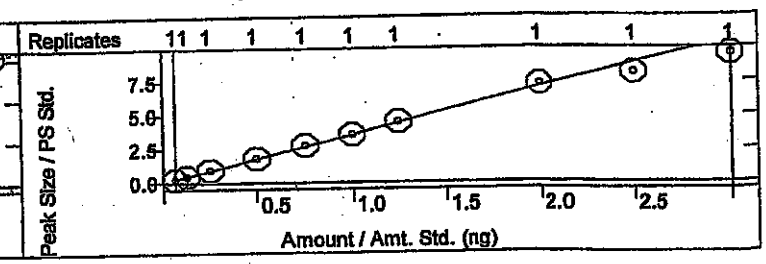
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

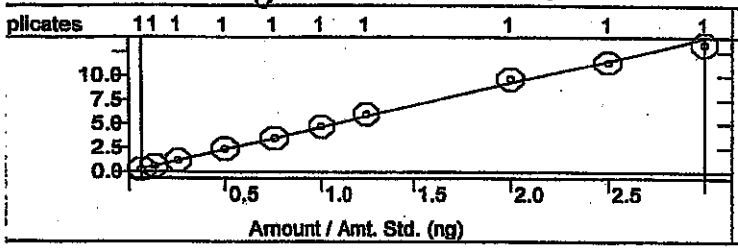


I dan 4/28/14

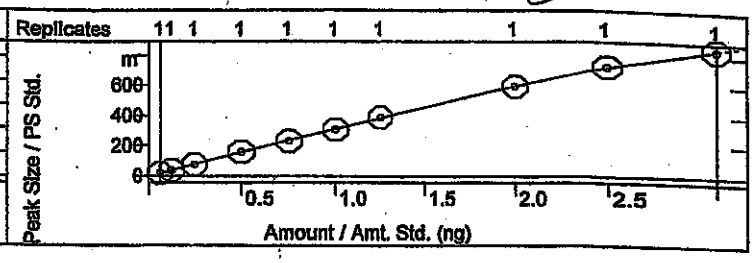
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4.28.14

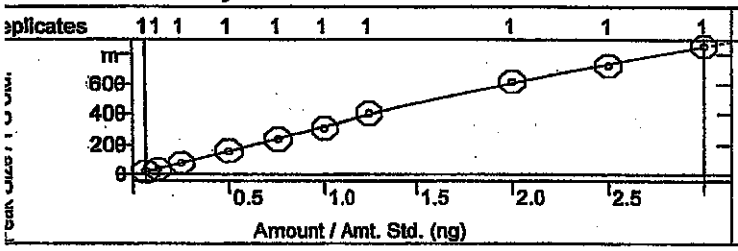
exachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
y = +4.6167x +0.0205



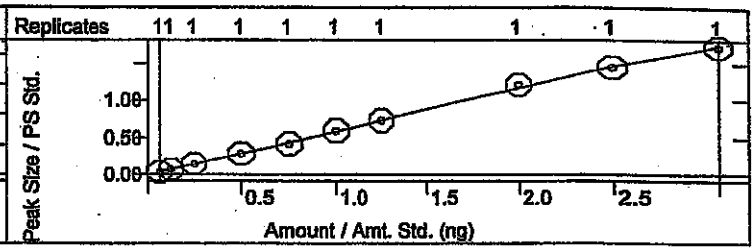
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



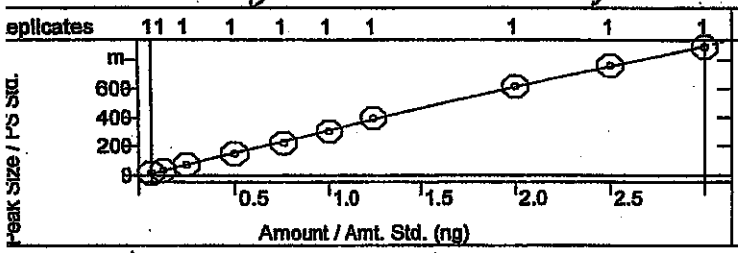
Nitrobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
y = -0.0200x2 +0.3461x -0.0058



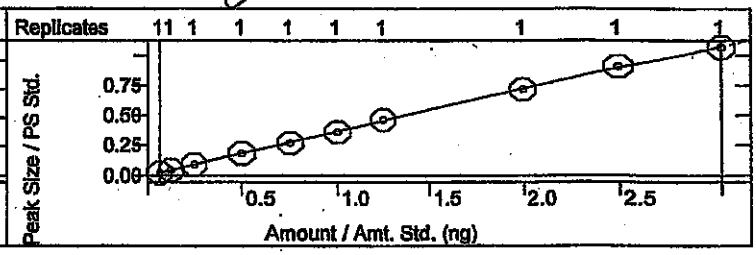
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



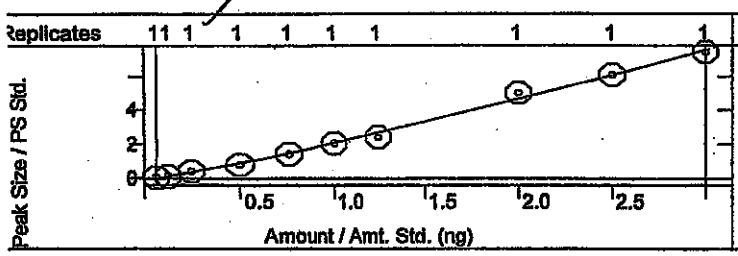
2-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
y = -0.0089x2 +0.3282x -0.0083



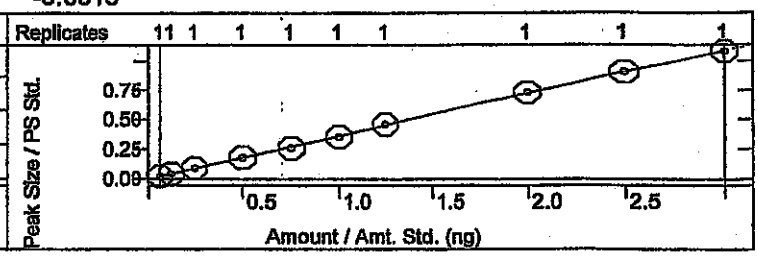
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016



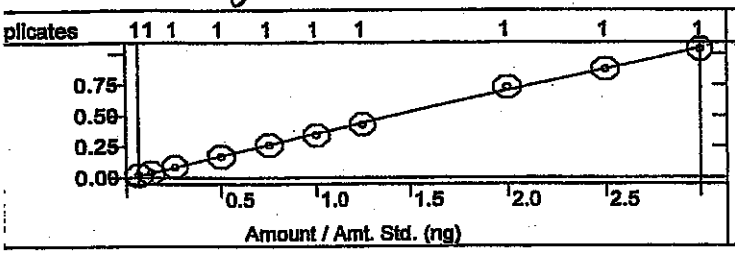
alibration Curves Report

v dam 4/28/14

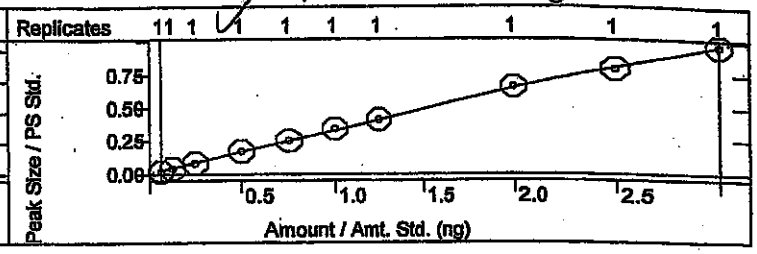
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

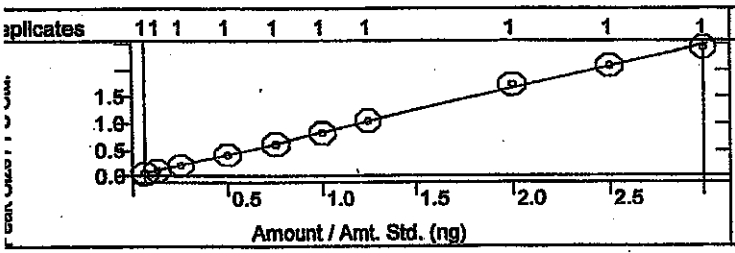
,4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



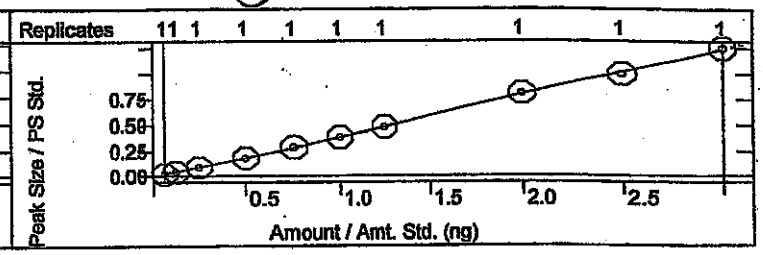
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



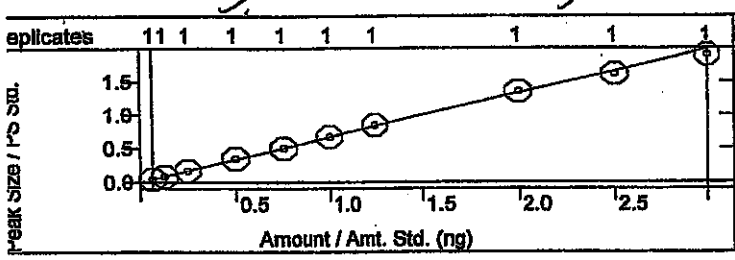
laphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



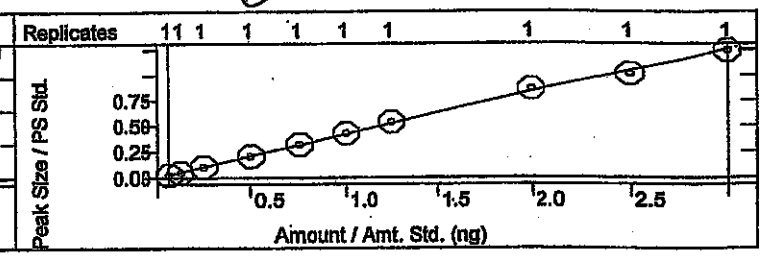
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



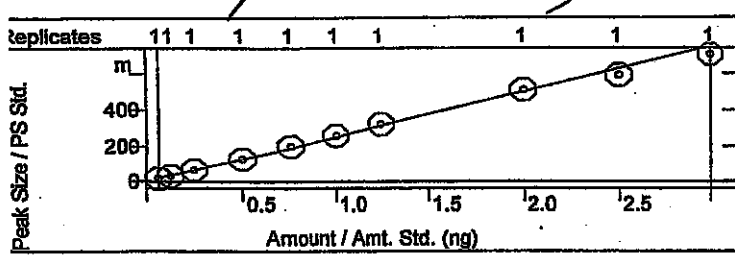
lexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



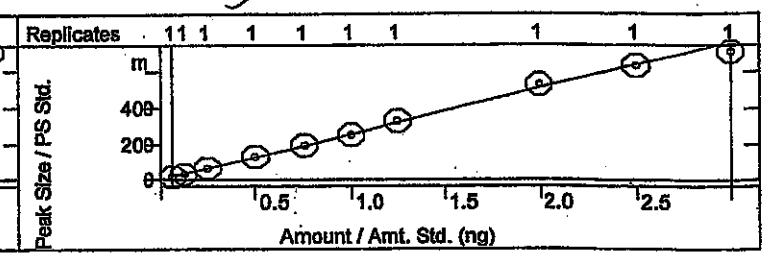
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



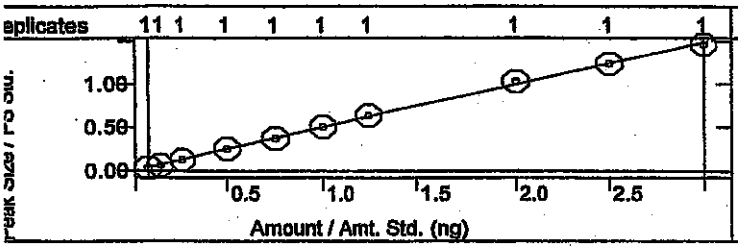
Calibration Curves Report

AMM 7/20/17

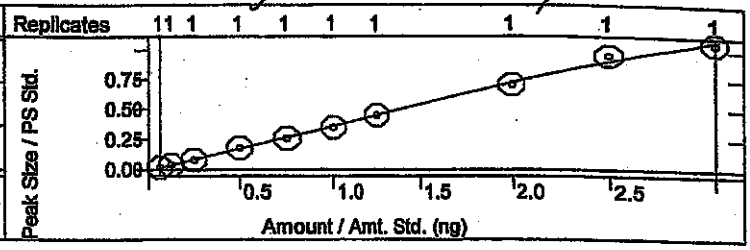
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

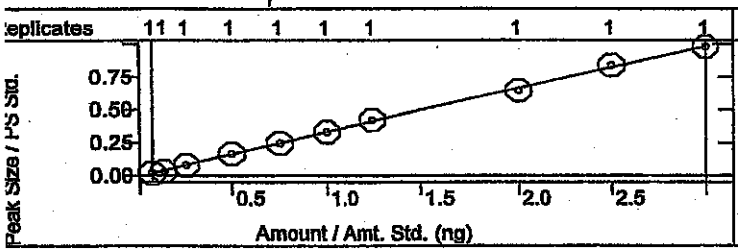
Hexachlorocyclopentadiene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
y = +0.4936x +0.0086



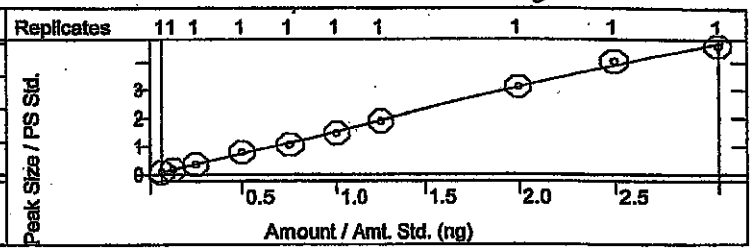
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



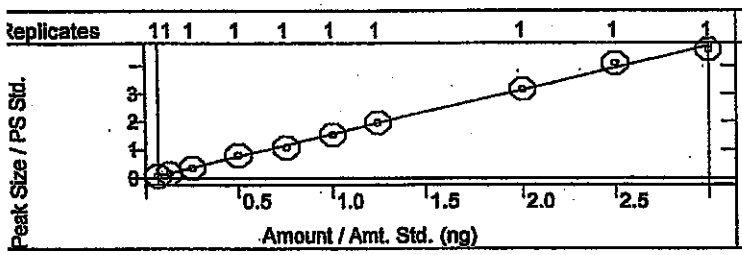
2,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
y = -0.0042x2 +0.3430x -0.0068



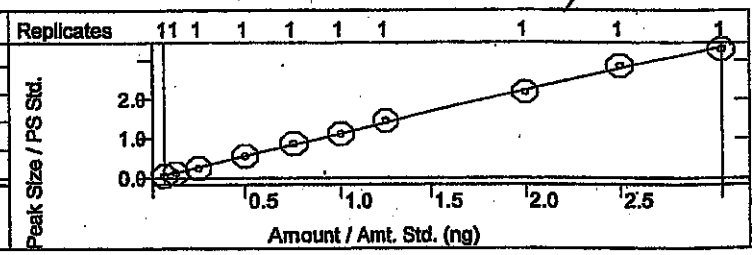
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



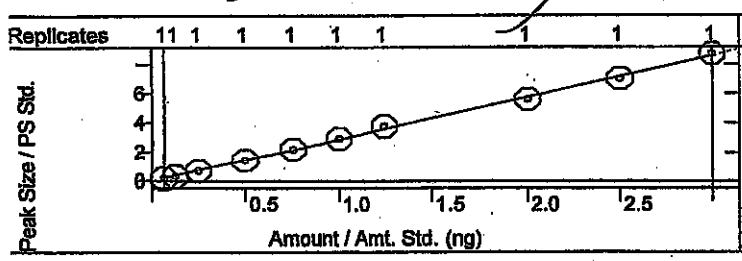
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
y = +1.5769x -0.0150



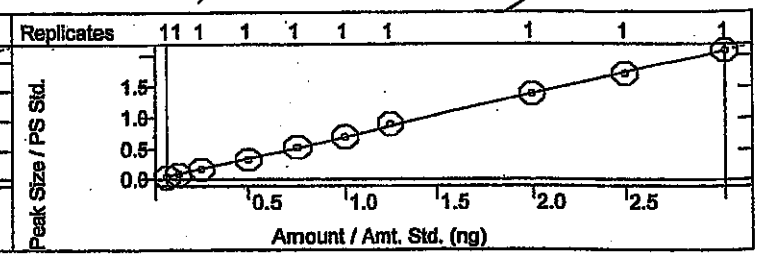
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



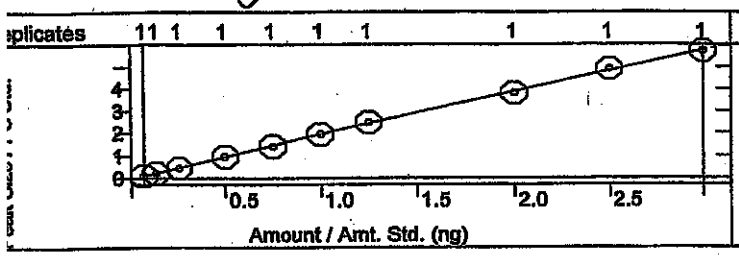
alibration Curves Report

J dm 4/28/14

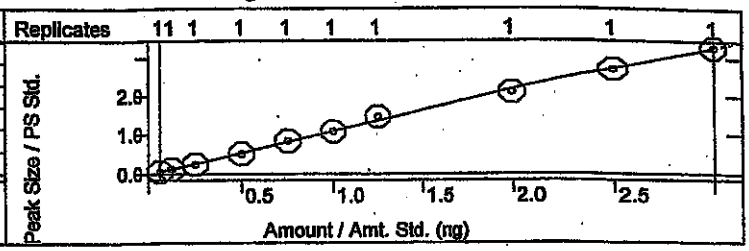
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

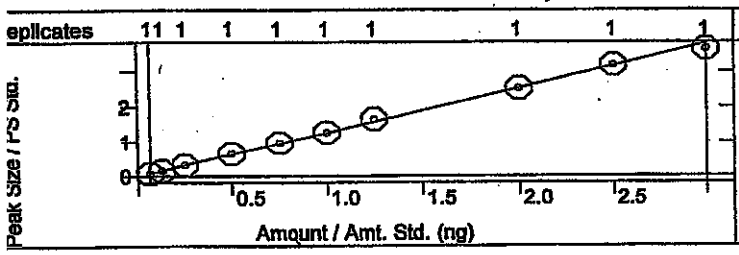
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



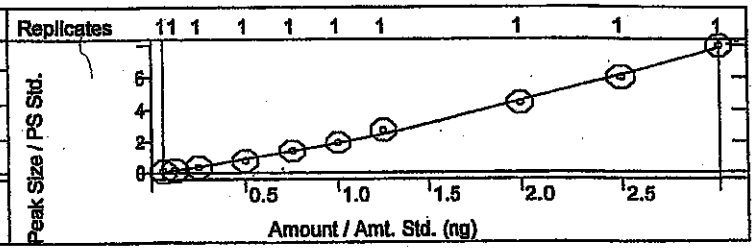
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



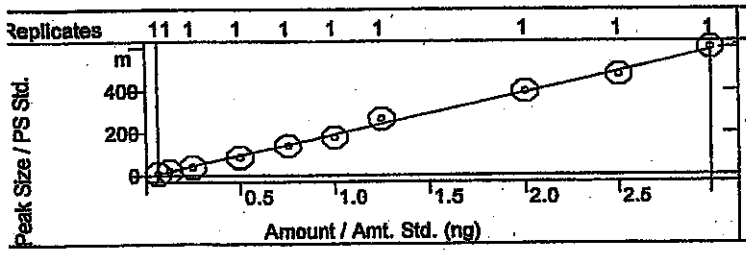
Acenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
y = +1.2637x -5.2278e-4



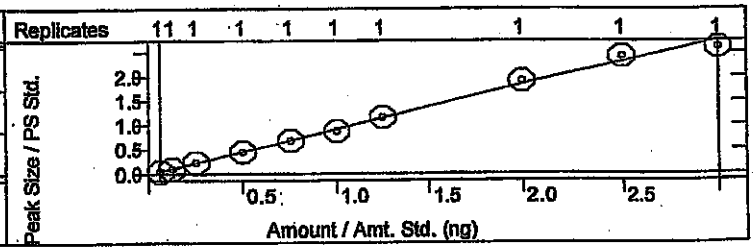
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6287x -0.0504



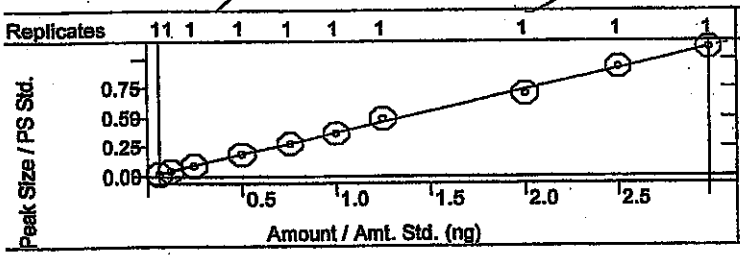
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



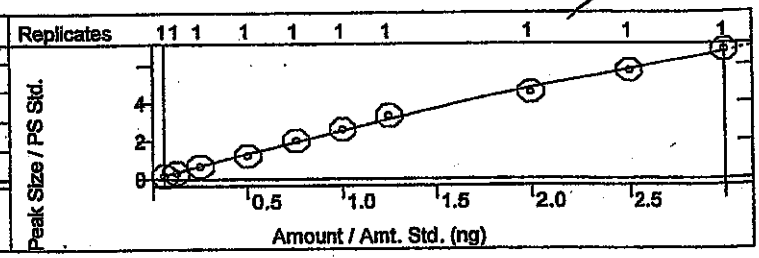
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097

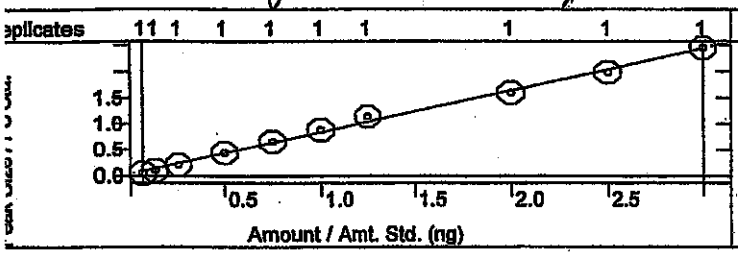


J MM 4/28/14

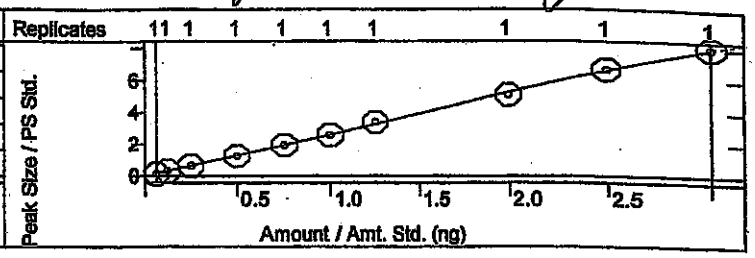
lethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
IS Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

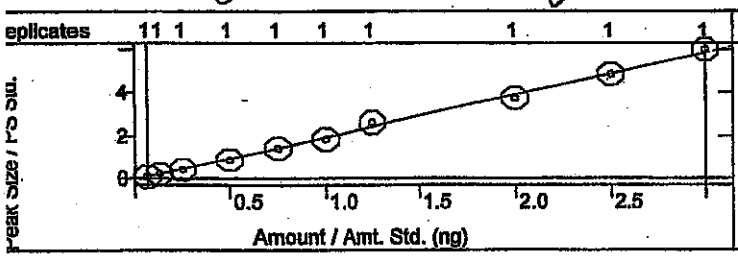
-Chlorophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
y = +0.8008x +0.0369



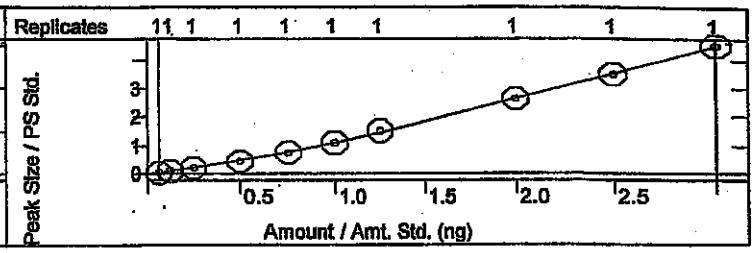
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



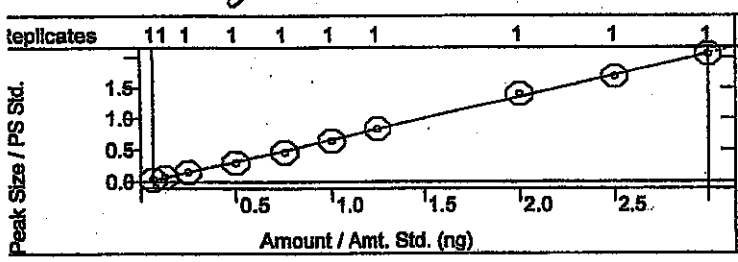
I-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
y = +1.9592x -0.0342



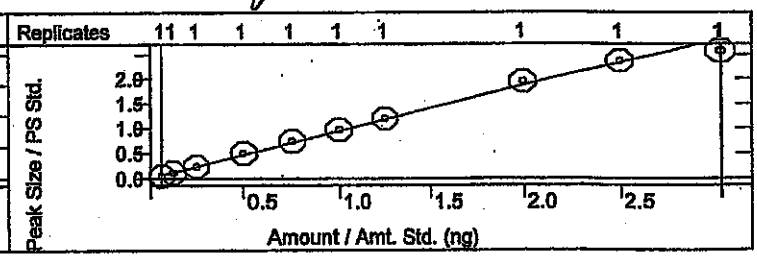
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



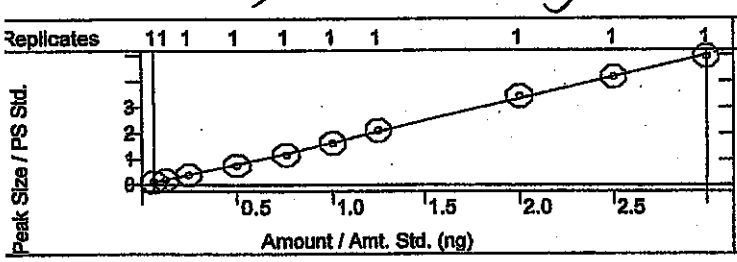
N-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



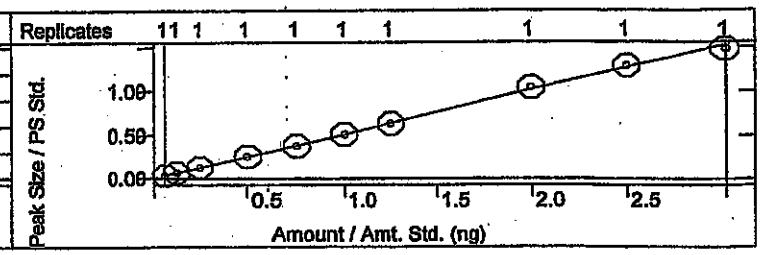
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



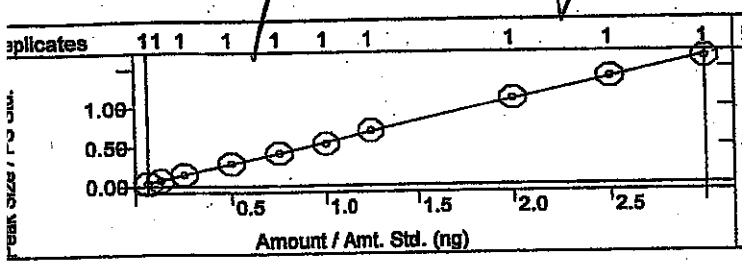
Calibration Curves Report

V dam 4/28/14

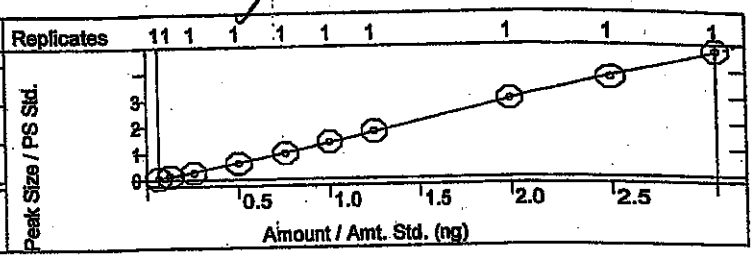
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
IS Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-24-14

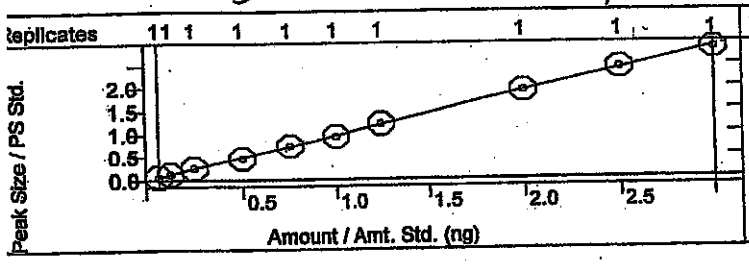
lexachlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



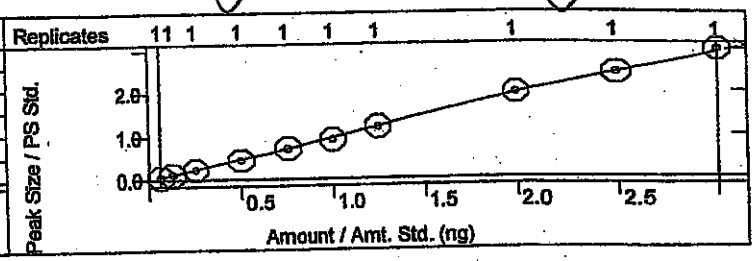
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



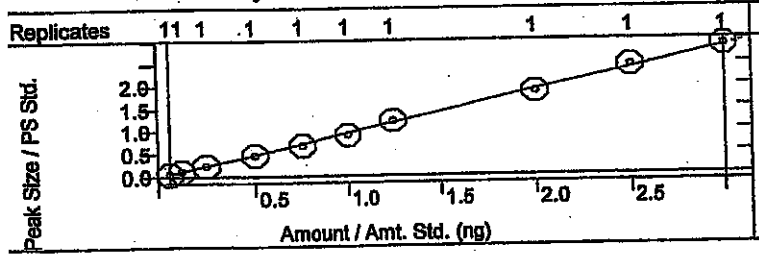
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



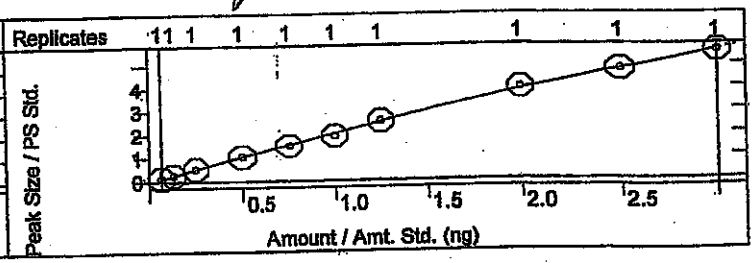
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



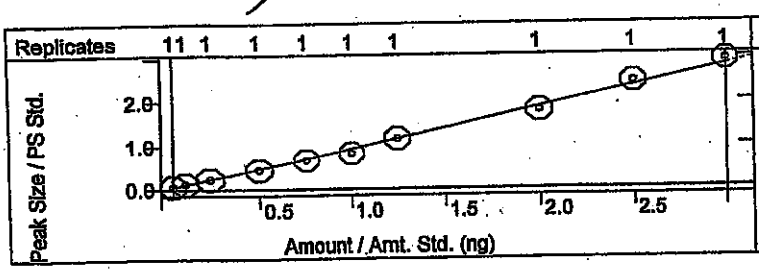
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



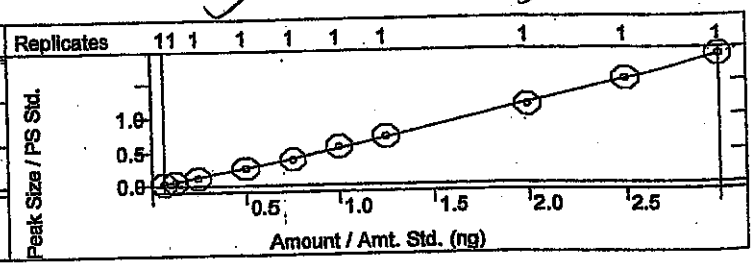
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



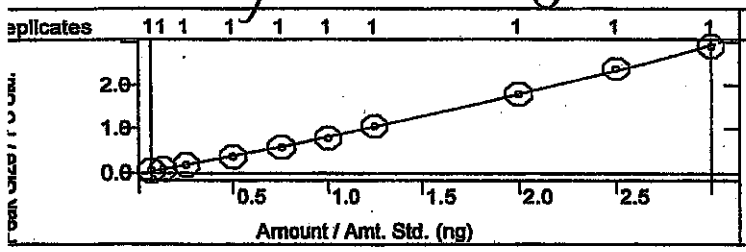
Calibration Curves Report

J Allen 4/30/14

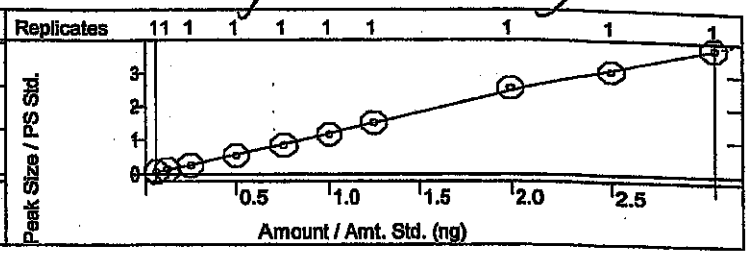
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JK 5-6-14

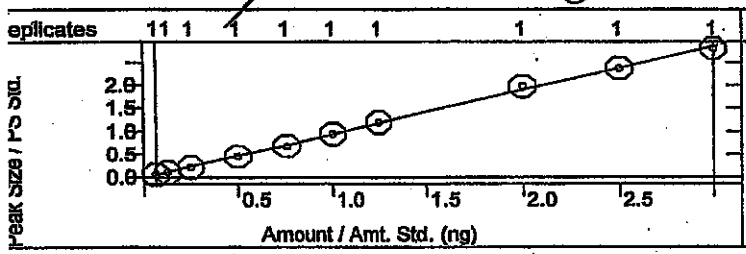
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
y = +0.0803x2 +0.7448x -0.0135



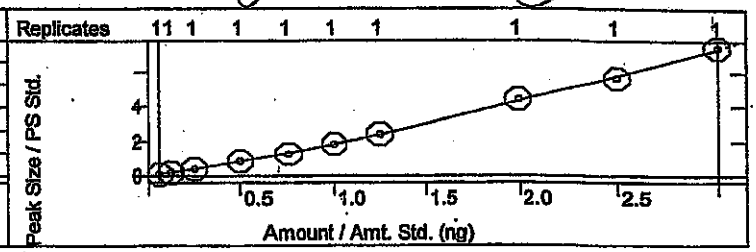
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



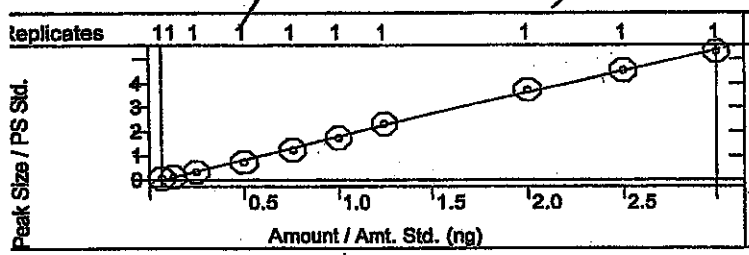
Butyl benzyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
y = +0.9570x -0.0113



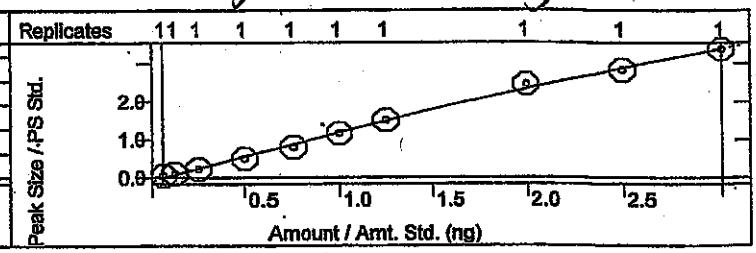
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



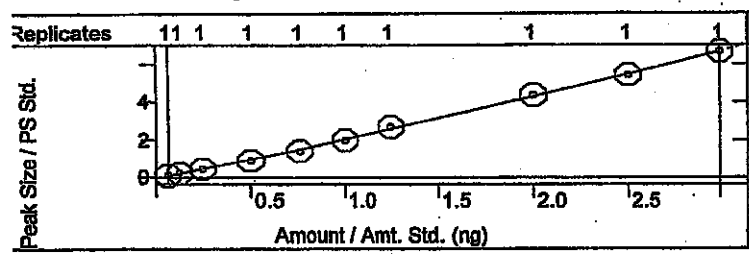
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9866x -0.1374



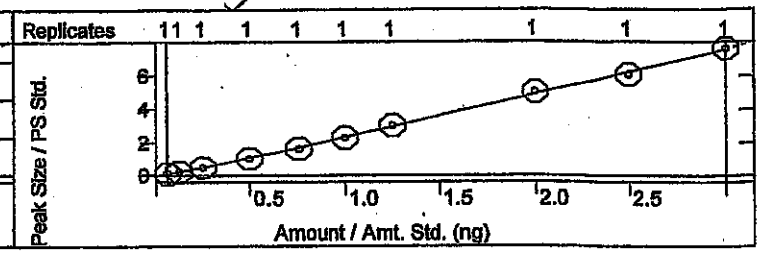
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



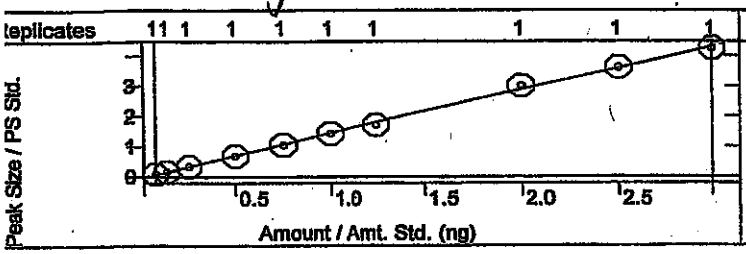
Calibration Curves Report

/ dmh 4/28/14

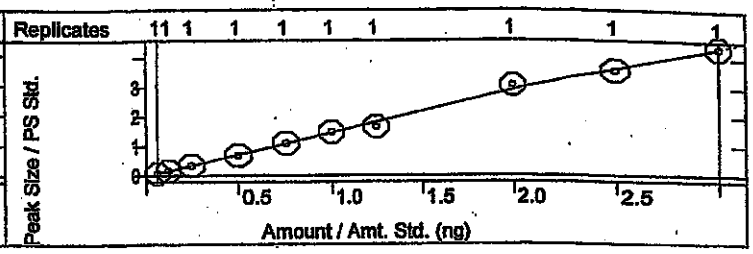
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 4-28-14

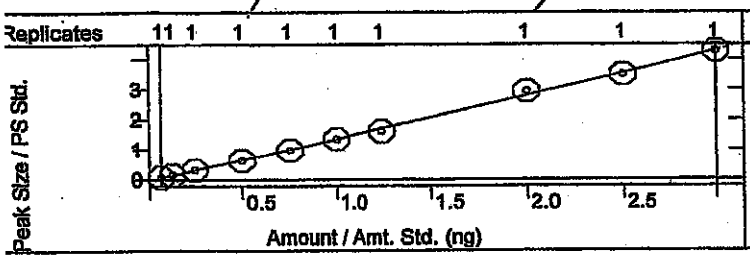
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
y = -0.0187x2 +1.5058x -0.0450



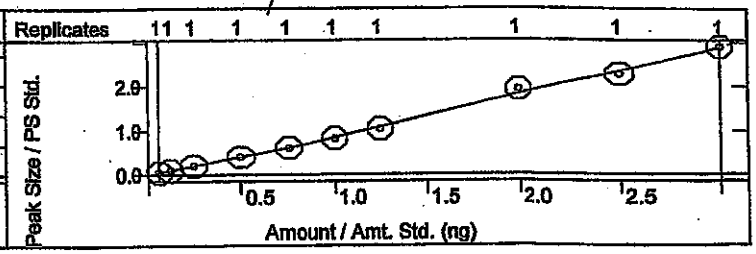
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



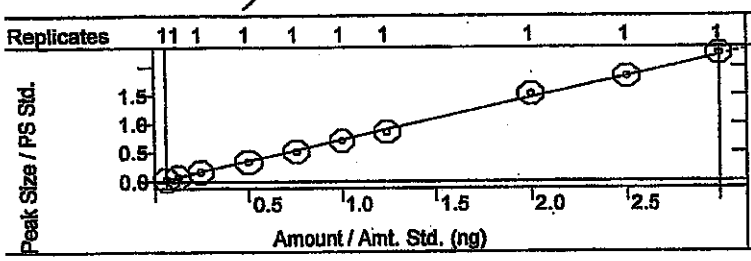
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



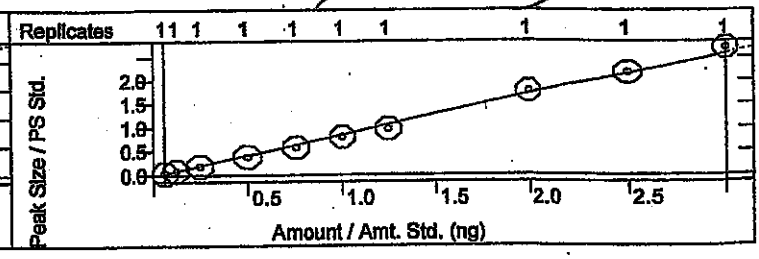
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dm 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/29/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	%RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

JL 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

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JC 4.28.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-24-14

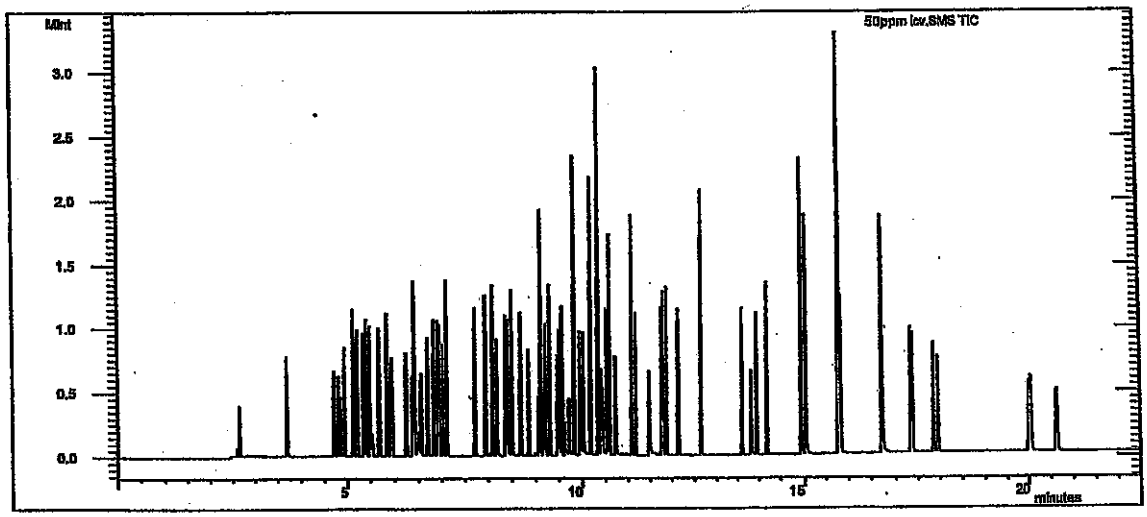
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dam 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199585	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

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Revision Log

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4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

9/11/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409219**
Date Reported:

4 R

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409219

Lab ID: 1409219-001
Client Sample ID: FFOR-CF-0063
Collection Date: 9/4/2014 8:42:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	6.0 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:21:00 PM

Lab ID: 1409219-002
Client Sample ID: FFOR-CF-0064
Collection Date: 9/4/2014 8:50:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	7.9 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:22:17 PM

Lab ID: 1409219-003
Client Sample ID: FFOR-CF-0065
Collection Date: 9/4/2014 9:00:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	24 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:23:33 PM

Lab ID: 1409219-004
Client Sample ID: FFOR-CF-0066
Collection Date: 9/4/2014 9:00:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	20 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:24:50 PM

Lab ID: 1409219-005
Client Sample ID: FFOR-CF-0067
Collection Date: 9/4/2014 9:30:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	6.6	0.54		mg/Kg-dry	2	15138	9/6/2014 1:40:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409219
Project: Kirtland AFB

Lab ID: 1409219-006 **Collection Date:** 9/4/2014 11:12:00 AM
Client Sample ID: FFOR-CF-0068 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	4.2 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:27:24 PM

Lab ID: 1409219-007 **Collection Date:** 9/4/2014 2:31:00 PM
Client Sample ID: FFOR-CF-0069 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	46 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:32:26 PM

Lab ID: 1409219-008 **Collection Date:** 9/4/2014 2:45:00 PM
Client Sample ID: FFOR-CF-0070 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	2.4 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:33:45 PM

Lab ID: 1409219-009 **Collection Date:** 9/4/2014 2:54:00 PM
Client Sample ID: FFOR-CF-0071 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/09/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	35 ✓	0.27		mg/Kg-dry	1	15138	9/6/2014 1:37:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 9/5/14

QA'd/Date: JWF 9/10/14

Prep Start Date: **9/5/2014 9:06:30 A**
Prep End Date:

Prep Batch ID **15138** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15138		Soil			1.0244	0	0	50	50.000	9/5/2014	
LCS-15138		Soil			1.9779	0	0	50	50.000	9/5/2014	
1409219-001A	FFOR-CF-0063	MeOH (Soil)			1.0282	0	0	50	50.000	9/5/2014	
1409219-002A	FFOR-CF-0064	MeOH (Soil)			1.9908	0	0	50	50.000	9/5/2014	
1409219-003A	FFOR-CF-0065	MeOH (Soil)			1.9960	0	0	50	50.000	9/5/2014	
1409219-004A	FFOR-CF-0066	MeOH (Soil)			1.0105	0	0	50	50.000	9/5/2014	
1409219-005A	FFOR-CF-0067	MeOH (Soil)			1.9854	0	0	50	50.000	9/5/2014	
1409219-006A	FFOR-CF-0068	MeOH (Soil)			1.0215	0	0	50	50.000	9/5/2014	
1409219-007A	FFOR-CF-0069	MeOH (Soil)			1.9910	0	0	50	50.000	9/5/2014	
1409219-008A	FFOR-CF-0070	MeOH (Soil)			1.9931	0	0	50	50.000	9/5/2014	
1409219-008AMS		MeOH (Soil)			1.9839	0	0	50	50.000	9/5/2014	
1409219-008AMSD		MeOH (Soil)			1.9948	0	0	50	50.000	9/5/2014	
*1409219-009A	FFOR-CF-0071	MeOH (Soil)			1.0105	0	0	50	50.000	9/5/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

*sample did not have a HEAL label. Hand written sample ID on lid. MD 9/5/14

MD 1409132-001A 0.9562

MD 1409134-002A 0.9941

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		153138		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4703	Tubes 1 / 1		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 3 / 3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1 / 5		HCl /		HCl /
	Filters /		Filters /	4724	Filters 3 1 x 8 9/14		Filters /		Filters /
				4684	H_2O_2 1 / 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 / 1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawan Position: D4

Therm ID: DBT-24 Calibration Exp: 9/27/15

Temp: 91.7 °C CF: -0 °C = Corr. Temp: 91.7 °C

Analyst: MD Date/Time: 9/5/14 15:12

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5005 Rm Temp (°C): 21.2 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

250µL Pipette No.: P03 Wt. DI (g): 0.2507 Rm Temp (°C): ↓ Analyst: ↓

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 9/5/14 QA'd/Date: [illegible] 9/10/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 21037

ICP-OES Analysis Summary

Data Imported By: ELS 9/6/14

Instrument: 1515

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 090614 BL5138 **Prep Batch ID:** 15138

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Calibration

	Standard ID
ST1	ST6010- 14379
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- ELS 9/6/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14391
ICV CAT	ST6010- N/A
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010- 14257	Custom Std 1102	50µL	10mL
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 50µL Wt DI (g): 0.0506 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P11 Spike Volume: 100µL Wt DI (g): 0.1008 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P30 Spike Volume: 500µL Wt DI (g): 0.5075 Rm Temp (°C): 21.3 Analyst: EL

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0111 Rm Temp (°C): 21.3 Analyst: EL

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
PB	140929-005A	0.06089	0.9954g	50mL	20	6.1192	mg/kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result: ____ mg/L

Analyst/Date: EL 9/6/14 Qa'd by/Date: 09/11/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ____ and ____.

Sample Information Detail Report
Document Name: 090614 B15138

File Description
Hall Design

Parameters Common to All Samples

Batch ID	090614 B15138
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-15138	MBLK
2	302	LCS-15138	LCS
3	303	1409136-001A	SAMP
4	304	1409136-002A	SAMP
5	305	1409219-001A	SAMP
6	306	1409219-002A	SAMP
7	307	1409219-003A	SAMP
8	308	1409219-004A	SAMP
9	309	1409219-005A	SAMP
10	310	1409219-006A	SAMP
11	311	1409219-007A	SAMP
12	312	1409219-008A	SAMP
13	313	1409219-008AMS	MS
14	314	1409219-008AMSD	MSD
15	315	1409219-009A	SAMP
17	316	1409136-001A 2X	SAMP
18	317	1409219-005A 2X	SAMP
19	318	1409219-008APS	PS

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL		
5	METALS_SOIL		
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL		
13	METALS_SOIL	Recovery 1 of 12	
14	METALS_SOIL	Recovery 1 of 12	
15	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

15
17
18
19

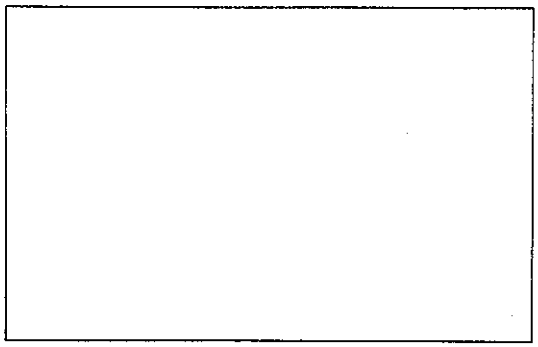
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	301	MB-15138	Analyzed
17	302	LCS-15138	Analyzed
18	303	1409136-001A	IS Check Failed
19	304	1409136-002A	Analyzed
20	305	1409219-001A	Analyzed
21	306	1409219-002A	Analyzed
22	307	1409219-003A	Analyzed
23	308	1409219-004A	Analyzed
24	309	1409219-005A	IS Check Failed
25	310	1409219-006A	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	311	1409219-007A	Analyzed
30	312	1409219-008A	Analyzed
31	313	1409219-008AMS	Analyzed
32	314	1409219-008AMSD	Analyzed
33	315	1409219-009A	Analyzed
34	316	1409136-001A 2X	Analyzed
35	317	1409219-005A 2X	Analyzed
36	318	1409219-008APS	Analyzed
37	2	CCV	QC Passed
38	1	CCB	QC Passed
39	3	CCV CAT	Analyzed
40	7	DI RINSE	QC Passed

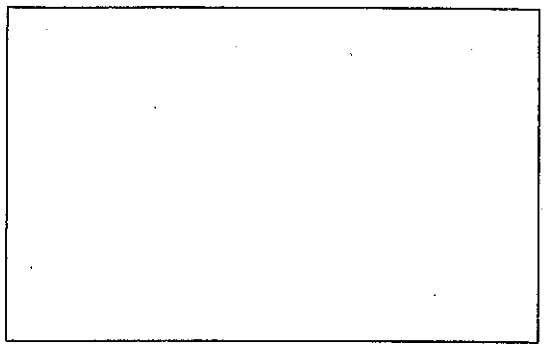
Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Ag 328.068



1

Al 396.153



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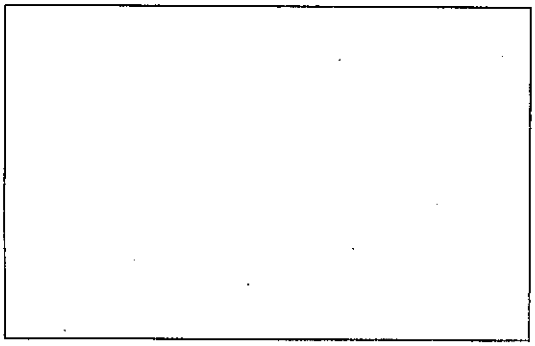
As 188.979



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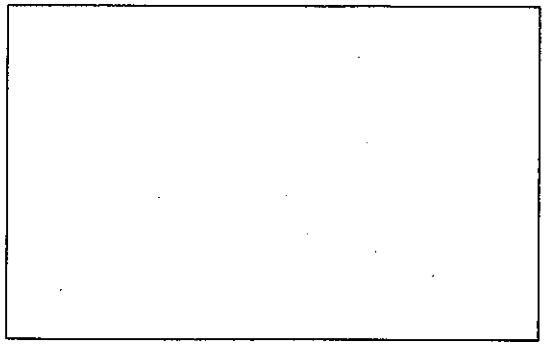
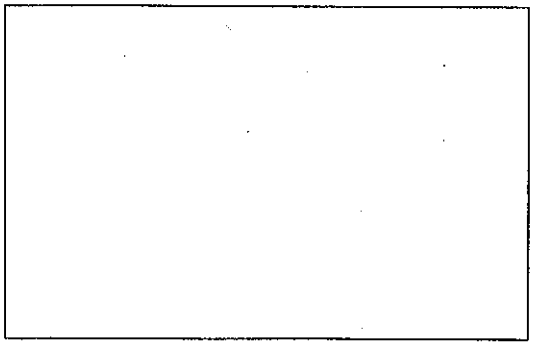
As 193.696



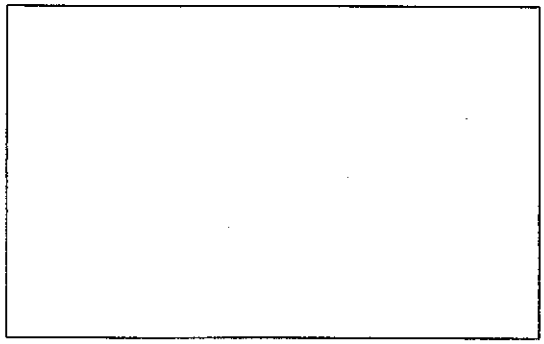
4

B 249.772



5

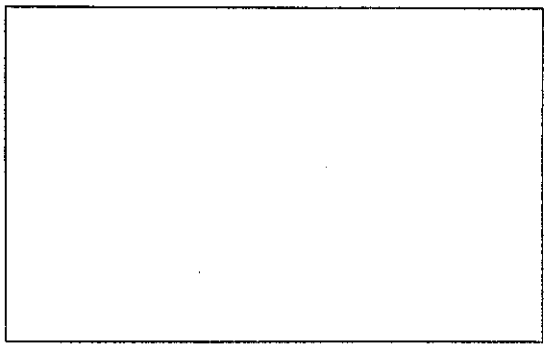
B 249.677



6

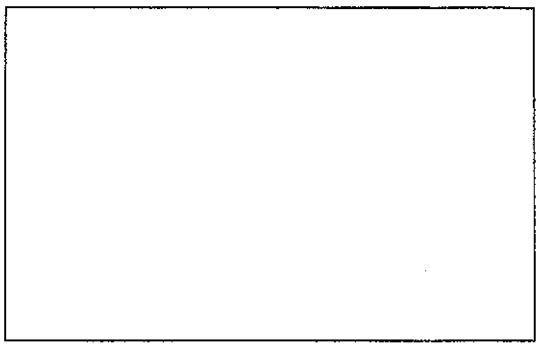
Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Ba 233.527



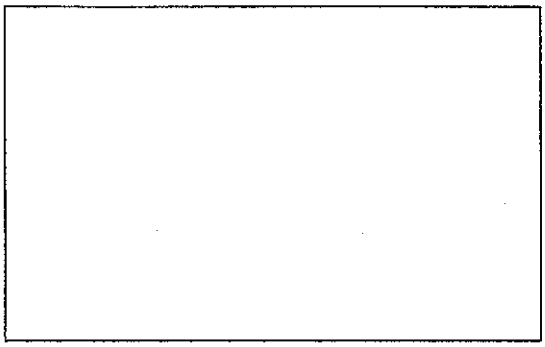
7

Be 313.107



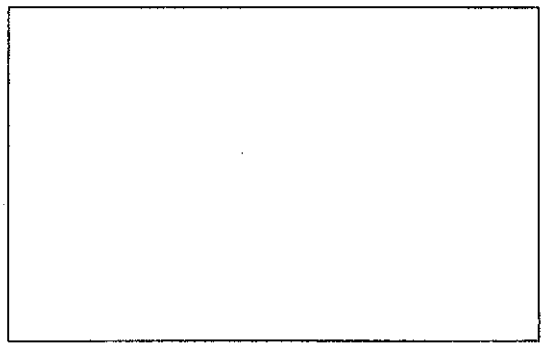
8

Ca 317.933



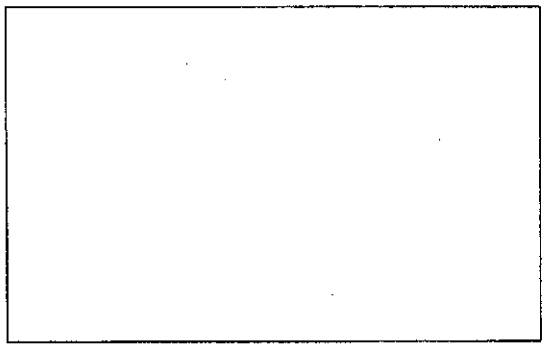
9

Cd 228.802



10

Cd 226.502



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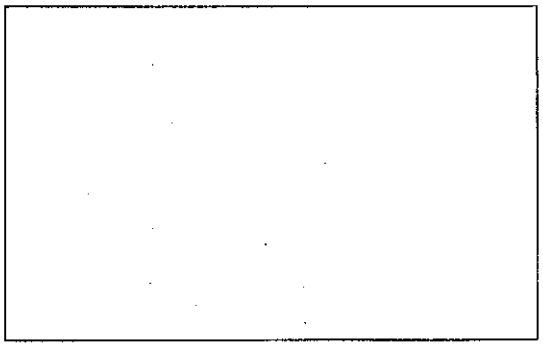
Co 228.616



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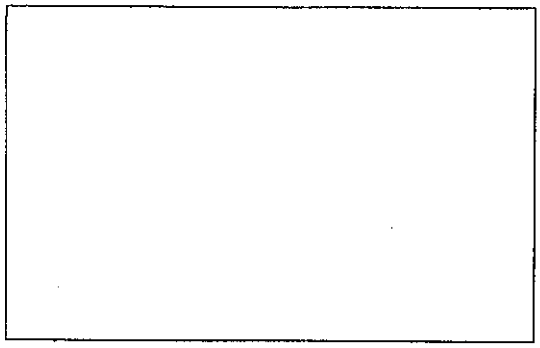
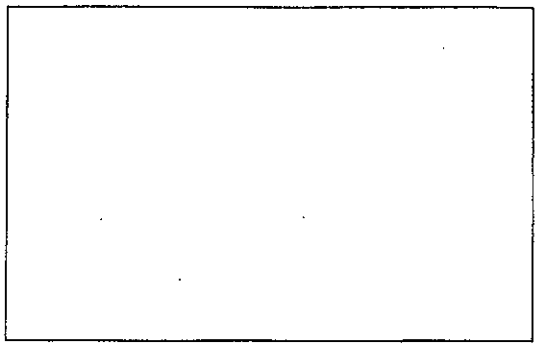
Cr 267.716



13

Cr 205.560



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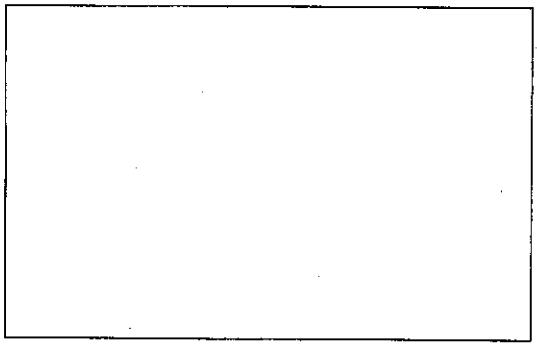
Cu 324.752



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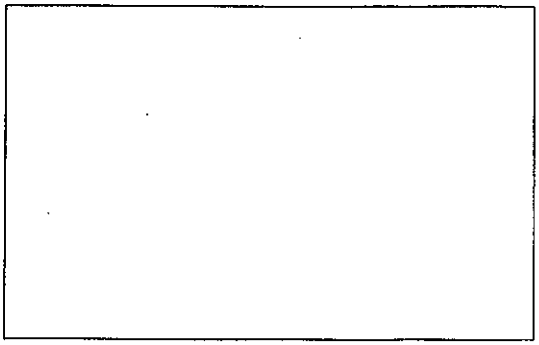
Fe 238.204



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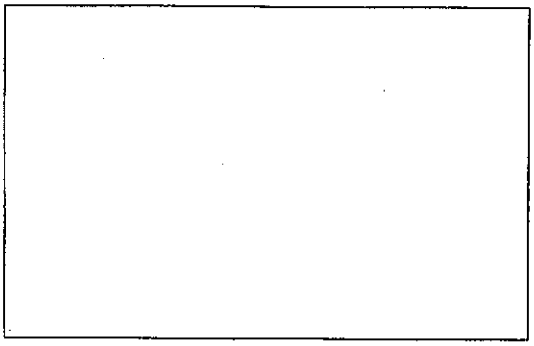
K 766.490



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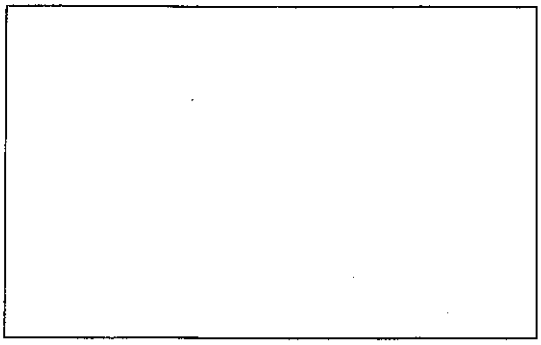
Mg 285.213



18

Mn 257.610

19

Mo 202.031

20

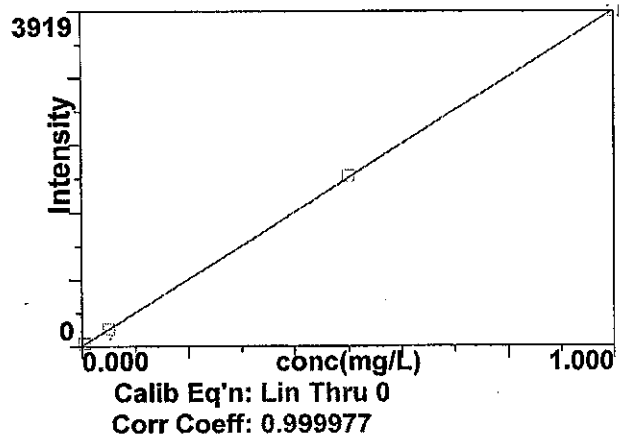
Na 589.592

21

Ni 231.604

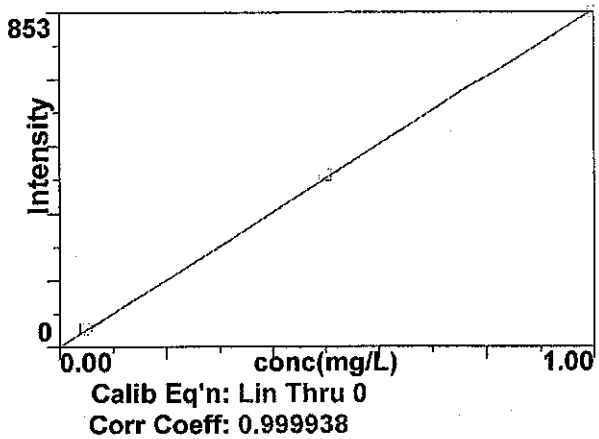
22

Pb 220.353



23

Pb 217.000



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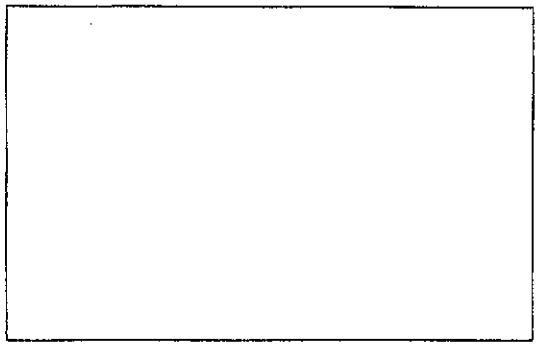
Sb 206.836



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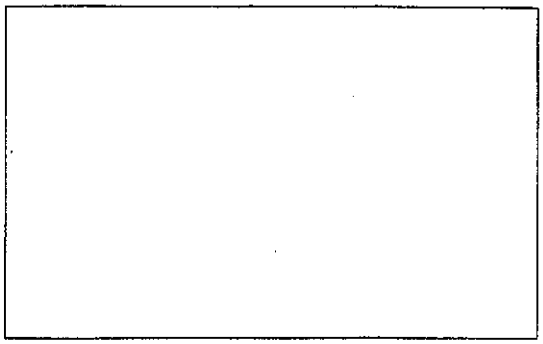
Se 203.985



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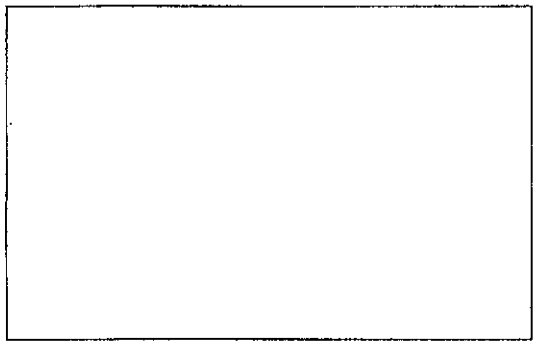
Se 196.026



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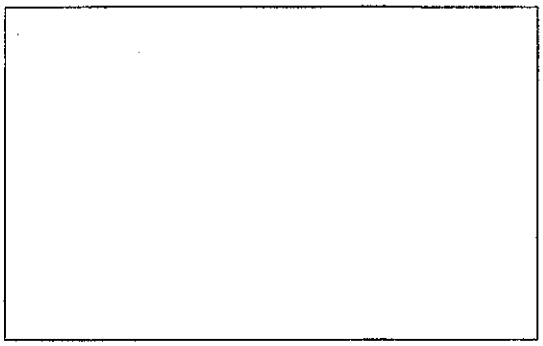
Si 212.412



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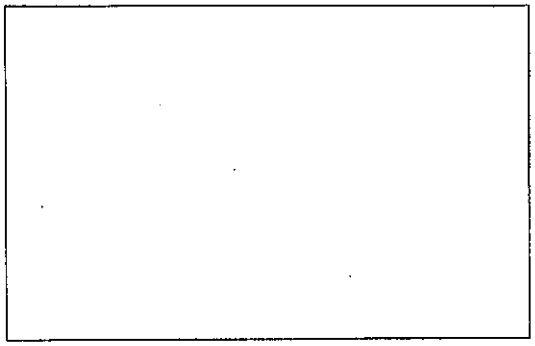
Sn 189.927



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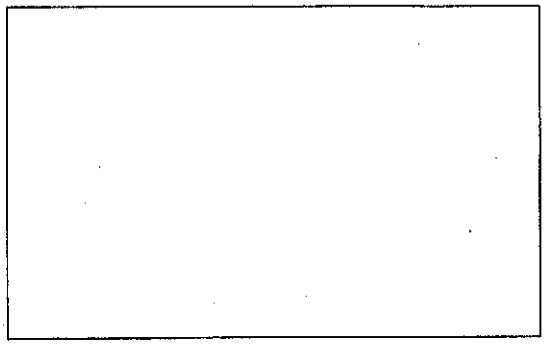
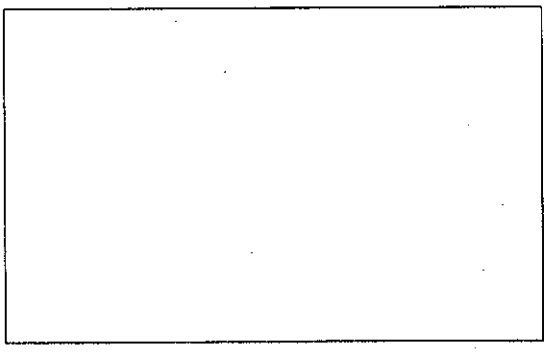
Ti 334.940



30

Method: ISIS 080714 6010SOIL
Result: 090614 B15138

Tl 190.801



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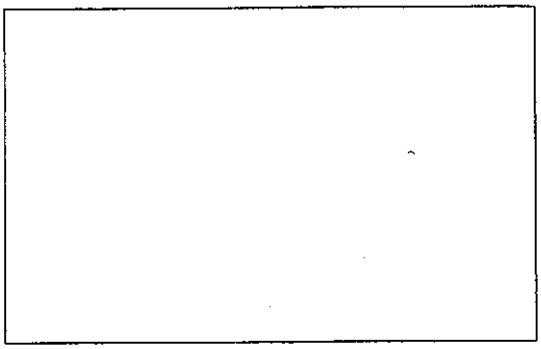
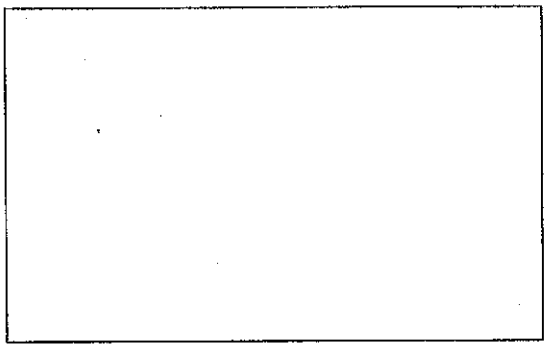
U 385.958



32

V 292.402



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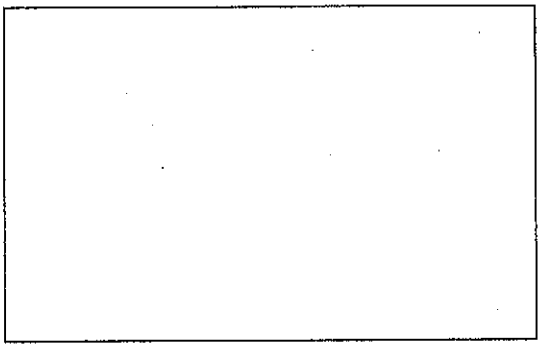
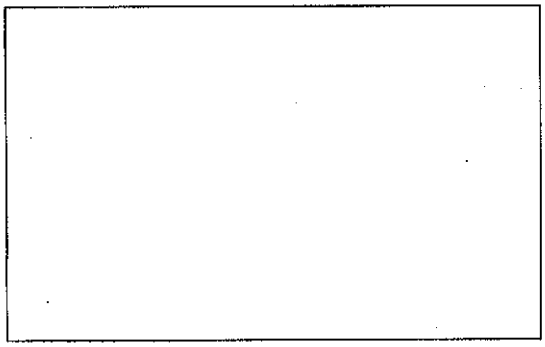
Zn 206.200



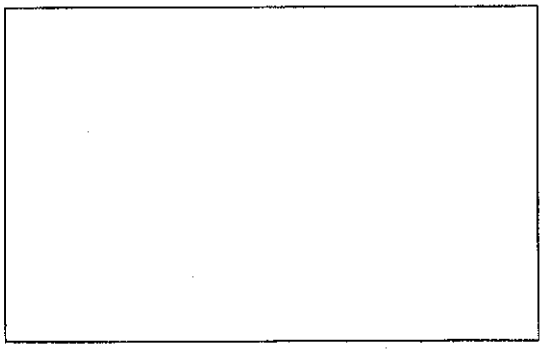
36

Sr 421.552



37

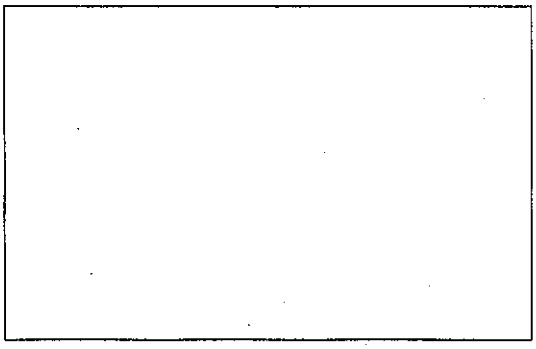
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 090614 B15138

U 424.167



39

Analysis Begun

Start Time: 9/6/2014 1:02:09 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/6/2014 1:02:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	626452.7	4975.59	0.79%	100.00	%
Pb 220.353†	-37.8	3.93	10.38%	[0.00]	mg/L
Pb 217.000†	6.1	5.21	85.02%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 9/6/2014 1:03:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	614747.4	3147.27	0.51%	98.132	%
Pb 220.353†	30.7	1.49	4.86%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 409
Date Collected: 9/6/2014 1:04:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	604306.0	5151.04	0.85%	96.465	%
Pb 220.353†	202.5	7.62	3.76%	[0.05]	mg/L
Pb 217.000†	46.4	3.02	6.51%	[0.05]	mg/L

==========

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:06:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	617563.2	8147.77	1.32%	98.581	%
Pb 220.353†	1990.2	21.18	1.06%	[0.50]	mg/L
Pb 217.000†	437.6	8.65	1.98%	[0.50]	mg/L

==========

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 9/6/2014 1:07:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	628911.3	3256.22	0.52%	100.39	%
Pb 220.353†	3919.5	33.29	0.85%	[1.00]	mg/L
Pb 217.000†	852.7	7.36	0.86%	[1.00]	mg/L

==========

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 9/6/2014 1:08:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units

Y 371.029 626824.1 4963.21 0.79% 100.06 %

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Pb 220.353	4	Lin Thru 0	0.0	3932	0.00000	0.999977	
Pb 217.000	3	Lin Thru 0	0.0	857.4	0.00000	0.999938	

User canceled analysis.

Analysis Begun

Start Time: 9/6/2014 1:09:56 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 9/6/2014 1:09:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	620415.8	99.036	%	0.3961				0.40%
Pb 220.353†	1971.3	0.50134	mg/L	0.002833	0.50134	mg/L	0.002833	0.57%
QC value within limits for Pb 220.353 Recovery = 100.27%								
Pb 217.000†	433.4	0.50550	mg/L	0.012268	0.50550	mg/L	0.012268	2.43%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/6/2014 1:10:55 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/6/2014 10:34:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090614 B15138.sif
Batch ID: 090614 B15138
Results Data Set: 090614 B15138
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/6/2014 1:10:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	625512.0	99.850	%	0.3285				0.33%
Pb 220.353†	1.8	0.00047	mg/L	0.001575	0.00047	mg/L	0.001575	334.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.4	-0.00162	mg/L	0.002749	-0.00162	mg/L	0.002749	169.67%

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 9/6/2014 1:12:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	625462.7	99.842	%	0.8518				0.85%
Pb 220.353†	27.1	0.00688	mg/L	0.002718	0.00688	mg/L	0.002718	39.48%
QC value within limits for Pb 220.353 Recovery = 137.69%								
Pb 217.000†	6.8	0.00795	mg/L	0.006236	0.00795	mg/L	0.006236	78.49%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 9/6/2014 1:13:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	627190.1	100.12	%	0.545				0.54%
Pb 220.353†	1890.1	0.48071	mg/L	0.007533	0.48071	mg/L	0.007533	1.57%
QC value within limits for Pb 220.353 Recovery = 96.14%								
Pb 217.000†	453.7	0.52916	mg/L	0.004519	0.52916	mg/L	0.004519	0.85%

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 9/6/2014 1:14:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	257.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	626414.3	99.994	%	0.2446				0.24%
Pb 220.353†	-39.1	-0.00995	mg/L	0.000752	-0.00995	mg/L	0.000752	7.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	12.9	0.01500	mg/L	0.000822	0.01500	mg/L	0.000822	5.48%

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-15138
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 9/6/2014 1:15:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15138

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: MB-15138

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	592709.7	94.614	%	1.3798				1.46%
Pb 220.353†	7.0	0.00179	mg/L	0.002709	0.00179	mg/L	0.002709	151.28%
Pb 217.000†	2.8	0.00328	mg/L	0.004845	0.00328	mg/L	0.004845	147.86%

Sequence No.: 17
Sample ID: LCS-15138
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 9/6/2014 1:17:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15138

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: LCS-15138

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	579014.7	92.428	%	0.9001				0.97%
Pb 220.353†	1838.2	0.46750	mg/L	0.006432	0.46750	mg/L	0.006432	1.38%
Pb 217.000†	415.3	0.48443	mg/L	0.002961	0.48443	mg/L	0.002961	0.61%

Matrix Recovery Check: LCS-15138

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Pb 220.353	0.50179	0.46750	0.006	mg/L	93.1
Pb 217.000	0.50328	0.48443	0.003	mg/L	96.2

Sequence No.: 18
Sample ID: 1409136-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 9/6/2014 1:18:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-001A

Analyte	Back Pressure	Flow

All 259.0 kPa 0.55 L/min

Mean Data: 1409136-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	756250.2	120.72	%	0.609				0.50%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.7%								
Pb 220.353†	250.0	0.06357	mg/L	0.001107	0.06357	mg/L	0.001107	1.74%
Pb 217.000†	78.9	0.09201	mg/L	0.003967	0.09201	mg/L	0.003967	4.31%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 19
Sample ID: 1409136-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 9/6/2014 1:19:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-002A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409136-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	694207.8	110.82	%	1.113				1.00%
Pb 220.353†	2012.0	0.51170	mg/L	0.003476	0.51170	mg/L	0.003476	0.68%
Pb 217.000†	553.2	0.64524	mg/L	0.020651	0.64524	mg/L	0.020651	3.20%

Sequence No.: 20
Sample ID: 1409219-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 305
Date Collected: 9/6/2014 1:21:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-001A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	656857.2	104.85	%	0.222				0.21%
Pb 220.353†	444.9	0.11315	mg/L	0.001795	0.11315	mg/L	0.001795	1.59%
Pb 217.000†	163.9	0.19116	mg/L	0.020084	0.19116	mg/L	0.020084	10.51%

Sequence No.: 21
Sample ID: 1409219-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 306
Date Collected: 9/6/2014 1:22:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-002A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-002A

Analyte	Mean Corrected	Calib.			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	669296.1	106.84	%	0.398				0.37%
Pb 220.353†	564.7	0.14361	mg/L	0.000308	0.14361	mg/L	0.000308	0.21%
Pb 217.000†	184.1	0.21477	mg/L	0.009396	0.21477	mg/L	0.009396	4.38%

Sequence No.: 22
Sample ID: 1409219-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 307
Date Collected: 9/6/2014 1:23:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-003A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-003A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	670766.0	107.07	%	0.922				0.86%
Pb 220.353†	1756.7	0.44678	mg/L	0.007722	0.44678	mg/L	0.007722	1.73%
Pb 217.000†	475.1	0.55409	mg/L	0.006729	0.55409	mg/L	0.006729	1.21%

Sequence No.: 23
Sample ID: 1409219-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 308
Date Collected: 9/6/2014 1:24:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-004A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-004A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	667046.3	106.48	%	1.061				1.00%
Pb 220.353†	1506.7	0.38319	mg/L	0.004714	0.38319	mg/L	0.004714	1.23%
Pb 217.000†	421.2	0.49122	mg/L	0.017189	0.49122	mg/L	0.017189	3.50%

Sequence No.: 24
Sample ID: 1409219-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 309
Date Collected: 9/6/2014 1:26:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-005A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-005A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	759619.8	121.26	%	0.523				0.43%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.3%								
Pb 220.353†	378.1	0.09617	mg/L	0.001988	0.09617	mg/L	0.001988	2.07%
Pb 217.000†	139.5	0.16274	mg/L	0.004767	0.16274	mg/L	0.004767	2.93%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 25
Sample ID: 1409219-006A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 9/6/2014 1:27:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-006A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-006A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	704239.4	112.42	%	0.752				0.67%
Pb 220.353†	308.8	0.07855	mg/L	0.001460	0.07855	mg/L	0.001460	1.86%
Pb 217.000†	120.7	0.14083	mg/L	0.001338	0.14083	mg/L	0.001338	0.95%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:28:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	647937.0	103.43	%	0.508				0.49%
Pb 220.353†	1976.7	0.50274	mg/L	0.007664	0.50274	mg/L	0.007664	1.52%
QC value within limits for Pb 220.353 Recovery = 100.55%								
Pb 217.000†	433.3	0.50538	mg/L	0.002646	0.50538	mg/L	0.002646	0.52%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/6/2014 1:29:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	654398.9	104.46	%	1.306				1.25%
Pb 220.353†	9.2	0.00234	mg/L	0.000403	0.00234	mg/L	0.000403	17.21%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.5	-0.00056	mg/L	0.000415	-0.00056	mg/L	0.000415	73.93%

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT

Autosampler Location: 3
Date Collected: 9/6/2014 1:31:12 PM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	652364.7	104.14	%	1.581				1.52%
Pb 220.353†	3.2	-0.00080	mg/L	0.001165	-0.00080	mg/L	0.001165	145.43%
Pb 217.000†	0.4	0.00049	mg/L	0.004759	0.00049	mg/L	0.004759	968.92%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: 1409219-007A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 311
Date Collected: 9/6/2014 1:32:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-007A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-007A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	655877.1	104.70	%	0.421				0.40%
Pb 220.353†	3386.1	0.86118	mg/L	0.004060	0.86118	mg/L	0.004060	0.47%
Pb 217.000†	847.4	0.98835	mg/L	0.010016	0.98835	mg/L	0.010016	1.01%

Sequence No.: 30
Sample ID: 1409219-008A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 312
Date Collected: 9/6/2014 1:33:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-008A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-008A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	655456.0	104.63	%	1.110				1.06%
Pb 220.353†	175.8	0.04472	mg/L	0.002683	0.04472	mg/L	0.002683	6.00%
Pb 217.000†	84.2	0.09816	mg/L	0.004355	0.09816	mg/L	0.004355	4.44%

Sequence No.: 31
Sample ID: 1409219-008AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 313
Date Collected: 9/6/2014 1:35:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-008AMS

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-008AMS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	658880.7	105.18	%	0.269				0.26%
Pb 220.353†	1690.4	0.42991	mg/L	0.001528	0.42991	mg/L	0.001528	0.36%
Pb 217.000†	467.3	0.54508	mg/L	0.012950	0.54508	mg/L	0.012950	2.38%

Matrix Recovery Check: 1409219-008AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Pb 220.353	0.54472	0.42991	0.002	mg/L	77.0
Pb 217.000	0.59816	0.54508	0.013	mg/L	89.4

Sequence No.: 32
Sample ID: 1409219-008AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 314
Date Collected: 9/6/2014 1:36:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-008AMSD

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-008AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	654784.1	104.52	%	1.135				1.09%
Pb 220.353†	1665.5	0.42359	mg/L	0.004216	0.42359	mg/L	0.004216	1.00%
Pb 217.000†	459.6	0.53612	mg/L	0.015462	0.53612	mg/L	0.015462	2.88%

Matrix Recovery Check: 1409219-008AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Pb 220.353	0.54472	0.42359	0.004	mg/L	75.8
Pb 217.000	0.59816	0.53612	0.015	mg/L	87.6

Sequence No.: 33
Sample ID: 1409219-009A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 315
Date Collected: 9/6/2014 1:37:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-009A

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-009A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	716882.5	114.44	%	0.890				0.78%
Pb 220.353†	2493.7	0.63422	mg/L	0.006450	0.63422	mg/L	0.006450	1.02%
Pb 217.000†	679.3	0.79232	mg/L	0.021717	0.79232	mg/L	0.021717	2.74%

Sequence No.: 34

Autosampler Location: 316

Sample ID: 1409136-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 9/6/2014 1:38:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409136-001A 2X

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409136-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	736517.6	117.57	%	0.438				0.37%
Pb 220.353†	160.6	0.04085	mg/L	0.002337	0.04085	mg/L	0.002337	5.72%
Pb 217.000†	50.7	0.05908	mg/L	0.003501	0.05908	mg/L	0.003501	5.93%

Sequence No.: 35
Sample ID: 1409219-005A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 317
Date Collected: 9/6/2014 1:40:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-005A 2X

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-005A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	724923.5	115.72	%	1.305				1.13%
Pb 220.353†	239.4	0.06089	mg/L	0.002316	0.06089	mg/L	0.002316	3.80%
Pb 217.000†	72.0	0.08394	mg/L	0.000959	0.08394	mg/L	0.000959	1.14%

Sequence No.: 36
Sample ID: 1409219-008APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 318
Date Collected: 9/6/2014 1:41:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409219-008APS

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: 1409219-008APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	671414.2	107.18	%	0.963				0.90%
Pb 220.353†	1644.8	0.41832	mg/L	0.001302	0.41832	mg/L	0.001302	0.31%
Pb 217.000†	427.5	0.49862	mg/L	0.006433	0.49862	mg/L	0.006433	1.29%

Sequence No.: 37
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/6/2014 1:42:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	654848.5	104.53	%	0.272				0.26%
Pb 220.353†	1985.2	0.50488	mg/L	0.001096	0.50488	mg/L	0.001096	0.22%
QC value within limits for Pb 220.353 Recovery = 100.98%								
Pb 217.000†	441.8	0.51533	mg/L	0.015787	0.51533	mg/L	0.015787	3.06%

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/6/2014 1:43:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	663385.7	105.90	%	0.294				0.28%
Pb 220.353†	7.8	0.00198	mg/L	0.000903	0.00198	mg/L	0.000903	45.50%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.1	-0.00129	mg/L	0.003016	-0.00129	mg/L	0.003016	233.99%

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/6/2014 1:45:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

EL 9/6/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	658702.0	105.15	%	1.619				1.54%
Pb 220.353†	6.2	0.00157	mg/L	0.002289	0.00157	mg/L	0.002289	145.60%
Pb 217.000†	-3.5	-0.00408	mg/L	0.006310	-0.00408	mg/L	0.006310	154.49%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: DI RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 7
Date Collected: 9/6/2014 1:46:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: DI RINSE

Analyte	Back Pressure	Flow

All 259.0 kPa 0.55 L/min

Mean Data: DI RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	655359.9	104.61	%	0.140				0.13%
Pb 220.353†	-0.4	-0.00010	mg/L	0.000318	-0.00010	mg/L	0.000318	330.73%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-3.0	-0.00350	mg/L	0.007069	-0.00350	mg/L	0.007069	201.85%

All analyte(s) passed QC.

[redacted] 9/8/2014

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-001 **Collection Date:** 9/5/2014 8:10:00 AM
Client Sample ID: FFOR-CF-0072 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.2 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-002 **Collection Date:** 9/5/2014 9:05:00 AM
Client Sample ID: FFOR-CF-0073 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-003 **Collection Date:** 9/5/2014 11:16:00 AM
Client Sample ID: FFOR-CF-0074 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.9 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-004 **Collection Date:** 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.1 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-005 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0076 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.1 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-006 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0077 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.4 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-009 **Collection Date:** 9/5/2014 1:46:00 PM
Client Sample ID: FFOR-CF-0111 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.9 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-010 **Collection Date:** 9/5/2014 1:55:00 PM
Client Sample ID: FFOR-CF-0112 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.9 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Lab ID: 1409275-011 **Collection Date:** 9/5/2014 2:40:00 PM
Client Sample ID: FFOR-CF-0113 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11 ✓	1.0		wt%	1	R21052	9/6/2014 3:45:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-5-14				Thermometer ID: P-Moist Therm-4	
Oven Name: Hephaestus	Analyst: cg			Thermometer Exp Date: 7/17/2015	
Start time: 9-6-14 3:45pm	Start Temp: 110C			Reviewed by: ✓ AF 9/8/2014	
End time: 9-8-14 8:18am	End Temp: 109C				

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1409275-001a	32.2 ✓	39.77 ✓				7.6050		#VALUE!
1409275-002a	31.9 ✓	39.70 ✓				7.8450		#VALUE!
1409275-003a	32.1 ✓	40.07 ✓				7.9500		#VALUE!
1409275-004a	32.2 ✓	38.95 ✓				6.7040		#VALUE!
1409275-005a	32.5 ✓	40.36 ✓				7.8760		#VALUE!
1409275-006a	31.9 ✓	38.82 ✓				6.9590		#VALUE!
1409275-009a	31.9 ✓	39.97 ✓				8.0450		#VALUE!
1409275-010a	32.2 ✓	39.48 ✓				7.2800		#VALUE!
1409275-011a	31.7 ✓	39.25 ✓				7.5620		#VALUE!
MeOH Kits								#VALUE!
1409275-001a	25.6 ✓	40.50 ✓	1.00	2.00	2.00	14.9000	0.0000	0.6711
1409275-002a	26.1 ✓	39.39 ✓	1.00	2.00	2.00	13.2900	0.0000	0.7524
1409275-003a	25.7 ✓	40.56 ✓	1.00	2.00	2.00	14.8600	0.0000	0.6729
1409275-004a	25.7 ✓	38.80 ✓	1.00	2.00	2.00	13.1000	0.0000	0.7634
1409275-005a	25.9 ✓	40.18 ✓	1.00	2.00	2.00	14.2800	0.0000	0.7003
1409275-006a	25.8 ✓	39.03 ✓	1.00	2.00	2.00	13.2300	0.0000	0.7559
1409275-009a	25.6 ✓	38.95 ✓	1.00	2.00	2.00	13.3500	0.0000	0.7491
1409275-010a	25.6 ✓	39.19 ✓	1.00	2.00	2.00	13.5900	0.0000	0.7358
1409275-011a	25.6 ✓	38.82 ✓	1.00	2.00	2.00	13.2200	0.0000	0.7564

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**
HEAL ID #

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**
HEAL ID #

1409275-011a $\frac{10g}{13.58g} = 0.7564$ cgg 9-8-14 ✓ AF 9/8/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 9-5-14		Thermometer ID: P-Moist Therm-4
Oven Name: Hephaestus	Analyst: cg	Thermometer Exp Date: 7/17/2015
Start time: 9-6-14 3:45pm	Start Temp: 110C	Reviewed by: ✓ DF 9/8/2014
End time: 9-8-14 8:18am	End Temp: 109C	

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Pmoist								#VALUE!
1409275-001a			1.37 ✓	20.08 ✓	18.54 ✓		8.2309	#VALUE!
1409275-002a			1.36 ✓	20.47 ✓	18.39 ✓		10.8844	#VALUE!
1409275-003a			1.32 ✓	21.33 ✓	19.74 ✓		7.9460	#VALUE!
1409275-004a			1.38 ✓	20.94 ✓	19.36 ✓		8.0777	#VALUE!
1409275-005a			1.40 ✓	21.78 ✓	19.92 ✓		9.1266	#VALUE!
1409275-006a			1.40 ✓	21.32 ✓	19.45 ✓		9.3876	#VALUE!
1409275-009a			1.36 ✓	20.64 ✓	19.11 ✓		7.9357	#VALUE!
1409275-010a			1.38 ✓	21.70 ✓	19.90 ✓		8.8583	#VALUE!
1409275-011a			1.34 ✓	20.34 ✓	18.24 ✓		11.0526	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1409275-009a

$\frac{20.64 - 19.11}{20.64 - 1.36} \times 100 = 7.9357\%$

cg 9-8-14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

✓ DF 9/8/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/8/2014 9:15:49 A**
Prep End Date: **9/8/2014 10:15:09 A**

9/8/2014

Prep Batch ID: **15165** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Initial Temp: **°C** Final Temp **°C**

cog 8-14

Prep Factor Units:
mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15165		Solid			5	0	0	5	1.000	9/8/2014	9/8/2014
LCS-15165		Solid			5	0	0	5	1.000	9/8/2014	9/8/2014
1409275-002A	FFOR-CF-0073	MeOH (Soil)			7.845	0	0	5	0.637	9/8/2014	9/8/2014
1409275-002AMS		MeOH (Soil)			7.89	0	0	5	0.634	9/8/2014	9/8/2014
1409275-002AMSD		MeOH (Soil)			7.85	0	0	5	0.637	9/8/2014	9/8/2014
1409275-004A	FFOR-CF-0075	MeOH (Soil)			6.704	0	0	5	0.746	9/8/2014	9/8/2014
1409275-005A	FFOR-CF-0076	MeOH (Soil)			7.876	0	0	5	0.635	9/8/2014	9/8/2014
1409275-006A	FFOR-CF-0077	MeOH (Soil)			6.959	0	0	5	0.718	9/8/2014	9/8/2014
1409275-009A	FFOR-CF-0111	MeOH (Soil)			8.045	0	0	5	0.622	9/8/2014	9/8/2014
1409275-010A	FFOR-CF-0112	MeOH (Soil)			7.28	0	0	5	0.687	9/8/2014	9/8/2014
1409275-011A	FFOR-CF-0113	MeOH (Soil)			7.562	0	0	5	0.661	9/8/2014	9/8/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8073	8260-5035 Low LCS/MS/MSD	lcs/ms/msd	26527	Container-01 of 01	1	µL

JR 9/9/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409275**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-001 **Collection Date:** 9/5/2014 8:10:00 AM
Client Sample ID: FFOR-CF-0072 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	10000	1100		mg/Kg-dry	100	15139	9/8/2014 12:51:32 PM
Motor Oil Range Organics (MRO)	ND	5500		mg/Kg-dry	100	15139	9/8/2014 12:51:32 PM
Surr: DNOP	0	57.9-140	S	%REC	100	15139	9/8/2014 12:51:32 PM

Lab ID: 1409275-002 **Collection Date:** 9/5/2014 9:05:00 AM
Client Sample ID: FFOR-CF-0073 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15139	9/6/2014 8:03:23 PM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	15139	9/6/2014 8:03:23 PM
Surr: DNOP	83.5	57.9-140		%REC	1	15139	9/6/2014 8:03:23 PM

Lab ID: 1409275-003 **Collection Date:** 9/5/2014 11:16:00 AM
Client Sample ID: FFOR-CF-0074 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	2000	110		mg/Kg-dry	10	15139	9/6/2014 8:24:46 PM
Motor Oil Range Organics (MRO)	ND	540		mg/Kg-dry	10	15139	9/6/2014 8:24:46 PM
Surr: DNOP	0	57.9-140	S	%REC	10	15139	9/6/2014 8:24:46 PM

Lab ID: 1409275-004 **Collection Date:** 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15139	9/6/2014 8:46:06 PM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	15139	9/6/2014 8:46:06 PM
Surr: DNOP	84.4	57.9-140		%REC	1	15139	9/6/2014 8:46:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-011
Client Sample ID: FFOR-CF-0113
Collection Date: 9/5/2014 2:40:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	15139	9/6/2014 10:32:52 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	15139	9/6/2014 10:32:52 PM
Surr: DNOP	90.4	57.9-140		%REC	1	15139	9/6/2014 10:32:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Reviewed By: 9/9/14

Prep Start Date: 9/6/2014 9:56:22 A

Prep End Date:

Prep Batch ID: 15139 Prep Code: 8015_S_PREP Technician: Janice Easley

Initial Temp: °C Final Temp °C

Prep Factor Units: mL / g

BN 9.8.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15139		Soil			10	0	0	10	1.000	9/5/2014	BN 9.8.14
LCS-15139		Soil			10	0	0	10	1.000	9/5/2014	
1409172-001A	3:1 Stab. Cuttings Con	Soil			60.33	0	0	60	0.995	9/5/2014	
1409226-001A	SB-1 9' BGS	Soil			9.99	0	0	10	1.001	9/5/2014	
1409226-001AMS		Soil			9.99	0	0	10	1.000	9/5/2014	
1409226-001AMSD		Soil			10.03	0	0	10	1.000	9/5/2014	
1409273-001A	1409051025	Soil			BN 9.6.14 NOT USED	0	0	10	1.000	9/6/2014	
1409273-002A	1409051125	Soil				0	0	10	1.000	9/6/2014	
1409273-003A	1409051200	Soil				0	0	10	1.000	9/6/2014	
1409275-001A	FFOR-CF-0072	MeOH (Soil)			9.99	0	0	10	1.000	9/6/2014	
1409275-002A	FFOR-CF-0073	MeOH (Soil)			10.14	0	0	10	1.000	9/6/2014	
1409275-003A	FFOR-CF-0074	MeOH (Soil)			10.04	0	0	10	1.000	9/6/2014	
1409275-004A	FFOR-CF-0075	MeOH (Soil)			9.92	0	0	10	1.000	9/6/2014	
1409275-005A	FFOR-CF-0076	MeOH (Soil)			10.10	0	0	10	1.000	9/6/2014	
1409275-006A	FFOR-CF-0077	MeOH (Soil)			10.01	0	0	10	1.000	9/6/2014	
1409275-009A	FFOR-CF-0111	MeOH (Soil)			10.17	0	0	10	1.000	9/6/2014	
1409275-010A	FFOR-CF-0112	MeOH (Soil)			10.17	0	0	10	1.000	9/6/2014	
1409275-011A	FFOR-CF-0113	MeOH (Soil)			9.98	0	0	10	1.000	9/6/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4652	Sodium Sulfate BN 9.8.14	14934	Container-01 of 01	0	mL
Chemical	4718	Ottawa Sand	15185	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Samp Type	Container#	Container ID	Amount Added	Amount Unit

272

1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-15139	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15139 <D>.dat	1
6	Unknown	0	1	LCS-15139	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15139 <D>.dat	1
7	Unknown	0	1	MB-15157	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15157 <D>.dat	1
8	Unknown	0	1	LCS-15157	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15157 <D>.dat	1
9	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
10	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
11	Unknown	0	1	1409275-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-002A <D>.dat	1
12	Unknown	0	1	1409275-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-003A <D>.dat	1
13	Unknown	0	1	1409275-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-004A <D>.dat	1
14	Unknown	0	1	1409275-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-005A <D>.dat	1
15	Unknown	0	1	1409275-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-006A <D>.dat	1
16	Unknown	0	1	1409275-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-009A <D>.dat	1
17	Unknown	0	1	1409275-010A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-010A <D>.dat	1
18	Unknown	0	1	1409275-011A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-011A <D>.dat	1

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						<D>.dat	
20	Unknown	0	1	1409276-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001A <D>.dat	1
21	Unknown	0	1	1409276-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001AMS <D>.dat	1
22	Unknown	0	1	1409276-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-001AMSD <D>.dat	1
23	Unknown	0	1	1409276-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-002A <D>.dat	1
24	Unknown	0	1	1409276-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-003A <D>.dat	1
25	Unknown	0	1	1409276-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-004A <D>.dat	1
26	Unknown	0	1	1409276-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409276-005A <D>.dat	1
27	Unknown	0	1	1409277-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-001A <D>.dat	1
28	Unknown	0	1	1409277-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-002A <D>.dat	1
29	Unknown	0	1	1409277-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-003A <D>.dat	1
30	Unknown	0	1	1409277-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-004A <D>.dat	1
31	Unknown	0	1	1409277-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-005A <D>.dat	1
32	Unknown	0	1	1409278-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-001A <D>.dat	1
33	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
34	Unknown	0	1	1409278-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-003A <D>.dat	1
35	Unknown	0	1	1409278-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-004A <D>.dat	1
36	Unknown	0	1	1409278-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-005A <D>.dat	1
37	Unknown	0	1	1409278-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-006A <D>.dat	1

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						<D>.dat	
39	Unknown	0	1	1409219-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-001A <D>.dat	1
40	Unknown	0	1	1409219-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-002A <D>.dat	1
41	Unknown	0	1	1409219-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-003A <D>.dat	1
42	Unknown	0	1	1409219-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
43	Unknown	0	1	1409219-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-005A <D>.dat	1
44	Unknown	0	1	1409219-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
45	Unknown	0	1	1409219-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-007A <D>.dat	1
46	Unknown	0	1	1409219-008A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008A <D>.dat	1
47	Unknown	0	1	1409219-008AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008AMS <D>.dat	1
48	Unknown	0	1	1409219-008AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-008AMSD <D>.dat	1
49	Unknown	0	1	1409219-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-009A <D>.dat	1
50	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
51	Unknown	0	1	1409233-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-001A <D>.dat	1
52	Unknown	0	1	1409233-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-002A <D>.dat	1
53	Unknown	0	1	1409233-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-003A <D>.dat	1
54	Unknown	0	1	1409233-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-004A <D>.dat	1
55	Unknown	0	1	1409233-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-005A <D>.dat	1
56	Unknown	0	1	1409233-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-006A <D>.dat	1

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						<D>.dat	
58	Unknown	0	1	1409226-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409226-001AMS <D>.dat	1
59	Unknown	0	1	1409226-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409226-001AMSD <D>.dat	1
60	Unknown	0	1	1409189-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409189-001A <D>.dat	1
61	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

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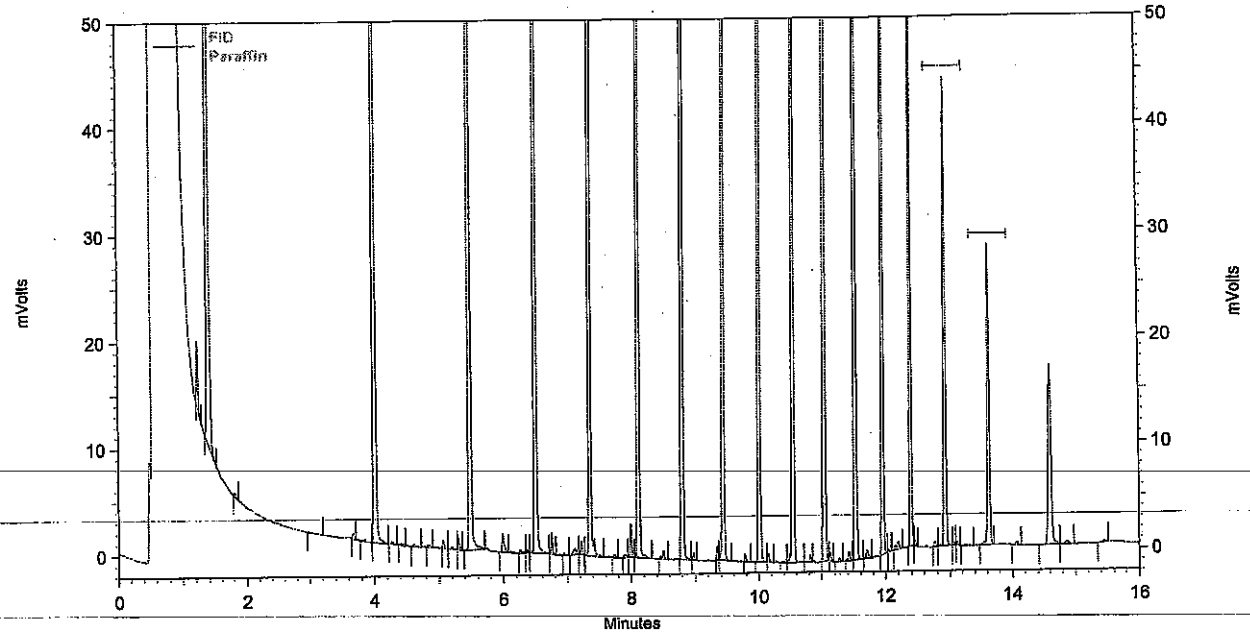
Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090614\Paraffin 09-06-14 4-46-06 PM.dat
Aquired: 9/6/2014 4:51:22 PM



FID Results

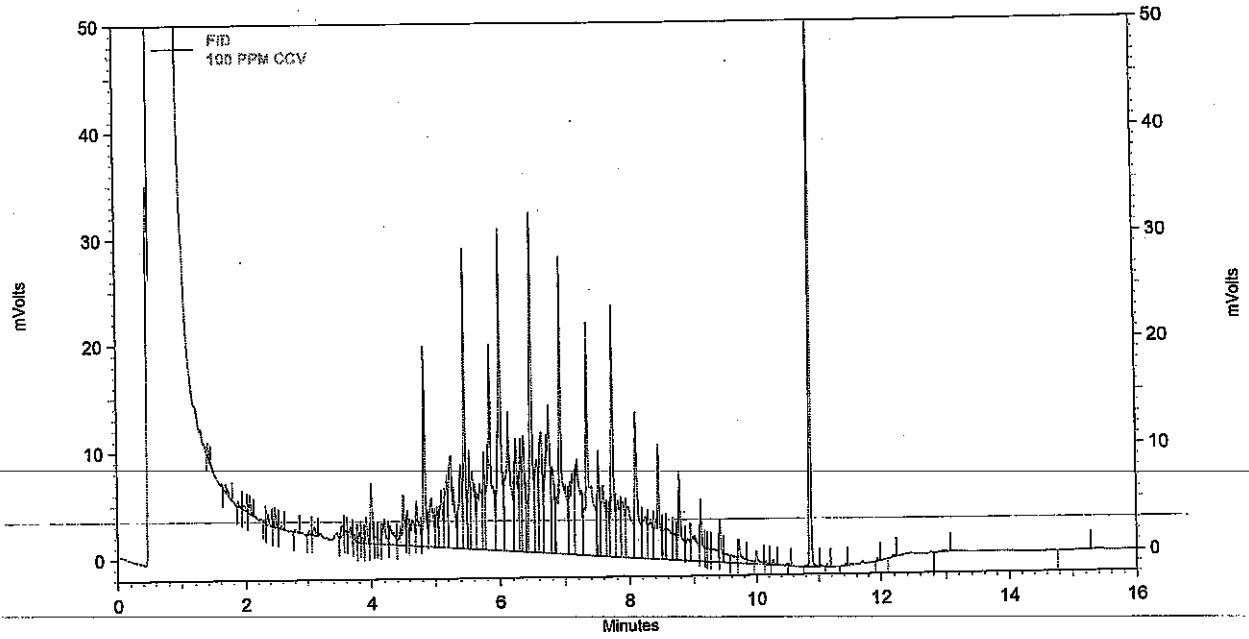
Name	Retention Time	Area	ug/ml
C8	1.397	441439	0.000
C10	4.005	545671	0.000
C12	5.472	520529	0.000
C14	6.485	485985	0.000
C16	7.339	453594	0.000
C18	8.101	419935	0.000
C20	8.789	400107	0.000
C22	9.419	377052	0.000
C24	10.000	358451	0.000
C26	10.539	359457	0.000
C28	11.040	339706	0.000
C30	11.509	285426	0.000
C32	11.952	198705	0.000
C34	12.384	120209	0.000
C36	12.912	81634	0.000
C38	13.621	64167	0.000

Analyst BW

Reviewed By JU

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-06-14 5-07-31 PM.dat
Aquired: 9/6/2014 5:12:40 PM



FID Results

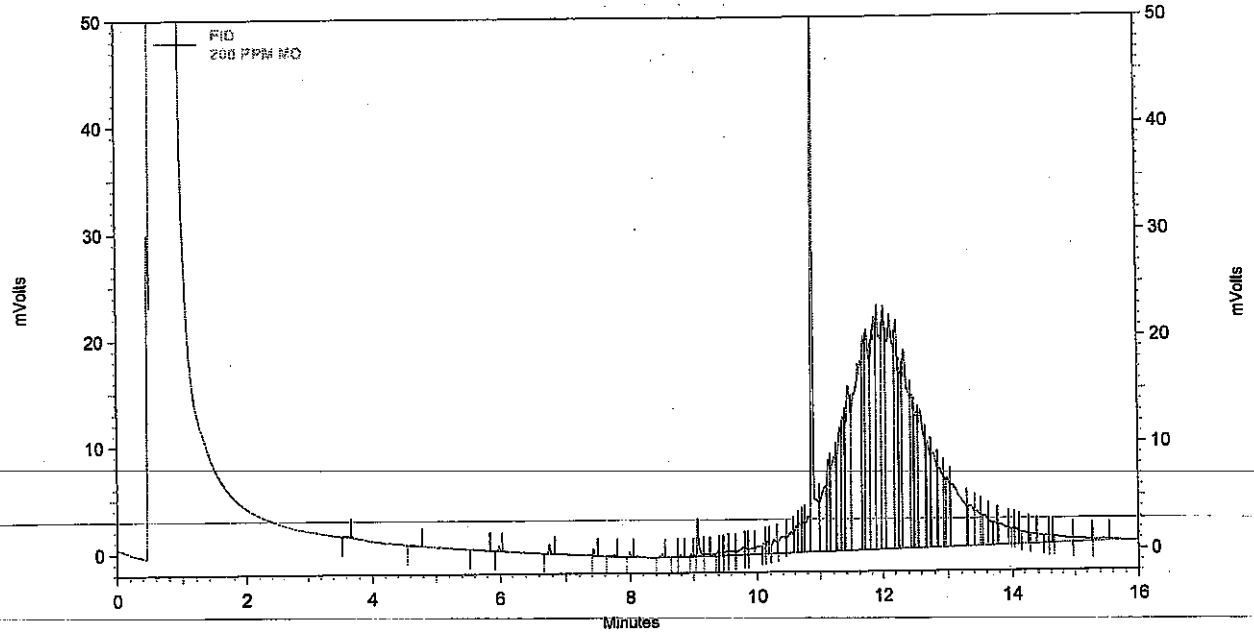
Name	Retention Time	Area	ug/ml
DNOP	10.864	96131	8.542
DRO		1632329	98.981
MRO		2582	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090614\200 PPM MO 09-06-14 5-28-46 PM.dat
Aquired: 9/6/2014 5:34:01 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	141741	12.548
DRO		67895	6.117
MRO		1625336	203.617

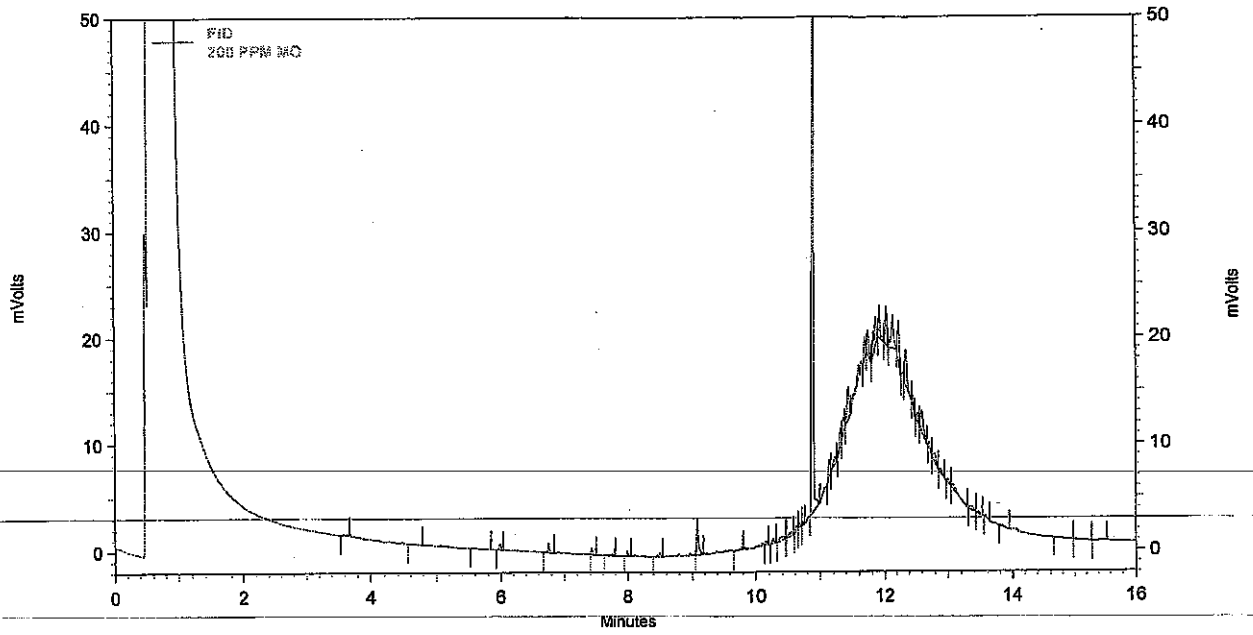
Analyst BN

Reviewed By JD

12.548
+ 9.473
3.075
+203.617
206.692
200
= 103.3% X100

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 09-06-14 5-28-46 PM.dat
Aquired: 9/6/2014 5:34:01 PM



FID Results

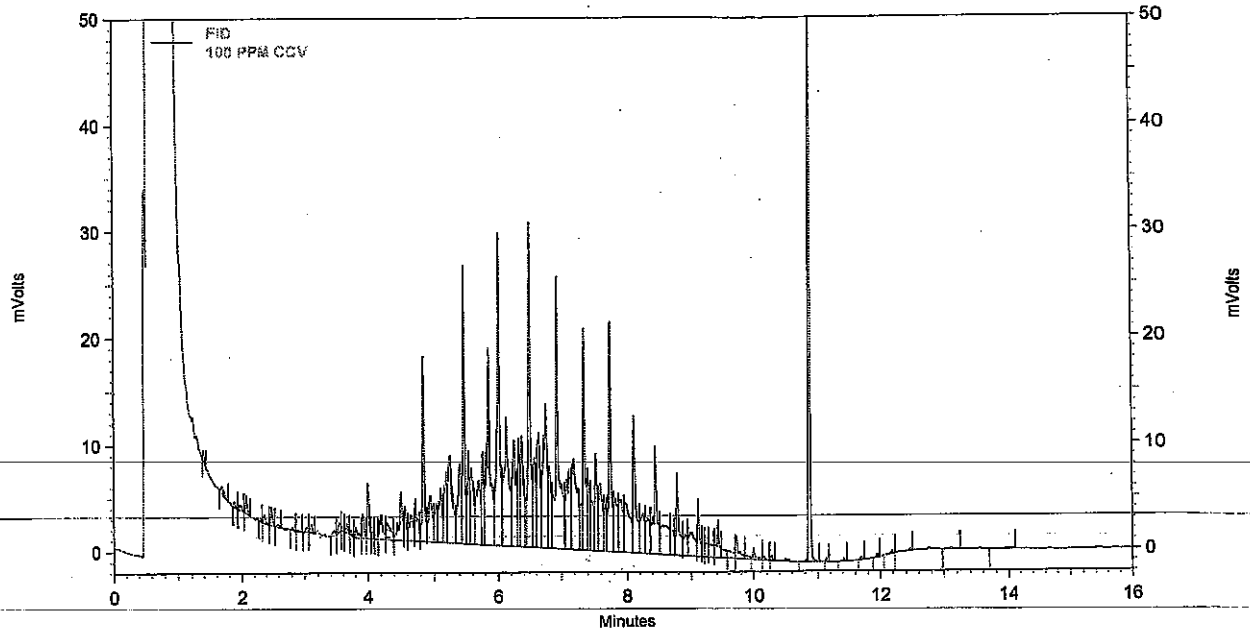
Name	Retention Time	Area	ug/ml
DNOP	10.875	106712	9.473
DRO		19247	3.219
MRO		91019	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-06-14 10-49-01 PM.dat
Aquired: 9/6/2014 10:54:13 PM



FID Results

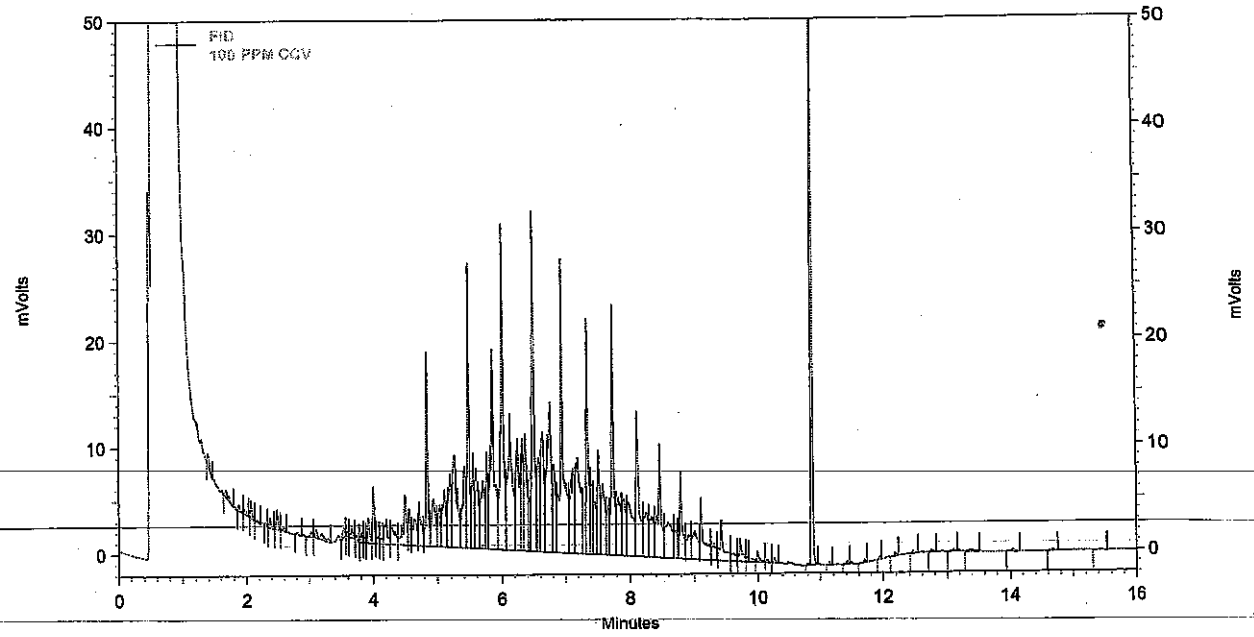
Name	Retention Time	Area	ug/ml
DNOP	10.869	97139	8.631
DRO		1544868	93.807
MRO		5025	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-07-14 5-35-12 AM.dat
Aquired: 9/7/2014 5:40:26 AM



FID Results

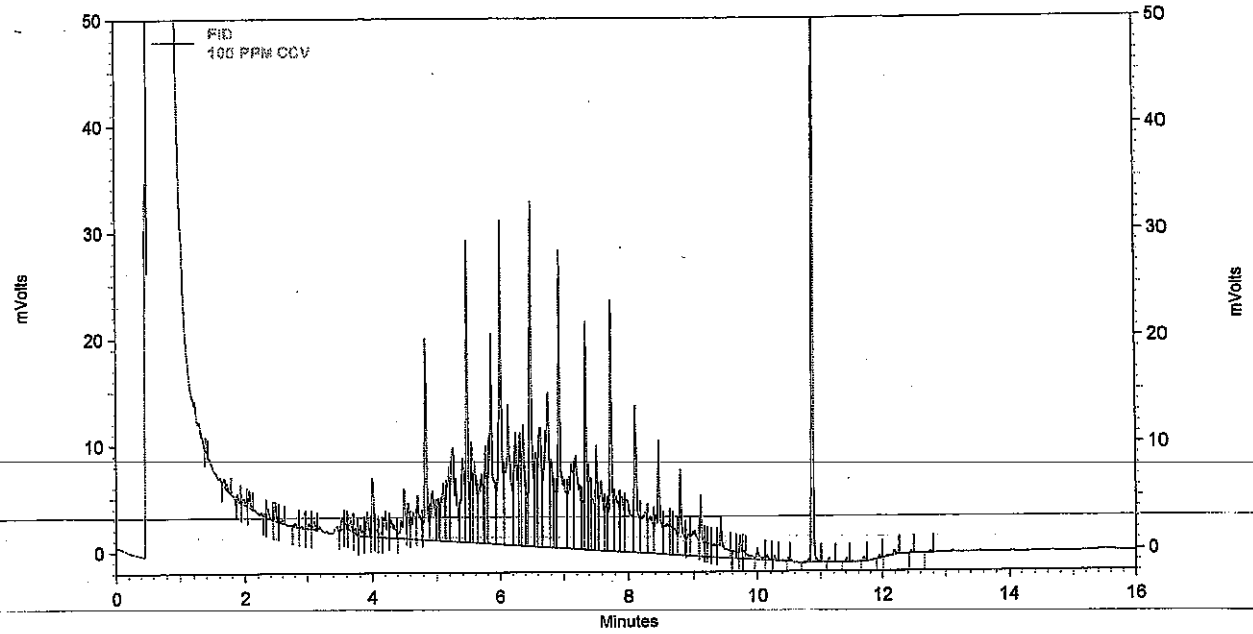
Name	Retention Time	Area	ug/ml
DNOP	10.869	99756	8.861
DRO		1635039	99.141
MRO		6757	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-07-14 1-46-55 PM.dat
Aquired: 9/7/2014 1:52:02 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.864	95975	8.528
DRO		1636668	99.238
MRO		5288	0.000

Analyst BN

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Sequence Print

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Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
6	Unknown	0	1	1409277-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409277-004A <D>.dat	1
7	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
8	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
9	Unknown	0	1	1409278-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-002A <D>.dat	1
10	Unknown	0	1	1409278-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-003A <D>.dat	1
11	Unknown	0	1	1409278-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409278-004A <D>.dat	1
12	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
13	Unknown	0	1	1409275-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409275-001A <D>.dat	1
14	Unknown	0	1	1409219-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-001A <D>.dat	1
15	Unknown	0	1	1409219-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-002A <D>.dat	1
16	Unknown	0	1	1409219-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-003A <D>.dat	1
17	Unknown	0	1	1409219-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-004A <D>.dat	1
18	Unknown	0	1	1409219-007A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-007A <D>.dat	1

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19	Unknown	0	1	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
20	Unknown	0	1	1409219-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-005A <D>.dat	1
21	Unknown	0	1	1409219-006A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-006A <D>.dat	1
22	Unknown	0	1	1409219-009A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409219-009A <D>.dat	1
23	Unknown	0	1	1409233-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-003A <D>.dat	1
24	Unknown	0	1	1409233-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409233-005A <D>.dat	1
25	Unknown	0	1	1409172-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409172-001A <D>.dat	1
26	Unknown	0	2	Conditioner	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
27	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
28	Unknown	0	2	MB-15140	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15140 <D>.dat	1
29	Unknown	0	2	LCS-15140	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15140 <D>.dat	1
30	Unknown	0	2	1409223-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409223-002C <D>.dat	1
31	Unknown	0	2	1409223-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409223-003C <D>.dat	1
32	Unknown	0	2	1409231-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C <D>.dat	1
33	Unknown	0	2	1409231-001CMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C MS <D>.dat	1
34	Unknown	0	2	1409231-001CMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-001C MSD <D>.dat	1
35	Unknown	0	2	1409231-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-002C <D>.dat	1
36	Unknown	0	2	1409231-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-003C <D>.dat	1
37	Unknown	0	2	1409231-004C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-004C <D>.dat	1

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38	Unknown	0	2	1409231-005C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-005C <D>.dat	1
39	Unknown	0	2	1409231-006C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409231-006C <D>.dat	1
40	Unknown	0	2	1409316-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409316-001C <D>.dat	1
41	Unknown	0	2	1409316-003C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409316-003C <D>.dat	1
42	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
43	Unknown	0	2	MB-15117	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-151417 <D>.dat	1
44	Unknown	0	2	LCS-15117	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-151417 <D>.dat	1
45	Unknown	0	2	1409152-001C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C <D>.dat	1
46	Unknown	0	2	1409152-001CMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C MS <D>.dat	1
47	Unknown	0	2	1409152-001CMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-001C MSD <D>.dat	1
48	Unknown	0	2	1409152-002C	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409152-002C <D>.dat	1
49	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
50	Unknown	0	2	MB-15188	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15188 <D>.dat	1
51	Unknown	0	2	LCS-15188	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15188 <D>.dat	1
52	Unknown	0	2	1409340-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-001A <D>.dat	1
53	Unknown	0	2	1409340-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-002A <D>.dat	1
54	Unknown	0	2	1409340-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-003A <D>.dat	1
55	Unknown	0	2	1409340-004A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-004A <D>.dat	1
56	Unknown	0	2	1409340-005A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409340-005A <D>.dat	1

2C BN 9.8.14

9/9/14

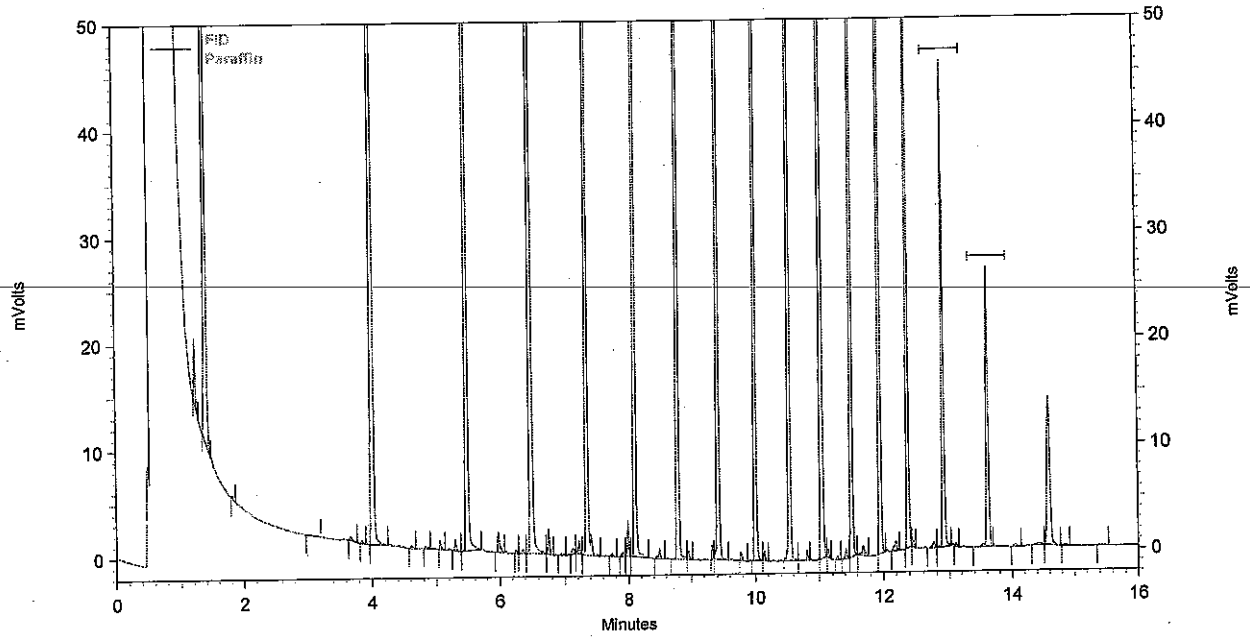
Sequence Print

BN 9.9.14

57	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
58	Unknown	0	2	MB-15170	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-15170 <D>.dat	1
59	Unknown	0	2	LCS-15170	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-15170 <D>.dat	1
60	Unknown	0	2	1409273-001A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A <D>.dat	1
61	Unknown	0	2	1409273-001AMS	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A MS <D>.dat	1
62	Unknown	0	2	1409273-001AMSD	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-001A MSD <D>.dat	1
63	Unknown	0	2	1409273-002A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-002A <D>.dat	1
64	Unknown	0	2	1409273-003A	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1409273-003A <D>.dat	1
65	Unknown	0	1	100 PPM CCV	082714DRO MRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\Paraffin 09-08-14 8-41-07 AM.dat
Aquired: 9/8/2014 8:46:10 AM



FID Results

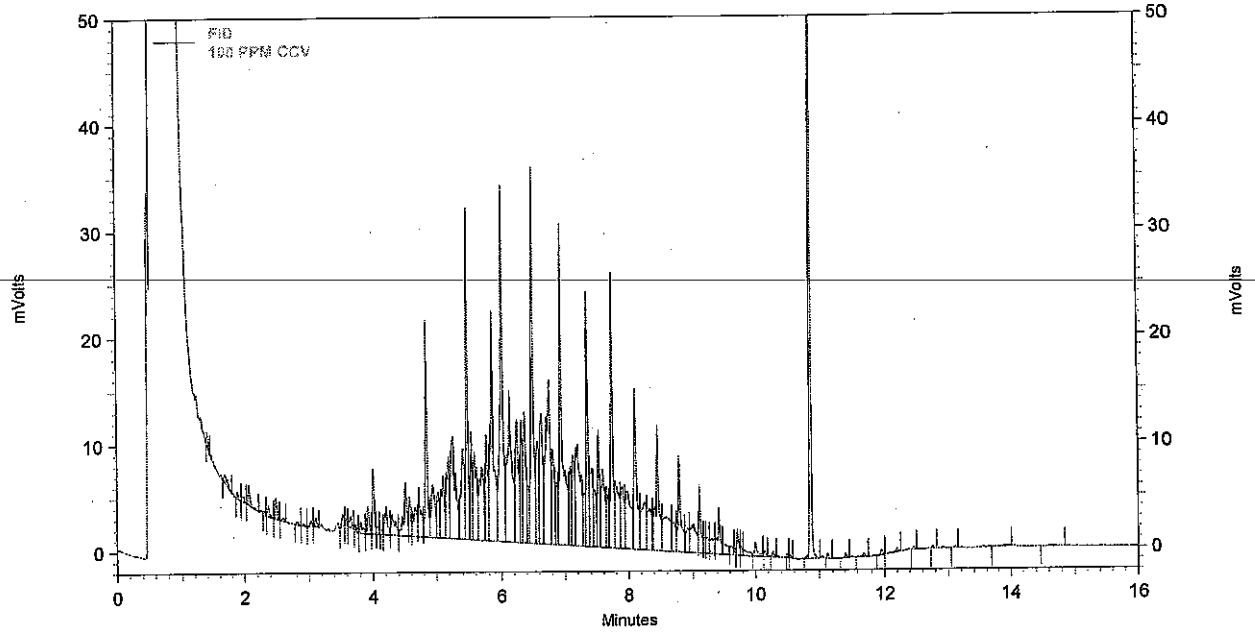
Name	Retention Time	Area	ug/ml
C8	1.392	436419	0.000
C10	4.000	549283	0.000
C12	5.467	531024	0.000
C14	6.485	498634	0.000
C16	7.339	466572	0.000
C18	8.096	433081	0.000
C20	8.784	413625	0.000
C22	9.413	389536	0.000
C24	9.995	369526	0.000
C26	10.533	369784	0.000
C28	11.035	347870	0.000
C30	11.504	291929	0.000
C32	11.947	203409	0.000
C34	12.373	123148	0.000
C36	12.907	83640	0.000
C38	13.616	61038	0.000

Analyst BN

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\100 PPM CCV 09-08-14 9-02-17 AM.dat
Aquired: 9/8/2014 9:07:29 AM



FID Results

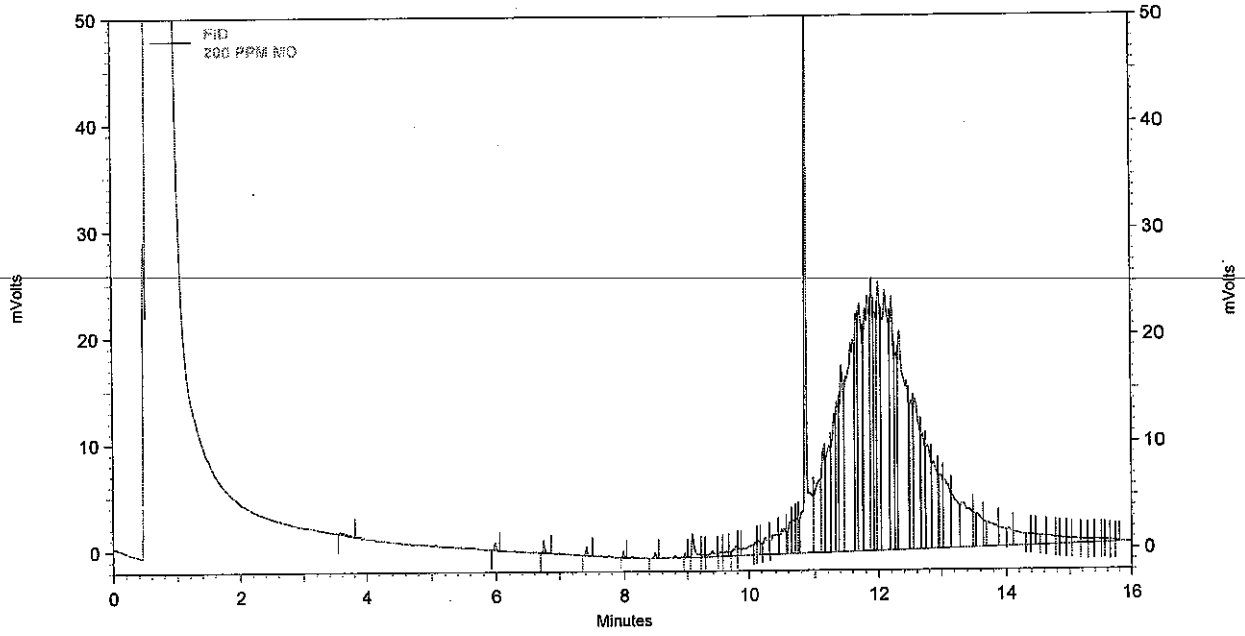
Name	Retention Time	Area	ug/ml
DNOP	10.869	103893	9.225
DRO		1767218	106.958
MRO		6562	0.000

Analyst BW

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\200 PPM MO 09-08-14 9-23-36 AM.dat
Aquired: 9/8/2014 9:28:51 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	167874	14.835
DRO		69351	6.203
MRO		1771589	223.030

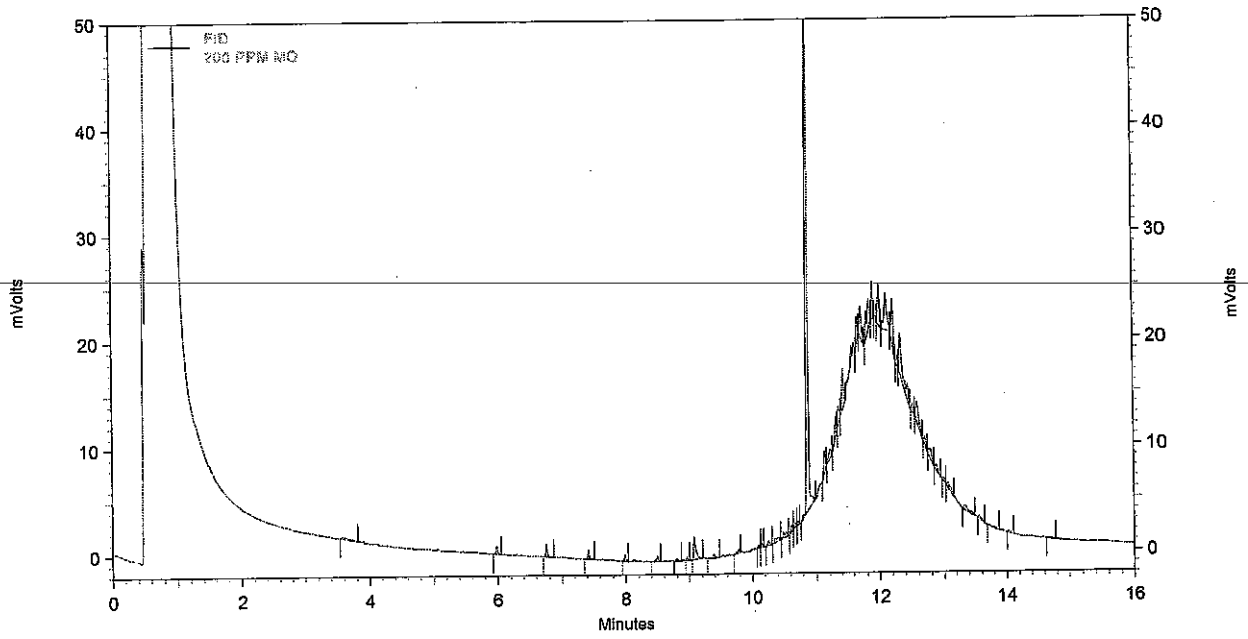
Analyst BW

Reviewed By

14.835
-10.063
4.772
+223.030
227.802
227.802/200 x100
=113.9%

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1570**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\200 PPM MO 09-08-14 9-23-36 AM.dat
Aquired: 9/8/2014 9:28:51 AM



FID Results

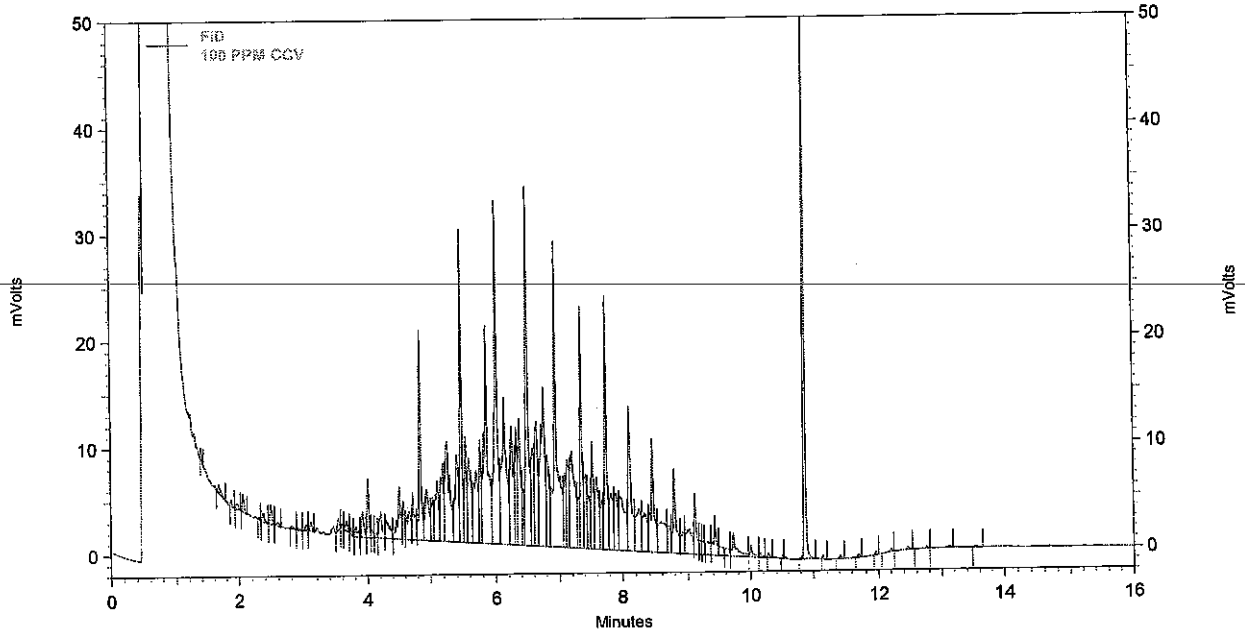
Name	Retention Time	Area	ug/ml
DNOP	10.869	113421	10.063
DRO		20769	3.309
MRO		105969	1.938

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 09-08-14 12-21-00 PM.dat
Aquired: 9/8/2014 12:26:34 PM



FID Results

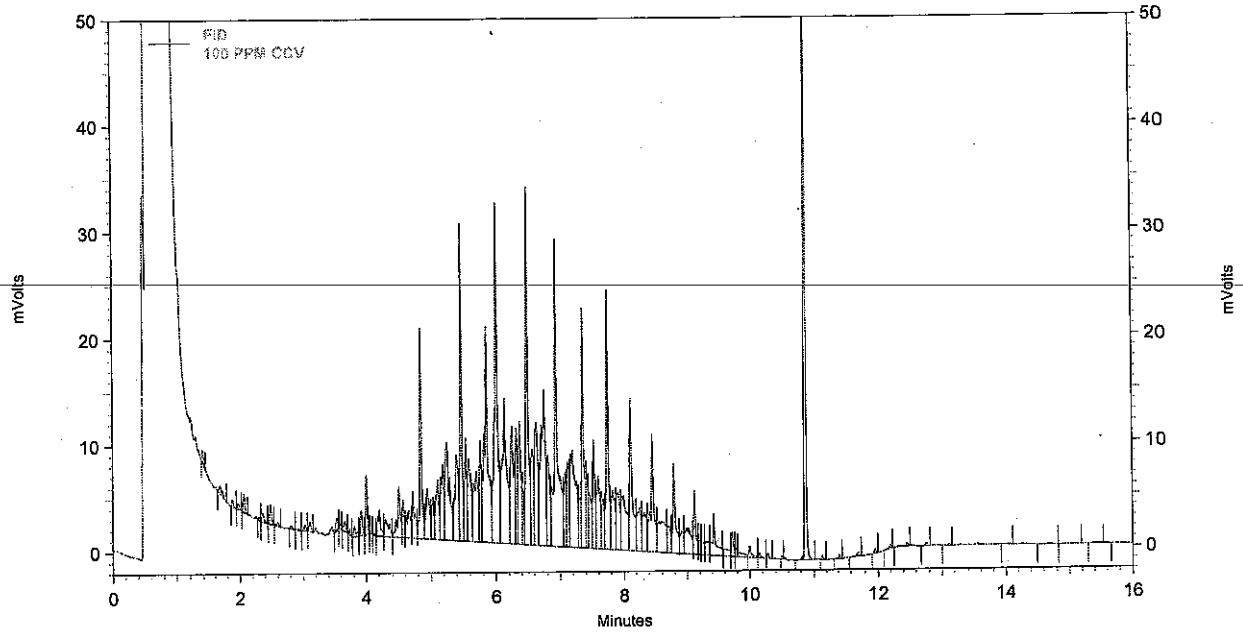
Name	Retention Time	Area	ug/ml
DNOP	10.869	97164	8.633
DRO		1690919	102.446
MRO		5396	0.000

Analyst BW

Reviewed By JC

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1562**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\090814\100 PPM CCV 09-08-14 6-44-58 PM.dat
Aquired: 9/8/2014 6:50:49 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.869	101800	9.041
DRO		1660228	100.631
MRO		5986	0.000

Analyst BN

Reviewed By

8015D DRO
Calibration Summary

Instrument: DANTE

Date: 08/27/14 + 08/28/14

Method: 8015 D

Calibration Name: 082814DRO MRO.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

DRO 8-pt. curve ran 08/27/14

MRO 3-pt. curve ran 08/28/14

Analyst: Janice Easley + Ben C.

QA: John Ablondi

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

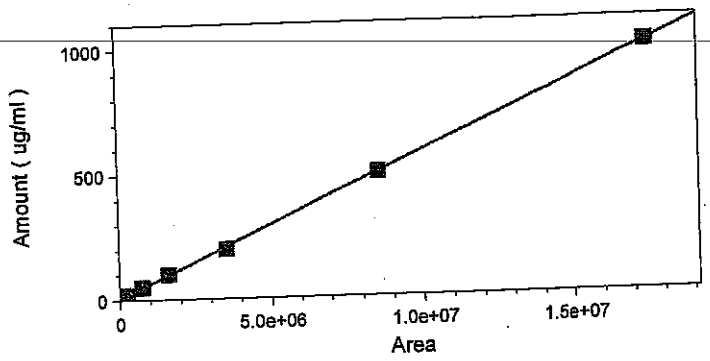
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.81114e-005 RF StDev: 1.13089e-005 RF %RSD: 16.6036
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.33282e-013x^2 + 5.95864e-005x + 2.07170
Goodness of fit (r^2): 0.999851

JR 8/28/14

Group: DRO -- ESTD -- FID-AL1



JV 8.28.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49506	116786	262275	750680	1598005
RF	8.079828707 6314e-005	8.56267018306 989e-005	7.625583833762 27e-005	6.660627697554 22e-005	6.2578026977 3874e-005
Last Area Residual	-1.02126	0.971261	2.30944	3.27309	3.04928
Rep StDev					
Rep %RSD					
Rep 1 Area	49506	116786	262275	750680	1598005
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

	Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:02:34 AM
User: System
Instrument: Dante (Offline)

Amount	200	300	500	1000
Area	3514780		8527481	17394529
RF	5.690256573 66891e-005		5.863396236239 05e-005	5.748934047021 34e-005
Last Area				
Residual	-9.85828	N/A	-0.501613	1.77808
Rep StDev				
Rep %RSD				
Rep 1 Area	3514780		8527481	17394529
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

Calibration Report

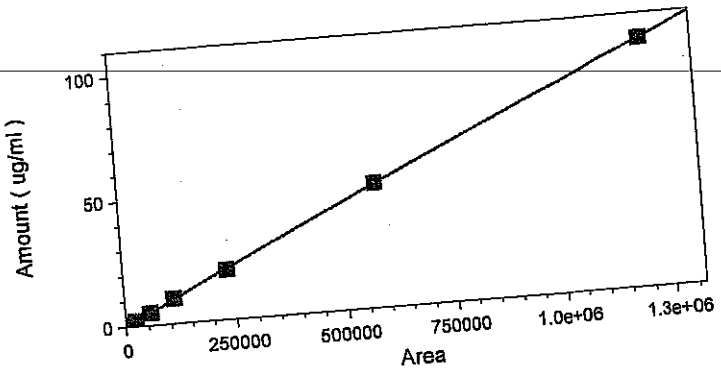
Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 8.78371e-005 RF StDev: 6.58129e-006 RF %RSD: 7.49260
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.39616e-012x^2 + 8.88806e-005x + 0.0382291
Goodness of fit (r^2): 0.999943

JE 8128114

V 8.28.14

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5280	10206	22113	55344	108620
RF	7.575757575 75758e-005	9.79815794630 609e-005	9.044453488897 93e-005	9.034403006649 32e-005	9.2064076597 3117e-005
Last Area Residual	-0.107396	0.0551132	-0.00149656	0.0562272	0.359425
Rep StDev					
Rep %RSD					
Rep 1 Area	5280	10206	22113	55344	108620
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-27-14 4-11-16 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-27-14 4-28-51 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-27-14 4-50-10 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-27-14 5-11-32 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-27-14 5-32-57 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/28/2014 8:59:36 AM	8/28/2014 8:59:47 AM	8/28/2014 9:00:00 AM	8/28/2014 9:00:09 AM	8/28/2014 9:00:22 AM

	Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
Print Time: 8/28/2014 9:01:22 AM
User: System
Instrument: Dante (Offline)

Amount	20	30	50	100
Area	233394		576145	1195754
RF	8.569200579 27796e-005		8.678370896215 36e-005	8.362924146605 41e-005
Last Area				
Residual	-0.542961	N/A	0.212922	-0.0318333
Rep StDev				
Rep %RSD				
Rep 1 Area	233394		576145	1195754
Rep 1 User	System		System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-27-14 5-54-22 PM.dat		H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-27-14 6-15-38 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-27-14 6-37-04 PM.dat
Rep 1 Sample ID	200 PPM		500 PPM	1,000 PPM
Rep 1 Calib. Time	8/28/2014 9:00:33 AM		8/28/2014 9:00:44 AM	8/28/2014 9:00:54 AM

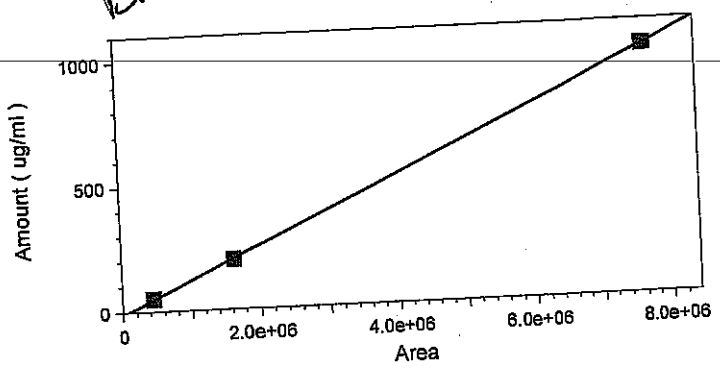
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000122404 RF StDev: 8.98680e-006 RF %RSD: 7.34194
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000132739x - 12.1282
Goodness of fit (r^2): 0.999941

BW 9.28.14

TX 8.28.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	441412	1630009	7619675
RF	0.000113272	0.00012269870	0.000131239193
	860728752	9025533	272679
Last Area Residual	3.53566	-4.23728	0.701621
Rep StDev			
Rep %RSD			
Rep 1 Area	441412	1630009	7619675
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\50ppm MO 08-28-14 9-24-07 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\082814 MRO CRV\200ppm MO 08-28-14 9-44-33 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO 08-28-14 10-06-17 AM.dat
Rep 1 Sample ID	50ppm MO	200ppm MO	1,000ppm MO

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
Print Time: 8/28/2014 12:56:02 PM
User: System
Instrument: Dante (Offline)

Rep 1 Calib. Time	8/28/2014 10:35:56 AM	8/28/2014 10:36:11 AM	8/28/2014 10:36:27 AM

iequence Print

JL 8/28/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

JL 8-28-14

equence Print

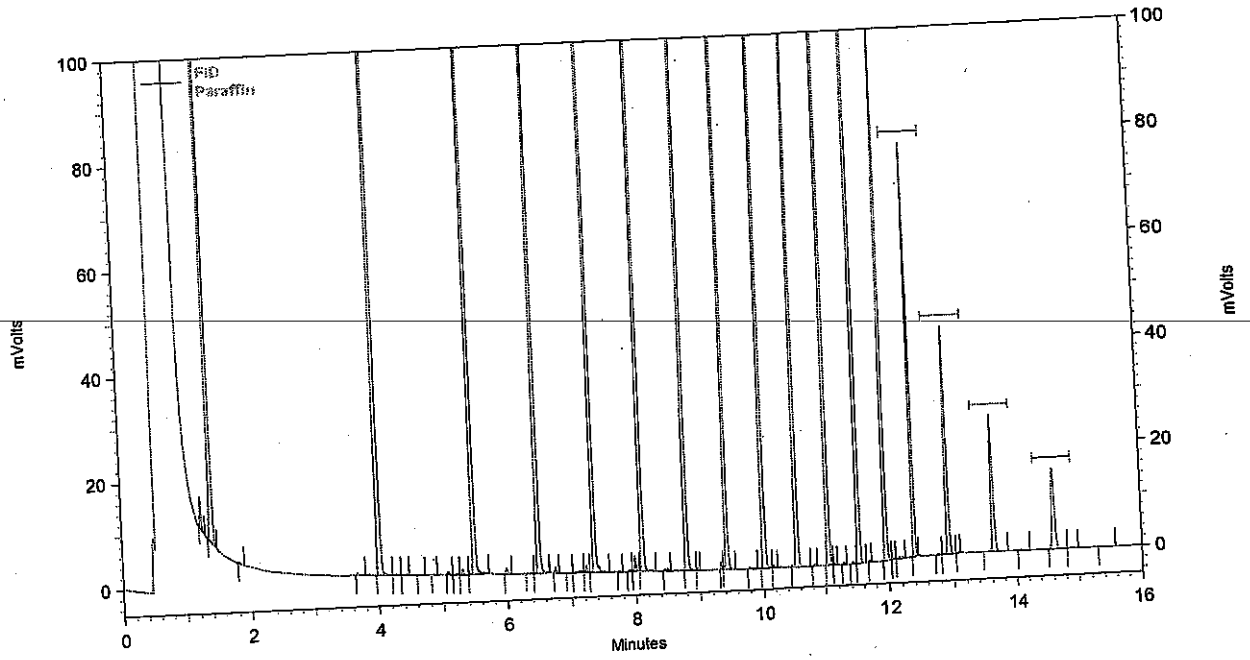
BN 8.28.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	50ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50ppm MO <D>.dat	1
4	Unknown	0	1	200ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO <D>.dat	1
5	Unknown	0	1	1,000ppm MO	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000ppm MO <D>.dat	1
6	Unknown	0	1	200ppm MO ICV	082714DRO.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200ppm MO ICV <D>.dat	1

8.28.14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\082714 CRV\Paraffin 08-27-14 9-49-29 AM.dat
Aquired: 8/27/2014 9:54:35 AM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.397	416007	0.000
C10	4.011	509856	0.000
C12	5.477	493256	0.000
C14	6.491	472686	0.000
C16	7.344	455644	0.000
C18	8.101	432215	0.000
C20	8.795	418784	0.000
C22	9.424	398004	0.000
C24	10.005	379860	0.000
C26	10.544	381599	0.000
C28	11.045	361363	0.000
C30	11.515	302758	0.000
C32	11.957	207849	0.000
C34	12.389	122586	0.000
C36	12.923	79189	0.000
C38	13.632	59177	0.000
C40	14.608	49123	0.000

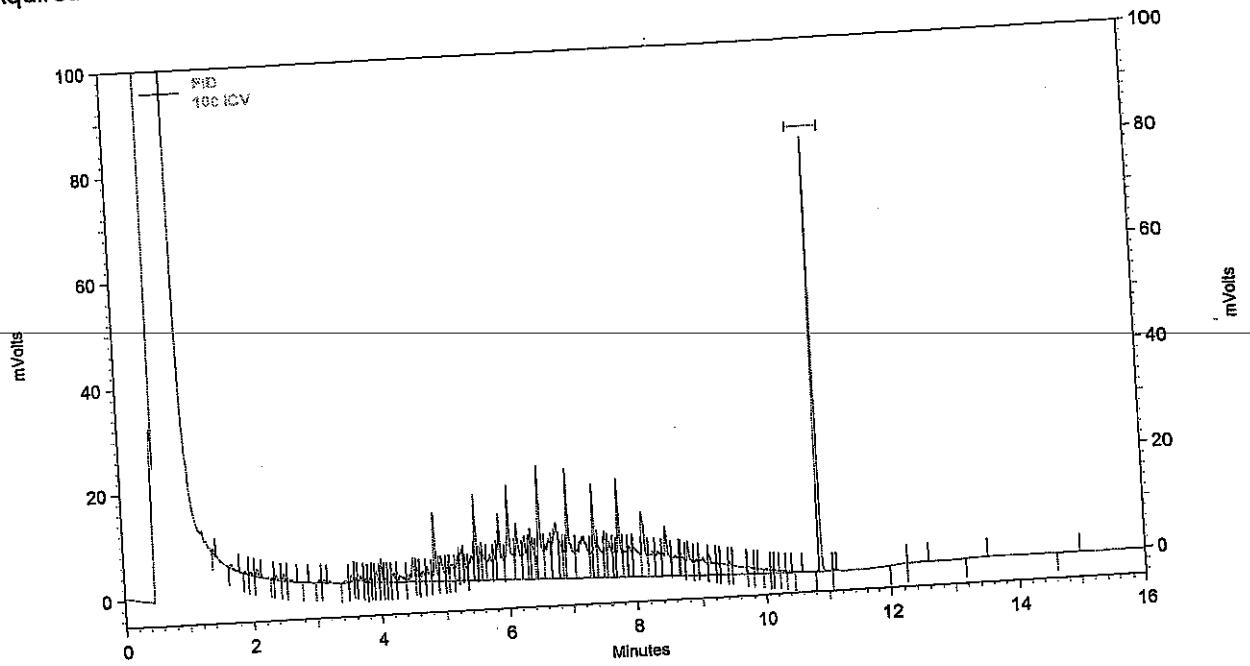
Analyst _____

Reviewed By _____

updated ret. times

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1557**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV 08-27-14 6-58-21 PM.dat
Aquired: 8/27/2014 7:03:37 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	116788	10.358
DRO		1468072	89.262

Analyst _____

Reviewed By _____

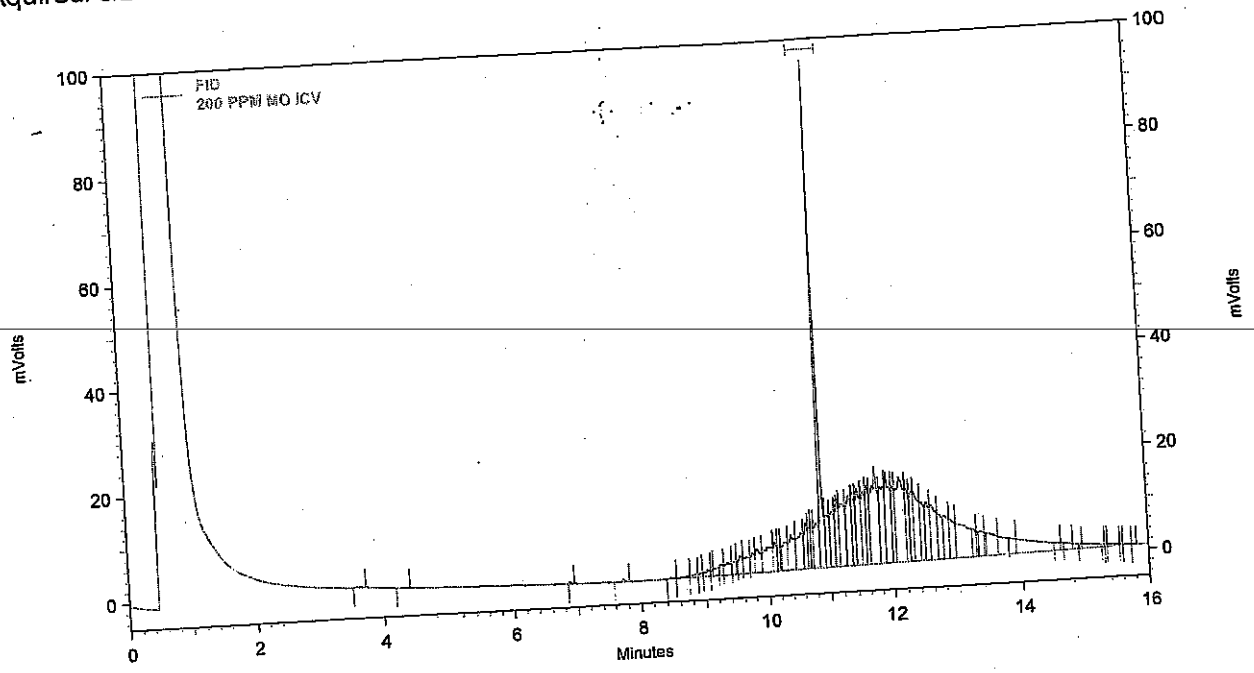
± 20%

Instrument: **Dante (Offline)**
Sample ID: **200 PPM MO ICV**

Vial #: **7**
Data Description: **SV109-1569**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	163365	14.441
DRO		339420	22.281
MRO		1566946	195.866

Analyst BV

Reviewed By JO

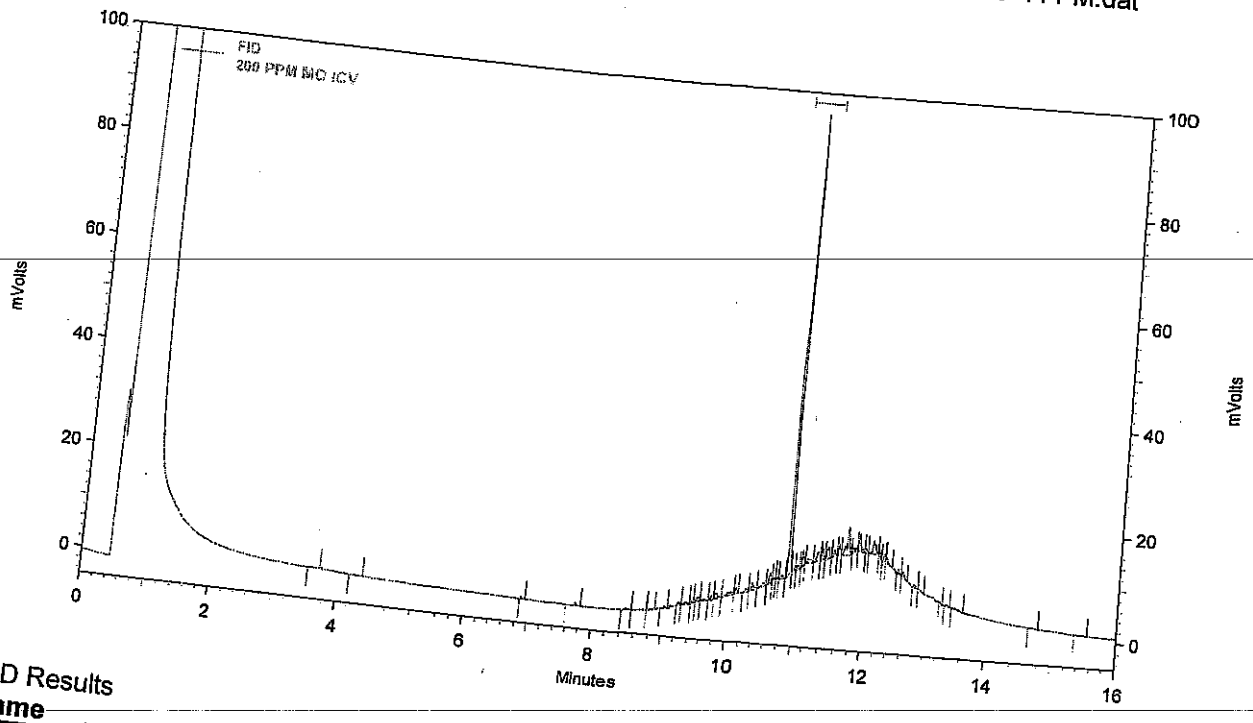
14.441
- 10.528
3.913
+195.866
199.779
200 X100
= 99.889%

Instrument: **Dante (Offline)**
Sample ID: **200 PPM MO ICV**

Vial #: **7**
Data Description: **SV109-1569**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\082714DRO MRO.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-28-14 12-25-44 PM.dat
Aquired: 8/28/2014 12:27:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	118723	10.528
DRO		32486	4.007
MRO		82554	0.000

Analyst _____

Reviewed By _____

WBa 12/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409275**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409275

Lab ID: 1409275-001
Client Sample ID: FFOR-CF-0072

Collection Date: 9/5/2014 8:10:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	0.068	0.37	J	mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Toluene	4.4	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Ethylbenzene	20	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2,4-Trimethylbenzene	100	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
1,3,5-Trimethylbenzene	25	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
1,2-Dichloroethane (EDC)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2-Dibromoethane (EDB)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Naphthalene	24	7.3		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
Acetone	0.76	5.5	J	mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Bromobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Bromodichloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Bromoform	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Bromomethane	ND	1.1		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
2-Butanone	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Carbon disulfide	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Carbon tetrachloride	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Chlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Chloroethane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Chloroform	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Chloromethane	ND	1.1		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
2-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
4-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
cis-1,2-DCE	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
cis-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2-Dibromo-3-chloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Dibromochloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Dibromomethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,3-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,4-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Dichlorodifluoromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1-Dichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1-Dichloroethene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2-Dichloropropane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,3-Dichloropropane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
2,2-Dichloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1-Dichloropropene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Hexachlorobutadiene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

2-Hexanone	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Isopropylbenzene	8.3	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
4-Isopropyltoluene	15	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
4-Methyl-2-pentanone	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Methylene chloride	0.28	1.1	J	mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
n-Butylbenzene	43	11		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
n-Propylbenzene	24	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
sec-Butylbenzene	19	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
Styrene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
tert-Butylbenzene	ND	3.7		mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
1,1,1,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1,2,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Tetrachloroethene (PCE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
trans-1,2-DCE	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
trans-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2,3-Trichlorobenzene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2,4-Trichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1,1-Trichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,1,2-Trichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Trichloroethene (TCE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Trichlorofluoromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
1,2,3-Trichloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Vinyl chloride	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Xylenes, Total	41	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Bromochloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Vinyl acetate	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:57:13 PM
Surr: Dibromofluoromethane	90.1	70-130		%REC	10	R21086	9/8/2014 7:57:13 PM
Surr: 1,2-Dichloroethane-d4	88.8	70-130		%REC	10	R21086	9/8/2014 7:57:13 PM
Surr: Toluene-d8	100	70-130		%REC	10	R21086	9/8/2014 7:57:13 PM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	100	R21173	9/12/2014 12:19:55 PM

Comment: DUE 09/10/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **RAA**

Gasoline Range Organics (GRO)	5000	370	mg/Kg-dry	100	R21173	9/12/2014 12:19:55 PM
Surr: BFB	117	61.2-137	%REC	100	R21173	9/12/2014 12:19:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-002
Client Sample ID: FFOR-CF-0073
Collection Date: 9/5/2014 9:05:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg-dry	1	R21086	9/8/2014 12:55:52 PM
Surr: BFB	107	61.2-137		%REC	1	R21086	9/8/2014 12:55:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-003
Client Sample ID: FFOR-CF-0074
Collection Date: 9/5/2014 11:16:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Toluene	0.60	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Ethylbenzene	5.0	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Methyl tert-butyl ether (MTBE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2,4-Trimethylbenzene	17	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,3,5-Trimethylbenzene	8.8	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2-Dichloroethane (EDC)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2-Dibromoethane (EDB)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Naphthalene	2.4	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Acetone	4.6	5.5	J	mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Bromobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Bromodichloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Bromoform	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Bromomethane	ND	1.1		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
2-Butanone	2.2	3.7	J	mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Carbon disulfide	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Carbon tetrachloride	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Chlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Chloroethane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Chloroform	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Chloromethane	ND	1.1		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
2-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
4-Chlorotoluene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
cis-1,2-DCE	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
cis-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2-Dibromo-3-chloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Dibromochloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Dibromomethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,3-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,4-Dichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Dichlorodifluoromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1-Dichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1-Dichloroethene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2-Dichloropropane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,3-Dichloropropane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
2,2-Dichloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1-Dichloropropene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Hexachlorobutadiene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

2-Hexanone	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Isopropylbenzene	2.3	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
4-Isopropyltoluene	1.6	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
4-Methyl-2-pentanone	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Methylene chloride	0.40	1.1	J	mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
n-Butylbenzene	1.5	1.1		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
n-Propylbenzene	3.4	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
sec-Butylbenzene	1.3	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Styrene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
tert-Butylbenzene	0.088	0.37	J	mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1,1,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1,2,2-Tetrachloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Tetrachloroethene (PCE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
trans-1,2-DCE	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
trans-1,3-Dichloropropene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2,3-Trichlorobenzene	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2,4-Trichlorobenzene	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1,1-Trichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,1,2-Trichloroethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Trichloroethene (TCE)	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Trichlorofluoromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
1,2,3-Trichloropropane	ND	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Vinyl chloride	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Xylenes, Total	46	0.73		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Bromochloromethane	ND	0.37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Vinyl acetate	ND	3.7		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Surr: Dibromofluoromethane	87.2	70-130		%REC	10	R21086	9/8/2014 7:01:20 PM
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%REC	10	R21086	9/8/2014 7:01:20 PM
Surr: Toluene-d8	98.6	70-130		%REC	10	R21086	9/8/2014 7:01:20 PM
Surr: 4-Bromofluorobenzene	150	70-130	S	%REC	10	R21086	9/8/2014 7:01:20 PM

Comment: DUE 09/10/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **RAA**

Gasoline Range Organics (GRO)	2200	37		mg/Kg-dry	10	R21086	9/8/2014 7:01:20 PM
Surr: BFB	136	61.2-137		%REC	10	R21086	9/8/2014 7:01:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-004 **Collection Date:** 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg-dry	1	R21086	9/8/2014 2:48:37 PM
Surr: BFB	111	61.2-137		%REC	1	R21086	9/8/2014 2:48:37 PM

Lab ID: 1409275-005 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0076 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg-dry	1	R21086	9/8/2014 3:16:50 PM
Surr: BFB	112	61.2-137		%REC	1	R21086	9/8/2014 3:16:50 PM

Lab ID: 1409275-006 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0077 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	0.56	4.2	J	mg/Kg-dry	1	R21086	9/8/2014 3:45:03 PM
Surr: BFB	109	61.2-137		%REC	1	R21086	9/8/2014 3:45:03 PM

Lab ID: 1409275-009 **Collection Date:** 9/5/2014 1:46:00 PM
Client Sample ID: FFOR-CF-0111 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg-dry	1	R21086	9/8/2014 4:13:12 PM
Surr: BFB	107	61.2-137		%REC	1	R21086	9/8/2014 4:13:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-010 **Collection Date:** 9/5/2014 1:55:00 PM
Client Sample ID: FFOR-CF-0112 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	2.0	4.0	J	mg/Kg-dry	1	R21086	9/8/2014 4:41:17 PM
Surr: BFB	105	61.2-137		%REC	1	R21086	9/8/2014 4:41:17 PM

Lab ID: 1409275-011 **Collection Date:** 9/5/2014 2:40:00 PM
Client Sample ID: FFOR-CF-0113 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg-dry	1	R21086	9/8/2014 5:09:22 PM
Surr: BFB	115	61.2-137		%REC	1	R21086	9/8/2014 5:09:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Greater than
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-012
Collection Date:
Client Sample ID: MEOH BLANK
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment:							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Toluene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Naphthalene	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Acetone	ND	0.75		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Bromobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Bromoform	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Bromomethane	0.013	0.15	J	mg/Kg	1	R21086	9/8/2014 5:37:24 PM
2-Butanone	ND	0.50		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Chloroethane	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Chloroform	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Chloromethane	ND	0.15		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Dibromomethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment:

EPA METHOD 8260B: VOLATILES — Analyst: **RAA**

2-Hexanone	ND	0.50		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Methylene chloride	0.049	0.15	J	mg/Kg	1	R21086	9/8/2014 5:37:24 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Styrene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Surr: Dibromofluoromethane	80.5	70-130		%REC	1	R21086	9/8/2014 5:37:24 PM
Surr: 1,2-Dichloroethane-d4	79.9	70-130		%REC	1	R21086	9/8/2014 5:37:24 PM
Surr: Toluene-d8	97.5	70-130		%REC	1	R21086	9/8/2014 5:37:24 PM
Surr: 4-Bromofluorobenzene	84.4	70-130		%REC	1	R21086	9/8/2014 5:37:24 PM

Comment:

EPA METHOD 8015D MOD: GASOLINE RANGE — Analyst: **RAA**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R21086	9/8/2014 5:37:24 PM
Surr: BFB	108	61.2-137		%REC	1	R21086	9/8/2014 5:37:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

[redacted] 9.9.14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409275**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-002
Client Sample ID: FFOR-CF-0073
Collection Date: 9/5/2014 9:05:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Toluene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Ethylbenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Xylenes, Total	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Methyl tert-butyl ether (MTBE)	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2,4-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,3,5-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2-Dichloroethane (EDC)	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2-Dibromoethane (EDB)	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Naphthalene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Acetone	ND	0.00715		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Bromobenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Bromodichloromethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Bromoform	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Bromomethane	0.000909	0.00358	J	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
2-Butanone	ND	0.00715		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Carbon tetrachloride	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Chlorobenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Chloroethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Chloroform	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Chloromethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
2-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Carbon disulfide	ND	0.00715		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
4-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
cis-1,2-DCE	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
cis-1,3-Dichloropropene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2-Dibromo-3-chloropropane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Dibromochloromethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Dibromomethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,3-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,4-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Dichlorodifluoromethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1-Dichloroethane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1-Dichloroethene	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,3-Dichloropropane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
2,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Hexachlorobutadiene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Isopropylbenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
4-Isopropyltoluene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Methylene chloride	ND	0.00358	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
n-Butylbenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
2-Hexanone	ND	0.00715	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
n-Propylbenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
sec-Butylbenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Styrene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
4-Methyl-2-pentanone	ND	0.00715	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
tert-Butylbenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1,1,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Tetrachloroethene (PCE)	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
trans-1,2-DCE	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
trans-1,3-Dichloropropene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2,3-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2,4-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1,1-Trichloroethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,1,2-Trichloroethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Trichloroethene (TCE)	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Trichlorofluoromethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
1,2,3-Trichloropropane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Vinyl chloride	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Vinyl acetate	ND	0.00715	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Bromochloromethane	ND	0.00143	mg/Kg-dry	1	15165	9/8/2014 12:40:16 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	15165	9/8/2014 12:40:16 PM
Surr: 4-Bromofluorobenzene	94.9	65.3-135	%REC	1	15165	9/8/2014 12:40:16 PM
Surr: Dibromofluoromethane	99.0	70-130	%REC	1	15165	9/8/2014 12:40:16 PM
Surr: Toluene-d8	97.8	70-130	%REC	1	15165	9/8/2014 12:40:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-004
Collection Date: 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Toluene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Ethylbenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Xylenes, Total	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Methyl tert-butyl ether (MTBE)	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2,4-Trimethylbenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,3,5-Trimethylbenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2-Dichloroethane (EDC)	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2-Dibromoethane (EDB)	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Naphthalene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Acetone	ND	0.00811		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Bromobenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Bromodichloromethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Bromoform	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Bromomethane	0.000926	0.00406	J	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
2-Butanone	ND	0.00811		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Carbon tetrachloride	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Chlorobenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Chloroethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Chloroform	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Chloromethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
2-Chlorotoluene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Carbon disulfide	ND	0.00811		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
4-Chlorotoluene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
cis-1,2-DCE	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
cis-1,3-Dichloropropene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2-Dibromo-3-chloropropane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Dibromochloromethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Dibromomethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2-Dichlorobenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,3-Dichlorobenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,4-Dichlorobenzene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Dichlorodifluoromethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1-Dichloroethane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1-Dichloroethene	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2-Dichloropropane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,3-Dichloropropane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
2,2-Dichloropropane	ND	0.00162		mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Hexachlorobutadiene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Isopropylbenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
4-Isopropyltoluene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Methylene chloride	ND	0.00406	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
n-Butylbenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
2-Hexanone	ND	0.00811	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
n-Propylbenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
sec-Butylbenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Styrene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
4-Methyl-2-pentanone	ND	0.00811	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
tert-Butylbenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1,1,2-Tetrachloroethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1,2,2-Tetrachloroethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Tetrachloroethene (PCE)	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
trans-1,2-DCE	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
trans-1,3-Dichloropropene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2,3-Trichlorobenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2,4-Trichlorobenzene	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1,1-Trichloroethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,1,2-Trichloroethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Trichloroethene (TCE)	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Trichlorofluoromethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
1,2,3-Trichloropropane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Vinyl chloride	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Vinyl acetate	ND	0.00811	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Bromochloromethane	ND	0.00162	mg/Kg-dry	1	15165	9/8/2014 2:06:24 PM
Surr: 1,2-Dichloroethane-d4	117	70-130	%REC	1	15165	9/8/2014 2:06:24 PM
Surr: 4-Bromofluorobenzene	97.6	65.3-135	%REC	1	15165	9/8/2014 2:06:24 PM
Surr: Dibromofluoromethane	106	70-130	%REC	1	15165	9/8/2014 2:06:24 PM
Surr: Toluene-d8	95.9	70-130	%REC	1	15165	9/8/2014 2:06:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-005
Collection Date: 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0076
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Toluene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Ethylbenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Xylenes, Total	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Methyl tert-butyl ether (MTBE)	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2,4-Trimethylbenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,3,5-Trimethylbenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2-Dichloroethane (EDC)	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2-Dibromoethane (EDB)	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Naphthalene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Acetone	ND	0.00699		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Bromobenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Bromodichloromethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Bromoform	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Bromomethane	0.000804	0.00349	J	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
2-Butanone	ND	0.00699		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Carbon tetrachloride	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Chlorobenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Chloroethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Chloroform	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Chloromethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
2-Chlorotoluene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Carbon disulfide	ND	0.00699		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
4-Chlorotoluene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
cis-1,2-DCE	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
cis-1,3-Dichloropropene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2-Dibromo-3-chloropropane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Dibromochloromethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Dibromomethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,3-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,4-Dichlorobenzene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Dichlorodifluoromethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1-Dichloroethane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1-Dichloroethene	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2-Dichloropropane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,3-Dichloropropane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
2,2-Dichloropropane	ND	0.00140		mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Hexachlorobutadiene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Isopropylbenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
4-Isopropyltoluene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Methylene chloride	ND	0.00349	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
n-Butylbenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
2-Hexanone	ND	0.00699	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
n-Propylbenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
sec-Butylbenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Styrene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
4-Methyl-2-pentanone	ND	0.00699	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
tert-Butylbenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1,1,2-Tetrachloroethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1,2,2-Tetrachloroethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Tetrachloroethene (PCE)	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
trans-1,2-DCE	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
trans-1,3-Dichloropropene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2,3-Trichlorobenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2,4-Trichlorobenzene	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1,1-Trichloroethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,1,2-Trichloroethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Trichloroethene (TCE)	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Trichlorofluoromethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
1,2,3-Trichloropropane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Vinyl chloride	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Vinyl acetate	ND	0.00699	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Bromochloromethane	ND	0.00140	mg/Kg-dry	1	15165	9/8/2014 2:35:08 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	15165	9/8/2014 2:35:08 PM
Surr: 4-Bromofluorobenzene	102	65.3-135	%REC	1	15165	9/8/2014 2:35:08 PM
Surr: Dibromofluoromethane	98.6	70-130	%REC	1	15165	9/8/2014 2:35:08 PM
Surr: Toluene-d8	101	70-130	%REC	1	15165	9/8/2014 2:35:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-006 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0077 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Toluene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Ethylbenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Xylenes, Total	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Methyl tert-butyl ether (MTBE)	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2,4-Trimethylbenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,3,5-Trimethylbenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2-Dichloroethane (EDC)	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2-Dibromoethane (EDB)	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Naphthalene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Acetone	ND	0.00793		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Bromobenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Bromodichloromethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Bromoform	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Bromomethane	0.000890	0.00396	J	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
2-Butanone	ND	0.00793		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Carbon tetrachloride	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Chlorobenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Chloroethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Chloroform	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Chloromethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
2-Chlorotoluene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Carbon disulfide	ND	0.00793		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
4-Chlorotoluene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
cis-1,2-DCE	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
cis-1,3-Dichloropropene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2-Dibromo-3-chloropropane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Dibromochloromethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Dibromomethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2-Dichlorobenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,3-Dichlorobenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,4-Dichlorobenzene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Dichlorodifluoromethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1-Dichloroethane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1-Dichloroethene	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2-Dichloropropane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,3-Dichloropropane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
2,2-Dichloropropane	ND	0.00159		mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Hexachlorobutadiene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Isopropylbenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
4-Isopropyltoluene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Methylene chloride	ND	0.00396	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
n-Butylbenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
2-Hexanone	ND	0.00793	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
n-Propylbenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
sec-Butylbenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Styrene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
4-Methyl-2-pentanone	ND	0.00793	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
tert-Butylbenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1,1,2-Tetrachloroethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1,2,2-Tetrachloroethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Tetrachloroethene (PCE)	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
trans-1,2-DCE	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
trans-1,3-Dichloropropene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2,3-Trichlorobenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2,4-Trichlorobenzene	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1,1-Trichloroethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,1,2-Trichloroethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Trichloroethene (TCE)	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Trichlorofluoromethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
1,2,3-Trichloropropane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Vinyl chloride	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Vinyl acetate	ND	0.00793	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Bromochloromethane	ND	0.00159	mg/Kg-dry	1	15165	9/8/2014 3:03:52 PM
Surr: 1,2-Dichloroethane-d4	113	70-130	%REC	1	15165	9/8/2014 3:03:52 PM
Surr: 4-Bromofluorobenzene	110	65.3-135	%REC	1	15165	9/8/2014 3:03:52 PM
Surr: Dibromofluoromethane	105	70-130	%REC	1	15165	9/8/2014 3:03:52 PM
Surr: Toluene-d8	101	70-130	%REC	1	15165	9/8/2014 3:03:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409275

Lab ID: 1409275-009
Client Sample ID: FFOR-CF-0111

Collection Date: 9/5/2014 1:46:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Toluene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Ethylbenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Xylenes, Total	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2,4-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,3,5-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2-Dichloroethane (EDC)	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2-Dibromoethane (EDB)	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Naphthalene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Acetone	ND	0.00675		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Bromobenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Bromodichloromethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Bromoform	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Bromomethane	0.000819	0.00338	J	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
2-Butanone	ND	0.00675		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Carbon tetrachloride	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Chlorobenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Chloroethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Chloroform	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Chloromethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
2-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Carbon disulfide	ND	0.00675		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
4-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
cis-1,2-DCE	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
cis-1,3-Dichloropropene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2-Dibromo-3-chloropropane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Dibromochloromethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Dibromomethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,3-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,4-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Dichlorodifluoromethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1-Dichloroethane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1-Dichloroethene	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,3-Dichloropropane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
2,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Hexachlorobutadiene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Isopropylbenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
4-Isopropyltoluene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Methylene chloride	ND	0.00338	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
n-Butylbenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
2-Hexanone	ND	0.00675	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
n-Propylbenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
sec-Butylbenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Styrene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
4-Methyl-2-pentanone	ND	0.00675	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
tert-Butylbenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1,1,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1,2,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Tetrachloroethene (PCE)	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
trans-1,2-DCE	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
trans-1,3-Dichloropropene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2,3-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2,4-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1,1-Trichloroethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,1,2-Trichloroethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Trichloroethene (TCE)	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Trichlorofluoromethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
1,2,3-Trichloropropane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Vinyl chloride	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Vinyl acetate	ND	0.00675	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Bromochloromethane	ND	0.00135	mg/Kg-dry	1	15165	9/8/2014 3:32:38 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	15165	9/8/2014 3:32:38 PM
Surr: 4-Bromofluorobenzene	106	65.3-135	%REC	1	15165	9/8/2014 3:32:38 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	15165	9/8/2014 3:32:38 PM
Surr: Toluene-d8	98.3	70-130	%REC	1	15165	9/8/2014 3:32:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-010
Client Sample ID: FFOR-CF-0112
Collection Date: 9/5/2014 1:55:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Toluene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Ethylbenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Xylenes, Total	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Methyl tert-butyl ether (MTBE)	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2,4-Trimethylbenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,3,5-Trimethylbenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2-Dichloroethane (EDC)	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2-Dibromoethane (EDB)	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Naphthalene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Acetone	0.00909	0.00754		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Bromobenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Bromodichloromethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Bromoform	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Bromomethane	0.000861	0.00377	J	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
2-Butanone	ND	0.00754		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Carbon tetrachloride	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Chlorobenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Chloroethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Chloroform	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Chloromethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
2-Chlorotoluene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Carbon disulfide	ND	0.00754		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
4-Chlorotoluene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
cis-1,2-DCE	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
cis-1,3-Dichloropropene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2-Dibromo-3-chloropropane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Dibromochloromethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Dibromomethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2-Dichlorobenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,3-Dichlorobenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,4-Dichlorobenzene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Dichlorodifluoromethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1-Dichloroethane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1-Dichloroethene	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2-Dichloropropane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,3-Dichloropropane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
2,2-Dichloropropane	ND	0.00151		mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Hexachlorobutadiene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Isopropylbenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
4-Isopropyltoluene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Methylene chloride	ND	0.00377	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
n-Butylbenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
2-Hexanone	ND	0.00754	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
n-Propylbenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
sec-Butylbenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Styrene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
4-Methyl-2-pentanone	ND	0.00754	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
tert-Butylbenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1,1,2-Tetrachloroethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1,2,2-Tetrachloroethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Tetrachloroethene (PCE)	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
trans-1,2-DCE	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
trans-1,3-Dichloropropene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2,3-Trichlorobenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2,4-Trichlorobenzene	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1,1-Trichloroethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,1,2-Trichloroethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Trichloroethene (TCE)	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Trichlorofluoromethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
1,2,3-Trichloropropane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Vinyl chloride	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Vinyl acetate	ND	0.00754	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Bromochloromethane	ND	0.00151	mg/Kg-dry	1	15165	9/8/2014 4:01:23 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	15165	9/8/2014 4:01:23 PM
Surr: 4-Bromofluorobenzene	92.3	65.3-135	%REC	1	15165	9/8/2014 4:01:23 PM
Surr: Dibromofluoromethane	103	70-130	%REC	1	15165	9/8/2014 4:01:23 PM
Surr: Toluene-d8	101	70-130	%REC	1	15165	9/8/2014 4:01:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-011
Collection Date: 9/5/2014 2:40:00 PM
Client Sample ID: FFOR-CF-0113
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Toluene	0.00112	0.00149	J	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Ethylbenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Xylenes, Total	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Methyl tert-butyl ether (MTBE)	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2,4-Trimethylbenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,3,5-Trimethylbenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2-Dichloroethane (EDC)	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2-Dibromoethane (EDB)	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Naphthalene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Acetone	0.0122	0.00743		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Bromobenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Bromodichloromethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Bromoform	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Bromomethane	0.000919	0.00372	J	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
2-Butanone	ND	0.00743		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Carbon tetrachloride	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Chlorobenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Chloroethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Chloroform	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Chloromethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
2-Chlorotoluene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Carbon disulfide	ND	0.00743		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
4-Chlorotoluene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
cis-1,2-DCE	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
cis-1,3-Dichloropropene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2-Dibromo-3-chloropropane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Dibromochloromethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Dibromomethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2-Dichlorobenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,3-Dichlorobenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,4-Dichlorobenzene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Dichlorodifluoromethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1-Dichloroethane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1-Dichloroethene	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2-Dichloropropane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,3-Dichloropropane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
2,2-Dichloropropane	ND	0.00149		mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Hexachlorobutadiene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Isopropylbenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
4-Isopropyltoluene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Methylene chloride	ND	0.00372	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
n-Butylbenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
2-Hexanone	ND	0.00743	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
n-Propylbenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
sec-Butylbenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Styrene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
4-Methyl-2-pentanone	ND	0.00743	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
tert-Butylbenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1,1,2-Tetrachloroethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1,2,2-Tetrachloroethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Tetrachloroethene (PCE)	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
trans-1,2-DCE	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
trans-1,3-Dichloropropene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2,3-Trichlorobenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2,4-Trichlorobenzene	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1,1-Trichloroethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,1,2-Trichloroethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Trichloroethene (TCE)	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Trichlorofluoromethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
1,2,3-Trichloropropane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Vinyl chloride	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Vinyl acetate	ND	0.00743	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Bromochloromethane	ND	0.00149	mg/Kg-dry	1	15165	9/8/2014 4:30:07 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	15165	9/8/2014 4:30:07 PM
Surr: 4-Bromofluorobenzene	98.5	65.3-135	%REC	1	15165	9/8/2014 4:30:07 PM
Surr: Dibromofluoromethane	99.4	70-130	%REC	1	15165	9/8/2014 4:30:07 PM
Surr: Toluene-d8	104	70-130	%REC	1	15165	9/8/2014 4:30:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

rian Star Workstation - Generic SampleList Mon Sep 08 15:15:01 2014

mpleList: C:\VarianWS\090814v.smp

eated: Mon Sep 08 08:18:09 2014
odified: Mon Sep 08 15:09:25 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0530	
2	b1	none ← Tune 9:10
3	100ng ccv	below @ 9:39
	Notes V-54-0481	
4	100ng lcs	below
	Notes V-11-8074	
5	2.0ug gro ccv	below
	Notes v-18-2074	
6	2.5ug gro lcs	below
	Notes v-18-2067	
7	vcb1	none
8	1409219-001a	below
	Notes r1-100uL MeOH GRO	
9	1409219-002a	below
	Notes r1-100uL MeOH GRO	
10	1409275-002a	below
	Notes x1-100uL MeOH GRO	
11	1409275-002a ms g	below
	Notes V-18-2067 MeOH GRO	
12	1409275-002a msd g	below
	Notes V-18-2067 MeOH GRO	
13	b2	none
14	1409275-004a	below
	Notes x1-100uL MeOH GRO	
15	1409275-005a	below
	Notes x1-100uL MeOH GRO	
16	1409275-006a	below
	Notes x1-100uL MeOH GRO	
17	1409275-009a	below
	Notes x1-100uL MeOH GRO	
18	1409275-010a	below
	Notes x1-100uL MeOH GRO	
19	1409275-011a	below
	Notes x1-100uL MeOH GRO	
20	1409275-012a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
21	1409219-009a	below
	Notes r10-10uL MeOH GRO, 8260 IS3	
22	b3	none
23	1409275-003a	below
	Notes x10-10uL MeOH GRO, 8260 ~~r100 - GRO, IS3 for 8260~~	
24	b4	none ← Tune 7:29
25	1409275-001a	below
	Notes x10-10uL MeOH GRO, 8260 r100 - GRO, 8260 IS3	
26	1409170-001ams	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
27	1409170-001amsd	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
28 @9:21	1409170-001a	below
	Notes r5-20uL SoilTCLP PB15122	
29	b5	none
30	75ng ccv	~~none~~ V-54-0481 @ 10:17
31	vcb2	none
32	1409069-001a	below
	Notes r1-100uL MeOH QCw/PB15122	
33	lcs-15146	below
	Notes V-11-8070 SoilTCLP, 8260	
34	mb-15146	below
	Notes 4681 SoilTCLP, 8260	
35	1409226-001a	below
	Notes x1-100uL PB15146	
36	1409226-001ams	below
	Notes V-11-8070 PB15146	
37	1409226-001amsd	below
	Notes V-11-8070 PB15146	

DF 9/8/2014

Loaded By: 9-8-14

1st Review By: 9.9.14 DF 9/9/2014

QA'd By: 9/9/14

```
39          1408e83-008a      below
               Notes  r20 0.25mL (B)
40          1408f60-001a      below
               Notes  x2 2.5mL (dds)
41       1408f60-001a ms      below
               Notes  x2 V-11-8074 (dds)
42      1408f60-001a msd      below
               Notes  x2 V-11-8074 (dds)
43          1408f60-002a      below
               Notes  x2 2.5mL (dds)
44          1408f60-003a      below
               Notes  x2 2.5mL (dds)
45          1408f72-001a      below
               Notes  x1 5mL SL_W
46          1409038-002a      below
               Notes  x1 5mL
47          1409038-003a      below
               Notes  x1 5mL
48          1409038-004a      below
               Notes  x1 5mL
49          1409038-005a      below
               Notes  x1 5mL TB
50 @7:08    1409038-001a      below
               Notes  x1 5mL
51 @7:56          tt          none
52
```

FC4

Archon skipped sample, but continued run SAMPLE LIST OFF BY 1

c10: TCE

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\090814v.rcl.

Loaded By: PA 9-9-14 DF 9/8/2014
1st Review By: PA 9-9-14 DF 9/9/2014
QA'd By: ✓ DF 9/9/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\090814v\100ng ccv 9-8-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 9/8/2014 Time Analyzed: 09:39

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	23423	7.99	34834	14.30	19427	17.91						
UPPER LIMIT	46846	8.49	69668	14.80	38854	18.41						
LOWER LIMIT	11712	7.49	17417	13.80	9714	17.41						
EPA SAMPLE NO												
rtm 9-8-20	29523	7.99	38252	14.31	21461	17.91						
b1 9-8-201	22616	7.99	32815	14.30	18889	17.91						
100ng lcs	21912	7.99	32520	14.30	17775	17.90						
2.0ug gro	23555	7.99	32824	14.30	18574	17.91						
2.5ug gro	22586	7.99	32356	14.30	17925	17.91						
vcb1 9-8-2	22805	7.99	33058	14.30	18534	17.90						
1409219-00	24872	7.99	33042	14.30	19084	17.91						
1409219-00	25001	7.99	30498	14.31	20830	17.91						
1409275-00	25955	7.99	32939	14.30	21890	17.91						
1409275-00	29637	7.99	35353	14.30	22805	17.91						
1409275-00	29088	7.99	35344	14.30	23747	17.91						
b2 9-8-201	25717	8.00	34940	14.30	18993	17.91						
1409275-00	24886	8.00	30876	14.31	20226	17.91						
1409275-00	26260	8.00	31833	14.31	21163	17.91						
1409275-00	26770	8.00	32440	14.31	20997	17.91						
1409275-00	27173	8.00	33276	14.31	21245	17.92						

RA 9.9.14

JB 9/9/14

9/9/2014 9:31

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1409275-01	26920	8.00	34624	14.31	22974	17.92						
1409275-01	25911	8.00	32423	14.31	22100	17.91						
1409275-01	28348	8.00	35043	14.32	23229	17.92						
1409219-00	28050	8.01	37273	14.32	20417	17.92						
b3 9-8-201	24316	8.00	33553	14.31	19447	17.91						
1409275-00	23429	8.00	34053 D	14.31 D	18190 D	17.92 D						
b4 9-8-201	21714	8.01	32578	14.32	17631	17.92						
1409275-00	22865	8.00	32168 D	14.31 D	0 D	17.91 D						
1409170-00	27884	8.00	37812	14.31	20293	17.91						
1409170-00	26297	8.00	35115	14.31	19284	17.91						
1409170-00	25418	8.00	35303	14.31	18986	17.91						
b5 9-8-201	22134	8.00	32782	14.31	18530	17.91						
75ng ccv 9	23528	8.00	33487	14.31	18294	17.91						
vcb2 9-8-2	20100	8.00	30699	14.30	17148	17.91						
1409069-00	23368	8.00	31575	14.31	20673	17.91						
lcs-15146	26721	7.99	35273	14.31	22190	17.91						
mb-15146 9	27919	8.00	32708	14.31	21244	17.91						
1409226-00	27722	8.00	34070	14.31	22482	17.91						
1409226-00	27957	7.99	35512	14.31	22888	17.91						
1409226-00	28078	7.99	35463	14.31	21897	17.91						
1409245-00	26031	8.00	34388	14.31	19405	17.91						
1408e83-00	22379	8.00	31204	14.31	17734	17.91						
1408f60-00	21991	8.00	32001	14.30	17670	17.91						
1408f60-00	22236	8.00	30601	14.31	17681	17.91						
1408f60-00	19913	8.00	30108	14.31	16507	17.91						
1408f60-00	19704	8.00	28821	14.31	16864	17.91						
1408f60-00	21348	8.00	30009	14.31	16764	17.91						
1409038-00	20008	8.00	31078	14.31	16802	17.91						
1409038-00	19552	8.00	27722	14.31	16362	17.91						
1409038-00	20846	8.00	28879	14.31	16476	17.91						
1409038-00	19788	8.00	29354	14.31	16388	17.91						
1409038-00	19868	8.00	29869	14.31	16514	17.91						
tt 9-9-201	20347	8.00	30085	14.31	16349	17.91						

RT 9-9-14

WB 9/9/14

Analyst: RAA

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/8/2014 Time: 9:39

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.182	0.100	100.00	159.83	-59.8	30.0	FAIL	PASS
Chloromethane	0.390	0.100	100.00	84.62	15.4	30.0	PASS	PASS
Vinyl chloride	1.409	0.100	100.00	104.26	-4.3	20.0	PASS	PASS
Chloroethane	0.234	0.100	100.00	104.27	-4.3	30.0	PASS	PASS
Bromomethane	1.348	0.100	100.00	160.90	-60.9	30.0	FAIL	PASS
Trichlorofluoromethane	0.939	0.100	100.00	113.24	-13.2	30.0	PASS	PASS
1,1-Dichloroethene	1.349	0.100	100.00	112.44	-12.4	20.0	PASS	PASS
Acetone	0.450	0.100	200.00	184.42	7.8	40.0	PASS	PASS
Carbon disulfide	1.156	0.100	200.00	246.48	-23.2	40.0	PASS	PASS
Iodomethane	0.121	0.100	200.00	64.29	67.9	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.291	0.100	200.00	205.88	-2.9	30.0	PASS	PASS
Isopropyl ether	1.483	0.100	200.00	221.13	-10.6	40.0	PASS	PASS
tert-Butyl alcohol	0.289	0.100	2000.00	2126.31	-6.3	40.0	PASS	PASS
trans-1,2-DCE	1.494	0.100	100.00	107.60	-7.6	30.0	PASS	PASS
tert-Butyl ethyl ether	2.949	0.100	200.00	224.15	-12.1	40.0	PASS	PASS
1,1-Dichloroethane	1.423	0.100	100.00	98.68	1.3	30.0	PASS	PASS
Methylene Chloride	1.575	0.100	100.00	107.36	-7.4	30.0	PASS	PASS
Vinyl Acetate	1.950	0.100	200.00	217.87	-8.9	40.0	PASS	PASS
2,2-Dichloropropane	0.892	0.100	100.00	111.42	-11.4	30.0	PASS	PASS
2-Butanone	0.480	0.100	200.00	177.79	11.1	40.0	PASS	PASS
1,1,1-Trichloroethane	1.496	0.100	100.00	100.96	-1.0	30.0	PASS	PASS
tert-Amyl methyl ether	1.411	0.100	200.00	205.77	-2.9	40.0	PASS	PASS
1,1-Dichloropropene	0.668	0.100	100.00	100.56	-0.6	30.0	PASS	PASS
Carbon Tetrachloride	3.237	0.100	100.00	105.12	-5.1	30.0	PASS	PASS
cis-1,2-DCE	1.995	0.100	100.00	103.50	-3.5	30.0	PASS	PASS
Benzene	1.906	0.100	100.00	105.56	-5.6	30.0	PASS	PASS
Chloroform	1.459	0.100	100.00	118.07	-18.1	20.0	PASS	PASS
Bromochloromethane	0.542	0.100	100.00	124.33	-24.3	30.0	PASS	PASS
Trichloroethene (TCE)	1.441	0.100	100.00	119.59	-19.6	30.0	PASS	PASS
Dibromofluoromethane	1.589	0.100	50.00	46.18	7.6	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.205	0.100	50.00	46.28	7.4	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.806	0.100	100.00	109.53	-9.5	30.0	PASS	PASS
1,2-Dichloropropane	2.008	0.100	100.00	109.65	-9.7	20.0	PASS	PASS
4-Methyl-2-pentanone	2.096	0.100	200.00	223.25	-11.6	40.0	PASS	PASS
Toluene-d8	1.828	0.100	50.00	46.71	6.6	30.0	PASS	PASS

9/8/2014 10:06

100ng ccv 9-8-2014.sms

Analyst: djf

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.780	0.100	100.00	105.40	-5.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.821	0.100	200.00	162.88	18.6	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.295	0.100	100.00	102.78	-2.8	30.0	PASS	PASS
cis-1,3-dichloropropene	2.037	0.100	100.00	98.20	1.8	30.0	PASS	PASS
2-Hexanone	1.011	0.100	200.00	221.92	-11.0	40.0	PASS	PASS
Bromodichloromethane	2.545	0.100	100.00	101.14	-1.1	30.0	PASS	PASS
Dibromomethane	1.124	0.100	100.00	96.89	3.1	30.0	PASS	PASS
1,3-Dichloropropane	1.413	0.100	100.00	96.69	3.3	30.0	PASS	PASS
trans-1,3-dichloropropene	0.717	0.100	100.00	91.80	8.2	30.0	PASS	PASS
Ethylbenzene	3.002	0.100	100.00	102.07	-2.1	20.0	PASS	PASS
mp-Xylenes	2.724	0.100	200.00	202.18	-1.1	30.0	PASS	PASS
1,1,2-Trichloroethane	1.661	0.100	100.00	95.02	5.0	30.0	PASS	PASS
Chlorobenzene	1.255	0.300	100.00	96.75	3.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.443	0.100	100.00	102.30	-2.3	30.0	PASS	PASS
o-Xylene	2.662	0.100	100.00	99.98	0.0	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.160	0.100	100.00	94.07	5.9	30.0	PASS	PASS
Dibromochloromethane	1.295	0.100	100.00	99.80	0.2	30.0	PASS	PASS
Isopropylbenzene	2.413	0.100	100.00	92.56	7.4	30.0	PASS	PASS
Styrene	1.216	0.100	100.00	95.90	4.1	30.0	PASS	PASS
n-Propylbenzene	6.252	0.100	100.00	101.95	-2.0	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.271	0.100	100.00	96.50	3.5	30.0	PASS	PASS
tert-Butylbenzene	4.335	0.100	100.00	88.75	11.2	30.0	PASS	PASS
2-Chlorotoluene	1.402	0.100	100.00	89.76	10.2	30.0	PASS	PASS
4-Bromofluorobenzene	1.715	0.100	50.00	42.07	15.9	30.0	PASS	PASS
sec-Butylbenzene	2.642	0.100	100.00	77.50	22.5	30.0	PASS	PASS
4-Chlorotoluene	1.460	0.100	100.00	89.78	10.2	30.0	PASS	PASS
Bromobenzene	1.357	0.100	100.00	100.32	-0.3	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.413	0.100	100.00	94.27	5.7	30.0	PASS	PASS
4-Isopropyltoluene	4.608	0.100	100.00	94.37	5.6	30.0	PASS	PASS
Bromoform	1.847	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
1,2,3-Trichloropropane	1.159	0.100	100.00	86.20	13.8	30.0	PASS	PASS
n-Butylbenzene	4.646	0.100	100.00	101.14	-1.1	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.890	0.300	100.00	103.22	-3.2	30.0	PASS	PASS
1,3-Dichlorobenzene	2.048	0.100	100.00	97.76	2.2	30.0	PASS	PASS
1,4-Dichlorobenzene	1.924	0.100	100.00	94.89	5.1	30.0	PASS	PASS
1,2-Dichlorobenzene	1.908	0.100	100.00	94.03	6.0	30.0	PASS	PASS
Hexachlorobutadiene	4.301	0.100	100.00	88.54	11.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.773	0.100	100.00	99.36	0.6	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.510	0.100	100.00	95.51	4.5	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.530	0.100	100.00	96.11	3.9	30.0	PASS	PASS
Naphthalene	2.939	0.100	100.00	95.28	4.7	30.0	PASS	PASS
2-Methylnaphthalene	2.295	0.100	100.00	101.56	-1.6	40.0	PASS	PASS
1-Methylnaphthalene	2.214	0.100	100.00	101.25	-1.2	40.0	PASS	PASS

11-9-14

djf 9/9/14

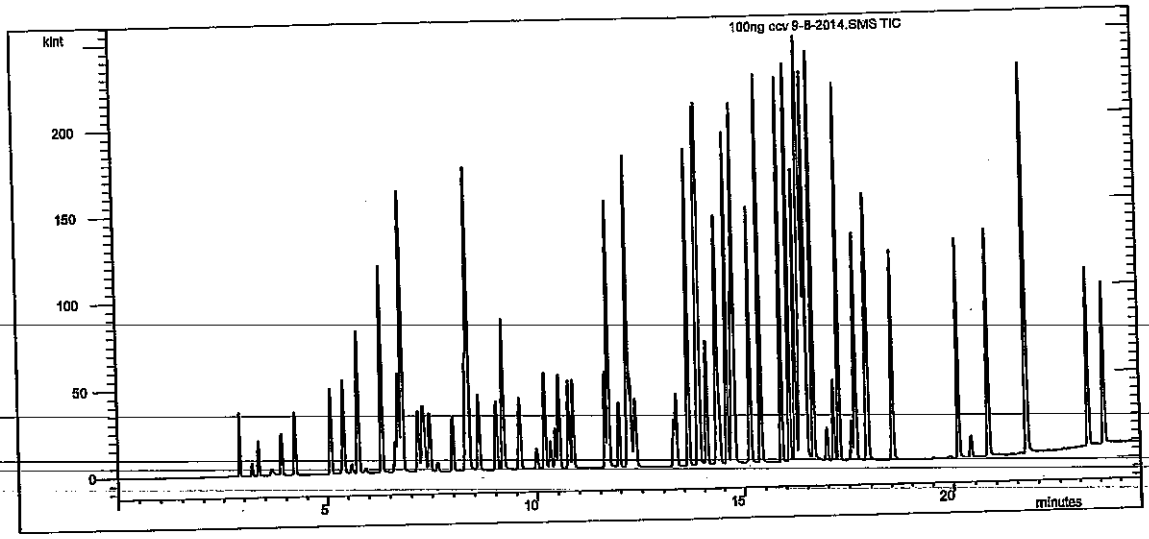
Analyst: djf

8260B/624 Report

Sample Name: 100ng ccv **Operator Name:** Danny Ferraro **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\080114V 8260,624.mth **Inj. Notes:** V-54-0481 **Acquisition Date:** 9/8/2014 9:39:01 AM

Calculation Date: 9/8/2014 10:03:30 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.993	635	Identified	23423	50.000
Benzene-d5-, chloro-	14.301	1192	Identified	34834	50.000
1,4-Dichlorobenzene-d4	17.905	1511	Identified	19427	50.000
Dichlorodifluoromethane	2.903	184	Identified	102225	159.829
Chloromethane	3.203	211	Identified	18256	84.616
Vinyl chloride	3.350	224	Identified	65986	104.262
Chloroethane	3.883	271	Identified	10945	104.268
Bromomethane	3.901	273	Identified	63141	160.901
Trichlorofluoromethane	4.223	301	Identified	43987	113.244
1,1-Dichloroethene	5.083	377	Identified	63207	112.441
Acetone	5.364	402	Identified	42123	184.418
Carbon disulfide	5.396	405	Identified	108340	246.477
Iodomethane	5.599	423	Identified	11322	64.292
Methyl tert-butyl ether (MTBE)	5.750	436	Identified	120947	205.877
Isopropyl ether	6.308	486	Identified	138928	221.126
tert-Butyl alcohol	6.633	514	Identified	270430	2126.310
trans-1,2-DCE	6.711	521	Identified	70007	107.597
tert-Butyl ethyl ether	6.798	529	Identified	276295	224.152
1,1-Dichloroethane	7.173	562	Identified	66650	98.677
Methylene Chloride	7.288	572	Identified	73779	107.360
Vinyl Acetate	7.342	577	Identified	182728	217.867
2,2-Dichloropropane	7.449	586	Identified	41808	111.419
2-Butanone	7.636	603	Identified	44930	177.791
1,1,1-Trichloroethane	8.306	663	Identified	70102	100.956

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.365	668	Identified	132207	205.769
1,1-Dichloropropene	8.380	669	Identified	31287	100.559
Carbon Tetrachloride	8.610	689	Identified	151620	105.121
cis-1,2-DCE	9.024	726	Identified	93480	103.496
Benzene	9.188	740	Identified	89266	105.556
Chloroform	9.583	775	Identified	68332	118.068
Bromochloromethane	9.992	811	Identified	25395	124.334
Trichloroethene (TCE)	10.187	828	Identified	67486	119.586
Dibromofluoromethane	10.324	841	Identified	37229	46.180
1,2-Dichloroethane-d4	10.439	851	Identified	98496	46.281
1,2-Dichloroethane (EDC)	10.530	859	Identified	84596	109.534
1,2-Dichloropropane	10.760	879	Identified	94050	109.654
4-Methyl-2-pentanone	10.859	888	Identified	196418	223.247
Toluene-d8	11.628	956	Identified	63686	46.714
Toluene	11.708	963	Identified	193645	105.403
2-Chloroethyl vinyl ether	11.962	985	Identified	114449	162.879
Tetrachloroethene (PCE)	12.172	1004	Identified	90221	102.783
cis-1,3-dichloropropene	12.171	1004	Identified	141937	98.197
2-Hexanone	12.177	1004	Identified	140890	221.923
Bromodichloromethane	12.241	1010	Identified	177326	101.137
Dibromomethane	12.346	1019	Identified	78332	96.888
1,3-Dichloropropane	13.247	1099	Identified	98436	96.694
trans-1,3-dichloropropene	13.309	1104	Identified	49981	91.798
Ethylbenzene	13.605	1130	Identified	209162	102.073
mp-Xylenes	13.856	1152	Identified	379531	202.181
1,1,2-Trichloroethane	14.058	1170	Identified	115712	95.022
Chlorobenzene	14.322	1194	Identified	87420	96.745
1,2-Dibromoethane (EDB)	14.380	1199	Identified	100524	102.298
o-Xylene	14.573	1216	Identified	185483	99.983
1,1,1,2-Tetrachloroethane	14.701	1227	Identified	150454	94.067
Dibromochloromethane	14.730	1230	Identified	90230	99.795
Isopropylbenzene	14.765	1233	Identified	168115	92.564
Styrene	15.158	1267	Identified	84697	95.896
n-Propylbenzene	15.400	1289	Identified	242920	101.955
1,3,5-Trimethylbenzene	15.890	1332	Identified	165961	96.497
tert-Butylbenzene	16.085	1349	Identified	168423	88.754
2-Chlorotoluene	16.235	1362	Identified	54465	89.757
4-Bromofluorobenzene	16.330	1371	Identified	33309	42.074
sec-Butylbenzene	16.362	1374	Identified	102665	77.498
4-Chlorotoluene	16.398	1377	Identified	56738	89.781
Bromobenzene	16.438	1380	Identified	52711	100.317
1,2,4-Trimethylbenzene	16.489	1385	Identified	171461	94.265
4-Isopropyltoluene	16.650	1399	Identified	179058	94.372
Bromoform	16.980	1428	Identified	71760	107.337
1,2,3-Trichloropropane	17.150	1443	Identified	45043	86.196
n-Butylbenzene	17.279	1455	Identified	180528	101.139
1,1,2,2-Tetrachloroethane	17.573	1481	Identified	73444	103.217
1,3-Dichlorobenzene	17.659	1489	Identified	79562	97.759
1,4-Dichlorobenzene	17.930	1513	Identified	74736	94.888
1,2-Dichlorobenzene	18.536	1566	Identified	74115	94.033

Operator: Danny Ferraro Inj. Notes: V-54-0481 100ng ccv 9-8-2014.SMS

9/8/2014 10:04

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.121	1706	Identified	167103	88.545
1,2-Dibromo-3-chloropropane	20.409	1732	Identified	30035	99.356
1,2,4-Trichlorobenzene	20.819	1768	Identified	58655	95.511
1,2,3-Trichlorobenzene	21.721	1848	Identified	59434	96.110
Naphthalene	21.729	1848	Identified	114190	95.284
2-Methylnaphthalene	23.214	1983	Identified	89185	101.560
1-Methylnaphthalene	23.601	2018	Identified	86023	101.248

****
Revision Log
****

9/8/2014 10:03 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/8/2014 Time: 10:35

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.0ug gro ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2797.808	0.100	2.00	2.00	-0.2	20.0	PASS	PASS
BFB	0.977	0.100	50.00	46.95	6.1	30.0	PASS	PASS

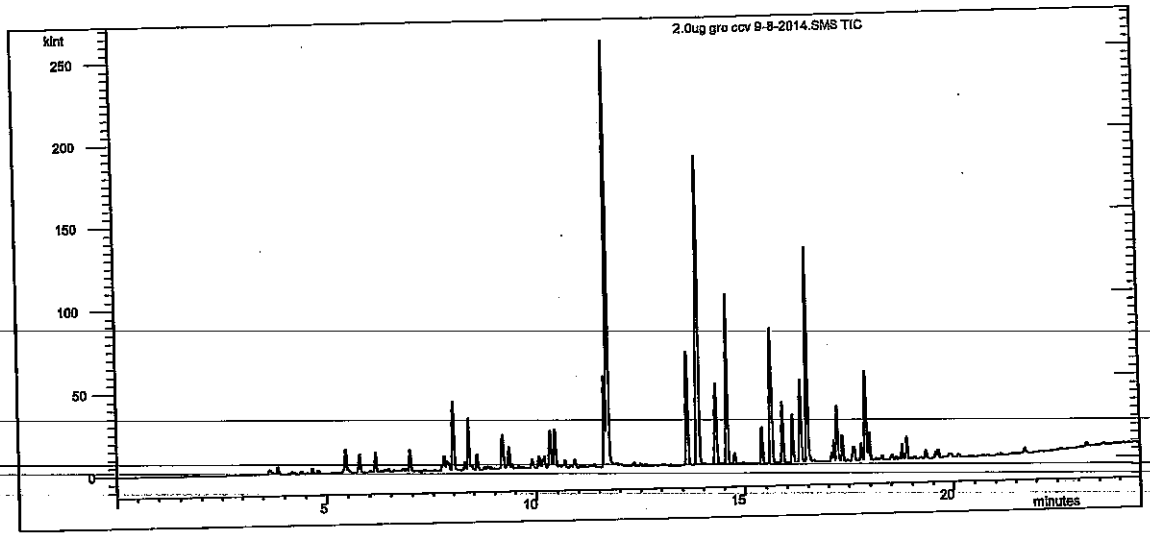
9.8.14

9/8/2014 11:02 Page 1 of 1 2.0ug gro ccv 9-8-2014.sms

Analyst: RAA

8015D MOD GRO

Sample Name:	2.0ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/8/2014 10:35:03 AM
Calculation Date:	9/8/2014 11:02:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.301	1194	Identified	33204	50.000
GRO	11.000	903	Identified	3.716E6	2.003
BFB	16.332	1374	Identified	32456	46.954

****
Revision Log
****

9/8/2014 10:59 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
9/8/2014 11:02 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

rian Star Workstation - Generic SampleList Mon Sep 08 15:15:04 2014

mpleList: C:\VarianWS\090814v.smp

eated: Mon Sep 08 08:18:09 2014
dified: Mon Sep 08 15:09:25 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes v-18-2064. all injections contain v-52-0530	
2	b1	none ← Tune 9:10
3	100ng ccv	below @ 9:39
	Notes V-54-0481	
4	100ng lcs	below
	Notes V-11-8074	
5	2.0ug gro ccv	below
	Notes v-18-2074	
6	2.5ug gro lcs	below
	Notes v-18-2067	
7	vcb1	none
8	1409219-001a	below
	Notes r1-100uL MeOH GRO	
9	1409219-002a	below
	Notes r1-100uL MeOH GRO	
10	1409275-002a	below
	Notes x1-100uL MeOH GRO	
11	1409275-002a ms g	below
	Notes V-18-2067 MeOH GRO	
12	1409275-002a msd g	below
	Notes V-18-2067 MeOH GRO	
13	b2	none
14	1409275-004a	below
	Notes x1-100uL MeOH GRO	
15	1409275-005a	below
	Notes x1-100uL MeOH GRO	
16	1409275-006a	below
	Notes x1-100uL MeOH GRO	
17	1409275-009a	below
	Notes x1-100uL MeOH GRO	
18	1409275-010a	below
	Notes x1-100uL MeOH GRO	
19	1409275-011a	below
	Notes x1-100uL MeOH GRO	
20	1409275-012a	below
	Notes x1-100uL MeOH Blk GRO, 8260	
21	1409219-009a	below
	Notes r10-10uL MeOH GRO, 8260 IS3	
22	b3	none
23	1409275-003a	below
	Notes x10-10uL MeOH GRO, 8260 ~~r100 = GRO, IS3 for 8260~~	
24	b4	none ← Tune 7:29
25	1409275-001a	below
	Notes x10-10uL MeOH GRO, 8260 r100 - GRO, 8260 IS3	
26	1409170-001ams	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
27	1409170-001amsd	below
	Notes r5 V-11-8070 SoilTCLP PB15122	
28 @ 9:21	1409170-001a	below
	Notes r5-20uL SoilTCLP PB15122	
29	b5	none
30	75ng ccv	~~none~~ V-54-0481 @ 10:17
31	vcb2	none
32	1409069-001a	below
	Notes r1-100uL MeOH QCw/PB15122	
33	lcs-15146	below
	Notes V-11-8070 SoilTCLP, 8260	
34	mb-15146	below
	Notes 4681 SoilTCLP, 8260	
35	1409226-001a	below
	Notes x1-100uL PB15146	
36	1409226-001ams	below
	Notes V-11-8070 PB15146	
37	1409226-001amsd	below
	Notes V-11-8070 PB15146	

DF 9/8/2014
Loaded By: [illegible] 9-8-14
1st Review By: [illegible] 9.9.14 DF 9/8/2014
QA'd By: [illegible] 9/9/14

```
39          1408e83-008a      below
               Notes  r20 0.25mL (B)
40          1408f60-001a      below
               Notes  x2 2.5mL (dds)
41       1408f60-001a ms      below
               Notes  x2 V-11-8074 (dds)
42      1408f60-001a msd      below
               Notes  x2 V-11-8074 (dds)
43          1408f60-002a      below
               Notes  x2 2.5mL (dds)
44          1408f60-003a      below
               Notes  x2 2.5mL (dds)
45          1408f72-001a      below
               Notes  x1 5mL SL_W
46          1409038-002a      below
               Notes  x1 5mL
47          1409038-003a      below
               Notes  x1 5mL
48          1409038-004a      below
               Notes  x1 5mL
49          1409038-005a      below
               Notes  x1 5mL TB
50 @7:08    1409038-001a      below
               Notes  x1 5mL
51 @7:56                tt       none
52
```

FC4

Archon skipped sample, but continued run
SAMPLE LIST OFF BY 1

c10 : TCE

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\090814v.rcl.

Loaded By: 9-9-14 DF 9/8/2014
1st Review By: 9-9-14 DF 9/9/2014
QA'd By: ✓ DB 9/9/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0914v\091214v\100ng ccv 9-12-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 9/12/2014 Time Analyzed: 10:55

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	65140	7.99	85824	14.30	44141	17.91						
UPPER LIMIT	130280	8.49	171648	14.80	88282	18.41						
LOWER LIMIT	32570	7.49	42912	13.80	22071	17.41						
EPA SAMPLE NO												
rtm 9-12-2	63034	7.99	89413	14.30	45661	17.91						
b1 9-12-20	63533	7.99	82925	14.30	46465	17.90						
2.5ug gro	59765	7.99	85890	14.30	45137	17.90						
2.5ug gro	61402	7.99	81533	14.30	44403	17.90						
100nglcs20	58793	7.99	79192	14.30	44430	17.91						
vcb1 9-12-	59367	7.99	77550	14.30	40169	17.91						
1408275-00	58947	7.99	82405	14.30	43737 D	17.91 D						
b2 9-12-20	58845	7.99	78041	14.30	42901	17.91						

RA 9-12-14
RAA 9/12/14

9/12/2014 13:18
Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

9/12/2014 13:18
Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 9/12/2014 Time: 9:59

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/11/2014 9/11/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 13:36 13:36

Initial Calibration File: H:\Val\Data\2014v\0914v\091114v gro crv\2.5ug gro cal 9-11-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 9-12-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2637.486	0.100	2.50	2.54	-1.7	20.0	PASS	PASS
BFB	0.968	0.100	50.00	47.37	5.3	30.0	PASS	PASS

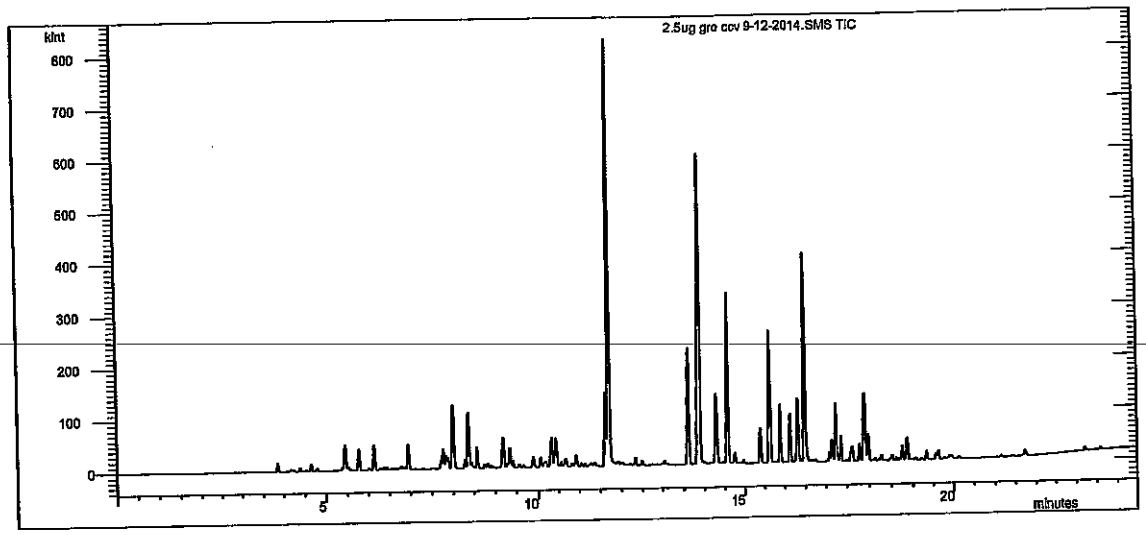
9-12-14

✓ NBG 9/12/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\091014V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/12/2014 9:59:34 AM
Calculation Date:	9/12/2014 10:29:11 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.296	1203	Identified	85629	50.000
GRO	11.000	908	Identified	1.129E7	2.543
BFB	16.329	1385	Identified	82867	47.370

```
************************************************************
Revision Log
************************************************************

9/12/2014 10:24 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\091014V 8260,624.mth'
9/12/2014 10:29 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\091114v GRO.mth'
```

aList: C:\VarianWS\[illegible]

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time @ 7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By: 8-4-14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 0801 14v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits OQL: 22.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	pQL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	cr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	pQL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Chorcethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VQL: 22,27,28
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3	
100ng icv	42059	7.99	59018	14.30	34060	17.90
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KSH 8/4/14

AREA#	RT #	AREA#	RT #	AREA#	RT #

JH 8.4.14

8/4/2014 9:03
Analyst: KJH

Internal Standard And RT Summary

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but ≤101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

JH 8.4.14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.157	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

JAA 8.4.14 KSH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

J 8.4.14

8/4/2014 9:03

Analyst: KJH

100ng crv 8-1-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

2 hits on different crv.

8/4/14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

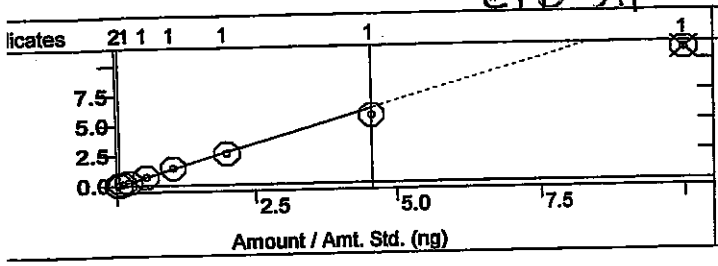
KJH 8/4/14

Analyst: KJH

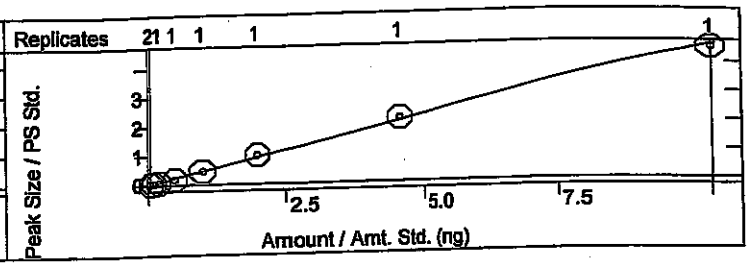
hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
: +1.3682x -0.0093

CPD Fit



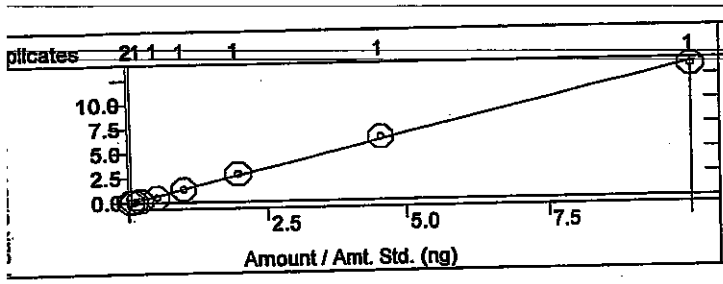
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

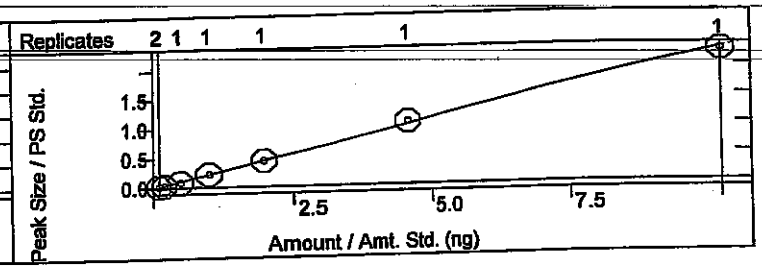


inyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

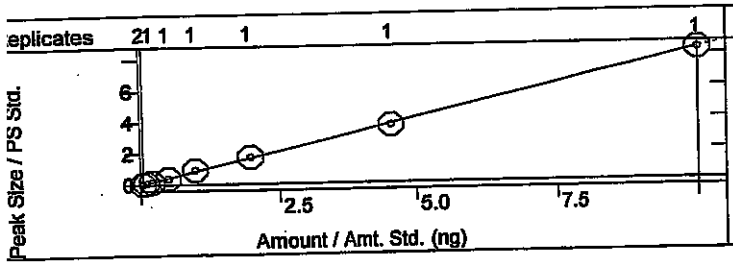
CPD Fit

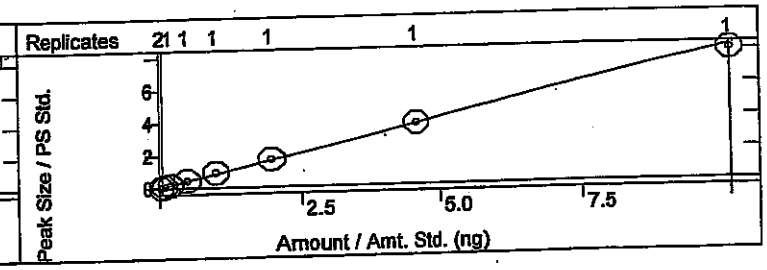




Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032

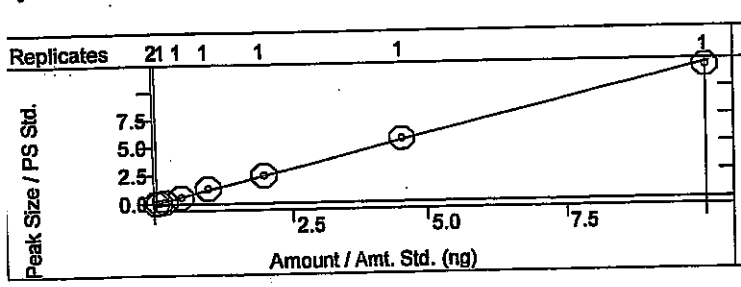
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090

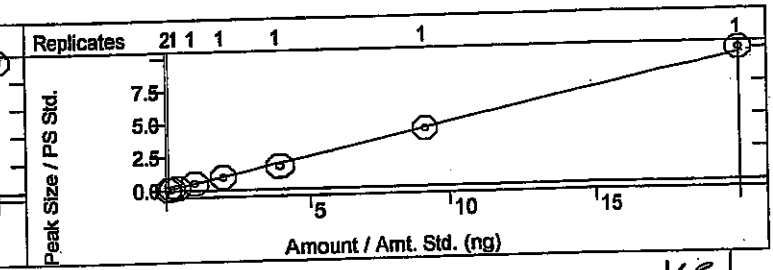




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237





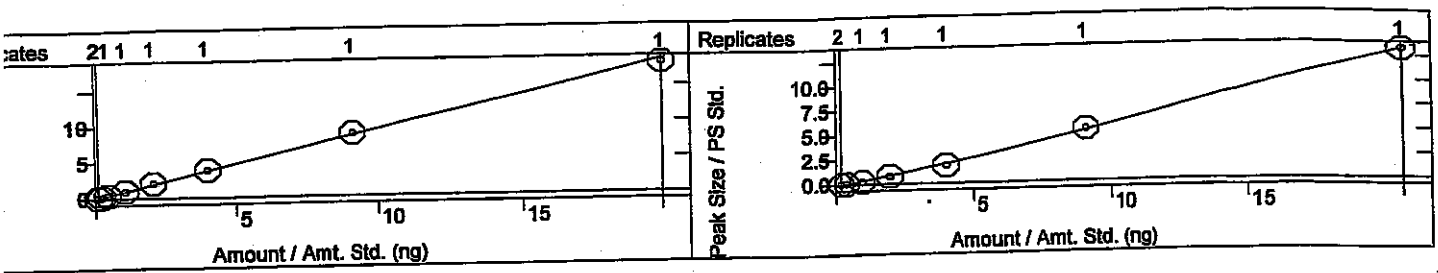
KSH 8/4/14

iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
c Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
p. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

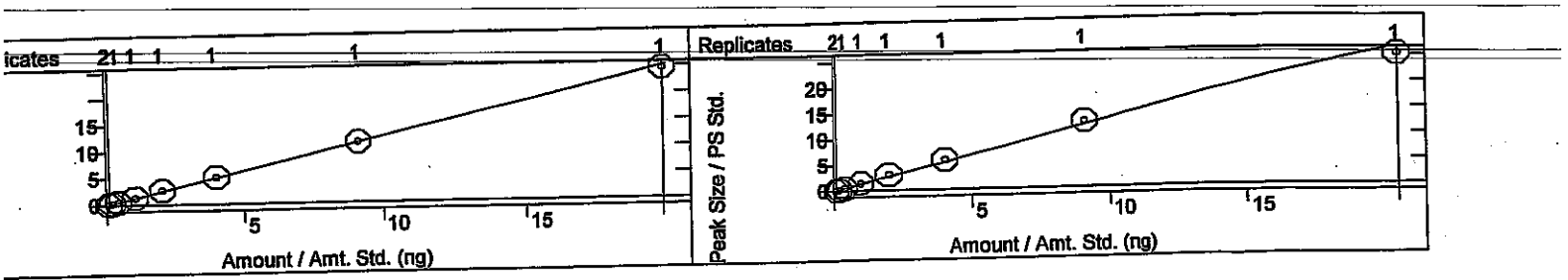
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

CPD 5.4



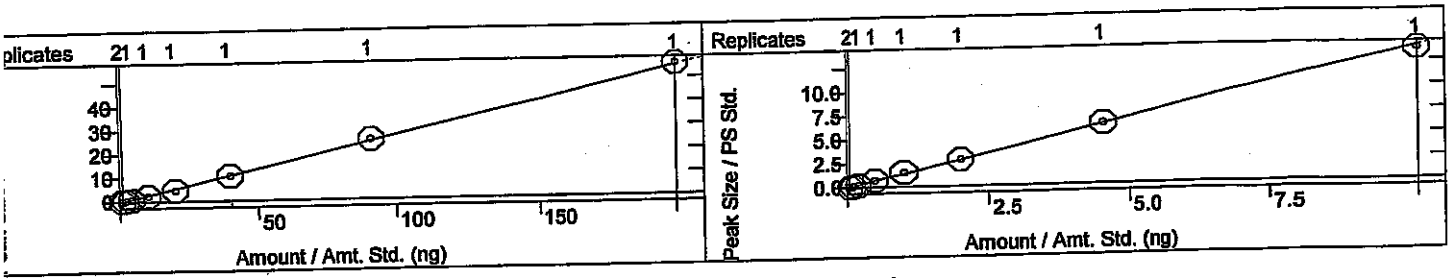
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



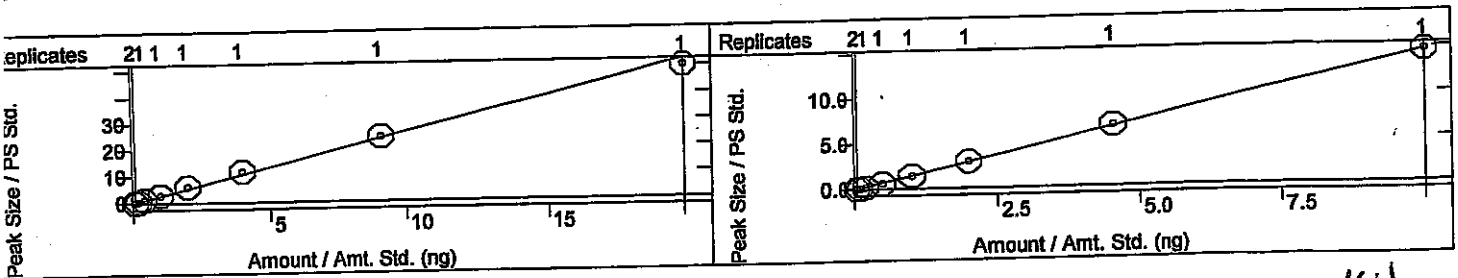
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
/ = +2.6347x -0.0155

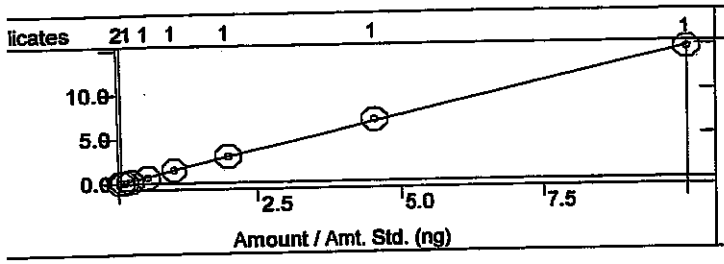
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



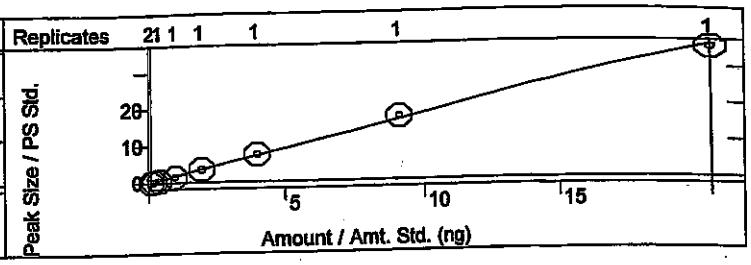
KSH 8/4/14

thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

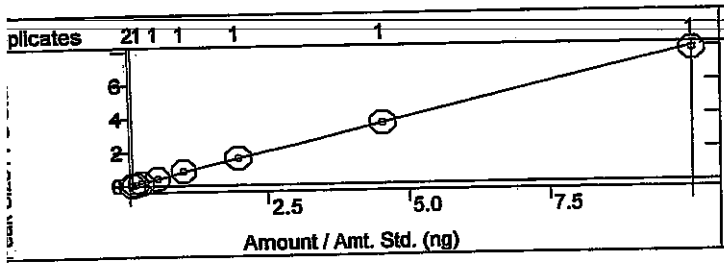
thylene Chloride
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
= +1.4799x -0.0278



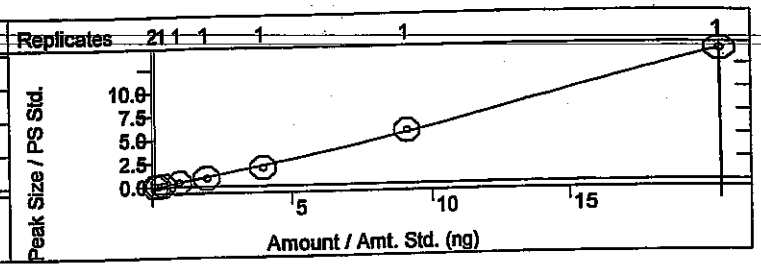
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



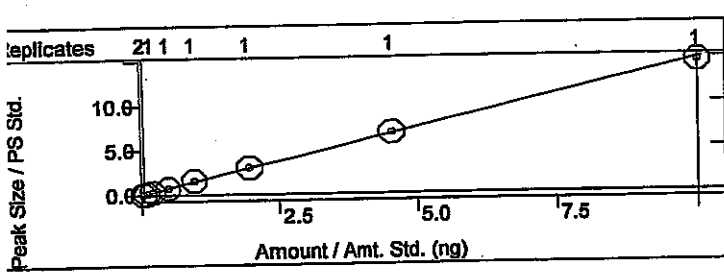
2-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095



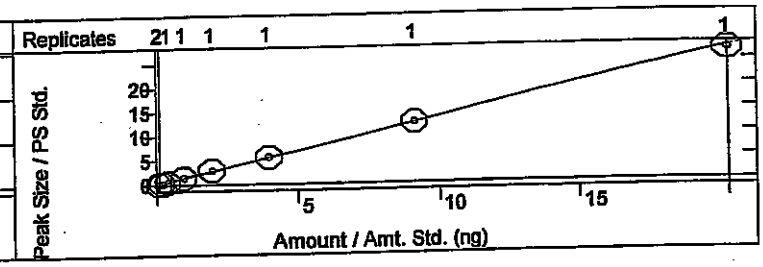
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



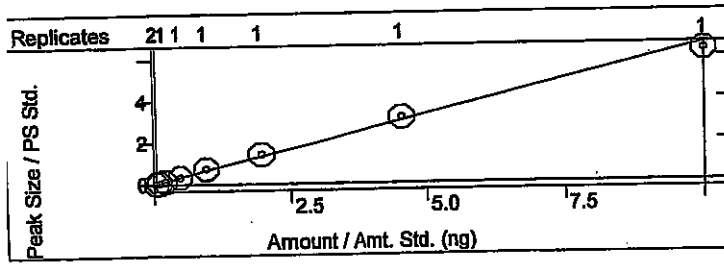
l,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
y = +1.4855x -0.0066



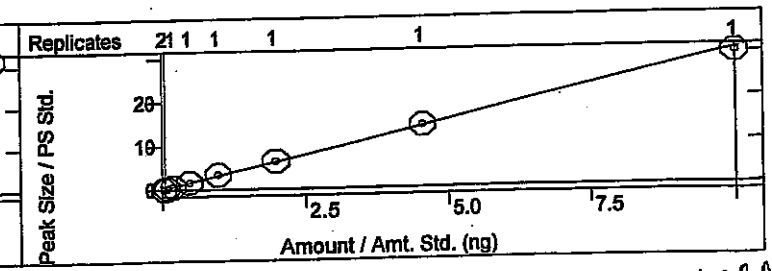
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

ıod:	c:\varianws\methods\080114v 8260,624.mth		
aic Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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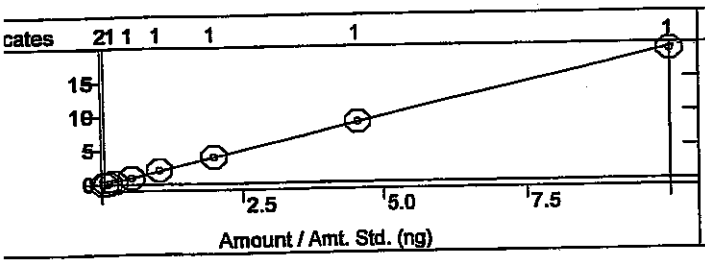
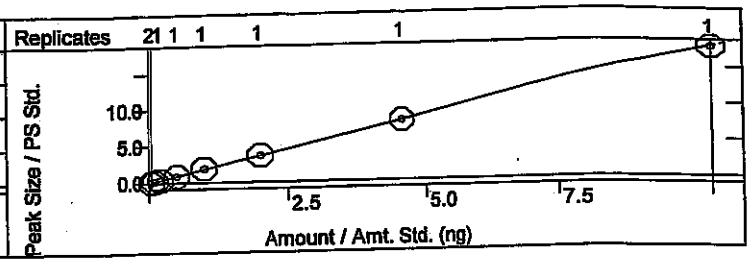
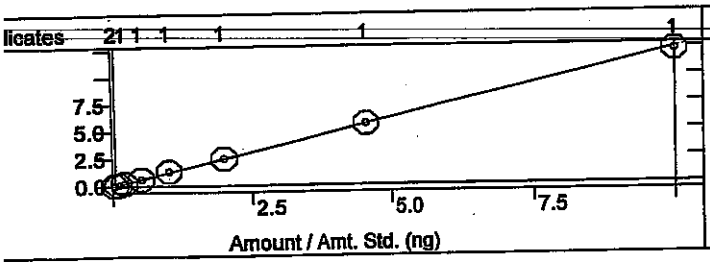
·1,2-DCE
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226



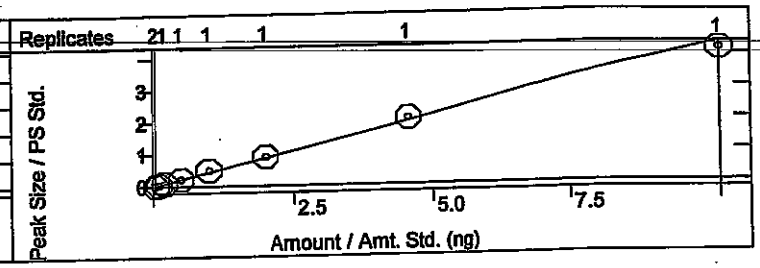
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



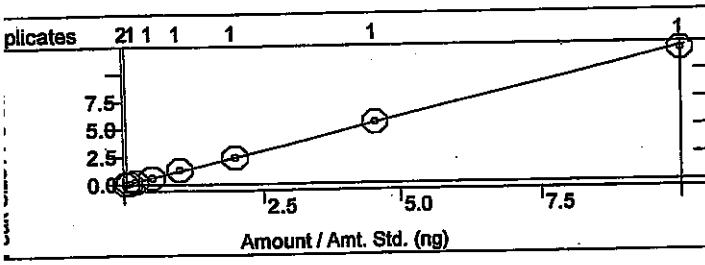
loroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
: +1.2389x -0.0082



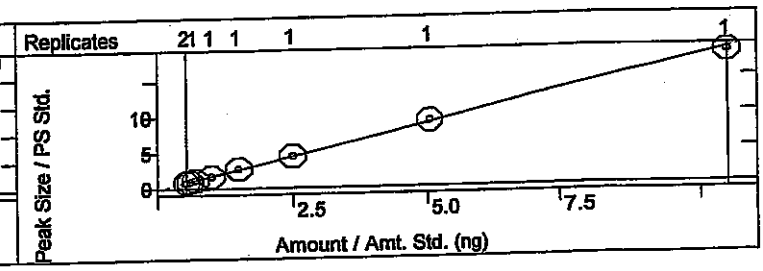
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



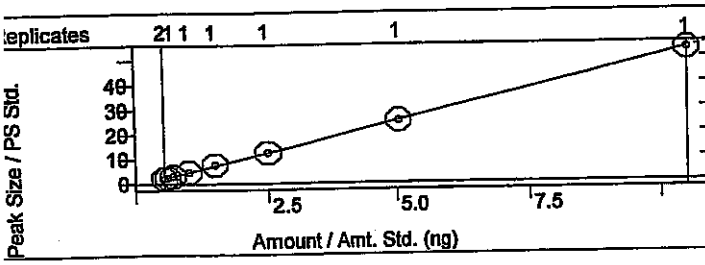
richloroethene (TCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034



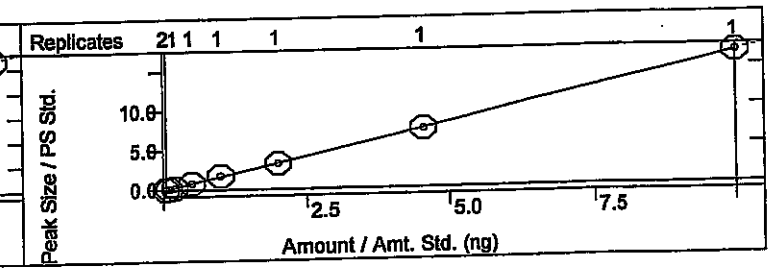
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



l,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
lk Measurement:	Area	Calibration Type:	Internal Standard Analysis

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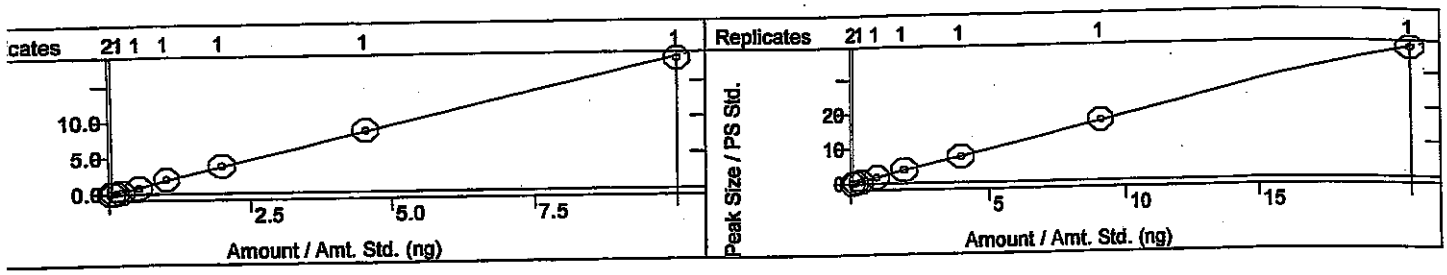
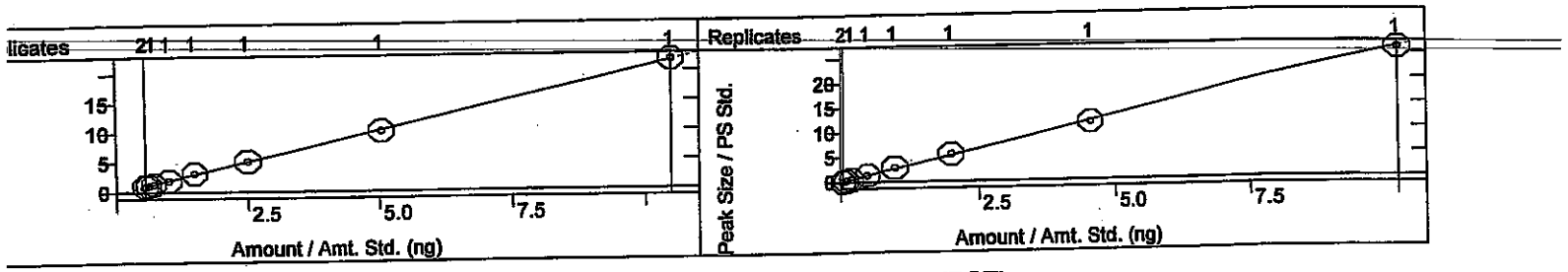
-Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



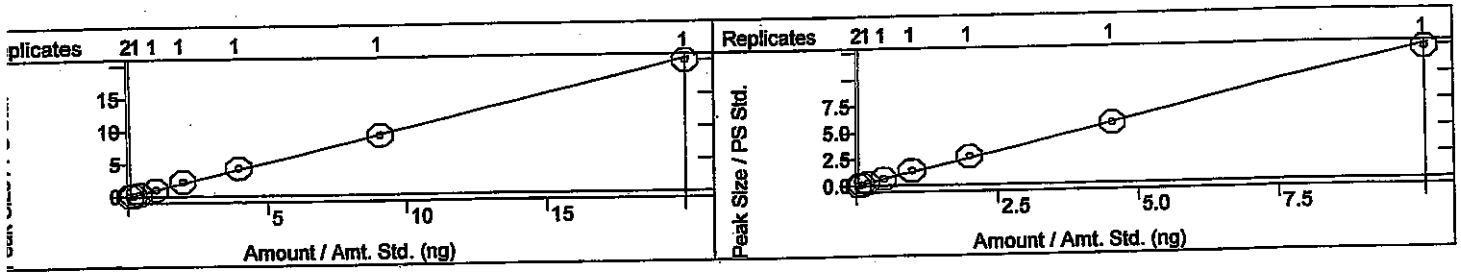
luene-d8
irve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
= +2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



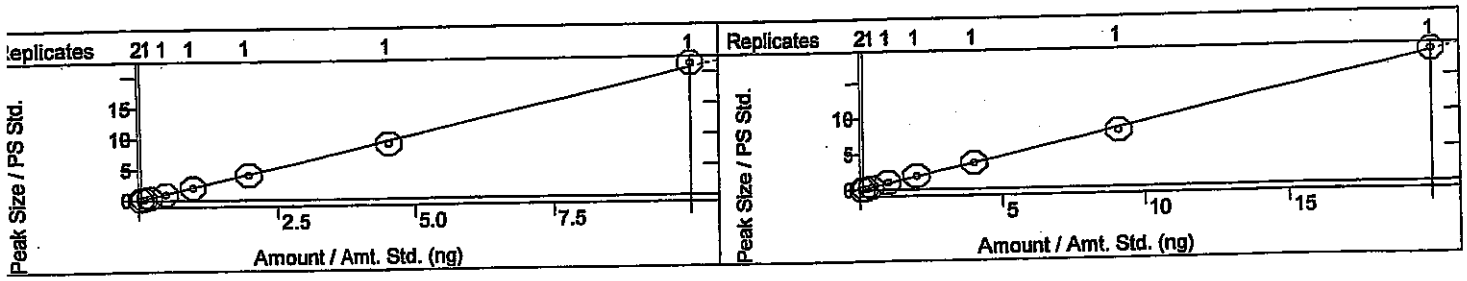
-Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



:is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



hod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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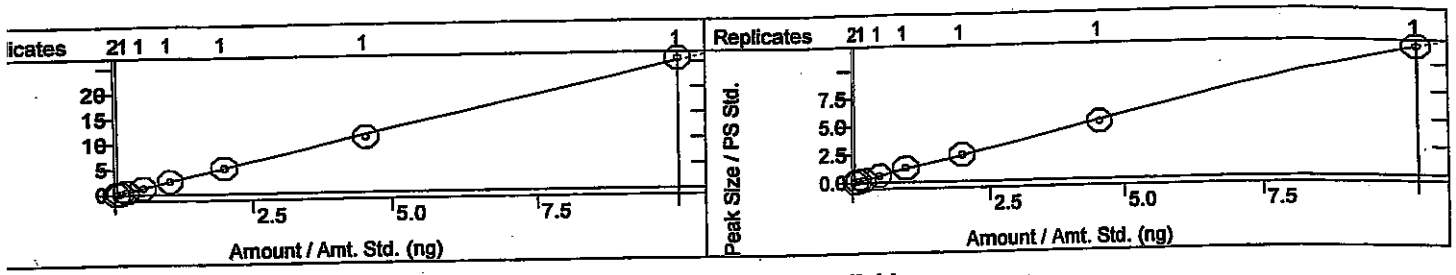
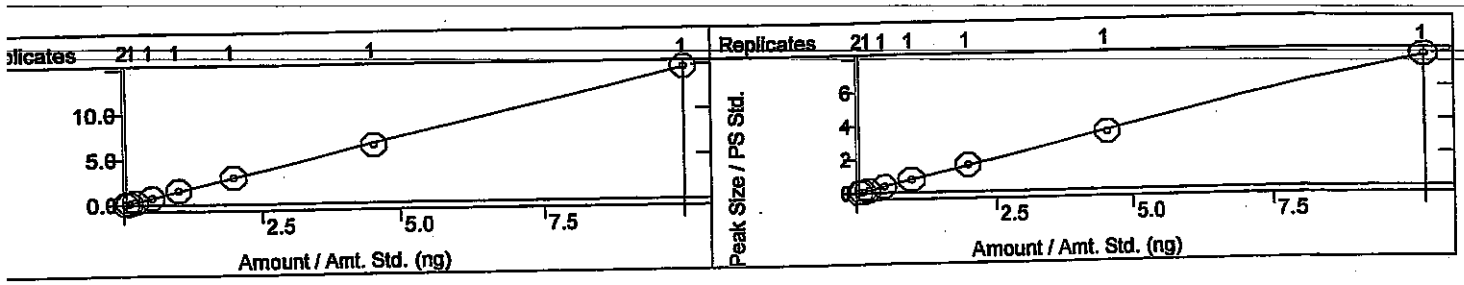
omodichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
: +2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



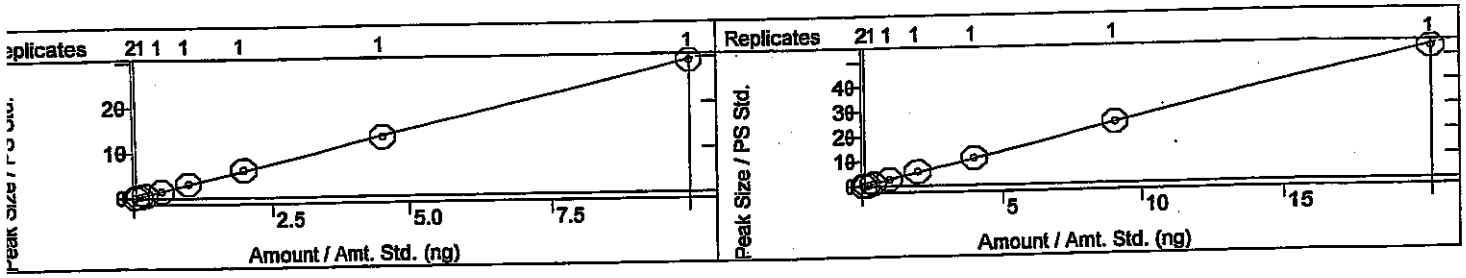
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



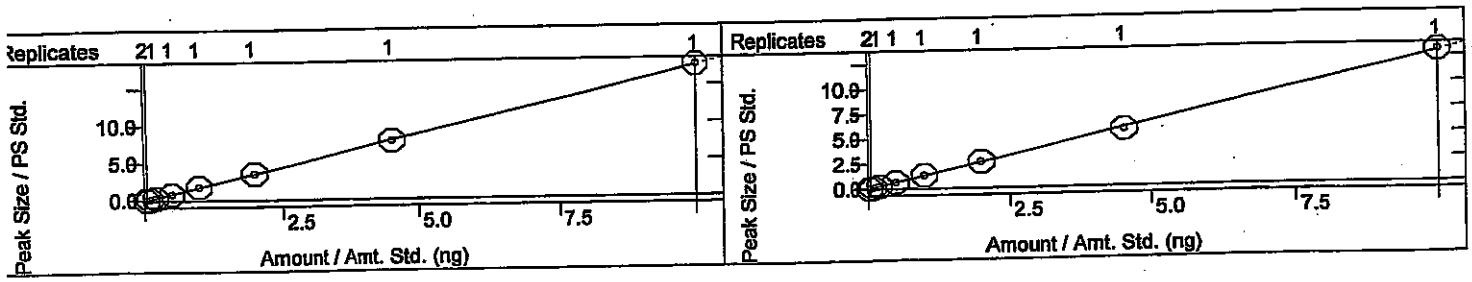
thylbenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
s Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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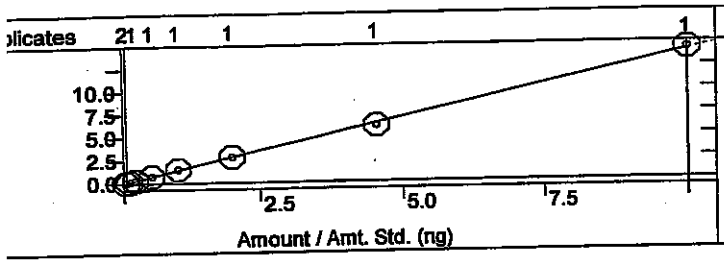
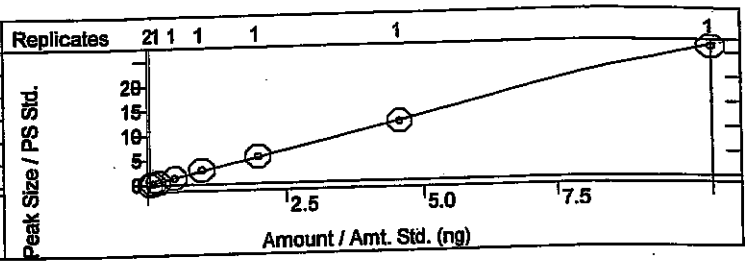
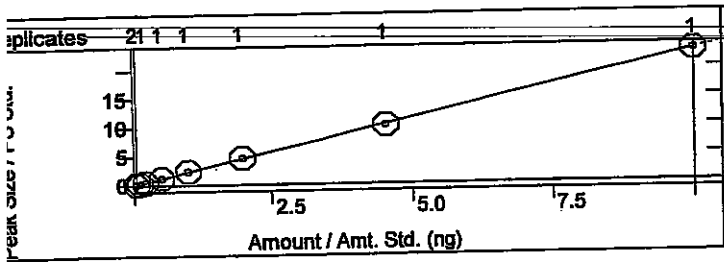
2-Dibromoethane (EDB)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



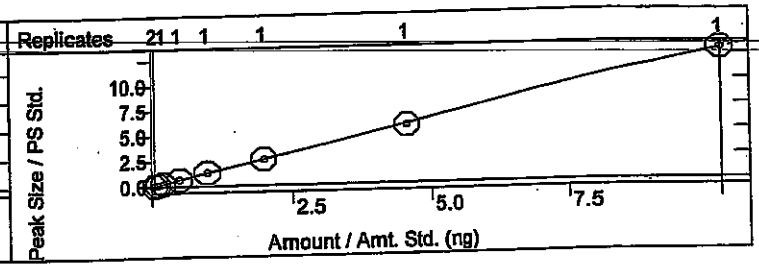
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



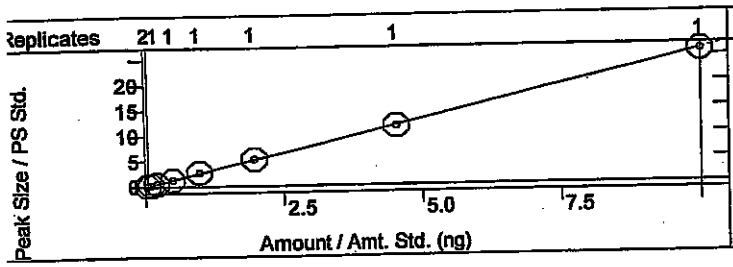
,1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016



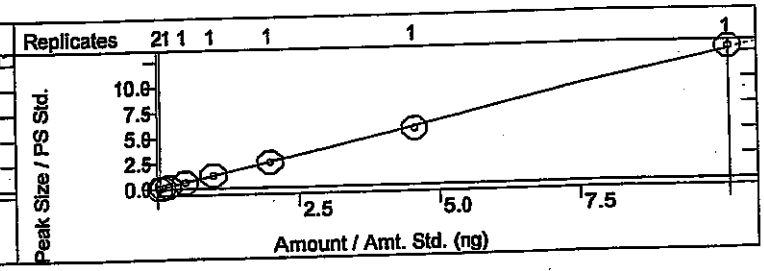
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



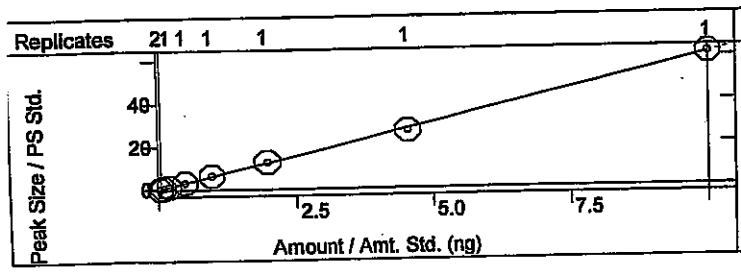
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035



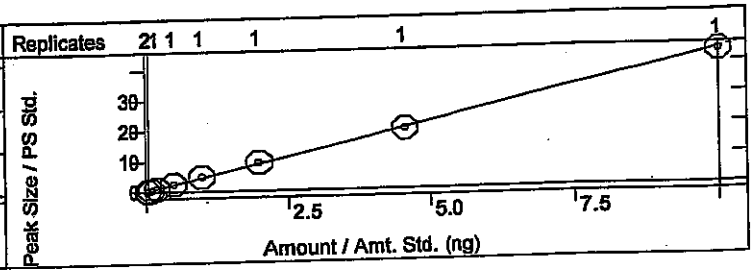
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

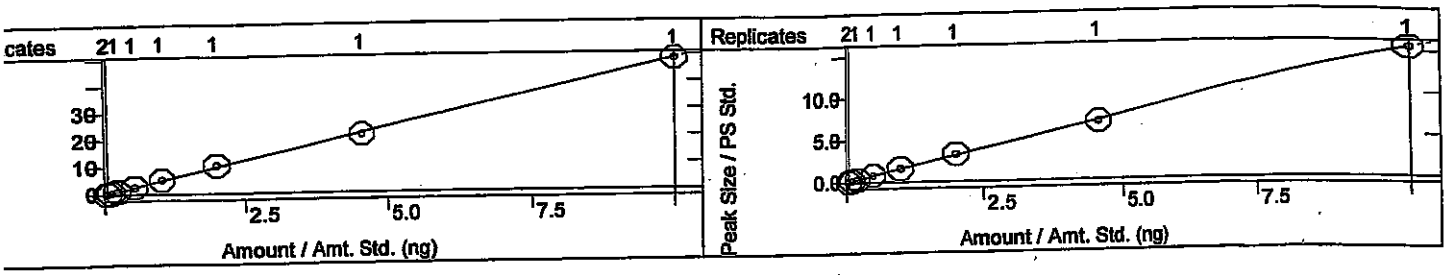


ıod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ıple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ık Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

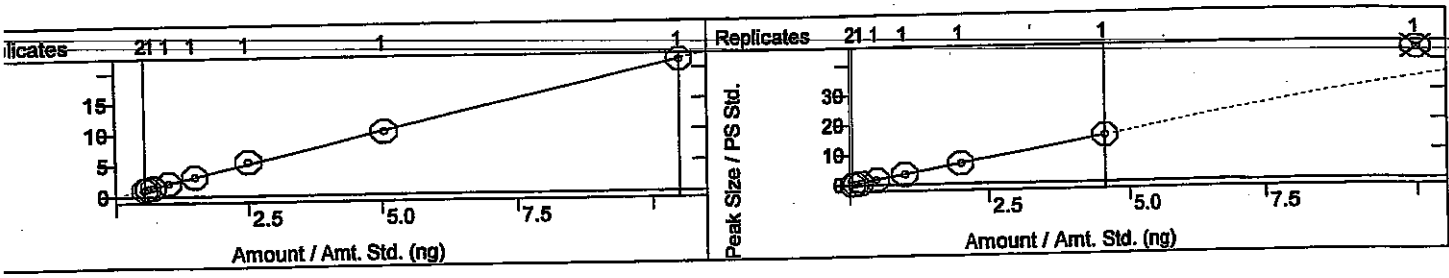
-Butylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



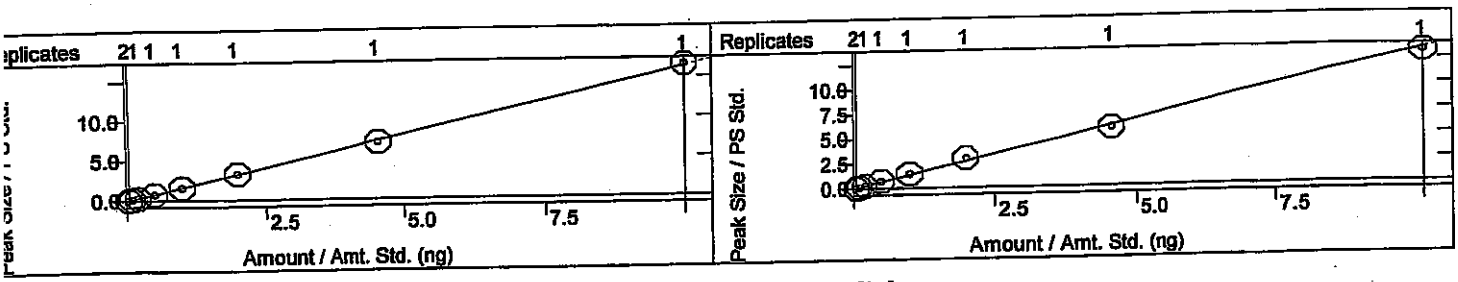
Bromofluorobenzene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
= +2.0454x -0.0066

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



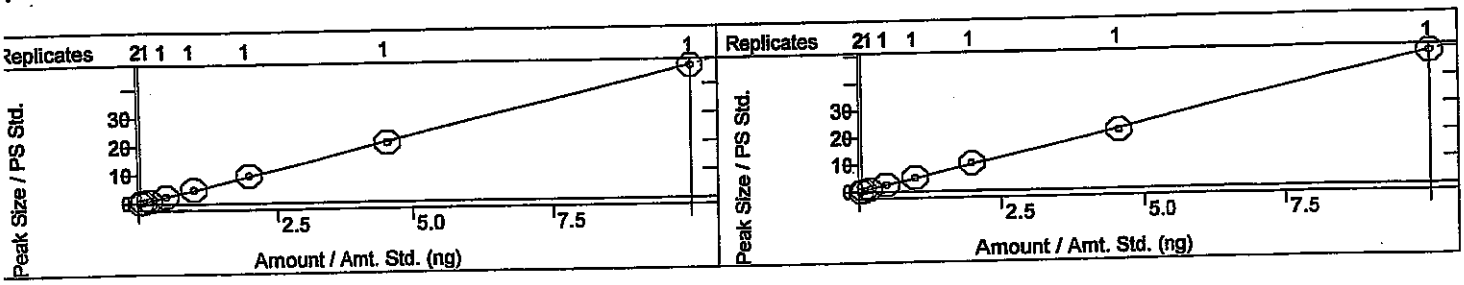
-Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045

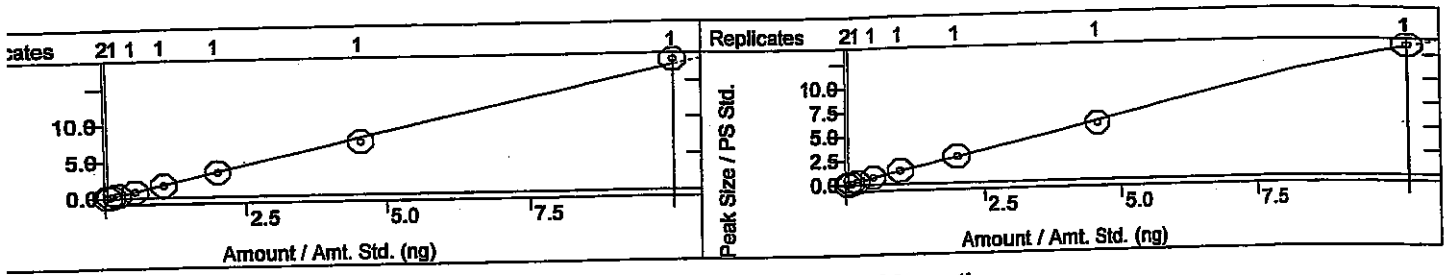


iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
‹ Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

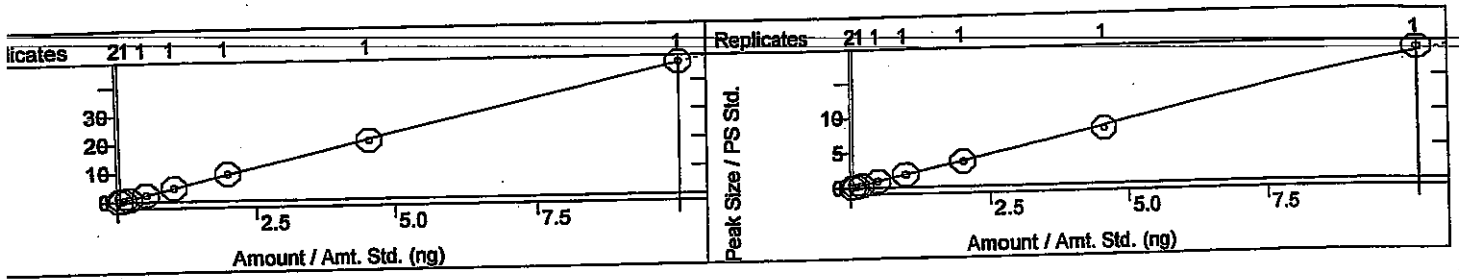
moform
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



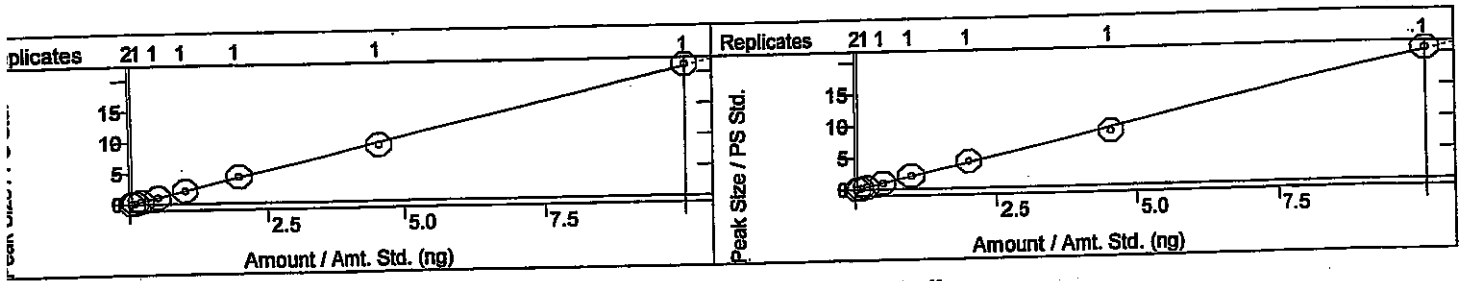
Butylbenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



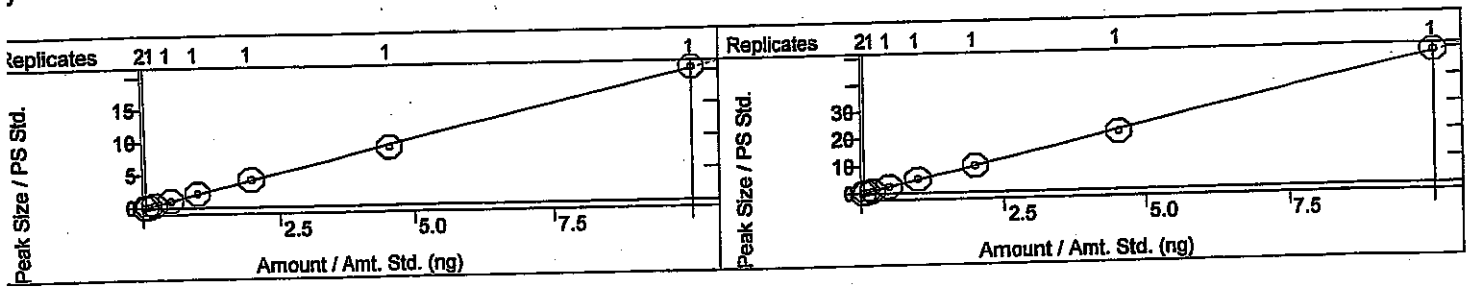
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
y = +2.0262x +0.0044

Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

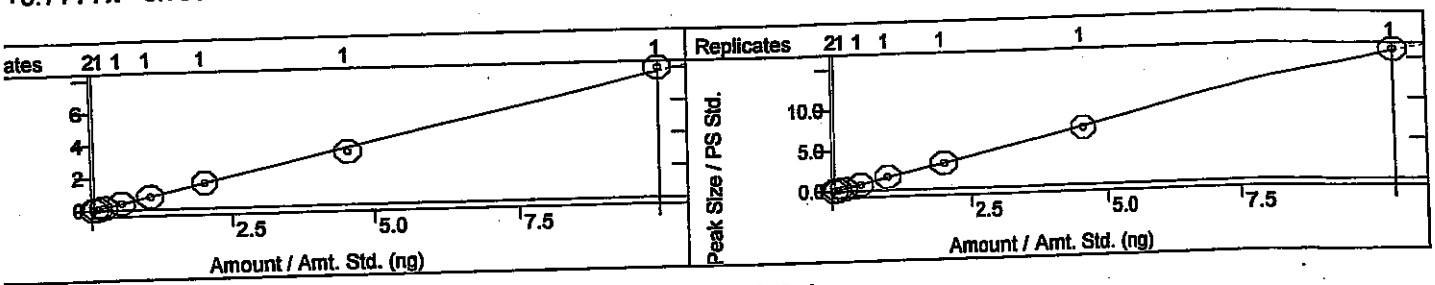


od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ole List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

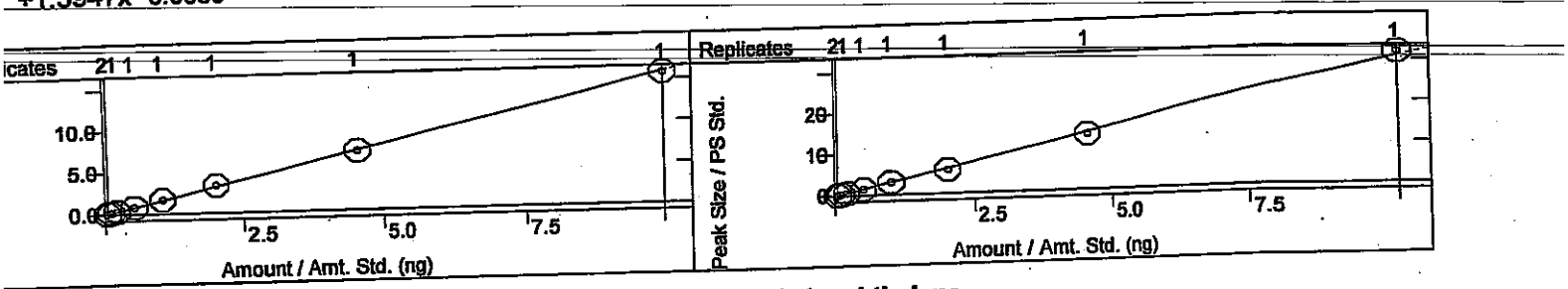
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



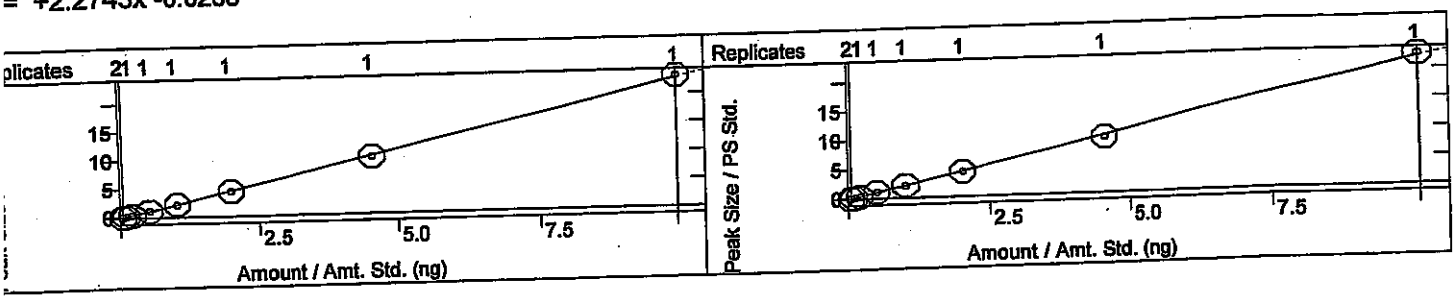
3-Trichlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
+1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



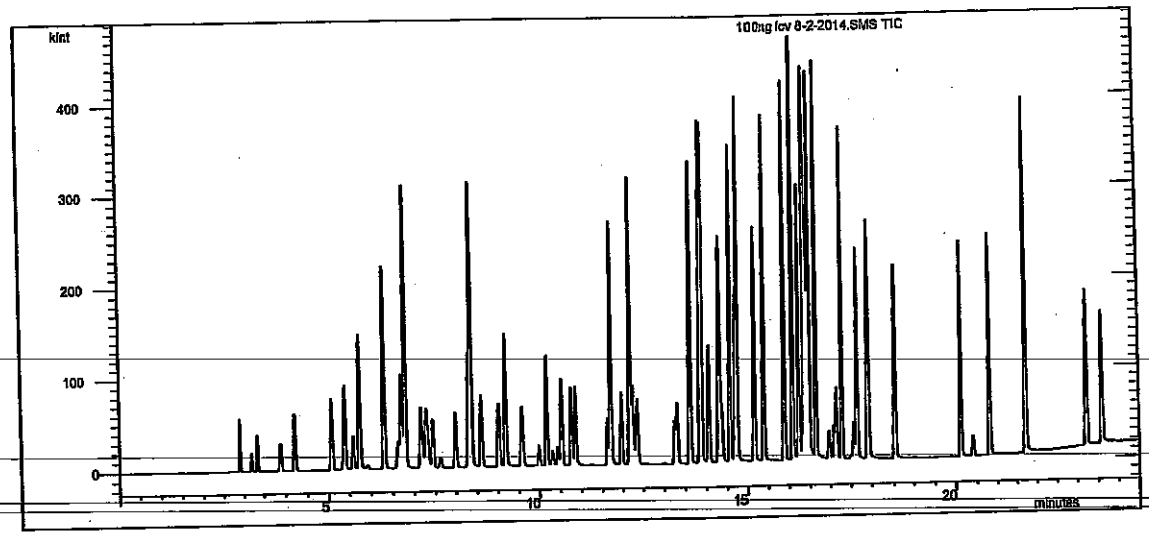
Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

an Star Workstation - Generic Sample

leList: C:\VarianWS\070614v.smp

ted: Sun Jul 06 15:00:06 2014
fied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: JNB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL: 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract: | SDG No:

Lab Code: | Case No.: | SAS No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS | Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL | Date Analyzed: 7/6/2014 | Time Analyzed: 23:40

GC Column: DB-VRX | ID: 250 (mm) | Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

JB NB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

- [ ]
- [x]

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/7/2014 9:37

Analyst: RAA

Internal Standard And RT Summary

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

RA 7-7-14

NB 7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

SB 7/8/14

2.5ug gro crv 7-6-2014.SMS

7/7/2014 9:37

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

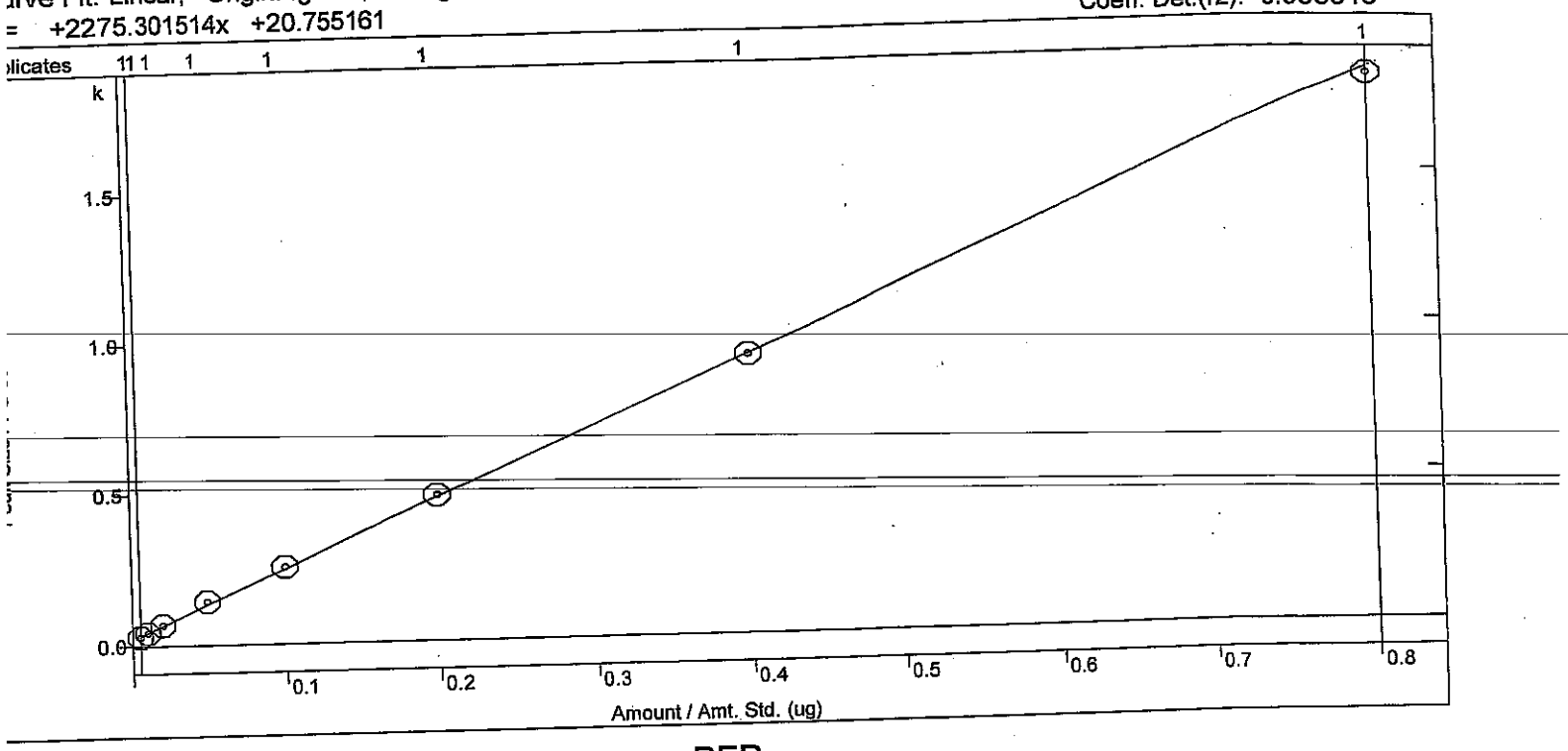
alibration Curves Report

thod:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
calc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
; Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

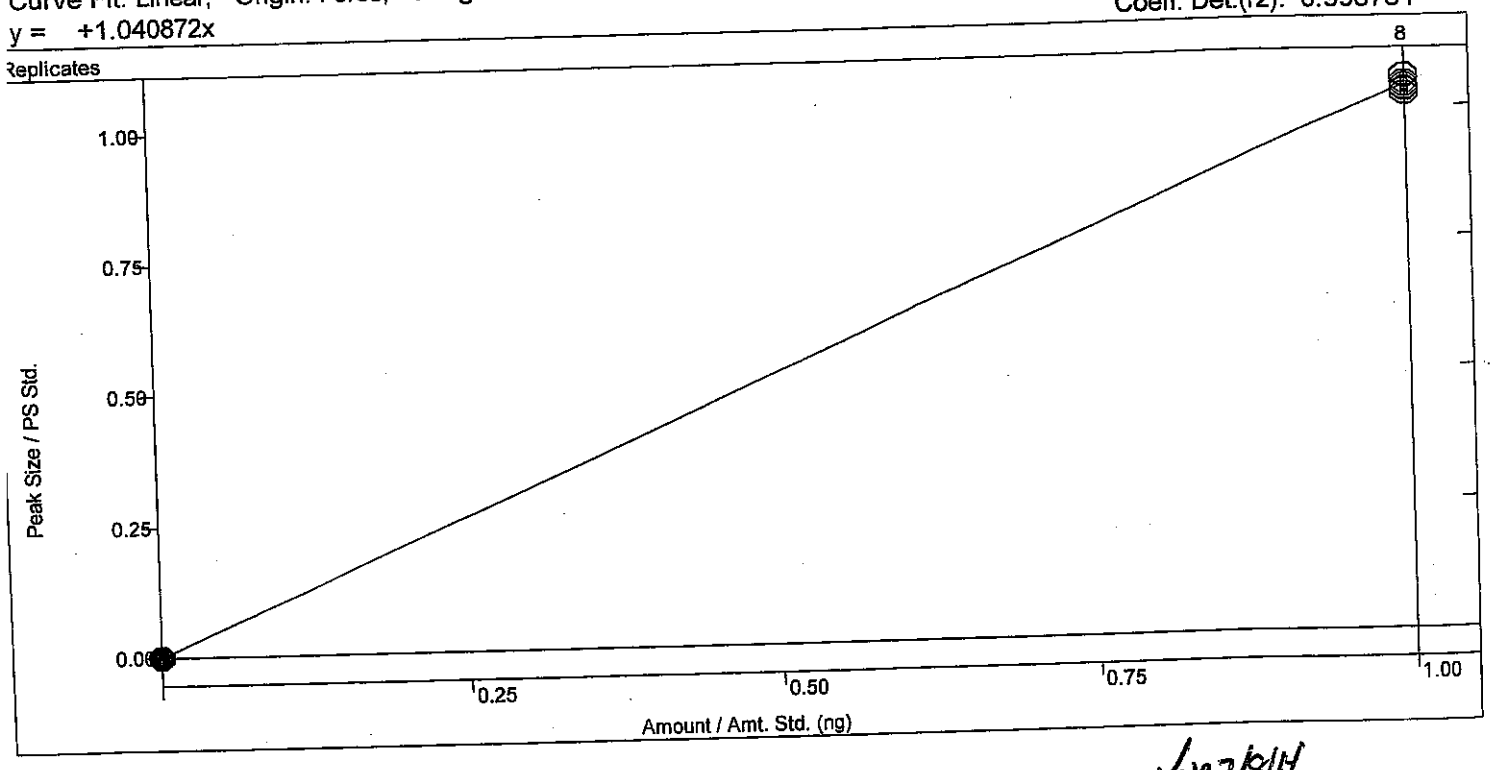
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JW 7/8/14

cian Star Workstation - Generic SampleList Thu Sep 11 16:35:09 2014

mpleList: C:\VarianWS\091114v.smp

eated: Thu Sep 11 10:00:55 2014
dified: Thu Sep 11 16:35:04 2014

****

Line	Sample Name	Injection Notes
1	b1	below ← Tune 10:20
	Notes all injections contain v-52-0534	
2	227.27ng annex doc1	below ← Using as ICV for Annex Curve
	Notes v-11-8076 djf	
3	227.27ng annex doc2	below
	Notes v-11-8076 djf	
4	227.27ng annex doc3	below
	Notes v-11-8076 djf	
5	227.27ng annex doc4	below
	Notes v-11-8076 djf	
6	b2	none
7	b3	none
8	0.25ug gro cal	below
	Notes v-18-2074	
9	0.5ug gro cal	below
	Notes v-18-2074	
10	1.0ug gro cal	below
	Notes v-18-2074	
11	2.5ug gro cal	below
	Notes v-18-2074	
12	5.0ug gro cal	below
	Notes v-18-2074	
13	10.0ug gro cal	below
	Notes v-18-2074	
14	b4	none
15	20.0ug gro cal	below
	Notes v-18-2074	
16	b5	none
17	40.0ug gro cal	below
	Notes v-18-2074	
18	b6	none
19	b7	none
20	2.5ug gro icv	below
	Notes v-18-2067	
21	b8	none
22	crtm	below
	Notes v-18-2064	
23	crtmfull	below
	Notes v-18-1781	
24	b9	none ← 9:06
25		

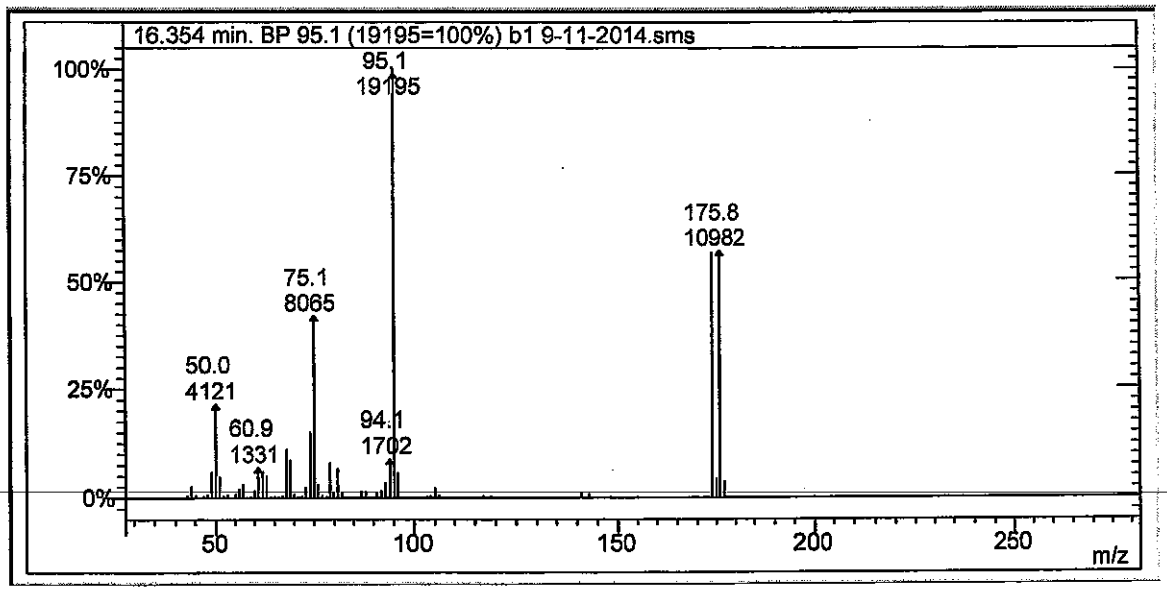
Loaded By: [illegible] 9/11/2014
1st Review By: [illegible] 9/12/2014
QA'd By: [illegible] 9.12.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\091114v.rcl.

BFB 8260B Report



Lab File ID: b1 9-11-2014.sms

Injection Date: 9/11/2014

Injection Time: 10:20

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	21.47	PASS
75	30-60% of m/z 95	42.02	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	5.69	PASS
173	<2% of m/z 174	0.19	PASS
174	>50% of m/z 95	56.78	PASS
175	5-9% of m/z 174	7.38	PASS
176	>95% but <101% of m/z 174	100.77	PASS
177	5-9% of m/z 176	6.35	PASS

9/12/2014

9-12-14

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 9/11/2014 9/11/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:36 13:36

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0914v\091114v gro crv\gro recalc\2.5ug gro cal 9-11-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 9/11/2014 13:36	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6531.918	4397.951	3434.402	2763.873	2628.814	2409.682	2120.333	2086.676	0.9990	3296.706	46.0	PASS	PASS
BFB	1.000	0.979	0.978	1.000	1.026	1.020	1.058	1.112	0.9849	1.021	4.4	PASS	PASS
									Average %RSD		25.2		

9-12-14

9/12/2014

Analyst: djf

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b1 9-11-2014.sms Injection Date: 9/11/2014

Instrument ID: VAL Injection Time: 10:20

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	21.5	
75	30-60% of m/z 95	42.0	
95	base peak	100.0	
96	5-9% of m/z 95	5.7	
173	<2% of m/z 174	0.1 (0.2)	174
174	>50% of m/z 95	56.8	
175	5-9% of m/z 174	4.2 (7.4)	174
176	>95% but <101% of m/z 174	57.2 (100.8)	174
177	5-9% of m/z 176	3.6 (6.3)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b1 9-11-20	b1	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b1 9-11-2014.SMS	9/11/2014 10:20
3b2 9-11-20	b2	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b2 9-11-2014.SMS	9/11/2014 12:40
4b3 9-11-20	b3	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b3 9-11-2014.SMS	9/11/2014 13:08
50.25ug gro	0.25ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\0.25ug gro cal 9-11-2014.SMS	9/11/2014 13:36
60.5ug gro	0.5ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\0.5ug gro cal 9-11-2014.SMS	9/11/2014 14:04
71.0ug gro	1.0ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\1.0ug gro cal 9-11-2014.SMS	9/11/2014 14:33
82.5ug gro	2.5ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\2.5ug gro cal 9-11-2014.SMS	9/11/2014 15:01
95.0ug gro	5.0ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\5.0ug gro cal 9-11-2014.SMS	9/11/2014 15:30
1010.0ug gro	10.0ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\10.0ug gro cal 9-11-2014.SMS	9/11/2014 15:58

DF 9/12/2014

Analyst: djf

JA 9.12.14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
11 b4 9-11-20	b4	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b4 9-11-2014.SMS	9/11/2014 16:26
12 20.0ug gro	20.0ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\20.0ug gro cal 9-11-2014.SMS	9/11/2014 16:54
13 b5 9-11-20	b5	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b5 9-11-2014.SMS	9/11/2014 17:22
14 40.0ug gro	40.0ug gro cal	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\40.0ug gro cal 9-11-2014.SMS	9/11/2014 17:50
15 b6 9-11-20	b6	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b6 9-11-2014.SMS	9/11/2014 18:18
16 b7 9-11-20	b7	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b7 9-11-2014.SMS	9/11/2014 18:46
17 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\2.5ug gro icv 9-11-2014.SMS	9/11/2014 19:14
18 b8 9-11-20	b8	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b8 9-11-2014.SMS	9/11/2014 19:42
19 crtm 9-11-	crtm	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\crtm 9-11-2014.SMS	9/11/2014 20:10
20 crtmfull 9	crtmfull	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\crtmfull 9-11-2014.SMS	9/11/2014 20:38
21 b9 9-11-20	b9	h:\val\data\2014v\0914v\091114v gro crv\gro recalc\b9 9-11-2014.SMS	9/11/2014 21:06

DF 9/12/2014

9-12-14

Analyst: djf

JA 9-12-14

Calibration Curves Report

Method:	c:\varianws\methods\091114v gro.mth	Last Calibration:	9/12/2014 8:14 AM
Recalc Method:	...91114v gro.mth	Cmpd. Table Updated:	9/12/2014 8:58 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

GRO

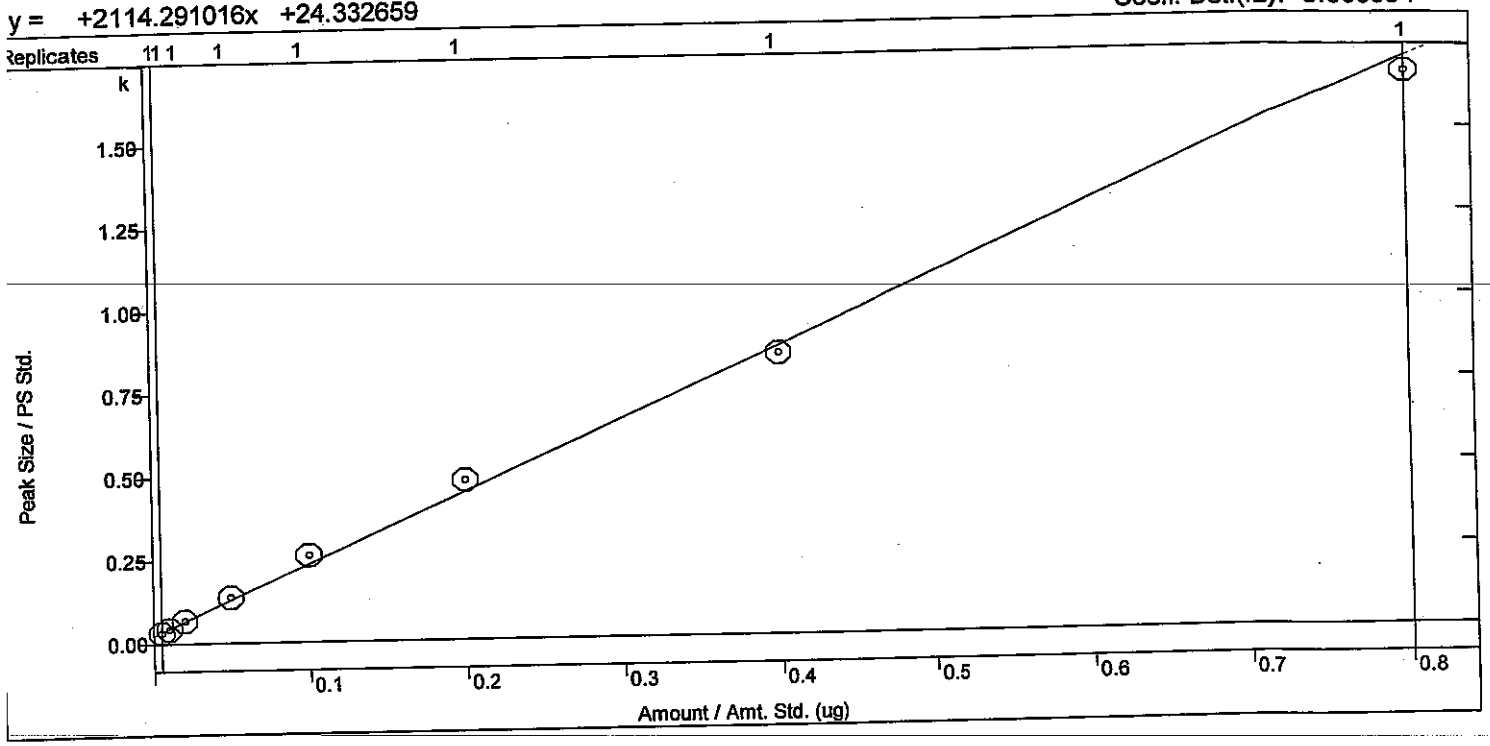
DF 9/12/2014

Curve Fit: Linear, Origin: Ignore, Weight: 1/X

y = +2114.291016x +24.332659

Resp. Fact. RSD: 45.95%

Coeff. Det.(r2): 0.998994 ✓



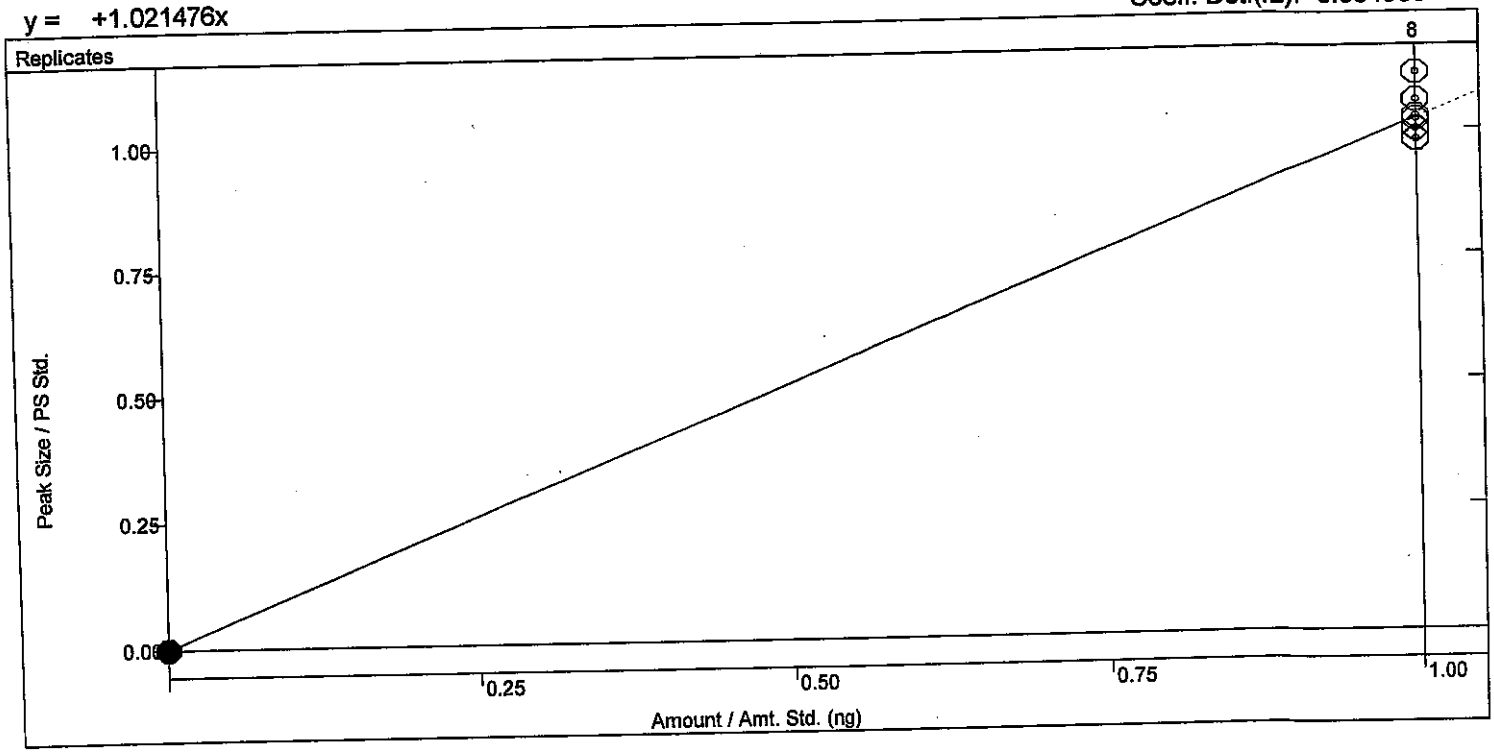
BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X

y = +1.021476x

Resp. Fact. RSD: 4.417%

Coeff. Det.(r2): 0.984865



LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0914v\091114v gro crv\gro recalc\2.5ug gro i **Acquisition Date:** 9/11/2014 19:14

Comment: v-18-2067

SampleID: 2.5ug gro icv **Analyst:** Danny Ferraro

Calibration File: H:\Val\Data\2014v\0914v\091114v gro crv\2.5ug gro cal 9-11-2014.SMS

Cal. Sample Dates: First: 9/11/2014 13:36 **Last:** 9/11/2014 13:36

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.92	ug	2.50	117 %	80 - 120	PASS
3)	BFB	48.25	ng	50.00	97 %	70 - 130	PASS

* indicates Internal Standard.

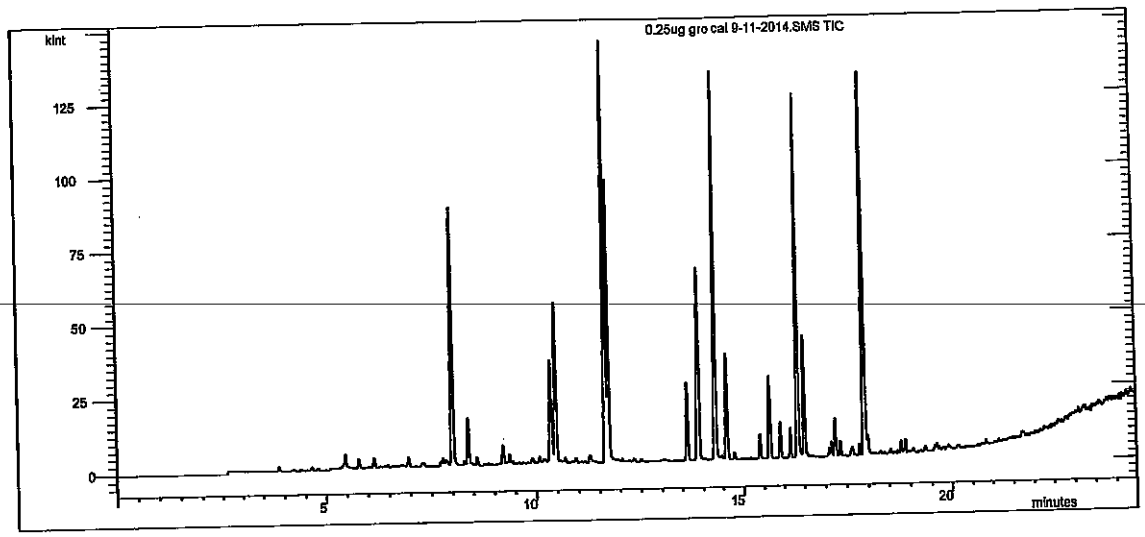
DF 9/12/2014

√ 9.14.14

Analyst: djf

8015D MOD GRO

Sample Name:	0.25ug gro cal	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\091014V 8260,624.mth	**Inj. Notes:**	v-18-2074	**Acquisition Date:**	9/11/2014 1:36:49 PM
Calculation Date:	9/12/2014 9:01:36 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1194	Identified	82387	50.000
GRO	11.000	902	Identified	2.691E6	0.197
BFB	16.340	1375	Identified	82347	48.925

****

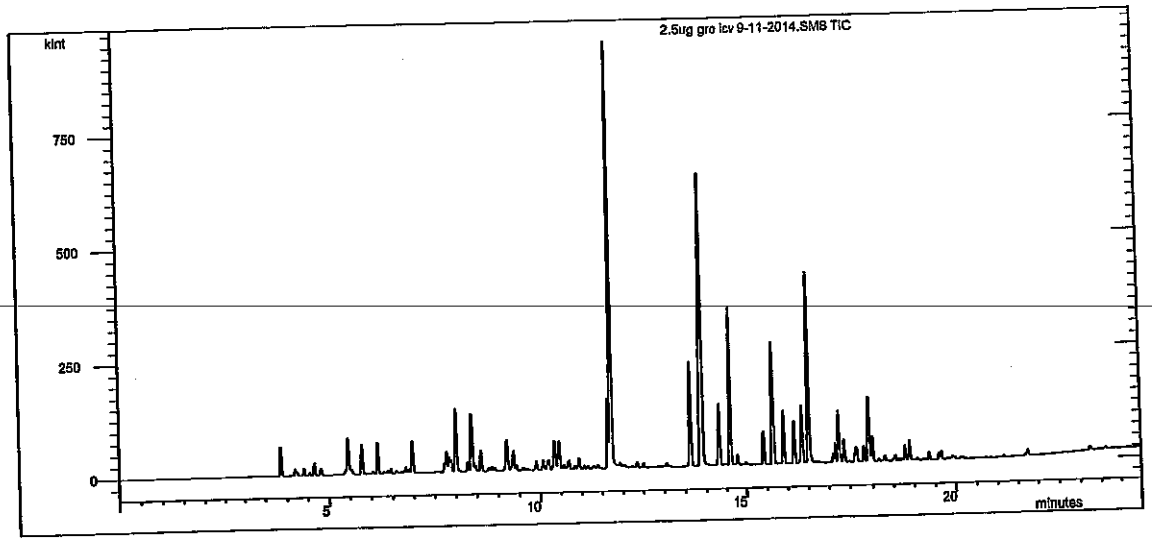
Revision Log

****

9/11/2014 2:01 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\091014V 8260,624.mth'
9/12/2014 8:13 AM: Processed as level 1 Calibration sample using method:
'C:\VarianWS\Methods\091114v GRO.mth'
9/12/2014 9:00 AM: Processed as level 1 Calibration sample using method:
'C:\VarianWS\Methods\091114v GRO.mth'
9/12/2014 9:01 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\091114v GRO.mth'

8015D MOD GRO

Sample Name:	2.5ug gro icv	**Operator Name:**	Danny Ferraro	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\091014V 8260,624.mth	**Inj. Notes:**	v-18-2067	**Acquisition Date:**	9/11/2014 7:14:39 PM
Calculation Date:	9/12/2014 9:07:59 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.316	1204	Identified	86269	50.000
GRO	11.000	906	Identified	1.277E7	2.924
BFB	16.347	1385	Identified	85041	48.252

****

Revision Log

****

9/11/2014 7:39 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\091014V 8260,624.mth'
9/12/2014 9:07 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\091114v GRO.mth'

eneric SampleList Printout - Tue Sep 09 07:33:35 2014

ampleList: C:\AgilentWS\090814m.smp

reated: Mon Sep 08 07:33:00 2014
odified: Mon Sep 08 18:24:36 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	b3	none
4	mb-15165	none tune @ 9:47
5	5ppb 5035 ccv	below
	Notes V-54-0478 @ 10:16	
6	lcs-15165	below
	Notes V-11-8073	
7	b4	none
8	b5	none
9	1409219-008amsd	below
	Notes r1 low level soil pb15137 V-11-8073 N-all	
10	1409275-002a	below
	Notes x1 low level soil pb15165	
11	1409275-002ams	below
	Notes x1 low level soil pb15165 V-11-8073	
12	1409275-002amsd	below
	Notes x1 low level soil pb15165 V-11-8073	
13	1409275-004a	below
	Notes x1 low level soil pb15165	
14	1409275-005a	below
	Notes x1 low level soil pb15165	
15	1409275-006a	below
	Notes x1 low level soil pb15165	
16	1409275-009a	below
	Notes x1 low level soil pb15165	
17	1409275-010a	below
	Notes x1 low level soil pb15165	
18	1409275-011a	below
	Notes x1 low level soil pb15165	
19	1409275-002ams	below
	Notes x1 low level soil pb15165 V-11-8073 V-all @ 4:58	
20	b6	none
21	b7	none
22		

hand calc

Loaded By: 09-8-14
1st Review By: 09-9-14
QA'd By:

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\090814m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıs\data\2014\0914m\090914m\5ppb 5035 ccv 9-8-2014.SMS Lab Sample ID: 5ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 9/8/2014 Time Analyzed: 10:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	73387	7.09	107680	13.40	42761	16.98						
UPPER LIMIT	146774	7.59	215360	13.90	85522	17.48						
LOWER LIMIT	36694	6.59	53840	12.90	21381	16.48						
EPA SAMPLE NO												
b1 9-8-201	86082	7.08	120994	13.39	37908	16.98						
b2 9-8-201	79397	7.09	120064	13.40	39246	16.98						
b3 9-8-201	72661	7.09	107761	13.40	35242	16.98						
mb-15165 9	79040	7.09	111778	13.40	36797	16.98						
lcs-15165	71549	7.09	105530	13.40	35551	16.98						
b4 9-8-201	69035	7.09	101087	13.40	33857	16.98						
b5 9-8-201	71393	7.09	105592	13.40	33229	16.98						
1409219-00	76434	7.09	117827	13.40	44337	16.98						
1409275-00	54027	7.09	75748	13.40	28940	16.98						
1409275-00	80733	7.09	115001	13.40	41822	16.98						
1409275-00	74602	7.09	113006	13.40	40407	16.98						
1409275-00	52278	7.09	80832	13.40	30037	16.99						
1409275-00	47128	7.09	66024	13.40	23460	16.99						
1409275-00	58479	7.09	86674	13.40	28455	16.99						
1409275-00	47224	7.09	72109	13.40	24135	16.99						
1409275-01	43936	7.09	62636	13.40	24310	16.99						

9/9-9-14

9/9/2014 7:34

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1409275-01	42545	7.09	59794	13.40	22092	16.99						
1409275-00	66097	7.09	103665	13.40	35055	16.98						
b6 9-8-201	71852	7.09	102723	13.40	34390	16.98						
b7 9-8-201	68036	7.09	102387	13.40	34327	16.98						

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

cg 9.9.14

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 9/8/2014 Time: 10:16

Heated Purge (Y/N): No Initial Cal. Sample Date: 9/3/2014 9/3/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0914m\090314m 5035 low crv\5ppb 5035 low crv 9-3-20

Lab File ID: c:\agilentws\data\5ppb 5035 ccv 9-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.045	0.100	5.00	4.47	10.6	30.0	PASS	PASS
Chloromethane	11.723	0.100	5.00	4.75	5.0	30.0	PASS	PASS
Vinyl chloride	13.789	0.100	5.00	5.09	-1.8	20.0	PASS	PASS
Chloroethane	2.400	0.100	5.00	5.05	-1.0	30.0	PASS	PASS
Bromomethane	1.264	0.100	5.00	3.42	31.6	30.0	FAIL	PASS
Trichlorofluoromethane	3.317	0.100	5.00	4.74	5.3	30.0	PASS	PASS
1,1-Dichloroethene	7.622	0.100	5.00	4.68	6.4	20.0	PASS	PASS
Acetone	2.095	0.100	10.00	6.47	35.3	40.0	PASS	PASS
Carbon disulfide	6.212	0.100	10.00	10.50	-5.0	40.0	PASS	PASS
Iodomethane	4.474	0.100	10.00	6.80	32.0	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.383	0.100	10.00	10.93	-9.3	30.0	PASS	PASS
Isopropyl ether	35.434	0.100	10.00	11.64	-16.4	40.0	PASS	PASS
tert-Butyl alcohol	0.601	0.100	100.00	62.36	37.6	40.0	PASS	PASS
trans-1,2-DCE	14.242	0.100	5.00	4.87	2.6	30.0	PASS	PASS
tert-Butyl ethyl ether	121.386	0.100	10.00	11.69	-16.9	40.0	PASS	PASS
Methylene Chloride	15.524	0.100	5.00	6.55	-31.1	30.0	FAIL	PASS
1,1-Dichloroethane	4.280	0.100	5.00	3.95	20.9	30.0	PASS	PASS
Vinyl acetate	16.849	0.100	10.00	13.40	-34.0	40.0	PASS	PASS
2,2-Dichloropropane	3.140	0.100	5.00	5.45	-9.0	30.0	PASS	PASS
2-Butanone	5.971	0.100	10.00	9.07	9.3	40.0	PASS	PASS
1,1,1-Trichloroethane	5.349	0.100	5.00	5.00	-0.1	30.0	PASS	PASS
1,1-Dichloropropene	7.859	0.100	5.00	4.83	3.4	30.0	PASS	PASS
tert-Amyl methyl ether	32.639	0.100	10.00	11.02	-10.2	40.0	PASS	PASS
Carbon Tetrachloride	2.549	0.100	5.00	4.99	0.1	30.0	PASS	PASS
cis-1,2-DCE	2.866	0.100	5.00	4.98	0.3	30.0	PASS	PASS
Benzene	10.142	0.100	5.00	4.94	1.3	30.0	PASS	PASS
Chloroform	5.405	0.100	5.00	4.90	2.1	20.0	PASS	PASS
Bromochloromethane	4.788	0.100	5.00	6.14	-22.7	30.0	PASS	PASS
Trichloroethene (TCE)	16.382	0.100	5.00	4.95	1.1	30.0	PASS	PASS
Dibromofluoromethane	3.306	0.100	20.00	21.23	-6.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.341	0.100	20.00	20.11	-0.5	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	71.745	0.100	5.00	5.32	-6.4	30.0	PASS	PASS
1,2-Dichloropropane	21.347	0.100	5.00	5.22	-4.3	20.0	PASS	PASS
4-Methyl-2-pentanone	4.582	0.100	10.00	9.51	4.9	40.0	PASS	PASS
Toluene-d8	1.821	0.100	20.00	20.02	-0.1	30.0	PASS	PASS

Vinyl

not quantifying data

CDG 9.9.14

Analyst: cadg

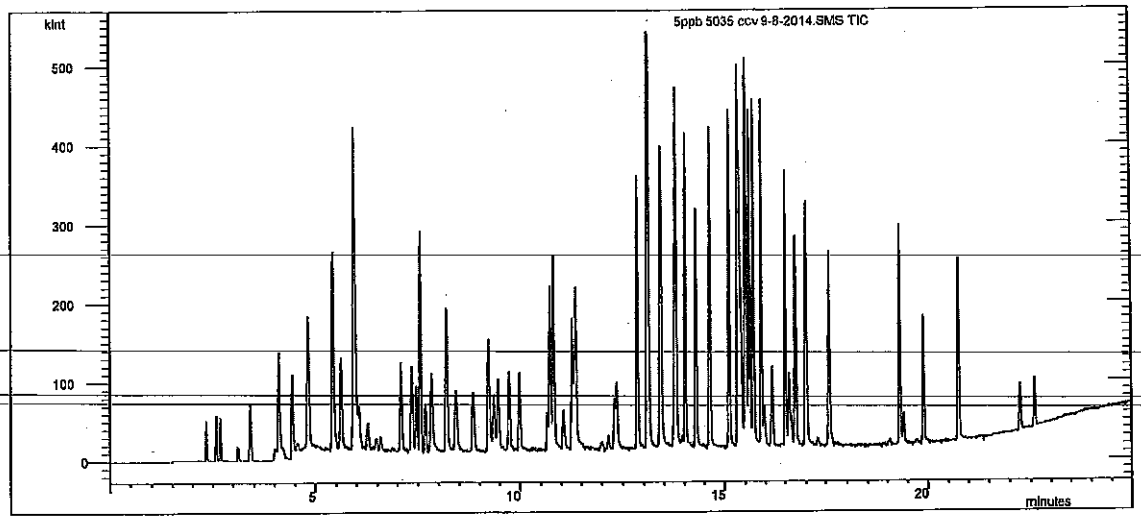
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.468	0.100	5.00	5.12	-2.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	4.975	0.100	10.00	8.83	11.7	40.0	PASS	PASS
cis-1,3-dichloropropene	17.277	0.100	5.00	5.34	-6.9	30.0	PASS	PASS
Bromodichloromethane	3.140	0.100	5.00	5.19	-3.8	30.0	PASS	PASS
2-Hexanone	10.883	0.100	10.00	8.90	11.0	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.855	0.100	5.00	4.76	4.8	30.0	PASS	PASS
Dibromomethane	5.937	0.100	5.00	5.63	-12.5	30.0	PASS	PASS
1,3-Dichloropropane	6.225	0.100	5.00	5.45	-8.9	30.0	PASS	PASS
trans-1,3-dichloropropene	3.473	0.100	5.00	5.68	-13.6	30.0	PASS	PASS
Ethylbenzene	12.089	0.100	5.00	5.06	-1.1	20.0	PASS	PASS
mp-Xylenes	10.637	0.100	10.00	10.20	-2.0	30.0	PASS	PASS
1,1,2-Trichloroethane	7.063	0.100	5.00	5.76	-15.2	30.0	PASS	PASS
Chlorobenzene	5.407	0.300	5.00	5.04	-0.7	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.870	0.100	5.00	5.13	-2.6	30.0	PASS	PASS
o-Xylene	10.986	0.100	5.00	5.11	-2.1	30.0	PASS	PASS
Dibromochloromethane	1.584	0.100	5.00	5.37	-7.4	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.690	0.100	5.00	5.47	-9.5	30.0	PASS	PASS
Isopropylbenzene	11.182	0.100	5.00	5.07	-1.5	30.0	PASS	PASS
Styrene	5.311	0.100	5.00	5.02	-0.3	30.0	PASS	PASS
n-Propylbenzene	36.927	0.100	5.00	4.76	4.8	30.0	PASS	PASS
1,3,5-Trimethylbenzene	26.966	0.100	5.00	4.87	2.6	30.0	PASS	PASS
tert-Butylbenzene	31.653	0.100	5.00	4.64	7.1	30.0	PASS	PASS
2-Chlorotoluene	9.285	0.100	5.00	4.85	3.1	30.0	PASS	PASS
4-Bromofluorobenzene	2.451	0.100	20.00	19.09	4.6	30.0	PASS	PASS
Bromobenzene	43.315	0.100	5.00	4.99	0.2	30.0	PASS	PASS
4-Chlorotoluene	63.653	0.100	5.00	4.19	16.3	30.0	PASS	PASS
sec-Butylbenzene	40.419	0.100	5.00	4.59	8.2	30.0	PASS	PASS
1,2,4-Trimethylbenzene	86.792	0.100	5.00	4.74	5.3	30.0	PASS	PASS
4-Isopropyltoluene	29.264	0.100	5.00	4.75	5.0	30.0	PASS	PASS
Bromoform	10.448	0.100	5.00	4.99	0.2	30.0	PASS	PASS
1,2,3-Trichloropropane	12.134	0.100	5.00	4.57	8.6	30.0	PASS	PASS
n-Butylbenzene	44.472	0.100	5.00	4.54	9.2	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	39.104	0.300	5.00	4.77	4.6	30.0	PASS	PASS
1,3-Dichlorobenzene	12.342	0.100	5.00	5.00	-0.1	30.0	PASS	PASS
1,4-Dichlorobenzene	11.320	0.100	5.00	4.94	1.2	30.0	PASS	PASS
1,2-Dichlorobenzene	11.579	0.100	5.00	4.90	2.1	30.0	PASS	PASS
Hexachlorobutadiene	30.255	0.100	5.00	4.79	4.2	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	8.329	0.100	5.00	4.18	16.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	27.400	0.100	5.00	4.51	9.8	30.0	PASS	PASS
Naphthalene	7.473	0.100	5.00	4.00	20.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	22.919	0.100	5.00	4.40	12.0	30.0	PASS	PASS
2-Methylnaphthalene	11.555	0.100	5.00	4.35	12.9	40.0	PASS	PASS
1-Methylnaphthalene	15.993	0.100	5.00	4.31	13.8	40.0	PASS	PASS

9.9.14

Analyst: cadg

8260B/624 Report

Sample Name:	5ppb 5035 ccv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\090314m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0478	**Acquisition Date:**	9/8/2014 10:16:41 AM
Calculation Date:	9/8/2014 10:41:41 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.092	698	Identified	73387	20.000
Benzene-d5-, chloro-	13.399	1378	Identified	107680	20.000
1,4-Dichlorobenzene-d4	16.985	1760	Identified	42761	20.000
Dichlorodifluoromethane	2.337	183	Identified	37525	4.468
Chloromethane	2.579	209	Identified	215080	4.752
Vinyl chloride	2.692	221	Identified	252988	5.091
Chloroethane	3.120	268	Identified	44031	5.052
Bromomethane	3.122	268	Identified	23189	3.422
Trichlorofluoromethane	3.411	300	Identified	60857	4.737
1,1-Dichloroethene	4.114	377	Identified	139833	4.681
Acetone	4.292	396	Identified	76858	6.467
Carbon disulfide	4.429	410	Identified	227951	10.503
Iodomethane	4.555	424	Identified	164172	6.798
Methyl tert-butyl ether (MTBE)	4.826	453	Identified	270910	10.928
Isopropyl ether	5.433	519	Identified	1.300E6	11.638
tert-Butyl alcohol	5.492	525	Identified	220693	62.363
trans-1,2-DCE	5.625	539	Identified	261304	4.870
tert-Butyl ethyl ether	5.943	574	Identified	4.454E6	11.693
Methylene Chloride	5.974	577	Identified	284811	6.555
1,1-Dichloroethane	6.065	587	Identified	78520	3.955
Vinyl acetate	6.270	609	Identified	618265	13.397
2,2-Dichloropropane	6.478	632	Identified	57608	5.448
2-Butanone	6.583	643	Identified	219113	9.070
1,1,1-Trichloroethane	7.355	726	Identified	98136	5.005

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.468	738	Identified	144192	4.830
tert-Amyl methyl ether	7.565	748	Identified	1.198E6	11.019
Carbon Tetrachloride	7.686	761	Identified	46761	4.995
cis-1,2-DCE	7.832	777	Identified	52585	4.984
Benzene	8.200	816	Identified	186070	4.937
Chloroform	8.426	840	Identified	99168	4.895
Bromochloromethane	8.844	886	Identified	87837	6.136
Trichloroethene (TCE)	9.214	926	Identified	300561	4.945
Dibromofluoromethane	9.239	929	Identified	242588	21.229
1,2-Dichloroethane-d4	9.353	941	Identified	905706	20.107
1,2-Dichloroethane (EDC)	9.459	952	Identified	1.316E6	5.322
1,2-Dichloropropane	9.738	982	Identified	391643	5.217
4-Methyl-2-pentanone	9.988	1009	Identified	246689	9.513
Toluene-d8	10.736	1091	Identified	196087	20.019
Toluene	10.820	1100	Identified	281792	5.121
2-Chloroethyl vinyl ether	11.053	1125	Identified	267850	8.832
cis-1,3-dichloropropene	11.266	1148	Identified	465094	5.344
Bromodichloromethane	11.275	1149	Identified	84516	5.190
2-Hexanone	11.324	1154	Identified	585927	8.900
Tetrachloroethene (PCE)	11.358	1157	Identified	76862	4.762
Dibromomethane	11.363	1158	Identified	159832	5.626
1,3-Dichloropropane	12.307	1260	Identified	167588	5.446
trans-1,3-dichloropropene	12.360	1265	Identified	93487	5.679
Ethylbenzene	12.846	1319	Identified	325446	5.056
mp-Xylenes	13.098	1346	Identified	572713	10.201
1,1,2-Trichloroethane	13.090	1345	Identified	190140	5.762
Chlorobenzene	13.423	1380	Identified	145552	5.036
1,2-Dibromoethane (EDB)	13.405	1378	Identified	50350	5.131
o-Xylene	13.769	1417	Identified	295745	5.106
Dibromochloromethane	13.736	1414	Identified	42649	5.369
1,1,1,2-Tetrachloroethane	13.787	1419	Identified	72428	5.474
Isopropylbenzene	14.009	1442	Identified	301024	5.073
Styrene	14.277	1471	Identified	142962	5.015
n-Propylbenzene	14.632	1509	Identified	394756	4.760
1,3,5-Trimethylbenzene	15.112	1561	Identified	288275	4.870
tert-Butylbenzene	15.321	1584	Identified	338383	4.644
2-Chlorotoluene	15.359	1587	Failed	99257	4.845
4-Bromofluorobenzene	15.407	1592	Identified	104826	19.085
Bromobenzene	15.503	1603	Identified	463045	4.991
4-Chlorotoluene	15.520	1604	Identified	680465	4.187
sec-Butylbenzene	15.600	1613	Identified	432091	4.589
1,2,4-Trimethylbenzene	15.690	1622	Identified	927829	4.736
4-Isopropyltoluene	15.887	1643	Identified	312834	4.749
Bromoform	15.965	1651	Identified	111696	4.989
1,2,3-Trichloropropane	16.172	1673	Identified	129719	4.569
n-Butylbenzene	16.501	1709	Identified	475412	4.540
1,1,2,2-Tetrachloroethane	16.596	1719	Identified	418033	4.770
1,3-Dichlorobenzene	16.749	1735	Identified	131940	5.004
1,4-Dichlorobenzene	17.010	1763	Identified	121019	4.940
1,2-Dichlorobenzene	17.592	1825	Identified	123784	4.897

58

9-9-14

Operator: Christina Gallegos Inj. Notes: V-54-0478 5ppb 5035 ccv 9-8-2014.SMS

9/8/2014 10:42

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.307	2012	Identified	323434	4.790
1,2-Dibromo-3-chloropropane	19.398	2021	Identified	89036	4.179
1,2,4-Trichlorobenzene	19.890	2074	Identified	292912	4.509
Naphthalene	20.744	2167	Identified	79892	3.999
1,2,3-Trichlorobenzene	20.760	2168	Identified	245005	4.399
2-Methylnaphthalene	22.245	2324	Identified	123521	4.354
1-Methylnaphthalene	22.599	2361	Identified	170966	4.309

****
Revision Log
****

9/8/2014 10:41 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

eric SampleList Printout - Thu Sep 04 07:36:23 2014

pleList: C:\AgilentWS\090314m.smp

ated: Wed Sep 03 08:15:41 2014
ified: Wed Sep 03 20:12:59 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0050	
2	b2	none
3	rt check	below
	Notes V-54-0478	
4	b3	none
5	b4	none
6	b5	none
7	b6	none
8	b7	none June @12:32
9		
10	0.4ppb 5035 low crv	below
	Notes V-54-0478	
11	1ppb 5035 low crv	below
	Notes V-54-0478	
12	2ppb 5035 low crv	below
	Notes V-54-0478	
13	3ppb 5035 low crv	below
	Notes V-54-0478	
14	5ppb 5035 low crv	below
	Notes V-54-0478	
15	10ppb 5035 low crv	below
	Notes V-54-0478	
16	20ppb 5035 low crv	below
	Notes V-54-0478	
17	50ppb 5035 low crv	below
	Notes V-54-0478	
18	b8	none
19	100ppb 5035 low crv	below
	Notes V-54-0478	
20	b9	none
21	b10	none
22	5ppb 5035 low icv	below @6:46
	Notes V-54-0480	
23	b11	none
24	b12	none
25		

Loaded By: 9-3-14
1st Review By: 9-4-14
QA'd By: 9-8-14

ectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

ate and update a new RecalcList: c:\agilentws\090314m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 9-3-14

Calibration Name: 0903M_8260-5035Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☐	☐	
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☑	☐	UQL= 50ppb
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UQL= 40 ppb
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☑	☐	UQL= 1000
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UQL= 100 ppb
1,1-Dichloroethane	☐	☐	☑	☐	UQL= 5000
Methylene Chloride	☐	Low ☑	☑	☐	~~ask question about this~~
Vinyl acetate	☐	High ☑	☑	☐	PQL= 40ppb (2) on adjacent instrument
2,2-Dichloropropane	☐	High ☑	☑	☐	UQL= 5 ppb, rerun on a different instrument
2-Butanone	☐	☐	☑	☐	PQL= 2000
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☑	☐	UQL= 40 ppb
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☑	☐	UQL= 80 ppb
2-Hexanone	☐	☐	☑	☐	PQL= 2 ppb
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	LRL = 20 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☑	☐	LRL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: CG 9-4-14

QA: RA 9-8-14

Additional Comments: PQLs updated & verified CG 9-4-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ing\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS Lab Sample ID: 5ppb 5035 low crv

Instrument ID: Mercury Date Analyzed: 9/3/2014 Time Analyzed: 14:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	52652	7.09	74456	13.40	27159	16.99						
UPPER LIMIT	105304	7.59	148912	13.90	54318	17.49						
LOWER LIMIT	26326	6.59	37228	12.90	13580	16.49						
EPA SAMPLE NO												
b7 9-3-201	71382	7.08	99458	13.40	29907	16.98						
0.4ppb 503	62139	7.09	89513	13.40	30671	16.98						
1ppb 5035	61341	7.09	90104	13.40	31887	16.99						
2ppb 5035	65557	7.10	98399	13.40	35150	16.99						
3ppb 5035	57934	7.09	86901	13.40	32406	16.99						
10ppb 5035	61849	7.10	87532	13.40	31607	16.99						
20ppb 5035	66768	7.10	99679	13.40	36421	16.99						
50ppb 5035	64785	7.10	100160	13.40	34898	16.99						
b8 9-3-201	60099	7.10	84835	13.40	29057	16.99						
100ppb 503	55979	7.09	82032	13.40	31122	16.99						
b9 9-3-201	63044	7.09	90962	13.40	32759	16.99						
b10 9-3-20	60522	7.09	87341	13.40	30100	16.99						
5ppb 5035	64075	7.09	88987	13.40	33984	16.98						
b11 9-3-20	61835	7.09	88663	13.40	29821	16.99						
b12 9-3-20	57081	7.09	79492	13.40	28720	16.99						

9-4-14

JA 9-5-14

9/4/2014 12:18

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

9/4/2014 12:18
Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 9-3-2014.sms Injection Date: 9/3/2014

Instrument ID: Mercury Injection Time: 12:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	22.7		
75	30-60% of m/z 95	50.0		
95	base peak	100.0		
96	5-9% of m/z 95	7.7		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	63.6		
175	5-9% of m/z 174	4.7	(7.4)	174
176	>95% but <101% of m/z 174	63.0	(99.1)	174
177	5-9% of m/z 176	4.4	(7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 9-3-201	b7	c:\agilentws\data\pending\090414m 5035 low crv\b7 9-3-2014.SMS	9/3/2014 12:32
3 0.4ppb 503	0.4ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\0.4ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:01
4 1ppb 5035	1ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\1ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:30
5 2ppb 5035	2ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\2ppb 5035 low crv 9-3-2014.SMS	9/3/2014 13:59
6 3ppb 5035	3ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\3ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:27
7 5ppb 5035	5ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS	9/3/2014 14:56
8 10ppb 5035	10ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\10ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:25
9 20ppb 5035	20ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\20ppb 5035 low crv 9-3-2014.SMS	9/3/2014 15:54
10 50ppb 5035	50ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\50ppb 5035 low crv 9-3-2014.SMS	9/3/2014 16:23
11 b8 9-3-201	b8	c:\agilentws\data\pending\090414m 5035 low crv\b8 9-3-2014.SMS	9/3/2014 16:51
12 100ppb 503	100ppb 5035 low crv	c:\agilentws\data\pending\090414m 5035 low crv\100ppb 5035 low crv 9-3-2014.SMS	9/3/2014 17:20
13 b9 9-3-201	b9	c:\agilentws\data\pending\090414m 5035 low crv\b9 9-3-2014.SMS	9/3/2014 17:49

Analyst: cadg

JRA 9-8-14

cdg 9-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b10 9-3-20	b10	c:\agilentws\data\pending\090414m 5035 low crv\b10 9-3-2014.SMS	9/3/2014 18:18
15 5ppb 5035	5ppb 5035 low icv	c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 low icv 9-3-2014.SMS	9/3/2014 18:46
16 b11 9-3-20	b11	c:\agilentws\data\pending\090414m 5035 low crv\b11 9-3-2014.SMS	9/3/2014 19:15
17 b12 9-3-20	b12	c:\agilentws\data\pending\090414m 5035 low crv\b12 9-3-2014.SMS	9/3/2014 19:44

✓ 9-8-14 cg 9-4-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 9/3/2014 9/3/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 17:20 17:20

GC Column: DB-VRX ID: 250 (mm)

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 9/3/2014 17:20	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	2.792	2.704	2.555	2.519	2.693	2.373	2.329	2.124	0.9996	2.467	10.1	PASS	PASS
2.115													
Chloromethane	10.581	9.350	10.983	11.330	12.473	12.799	12.870	12.474	0.9999	11.739	10.6	PASS	PASS
12.790													
Vinyl chloride	8.784	10.310	12.330	14.414	14.507	14.357	14.174	12.969	0.9995	12.808	15.8	PASS	PASS
13.422													
Chloroethane	1.580	1.482	1.528	1.833	2.191	2.680	2.666	2.571	0.9992	2.112	24.1	PASS	PASS
2.476													

Analyst: cadg

9-8-14

cdg-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	3.244	1.671	1.341	1.594	1.638	2.063	3.343	4.522	0.9986	2.427	47.0	PASS	PASS
Trichlorofluoromethane	3.436	3.374	3.438	3.516	3.856	3.335	3.434	3.370	0.9990	3.484	4.6	PASS	PASS
3.599													
1,1-Dichloroethene	7.892	8.133	8.126	8.295	8.575	7.792	7.996	7.821	0.9990	8.111	3.3	PASS	PASS
8.370													
Acetone	4.906	2.902	2.773	2.716	2.357	2.415	3.132	3.350	0.9981	3.129	25.0	PASS	PASS
3.609													
Carbon disulfide	7.278	6.584	6.441	6.603	6.905	6.440	6.333	5.836	0.9973	6.415	8.9	PASS	PASS
5.314													
Iodomethane	4.126	3.107	3.395	4.237	4.568	5.824	7.922	8.519	0.9966	5.212	39.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.370	7.269	7.540	7.605	7.326	6.665	6.391		0.9986	7.167	6.4	PASS	PASS
Isopropyl ether	31.322	34.552	35.665	35.788	34.851	34.051	34.769	30.072	0.9956	33.126	9.0	PASS	PASS
27.063													
tert-Butyl alcohol	1.137	1.106	0.974	0.932	0.965				0.9983	1.023	9.0	PASS	PASS
trans-1,2-DCE	15.093	15.157	15.310	15.467	15.835	14.910	14.981	14.039	0.9998	15.014	3.7	PASS	PASS
14.335													
tert-Butyl ethyl ether	113.924	118.465	122.392	118.860	114.053	111.098	113.526	92.034	0.9918	113.044	8.2	PASS	PASS
Methylene Chloride					12.985	10.172	9.155	7.974	0.9996	9.554	22.9	PASS	PASS
7.484													
1,1-Dichloroethane	2.610	2.738	3.206	3.449	4.137	4.728	5.861	6.870	0.9954	4.200	36.4	PASS	PASS

Analyst: cadg

9-8-14

9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate			9.612	9.550	10.646	12.523	14.786	14.837	0.9985	12.273	19.1	PASS	PASS
13.959													
2,2-Dichloropropane	2.997	2.729	2.665	2.637	2.958				0.9939	2.797	6.0	PASS	PASS
2-Butanone		5.614	7.554	6.215	7.262	6.488	6.690	6.468	0.9999	6.599	9.1	PASS	PASS
6.505													
1,1,1-Trichloroethane	5.722	5.312	5.433	5.435	5.929	5.230	5.423	5.341	0.9998	5.448	4.3	PASS	PASS
5.212													
1,1-Dichloropropene	8.233	8.360	8.155	8.277	8.580	7.854	8.265	8.042	1.0000	8.206	2.5	PASS	PASS
8.087													
tert-Amyl methyl ether	29.899	31.213	31.645	32.207	31.095	30.633	31.551	27.752	0.9972	30.749	4.5	PASS	PASS
Carbon Tetrachloride	2.485	2.511	2.474	2.643	2.825	2.515	2.635	2.558	0.9998	2.572	4.4	PASS	PASS
2.502													
cis-1,2-DCE	2.756	2.841	2.917	2.917	2.994	2.813	2.967	2.830	0.9999	2.879	2.7	PASS	PASS
2.875													
Benzene	10.466	10.463	10.372	10.679	10.993	10.206	10.459	9.994	0.9999	10.424	2.8	PASS	PASS
10.185													
Chloroform	5.007	5.042	5.459	5.312	5.544	5.470	5.794	5.497	0.9999	5.414	4.7	PASS	PASS
5.597													
Bromochloromethane	4.687	4.752	4.845	4.534	4.340	3.897	3.954	3.800	0.9995	4.272	10.7	PASS	PASS
3.641													
Trichloroethene (TCE)	17.850	16.797	16.874	17.052	18.019	16.205	16.737	16.185	0.9999	16.896	3.9	PASS	PASS
16.345													
Dibromofluoromethane	3.021	2.934	3.190	3.135	3.185	3.137	3.227	3.125	0.9924	3.114	2.9	PASS	PASS
3.074													

Analyst: cadg

9-8-14

cg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,2-Dichloroethane-d4	12.853	12.438	12.827	12.826	12.963	11.803	11.935	11.613	0.9761	12.276	5.2	PASS	PASS
11.225													
1,2-Dichloroethane (EDC)	66.785	69.782	71.229	71.860	70.983	68.896	71.975	68.359	0.9987	69.309	3.8	PASS	PASS
63.907													
1,2-Dichloropropane	22.334	21.052	22.279	22.708	21.294	20.544	21.452	20.131	0.9996	21.264	5.0	PASS	PASS
19.585													
4-Methyl-2-pentanone	4.355	4.731	4.500	4.758	5.374	4.912	4.753	4.678	0.9999	4.758	5.9	PASS	PASS
4.761													
Toluene-d8	1.888	1.803	1.784	1.799	1.903	1.841	1.771	1.764	0.9935	1.819	2.7	PASS	PASS
1.821													
Toluene	11.587	10.924	10.763	10.644	11.676	10.756	10.314	9.528	0.9993	10.686	6.5	PASS	PASS
9.984													
2-Chloroethyl vinyl ether	4.512	5.295	4.668	5.460	5.481	5.721	5.881		0.9996	5.288	9.7	PASS	PASS
cis-1,3-dichloropropene	14.297	13.672	14.918	15.146	16.310	16.872	17.153	16.559	0.9997	15.677	7.7	PASS	PASS
16.169													
Bromodichloromethane	3.156	2.878	2.951	3.108	3.210	3.230	3.228	2.943	0.9996	3.073	4.6	PASS	PASS
2.953													
2-Hexanone		12.377	11.269	12.314	13.403	11.837	11.940	11.779	0.9988	12.201	5.3	PASS	PASS
12.687													
Tetrachloroethene (PCE)	3.288	3.128	2.964	3.025	3.318	2.951	2.986	2.851	0.9994	3.057	5.1	PASS	PASS
3.002													
Dibromomethane	5.580	5.685	5.464	5.737	5.631	5.560	4.923		0.9957	5.511	5.0	PASS	PASS
1,3-Dichloropropane	5.604	5.072	6.118	6.096	6.490	6.178	6.152	5.662	0.9992	5.868	7.6	PASS	PASS
5.441													

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5ppb 5035 low crv 9-3-2014.SMS

Analyst: cadg

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cdg 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.164	2.261	2.705	2.804	3.025	3.270	3.385	3.274	0.9980	2.878	15.2	PASS	PASS
3.017													
Ethylbenzene	13.293	12.615	12.289	12.288	13.721	12.055	11.893	11.304	0.9995	12.363	6.1	PASS	PASS
11.806													
mp-Xylenes	11.863	10.945	10.688	10.714	11.686	10.687	10.389	9.668	0.9988	10.781	6.2	PASS	PASS
10.394													
1,1,2-Trichloroethane	6.801	6.904	7.218	6.990	7.183	6.945	6.697	5.977	0.9974	6.692	8.6	PASS	PASS
5.509													
Chlorobenzene	5.797	5.374	5.374	5.380	5.786	5.419	5.520	5.234	0.9999	5.464	3.7	PASS	PASS
5.292													
1,2-Dibromoethane (EDB)	1.633	1.716	1.780	1.777	1.876	1.859	1.816		0.9997	1.779	4.7	PASS	PASS
o-Xylene	11.579	11.077	11.260	11.397	11.933	11.254	10.902	10.136	0.9995	11.124	4.8	PASS	PASS
10.581													
Dibromochloromethane	1.541	1.527	1.557	1.596	1.584	1.563	1.550	1.436	0.9997	1.530	4.1	PASS	PASS
1.416													
1,1,1,2-Tetrachloroethane	2.564	2.611	2.567	2.633	2.738	2.585	2.636	2.436	0.9990	2.565	4.8	PASS	PASS
2.314													
Isopropylbenzene	11.898	11.747	11.112	11.458	12.598	11.378	11.057	10.218	0.9988	11.381	5.9	PASS	PASS
10.960													
Styrene	5.086	5.081	5.244	5.509	5.616	5.324	5.391	5.012	0.9989	5.295	3.9	PASS	PASS
5.395													
n-Propylbenzene	41.896	41.911	39.761	39.083	44.262	39.414	38.748	37.338	0.9999	40.032	5.6	PASS	PASS
37.879													
1,3,5-Trimethylbenzene	31.400	29.452	28.656	27.992	31.376	28.943	27.065	26.463	0.9998	28.714	6.3	PASS	PASS
27.079													

Analyst: cadg

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cag 9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
tert-Butylbenzene	37.345	38.501	35.839	35.386	39.030	35.194	33.232	33.114	0.9999	35.590	6.6	PASS	PASS
32.671													
2-Chlorotoluene	10.874	10.965	9.984	9.938	10.831	10.011	9.785	9.446	0.9993	10.090	6.8	PASS	PASS
8.976													
4-Bromofluorobenzene	2.682	2.648	2.547	2.412	2.535	2.586	2.538	2.633	0.9914	2.569	3.1	PASS	PASS
2.539													
Bromobenzene	51.961	48.246	46.930	44.776	48.054	45.185	44.475	40.231	0.9982	46.232	7.4	PASS	PASS
4-Chlorotoluene	70.489	69.756	68.776	68.910	75.716	71.147	73.168	77.117	0.9993	72.898	5.8	PASS	PASS
81.002													
sec-Butylbenzene	44.162	46.326	43.680	45.252	50.204	44.118	42.860	42.743	0.9998	44.789	5.2	PASS	PASS
43.759													
1,2,4-Trimethylbenzene	91.514	95.289	89.884	93.837	104.343	94.689	90.043	89.158	0.9999	93.256	5.1	PASS	PASS
90.546													
4-Isopropyltoluene	29.169	32.627	31.282	31.073	36.941	32.230	31.068	30.375	0.9998	31.608	7.2	PASS	PASS
29.707													
Bromoform	10.683	10.739	10.536	9.830	10.927	10.717	10.980	10.876	0.9984	10.590	3.8	PASS	PASS
10.024													
1,2,3-Trichloropropane	14.006	13.190	13.218	12.596	14.218	13.575	13.229	13.258	1.0000	13.380	3.6	PASS	PASS
13.131													
n-Butylbenzene	34.071	43.146	44.814	47.840	57.336	50.678	49.828	50.032	0.9999	47.478	13.5	PASS	PASS
49.553													
1,1,2,2-Tetrachloroethane	41.646	39.732	41.087	40.367	44.586	42.303	41.781	41.744	0.9994	41.440	3.6	PASS	PASS
39.717													
1,3-Dichlorobenzene	13.158	13.226	12.806	12.553	13.874	12.935	12.403	12.359	0.9994	12.783	4.8	PASS	PASS
11.734													

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Analyst: cadg

9-8-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,4-Dichlorobenzene	10.744	11.155	11.211	11.061	13.265	11.712	11.686	11.778	0.9992	11.524	6.4	PASS	PASS
11.101													
1,2-Dichlorobenzene	11.602	12.356	12.004	11.630	13.114	12.205	12.457	11.682	0.9997	12.055	4.4	PASS	PASS
11.444													
Hexachlorobutadiene	34.181	35.944	31.909	33.374	37.539	32.617	30.456	29.395	0.9992	32.940	8.0	PASS	PASS
31.049													
1,2-Dibromo-3-chloropropane	8.613	9.082	8.767	9.164	10.962	10.089	9.958	10.162	0.9999	9.671	8.2	PASS	PASS
10.244													
1,2,4-Trichlorobenzene	16.353	18.662	22.700	25.676	32.043	30.610	33.015	32.724	0.9999	27.156	24.1	PASS	PASS
32.619													
Naphthalene	4.703	5.487	6.444	7.544	9.833	9.953	11.492	12.139	0.9999	8.984	34.1	PASS	PASS
13.258													
1,2,3-Trichlorobenzene	14.075	15.820	18.594	22.079	28.857	27.237	29.682	28.426	0.9992	23.552	25.7	PASS	PASS
27.200													
2-Methylnaphthalene	3.928	5.421	7.663	9.159	12.972	14.218	17.446	19.283	0.9998	12.304	49.6	PASS	PASS
20.642													
1-Methylnaphthalene	6.669	8.399	11.513	12.735	17.945	20.537	23.724	25.864	0.9999	17.249	45.1	PASS	PASS
27.857													
										Average %RSD	10.2		

/ 9-9-14

cdg 9.8.14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\agilentws\data\pending\090414m 5035 low crv\5ppb 5035 lo **Acquisition Date:** 9/3/2014 18:46

Comment: V-54-0480

SampleID: 5ppb 5035 low icv **Analyst:** Rene Aguilera

Calibration File: C:\AgilentWS\data\pending\090414m 5035 low crv\5ppb 5035 low crv 9-3-2014.SMS

Cal. Sample Dates: First: 9/3/2014 17:20 **Last:** 9/3/2014 17:20

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	6.12	ppb	5.00	122 %	70 - 130	PASS
2)	Chloromethane	5.14	ppb	5.00	103 %	70 - 130	PASS
3)	Vinyl chloride	5.53	ppb	5.00	111 %	80 - 120	PASS
4)	Chloroethane	5.16	ppb	5.00	103 %	70 - 130	PASS
5)	Bromomethane	5.92	ppb	5.00	118 %	70 - 130	PASS
6)	Trichlorofluoromethane	4.49	ppb	5.00	90 %	70 - 130	PASS
7)	1,1-Dichloroethene	4.65	ppb	5.00	93 %	80 - 140	PASS
8)	Acetone	9.02	ppb	10.00	90 %	60 - 140	PASS
9)	Carbon disulfide	11.64	ppb	10.00	116 %	60 - 140	PASS
10)	Iodomethane	6.79	ppb	10.00	68 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	10.77	ppb	10.00	108 %	70 - 130	PASS
12)	Isopropyl ether	11.56	ppb	10.00	116 %	60 - 140	PASS
13)	tert-Butyl alcohol	95.41	ppb	100.00	95 %	60 - 140	PASS
14)	trans-1,2-DCE	4.94	ppb	5.00	99 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	11.13	ppb	10.00	111 %	60 - 140	PASS
16)	Methylene Chloride	2.75	ppb	5.00	55 %	70 - 130	FAIL
17)	1,1-Dichloroethane	3.53	ppb	5.00	71 %	70 - 130	PASS
18)	Vinyl acetate	16.68	ppb	10.00	167 %	60 - 140	FAIL
19)	2,2-Dichloropropane	6.59	ppb	5.00	132 %	70 - 130	FAIL
20)	2-Butanone	11.47	ppb	10.00	115 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	5.05	ppb	5.00	101 %	70 - 130	PASS
23)	1,1-Dichloropropene	4.78	ppb	5.00	96 %	70 - 130	PASS
24)	tert-Amyl methyl ether	10.77	ppb	10.00	108 %	60 - 140	PASS
25)	Carbon Tetrachloride	5.02	ppb	5.00	100 %	70 - 130	PASS
26)	cis-1,2-DCE	4.84	ppb	5.00	97 %	70 - 130	PASS
27)	Benzene	4.93	ppb	5.00	99 %	70 - 130	PASS
28)	Chloroform	4.82	ppb	5.00	96 %	80 - 120	PASS
29)	Bromochloromethane	5.39	ppb	5.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	5.06	ppb	5.00	101 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	5.00	ppb	5.00	100 %	70 - 130	PASS
34)	1,2-Dichloropropane	5.13	ppb	5.00	103 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	11.32	ppb	10.00	113 %	60 - 140	PASS
37)	Toluene	5.39	ppb	5.00	108 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	10.78	ppb	10.00	108 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	4.50	ppb	5.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	5.38	ppb	5.00	108 %	70 - 130	PASS
41)	2-Hexanone	11.41	ppb	10.00	114 %	60 - 140	PASS

M 9-9-14
Passes PAL evaluation
reruns on a different instrument
cdg 9-4-14
1 PA 9-8-14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	5.39	ppb	5.00	108 %	70 - 130	PASS
43)	Dibromomethane	5.34	ppb	5.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	5.42	ppb	5.00	108 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	4.82	ppb	5.00	96 %	70 - 130	PASS
46)	Ethylbenzene	5.47	ppb	5.00	109 %	80 - 120	PASS
47)	mp-Xylenes	10.73	ppb	10.00	107 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	5.83	ppb	5.00	117 %	70 - 130	PASS
50)	Chlorobenzene	5.22	ppb	5.00	104 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	4.82	ppb	5.00	96 %	70 - 130	PASS
52)	o-Xylene	5.44	ppb	5.00	109 %	70 - 130	PASS
53)	Dibromochloromethane	5.63	ppb	5.00	113 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	5.50	ppb	5.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	5.45	ppb	5.00	109 %	70 - 130	PASS
56)	Styrene	5.28	ppb	5.00	106 %	70 - 130	PASS
57)	n-Propylbenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	5.07	ppb	5.00	101 %	70 - 130	PASS
59)	tert-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
60)	2-Chlorotoluene	5.17	ppb	5.00	103 %	70 - 130	PASS
62)	Bromobenzene	5.13	ppb	5.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	4.57	ppb	5.00	91 %	70 - 130	PASS
64)	sec-Butylbenzene	5.10	ppb	5.00	102 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	5.02	ppb	5.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	5.45	ppb	5.00	109 %	70 - 130	PASS
67)	Bromoform	4.93	ppb	5.00	99 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	5.10	ppb	5.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	4.97	ppb	5.00	99 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	5.15	ppb	5.00	103 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	5.01	ppb	5.00	100 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	5.05	ppb	5.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	4.95	ppb	5.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	5.28	ppb	5.00	106 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	4.96	ppb	5.00	99 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	4.69	ppb	5.00	94 %	70 - 130	PASS
78)	Naphthalene	4.55	ppb	5.00	91 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	4.75	ppb	5.00	95 %	70 - 130	PASS
80)	2-Methylnaphthalene	5.93	ppb	5.00	119 %	60 - 140	PASS
81)	1-Methylnaphthalene	5.61	ppb	5.00	112 %	60 - 140	PASS

* indicates Internal Standard.

cdg 9-4-14

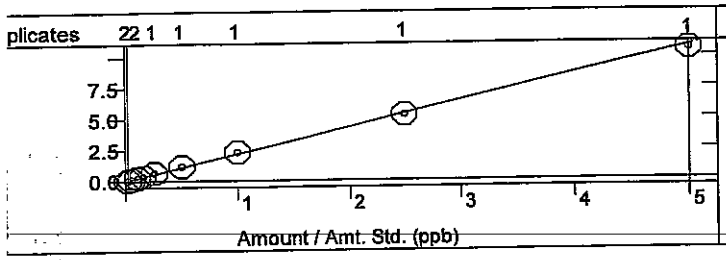
✓ 9-8-14

Analyst: cadg

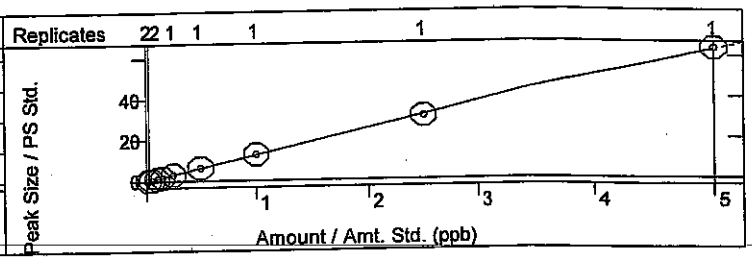
alibration Curves Report

ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
ecalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ample List:	N/A	Method Modified:	9/4/2014 11:24 AM
equence:	N/A	Detector:	200-MS Mass Spec
S Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

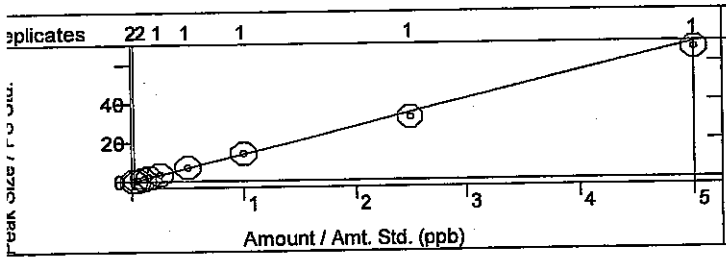
ichlorodifluoromethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.06%, Coeff. Det.(r2): 0.999617
= +2.1559x +0.0297



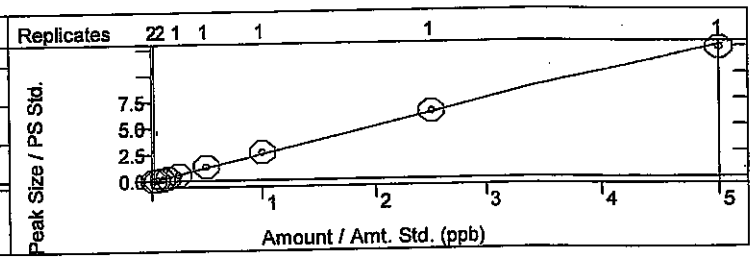
Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.59%, Coeff. Det.(r2): 0.999858
y = +12.7330x -0.0949



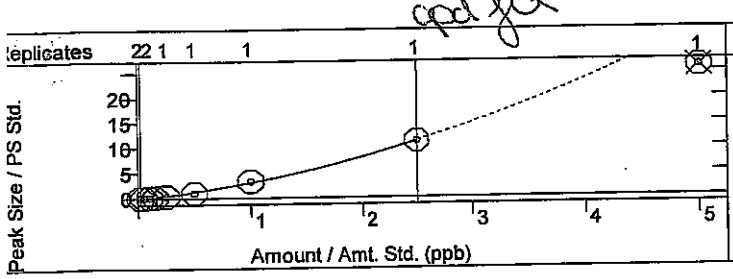
inyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/nX2
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.999489
= +13.9854x -0.1125



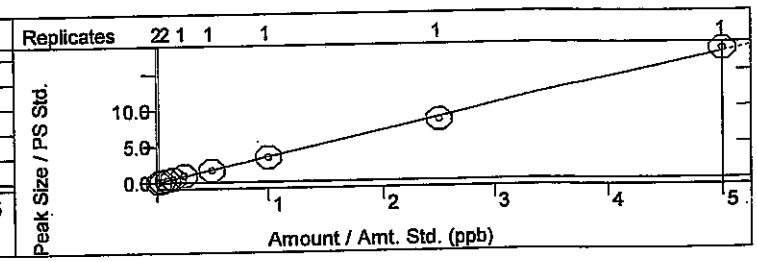
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.13%, Coeff. Det.(r2): 0.999213
y = +2.5349x -0.0404



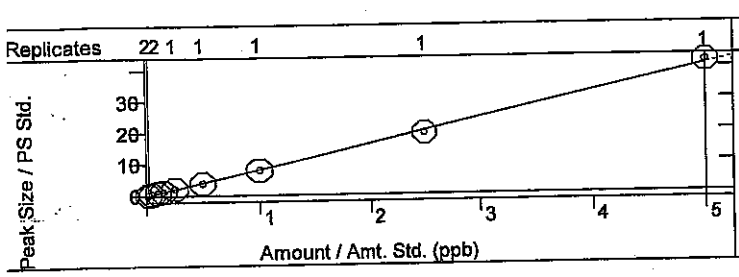
Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 46.96%, Coeff. Det.(r2): 0.998591
y = +0.8862x2 +2.3605x -0.1138



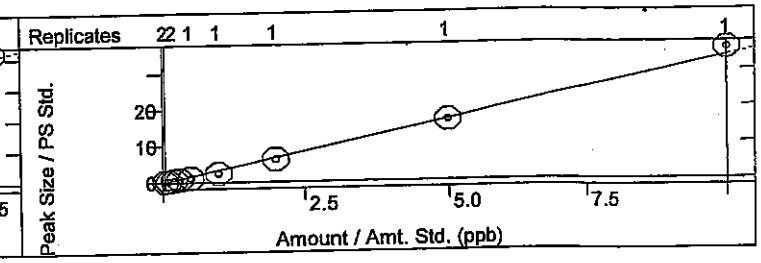
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.999047
y = +3.5126x -0.0027



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.273%, Coeff. Det.(r2): 0.999021
y = +8.1613x -0.0048

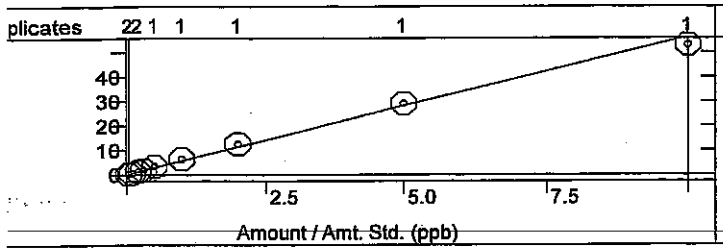


Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.99%, Coeff. Det.(r2): 0.998084
y = +3.3969x -0.0512



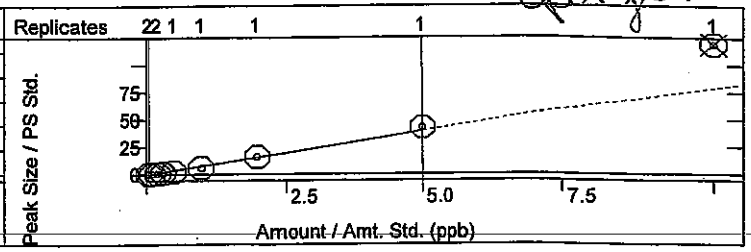
ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
ecalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
ample List:	N/A	Method Modified:	9/4/2014 11:24 AM
equence:	N/A	Detector:	200-MS Mass Spec
S Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

arbon disulfide
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.895%, Coeff. Det.(r2): 0.997307
= +5.6292x +0.1500



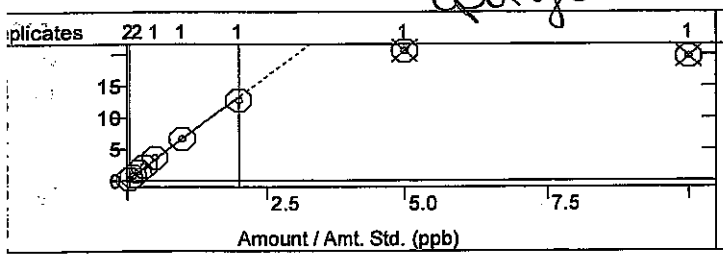
Iodomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 39.00%, Coeff. Det.(r2): 0.996600
y = +7.9543x -0.4664

cpd fit

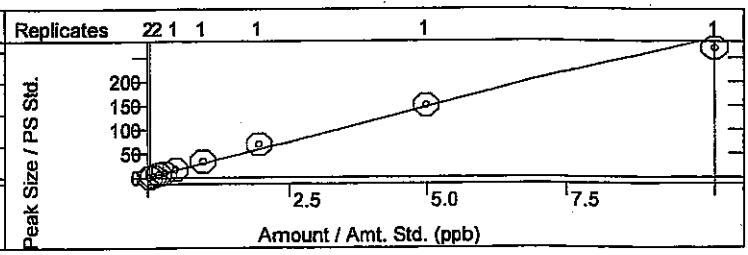


lethyl tert-butyl ether (MTBE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.403%, Coeff. Det.(r2): 0.998556
= +6.6011x +0.0845

cpd fit

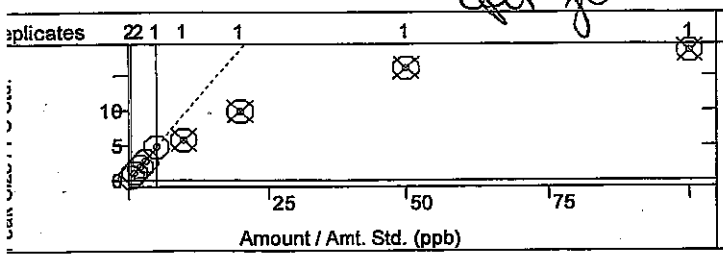


Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.021%, Coeff. Det.(r2): 0.995610
y = +29.1397x +0.7611

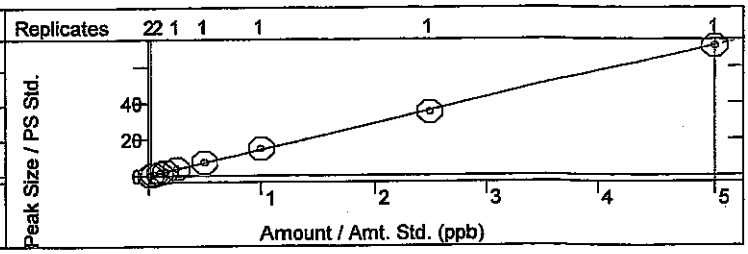


ert-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.017%, Coeff. Det.(r2): 0.998254
= +0.9325x +0.0995

cpd fit

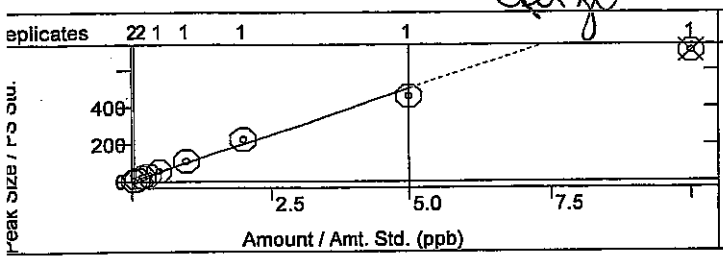


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.662%, Coeff. Det.(r2): 0.999784
y = +14.3704x +0.0615



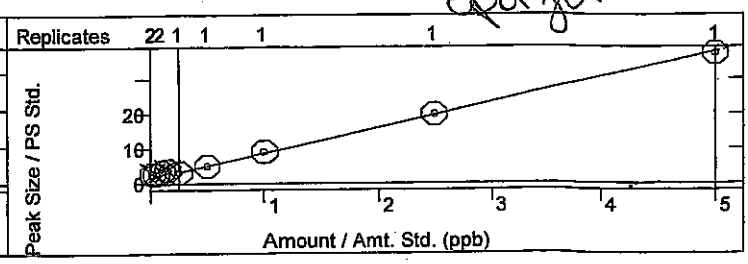
ert-Butyl ethyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.175%, Coeff. Det.(r2): 0.991835
= +100.0174x +2.2157

cpd fit



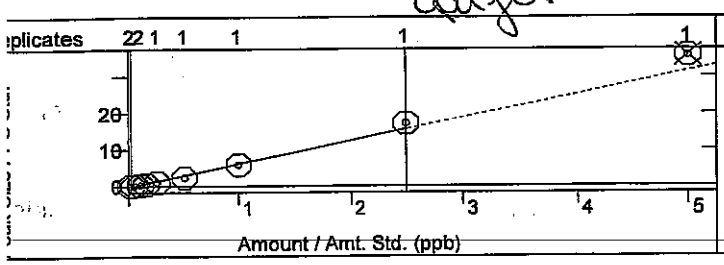
Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 22.87%, Coeff. Det.(r2): 0.999634
y = +7.2833x +1.4939

cpd fit

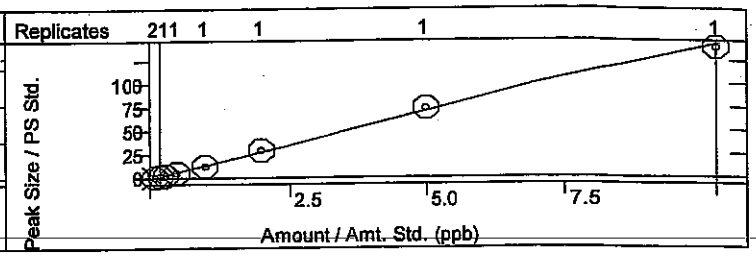


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

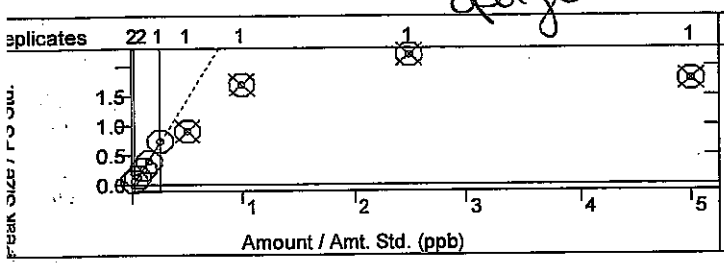
,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 36.43%, Coeff. Det.(r2): 0.995416
= +6.3254x -0.1808



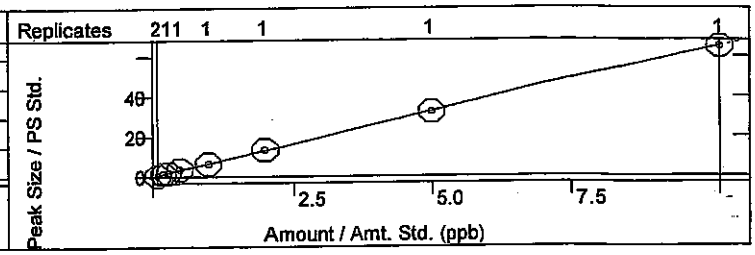
Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.09%, Coeff. Det.(r2): 0.998496
y = +14.4646x -1.2642



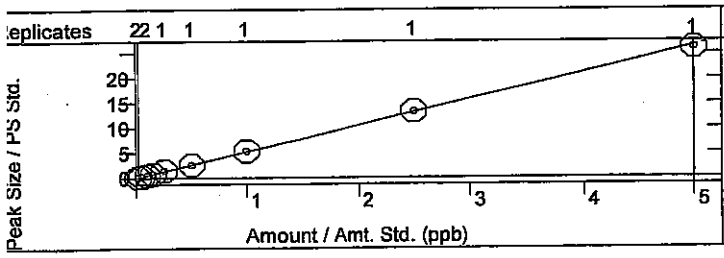
,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.022%, Coeff. Det.(r2): 0.993891
= +2.9379x -0.0153



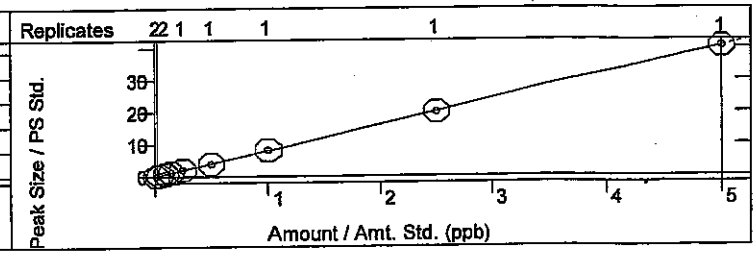
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.088%, Coeff. Det.(r2): 0.999913
y = +6.5236x +0.0274



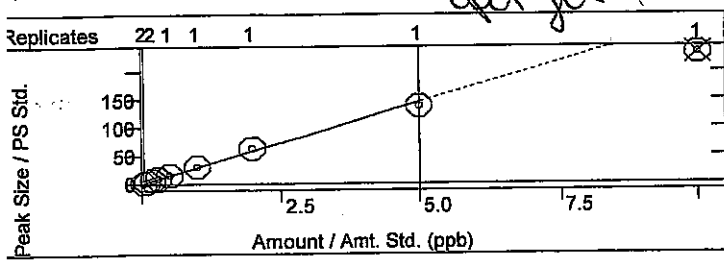
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.309%, Coeff. Det.(r2): 0.999819
y = +5.2795x +0.0161



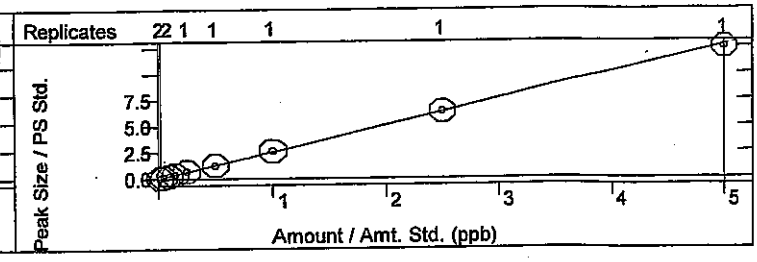
1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.513%, Coeff. Det.(r2): 0.999952
y = +8.0895x +0.0111



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.537%, Coeff. Det.(r2): 0.997173
y = +29.1170x +0.2776



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.398%, Coeff. Det.(r2): 0.999800
y = +2.5384x +0.0032



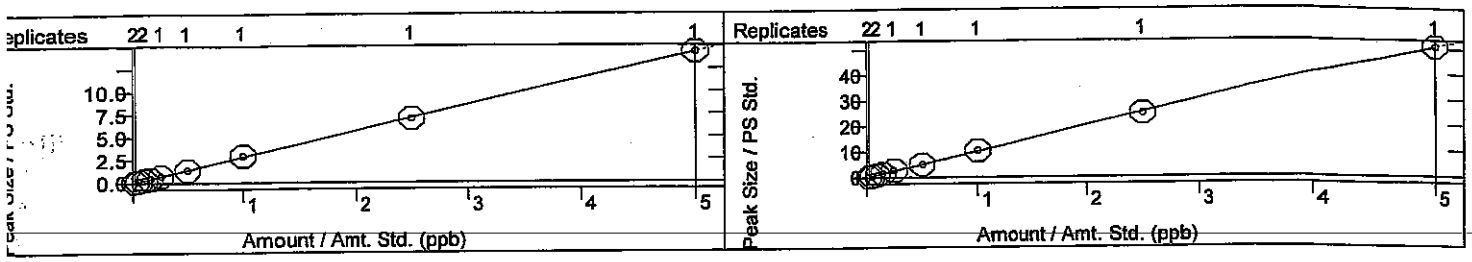
Calibration Curves Report

9-8-14 CO 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

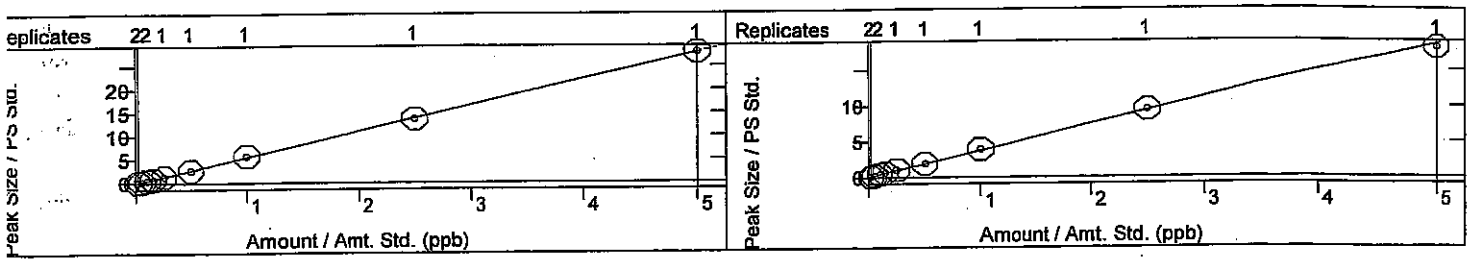
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.672%, Coeff. Det.(r2): 0.999882
y = +2.8729x +5.7204e-4

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.809%, Coeff. Det.(r2): 0.999867
y = +10.1754x +0.0237



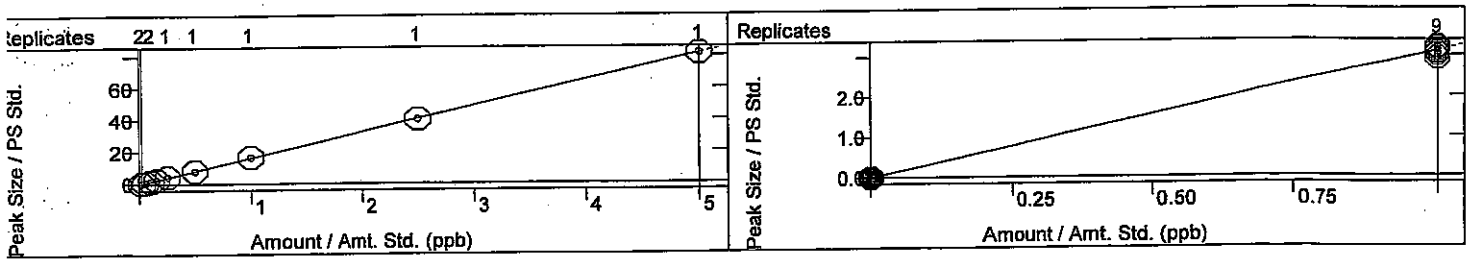
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.715%, Coeff. Det.(r2): 0.999856
y = +5.5895x -0.0168

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.68%, Coeff. Det.(r2): 0.999537
y = +3.7332x +0.0515



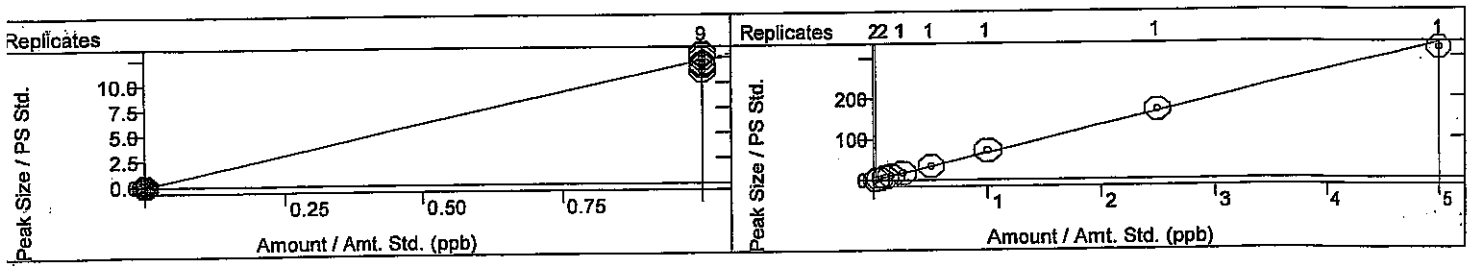
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.925%, Coeff. Det.(r2): 0.999929
y = +16.3543x +0.0517

Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.943%, Coeff. Det.(r2): 0.992359
y = +3.1142x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.250%, Coeff. Det.(r2): 0.976088
y = +12.2758x

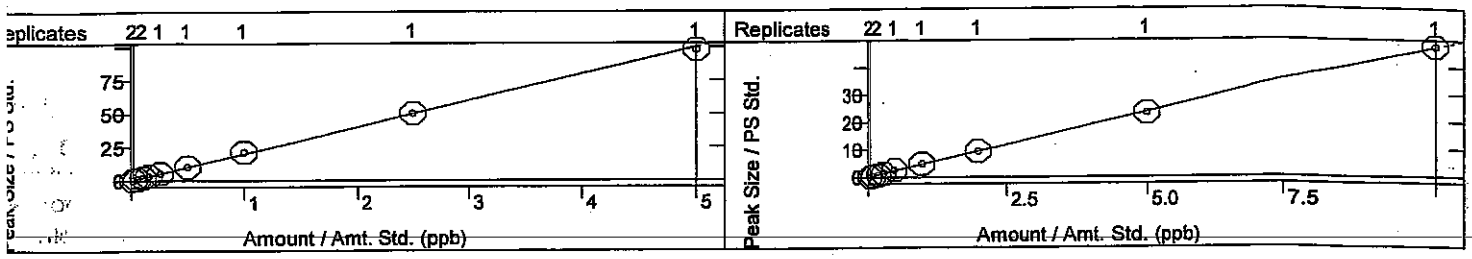
1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.850%, Coeff. Det.(r2): 0.998690
y = +66.3291x +0.2845



Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

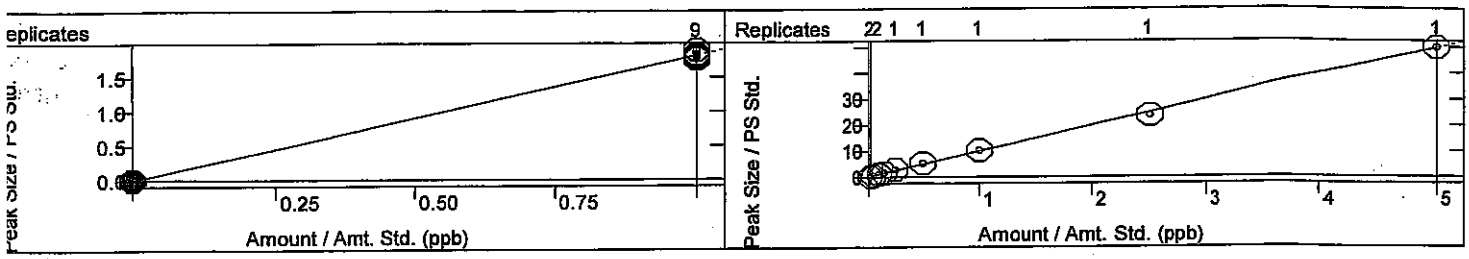
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.977%, Coeff. Det.(r2): 0.999621
y = +19.9939x +0.1213

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.941%, Coeff. Det.(r2): 0.999871
y = +4.7424x +0.0354



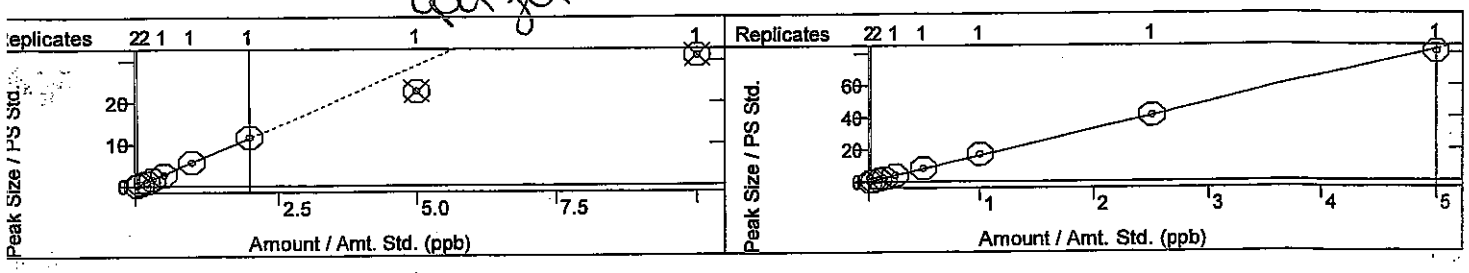
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.710%, Coeff. Det.(r2): 0.993517
y = +1.8193x

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.479%, Coeff. Det.(r2): 0.999324
y = +9.9440x +0.0709



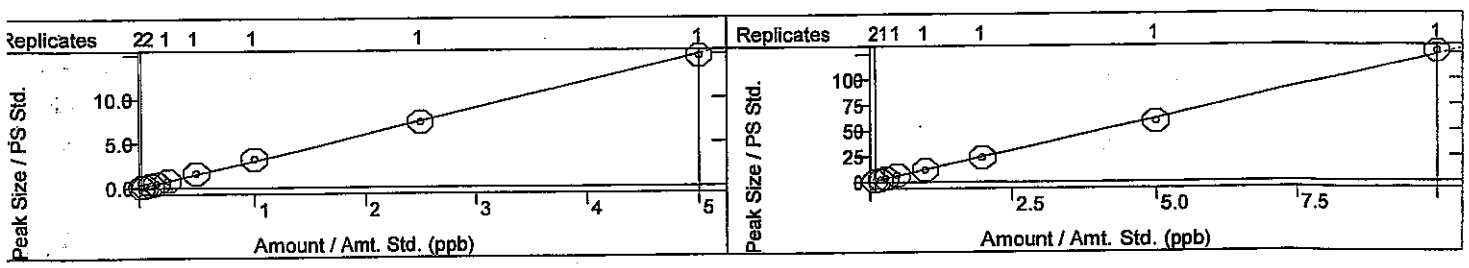
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.742%, Coeff. Det.(r2): 0.999630
y = +5.8091x -0.0778

cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.750%, Coeff. Det.(r2): 0.999731
y = +16.4363x -0.0725



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.597%, Coeff. Det.(r2): 0.999625
y = +2.9960x +0.0073

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.341%, Coeff. Det.(r2): 0.998761
y = +12.3449x -0.0521

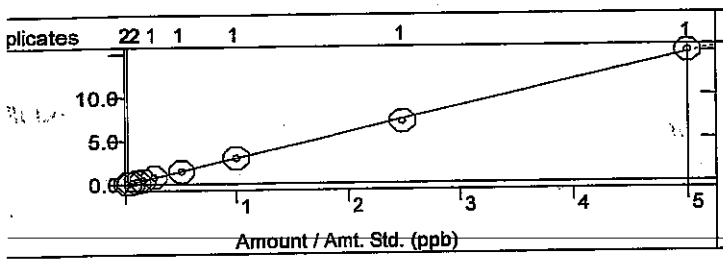


alibration Curves Report

JH 9-9-14 cgg-4

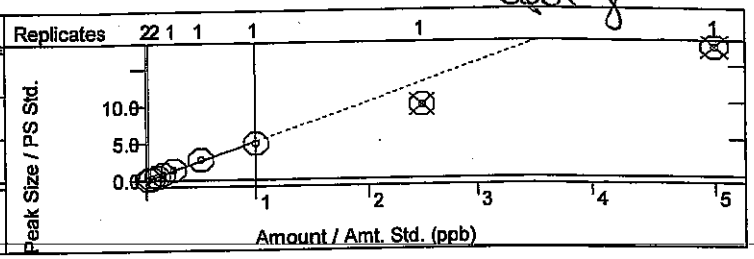
ethod:	c:\agilentws\methods\090314m 8260-5035 low.mth		
calc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
mple List:	N/A	Method Modified:	9/4/2014 11:24 AM
quence:	N/A	Detector:	200-MS Mass Spec
S Workstation		Workstation Version:	Version 7.0.1
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

etrachloroethene (PCE)
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.142%, Coeff. Det.(r2): 0.999392
= +2.9589x +0.0094

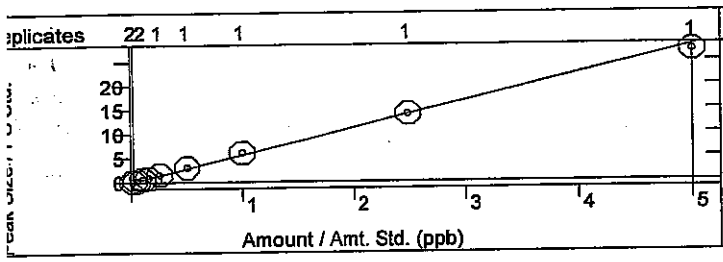


Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.975%, Coeff. Det.(r2): 0.995715
y = +5.1913x +0.0239

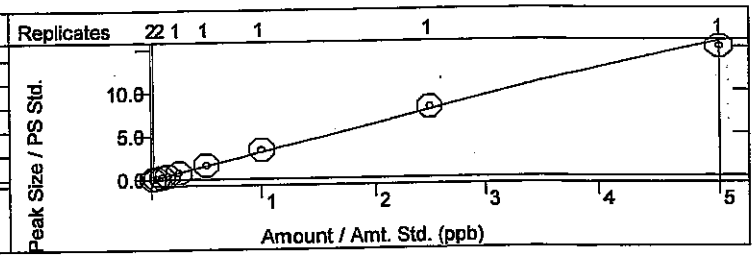
add pt



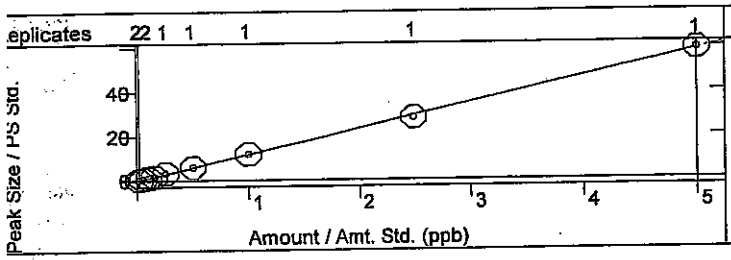
;3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.634%, Coeff. Det.(r2): 0.999154
= +5.6338x +0.0224



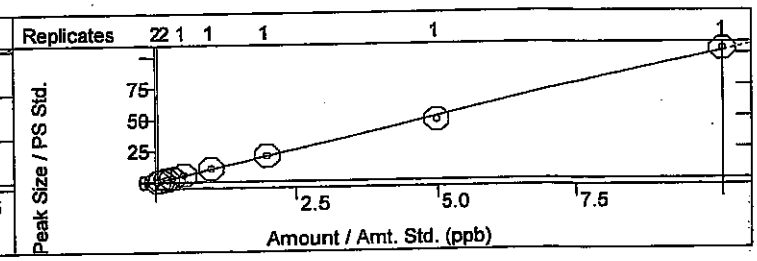
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.22%, Coeff. Det.(r2): 0.998047
y = +3.1481x -0.0258



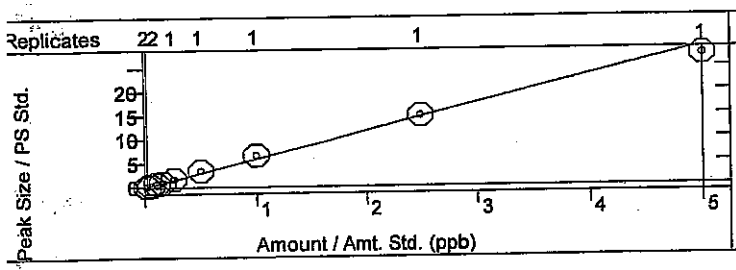
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.088%, Coeff. Det.(r2): 0.999494
y = +11.7081x +0.0625



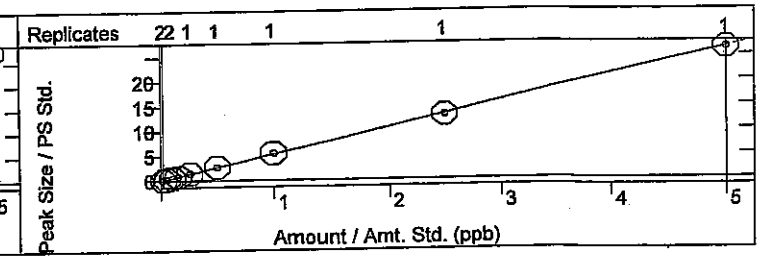
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.207%, Coeff. Det.(r2): 0.998798
y = +10.2159x +0.1080



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.581%, Coeff. Det.(r2): 0.997403
y = +5.8496x +0.0804

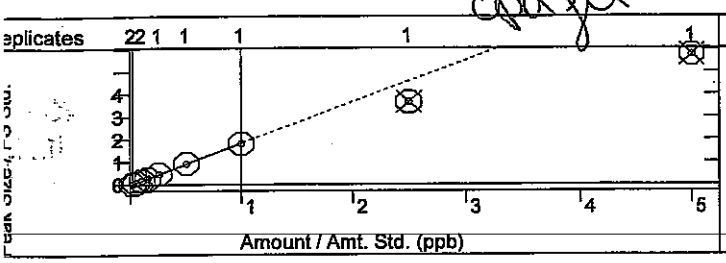


Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.693%, Coeff. Det.(r2): 0.999879
y = +5.3099x +0.0147

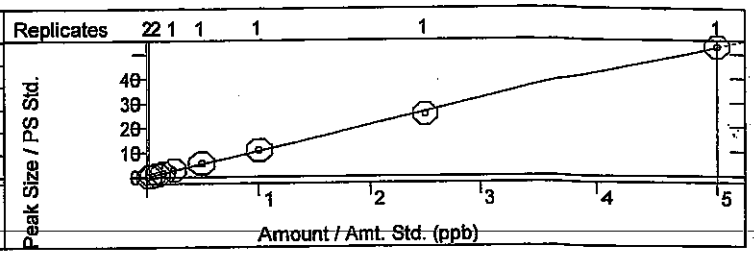


Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

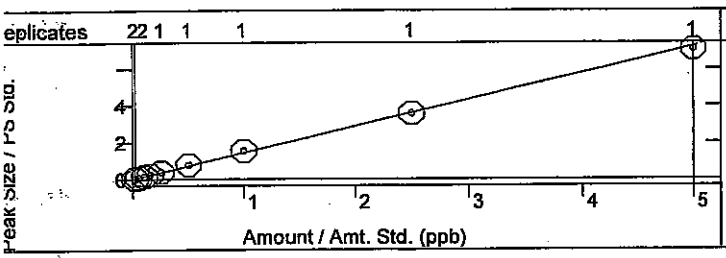
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.732%, Coeff. Det.(r2): 0.999739
y = +1.8403x -0.0045



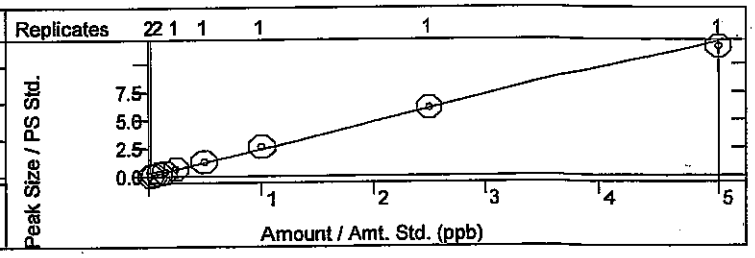
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.815%, Coeff. Det.(r2): 0.999452
y = +10.5405x +0.0557



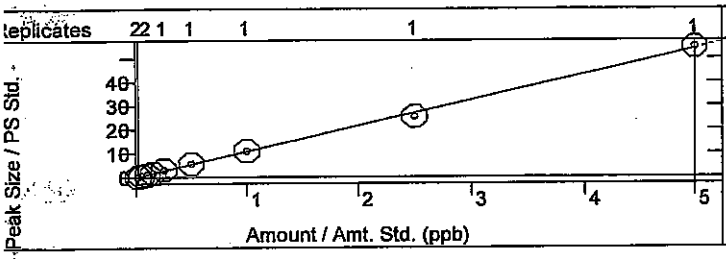
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.087%, Coeff. Det.(r2): 0.999669
y = +1.4451x +0.0081



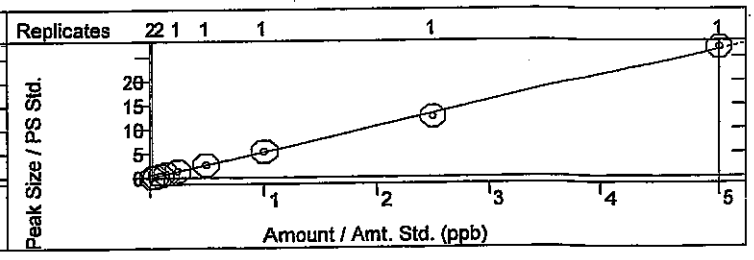
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.998961
y = +2.3996x +0.0158



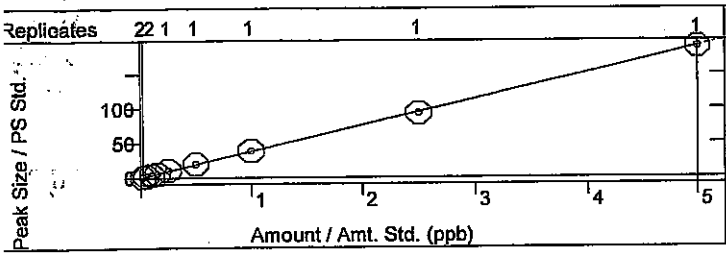
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.892%, Coeff. Det.(r2): 0.998825
y = +10.8045x +0.0550



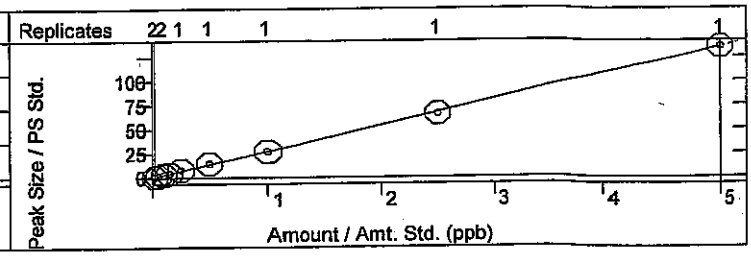
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.899%, Coeff. Det.(r2): 0.998854
y = +5.2942x +8.9042e-5



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.572%, Coeff. Det.(r2): 0.999866
y = +37.9568x +0.1982



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.263%, Coeff. Det.(r2): 0.999778
y = +27.0272x +0.1610



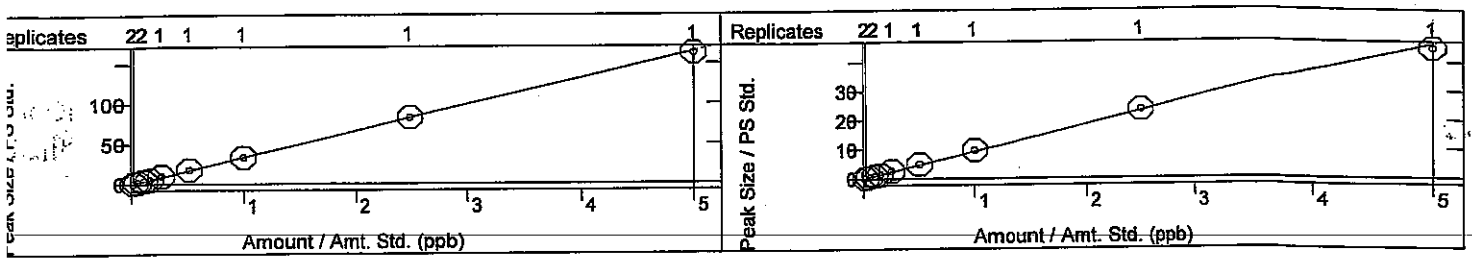
Calibration Curves Report

JH 9.8.14 cg 9-4-14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.579%, Coeff. Det.(r2): 0.999899
y = +33.0292x +0.2445

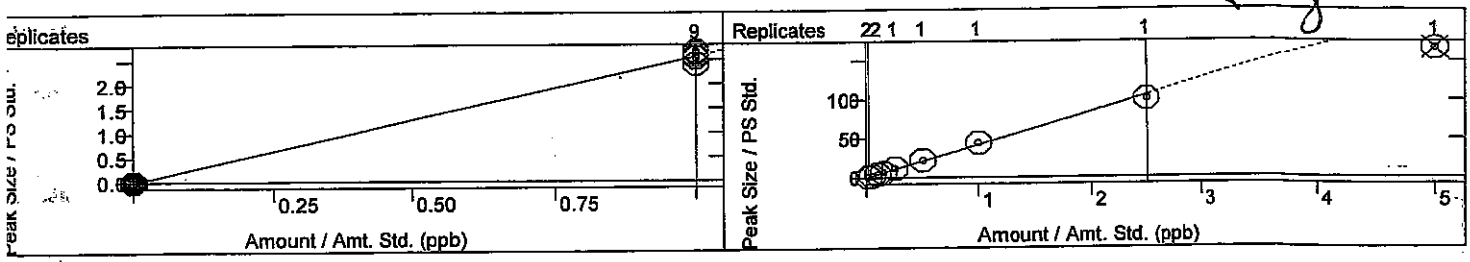
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.757%, Coeff. Det.(r2): 0.999285
y = +9.2502x +0.0802



4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.121% Coeff. Det.(r2): 0.991417
y = +2.5690x

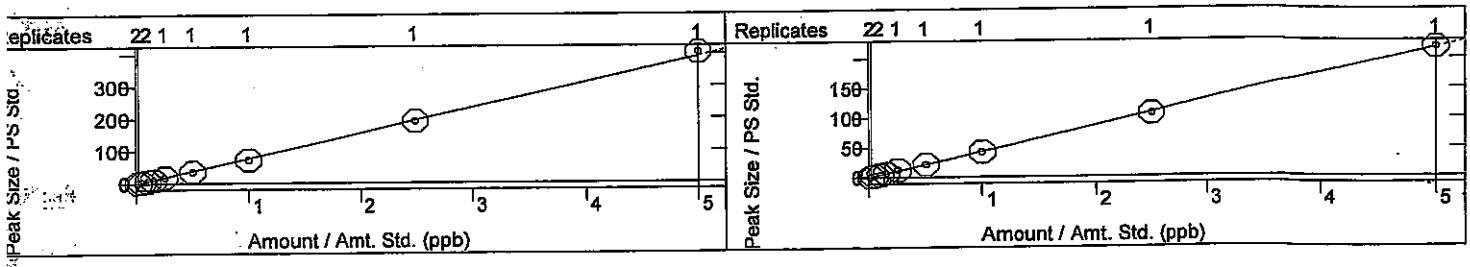
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.448%, Coeff. Det.(r2): 0.998161
y = +41.9231x +0.3665

cpd jit



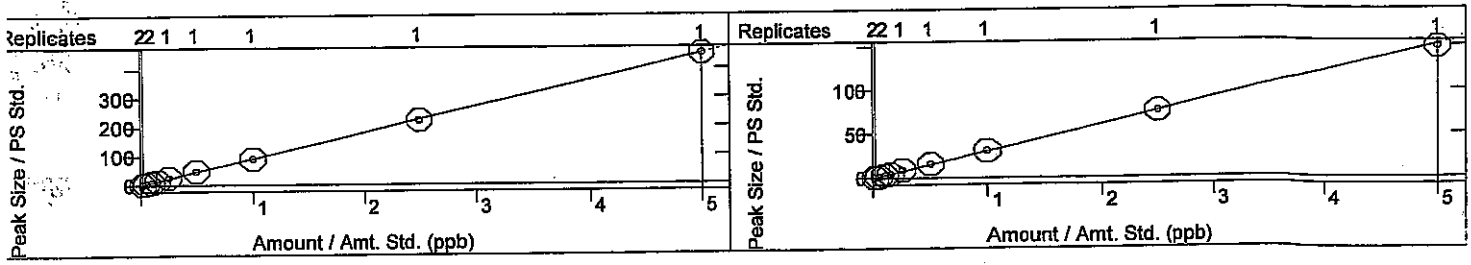
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.802%, Coeff. Det.(r2): 0.999312
y = +78.6326x -0.5475

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.172%, Coeff. Det.(r2): 0.999800
y = +43.5086x +0.1223



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.063%, Coeff. Det.(r2): 0.999867
y = +90.5348x +0.2598

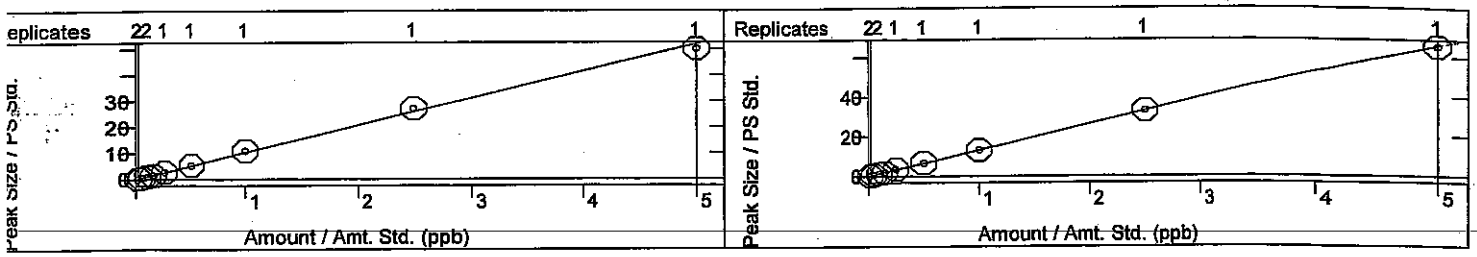
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.217%, Coeff. Det.(r2): 0.999760
y = +30.2770x +0.1271



Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

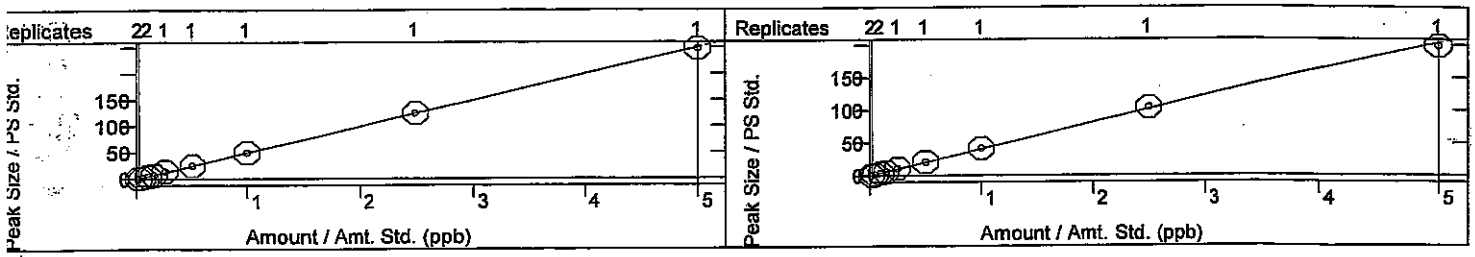
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.800%, Coeff. Det.(r2): 0.998357
y = +10.3966x +0.0185

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.650%, Coeff. Det.(r2): 0.999959
y = +13.2051x +0.0167



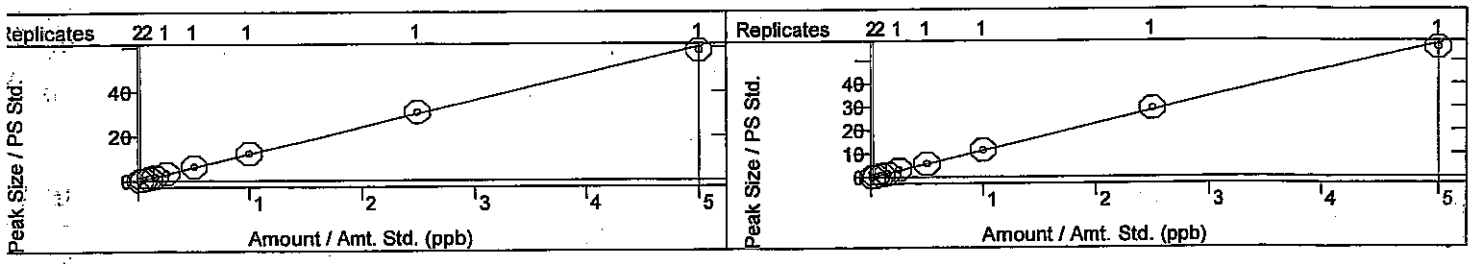
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.52%, Coeff. Det.(r2): 0.999904
y = +50.0584x -0.2464

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.625%, Coeff. Det.(r2): 0.999413
y = +40.6854x +0.0721



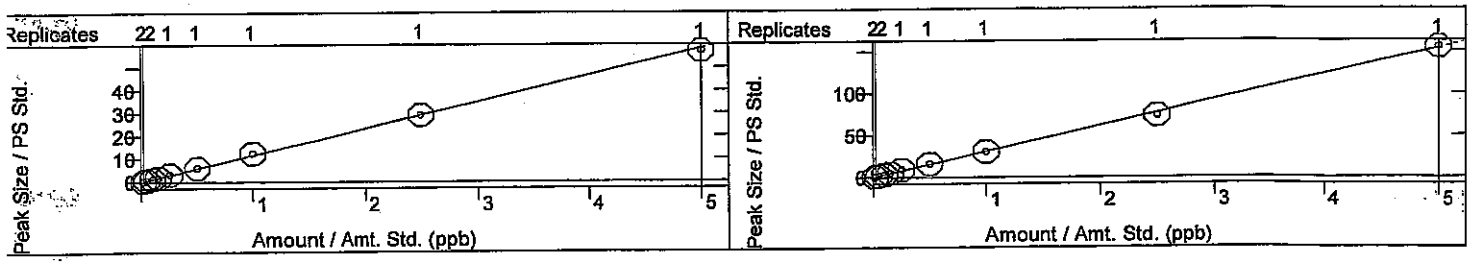
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.814%, Coeff. Det.(r2): 0.999359
y = +12.0551x +0.0695

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.431%, Coeff. Det.(r2): 0.999158
y = +11.4181x +0.0101



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.445%, Coeff. Det.(r2): 0.999664
y = +11.6752x +0.0363

Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.988%, Coeff. Det.(r2): 0.999172
y = +30.6810x +0.2157

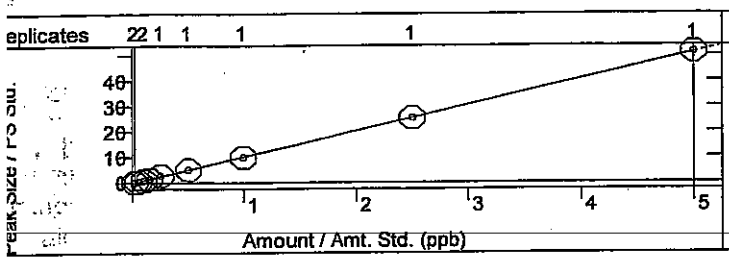


Calibration Curves Report

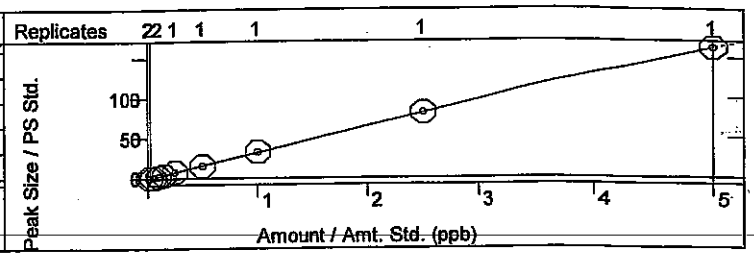
J 9-8-14 cg 9.24.14

Method:	c:\agilentws\methods\090314m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	9/3/2014 5:45 PM
Sample List:	N/A	Method Modified:	9/4/2014 11:24 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

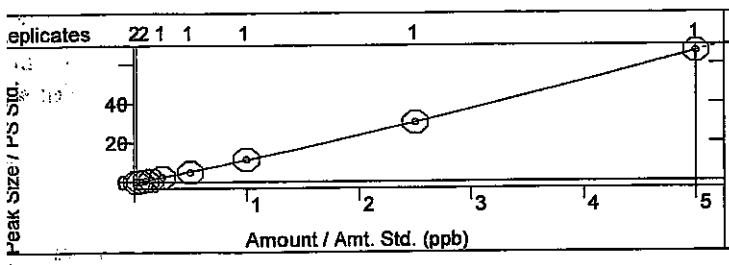
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.203%, Coeff. Det.(r2): 0.999938
y = +10.2100x -0.0514



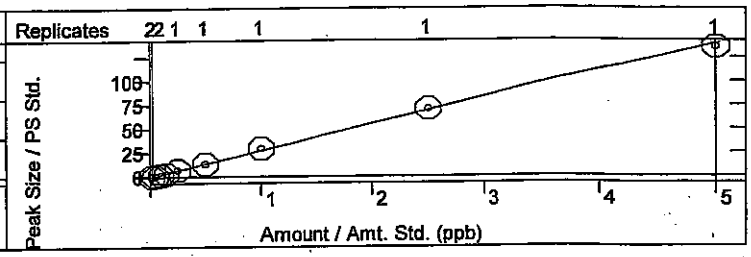
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.07%, Coeff. Det.(r2): 0.999925
y = +32.7507x -0.5342



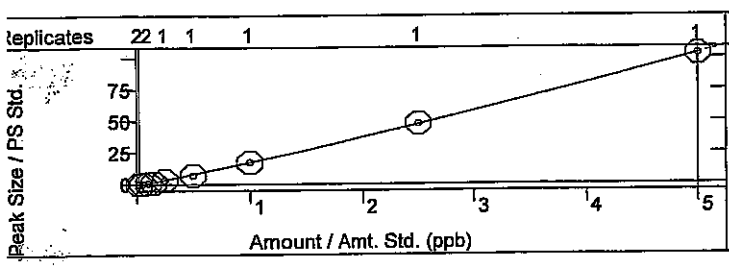
Naphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 34.14%, Coeff. Det.(r2): 0.999925
y = +0.4166x2 +11.2560x -0.3990



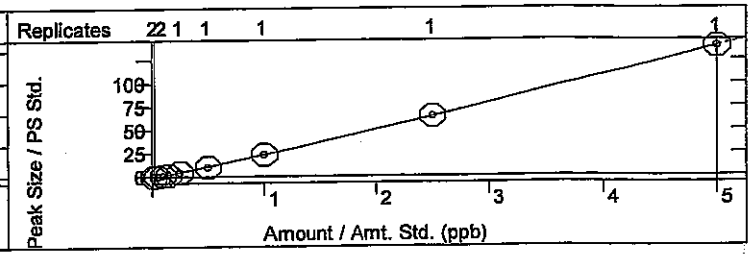
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.68%, Coeff. Det.(r2): 0.999155
y = +27.9638x -0.4212



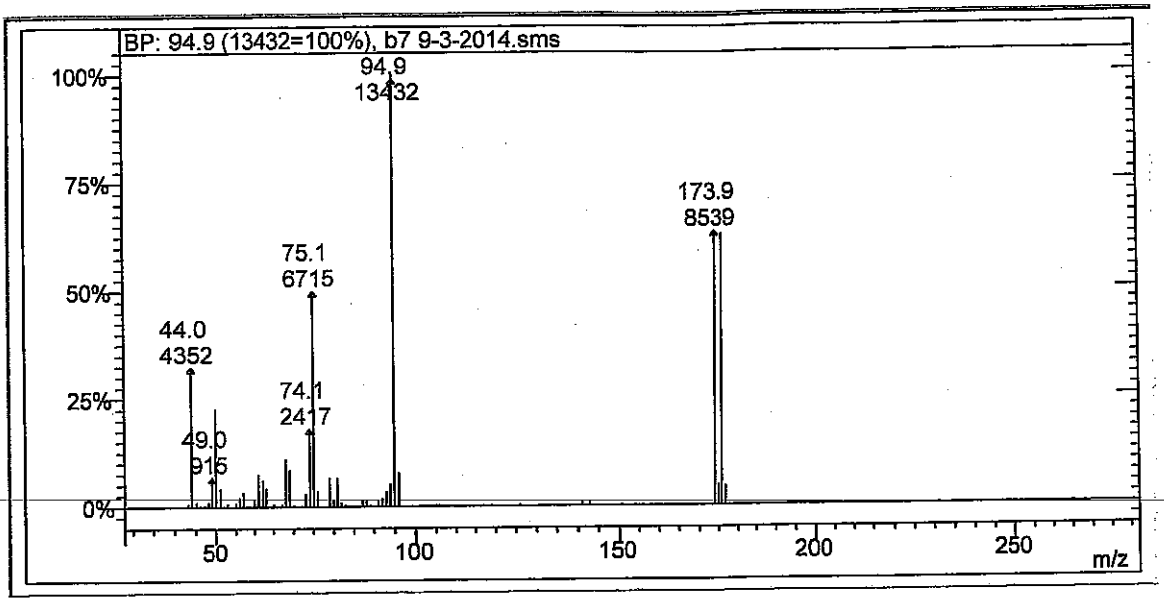
2-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 49.58%, Coeff. Det.(r2): 0.999762
y = +0.5470x2 +18.1464x -1.0873



1-Methylnaphthalene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 45.07%, Coeff. Det.(r2): 0.999872
y = +0.7696x2 +24.2810x -1.2688



BFB 8260B Report



Lab File ID b7 9-3-2014.sms

Injection Date: 9/3/2014

Injection Time: 12:32

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	22.74	PASS
75	30-60% of m/z 95	49.99	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.68	PASS
173	<2% of m/z 174	0.09	PASS
174	>50% of m/z 95	63.57	PASS
175	5-9% of m/z 174	7.44	PASS
176	>95% but <101% of m/z 174	99.07	PASS
177	5-9% of m/z 176	7.01	PASS

9-4-14

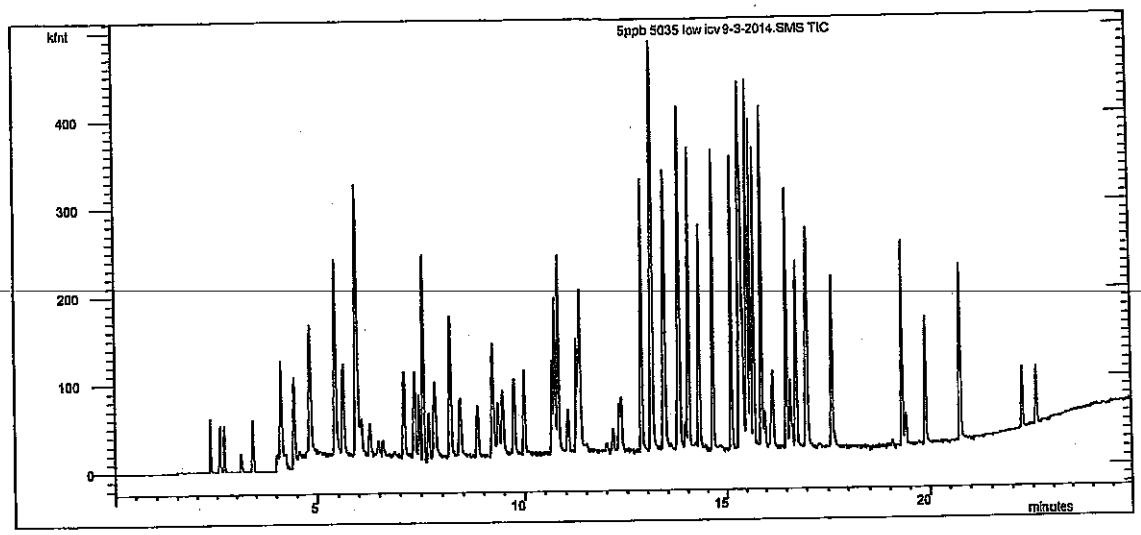
JPH 9.8.14

8260B/624 Report

Sample Name: 5ppb 5035 low icv **Operator Name:** Rene Aguilera **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\090314m 8260-5035 Low.mth **Inj. Notes:** V-54-0480 **Acquisition Date:** 9/3/2014 6:46:58 PM

Calculation Date: 9/4/2014 11:48:50 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.094	696	Identified	64075	20.000
Benzene-d5-, chloro-	13.403	1373	Identified	88987	20.000
1,4-Dichlorobenzene-d4	16.985	1752	Identified	33984	20.000
Dichlorodifluoromethane	2.336	183	Identified	44145	6.116
Chloromethane	2.579	209	Identified	203519	5.138
Vinyl chloride	2.689	221	Identified	240349	5.525
Chloroethane	3.119	267	Identified	39337	5.162
Bromomethane	3.124	268	Identified	42468	5.922
Trichlorofluoromethane	3.410	299	Identified	50341	4.489
1,1-Dichloroethene	4.114	376	Identified	121291	4.651
Acetone	4.292	395	Identified	94864	9.018
Carbon disulfide	4.430	410	Identified	219569	11.642
Iodomethane	4.557	423	Identified	143107	6.788
Methyl tert-butyl ether (MTBE)	4.827	452	Identified	233104	10.766
Isopropyl ether	5.434	517	Identified	1.128E6	11.564
tert-Butyl alcohol	5.498	524	Identified	291430	95.414
trans-1,2-DCE	5.627	538	Identified	231551	4.944
tert-Butyl ethyl ether	5.943	572	Identified	3.707E6	11.127
Methylene Chloride	5.977	576	Identified	159997	2.755
1,1-Dichloroethane	6.066	585	Identified	59972	3.531
Vinyl acetate	6.271	608	Failed	692021	16.681
2,2-Dichloropropane	6.481	630	Identified	61068	6.593
2-Butanone	6.587	641	Identified	241544	11.473
1,1,1-Trichloroethane	7.357	725	Identified	86526	5.054

SPL

09-4-14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.469	736	Identified	124609	4.781
tert-Amyl methyl ether	7.566	747	Identified	1.022E6	10.766
Carbon Tetrachloride	7.688	759	Identified	41066	5.024
cis-1,2-DCE	7.835	775	Identified	44594	4.841
Benzene	8.202	814	Identified	162206	4.929
Chloroform	8.430	839	Identified	85312	4.824
Bromochloromethane	8.847	884	Identified	67728	5.387
Trichloroethene (TCE)	9.215	924	Identified	268227	5.056
Dibromofluoromethane	9.243	927	Identified	197047	19.750
1,2-Dichloroethane-d4	9.357	939	Identified	806399	20.504
1,2-Dichloroethane (EDC)	9.463	950	Identified	1.080E6	4.998
1,2-Dichloropropane	9.741	979	Identified	336108	5.126
4-Methyl-2-pentanone	9.991	1007	Identified	242089	11.324
Toluene-d8	10.740	1088	Identified	167927	20.746
Toluene	10.822	1096	Identified	244788	5.390
2-Chloroethyl vinyl ether	11.056	1121	Identified	271596	10.776
cis-1,3-dichloropropene	11.269	1144	Identified	322310	4.495
Bromodichloromethane	11.279	1145	Identified	72426	5.384
2-Hexanone	11.327	1151	Identified	622026	11.409
Tetrachloroethene (PCE)	11.361	1154	Identified	71825	5.392
Dibromomethane	11.367	1155	Identified	125581	5.345
1,3-Dichloropropane	12.310	1256	Identified	137755	5.416
trans-1,3-dichloropropene	12.364	1262	Identified	65218	4.820
Ethylbenzene	12.850	1314	Identified	290619	5.472
mp-Xylenes	13.100	1341	Identified	497121	10.725
1,1,2-Trichloroethane	13.093	1340	Identified	158919	5.831
Chlorobenzene	13.427	1375	Identified	124752	5.225
1,2-Dibromoethane (EDB)	13.409	1374	Identified	39064	4.820
o-Xylene	13.771	1412	Identified	259980	5.438
Dibromochloromethane	13.740	1408	Identified	36901	5.627
1,1,1,2-Tetrachloroethane	13.791	1413	Identified	60164	5.503
Isopropylbenzene	14.012	1437	Identified	266957	5.451
Styrene	14.280	1465	Identified	124324	5.277
n-Propylbenzene	14.636	1503	Identified	332633	5.053
1,3,5-Trimethylbenzene	15.115	1555	Identified	238490	5.074
tert-Butylbenzene	15.325	1577	Identified	294685	5.103
2-Chlorotoluene	15.363	1581	Failed SPV	84054	5.174
4-Bromofluorobenzene	15.410	1585	Identified	84416	19.339
Bromobenzene	15.506	1596	Identified	377595	5.126
4-Chlorotoluene	15.524	1597	Identified	592052	4.570
sec-Butylbenzene	15.602	1606	Identified	381023	5.098
1,2,4-Trimethylbenzene	15.693	1615	Identified	781644	5.024
4-Isopropyltoluene	15.891	1636	Identified	284833	5.453
Bromoform	15.970	1644	Identified	87775	4.933
1,2,3-Trichloropropane	16.176	1666	Identified	114968	5.099
n-Butylbenzene	16.504	1701	Identified	414740	4.974
1,1,2,2-Tetrachloroethane	16.599	1711	Identified	358532	5.151
1,3-Dichlorobenzene	16.753	1728	Identified	105023	5.012
1,4-Dichlorobenzene	17.014	1755	Identified	98363	5.052
1,2-Dichlorobenzene	17.596	1818	Identified	99352	4.946

5009-4-141

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.311	2003	Identified	282641	5.281
1,2-Dibromo-3-chloropropane	19.401	2012	Identified	84313	4.961
1,2,4-Trichlorobenzene	19.895	2065	Identified	242994	4.693
Naphthalene	20.749	2156	Identified	74284	4.554
1,2,3-Trichlorobenzene	20.767	2158	Identified	211354	4.749
2-Methylnaphthalene	22.249	2313	Identified	147441	5.927
1-Methylnaphthalene	22.603	2351	Identified	190487	5.612

****
Revision Log
****

9/3/2014 7:11 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 8:18 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'
9/4/2014 11:48 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\090314m 8260-5035 Low.mth'

JV 9/10/14

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-001
Client Sample ID: FFOR-CF-0072
Collection Date: 9/5/2014 8:10:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Dibenzofuran	1.0	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Fluorene	0.19	0.22	J	mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Indeno(1,2,3-cd)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Isophorone	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2-Methylnaphthalene	29	2.2		mg/Kg-dry	10	15158	9/9/2014 2:43:07 PM
2-Methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Naphthalene	17	2.2		mg/Kg-dry	10	15158	9/9/2014 2:43:07 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Nitroaniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Nitrobenzene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Pentachlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Phenanthrene	0.041	0.22	J	mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Phenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Pyridine	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 5:34:14 PM
Surr: 2-Fluorophenol	0	21-111	S	%REC	1	15158	9/8/2014 5:34:14 PM
Surr: Phenol-d5	129	23.1-117	S	%REC	1	15158	9/8/2014 5:34:14 PM
Surr: 2,4,6-Tribromophenol	93.1	22.7-88.9	S	%REC	1	15158	9/8/2014 5:34:14 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 5:34:14 PM
Surr: 2-Fluorobiphenyl	72.5	21.2-129		%REC	1	15158	9/8/2014 5:34:14 PM
Surr: 4-Terphenyl-d14	74.4	39.4-107		%REC	1	15158	9/8/2014 5:34:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-002
Client Sample ID: FFOR-CF-0073
Collection Date: 9/5/2014 9:05:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Fluorene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Isophorone	ND	0.54	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Phenol	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Pyrene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Pyridine	ND	0.54	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/9/2014 2:13:57 PM
Surr: 2-Fluorophenol	67.4	21-111	%REC	1	15158	9/9/2014 2:13:57 PM
Surr: Phenol-d5	63.8	23.1-117	%REC	1	15158	9/9/2014 2:13:57 PM
Surr: 2,4,6-Tribromophenol	63.3	22.7-88.9	%REC	1	15158	9/9/2014 2:13:57 PM
Surr: Nitrobenzene-d5	67.6	24.5-126	%REC	1	15158	9/9/2014 2:13:57 PM
Surr: 2-Fluorobiphenyl	70.8	21.2-129	%REC	1	15158	9/9/2014 2:13:57 PM
Surr: 4-Terphenyl-d14	68.1	39.4-107	%REC	1	15158	9/9/2014 2:13:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-003 **Collection Date:** 9/5/2014 11:16:00 AM
Client Sample ID: FFOR-CF-0074 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Aniline	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Anthracene	0.047	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Benz(a)anthracene	0.25	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Benzo(a)pyrene	0.13	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Benzo(b)fluoranthene	0.63	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Benzo(g,h,i)perylene	0.13	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Bis(2-ethylhexyl)phthalate	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Carbazole	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Chloro-3-methylphenol	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Chloroaniline	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Chloronaphthalene	ND	0.26		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Chrysene	0.25	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Di-n-butyl phthalate	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Dibenz(a,h)anthracene	0.071	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Dibenzofuran	0.20	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
3,3'-Dichlorobenzidine	ND	0.26		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4-Dimethylphenol	ND	0.31		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4,6-Dinitro-2-methylphenol	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4-Dinitrophenol	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,6-Dinitrotoluene	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.79	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Fluorene	0.089	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Indeno(1,2,3-cd)pyrene	0.15	0.21	J	mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Isophorone	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Methylnaphthalene	3.0	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Methylphenol	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
3+4-Methylphenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Naphthalene	1.5	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Nitrobenzene	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
4-Nitrophenol	ND	0.26		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Phenanthrene	0.49	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Phenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Pyrene	0.90	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Pyridine	ND	0.52		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	15158	9/8/2014 6:03:26 PM
Surr: 2-Fluorophenol	43.6	21-111		%REC	1	15158	9/8/2014 6:03:26 PM
Surr: Phenol-d5	82.5	23.1-117		%REC	1	15158	9/8/2014 6:03:26 PM
Surr: 2,4,6-Tribromophenol	84.0	22.7-88.9		%REC	1	15158	9/8/2014 6:03:26 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	15158	9/8/2014 6:03:26 PM
Surr: 2-Fluorobiphenyl	77.5	21.2-129		%REC	1	15158	9/8/2014 6:03:26 PM
Surr: 4-Terphenyl-d14	79.8	39.4-107		%REC	1	15158	9/8/2014 6:03:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-004 **Collection Date:** 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Acenaphthylene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Aniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Benz(a)anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Benzo(a)pyrene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Benzo(b)fluoranthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Benzo(g,h,i)perylene	0.20	0.43	J	mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Benzo(k)fluoranthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Bis(2-chloroisopropyl)ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Carbazole	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Chrysene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Di-n-octyl phthalate	ND	0.87		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Dibenz(a,h)anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Dibenzofuran	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
3,3'-Dichlorobenzidine	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4-Dichlorophenol	ND	0.87		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4-Dimethylphenol	ND	0.65		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Fluorene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Hexachlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Hexachlorocyclopentadiene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Hexachloroethane	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Indeno(1,2,3-cd)pyrene	0.15	0.43	J	mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Isophorone	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Methylnaphthalene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
3+4-Methylphenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
N-Nitrosodi-n-propylamine	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
N-Nitrosodimethylamine	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
N-Nitrosodiphenylamine	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Naphthalene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Nitroaniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
3-Nitroaniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Nitroaniline	ND	0.87		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2-Nitrophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
4-Nitrophenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Pentachlorophenol	ND	0.87		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Phenanthrene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Phenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Pyrene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Pyridine	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
1,2,4-Trichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4,5-Trichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
2,4,6-Trichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 6:32:31 PM
Surr: 2-Fluorophenol	82.4	21-111		%REC	1	15158	9/8/2014 6:32:31 PM
Surr: Phenol-d5	77.0	23.1-117		%REC	1	15158	9/8/2014 6:32:31 PM
Surr: 2,4,6-Tribromophenol	78.6	22.7-88.9		%REC	1	15158	9/8/2014 6:32:31 PM
Surr: Nitrobenzene-d5	85.9	24.5-126		%REC	1	15158	9/8/2014 6:32:31 PM
Surr: 2-Fluorobiphenyl	89.3	21.2-129		%REC	1	15158	9/8/2014 6:32:31 PM
Surr: 4-Terphenyl-d14	89.1	39.4-107		%REC	1	15158	9/8/2014 6:32:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-005 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0076 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Acenaphthylene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Aniline	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Anthracene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Benz(a)anthracene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Benzo(a)pyrene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Benzo(b)fluoranthene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Benzo(g,h,i)perylene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Benzo(k)fluoranthene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Bis(2-chloroethoxy)methane	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Bis(2-chloroethyl)ether	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Bis(2-chloroisopropyl)ether	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Bromophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Butyl benzyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Carbazole	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Chloronaphthalene	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Chlorophenol	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Chlorophenyl phenyl ether	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Chrysene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Di-n-octyl phthalate	ND	0.84		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Dibenz(a,h)anthracene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Dibenzofuran	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
1,2-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
1,3-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
1,4-Dichlorobenzene	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
3,3'-Dichlorobenzidine	ND	0.53		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Diethyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Dimethyl phthalate	ND	0.42		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4-Dichlorophenol	ND	0.84		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4-Dimethylphenol	ND	0.63		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Fluorene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Hexachlorobenzene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Hexachlorobutadiene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Hexachlorocyclopentadiene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Hexachloroethane	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Indeno(1,2,3-cd)pyrene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Isophorone	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Methylnaphthalene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Methylphenol	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
3+4-Methylphenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
N-Nitrosodi-n-propylamine	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
N-Nitrosodimethylamine	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
N-Nitrosodiphenylamine	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Naphthalene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Nitroaniline	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
3-Nitroaniline	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Nitroaniline	ND	0.84	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Nitrobenzene	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2-Nitrophenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
4-Nitrophenol	ND	0.53	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Pentachlorophenol	ND	0.84	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Phenanthrene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Phenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Pyrene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Pyridine	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
1,2,4-Trichlorobenzene	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4,5-Trichlorophenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
2,4,6-Trichlorophenol	ND	0.42	mg/Kg-dry	1	15158	9/8/2014 9:27:06 PM
Surr: 2-Fluorophenol	90.2	21-111	%REC	1	15158	9/8/2014 9:27:06 PM
Surr: Phenol-d5	80.8	23.1-117	%REC	1	15158	9/8/2014 9:27:06 PM
Surr: 2,4,6-Tribromophenol	71.8	22.7-88.9	%REC	1	15158	9/8/2014 9:27:06 PM
Surr: Nitrobenzene-d5	91.0	24.5-126	%REC	1	15158	9/8/2014 9:27:06 PM
Surr: 2-Fluorobiphenyl	85.8	21.2-129	%REC	1	15158	9/8/2014 9:27:06 PM
Surr: 4-Terphenyl-d14	82.2	39.4-107	%REC	1	15158	9/8/2014 9:27:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-006 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0077 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Acenaphthylene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Aniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Benz(a)anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Benzo(a)pyrene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Benzo(b)fluoranthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Benzo(g,h,i)perylene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Benzo(k)fluoranthene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Bis(2-chloroisopropyl)ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Carbazole	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Chrysene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Di-n-octyl phthalate	ND	0.86		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Dibenz(a,h)anthracene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Dibenzofuran	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
3,3'-Dichlorobenzidine	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4-Dichlorophenol	ND	0.86		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4-Dimethylphenol	ND	0.64		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Fluorene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Hexachlorobenzene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Hexachlorobutadiene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Hexachlorocyclopentadiene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Hexachloroethane	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Isophorone	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Methylnaphthalene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Methylphenol	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
3+4-Methylphenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
N-Nitrosodimethylamine	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
N-Nitrosodiphenylamine	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Naphthalene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Nitroaniline	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
3-Nitroaniline	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Nitroaniline	ND	0.86	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Nitrobenzene	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2-Nitrophenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
4-Nitrophenol	ND	0.54	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Pentachlorophenol	ND	0.86	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Phenanthrene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Phenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Pyrene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Pyridine	ND	1.1	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4,5-Trichlorophenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
2,4,6-Trichlorophenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 7:01:38 PM
Surr: 2-Fluorophenol	60.7	21-111	%REC	1	15158	9/8/2014 7:01:38 PM
Surr: Phenol-d5	60.0	23.1-117	%REC	1	15158	9/8/2014 7:01:38 PM
Surr: 2,4,6-Tribromophenol	67.3	22.7-88.9	%REC	1	15158	9/8/2014 7:01:38 PM
Surr: Nitrobenzene-d5	65.9	24.5-126	%REC	1	15158	9/8/2014 7:01:38 PM
Surr: 2-Fluorobiphenyl	70.5	21.2-129	%REC	1	15158	9/8/2014 7:01:38 PM
Surr: 4-Terphenyl-d14	78.7	39.4-107	%REC	1	15158	9/8/2014 7:01:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-007 **Collection Date:** 9/5/2014 9:13:00 AM
Client Sample ID: FFOR-CF-0084 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Acenaphthylene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Acenaphthene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Fluorene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Phenanthrene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Anthracene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Fluoranthene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Pyrene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Chrysene	0.0073	0.020	J	mg/Kg	1	15163	9/9/2014 4:00:05 PM
Benzo(b)fluoranthene	0.035	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Dibenz(a,h)anthracene	0.0087	0.020	J	mg/Kg	1	15163	9/9/2014 4:00:05 PM
Benzo(g,h,i)perylene	0.025	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Indeno(1,2,3-cd)pyrene	0.025	0.020		mg/Kg	1	15163	9/9/2014 4:00:05 PM
Surr: N-hexadecane	54.2	27-106		%REC	1	15163	9/9/2014 4:00:05 PM
Surr: Benzo(e)pyrene	61.1	34.7-131		%REC	1	15163	9/9/2014 4:00:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1409275**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-008
Client Sample ID: FFOR-CF-0085
Collection Date: 9/5/2014 9:13:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Acenaphthylene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Acenaphthene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Fluorene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Phenanthrene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Anthracene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Fluoranthene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Pyrene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Chrysene	0.0093	0.020	J	mg/Kg	1	15163	9/9/2014 5:09:46 PM
Benzo(b)fluoranthene	0.043	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Benzo(a)pyrene	0.011	0.020	J	mg/Kg	1	15163	9/9/2014 5:09:46 PM
Dibenz(a,h)anthracene	0.0093	0.020	J	mg/Kg	1	15163	9/9/2014 5:09:46 PM
Benzo(g,h,i)perylene	0.028	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Indeno(1,2,3-cd)pyrene	0.029	0.020		mg/Kg	1	15163	9/9/2014 5:09:46 PM
Surr: N-hexadecane	69.6	27-106		%REC	1	15163	9/9/2014 5:09:46 PM
Surr: Benzo(e)pyrene	71.0	34.7-131		%REC	1	15163	9/9/2014 5:09:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-009 **Collection Date:** 9/5/2014 1:46:00 PM
Client Sample ID: FFOR-CF-0111 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Benzo(g,h,i)perylene	0.10	0.22	J	mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Fluorene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Indeno(1,2,3-cd)pyrene	0.092	0.22	J	mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Isophorone	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Naphthalene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Nitroaniline	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Nitrobenzene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Pentachlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Phenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Pyridine	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:30:42 PM
Surr: 2-Fluorophenol	58.7	21-111		%REC	1	15158	9/8/2014 7:30:42 PM
Surr: Phenol-d5	63.0	23.1-117		%REC	1	15158	9/8/2014 7:30:42 PM
Surr: 2,4,6-Tribromophenol	64.7	22.7-88.9		%REC	1	15158	9/8/2014 7:30:42 PM
Surr: Nitrobenzene-d5	64.8	24.5-126		%REC	1	15158	9/8/2014 7:30:42 PM
Surr: 2-Fluorobiphenyl	71.9	21.2-129		%REC	1	15158	9/8/2014 7:30:42 PM
Surr: 4-Terphenyl-d14	72.1	39.4-107		%REC	1	15158	9/8/2014 7:30:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-010 **Collection Date:** 9/5/2014 1:55:00 PM
Client Sample ID: FFOR-CF-0112 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Anthracene	0.11	0.22	J	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Benz(a)anthracene	0.35	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Benzo(a)pyrene	0.45	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Benzo(b)fluoranthene	0.72	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Benzo(g,h,i)perylene	0.76	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Carbazole	0.073	0.22	J	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Chrysene	0.45	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Dibenz(a,h)anthracene	0.23	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.58	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Fluorene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Indeno(1,2,3-cd)pyrene	0.65	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Isophorone	ND	0.54	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Phenanthrene	0.24	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Phenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Pyrene	0.60	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Pyridine	ND	0.54	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 8:58:01 PM
Surr: 2-Fluorophenol	73.3	21-111	%REC	1	15158	9/8/2014 8:58:01 PM
Surr: Phenol-d5	72.7	23.1-117	%REC	1	15158	9/8/2014 8:58:01 PM
Surr: 2,4,6-Tribromophenol	75.3	22.7-88.9	%REC	1	15158	9/8/2014 8:58:01 PM
Surr: Nitrobenzene-d5	75.6	24.5-126	%REC	1	15158	9/8/2014 8:58:01 PM
Surr: 2-Fluorobiphenyl	77.8	21.2-129	%REC	1	15158	9/8/2014 8:58:01 PM
Surr: 4-Terphenyl-d14	78.0	39.4-107	%REC	1	15158	9/8/2014 8:58:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-011 **Collection Date:** 9/5/2014 2:40:00 PM
Client Sample ID: FFOR-CF-0113 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/10/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Aniline	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Carbazole	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Chrysene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Di-n-butyl phthalate	0.056	0.55	J	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Comment: DUE 09/10/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Fluorene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Isophorone	ND	0.55	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Phenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Pyrene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Pyridine	ND	0.55	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	15158	9/8/2014 7:59:46 PM
Surr: 2-Fluorophenol	60.4	21-111	%REC	1	15158	9/8/2014 7:59:46 PM
Surr: Phenol-d5	65.0	23.1-117	%REC	1	15158	9/8/2014 7:59:46 PM
Surr: 2,4,6-Tribromophenol	63.8	22.7-88.9	%REC	1	15158	9/8/2014 7:59:46 PM
Surr: Nitrobenzene-d5	62.4	24.5-126	%REC	1	15158	9/8/2014 7:59:46 PM
Surr: 2-Fluorobiphenyl	67.9	21.2-129	%REC	1	15158	9/8/2014 7:59:46 PM
Surr: 4-Terphenyl-d14	71.4	39.4-107	%REC	1	15158	9/8/2014 7:59:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Start Date: 09/07/14 10:36:38 A
Prep End Date:

Extraction Method: 3540 9.7.14 Time Ended:

Reviewed By: dam 9/8/14

Prep Batch ID: 15158 Prep Code: 8270SOX_PR Method No: 3540 Technician: John Caldwell

Initial Temp: °C Final Temp °C

Prep Factor Units: mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15158		Soil			30	0	0	1	0.033	09/07/14	
LCS-15158		Soil			30	0	0	1	0.033	09/07/14	
1409219-001A	FFOR-CF-0063	MeOH (Soil)			30.47	0	0	10	0.033	09/07/14	
1409219-002A	FFOR-CF-0064	MeOH (Soil)			30.47	0	0	10	0.033	09/07/14	
1409219-003A	FFOR-CF-0065	MeOH (Soil)			30.44	0	0	10	0.033	09/07/14	
1409219-004A	FFOR-CF-0066	MeOH (Soil)			30.66	0	0	2	0.033	09/07/14	
1409219-005A	FFOR-CF-0067	MeOH (Soil)			30.99	0	0	2	0.033	09/07/14	
1409219-006A	FFOR-CF-0068	MeOH (Soil)			30.91	0	0	10	0.033	09/07/14	
1409219-007A	FFOR-CF-0069	MeOH (Soil)			30.07	0	0	10	0.033	09/07/14	
1409219-008A	FFOR-CF-0070	MeOH (Soil)			30.74	0	0	1	0.033	09/07/14	
1409219-008AMS		MeOH (Soil)			30.07	0	0	1	0.033	09/07/14	
1409219-008AMSD		MeOH (Soil)			30.12	0	0	1	0.033	09/07/14	
1409219-009A	FFOR-CF-0071	MeOH (Soil)			30.15	0	0	1	0.033	09/07/14	
1409275-001A	FFOR-CF-0072	MeOH (Soil)			30.10	0	0	1	0.033	09/07/14	
1409275-002A	FFOR-CF-0073	MeOH (Soil)			30.98	0	0	1	0.033	09/07/14	
1409275-003A	FFOR-CF-0074	MeOH (Soil)			~~30~~ 31.10	0	0	1	0.033	09/07/14	
1409275-004A	FFOR-CF-0075	MeOH (Soil)			30.06	0	0	2	0.033	09/07/14	
1409275-005A	FFOR-CF-0076	MeOH (Soil)			~~30~~ 31.41	0	0	2	0.033	09/07/14	
1409275-006A	FFOR-CF-0077	MeOH (Soil)			30.87	0	0	2	0.033	09/07/14	
1409275-009A	FFOR-CF-0111	MeOH (Soil)			30.22	0	0	1	0.033	09/07/14	
1409275-010A	FFOR-CF-0112	MeOH (Soil)			30.37	0	0	1	0.033	09/07/14	
1409275-011A	FFOR-CF-0113	MeOH (Soil)			30.51	0	0	1	0.033	09/07/14	

dam 9/8/14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

9.7.14

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **09/07/14 10:36:38 A**
Prep End Date:

Prep Batch ID: **15158** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **John Caldwell**

Initial Temp: **°C** Final Temp **°C** Prep Factor Units: **mL / g**

Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 JC 9.7.14	µL
ST8270-14029	8270 BNA Surrogate	ALL	25746	Container-01 of 01	500 JC 9.7.14	µL
ST8270-14031	8270 Internal Standard	ALL	26282	Container-01 of 01	20 dam 9/8	µL

JC 9-7-14

PREP BATCH REPORT

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Extraction Method 3540

Prep Start Date: 9/8/2014 8:47:00 A
Prep End Date:

Time Started: 11:00
Time Ended: 5:00

Reviewed By: dam 9/9/14

Prep Factor Units: mL / g

Prep Batch ID: 15163 Prep Code: 8270_S_PRSI Method No: 8270C Technician: Steve Crandell

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15163		Solid			30	0	0	1	0.033	9/8/2014	
LCS-15163		Solid			30	0	0	1	0.033	9/8/2014	
1409275-007A	FFOR-CF-0084	Soil			30.05	0	0	1	0.033	9/8/2014	
1409275-007AMS		Soil			30.12	0	0	1	0.033	9/8/2014	
1409275-007AMSD		Soil			29.88	0	0	1	0.033	9/8/2014	
1409275-008A	FFOR-CF-0085	Soil			30.03	0	0	1	0.033	9/8/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20	µL
ST8270-14035	100ppm PAH LCS	LCS	26544	Container-01 of 01	100	µL
ST8310-14004	100ppm B(e)p, 450ppm N-Hex	SAMP	25595	Container-01 of 01	100	µL

****

Varian Star Workstation - 8400 SampleList Tue Sep 09 08:21:40 2014

SampleList: C:\VarianWS\090814.smp

Created: Mon Sep 08 09:46:03 2014
Modified: Mon Sep 08 23:21:33 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume	
1	dftpp tune	1	below	0	1.0	
	Notes sv110-0601					
2	50ppm ccv	1	below	1	1.0	
	Notes sv110-0594					
3	50ppm ccvb	1	below	1	1.0	
	Notes sv110-0594					
4	10ppm ll ccv	1	below	2	1.0	
	Notes sv110-0562					
5	1408f23-001a	1	below	3	1.0	
	Notes x1 ll					
6	1408f23-001ams	1	below	4	1.0	
	Notes x1 ll					
7	1408f23-001amsd	1	below	5	1.0	
	Notes x1 ll					
8						
9	mb-15158	1	below	6	1.0	
	Notes x1 soil					
10	lcs-15158	1	below	7	1.0	
	Notes x1 soil					
11	1409219-001a	1	below	8	1.0	
	Notes x1 soil FV=10mL					
12	1409219-002a	1	below	9	1.0	
	Notes x1 soil FV=10mL					
13	1409219-003a	1	below	10	1.0	
	Notes x1 soil FV=10mL					
14	1409219-005a	1	below	11	1.0	
	Notes x1 soil FV=2mL					
15	1409219-006a	1	below	12	1.0	
	Notes x1 soil FV=10mL					
16	1409219-007a	1	below	13	1.0	
	Notes x1 soil FV=10mL					
17	1409219-008a	1	below	14	1.0	
	Notes x1 soil					
18	1409219-008ams	1	below	15	1.0	
	Notes x1 soil					
19	1409275-001a	1	below	16	1.0	
	Notes x1 soil					
20	1409275-003a	1	below	17	1.0	
	Notes x1 soil					
21	1409275-004a	1	below	18	1.0	
	Notes x1 soil FV=2mL					
22	1409275-006a	1	below	19	1.0	
	Notes x1 soil FV=2mL					
23	1409275-009a	1	below	20	1.0	
	Notes x1 soil					
24	1409275-011a	1	below	21	1.0	
	Notes x1 soil					
25	1409219-008amsd	1	below	22	1.0	
	Notes x1 soil					
26	1409275-010a	1	below	23	1.0	
	Notes x1 soil					
27	1409275-005a	1	below	24	1.0	
	Notes x1 soil FV=2mL					
28	1409219-005a	1	below	25	1.0	RR
	Notes x1 soil FV=2mL					
29	1409219-004a	1	below	26	1.0	RR
	Notes x1 soil FV=2mL					
30	1409275-002a	1	below	27	1.0	RR
	Notes x1 soil					
31						

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

dam 9/9/14

1409219-09A dam 9/9/14

9.9.14

Create and update a new RecalcList: c:\varianws\090814.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

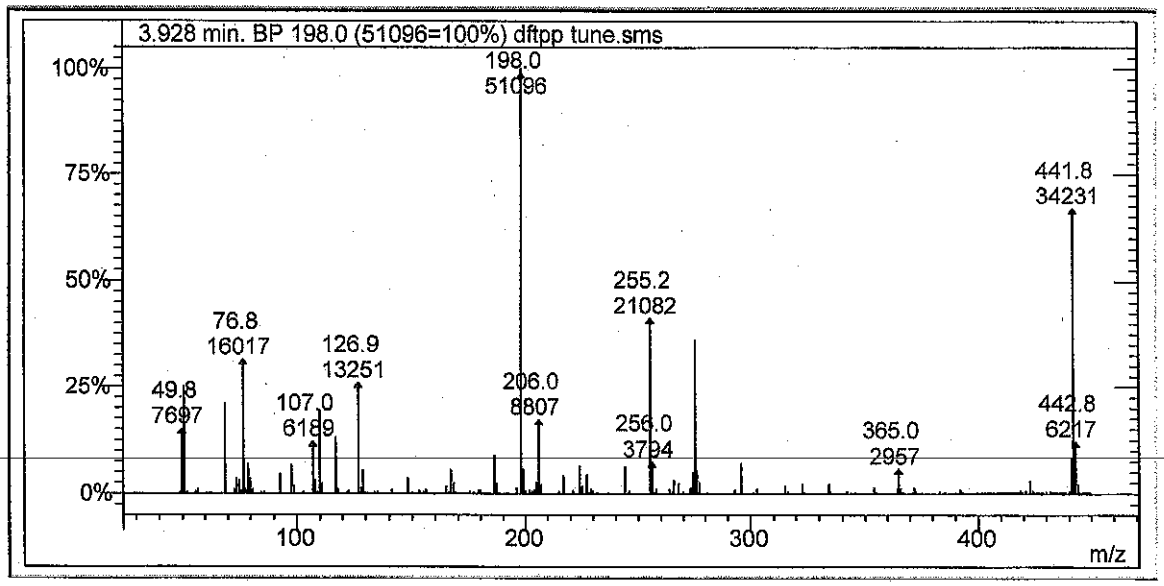
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: _____ 4/28/14

QA: _____ 4.28.14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/8/2014

Injection Time: 9:48

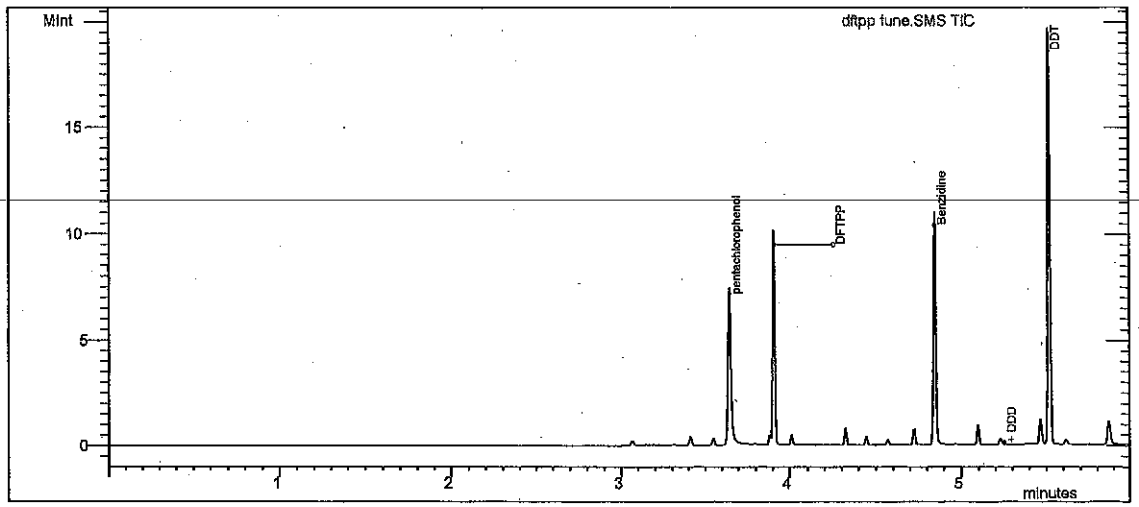
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	24.98	PASS
68	<2% of m/z 69	0.51	PASS
69	Present	21.02	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	25.93	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.71	PASS
275	10-60% of base peak	36.01	PASS
365	>1% of base peak	5.79	PASS
441	Present and <m/z 443	67.30	PASS
442	>50% of m/z 198	66.99	PASS
443	15-24% of m/z 442	18.16	PASS

dm 9/9/14

9.9.14

Degradation Report

Acquisition Date:	9/8/2014 9:48:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.519	4.984E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.252	18220	5
DDE	4.971	1710	6

% Degradation of DDT : = .398

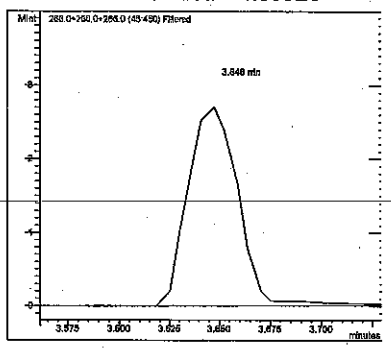
dam 9/9/14

9.9.14

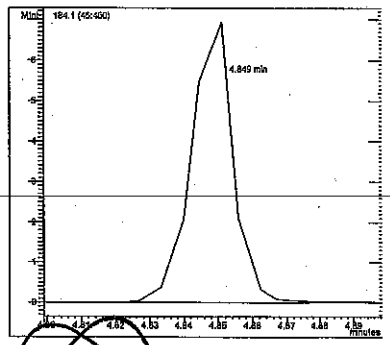
Tailing and Gaussian Factor Report

Acquisition Date: 9/8/2014 9:48:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.646 Area = 4.685E6



Benzidine
RT = 4.849 Area = 5.917E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.646	1.068	0.852
Benzidine	4.849	0.590	0.871

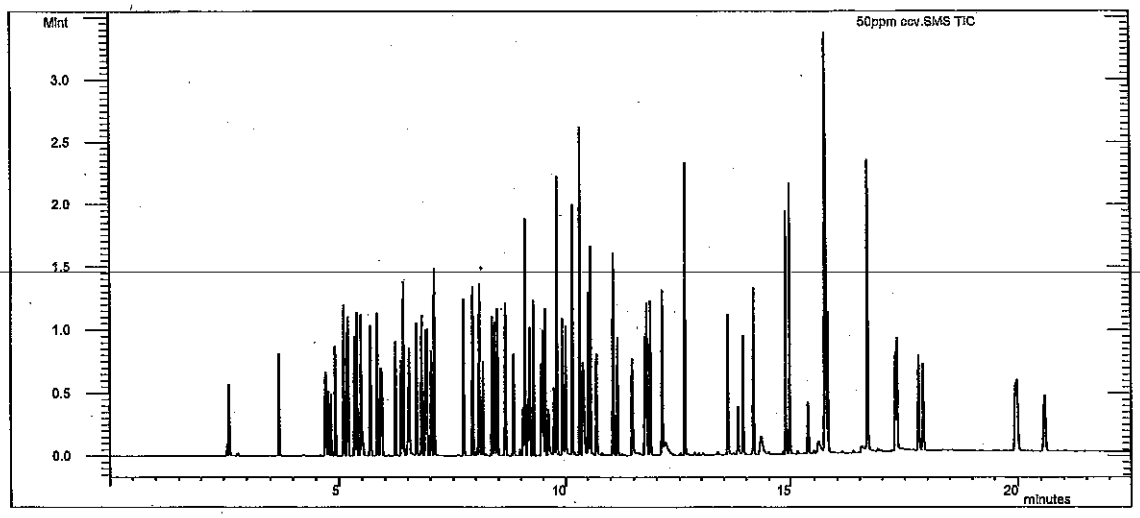
#	Compound Name	RT	Area
1	pentachlorophenol	3.646	4.685E6
3	Benzidine	4.849	5.917E6

dam 9/9/14

JC 9.9.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/8/2014 10:02:30 AM
Calculation Date:	9/8/2014 10:25:00 AM				



RR

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.174	437	Identified	213158	40.000
Naphthalene-d8 (I.S)	6.897	617	Identified	679716	40.000
Acenaphthene-d10 (I.S)	9.495	890	Identified	291680	40.000
Phenanthrene-d10	11.742	1124	Identified	624472	40.000
Chrysene-d12 I.S	15.757	1541	Identified	647475	40.000
Perylene-d12 I.S	17.907	1761	Identified	829049	40.000
N-nitrosodimethylamine	2.584	163	Identified	869516	53.790
Pyridine	2.629	168	Identified	2.782E6	57.465
2-Fluorophenol	3.699	281	Identified	292073	47.777
Phenol-d5	4.705	388	Identified	291605	50.123
Phenol	4.721	390	Identified	314574	48.123
Aniline	4.774	395	Identified	861812	39.515
Bis(2-chloroethyl)ether	4.829	401	Identified	504014	46.932
2-Chlorophenol	4.917	410	Identified	317407	49.789
1,3-Dichlorobenzene	5.104	430	Identified	377640	46.965
1,4-Dichlorobenzene	5.196	439	Identified	379769	49.942
Benzyl alcohol	5.341	455	Identified	295093	49.376
1,2-Dichlorobenzene	5.392	460	Identified	371159	49.500
2-Methylphenol	5.479	469	Identified	255743	49.178
Bis(2-chloroisopropyl)ether	5.498	471	Identified	332754	44.411
3+4-Methylphenol	5.684	490	Identified	281581	42.977
N-Nitrosodi-n-propylamine	5.675	490	Identified	882580	46.774
Hexachloroethane	5.830	506	Identified	1.250E6	50.627
Nitrobenzene-d5	5.904	514	Identified	269211	51.587

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.931	516	Identified	247653	45.801
Isophorone	6.237	549	Identified	516515	51.912
2-Nitrophenol	6.364	562	Identified	269901	51.191
2,4-Dimethylphenol	6.412	567	Identified	293147	47.272
Benzoic acid	6.519	578	Identified	2.309E6	61.167
Bis(2-chloroethoxy)methane	6.539	580	Identified	334696	54.401
2,4-Dichlorophenol	6.700	597	Identified	292940	48.780
1,2,4-Trichlorobenzene	6.814	609	Identified	284908	51.314
Naphthalene	6.929	621	Identified	683348	48.431
4-Chloroaniline	7.017	630	Identified	311126	47.406
Hexachlorobutadiene	7.088	637	Identified	568689	50.343
4-Chloro-3-methylphenol	7.730	705	Identified	350627	49.233
2-Methylnaphthalene	7.932	726	Identified	203409	47.531
1-Methylnaphthalene	8.080	742	Identified	206415	47.366
Hexachlorocyclopentadiene	8.157	750	Identified	364303	42.737
2,4,6-Trichlorophenol	8.362	771	Failed	130312	49.804
2,4,5-Trichlorophenol	8.419	777	Identified	117199	48.367
2-Fluorobiphenyl	8.477	783	Identified	564828	50.465
2-Chloronaphthalene	8.659	802	Identified	592677	51.924
2-Nitroaniline	8.839	821	Identified	433513	53.307
Dimethyl phthalate	9.094	848	Identified	1.119E6	53.349
2,6-Dinitrotoluene	9.199	859	Identified	261555	51.971
Acenaphthylene	9.283	868	Identified	707243	49.779
3-Nitroaniline	9.459	886	Identified	414755	52.236
Acenaphthene	9.544	895	Identified	451959	49.062
2,4-Dinitrophenol	9.612	902	Identified	1.290E6	78.231
4-Nitrophenol	9.741	915	Failed	87141	61.577
Dibenzofuran	9.803	922	Identified	317410	47.347
2,4-Dinitrotoluene	9.805	922	Identified	132931	49.416
Diethyl phthalate	10.152	958	Identified	939834	51.368
4-Chlorophenyl phenyl ether	10.318	975	Failed	284272	46.842
Fluorene	10.319	975	Identified	912159	48.080
4-Nitroaniline	10.387	982	Identified	781814	55.421
4,6-Dinitro-2-methylphenol	10.420	985	Identified	1.345E6	68.215
N-Nitrosodiphenylamine	10.510	995	Identified	506510	48.762
Azobenzene	10.561	1000	Identified	684859	46.750
2,4,6-Tribromophenol	10.694	1014	Identified	1.283E6	49.611
4-Bromophenyl phenyl ether	11.059	1052	Identified	373126	46.799
Hexachlorobenzene	11.150	1062	Identified	402295	46.593
Pentachlorophenol	11.464	1095	Identified	1.363E6	60.675
Phenanthrene	11.777	1127	Identified	737364	49.117
Anthracene	11.854	1135	Identified	760665	50.061
Carbazole	12.119	1163	Identified	716814	48.395
Di-n-butyl phthalate	12.621	1215	Identified	1.504E6	47.807
Fluoranthene	13.583	1316	Identified	697029	47.939
Benzidine	13.815	1340	Identified	272206	31.157
Pyrene	13.929	1352	Identified	704940	51.931
4-Terphenyl-d14	14.162	1376	Identified	912838	47.131
Butyl benzyl phthalate	14.899	1452	Identified	791477	51.564
3,3'-Dichlorobenzidine	15.725	1538	Identified	1.597E6	50.883

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.742	1539	Identified	1.407E6	47.999
Bis(2-ethylhexyl)phthalate	15.739	1539	Identified	814758	42.427
Chrysene	15.797	1545	Identified	1.741E6	51.641
Di-n-octyl phthalate	16.671	1635	Identified	2.080E6	53.864
Benzo(b)fluoranthene	17.295	1699	Identified	1.476E6	49.233
Benzo[k]fluoranthene	17.335	1703	Identified	1.490E6	49.517
Benzo[a]pyrene	17.812	1751	Identified	1.430E6	50.438
Indeno[1,2,3-cd]pyrene	19.946	1969	Identified	913664	50.564
Dibenz[a,h]anthracene	19.983	1973	Identified	728570	48.403
Benzo[g,h,i]perylene	20.575	2034	Identified	850557	48.351

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Revision Log
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9/8/2014 10:25 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccvb	189625	5.18	614061	6.90	290805	9.49	533318	11.74	567262	15.76	724958	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 9/9/14

9.9.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\090814\50ppm ccvb.SMS Lab Sample ID: 50ppm ccvb

Instrument ID: ELMO Date Analyzed: 9/8/2014 Time Analyzed: 10:32

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	189625	5.18	614061	6.90	290805	9.49	533318	11.74	567262	15.76	724958	17.91
UPPER LIMIT	379250	5.68	1.228E6	7.40	581610	9.99	1.067E6	12.24	1.135E6	16.26	1.450E6	18.41
LOWER LIMIT	94813	4.68	307031	6.40	145403	8.99	266659	11.24	283631	15.26	362479	17.41
EPA SAMPLE NO												
50ppm ccv	213158	5.17	679716	6.90	291680	9.49	624472	11.74	647475	15.76	829049	17.91
mb-15158	103902	5.18	337813	6.90	162586	9.49	307439	11.74	369531	15.76	368042	17.91
lcs-15158	113898	5.18	348888	6.90	161404	9.49	323245	11.74	411386	15.75	416185	17.90
1409219-00	112545	5.18	374379	6.90	177577	9.50	348739	11.75	408613	15.76	456095	17.91
1409219-00	106026	5.17	365037	6.89	159400	9.49	317270	11.74	330669	15.75	375787	17.90
1409219-00	93954 *	5.18	310300	6.90	137362 *	9.50	285084	11.75	321337	15.76	347504 *	17.91
1409219-00	94854	5.18	312879	6.90	140071 *	9.49	310410	11.74	366763	15.75	420157	17.91
1409219-00	94994	5.18	309102	6.90	141388 *	9.49	307933	11.74	342827	15.75	422433	17.91
1409219-00	105013	5.19	347741	6.91	168424	9.50	339587	11.75	405049	15.77	496552	17.92
1409219-00	94104 *	5.18	311139	6.90	147760	9.50	305393	11.74	357301	15.76	392819	17.91
1409219-00	89144 *	5.18	303149 *	6.90	149733	9.50	275852	11.75	297705	15.76	336800 *	17.91
1409275-00	64042 D	5.19 D	280240 D	6.92 D	180195	9.51	308705	11.75	359505	15.76	382016	17.91
1409275-00	86585 D	5.18 D	327544 D	6.91 D	168291	9.50	301105	11.74	333536	15.76	348151 *	17.91
1409275-00	81646 *	5.18	266780 *	6.90	119569 *	9.49	232346 *	11.74	268716 *	15.75	308284 *	17.91
1409275-00	88276 *	5.18	300541 *	6.91	140658 *	9.50	257260 *	11.75	294430	15.76	327692 *	17.92
1409275-00	88831 *	5.18	296892 *	6.90	132547 *	9.50	253267 *	11.75	281330 *	15.76	323998 *	17.91
1409275-01	80038 *	5.18	282658 *	6.90	131039 *	9.49	226197 *	11.74	264564 *	15.75	316112 *	17.90

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	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1409219-00	90756 *	5.18	313097	6.90	155077	9.50	292206	11.74	327054	15.76	387554	17.91
1409275-01	97988	5.18	319960	6.90	154392	9.49	290073	11.74	326237	15.75	382498	17.90
1409275-00	74516 *	5.18	255330 *	6.89	114886 *	9.49	208638 *	11.74	244379 *	15.75	300794 *	17.90
1409219-00	68072 *	5.18	274560 D	6.90 D	144525 *	9.50	233370 *	11.74	242162 *	15.76	290451 *	17.90
1409219-00	81899 *	5.18	279110 *	6.90	125523 *	9.50	231611 *	11.74	252223 *	15.76	325431 *	17.91
1409275-00	75835 *	5.18	263106 *	6.90	121603 *	9.50	232734 *	11.74	264335 *	15.76	321877 *	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

* NMR

dam 9/9/14

9.9.14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/8/2014 Time: 10:32

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccvb.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.366	0.050	50.00	55.85	-11.7	40.0	PASS	PASS
Pyridine	10.780	0.050	50.00	59.43	-18.9	40.0	PASS	PASS
2-Fluorophenol	1.127	0.050	50.00	49.11	1.8	40.0	PASS	PASS
Phenol-d5	1.133	0.050	50.00	51.87	-3.7	40.0	PASS	PASS
Phenol	1.147	0.050	50.00	46.73	6.5	20.0	PASS	PASS
Aniline	3.160	0.050	50.00	38.61	22.8	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.881	0.050	50.00	46.66	6.7	40.0	PASS	PASS
2-Chlorophenol	1.190	0.050	50.00	49.73	0.5	40.0	PASS	PASS
1,3-Dichlorobenzene	1.445	0.050	50.00	47.90	4.2	40.0	PASS	PASS
1,4-Dichlorobenzene	1.410	0.050	50.00	49.40	1.2	20.0	PASS	PASS
Benzyl alcohol	1.100	0.050	50.00	49.01	2.0	40.0	PASS	PASS
1,2-Dichlorobenzene	1.471	0.050	50.00	52.34	-4.7	40.0	PASS	PASS
2-Methylphenol	0.955	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.283	0.050	50.00	45.63	8.7	40.0	PASS	PASS
3+4-Methylphenol	1.035	0.050	50.00	42.01	16.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.342	0.050	50.00	47.20	5.6	40.0	PASS	PASS
Hexachloroethane	4.693	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Nitrobenzene-d5	0.292	0.050	50.00	47.33	5.3	40.0	PASS	PASS
Nitrobenzene	0.306	0.050	50.00	48.22	3.6	40.0	PASS	PASS
Isophorone	0.609	0.050	50.00	52.05	-4.1	40.0	PASS	PASS
2-Nitrophenol	0.317	0.050	50.00	51.16	-2.3	20.0	PASS	PASS
2,4-Dimethylphenol	0.342	0.050	50.00	46.81	6.4	40.0	PASS	PASS
Benzoic acid	2.591	0.050	50.00	58.70	-17.4	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.375	0.050	50.00	51.73	-3.5	40.0	PASS	PASS
2,4-Dichlorophenol	0.339	0.050	50.00	48.02	4.0	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.329	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
Naphthalene	0.842	0.050	50.00	50.74	-1.5	40.0	PASS	PASS
4-Chloroaniline	0.377	0.050	50.00	48.80	2.4	40.0	PASS	PASS
Hexachlorobutadiene	0.633	0.050	50.00	47.56	4.9	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.424	0.050	50.00	50.61	-1.2	20.0	PASS	PASS
2-Methylnaphthalene	0.231	0.050	50.00	45.84	8.3	40.0	PASS	PASS
1-Methylnaphthalene	0.238	0.050	50.00	46.33	7.3	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.413	0.050	50.00	41.12	17.8	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.325	0.050	50.00	45.32	9.4	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.307	0.050	50.00	46.14	7.7	40.0	PASS	PASS
2-Fluorobiphenyl	1.448	0.050	50.00	47.24	5.5	40.0	PASS	PASS

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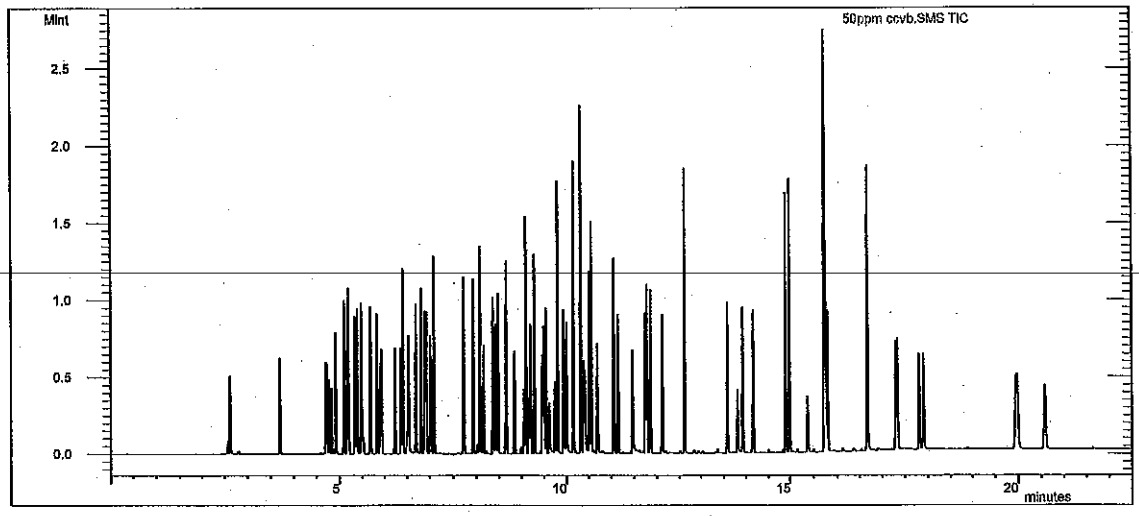
Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.560	0.050	50.00	49.83	0.3	40.0	PASS	PASS
2-Nitroaniline	1.068	0.050	50.00	47.89	4.2	40.0	PASS	PASS
Dimethyl phthalate	2.970	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
2,6-Dinitrotoluene	0.673	0.050	50.00	48.78	2.4	40.0	PASS	PASS
Acenaphthylene	1.834	0.050	50.00	47.06	5.9	40.0	PASS	PASS
3-Nitroaniline	1.025	0.050	50.00	47.10	5.8	40.0	PASS	PASS
Acenaphthene	1.219	0.050	50.00	48.25	3.5	20.0	PASS	PASS
2,4-Dinitrophenol	2.786	0.050	50.00	64.96	-29.9	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.29	-2.6	40.0	PASS	PASS
Dibenzofuran	0.789	0.050	50.00	42.97	14.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.331	0.050	50.00	44.78	10.4	40.0	PASS	PASS
Diethyl phthalate	2.351	0.050	50.00	46.46	7.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.713	0.050	50.00	42.70	14.6	40.0	PASS	PASS
Fluorene	2.292	0.050	50.00	44.14	11.7	40.0	PASS	PASS
4-Nitroaniline	1.837	0.050	50.00	47.57	4.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.728	0.050	50.00	68.38	-36.8	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.678	0.050	50.00	50.90	-1.8	20.0	PASS	PASS
Azobenzene	0.971	0.050	50.00	51.76	-3.5	40.0	PASS	PASS
2,4,6-Tribromophenol	1.727	0.050	50.00	52.10	-4.2	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.520	0.050	50.00	50.97	-1.9	40.0	PASS	PASS
Hexachlorobenzene	0.547	0.050	50.00	49.51	1.0	40.0	PASS	PASS
Pentachlorophenol	1.651	0.050	50.00	57.69	-15.4	20.0	PASS	PASS
Phenanthrene	0.974	0.050	50.00	50.64	-1.3	40.0	PASS	PASS
Anthracene	1.031	0.050	50.00	52.94	-5.9	40.0	PASS	PASS
Carbazole	0.906	0.050	50.00	47.75	4.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.060	0.050	50.00	51.28	-2.6	40.0	PASS	PASS
Fluoranthene	0.897	0.050	50.00	48.15	3.7	20.0	PASS	PASS
Benzidine	0.344	0.050	50.00	31.84	36.3	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.30	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.195	0.050	50.00	49.80	0.4	40.0	PASS	PASS
Butyl benzyl phthalate	0.950	0.050	50.00	50.09	-0.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.975	0.050	50.00	50.91	-1.8	40.0	PASS	PASS
Benz[a]anthracene	1.640	0.050	50.00	45.36	9.3	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.948	0.050	50.00	40.02	20.0	40.0	PASS	PASS
Chrysene	2.011	0.050	50.00	48.47	3.1	40.0	PASS	PASS
Di-n-octyl phthalate	2.538	0.050	50.00	53.22	-6.4	20.0	PASS	PASS
Benzo(b)fluoranthene	1.313	0.050	50.00	45.45	9.1	40.0	PASS	PASS
Benzo[k]fluoranthene	1.395	0.050	50.00	48.05	3.9	40.0	PASS	PASS
Benzo[a]pyrene	1.345	0.050	50.00	49.21	1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.845	0.050	50.00	48.61	2.8	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.669	0.050	50.00	46.08	7.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.835	0.050	50.00	49.19	1.6	40.0	PASS	PASS

dam 9/9/14

9.9.14

8270C Report

Sample Name:	50ppm ccvb	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	9/8/2014 10:32:38 AM
Calculation Date:	9/8/2014 10:55:08 AM				



dam 9/9/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.176	438	Identified	189625	40.000
Naphthalene-d8 (I.S)	6.897	618	Identified	614061	40.000
Acenaphthene-d10 (I.S)	9.494	891	Identified	290805	40.000
Phenanthrene-d10	11.742	1126	Identified	533318	40.000
Chrysene-d12 I.S	15.761	1548	Identified	567262	40.000
Perylene-d12 I.S	17.909	1770	Identified	724958	40.000
N-nitrosodimethylamine	2.585	163	Identified	797858	55.851
Pyridine	2.630	168	Identified	2.555E6	59.434
2-Fluorophenol	3.699	282	Identified	267070	49.111
Phenol-d5	4.705	389	Identified	268525	51.869
Phenol	4.721	391	Identified	271900	46.726
Aniline	4.775	396	Identified	749078	38.612
Bis(2-chloroethyl)ether	4.830	402	Identified	445963	46.662
2-Chlorophenol	4.918	411	Identified	282021	49.728
1,3-Dichlorobenzene	5.106	431	Identified	342420	47.897
1,4-Dichlorobenzene	5.196	440	Identified	334223	49.400
Benzyl alcohol	5.340	455	Identified	260676	49.008
1,2-Dichlorobenzene	5.394	461	Identified	348656	52.338
2-Methylphenol	5.480	470	Identified	226307	48.917
Bis(2-chloroisopropyl)ether	5.499	472	Identified	304177	45.631
3+4-Methylphenol	5.684	491	Identified	245308	42.014
N-Nitrosodi-n-propylamine	5.674	490	Identified	792224	47.200
Hexachloroethane	5.831	507	Identified	1.112E6	50.652
Nitrobenzene-d5	5.905	515	Identified	224174	47.331

9.9.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.930	517	Identified	234834	48.218
Isophorone	6.236	550	Identified	467822	52.046
2-Nitrophenol	6.363	563	Identified	243674	51.157
2,4-Dimethylphenol	6.411	568	Identified	262266	46.811
Benzoic acid	6.519	579	Identified	1.989E6	58.698
Bis(2-chloroethoxy)methane	6.539	581	Identified	287463	51.727
2,4-Dichlorophenol	6.699	598	Identified	260543	48.024
1,2,4-Trichlorobenzene	6.813	610	Identified	252386	50.300
Naphthalene	6.929	622	Identified	646599	50.737
4-Chloroaniline	7.017	631	Identified	289760	48.797
Hexachlorobutadiene	7.087	638	Identified	485546	47.558
4-Chloro-3-methylphenol	7.728	706	Identified	325602	50.608
2-Methylnaphthalene	7.933	728	Identified	177258	45.839
1-Methylnaphthalene	8.079	743	Identified	182421	46.329
Hexachlorocyclopentadiene	8.155	751	Identified	316862	41.120
2,4,6-Trichlorophenol	8.362	773	Identified	117985	45.321
2,4,5-Trichlorophenol	8.418	779	Identified	111444	46.135
2-Fluorobiphenyl	8.478	785	Identified	526441	47.244
2-Chloronaphthalene	8.660	804	Identified	566899	49.831
2-Nitroaniline	8.838	823	Identified	388268	47.886
Dimethyl phthalate	9.094	849	Identified	1.080E6	51.612
2,6-Dinitrotoluene	9.200	860	Identified	244729	48.782
Acenaphthylene	9.283	869	Identified	666655	47.060
3-Nitroaniline	9.459	888	Identified	372591	47.096
Acenaphthene	9.544	897	Identified	443133	48.249
2,4-Dinitrophenol	9.611	904	Identified	1.013E6	64.956
4-Nitrophenol	9.740	917	Identified	72082	51.288
Dibenzofuran	9.802	923	Identified	286970	42.967
2,4-Dinitrotoluene	9.805	924	Identified	120155	44.775
Diethyl phthalate	10.152	960	Identified	854436	46.464
4-Chlorophenyl phenyl ether	10.318	977	Identified	259284	42.696
Fluorene	10.320	977	Identified	833299	44.137
4-Nitroaniline	10.387	984	Identified	667650	47.570
4,6-Dinitro-2-methylphenol	10.419	988	Identified	1.152E6	68.384
N-Nitrosodiphenylamine	10.509	997	Identified	452175	50.900
Azobenzene	10.560	1002	Identified	647091	51.762
2,4,6-Tribromophenol	10.694	1016	Identified	1.151E6	52.105
4-Bromophenyl phenyl ether	11.060	1055	Identified	346852	50.970
Hexachlorobenzene	11.149	1064	Identified	364853	49.511
Pentachlorophenol	11.464	1097	Identified	1.101E6	57.690
Phenanthrene	11.778	1130	Identified	649220	50.639
Anthracene	11.854	1138	Identified	687237	52.939
Carbazole	12.120	1166	Identified	603918	47.746
Di-n-butyl phthalate	12.620	1218	Identified	1.373E6	51.280
Fluoranthene	13.584	1320	Identified	597930	48.150
Benzidine	13.814	1344	Identified	244089	31.838
Pyrene	13.930	1356	Identified	595597	50.297
4-Terphenyl-d14	14.164	1380	Identified	847462	49.803
Butyl benzyl phthalate	14.902	1458	Identified	673467	50.093
3,3'-Dichlorobenzidine	15.730	1545	Identified	1.400E6	50.913

****

Varian Star Workstation - 8400 SampleList Tue Sep 09 13:23:53 2014

SampleList: C:\VarianWS\090914.smp

Created: Tue Sep 09 08:47:36 2014
Modified: Tue Sep 09 13:23:22 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm ll ccv	1	below	1	1.0
	Notes sv110-0562				
3	40ppm ccv	1	below	2	1.0
	Notes sv110-0593				
4	40ppm ccvb	1	below	2	1.0
	Notes sv110-0593				
5	1409219-009a	1	below	3	1.0
	Notes x1 soil				
6	1409219-004a	1	below	4	1.0
	Notes x1 soil				
7	1409275-002a	1	below	5	1.0
	Notes x1 soil				
8	1409275-001a	1	below	6	1.0
	Notes r10 soil				
9					
10	mb-15163	1	below	7	1.0
	Notes x1 soil ll				
11	lcs-15163	1	below	8	1.0
	Notes x1 soil ll				
12	1409275-007a	1	below	9	1.0
	Notes x1 soil ll				
13	1409275-007ams	1	below	10	1.0
	Notes x1 soil ll				
14	1409275-007amsd	1	below	11	1.0
	Notes x1 soil ll				
15	1409275-008a	1	below	12	1.0
	Notes x1 soil ll				
16					
17	mb-15185	1	below	13	1.0
	Notes x1 AQ				
18	lcs-15185	1	below	14	1.0
	Notes x1 AQ				
19	lcsd-15185	1	below	15	1.0
	Notes x1 AQ				
20	1409143-001e	1	below	16	1.0
	Notes x1 AQ				
21	1409143-002e	1	below	17	1.0
	Notes x1 AQ				
22					

dam 9/10/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

JC 9.10.14

Create and update a new RecalcList: c:\varianws\090914.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

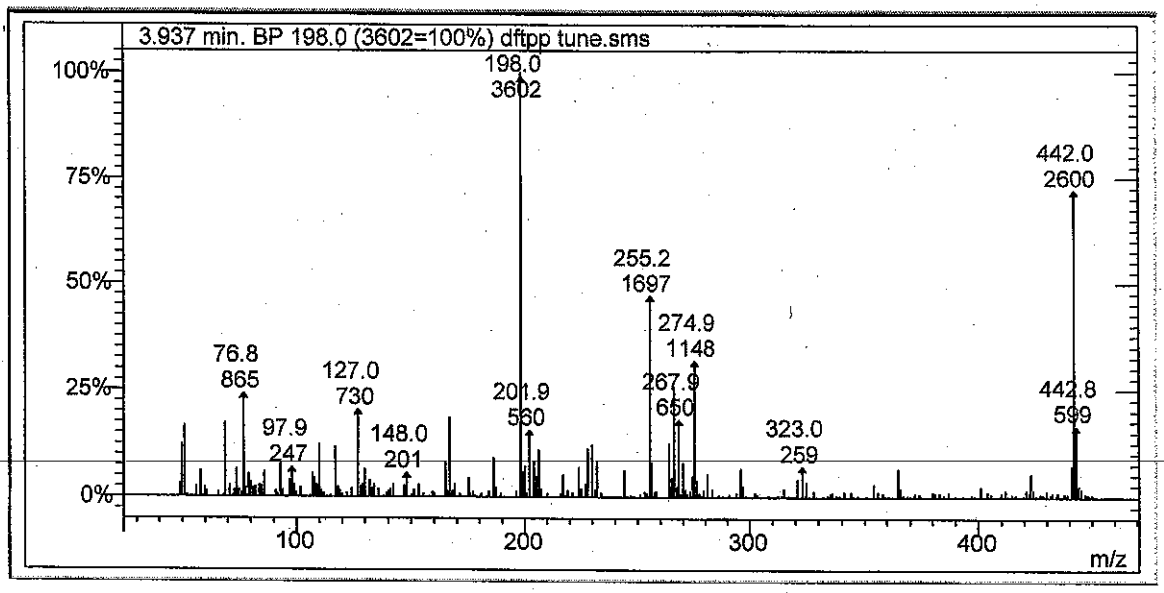
Analyst: David

QA: John Caldwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: JMC and JW.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/9/2014

Injection Time: 11:29

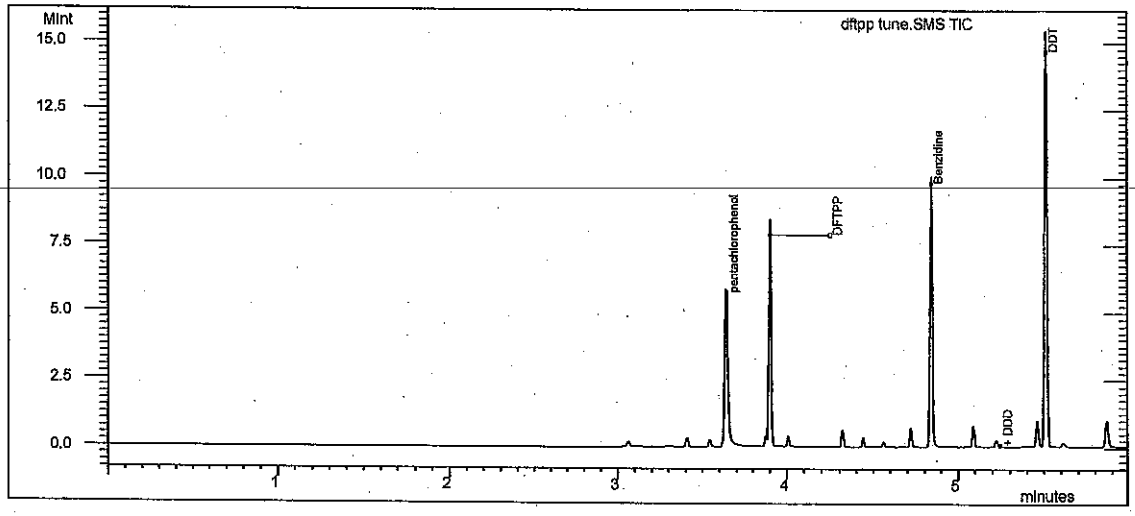
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	16.60	PASS
68	<2% of m/z 69	1.94	PASS
69	Present	17.13	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	20.27	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.94	PASS
275	10-60% of base peak	31.87	PASS
365	>1% of base peak	6.61	PASS
441	Present and <m/z 443	44.24	PASS
442	>50% of m/z 198	72.18	PASS
443	15-24% of m/z 442	23.04	PASS

dkm 9/10/14

JV 9/10/14

Degradation Report

Acquisition Date:	9/9/2014 11:29:37 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.512	3.999E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.245	8162	5
DDE	4.963	1193	6

% Degradation of DDT: = .233

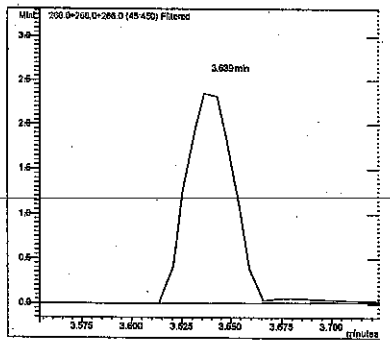
dam 9/10/14

JC 9-10-14

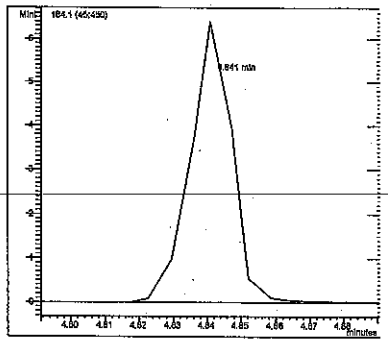
Tailing and Gaussian Factor Report

Acquisition Date: 9/9/2014 11:29:37 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.639 Area = 4.002E6



Benzidine
RT = 4.841 Area = 5.423E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.639	1.570	0.888
Benzidine	4.841	0.790	0.985

dhm 9/10/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.639	4.002E6
3	Benzidine	4.841	5.423E6

JC 9/10/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm ll c	171478	2.94	563724	4.27	235306	6.73	419871	9.02	381512	13.17	495172	15.40

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 9/10/14

JV 9.10.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\090914\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 9/9/2014 Time Analyzed: 11:42

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	171478	2.94	563724	4.27	235306	6.73	419871	9.02	381512	13.17	495172	15.40
UPPER LIMIT	342956	3.44	1.127E6	4.77	470612	7.23	839742	9.52	763024	13.67	990344	15.90
LOWER LIMIT	85739	2.44	281862	3.77	117653	6.23	209936	8.52	190756	12.67	247586	14.90
EPA SAMPLE NO												
mb-15163	101220	2.96	318143	4.28	137140	6.74	284218	9.03	300237	13.17	415935	15.40
lcs-15163	105325	2.95	346238	4.28	154311	6.73	298641	9.02	286234	13.16	408233	15.40
1409275-00	105836	2.96	352663	4.28	149746	6.73	290673	9.02	302190	13.17	431964	15.40
1409275-00	105255	2.96	354126	4.28	157962	6.74	318147	9.03	300471	13.17	427834	15.40
1409275-00	112698	2.95	362111	4.28	151077	6.74	304561	9.02	290790	13.17	435791	15.40
1409275-00	112085	2.95	371258	4.28	159075	6.74	321345	9.03	336298	13.17	473950	15.40

dam 9/10/14

JC 9-10-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm II ccv.sms **Acquisition Date:** 9/9/2014 11:42

Comment: sv110-0562

SampleID: 10ppm II ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.70	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.43	ng	10.00	94 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.34		10.00	93 %	80 - 120	PASS
6)	Acenaphthylene	9.57	ng	10.00	96 %	80 - 120	PASS
8)	Acenaphthene	9.56	ng	10.00	96 %	80 - 120	PASS
9)	n-hexadecane	65.77		67.50	97 %	80 - 120	PASS
10)	Fluorene	9.67	ng	10.00	97 %	80 - 120	PASS
12)	Phenanthrene	9.30	ng	10.00	93 %	80 - 120	PASS
13)	Anthracene	9.53	ng	10.00	95 %	80 - 120	PASS
14)	Fluoranthene	9.69	ng	10.00	97 %	80 - 120	PASS
15)	Pyrene	9.70	ng	10.00	97 %	80 - 120	PASS
16)	Benz[a]anthracene	9.35	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.47	ng	10.00	95 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.87	ng	10.00	99 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	10.25	ng	10.00	103 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.63		15.00	104 %	80 - 120	PASS
22)	Benzo[a]pyrene	10.13	ng	10.00	101 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.61	ng	10.00	96 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.29	ng	10.00	103 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.54	ng	10.00	95 %	80 - 120	PASS

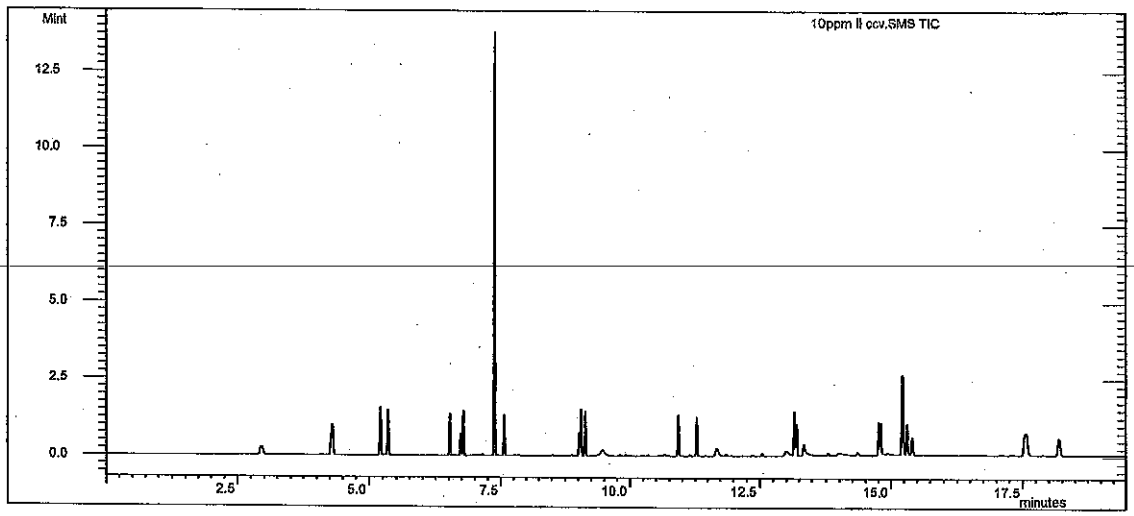
*, indicates Internal Standard.

dlm 9/10/14

JC 9.10.14

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	9/9/2014 11:42:48 AM
Calculation Date:	9/9/2014 12:02:18 PM				



dan 9/10/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.944	198	Identified	171478	5.000
Naphthalene-d8 (I.S)	4.274	337	Identified	563724	5.000
Acenaphthene-d10 (I.S)	6.734	594	Identified	235306	5.000
Phenanthrene-d10	9.021	833	Identified	419871	5.000
Chrysene-d12 I.S	13.167	1262	Identified	381512	5.000
Perylene-d12 I.S	15.401	1488	Identified	495172	5.000
Naphthalene	4.302	340	Identified	973339	9.696
2-Methylnaphthalene	5.205	434	Identified	634671	9.432
1-Methylnaphthalene	5.349	449	Identified	808627	9.339
Acenaphthylene	6.523	572	Identified	934429	9.566
Acenaphthene	6.785	599	Identified	1.103E6	9.555
n-hexadecane	7.377	661	Identified	3.185E6	65.768
Fluorene	7.567	680	Identified	1.215E6	9.669
Phenanthrene	9.057	837	Identified	827508	9.304
Anthracene	9.137	845	Identified	844212	9.529
Fluoranthene	10.922	1030	Identified	824015	9.693
Pyrene	11.278	1067	Identified	826304	9.701
Benz[a]anthracene	13.152	1260	Identified	1.210E6	9.350
Chrysene	13.208	1266	Identified	583059	9.472
Benzo(b)fluoranthene	14.760	1423	Identified	914239	9.874
Benzo[k]fluoranthene	14.802	1427	Identified	1.050E6	10.251
Benzo(e)pyrene	15.219	1469	Identified	2.340E6	15.632
Benzo[a]pyrene	15.303	1478	Identified	1.035E6	10.126
Indeno[1,2,3-cd]pyrene	17.541	1703	Identified	1.294E6	9.607

TC 9.12.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.575	1707	Identified	973275	10.288
Benzo[g,h,i]perylene	18.192	1769	Identified	1.056E6	9.538

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**********************************************************
Revision Log
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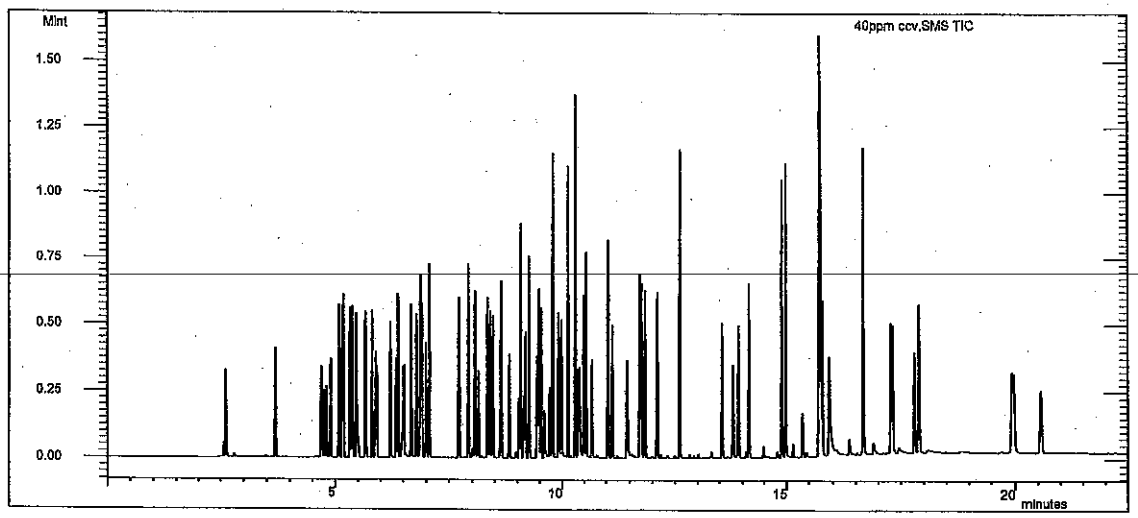
9/9/2014 12:02 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 033114.mth'
```

8270C Report

Sample Name:	40ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	9/9/2014 12:10:50 PM
Calculation Date:	9/9/2014 12:33:21 PM				



RR

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.158	438	Identified	130496	40.000
Naphthalene-d8 (I.S)	6.878	618	Identified	431768	40.000
Acenaphthene-d10 (I.S)	9.478	893	Identified	209214	40.000
Phenanthrene-d10	11.723	1128	Identified	383131	40.000
Chrysene-d12 I.S	15.742	1551	Identified	428794	40.000
Perylene-d12 I.S	17.893	1773	Identified	535797	40.000
N-nitrosodimethylamine	2.574	162	Identified	544683	55.308
Pyridine	2.620	167	Identified	1.654E6	55.747
2-Fluorophenol	3.686	281	Identified	154553	41.286
Phenol-d5	4.686	388	Identified	146428	41.179
Phenol	4.703	390	Identified	156472	38.957
Aniline	4.759	396	Identified	443476	33.257
Bis(2-chloroethyl)ether	4.811	401	Identified	257987	38.781
2-Chlorophenol	4.902	411	Identified	149990	38.447
1,3-Dichlorobenzene	5.087	430	Identified	197645	40.003
1,4-Dichlorobenzene	5.180	440	Identified	193889	41.532
Benzyl alcohol	5.322	455	Identified	152272	41.220
1,2-Dichlorobenzene	5.374	460	Identified	190054	41.228
2-Methylphenol	5.460	469	Identified	129548	40.654
Bis(2-chloroisopropyl)ether	5.480	471	Identified	176305	38.478
3+4-Methylphenol	5.665	491	Identified	151224	37.332
N-Nitrosodi-n-propylamine	5.657	490	Identified	476370	41.187
Hexachloroethane	5.812	506	Identified	631000	41.716
Nitrobenzene-d5	5.886	514	Identified	134511	40.096

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.913	516	Identified	138279	39.987
Isophorone	6.217	549	Identified	283697	44.859
2-Nitrophenol	6.347	563	Identified	136371	40.630
2,4-Dimethylphenol	6.392	567	Identified	158903	40.298
Benzoic acid	6.492	578	Identified	1.103E6	47.850
Bis(2-chloroethoxy)methane	6.521	581	Identified	168341	43.105
2,4-Dichlorophenol	6.679	597	Identified	158484	41.567
1,2,4-Trichlorobenzene	6.795	609	Identified	140456	39.625
Naphthalene	6.909	621	Identified	384575	42.881
4-Chloroaniline	6.998	631	Identified	160439	38.853
Hexachlorobutadiene	7.069	638	Identified	292411	40.680
4-Chloro-3-methylphenol	7.709	707	Identified	184724	40.829
2-Methylnaphthalene	7.913	728	Identified	105246	38.662
1-Methylnaphthalene	8.063	744	Identified	106425	38.392
Hexachlorocyclopentadiene	8.138	752	Identified	177116	32.547
2,4,6-Trichlorophenol	8.343	773	Identified	69729	37.415
2,4,5-Trichlorophenol	8.399	779	Identified	59290	34.200
2-Fluorobiphenyl	8.460	785	Identified	300796	37.722
2-Chloronaphthalene	8.642	805	Identified	317014	38.818
2-Nitroaniline	8.819	824	Identified	222463	38.135
Dimethyl phthalate	9.076	851	Identified	611378	40.566
2,6-Dinitrotoluene	9.181	862	Identified	139292	38.620
Acenaphthylene	9.265	870	Identified	393597	38.638
3-Nitroaniline	9.441	889	Identified	213359	37.548
Acenaphthene	9.526	898	Identified	259381	39.259
2,4-Dinitrophenol	9.593	905	Identified	593154	55.151
4-Nitrophenol	9.756	922	Failed	82	1.248
Dibenzofuran	9.786	925	Identified	172160	35.887
2,4-Dinitrotoluene	9.787	925	Identified	71048	36.770
Diethyl phthalate	10.133	961	Identified	505701	37.673
4-Chlorophenyl phenyl ether	10.301	979	Identified	147858	33.461
Fluorene	10.302	979	Identified	497615	36.778
4-Nitroaniline	10.366	985	Identified	397692	39.506
4,6-Dinitro-2-methylphenol	10.400	989	Identified	663256	57.315
N-Nitrosodiphenylamine	10.490	998	Identified	250400	39.575
Azobenzene	10.543	1004	Identified	370608	41.191
2,4,6-Tribromophenol	10.675	1018	Identified	678767	42.850
4-Bromophenyl phenyl ether	11.040	1056	Identified	199703	40.781
Hexachlorobenzene	11.131	1066	Identified	211747	39.900
Pentachlorophenol	11.444	1099	Identified	650152	48.351
Phenanthrene	11.759	1132	Identified	394616	42.838
Anthracene	11.836	1140	Identified	403616	43.340
Carbazole	12.101	1168	Identified	368205	40.567
Di-n-butyl phthalate	12.603	1221	Identified	847491	43.727
Fluoranthene	13.564	1322	Identified	351670	39.493
Benzidine	13.798	1347	Identified	209083	35.763
Pyrene	13.912	1359	Identified	341714	39.352
4-Terphenyl-d14	14.146	1383	Identified	511777	40.222
Butyl benzyl phthalate	14.886	1461	Identified	431209	42.503
3,3'-Dichlorobenzidine	15.711	1548	Identified	789610	39.776

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.727	1549	Identified	706930	36.836
Bis(2-ethylhexyl)phthalate	15.727	1549	Identified	416697	33.047
Chrysene	15.782	1555	Identified	837938	38.244
Di-n-octyl phthalate	16.659	1646	Identified	1.069E6	42.450
Benzo(b)fluoranthene	17.280	1710	Identified	818297	42.322
Benzo[k]fluoranthene	17.355	1718	Identified	25	0.731
Benzo[a]pyrene	17.796	1763	Identified	764351	42.048
Indeno[1,2,3-cd]pyrene	19.931	1984	Identified	467248	40.705
Dibenz[a,h]anthracene	19.970	1988	Identified	412536	42.495
Benzo[g,h,i]perylene	20.558	2048	Identified	450685	39.838

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Revision Log
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9/9/2014 12:33 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270_042514.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
40ppm ccvb	122888	5.16	431252	6.88	211377	9.48	364604	11.73	414557	15.75	512656	17.89

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dkm 9/10/14

JC 9-12-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\090914\40ppm ccvb.SMS Lab Sample ID: 40ppm ccvb

Instrument ID: ELMO Date Analyzed: 9/9/2014 Time Analyzed: 12:45

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	122888	5.16	431252	6.88	211377	9.48	364604	11.73	414557	15.75	512656	17.89
UPPER LIMIT	245776	5.66	862504	7.38	422754	9.98	729208	12.23	829114	16.25	1.025E6	18.39
LOWER LIMIT	61444	4.66	215626	6.38	105689	8.98	182302	11.23	207279	15.25	256328	17.39
EPA SAMPLE NO												
40ppm ccv	130496	5.16	431768	6.88	209214	9.48	383131	11.72	428794	15.74	535797	17.89
1409219-00	79270	5.16	293330 D	6.88 D	162285	9.48	275649	11.72	310328	15.74	347546	17.89
1409219-00	87393	5.16	281549	6.88	115062	9.48	236650	11.72	288486	15.74	325567	17.89
1409275-00	84801	5.17	291043	6.89	123472	9.48	240529	11.73	281344	15.75	325855	17.90
1409275-00	86259	5.16	318067 D	6.89 D	148370	9.48	273329	11.73	289952	15.74	330777	17.89
mb-15185	85187	5.16	300088	6.88	126773	9.48	266572	11.72	319417	15.74	345738	17.89
lcs-15185	90146	5.16	301255	6.88	138378	9.48	258626	11.73	313746	15.74	354532	17.89
lcsd-15185	86516	5.16	272572	6.88	120477	9.48	243703	11.73	289210	15.74	345499	17.89
1409143-00	75677	5.16	261232	6.88	120871	9.48	225569	11.72	279899	15.74	323763	17.89
1409143-00	80582	5.16	267676	6.88	116779	9.47	248313	11.72	295955	15.74	357222	17.89

dam 9/10/14

9.12.14

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 9/9/2014 Time: 12:45

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\40ppm ccvb.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	4.357	0.050	40.00	58.28	-45.7	40.0	FAIL	PASS
Pyridine	12.670	0.050	40.00	55.71	-39.3	40.0	PASS	PASS
2-Fluorophenol	1.236	0.050	40.00	43.10	-7.7	40.0	PASS	PASS
Phenol-d5	1.107	0.050	40.00	40.62	-1.6	40.0	PASS	PASS
Phenol	1.263	0.050	40.00	41.06	-2.6	20.0	PASS	PASS
Aniline	3.550	0.050	40.00	34.72	13.2	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.116	0.050	40.00	41.69	-4.2	40.0	PASS	PASS
2-Chlorophenol	1.264	0.050	40.00	42.28	-5.7	40.0	PASS	PASS
1,3-Dichlorobenzene	1.506	0.050	40.00	39.78	0.5	40.0	PASS	PASS
1,4-Dichlorobenzene	1.559	0.050	40.00	43.60	-9.0	20.0	PASS	PASS
Benzyl alcohol	1.171	0.050	40.00	41.38	-3.5	40.0	PASS	PASS
1,2-Dichlorobenzene	1.517	0.050	40.00	42.98	-7.4	40.0	PASS	PASS
2-Methylphenol	1.047	0.050	40.00	42.87	-7.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.458	0.050	40.00	41.50	-3.8	40.0	PASS	PASS
3+4-Methylphenol	1.201	0.050	40.00	38.80	3.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.729	0.050	40.00	42.09	-5.2	40.0	PASS	PASS
Hexachloroethane	5.001	0.050	40.00	43.15	-7.9	40.0	PASS	PASS
Nitrobenzene-d5	0.306	0.050	40.00	39.33	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	40.00	39.64	0.9	40.0	PASS	PASS
Isophorone	0.631	0.050	40.00	43.07	-7.7	40.0	PASS	PASS
2-Nitrophenol	0.317	0.050	40.00	40.83	-2.1	20.0	PASS	PASS
2,4-Dimethylphenol	0.376	0.050	40.00	41.13	-2.8	40.0	PASS	PASS
Benzoic acid	2.424	0.050	40.00	45.74	-14.3	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.390	0.050	40.00	43.11	-7.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.356	0.050	40.00	40.33	-0.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.328	0.050	40.00	39.96	0.1	40.0	PASS	PASS
Naphthalene	0.878	0.050	40.00	42.25	-5.6	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	40.00	39.53	1.2	40.0	PASS	PASS
Hexachlorobutadiene	0.654	0.050	40.00	39.30	1.8	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.463	0.050	40.00	44.19	-10.5	20.0	PASS	PASS
2-Methylnaphthalene	0.247	0.050	40.00	39.13	2.2	40.0	PASS	PASS
1-Methylnaphthalene	0.255	0.050	40.00	39.78	0.6	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.415	0.050	40.00	32.94	17.6	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.334	0.050	40.00	37.48	6.3	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.294	0.050	40.00	35.51	11.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.487	0.050	40.00	38.99	2.5	40.0	PASS	PASS

RR hits

dlm 9/10/14

JC 9-10-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.539	0.050	40.00	39.42	1.5	40.0	PASS	PASS
2-Nitroaniline	1.012	0.050	40.00	36.29	9.3	40.0	PASS	PASS
Dimethyl phthalate	2.762	0.050	40.00	38.33	4.2	40.0	PASS	PASS
2,6-Dinitrotoluene	0.657	0.050	40.00	38.13	4.7	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	40.00	37.48	6.3	40.0	PASS	PASS
3-Nitroaniline	0.992	0.050	40.00	36.52	8.7	40.0	PASS	PASS
Acenaphthene	1.224	0.050	40.00	38.75	3.1	20.0	PASS	PASS
2,4-Dinitrophenol	2.560	0.050	40.00	50.78	-26.9	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	40.00	41.30	-3.3	40.0	PASS	PASS
Dibenzofuran	0.782	0.050	40.00	34.12	14.7	40.0	PASS	PASS
2,4-Dinitrotoluene	0.337	0.050	40.00	36.45	8.9	40.0	PASS	PASS
Diethyl phthalate	2.265	0.050	40.00	35.15	12.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.689	0.050	40.00	32.58	18.6	40.0	PASS	PASS
Fluorene	2.342	0.050	40.00	36.23	9.4	40.0	PASS	PASS
4-Nitroaniline	1.770	0.050	40.00	36.84	7.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.733	0.050	40.00	57.36	-43.4	40.0	FAIL	PASS
N-Nitrosodiphenylamine	0.727	0.050	40.00	43.88	-9.7	20.0	PASS	PASS
Azobenzene	1.011	0.050	40.00	43.05	-7.6	40.0	PASS	PASS
2,4,6-Tribromophenol	1.812	0.050	40.00	43.81	-9.5	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.535	0.050	40.00	41.88	-4.7	40.0	PASS	PASS
Hexachlorobenzene	0.568	0.050	40.00	41.03	-2.6	40.0	PASS	PASS
Pentachlorophenol	1.626	0.050	40.00	46.52	-16.3	20.0	PASS	PASS
Phenanthrene	1.038	0.050	40.00	43.18	-8.0	40.0	PASS	PASS
Anthracene	1.105	0.050	40.00	45.43	-13.6	40.0	PASS	PASS
Carbazole	0.997	0.050	40.00	42.07	-5.2	40.0	PASS	PASS
Di-n-butyl phthalate	2.269	0.050	40.00	44.91	-12.3	40.0	PASS	PASS
Fluoranthene	0.903	0.050	40.00	38.88	2.8	20.0	PASS	PASS
Benzidine	0.395	0.050	40.00	29.39	26.5	40.0	PASS	PASS
Pyrene	0.801	0.050	40.00	39.55	1.1	40.0	PASS	PASS
4-Terphenyl-d14	1.137	0.050	40.00	38.40	4.0	40.0	PASS	PASS
Butyl benzyl phthalate	0.988	0.050	40.00	41.78	-4.4	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.857	0.050	40.00	40.07	-0.2	40.0	PASS	PASS
Benz[a]anthracene	1.556	0.050	40.00	34.88	12.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.965	0.050	40.00	32.81	18.0	40.0	PASS	PASS
Chrysene	1.918	0.050	40.00	37.58	6.0	40.0	PASS	PASS
Di-n-octyl phthalate	2.567	0.050	40.00	43.62	-9.0	20.0	PASS	PASS
Benzo(b)fluoranthene	1.510	0.050	40.00	41.86	-4.6	40.0	PASS	PASS
Benzo[k]fluoranthene	1.512	0.050	40.00	41.75	-4.4	40.0	PASS	PASS
Benzo[a]pyrene	1.411	0.050	40.00	41.62	-4.0	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.862	0.050	40.00	40.25	-0.6	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.730	0.050	40.00	40.31	-0.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.829	0.050	40.00	39.26	1.8	40.0	PASS	PASS

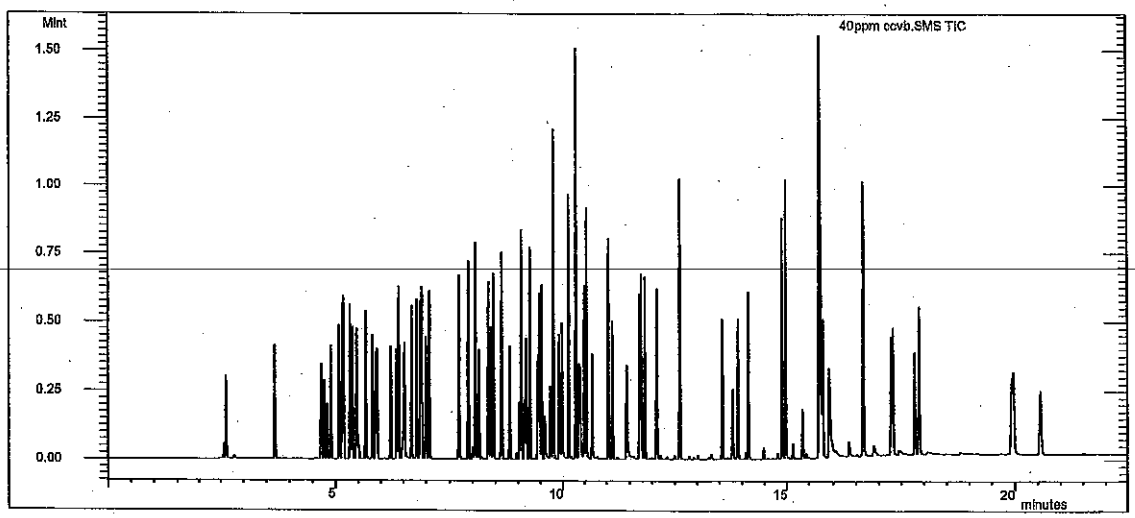
4 RR hits

dam 9/10/14

JC 9.10.14

8270C Report

Sample Name:	40ppm ccvb	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	9/9/2014 12:45:18 PM
Calculation Date:	9/9/2014 1:07:48 PM				



dam
9/10/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.161	438	Identified	122888	40.000
Naphthalene-d8 (I.S)	6.881	619	Identified	431252	40.000
Acenaphthene-d10 (I.S)	9.479	893	Identified	211377	40.000
Phenanthrene-d10	11.725	1128	Identified	364604	40.000
Chrysene-d12 I.S	15.746	1553	Identified	414557	40.000
Perylene-d12 I.S	17.893	1775	Identified	512656	40.000
N-nitrosodimethylamine	2.575	162	Identified	535367	58.280
Pyridine	2.620	167	Identified	1.557E6	55.713
2-Fluorophenol	3.687	281	Identified	151916	43.098
Phenol-d5	4.688	388	Identified	136013	40.622
Phenol	4.704	390	Identified	155197	41.060
Aniline	4.760	396	Identified	436228	34.723
Bis(2-chloroethyl)ether	4.815	402	Identified	260053	41.690
2-Chlorophenol	4.903	411	Identified	155349	42.279
1,3-Dichlorobenzene	5.090	430	Identified	185112	39.783
1,4-Dichlorobenzene	5.181	440	Identified	191523	43.600
Benzyl alcohol	5.324	455	Identified	143935	41.383
1,2-Dichlorobenzene	5.378	461	Identified	186390	42.977
2-Methylphenol	5.462	469	Identified	128613	42.871
Bis(2-chloroisopropyl)ether	5.483	472	Identified	179200	41.501
3+4-Methylphenol	5.666	491	Identified	147645	38.800
N-Nitrosodi-n-propylamine	5.659	490	Identified	458289	42.086
Hexachloroethane	5.814	506	Identified	614540	43.150
Nitrobenzene-d5	5.888	514	Identified	131872	39.328

JC
9.10.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.915	517	Identified	136969	39.640
Isophorone	6.220	550	Identified	272093	43.067
2-Nitrophenol	6.347	563	Identified	136887	40.833
2,4-Dimethylphenol	6.394	568	Identified	161972	41.130
Benzoic acid	6.494	578	Identified	1.046E6	45.740
Bis(2-chloroethoxy)methane	6.523	581	Identified	168160	43.110
2,4-Dichlorophenol	6.682	598	Identified	153559	40.331
1,2,4-Trichlorobenzene	6.797	610	Identified	141464	39.964
Naphthalene	6.912	622	Identified	378515	42.252
4-Chloroaniline	6.999	631	Identified	163174	39.532
Hexachlorobutadiene	7.072	639	Identified	282210	39.296
4-Chloro-3-methylphenol	7.711	707	Identified	199683	44.190
2-Methylnaphthalene	7.916	729	Identified	106379	39.129
1-Methylnaphthalene	8.062	744	Identified	110099	39.775
Hexachlorocyclopentadiene	8.138	752	Identified	179007	32.942
2,4,6-Trichlorophenol	8.345	774	Identified	70575	37.479
2,4,5-Trichlorophenol	8.400	780	Identified	62223	35.508
2-Fluorobiphenyl	8.461	786	Identified	314402	38.992
2-Chloronaphthalene	8.642	805	Identified	325284	39.417
2-Nitroaniline	8.822	824	Identified	213893	36.290
Dimethyl phthalate	9.077	851	Identified	583919	38.334
2,6-Dinitrotoluene	9.182	861	Identified	138932	38.128
Acenaphthylene	9.266	870	Identified	385680	37.480
3-Nitroaniline	9.442	889	Identified	209620	36.520
Acenaphthene	9.528	898	Identified	258683	38.753
2,4-Dinitrophenol	9.595	905	Identified	541064	50.777
4-Nitrophenol	9.720	918	Identified	41953	41.301
Dibenzofuran	9.787	925	Identified	165319	34.125
2,4-Dinitrotoluene	9.789	925	Identified	71161	36.451
Diethyl phthalate	10.135	961	Identified	478709	35.149
4-Chlorophenyl phenyl ether	10.303	979	Identified	145650	32.578
Fluorene	10.303	979	Identified	495133	36.231
4-Nitroaniline	10.369	986	Identified	374212	36.841
4,6-Dinitro-2-methylphenol	10.403	989	Identified	631840	57.363
N-Nitrosodiphenylamine	10.495	999	Identified	265168	43.878
Azobenzene	10.545	1004	Identified	368433	43.046
2,4,6-Tribromophenol	10.677	1018	Identified	660601	43.811
4-Bromophenyl phenyl ether	11.044	1057	Identified	195139	41.883
Hexachlorobenzene	11.133	1066	Identified	207167	41.035
Pentachlorophenol	11.447	1099	Identified	592911	46.522
Phenanthrene	11.760	1132	Identified	378536	43.181
Anthracene	11.837	1140	Identified	402792	45.433
Carbazole	12.103	1168	Identified	363455	42.067
Di-n-butyl phthalate	12.606	1221	Identified	827316	44.908
Fluoranthene	13.568	1323	Identified	329411	38.879
Benzidine	13.799	1348	Identified	163670	29.385
Pyrene	13.915	1360	Identified	332202	39.548
4-Terphenyl-d14	14.148	1384	Identified	471243	38.399
Butyl benzyl phthalate	14.889	1463	Identified	409694	41.778
3,3'-Dichlorobenzidine	15.713	1549	Identified	769990	40.069

Operator: David Melius Inj. Notes: sv110-0593 40ppm ccvb.SMS

9/9/2014 13:08

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.730	1551	Identified	645113	34.883
Bis(2-ethylhexyl)phthalate	15.729	1551	Identified	399851	32.811
Chrysene	15.784	1557	Identified	795253	37.584
Di-n-octyl phthalate	16.661	1648	Identified	1.064E6	43.619
Benzo(b)fluoranthene	17.282	1712	Identified	774219	41.858
Benzo[k]fluoranthene	17.320	1716	Identified	775122	41.749
Benzo[a]pyrene	17.797	1765	Identified	723534	41.618
Indeno[1,2,3-cd]pyrene	19.933	1987	Identified	441691	40.249
Dibenz[a,h]anthracene	19.971	1990	Identified	374059	40.308
Benzo[g,h,i]perylene	20.560	2051	Identified	424823	39.264

****
Revision Log
****

9/9/2014 1:07 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

an Star Workstation - 6400 Simplicity

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

JV
4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
51	10-80% of base peak	19.8	
68	<2% of m/z 69	0.1 (0.3)	69
69	Present	22.3	
70	<2% of m/z 69	0.0	
127	10-80% of base peak	21.8	
197	<2% of m/z 198	0.0	
198	Base peak	100.0	
199	5-9% of m/z 198	5.8	
275	10-60% of base peak	34.5	
365	>1% of base peak	6.8	
441	Present and <m/z 443	3.9 (41.6)	443
442	>50% of m/z 198	53.5	
443	15-24% of m/z 442	9.4 (17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

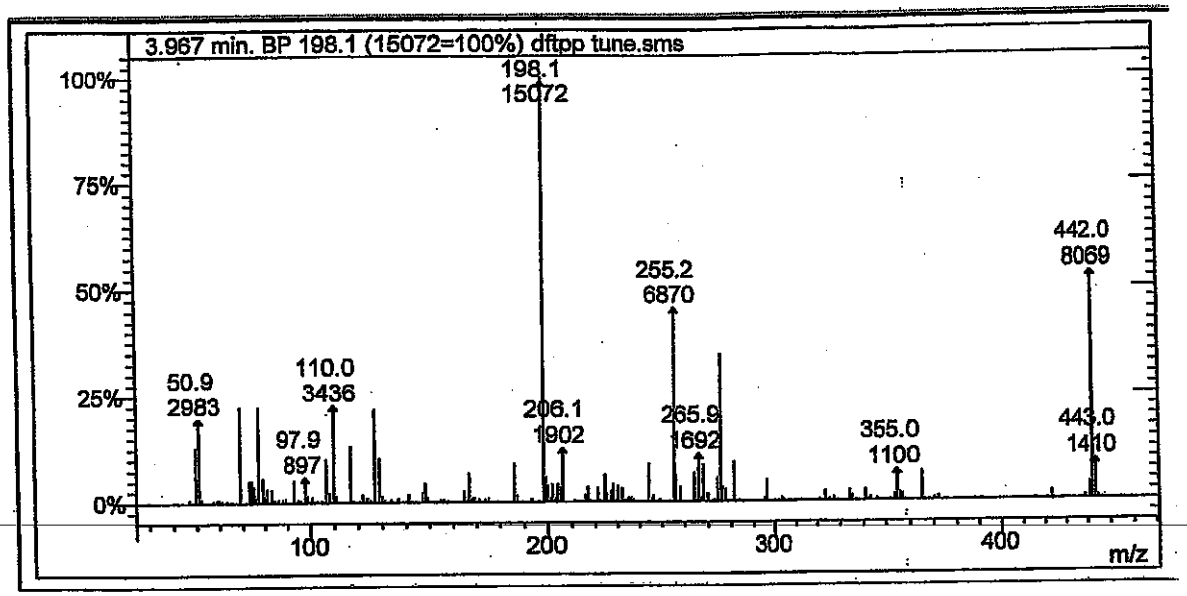
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

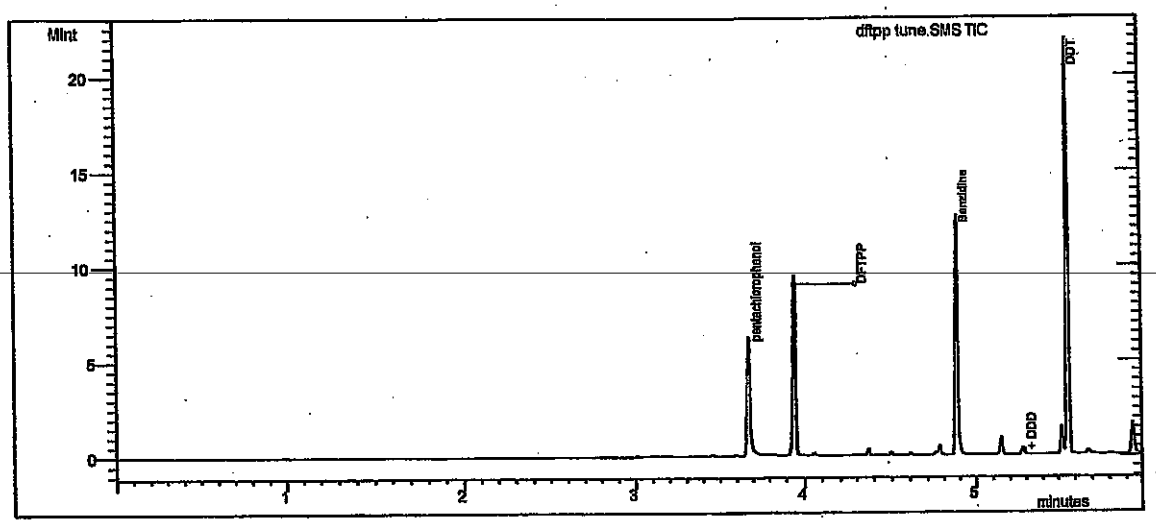
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

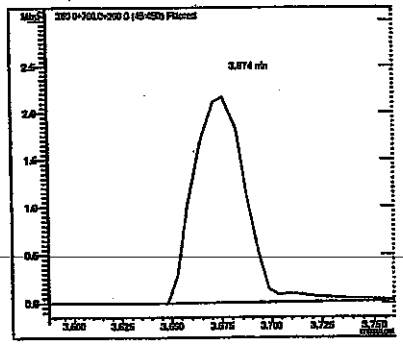
% Degradation of DDT: = .509 ✓ dam 4/28/14

TC 4-28-14

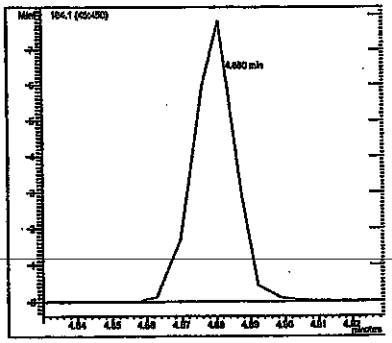
Tailing and Gaussian Factor Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dlm 4/28/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

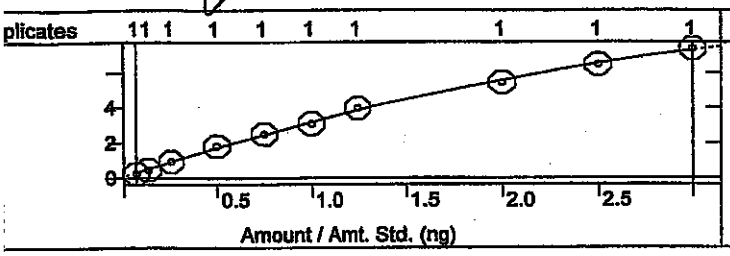
alibration Curves Report

v JBH 4/28/14

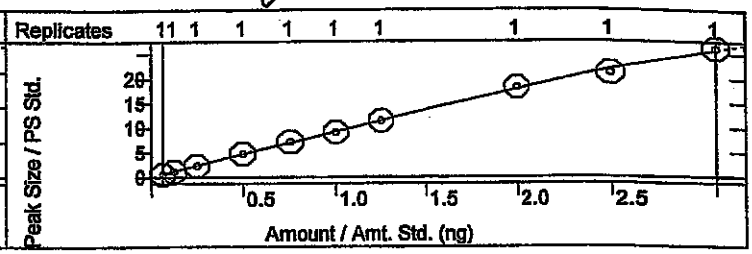
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

D 4.28.14

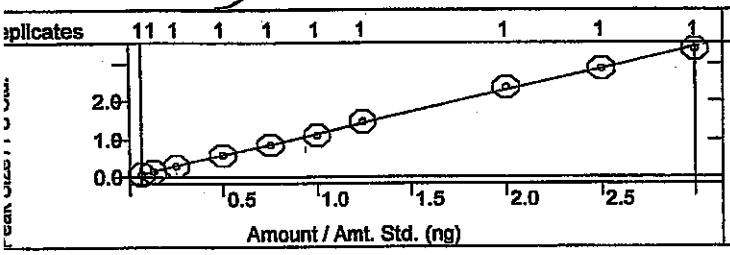
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



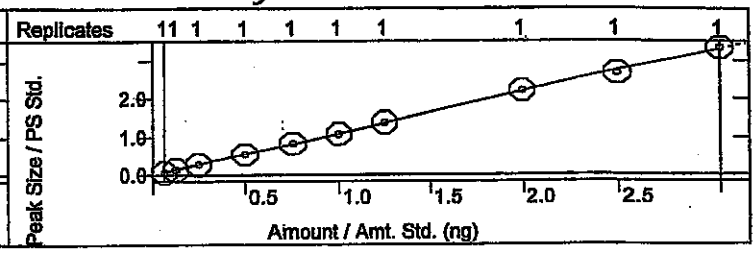
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



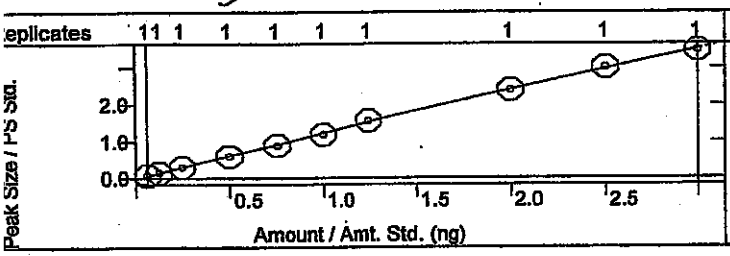
-Fluorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



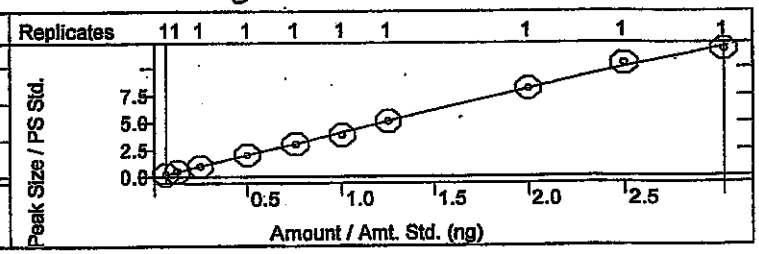
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



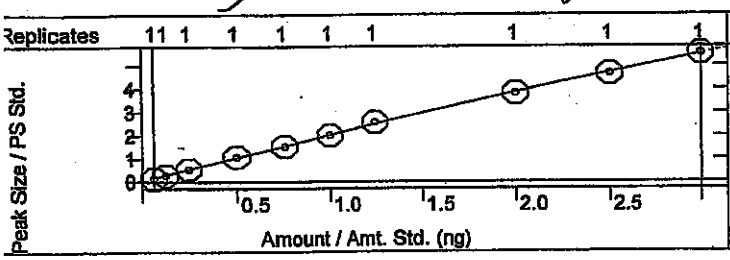
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



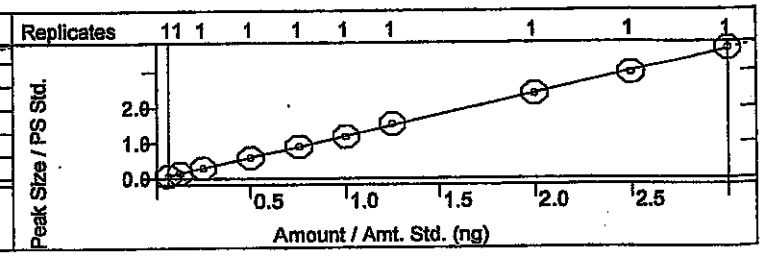
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



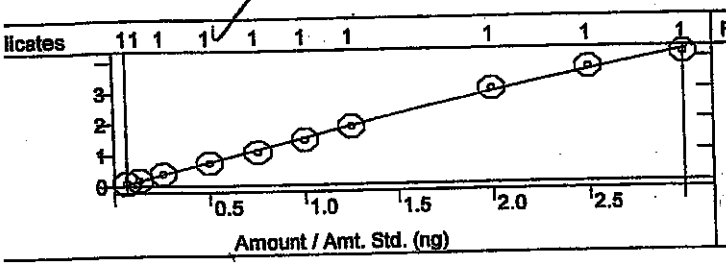
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



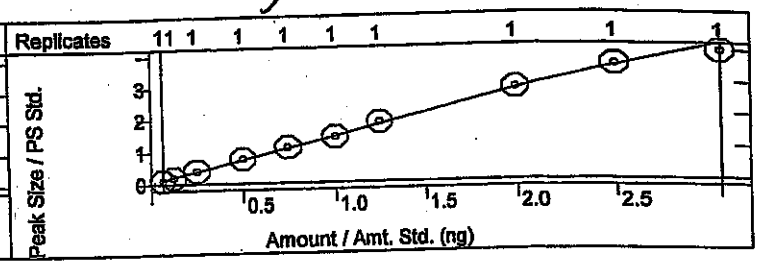
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
nple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

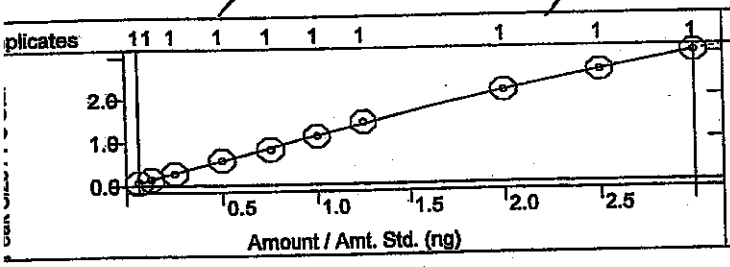
-Dichlorobenzene
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



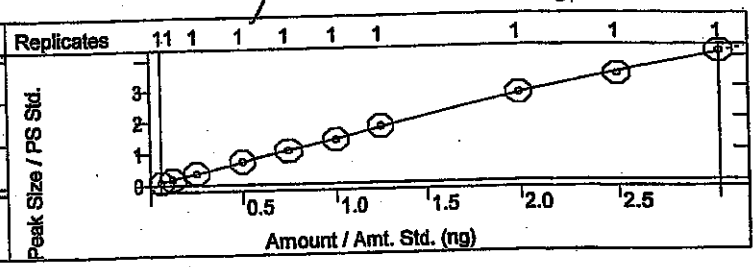
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



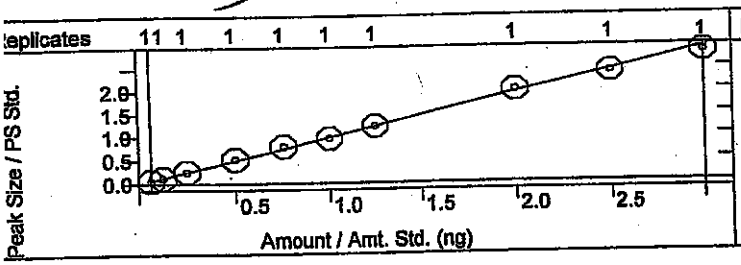
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



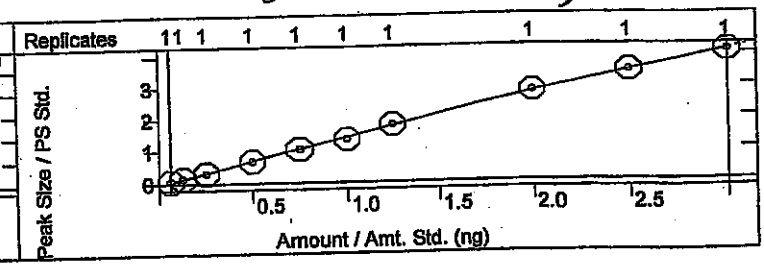
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



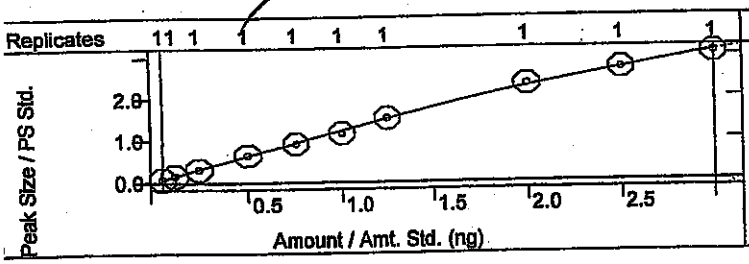
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



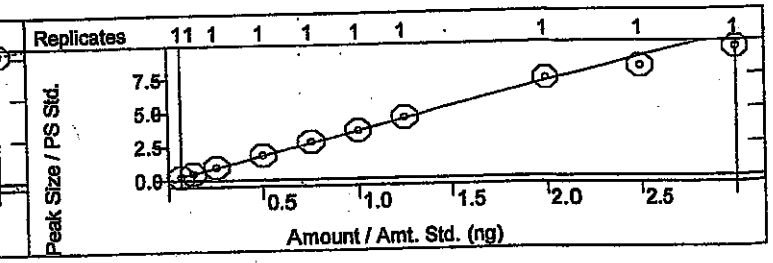
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

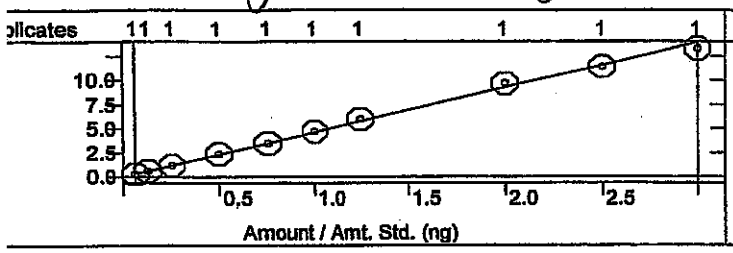


V dam 4/28/14

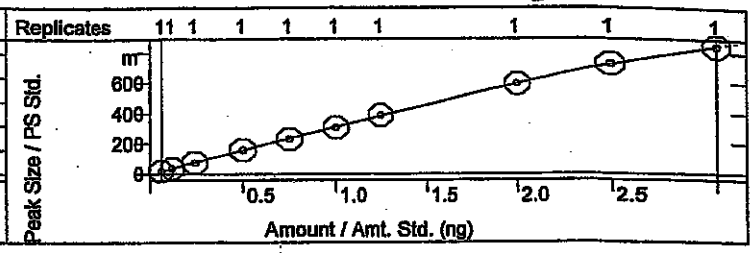
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

V 4.28.14

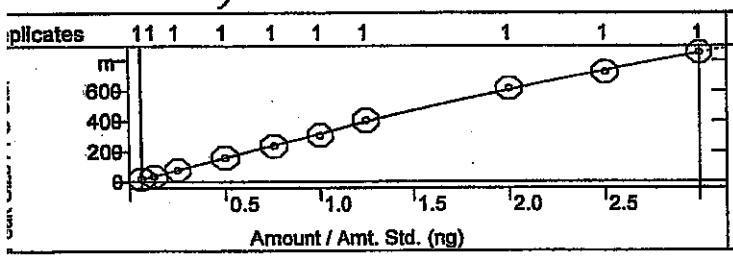
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



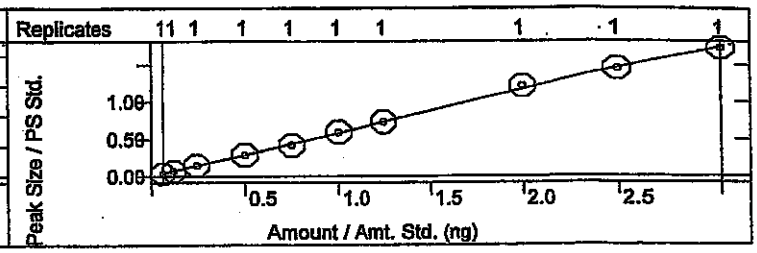
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



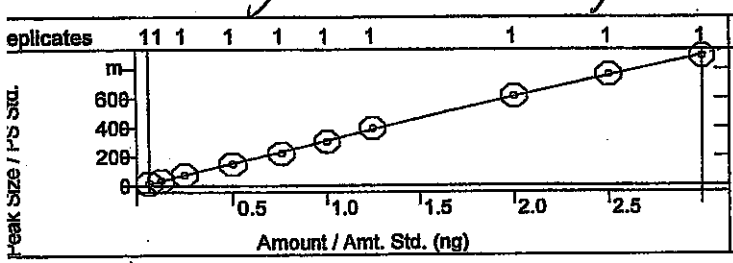
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



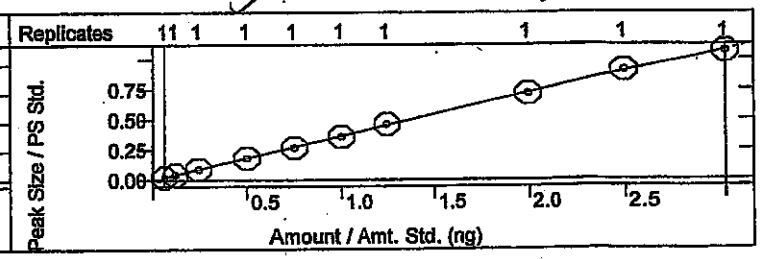
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



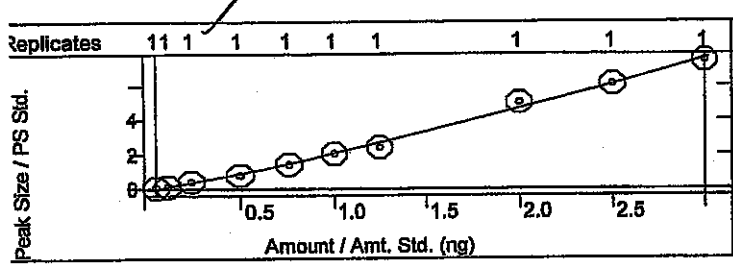
-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



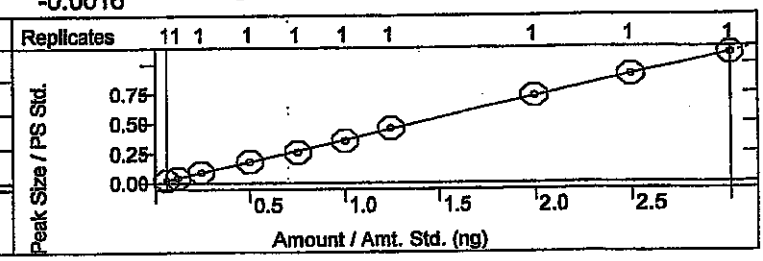
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



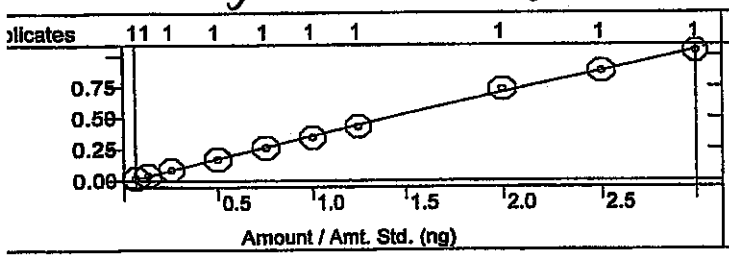
Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



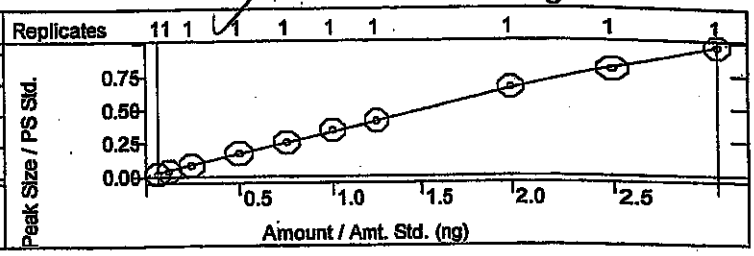
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

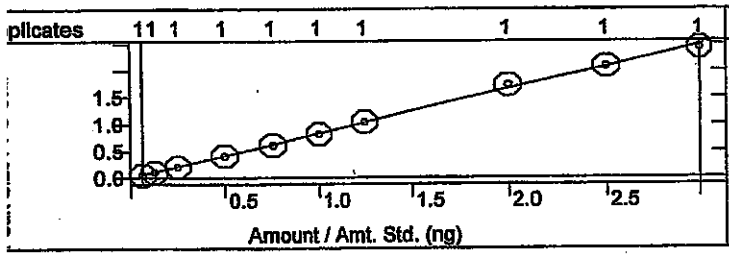
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



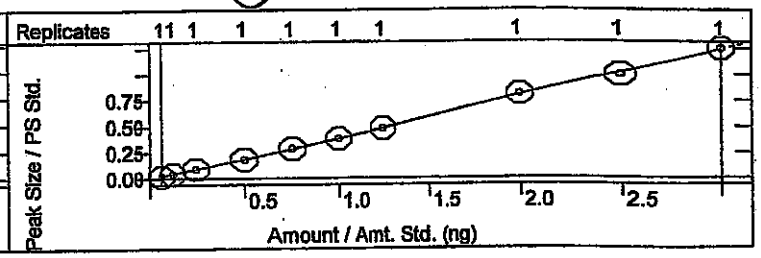
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



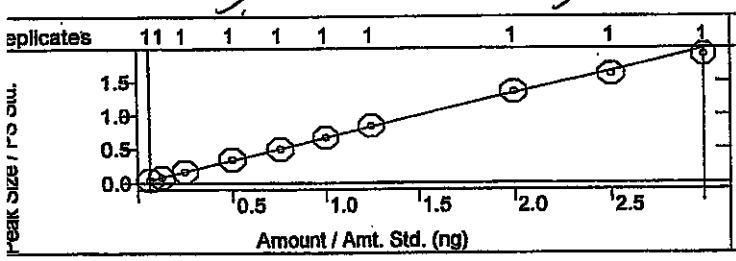
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



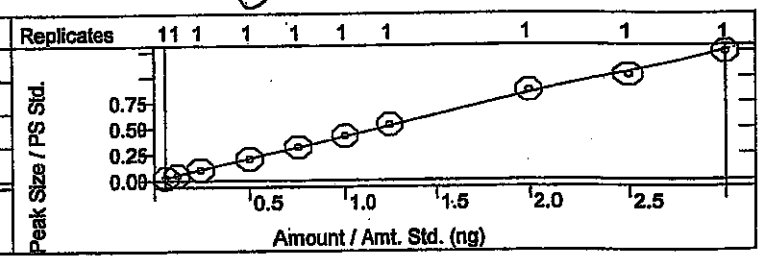
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



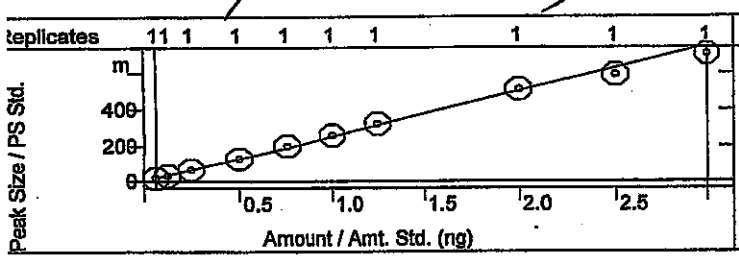
lexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



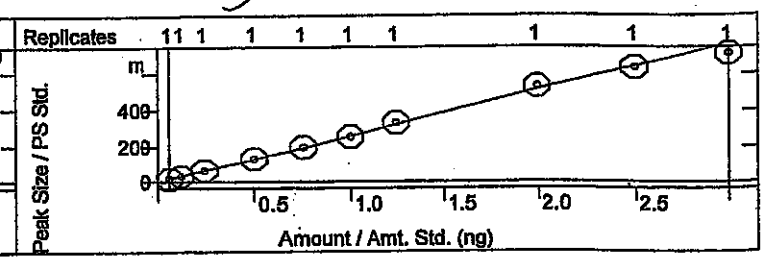
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



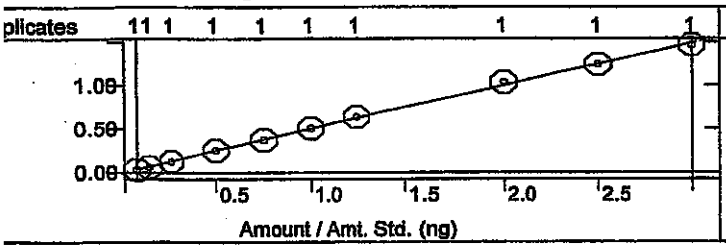
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



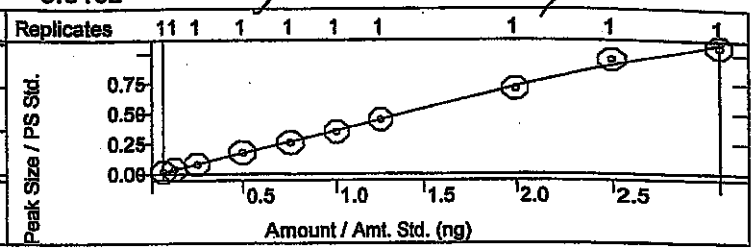
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

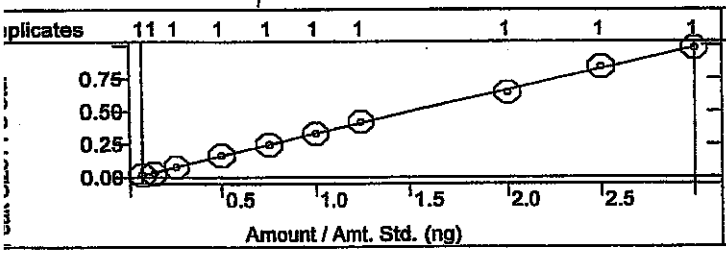
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



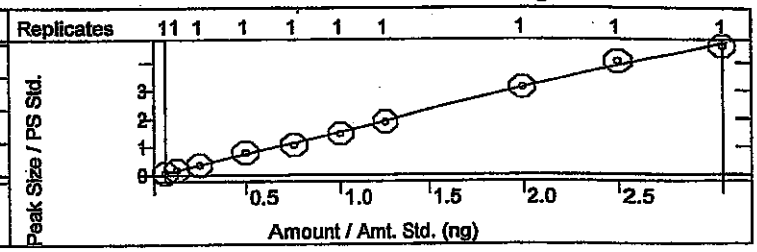
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



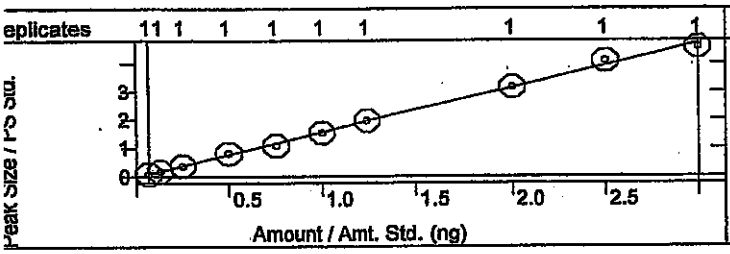
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



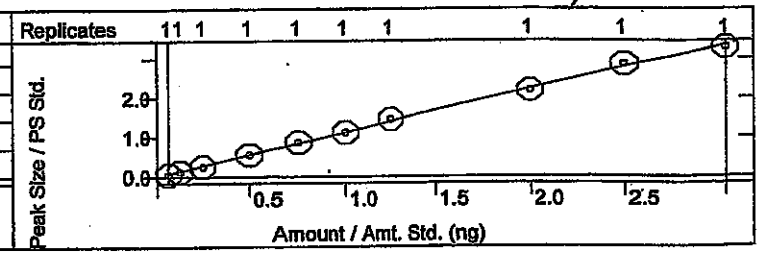
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



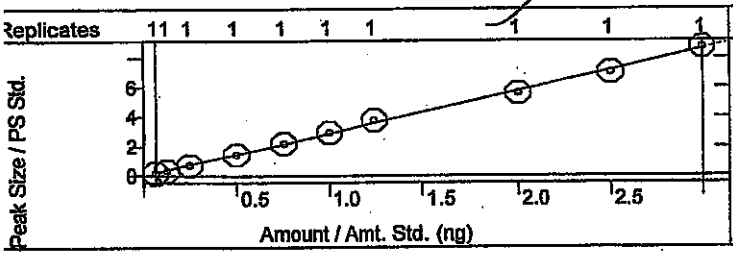
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



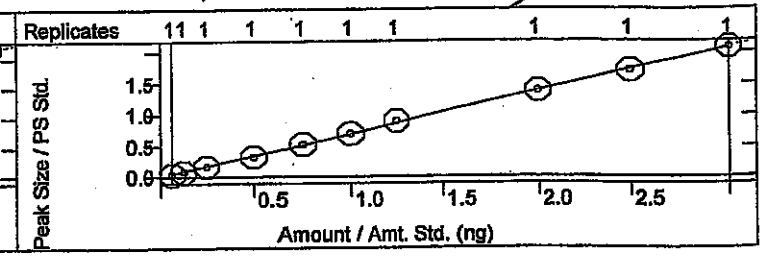
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



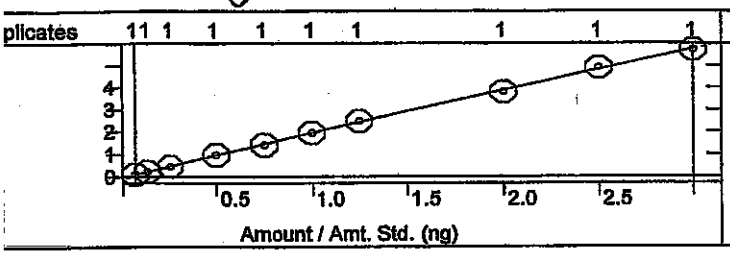
alibration Curves Report

✓ dm 4/28/14

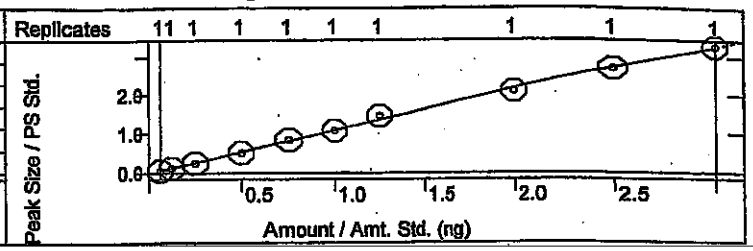
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

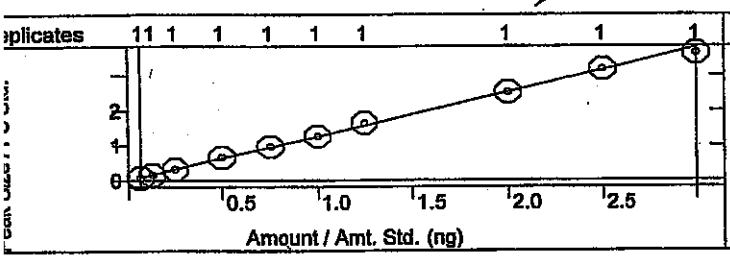
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



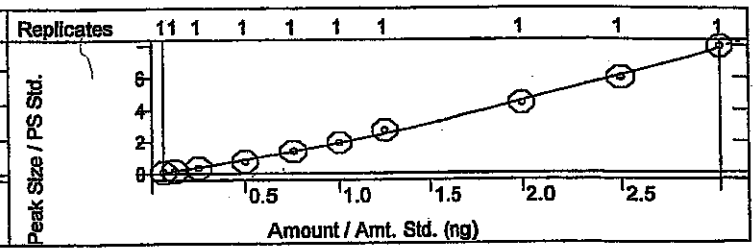
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



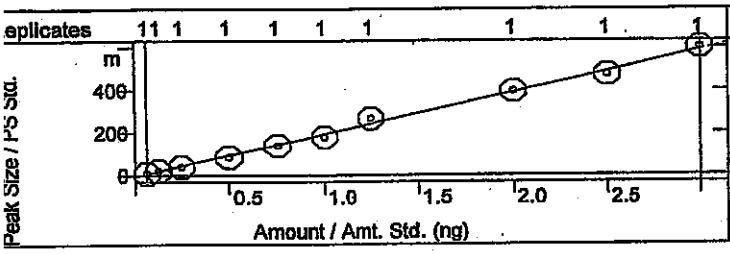
cenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



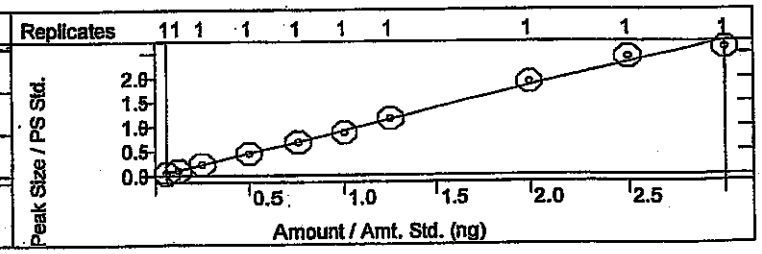
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



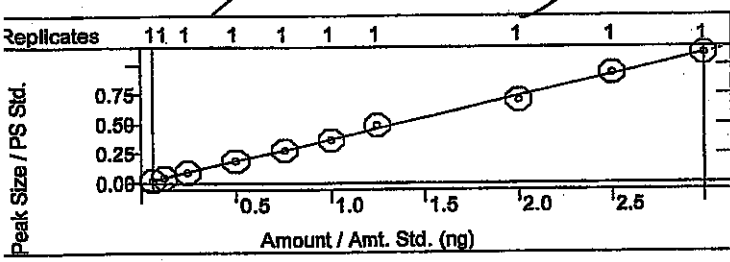
l-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
/ = +0.1978x -0.0058



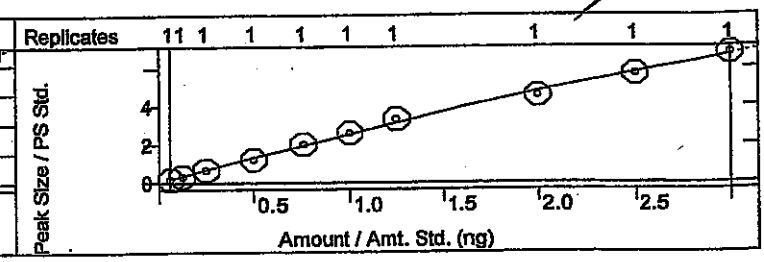
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4

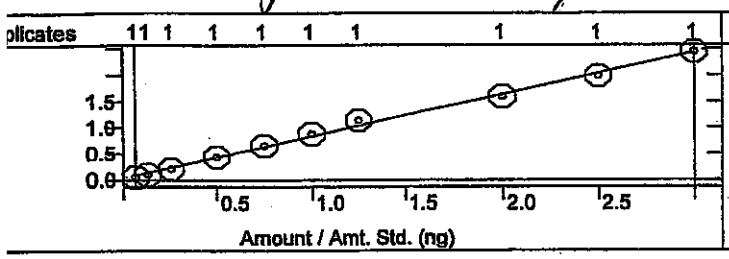


Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097

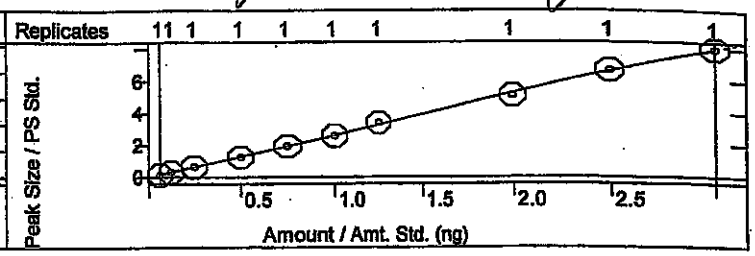


ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

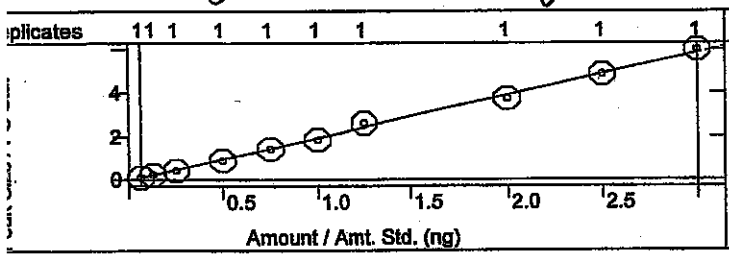
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



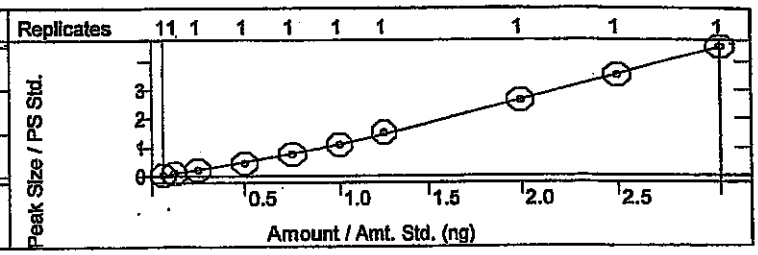
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



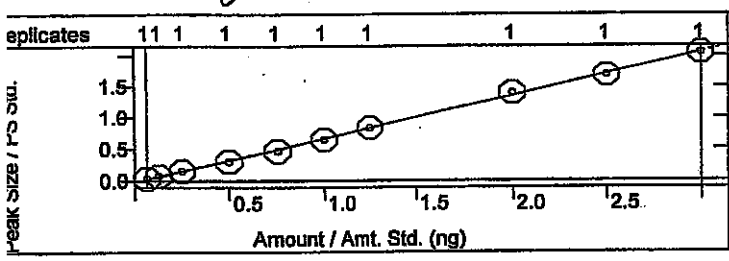
-Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



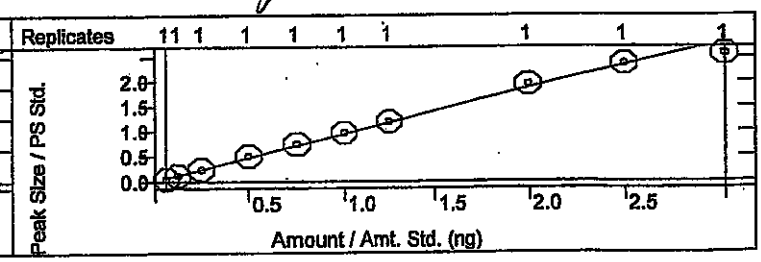
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



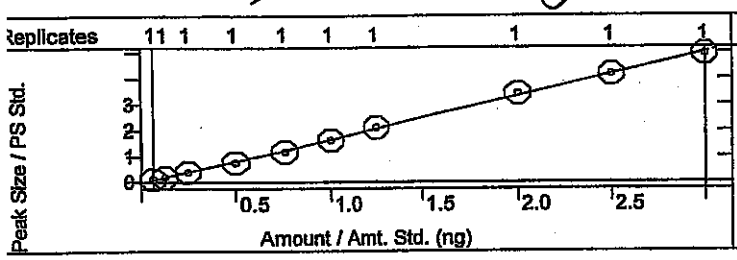
-Nitrosodiphenylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



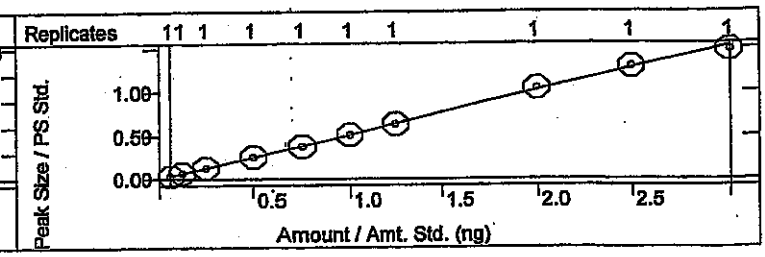
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



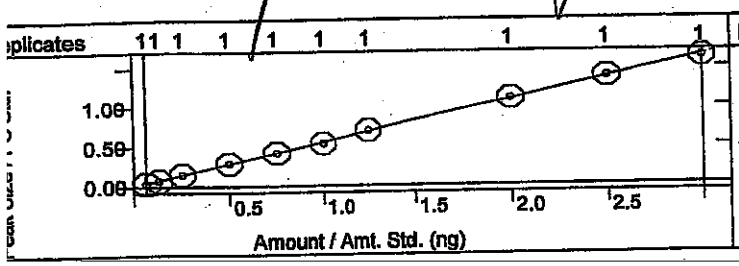
alibration Curves Report

√ dgm 4/28/14

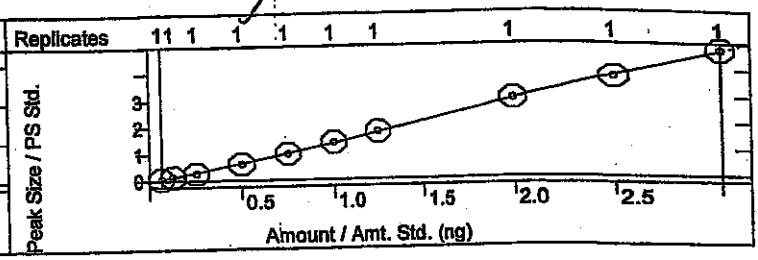
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-24-14

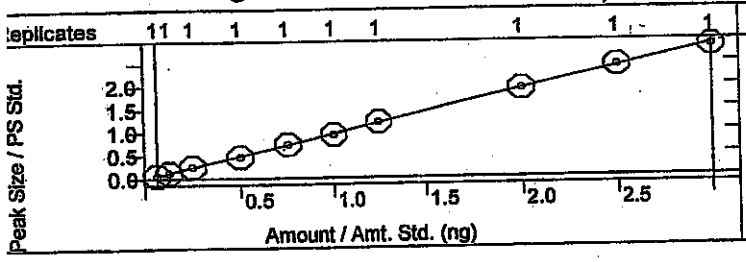
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



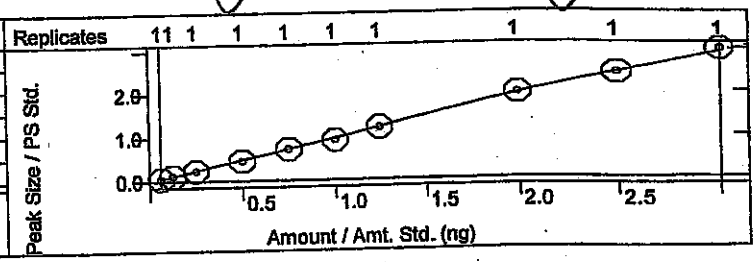
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



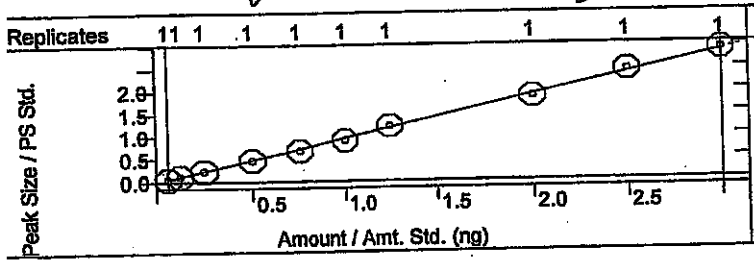
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



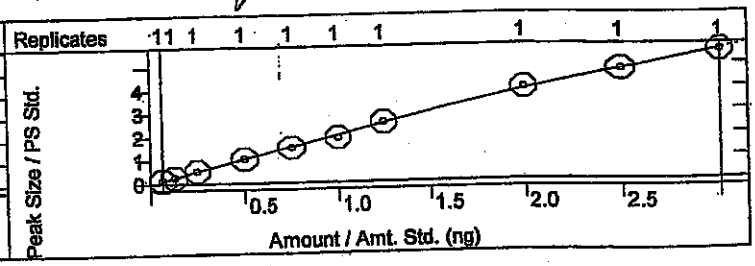
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



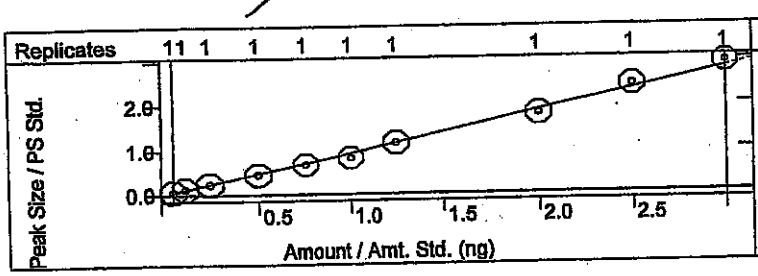
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



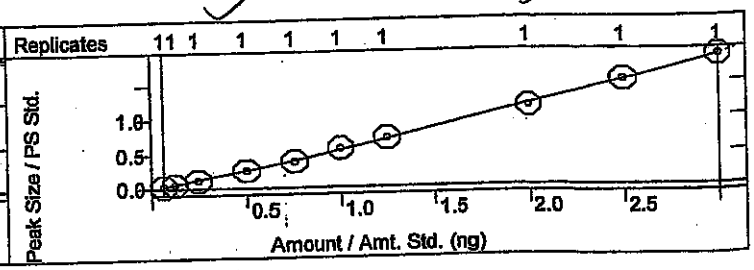
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098

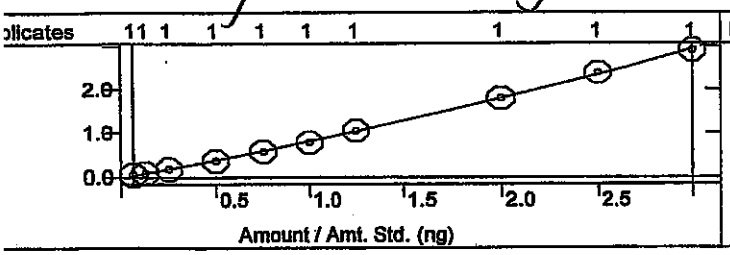


alibration Curves Report

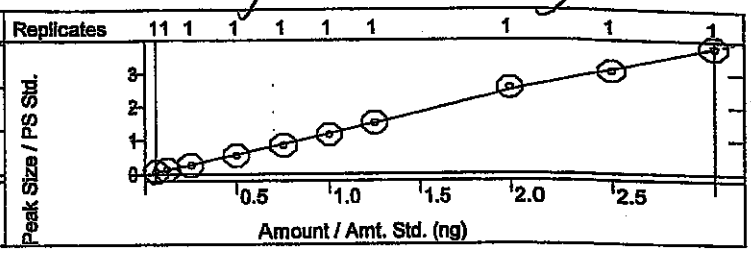
J Allen 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

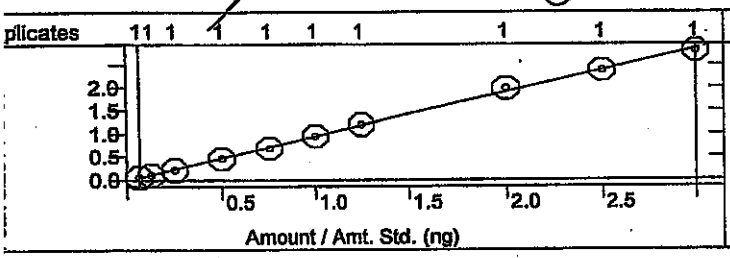
rene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



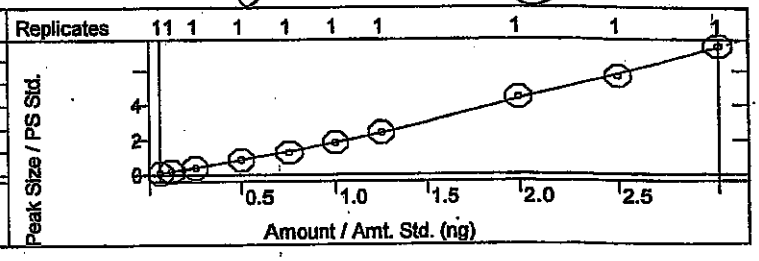
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



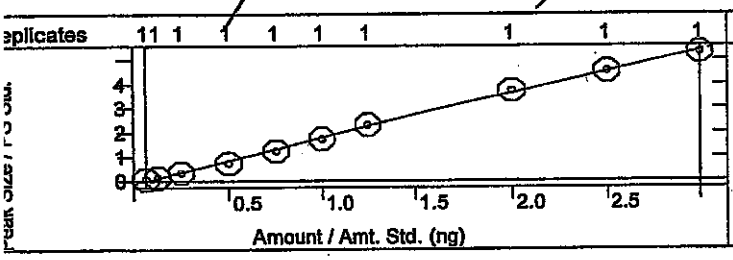
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



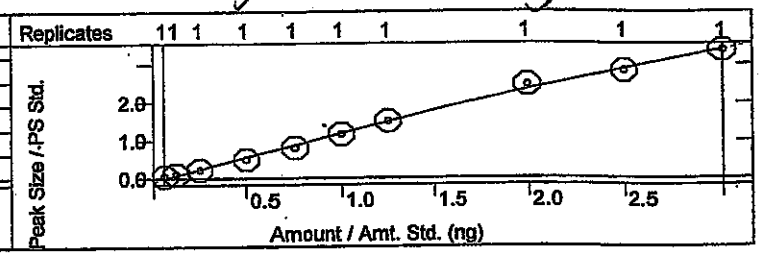
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



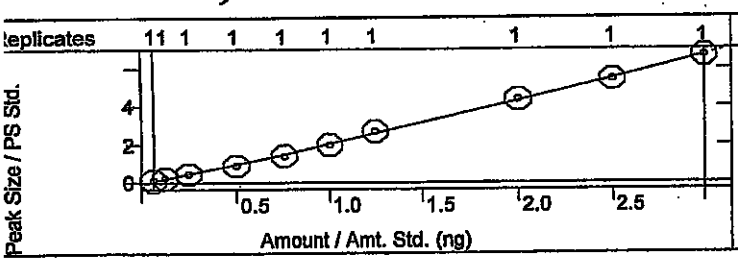
enz[a]anthracene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9866x -0.1374



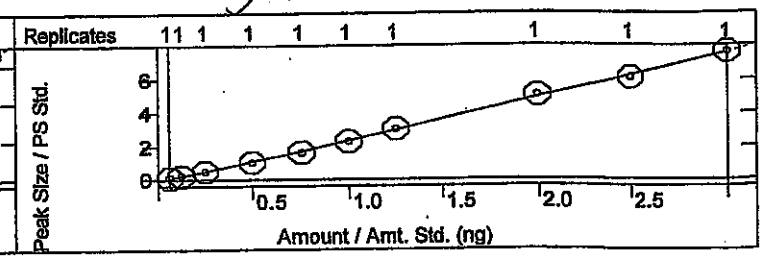
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



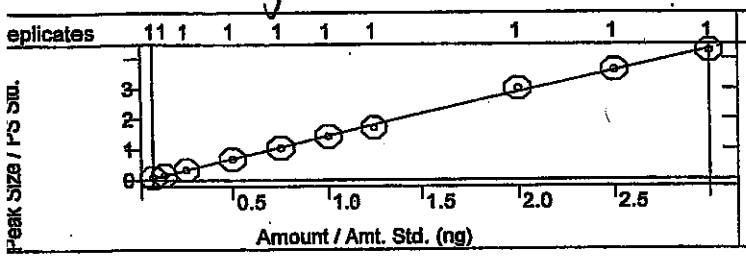
Calibration Curves Report

I dmh 4/28/14

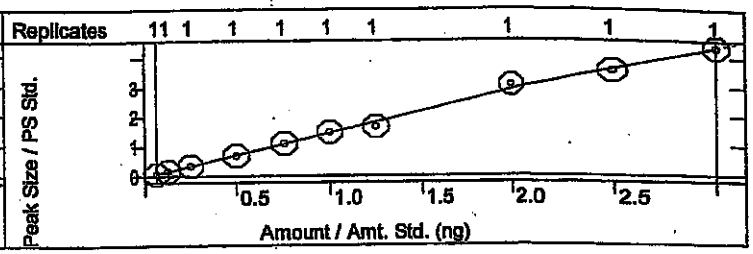
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4-28-14

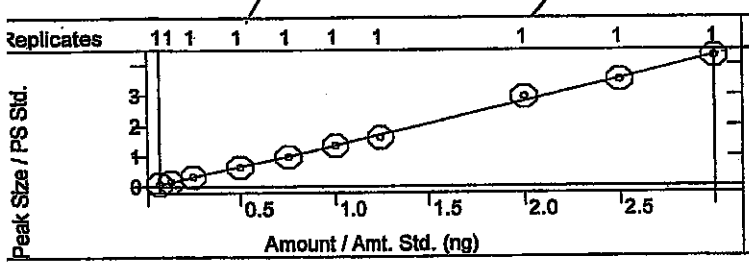
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
y = -0.0187x2 +1.5058x -0.0450



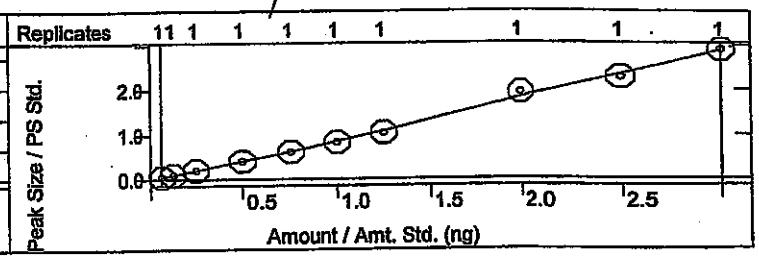
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4796x -0.0270



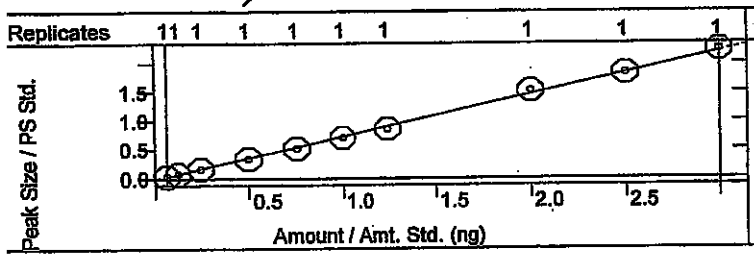
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



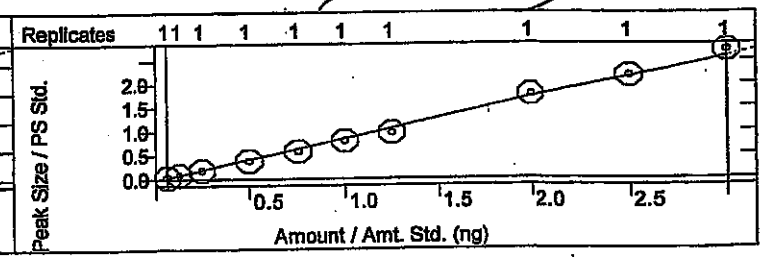
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dlm 4/28/14

JU 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.676	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dam 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

50ppm crv.SMS

JL 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dan 4/2

JV 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dlw 4/28/14

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dlm 4/28

JC 4.28.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-24-14

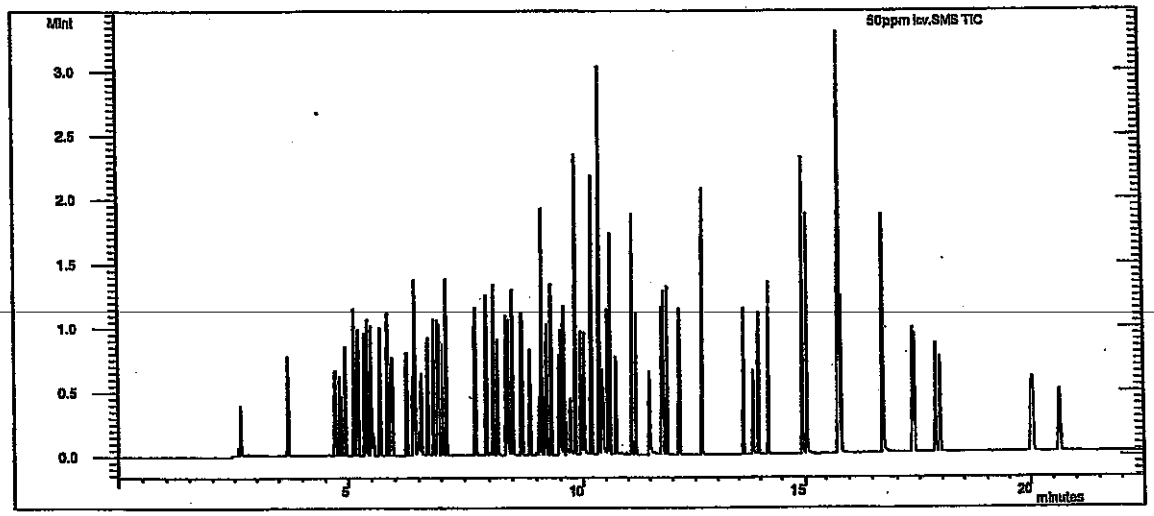
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius Inj. Notes: st110-0599 50ppm icv.SMS

4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

****

Varian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

SampleList: C:\VarianWS\033114.smp

Created: Mon Mar 31 09:23:44 2014
Modified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

4.1.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David [illegible]

QA: John Caldwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [illegible] and [illegible].

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

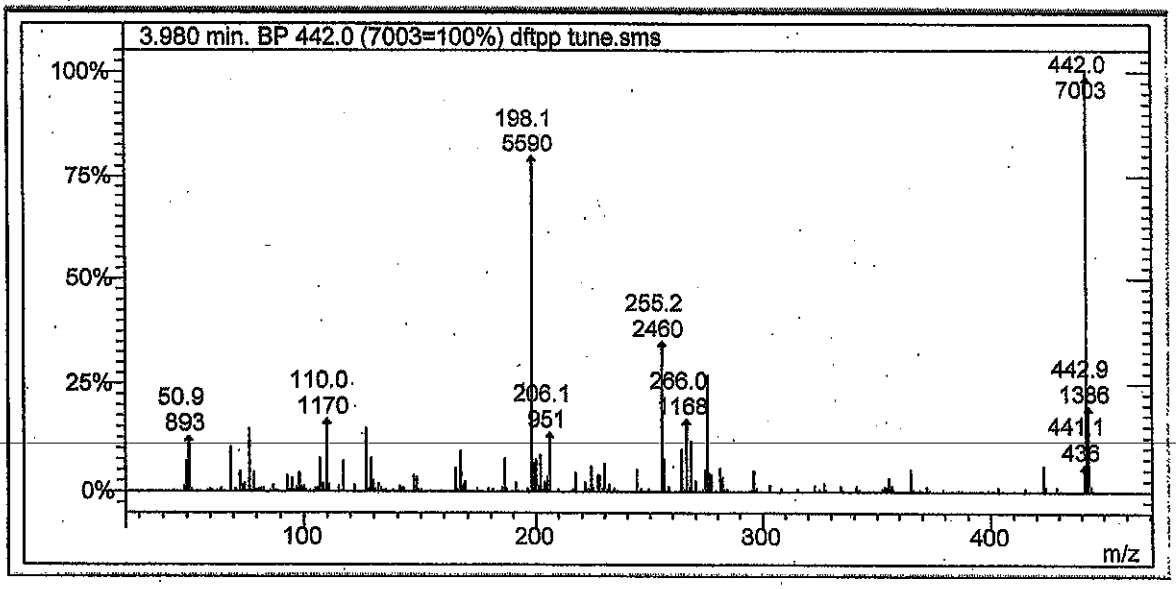
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	12.8		
68	<2% of m/z 69	0.0		
69	Present	10.2		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	14.5		
197	<2% of m/z 198	0.4	(0.5)	198
198	Base peak	79.8		
199	5-9% of m/z 198	6.5	(8.2)	198
275	10-60% of base peak	26.9		
365	>1% of base peak	5.0		
441	Present and <m/z 443	6.2	(31.5)	443
442	>50% of m/z 198	100.0	(125.3)	198
443	15-24% of m/z 442	19.8		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 ll crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 ll crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

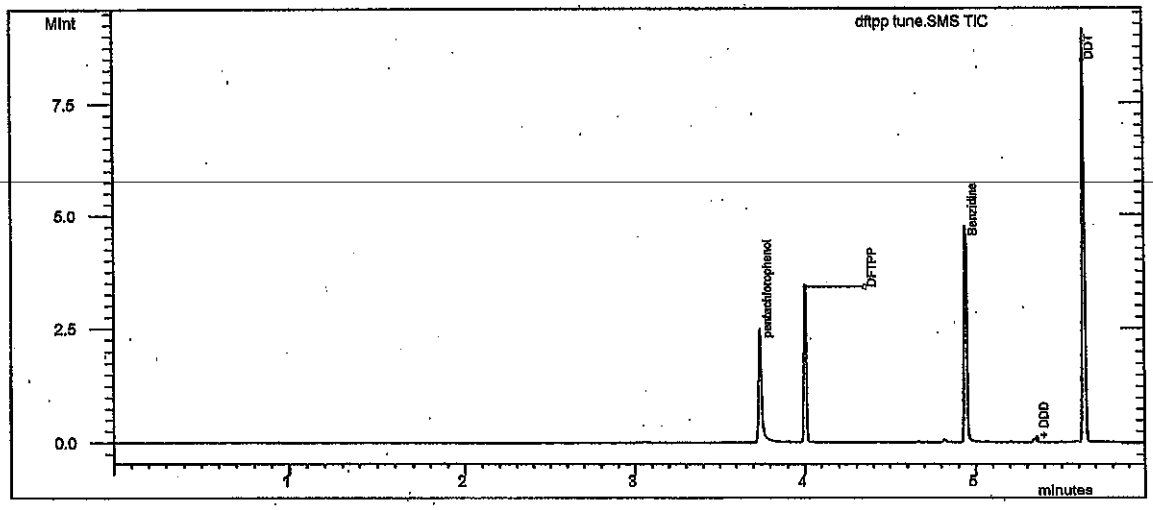
Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

dan 4/1/14

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Mellus
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT: = .944

✓ dam 4/1/14

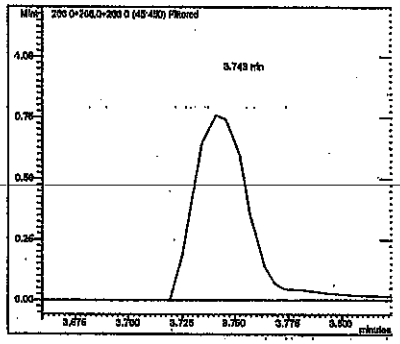
JC 4.1.14

Tailing and Gaussian Factor Report

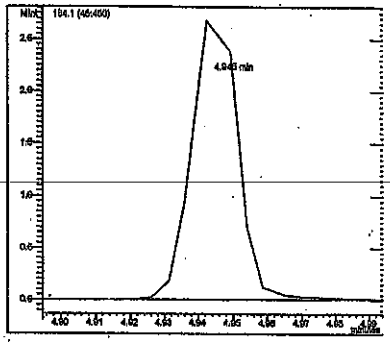
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPP	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

dam 4/1/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

TC 4/1/14

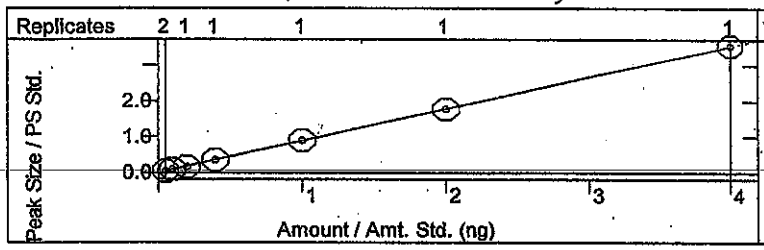
Print Date: 31 Mar 2014 13:27:53

Calibration Curves Report

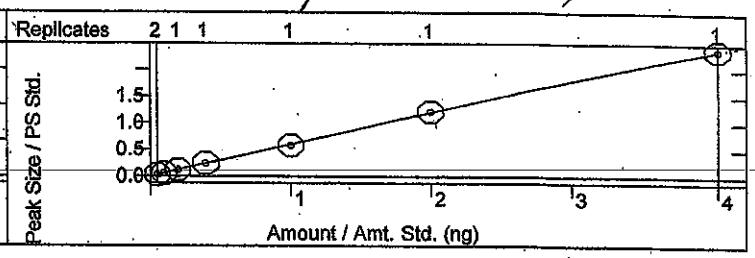
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

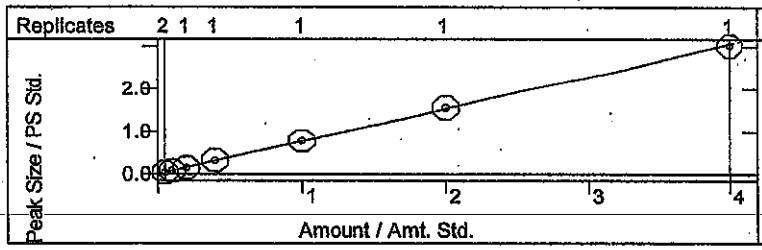
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



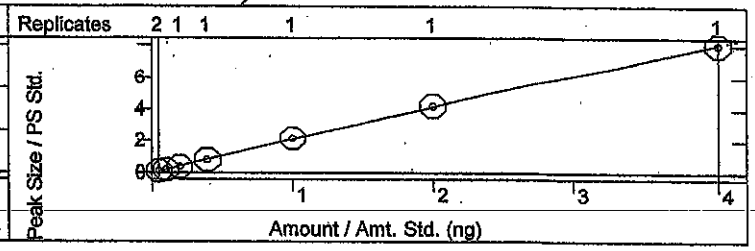
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



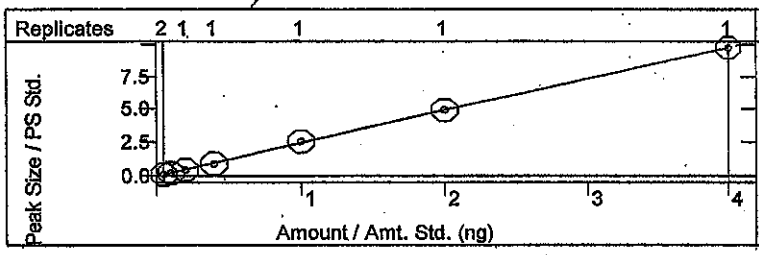
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



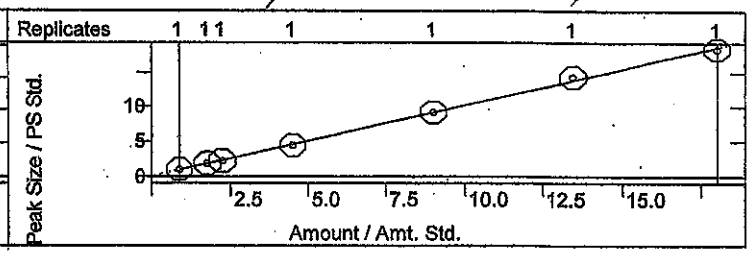
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



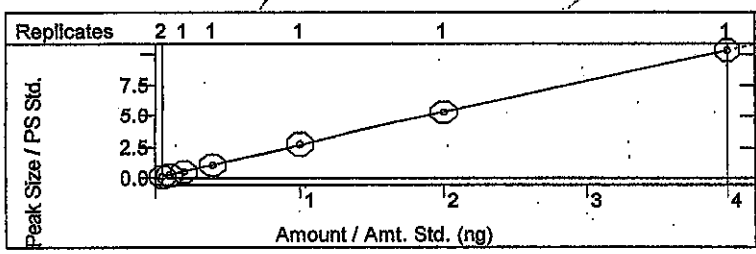
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



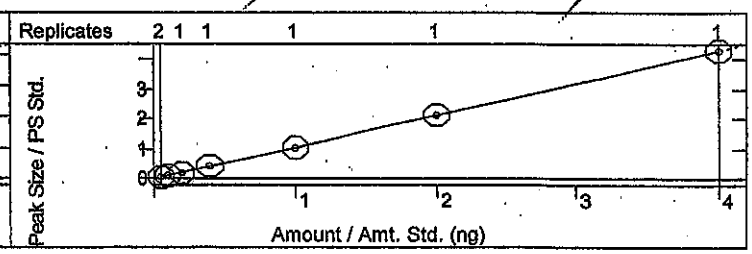
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4

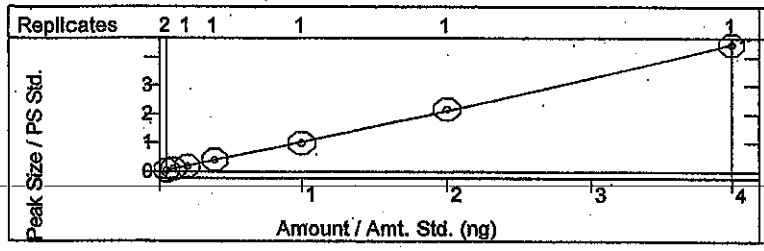


Calibration Curves Report

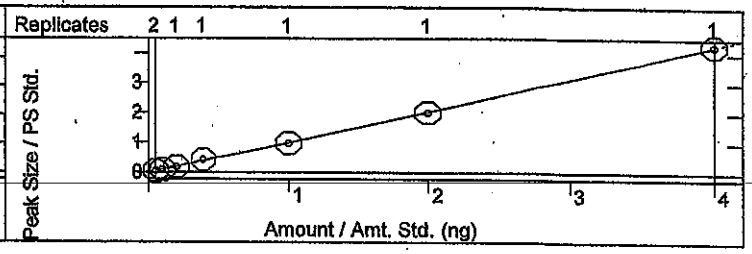
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

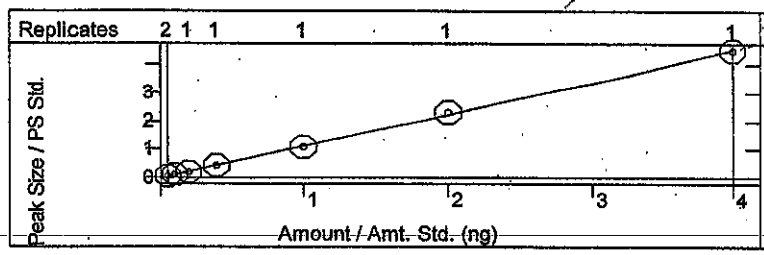
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



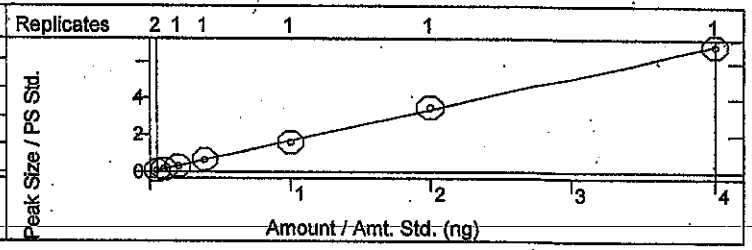
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



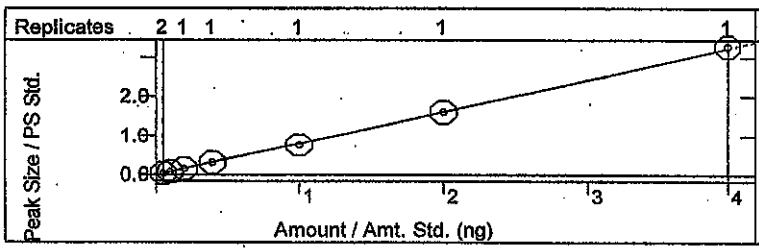
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



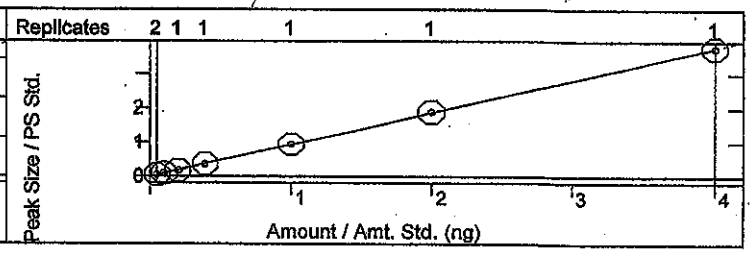
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



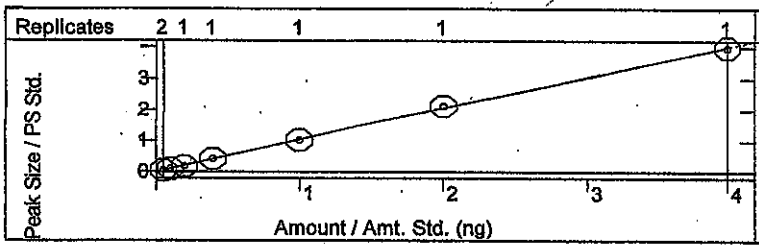
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



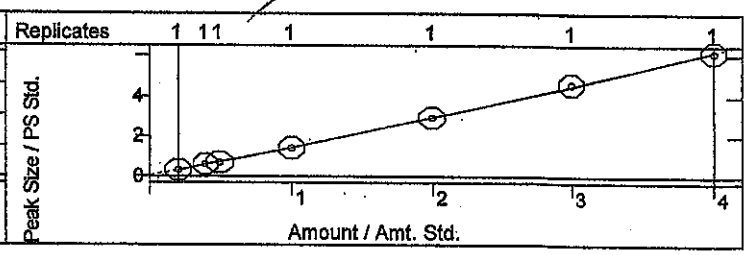
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401



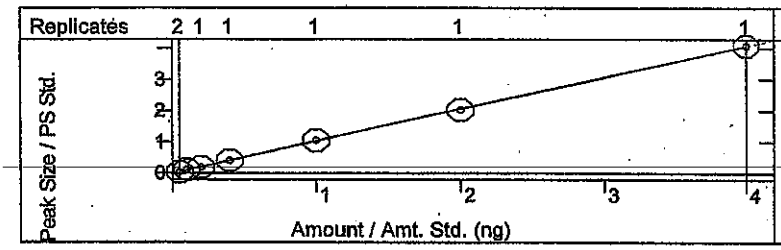
Calibration Curves Report

dam 4/1/14

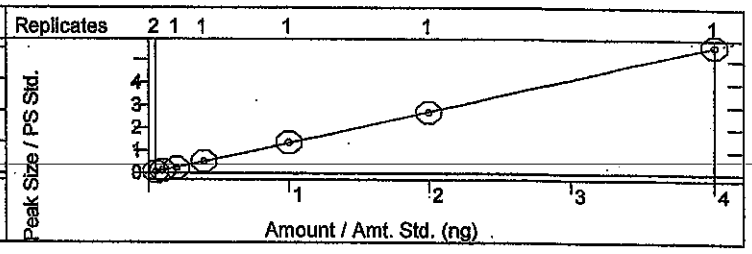
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

DV 4/1/14

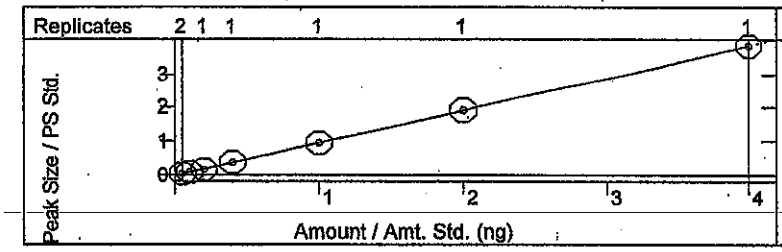
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



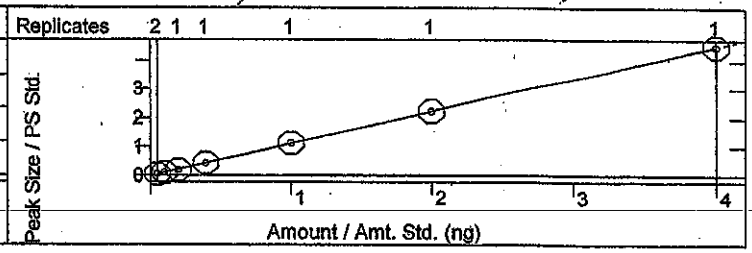
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JO 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
								Average %RSD		5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4-1-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 4/1/14

DC
4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Mellus

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

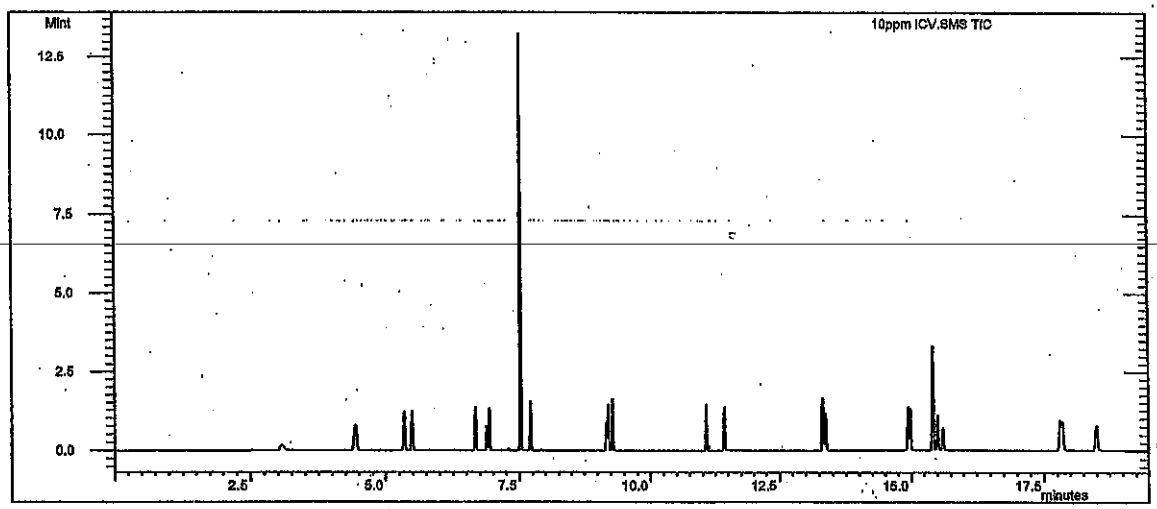
* Indicates Internal Standard.

dam 4/1/14

TC 4.1.14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

****
Revision Log
****

3/31/2014 1:43 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

pp 9/12/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409275**
Date Reported:

14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409275

Lab ID: 1409275-001 **Collection Date:** 9/5/2014 8:10:00 AM
Client Sample ID: FFOR-CF-0072 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	80 ✓	0.55		mg/Kg-dry	2	9/9/2014 11:01:36 AM	15173

Lab ID: 1409275-002 **Collection Date:** 9/5/2014 9:05:00 AM
Client Sample ID: FFOR-CF-0073 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	1.1 ✓	0.28		mg/Kg-dry	1	9/9/2014 10:38:50 AM	15173

Lab ID: 1409275-003 **Collection Date:** 9/5/2014 11:16:00 AM
Client Sample ID: FFOR-CF-0074 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.9 ✓	0.26		mg/Kg-dry	1	9/9/2014 10:40:08 AM	15173

Lab ID: 1409275-004 **Collection Date:** 9/5/2014 1:19:00 PM
Client Sample ID: FFOR-CF-0075 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	7.6 ✓	0.27		mg/Kg-dry	1	9/9/2014 11:02:51 AM	15173

Lab ID: 1409275-005 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0076 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	7.4 ✓	0.28		mg/Kg-dry	1	9/9/2014 10:49:03 AM	15173

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1409275
Project: Kirtland AFB

Lab ID: 1409275-006 **Collection Date:** 9/5/2014 1:29:00 PM
Client Sample ID: FFOR-CF-0077 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	4.2 ✓	0.27		mg/Kg-dry	1	9/9/2014 10:50:20 AM	15173

Lab ID: 1409275-009 **Collection Date:** 9/5/2014 1:46:00 PM
Client Sample ID: FFOR-CF-0111 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	4.1 ✓	0.27		mg/Kg-dry	1	9/9/2014 10:51:38 AM	15173

Lab ID: 1409275-010 **Collection Date:** 9/5/2014 1:55:00 PM
Client Sample ID: FFOR-CF-0112 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	11 ✓	0.28		mg/Kg-dry	1	9/9/2014 10:52:54 AM	15173

Lab ID: 1409275-011 **Collection Date:** 9/5/2014 2:40:00 PM
Client Sample ID: FFOR-CF-0113 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	3.4 ✓	0.58		mg/Kg-dry	2	9/9/2014 11:07:54 AM	15173

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/8/2014 12:25:37 P**
Prep End Date:

Analyst/Date: DD 9/8/14
QA'd/Date: JAF 9/10/14

Prep Batch ID **15173** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15173		Soil			1.9875	0	0	50	50.000	9/8/2014	
LCS-15173		Soil			1.9507	0	0	50	50.000	9/8/2014	
1409275-001A	FFOR-CF-0072	MeOH (Soil)			1.9908	0	0	50	50.000	9/8/2014	
1409275-002A	FFOR-CF-0073	MeOH (Soil)			1.0005	0	0	50	50.000	9/8/2014	
1409275-003A	FFOR-CF-0074	MeOH (Soil)			1.0320	0	0	50	50.000	9/8/2014	
1409275-004A	FFOR-CF-0075	MeOH (Soil)			1.0004	0	0	50	50.000	9/8/2014	
1409275-004AMS		MeOH (Soil)			1.0279	0	0	50	50.000	9/8/2014	
1409275-004AMSD		MeOH (Soil)			1.9834	0	0	50	50.000	9/8/2014	
1409275-005A	FFOR-CF-0076	MeOH (Soil)			1.9764	0	0	50	50.000	9/8/2014	
1409275-006A	FFOR-CF-0077	MeOH (Soil)			1.0132	0	0	50	50.000	9/8/2014	
1409275-009A	FFOR-CF-0111	MeOH (Soil)			1.9978	0	0	50	50.000	9/8/2014	
1409275-010A	FFOR-CF-0112	MeOH (Soil)			1.9860	0	0	50	50.000	9/8/2014	
1409275-011A	FFOR-CF-0113	MeOH (Soil)			1.9615	0	0	50	50.000	9/8/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		15173		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4704	Tubes 1/1		Tubes /		Tubes /
	HNO_3 /		HNO_3 / MD 9/8	4731 4731	HNO_3 3/3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4733 4732	HCl 1/3		HCl /		HCl /
	Filters /		Filters /	4724	Filters 1/3		Filters /		Filters /
				4684	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14257 Exp: 5/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - _____ Exp: _____ _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawah Position: D4

Therm ID: DBT-22 Calibration Exp: 8/9/15

Temp: 91.4 °C CF: -0 °C Corr. Temp: =91.4 °C

Analyst: MD Date/Time: 9/8/14 14:09

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C Corr. Temp: = _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.4900g - 0.5100g

250µL Pipette No.: P03 Wt. DI (g): 0.2508 Rm Temp (°C): 21.2 Analyst: MD

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 9/8/14 QA'd/Date: JF 9/10/14

Run No.: 21089

ICP-OES Analysis Summary

Instrument: 15 15

Data Imported By: EL 9/9/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 090914 B15173 **Prep Batch ID:** 15173

Calibration

	Standard ID
ST1	ST6010- 14393
ST2	ST6010- 14394
ST3 (CCV)	ST6010- 14395
ST4	ST6010- 14396

	Standard ID
ST5	ST6010- 14397
ST6	ST6010-
ST7 (CCV CAT)	ST6010-
ST8	ST6010- EL 9/9/14

	Standard ID
ICV	ST6010- 14392
ICV CAT	ST6010- NA
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14383

2% Nitric Acid

Reagent ID: 1433

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010- 14257	Custom STD 402	50µl	10mL
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 50µl Wt DI (g): 0.0494 Rm Temp (°C): 21.8 Analyst: EL

Pipette No: P30 Spike Volume: 500µl Wt DI (g): 0.5011 Rm Temp (°C): 21.8 Analyst: EL

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0030 Rm Temp (°C): 21.8 Analyst: EL

Pipette No: _____ Spike Volume: _____ Wt DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

EL 9/9/14

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
PB	1409275-001A	0.7231	0.2908	50mL	2x	79.5371	

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist
PB	1409275-001A	1.241638 0.7231	8.2309

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result 79.5371 mg/Kg-dry

$= \frac{1}{1-\left(\frac{\text{PMoist}}{100}\right)}\left(\frac{50}{1g}\right)$ (Reported Res

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result _____ mg/L

Analyst/Date: EL 9/9/14 Qa'd by/Date: JP 9/12/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: JP and LL

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Sample Information Detail Report
Document Name: 090914 B15173

File Description
Hall Design

Parameters Common to All Samples

Batch ID	090914 B15173
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-15173	MBLK
2	302	LCS-15173	LCS
3	303	1409170-001A	SAMP
4	304	1409174-001A	SAMP
5	305	1409174-001AMS	MS
6	306	1409174-001AMSD	MSD
7	307	1409176-001A	SAMP
8	308	1409275-001A	SAMP
9	309	1409275-002A	SAMP
10	310	1409275-003A	SAMP
11	311	1409275-004A	SAMP
12	312	1409275-004AMS	MS
13	313	1409275-004AMSD	MSD
14	314	1409275-005A	SAMP
15	315	1409275-006A	SAMP
16	316	1409275-~~007A~~ 009A	SAMP
17	317	1409275-~~008A~~ 010A	SAMP
18	318	1409275-~~009A~~ 011A	SAMP
19	319	#1409275-010A	SAMP
20	320	#1409275-011A	SAMP
22	321	1409275-001A 2x	SAMP
23	322	1409275-004A	SAMP
24	323	1409275-004AMS	MS
25	324	1409275-004AMSD	MSD
26	325	1409275-004PS	PS
27	326	1409275-011A 2x	SAMP

NO SAMPLE. 22. BLANKS.

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP		
5	METALS_TCLP	Recovery 1 of 4	
6	METALS_TCLP	Recovery 1 of 4	
7	METALS_TCLP		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL	Recovery 1 of 11	
13	METALS_SOIL	Recovery 1 of 11	
14	METALS_SOIL		
15	METALS_SOIL		
16	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		
20	METALS_SOIL		
22	METALS_SOIL		
23	METALS_SOIL		
24	METALS_SOIL		
25	METALS_SOIL		
26	METALS_SOIL		
27	METALS_SOIL		

Sample Information Detail Report
Document Name: 090914 B15173

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
22			
23			
24			
25			
26			
27			

Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
1	1		Calib Blank 1	Applied
2	408		ST1	Applied
3	409		ST2	Applied
4	2		ST3	Applied
5	410		ST4	Applied
6	413		ST5	Applied
7	411		ST6	
8	3		ST7	
9	412		ST8	
10	401	QC	ICV	QC Passed
11	402	QC	ICV CAT	
12	1	QC	ICB	QC Passed
13	408	QC	PQL CHECK	QC Passed
14	403	QC	ICS ELEM	QC Passed
15	404	QC	ICS	QC Passed
16	301		MB-15173	Analyzed
17	302		LCS-15173	Analyzed
18	303		1409170-001A	Analyzed
19	304		1409174-001A	Samp Limit Failed
20	305		1409174-001AMS	Analyzed
21	306		1409174-001AMSD	Analyzed
22	307		1409176-001A	Analyzed
23	308		1409275-001A	Analyzed
24	309		1409275-002A	Analyzed
25	310		1409275-003A	Analyzed
26	2	QC	CCV	QC Passed
27	1	QC	CCB	QC Passed
28	3	QC	CCV CAT	Analyzed
29	311		1409275-004A	Analyzed
30	312		1409275-004AMS	Analyzed
31	313		1409275-004AMSD	Analyzed
32	314		1409275-005A	Analyzed
33	315		1409275-006A	Analyzed
34	316		1409275-~~007A~~ 009A	Analyzed
35	317		1409275-~~008A~~ 010A	Analyzed
36	318		1409275-~~009A~~ 011A	IS Check Failed
37	319		1409275-010A	Analyzed
38	320		1409275-011A	Analyzed
39	2	QC	CCV	QC Passed
40	1	QC	CCB	QC Passed
41	3	QC	CCV CAT	Analyzed
42	321		1409275-001A 2x	Analyzed
43	322		1409275-004A	Analyzed
44	323		1409275-004AMS	Analyzed
45	324		1409275-004AMSD	Analyzed
46	325		1409275-004PS	Analyzed
47	326		1409275-011A 2x	Analyzed
48	2	QC	CCV	QC Passed
49	1	QC	CCB	QC Passed
50	3	QC	CCV CAT	Analyzed
51	7	QC	DI RINSE	QC Passed

Method: ISIS 080714 6010SOIL
Result: 090914 B15173

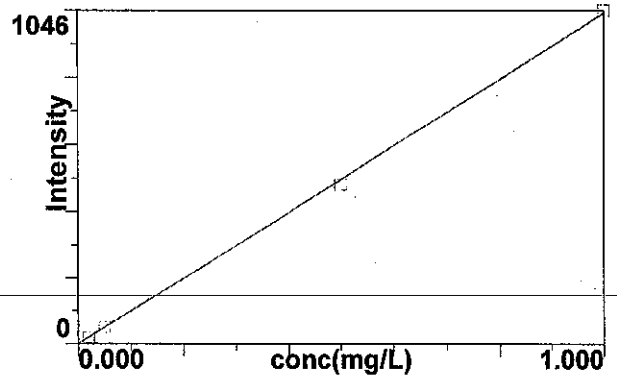
Ag 328.068

1

Al 396.153

2

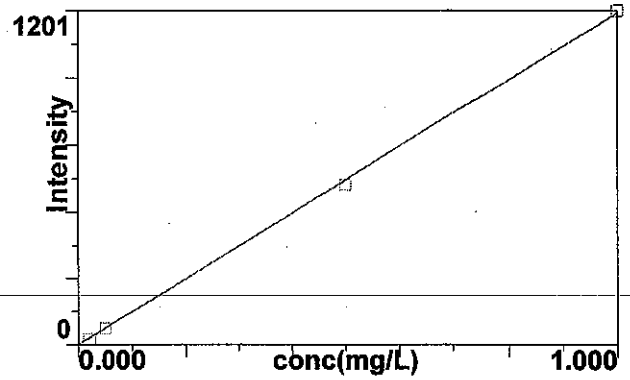
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999884

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999891

4

B 249.772

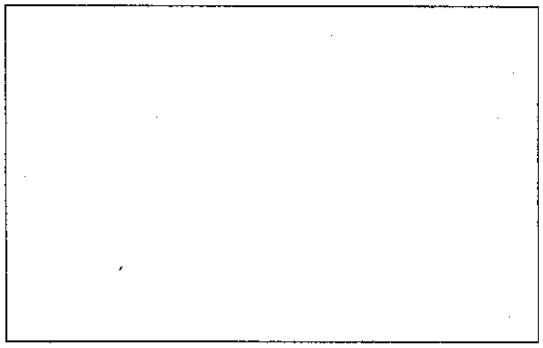
5

B 249.677

6

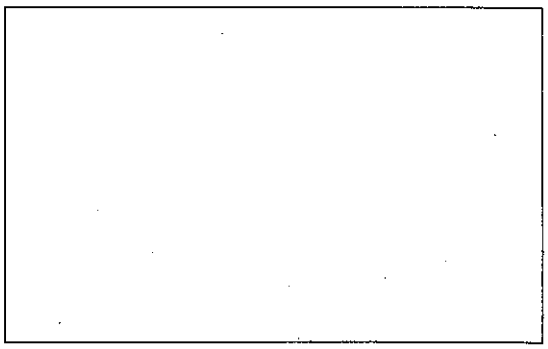
Method: ISIS 080714 6010SOIL
Result: 090914 B15173

Ba 233.527



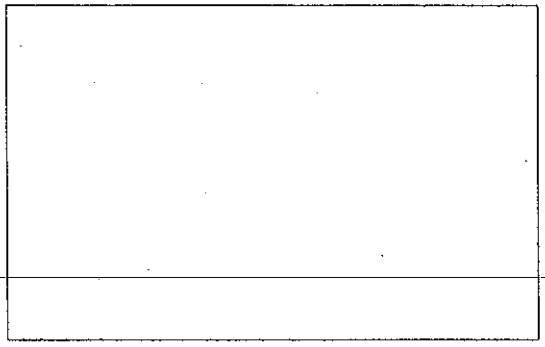
7

Be 313.107



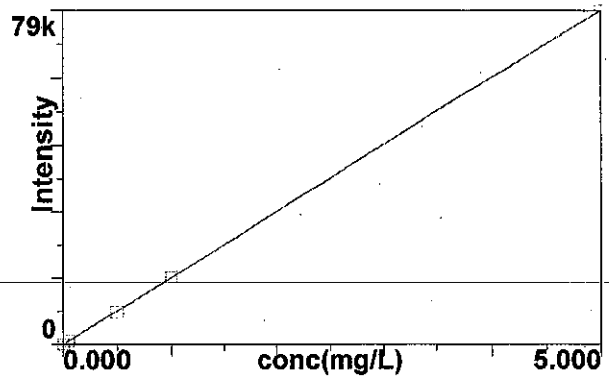
8

Ca 317.933



9

Cd 228.802



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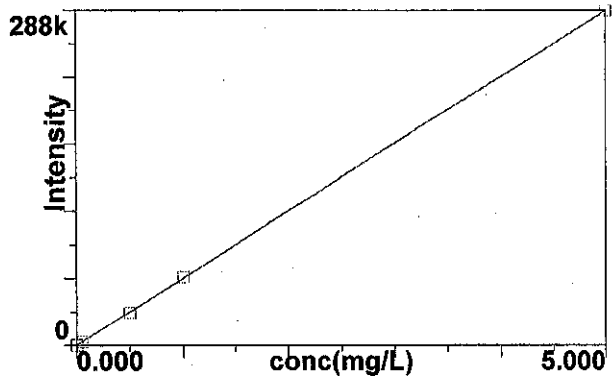
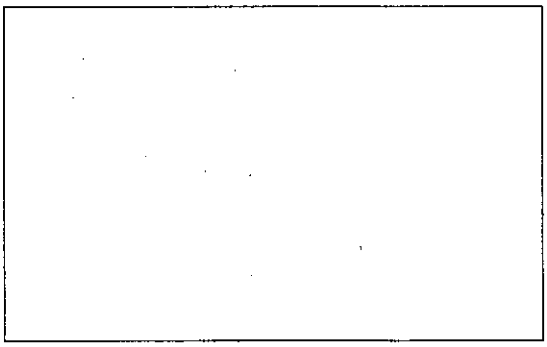
Cd 226.502



11

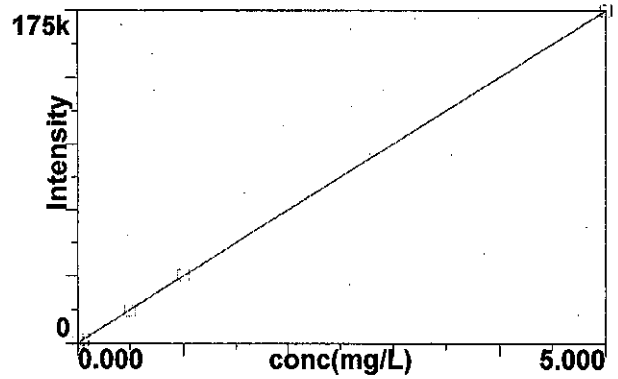
Co 228.616



12

Method: ISIS 080714 6010SOIL
Result: 090914 B15173

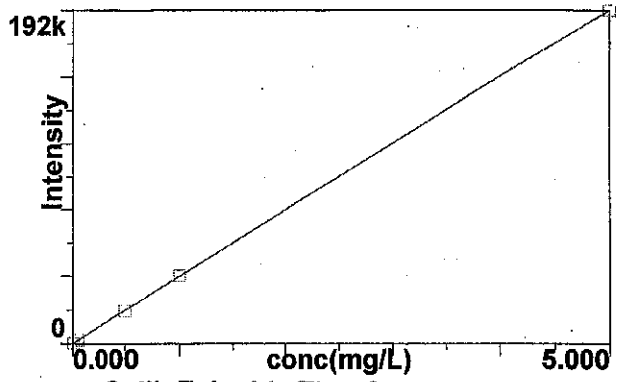
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

14

Cu 324.752

15

Fe 238.204

16

K 766.490

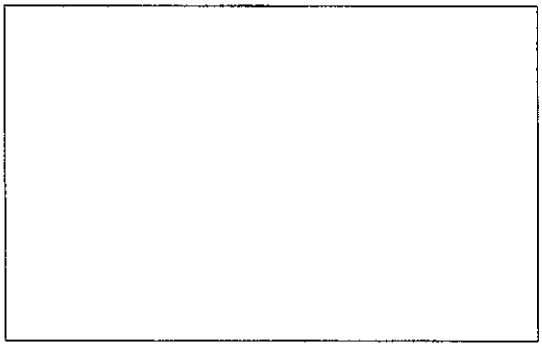
17

Mg 285.213

18

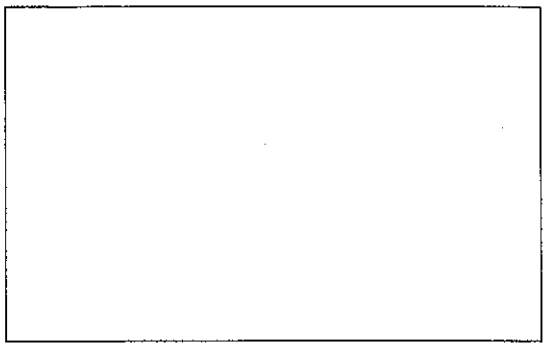
Method: ISIS 080714 6010SOIL
Result: 090914 B15173

Mn 257.610



19

Mo 202.031



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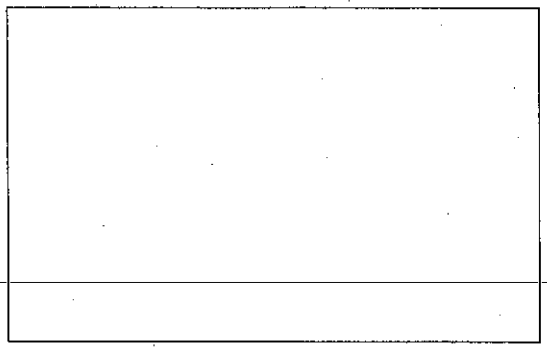
Na 589.592



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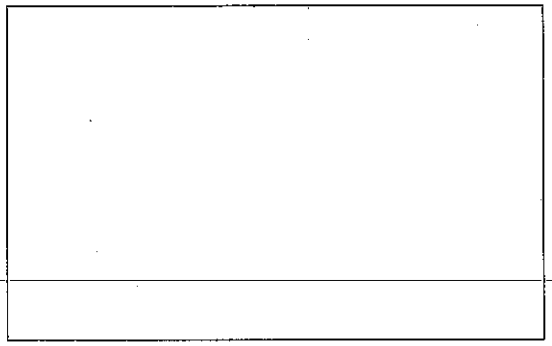
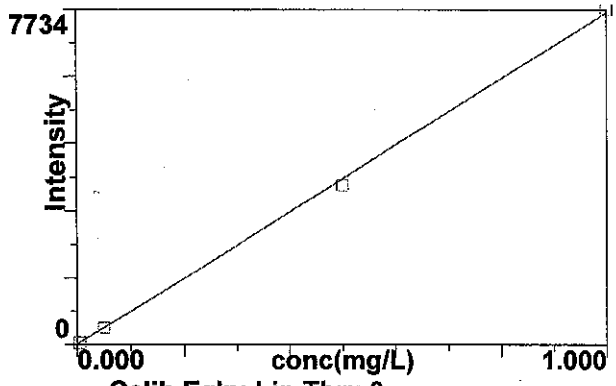
Ni 231.604



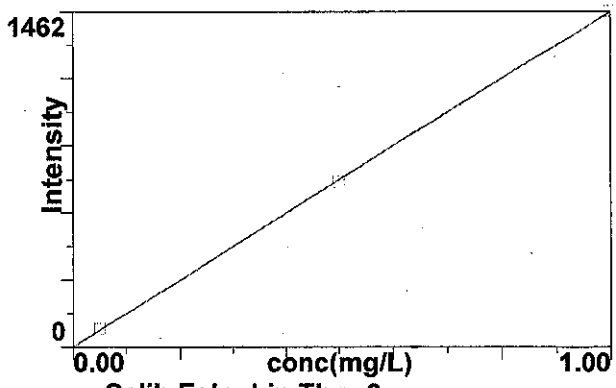
22

Pb 220.353



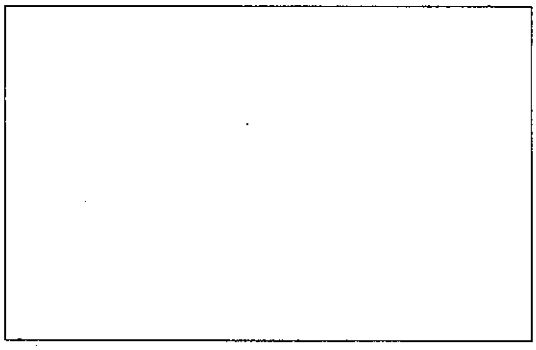
23

Pb 217.000

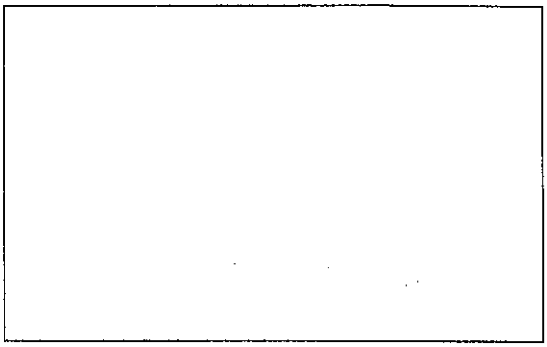


24

Sb 206.836



Se 203.985



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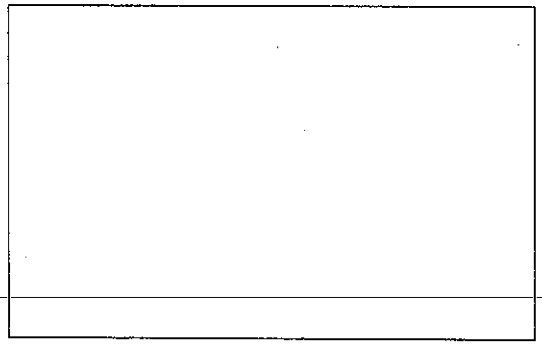
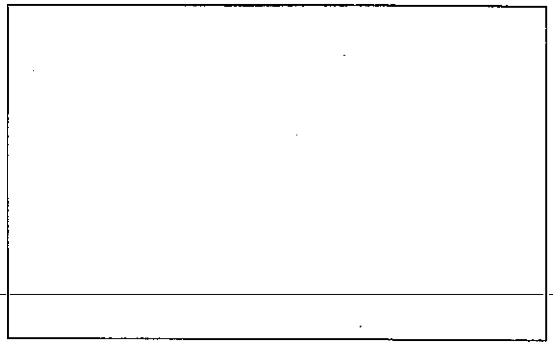
Se 196.026



26
Si 212.412



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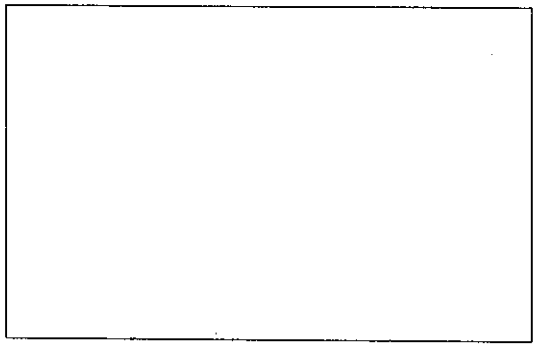
Sn 189.927



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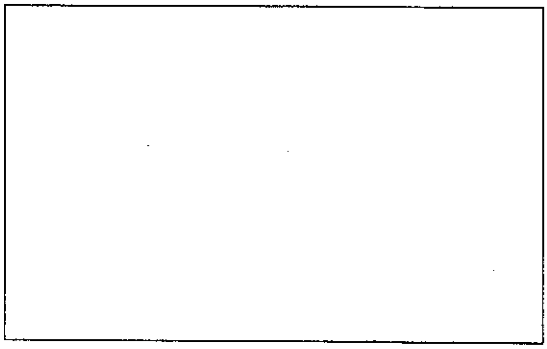
Ti 334.940

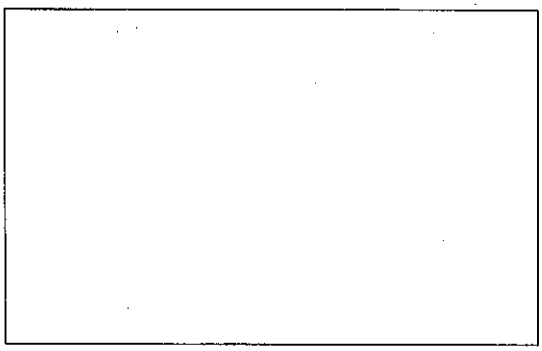


29

30

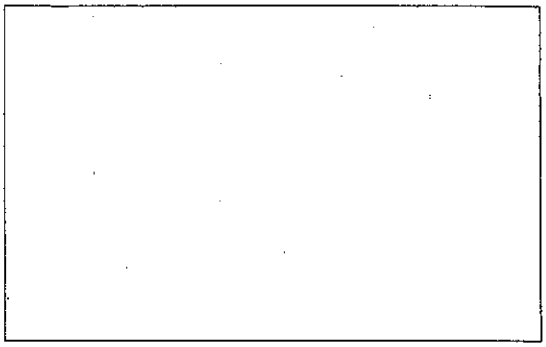
Method: ISIS 080714 6010SOIL
Result: 090914 B15173

Tl 190.801



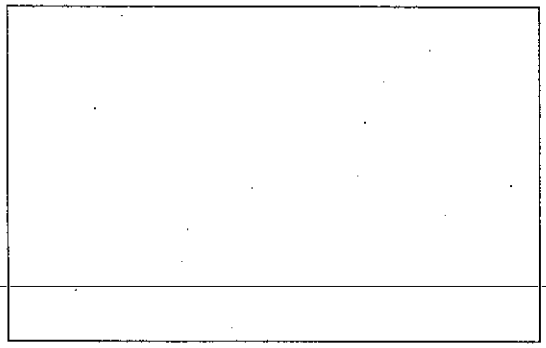
31

U 385.958



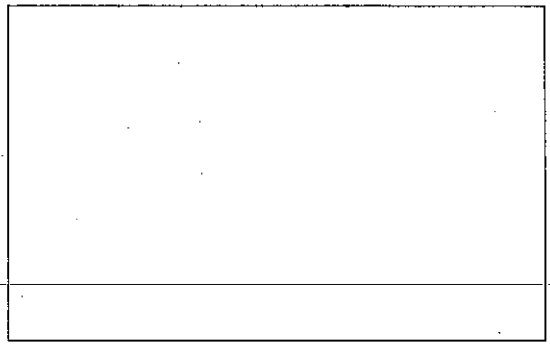
32

V 292.402



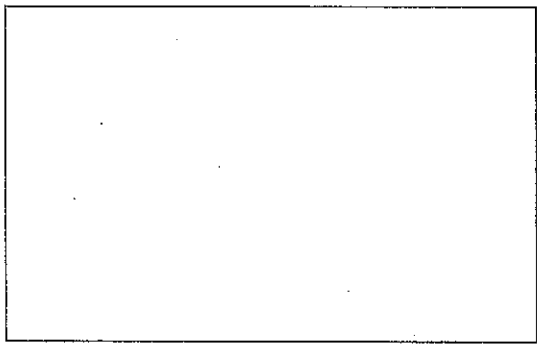
33

Zn 206.200



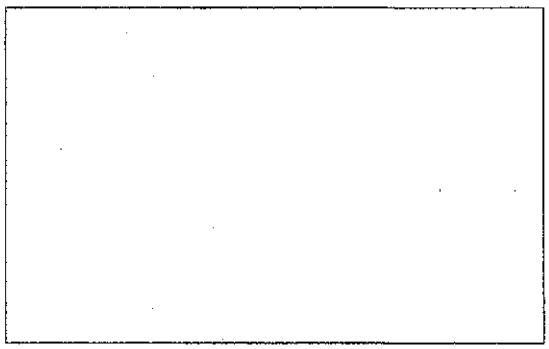
36

Sr 421.552



37

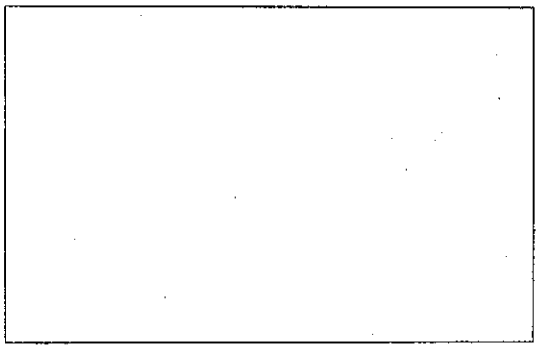
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 090914 B15173

U 424.167



39

Analysis Begun

Start Time: 9/9/2014 10:15:11 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/9/2014 8:11:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090914 B15173.sif
Batch ID: 090914 B15173
Results Data Set: 090914 B15173
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/27/2014 11:33:59 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/9/2014 10:15:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	601388.8	8942.73	1.49%	100.00	%
As 188.979†	26.8	5.90	22.00%	[0.00]	mg/L
As 193.696†	-19.5	8.82	45.12%	[0.00]	mg/L
Cd 228.802†	-48.9	2.12	4.34%	[0.00]	mg/L
Cd 226.502†	107.0	1.70	1.59%	[0.00]	mg/L
Cr 267.716†	-20.9	2.99	14.33%	[0.00]	mg/L
Cr 205.560†	-4.4	11.19	255.80%	[0.00]	mg/L
Pb 220.353†	-107.9	22.83	21.17%	[0.00]	mg/L
Pb 217.000†	8.7	11.14	128.28%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 9/9/2014 10:16:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	589257.4	3547.34	0.60%	97.983	%
As 188.979†	18.9	4.08	21.55%	[0.02]	mg/L
As 193.696†	19.2	2.88	15.04%	[0.02]	mg/L
Cd 228.802†	32.7	3.46	10.59%	[0.002]	mg/L
Cd 226.502†	119.2	12.39	10.40%	[0.002]	mg/L
Cr 267.716†	190.8	15.10	7.92%	[0.006]	mg/L
Cr 205.560†	172.9	8.74	5.05%	[0.006]	mg/L

Pb 220.353†	31.0	17.91	57.88%	[0.005] mg/L

Sequence No.: 3 — **Autosampler Location: 409**
Sample ID: ST2 — **Date Collected: 9/9/2014 10:17:51 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	591884.5	419.23	0.07%	98.420	%
As 188.979†	52.2	5.58	10.69%	[0.050]	mg/L
As 193.696†	58.3	9.04	15.50%	[0.050]	mg/L
Cd 228.802†	806.4	17.71	2.20%	[0.05]	mg/L
Cd 226.502†	2888.4	23.59	0.82%	[0.05]	mg/L
Cr 267.716†	1780.4	6.71	0.38%	[0.05]	mg/L
Cr 205.560†	1902.3	37.06	1.95%	[0.05]	mg/L
Pb 220.353†	385.8	6.77	1.76%	[0.05]	mg/L
Pb 217.000†	79.7	4.68	5.87%	[0.05]	mg/L

Sequence No.: 4 — **Autosampler Location: 2**
Sample ID: ST3 — **Date Collected: 9/9/2014 10:19:06 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	592817.9	5684.57	0.96%	98.575	%
As 188.979†	503.5	11.73	2.33%	[0.50]	mg/L
As 193.696†	579.2	15.92	2.75%	[0.50]	mg/L
Cd 228.802†	7688.2	86.06	1.12%	[0.50]	mg/L
Cd 226.502†	28056.3	125.76	0.45%	[0.50]	mg/L
Cr 267.716†	17049.2	55.94	0.33%	[0.50]	mg/L
Cr 205.560†	18700.9	25.34	0.14%	[0.50]	mg/L
Pb 220.353†	3685.2	32.69	0.89%	[0.50]	mg/L
Pb 217.000†	721.7	2.92	0.40%	[0.50]	mg/L

Sequence No.: 5 — **Autosampler Location: 410**
Sample ID: ST4 — **Date Collected: 9/9/2014 10:20:21 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	590098.1	4102.94	0.70%	98.123	%
As 188.979†	1046.3	12.18	1.16%	[1.00]	mg/L
As 193.696†	1201.2	6.18	0.51%	[1.00]	mg/L
Cd 228.802†	16026.0	183.94	1.15%	[1.00]	mg/L
Cd 226.502†	58373.4	168.02	0.29%	[1.00]	mg/L
Cr 267.716†	35487.6	82.93	0.23%	[1.00]	mg/L
Cr 205.560†	38826.2	43.22	0.11%	[1.00]	mg/L
Pb 220.353†	7734.0	105.39	1.36%	[1.00]	mg/L
Pb 217.000†	1462.4	20.10	1.37%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 9/9/2014 10:21:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	587436.6	5937.74	1.01%	97.680	%
Cd 228.802†	79385.1	179.80	0.23%	[5.00]	mg/L
Cd 226.502†	288137.4	719.93	0.25%	[5.00]	mg/L
Cr 267.716†	175013.1	370.53	0.21%	[5.00]	mg/L
Cr 205.560†	192236.2	305.76	0.16%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
As 188.979	4	Lin Thru 0	0.0	1038	0.00000	0.999884	
As 193.696	4	Lin Thru 0	0.0	1193	0.00000	0.999891	
Cd 228.802	5	Lin Thru 0	0.0	15880	0.00000	0.999994	
Cd 226.502	5	Lin Thru 0	0.0	57640	0.00000	0.999994	
Cr 267.716	5	Lin Thru 0	0.0	35010	0.00000	0.999993	
Cr 205.560	5	Lin Thru 0	0.0	38450	0.00000	0.999995	
Pb 220.353	4	Lin Thru 0	0.0	7661	0.00000	0.999820	
Pb 217.000	3	Lin Thru 0	0.0	1459	0.00000	0.999978	

User canceled analysis.

✓ MW 9/11/14

Analysis Begun

Start Time: 9/9/2014 10:22:39 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 9/9/2014 8:11:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090914 B15173.sif
Batch ID: 090914 B15173
Results Data Set: 090914 B15173
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 401
Date Collected: 9/9/2014 10:22:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	584852.2	97.250	%	0.4683				0.48%
As 188.979†	521.2	0.50193	mg/L	0.007725	0.50193	mg/L	0.007725	1.54%
QC value within limits for As 188.979 Recovery = 100.39%								
As 193.696†	588.1	0.49317	mg/L	0.014305	0.49317	mg/L	0.014305	2.90%
Cd 228.802†	7896.2	0.49731	mg/L	0.006353	0.49731	mg/L	0.006353	1.28%
QC value within limits for Cd 228.802 Recovery = 99.46%								
Cd 226.502†	28580.4	0.49583	mg/L	0.000104	0.49583	mg/L	0.000104	0.02%
Cr 267.716†	17342.2	0.49531	mg/L	0.000958	0.49531	mg/L	0.000958	0.19%
Cr 205.560†	18960.1	0.49309	mg/L	0.001917	0.49309	mg/L	0.001917	0.39%
QC value within limits for Cr 205.560 Recovery = 98.62%								
Pb 220.353†	3840.0	0.50122	mg/L	0.004574	0.50122	mg/L	0.004574	0.91%
QC value within limits for Pb 220.353 Recovery = 100.24%								
Pb 217.000†	747.9	0.51262	mg/L	0.015615	0.51262	mg/L	0.015615	3.05%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 9/9/2014 10:23:43 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 9/9/2014 8:11:10 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\090914 B15173.sif
Batch ID: 090914 B15173
Results Data Set: 090914 B15173
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 9/9/2014 10:23:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	608390.7	101.16	%	0.212				0.21%
As 188.979†	1.3	0.00127	mg/L	0.004254	0.00127	mg/L	0.004254	334.54%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.6	0.00047	mg/L	0.001932	0.00047	mg/L	0.001932	407.43%
Cd 228.802†	3.2	0.00020	mg/L	0.000254	0.00020	mg/L	0.000254	125.47%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.9	0.00012	mg/L	0.000024	0.00012	mg/L	0.000024	19.75%
Cr 267.716†	-4.3	-0.00012	mg/L	0.000112	-0.00012	mg/L	0.000112	91.94%
Cr 205.560†	-32.6	-0.00085	mg/L	0.000352	-0.00085	mg/L	0.000352	41.51%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-9.8	-0.00127	mg/L	0.001007	-0.00127	mg/L	0.001007	79.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	14.5	0.00992	mg/L	0.001358	0.00992	mg/L	0.001358	13.68%

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 9/9/2014 10:24:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	582766.1	96.903	%	0.4953				0.51%
As 188.979†	22.2	0.02134	mg/L	0.006502	0.02134	mg/L	0.006502	30.47%
QC value within limits for As 188.979 Recovery = 106.70%								
As 193.696†	27.3	0.02287	mg/L	0.001486	0.02287	mg/L	0.001486	6.50%
Cd 228.802†	32.0	0.00202	mg/L	0.000340	0.00202	mg/L	0.000340	16.84%
QC value within limits for Cd 228.802 Recovery = 100.86%								
Cd 226.502†	127.4	0.00221	mg/L	0.000142	0.00221	mg/L	0.000142	6.44%
Cr 267.716†	203.9	0.00582	mg/L	0.000282	0.00582	mg/L	0.000282	4.84%
Cr 205.560†	166.3	0.00433	mg/L	0.000391	0.00433	mg/L	0.000391	9.04%
QC value within limits for Cr 205.560 Recovery = 72.09%								
Pb 220.353†	20.8	0.00271	mg/L	0.000813	0.00271	mg/L	0.000813	30.00%
QC value within limits for Pb 220.353 Recovery = 54.22%								
Pb 217.000†	21.1	0.01445	mg/L	0.008068	0.01445	mg/L	0.008068	55.83%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 9/9/2014 10:26:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	596786.8	99.235	%	0.8600				0.87%
As 188.979†	540.6	0.52063	mg/L	0.009270	0.52063	mg/L	0.009270	1.78%
QC value within limits for As 188.979 Recovery = 104.13%								
As 193.696†	526.4	0.44139	mg/L	0.006227	0.44139	mg/L	0.006227	1.41%
Cd 228.802†	8135.2	0.51236	mg/L	0.005586	0.51236	mg/L	0.005586	1.09%
QC value within limits for Cd 228.802 Recovery = 102.47%								
Cd 226.502†	28653.4	0.49710	mg/L	0.002456	0.49710	mg/L	0.002456	0.49%
Cr 267.716†	16927.0	0.48346	mg/L	0.000453	0.48346	mg/L	0.000453	0.09%
Cr 205.560†	18381.6	0.47805	mg/L	0.002185	0.47805	mg/L	0.002185	0.46%
QC value within limits for Cr 205.560 Recovery = 95.61%								
Pb 220.353†	3501.4	0.45703	mg/L	0.005522	0.45703	mg/L	0.005522	1.21%
QC value within limits for Pb 220.353 Recovery = 91.41%								
Pb 217.000†	734.5	0.50343	mg/L	0.007812	0.50343	mg/L	0.007812	1.55%

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 9/9/2014 10:27:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	596538.9	99.194	%	0.2480				0.25%
As 188.979†	7.5	0.00724	mg/L	0.002760	0.00724	mg/L	0.002760	38.13%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-86.9	-0.07284	mg/L	0.003641	-0.07284	mg/L	0.003641	5.00%
Cd 228.802†	-16.3	-0.00103	mg/L	0.000135	-0.00103	mg/L	0.000135	13.15%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-49.0	-0.00085	mg/L	0.000148	-0.00085	mg/L	0.000148	17.45%
Cr 267.716†	20.5	0.00059	mg/L	0.000112	0.00059	mg/L	0.000112	19.17%
Cr 205.560†	-192.2	-0.00500	mg/L	0.000588	-0.00500	mg/L	0.000588	11.76%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-113.3	-0.01478	mg/L	0.000582	-0.01478	mg/L	0.000582	3.93%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	27.5	0.01884	mg/L	0.006456	0.01884	mg/L	0.006456	34.26%

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-15173
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 9/9/2014 10:28:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-15173

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

PB ONLY

Mean Data: MB-15173

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	584173.0	97.137	%	1.0064				1.04%
As 188.979†	2.9	0.00280	mg/L	0.005524	0.00280	mg/L	0.005524	197.41%
As 193.696†	-4.9	-0.00413	mg/L	0.008050	-0.00413	mg/L	0.008050	194.76%
Cd 228.802†	1.7	0.00011	mg/L	0.000233	0.00011	mg/L	0.000233	216.64%
Cd 226.502†	13.1	0.00023	mg/L	0.000124	0.00023	mg/L	0.000124	54.40%
Cr 267.716†	8.0	0.00023	mg/L	0.000226	0.00023	mg/L	0.000226	98.76%
Cr 205.560†	-22.9	-0.00060	mg/L	0.000409	-0.00060	mg/L	0.000409	68.60%
Pb 220.353†	-4.7	-0.00061	mg/L	0.001153	-0.00061	mg/L	0.001153	188.95%
Pb 217.000†	6.9	0.00470	mg/L	0.004832	0.00470	mg/L	0.004832	102.84%

Sequence No.: 17
Sample ID: LCS-15173
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 9/9/2014 10:29:59 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-15173

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

PB ONLY

Mean Data: LCS-15173

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	615471.6	102.34	%	0.499				0.49%

As 188.979†	508.3	0.48946	mg/L	0.007962	0.48946	mg/L	0.007962	1.63%
As 193.696†	574.3	0.48158	mg/L	0.008081	0.48158	mg/L	0.008081	1.68%
Cd 228.802†	7512.7	0.47315	mg/L	0.002928	0.47315	mg/L	0.002928	0.62%
Cd 226.502†	27293.3	0.47350	mg/L	0.000916	0.47350	mg/L	0.000916	0.19%
Cr 267.716†	16894.0	0.48251	mg/L	0.001781	0.48251	mg/L	0.001781	0.37%
Cr 205.560†	18560.5	0.48270	mg/L	0.002739	0.48270	mg/L	0.002739	0.57%
Pb 220.353†	3627.5	0.47348	mg/L	0.003485	0.47348	mg/L	0.003485	0.74%
Pb 217.000†	696.6	0.47745	mg/L	0.002051	0.47745	mg/L	0.002051	0.43%

Matrix Recovery Check: LCS-15173

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
As 188.979	0.50280	0.48946	0.008	mg/L	97.3
As 193.696	0.49587	0.48158	0.008	mg/L	97.1
Cd 228.802	0.50011	0.47315	0.003	mg/L	94.6
Cd 226.502	0.50023	0.47350	0.001	mg/L	94.7
Cr 267.716	0.50023	0.48251	0.002	mg/L	96.5
Cr 205.560	0.49940	0.48270	0.003	mg/L	96.7
Pb 220.353	0.49939	0.47348	0.003	mg/L	94.8
Pb 217.000	0.50470	0.47745	0.002	mg/L	94.6

Sequence No.: 18
Sample ID: 1409170-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 9/9/2014 10:31:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409170-001A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409170-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	551020.5	91.625	%	0.7991				0.87%
As 188.979†	18.8	0.01812	mg/L	0.008695	0.01812	mg/L	0.008695	47.99%
As 193.696†	-18.4	-0.01540	mg/L	0.009444	-0.01540	mg/L	0.009444	61.33%
Cd 228.802†	22.6	0.00142	mg/L	0.000550	0.00142	mg/L	0.000550	38.71%
Cd 226.502†	166.4	0.00289	mg/L	0.000079	0.00289	mg/L	0.000079	2.74%
Cr 267.716†	354.2	0.01012	mg/L	0.000467	0.01012	mg/L	0.000467	4.61%
Cr 205.560†	225.0	0.00585	mg/L	0.000595	0.00585	mg/L	0.000595	10.17%
Pb 220.353†	-10.6	-0.00138	mg/L	0.001888	-0.00138	mg/L	0.001888	136.94%
Pb 217.000†	12.4	0.00849	mg/L	0.007323	0.00849	mg/L	0.007323	86.29%

Sequence No.: 19
Sample ID: 1409174-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 9/9/2014 10:32:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409174-001A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409174-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	557226.2	92.657	%	1.0019				1.08%
As 188.979†	-1.8	-0.00175	mg/L	0.001794	-0.00175	mg/L	0.001794	102.29%
As 193.696†	-16.5	-0.01384	mg/L	0.004545	-0.01384	mg/L	0.004545	32.85%
Cd 228.802†	-29.1	-0.00183	mg/L	0.000121	-0.00183	mg/L	0.000121	6.60%

Cd 226.502†	-375.6	-0.00652 mg/L	0.000325	-0.00652 mg/L	0.000325	4.99%
Cr 267.716†	1.2	0.00003 mg/L	0.000231	0.00003 mg/L	0.000231	684.75%
Cr 205.560†	-689.2	-0.01792 mg/L	0.000430	-0.01792 mg/L	0.000430	2.40%
Concentration less than lower limit for Cr 205.560. Lower limit: -0.006 mg/L.						
Pb 220.353†	5.3	0.00069 mg/L	0.001796	0.00069 mg/L	0.001796	260.32%
Pb 217.000†	-34.1	-0.02338 mg/L	0.012355	-0.02338 mg/L	0.012355	52.84%

Sequence No.: 20
Sample ID: 1409174-001AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 305
Date Collected: 9/9/2014 10:33:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409174-001AMS

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409174-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	549939.1	91.445	%	0.6188				0.68%
As 188.979†	497.5	0.47905	mg/L	0.012161	0.47905	mg/L	0.012161	2.54%
As 193.696†	557.7	0.46768	mg/L	0.011478	0.46768	mg/L	0.011478	2.45%
Cd 228.802†	7177.0	0.45201	mg/L	0.008517	0.45201	mg/L	0.008517	1.88%
Cd 226.502†	24738.6	0.42918	mg/L	0.001795	0.42918	mg/L	0.001795	0.42%
Cr 267.716†	15129.5	0.43212	mg/L	0.008080	0.43212	mg/L	0.008080	1.87%
Cr 205.560†	15782.2	0.41044	mg/L	0.008044	0.41044	mg/L	0.008044	1.96%
Pb 220.353†	3192.8	0.41675	mg/L	0.009002	0.41675	mg/L	0.009002	2.16%
Pb 217.000†	589.9	0.40437	mg/L	0.018340	0.40437	mg/L	0.018340	4.54%

Matrix Recovery Check: 1409174-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
As 188.979	0.49825	0.47905	0.012	mg/L	96.2
As 193.696	0.48616	0.46768	0.011	mg/L	96.3
Cd 228.802	0.49817	0.45201	0.009	mg/L	90.8
Cd 226.502	0.49348	0.42918	0.002	mg/L	87.1
Cr 267.716	0.50003	0.43212	0.008	mg/L	86.4
Cr 205.560	0.48208	0.41044	0.008	mg/L	85.7
Pb 220.353	0.50069	0.41675	0.009	mg/L	83.2
Pb 217.000	0.47662	0.40437	0.018	mg/L	85.6

Sequence No.: 21
Sample ID: 1409174-001AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 306
Date Collected: 9/9/2014 10:35:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409174-001AMSD

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409174-001AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	538361.1	89.520	%	0.5637				0.63%
As 188.979†	508.3	0.48945	mg/L	0.008419	0.48945	mg/L	0.008419	1.72%
As 193.696†	558.1	0.46800	mg/L	0.008983	0.46800	mg/L	0.008983	1.92%
Cd 228.802†	7339.4	0.46224	mg/L	0.003751	0.46224	mg/L	0.003751	0.81%
Cd 226.502†	25486.1	0.44215	mg/L	0.001972	0.44215	mg/L	0.001972	0.45%
Cr 267.716†	15393.2	0.43965	mg/L	0.003502	0.43965	mg/L	0.003502	0.80%

Cr 205.560†	16012.9	0.41644 mg/L	0.003142	0.41644 mg/L	0.003142	0.75%
Pb 220.353†	3252.0	0.42447 mg/L	0.002220	0.42447 mg/L	0.002220	0.52%
Pb 217.000†	594.0	0.40716 mg/L	0.007728	0.40716 mg/L	0.007728	1.90%

Matrix Recovery Check: 1409174-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
As 188.979	0.49825	0.48945	0.008	mg/L	98.2
As 193.696	0.48616	0.46800	0.009	mg/L	96.4
Cd 228.802	0.49817	0.46224	0.004	mg/L	92.8
Cd 226.502	0.49348	0.44215	0.002	mg/L	89.7
Cr 267.716	0.50003	0.43965	0.004	mg/L	87.9
Cr 205.560	0.48208	0.41644	0.003	mg/L	86.9
Pb 220.353	0.50069	0.42447	0.002	mg/L	84.8
Pb 217.000	0.47662	0.40716	0.008	mg/L	86.1

Sequence No.: 22
Sample ID: 1409176-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 307
Date Collected: 9/9/2014 10:36:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409176-001A

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409176-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	547426.5	91.027	%	0.2855				0.31%
As 188.979†	16.8	0.01621	mg/L	0.006669	0.01621	mg/L	0.006669	41.14%
As 193.696†	-7.4	-0.00620	mg/L	0.001976	-0.00620	mg/L	0.001976	31.89%
Cd 228.802†	34.0	0.00214	mg/L	0.000307	0.00214	mg/L	0.000307	14.32%
Cd 226.502†	182.4	0.00316	mg/L	0.000189	0.00316	mg/L	0.000189	5.97%
Cr 267.716†	133.8	0.00382	mg/L	0.000420	0.00382	mg/L	0.000420	11.00%
Cr 205.560†	5.2	0.00014	mg/L	0.000208	0.00014	mg/L	0.000208	153.64%
Pb 220.353†	5.8	0.00075	mg/L	0.000433	0.00075	mg/L	0.000433	57.63%
Pb 217.000†	0.1	0.00005	mg/L	0.013093	0.00005	mg/L	0.013093	>999.9%

Sequence No.: 23
Sample ID: 1409275-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 308
Date Collected: 9/9/2014 10:37:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-001A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	699564.7	116.32	%	1.055				0.91%
As 188.979†	41.7	0.04020	mg/L	0.007176	0.04020	mg/L	0.007176	17.85%
As 193.696†	-210.8	-0.17680	mg/L	0.013133	-0.17680	mg/L	0.013133	7.43%
Cd 228.802†	-7.7	-0.00049	mg/L	0.000196	-0.00049	mg/L	0.000196	40.18%
Cd 226.502†	-616.0	-0.01069	mg/L	0.000153	-0.01069	mg/L	0.000153	1.43%
Cr 267.716†	4816.1	0.13755	mg/L	0.002041	0.13755	mg/L	0.002041	1.48%
Cr 205.560†	4334.1	0.11272	mg/L	0.001217	0.11272	mg/L	0.001217	1.08%
Pb 220.353†	9526.4	1.2434	mg/L	0.01756	1.2434	mg/L	0.01756	1.41%
Pb 217.000†	2025.5	1.3884	mg/L	0.01571	1.3884	mg/L	0.01571	1.13%

Sequence No.: 24
Sample ID: 1409275-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 309
Date Collected: 9/9/2014 10:38:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-002A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	666061.5	110.75	%	1.228				1.11%
As 188.979†	82.8	0.07973	mg/L	0.005466	0.07973	mg/L	0.005466	6.86%
As 193.696†	-134.7	-0.11295	mg/L	0.003180	-0.11295	mg/L	0.003180	2.82%
Cd 228.802†	-24.6	-0.00155	mg/L	0.000187	-0.00155	mg/L	0.000187	12.04%
Cd 226.502†	-479.7	-0.00832	mg/L	0.000029	-0.00832	mg/L	0.000029	0.35%
Cr 267.716†	3183.3	0.09092	mg/L	0.001229	0.09092	mg/L	0.001229	1.35%
Cr 205.560†	2843.3	0.07395	mg/L	0.001256	0.07395	mg/L	0.001256	1.70%
Pb 220.353†	152.5	0.01990	mg/L	0.000158	0.01990	mg/L	0.000158	0.80%
Pb 217.000†	90.9	0.06232	mg/L	0.006350	0.06232	mg/L	0.006350	10.19%

Sequence No.: 25
Sample ID: 1409275-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 9/9/2014 10:40:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-003A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	710008.9	118.06	%	1.582				1.34%
As 188.979†	53.5	0.05152	mg/L	0.005751	0.05152	mg/L	0.005751	11.16%
As 193.696†	-249.4	-0.20911	mg/L	0.007413	-0.20911	mg/L	0.007413	3.55%
Cd 228.802†	-14.5	-0.00091	mg/L	0.000156	-0.00091	mg/L	0.000156	17.19%
Cd 226.502†	-704.0	-0.01221	mg/L	0.000111	-0.01221	mg/L	0.000111	0.91%
Cr 267.716†	5414.8	0.15465	mg/L	0.001789	0.15465	mg/L	0.001789	1.16%
Cr 205.560†	4902.0	0.12748	mg/L	0.001949	0.12748	mg/L	0.001949	1.53%
Pb 220.353†	570.8	0.07451	mg/L	0.001643	0.07451	mg/L	0.001643	2.20%
Pb 217.000†	234.8	0.16096	mg/L	0.010040	0.16096	mg/L	0.010040	6.24%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/9/2014 10:41:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	607281.3	100.98	%	0.303				0.30%
As 188.979†	497.0	0.47864	mg/L	0.007266	0.47864	mg/L	0.007266	1.52%
QC value within limits for As 188.979 Recovery = 95.73%								
As 193.696†	563.8	0.47277	mg/L	0.007199	0.47277	mg/L	0.007199	1.52%
Cd 228.802†	7560.4	0.47616	mg/L	0.003129	0.47616	mg/L	0.003129	0.66%
QC value within limits for Cd 228.802 Recovery = 95.23%								
Cd 226.502†	27547.0	0.47790	mg/L	0.001034	0.47790	mg/L	0.001034	0.22%
Cr 267.716†	16700.3	0.47698	mg/L	0.000313	0.47698	mg/L	0.000313	0.07%
Cr 205.560†	18249.9	0.47462	mg/L	0.000903	0.47462	mg/L	0.000903	0.19%
QC value within limits for Cr 205.560 Recovery = 94.92%								
Pb 220.353†	3645.1	0.47578	mg/L	0.003519	0.47578	mg/L	0.003519	0.74%
QC value within limits for Pb 220.353 Recovery = 95.16%								
Pb 217.000†	696.3	0.47729	mg/L	0.016731	0.47729	mg/L	0.016731	3.51%
All analyte(s) passed QC.								

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/9/2014 10:42:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	618551.5	102.85	%	0.319				0.31%
As 188.979†	3.7	0.00358	mg/L	0.003976	0.00358	mg/L	0.003976	110.92%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.4	0.00030	mg/L	0.004576	0.00030	mg/L	0.004576	>999.9%
Cd 228.802†	-0.6	-0.00004	mg/L	0.000376	-0.00004	mg/L	0.000376	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.5	0.00011	mg/L	0.000179	0.00011	mg/L	0.000179	158.87%
Cr 267.716†	3.4	0.00010	mg/L	0.000069	0.00010	mg/L	0.000069	71.33%
Cr 205.560†	-27.9	-0.00073	mg/L	0.000211	-0.00073	mg/L	0.000211	29.06%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-4.4	-0.00057	mg/L	0.001766	-0.00057	mg/L	0.001766	308.58%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	15.4	0.01055	mg/L	0.005349	0.01055	mg/L	0.005349	50.70%
All analyte(s) passed QC.								

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/9/2014 10:43:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

9/9/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	615767.1	102.39	%	1.103				1.08%
As 188.979†	1.0	0.00099	mg/L	0.005042	0.00099	mg/L	0.005042	507.20%
As 193.696†	-2.7	-0.00224	mg/L	0.007125	-0.00224	mg/L	0.007125	318.76%
Cd 228.802†	0.8	0.00005	mg/L	0.000502	0.00005	mg/L	0.000502	>999.9%

Cd 226.502†	0.9	0.00002 mg/L	0.000029	0.00002 mg/L	0.000029	183.13%
Cr 267.716†	-2.9	-0.00008 mg/L	0.000219	-0.00008 mg/L	0.000219	266.75%
Cr 205.560†	-34.2	-0.00089 mg/L	0.000641	-0.00089 mg/L	0.000641	71.99%
Pb 220.353†	-5.0	-0.00065 mg/L	0.000052	-0.00065 mg/L	0.000052	7.98%
Pb 217.000†	4.3	0.00293 mg/L	0.002731	0.00293 mg/L	0.002731	93.33%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: 1409275-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 311
Date Collected: 9/9/2014 10:45:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-004A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	668123.7	111.10	%	1.081				0.97%
As 188.979†	79.0	0.07607	mg/L	0.003168	0.07607	mg/L	0.003168	4.16%
As 193.696†	-174.9	-0.14668	mg/L	0.008237	-0.14668	mg/L	0.008237	5.62%
Cd 228.802†	-21.0	-0.00133	mg/L	0.000398	-0.00133	mg/L	0.000398	30.06%
Cd 226.502†	-587.5	-0.01019	mg/L	0.000028	-0.01019	mg/L	0.000028	0.27%
Cr 267.716†	4166.3	0.11899	mg/L	0.001618	0.11899	mg/L	0.001618	1.36%
Cr 205.560†	3738.2	0.09722	mg/L	0.002130	0.09722	mg/L	0.002130	2.19%
Pb 220.353†	1047.8	0.13676	mg/L	0.001694	0.13676	mg/L	0.001694	1.24%
Pb 217.000†	294.5	0.20184	mg/L	0.007764	0.20184	mg/L	0.007764	3.85%

Sequence No.: 30
Sample ID: 1409275-004AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 312
Date Collected: 9/9/2014 10:46:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004AMS

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-004AMS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	679217.5	112.94	%	1.644				1.46%
As 188.979†	483.7	0.46582	mg/L	0.009555	0.46582	mg/L	0.009555	2.05%
As 193.696†	241.1	0.20221	mg/L	0.009740	0.20221	mg/L	0.009740	4.82%
Cd 228.802†	6057.8	0.38152	mg/L	0.006050	0.38152	mg/L	0.006050	1.59%
Cd 226.502†	19946.9	0.34605	mg/L	0.001063	0.34605	mg/L	0.001063	0.31%
Cr 267.716†	17415.7	0.49741	mg/L	0.001974	0.49741	mg/L	0.001974	0.40%
Cr 205.560†	18128.6	0.47146	mg/L	0.007274	0.47146	mg/L	0.007274	1.54%
Pb 220.353†	3638.8	0.47495	mg/L	0.005656	0.47495	mg/L	0.005656	1.19%
Pb 217.000†	871.4	0.59729	mg/L	0.008599	0.59729	mg/L	0.008599	1.44%

Matrix Recovery Check: 1409275-004AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
As 188.979	0.57607	0.46582	0.010	mg/L	77.9
As 193.696	0.35332	0.20221	0.010	mg/L	69.8
Cd 228.802	0.49867	0.38152	0.006	mg/L	76.6
Cd 226.502	0.48981	0.34605	0.001	mg/L	71.2
Cr 267.716	0.61899	0.49741	0.002	mg/L	75.7

Cr 205.560	0.59722	0.47146	0.007	mg/L	74.8
Pb 220.353	0.63676	0.47495	0.006	mg/L	67.6
Pb 217.000	0.70184	0.59729	0.009	mg/L	79.1

Sequence No.: 31
Sample ID: 1409275-004AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 313
Date Collected: 9/9/2014 10:47:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004AMSD

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

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Mean Data: 1409275-004AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	660549.4	109.84	%	0.624				0.57%
As 188.979†	511.1	0.49218	mg/L	0.006602	0.49218	mg/L	0.006602	1.34%
As 193.696†	260.2	0.21815	mg/L	0.003829	0.21815	mg/L	0.003829	1.76%
Cd 228.802†	6329.0	0.39860	mg/L	0.003900	0.39860	mg/L	0.003900	0.98%
Cd 226.502†	20837.5	0.36150	mg/L	0.000286	0.36150	mg/L	0.000286	0.08%
Cr 267.716†	17883.4	0.51077	mg/L	0.002404	0.51077	mg/L	0.002404	0.47%
Cr 205.560†	18672.7	0.48562	mg/L	0.004946	0.48562	mg/L	0.004946	1.02%
Pb 220.353†	3744.9	0.48881	mg/L	0.005596	0.48881	mg/L	0.005596	1.14%
Pb 217.000†	891.3	0.61093	mg/L	0.013797	0.61093	mg/L	0.013797	2.26%

Matrix Recovery Check: 1409275-004AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
As 188.979	0.57607	0.49218	0.007	mg/L	83.2
As 193.696	0.35332	0.21815	0.004	mg/L	73.0
Cd 228.802	0.49867	0.39860	0.004	mg/L	80.0
Cd 226.502	0.48981	0.36150	0.000	mg/L	74.3
Cr 267.716	0.61899	0.51077	0.002	mg/L	78.4
Cr 205.560	0.59722	0.48562	0.005	mg/L	77.7
Pb 220.353	0.63676	0.48881	0.006	mg/L	70.4
Pb 217.000	0.70184	0.61093	0.014	mg/L	81.8

Sequence No.: 32
Sample ID: 1409275-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 314
Date Collected: 9/9/2014 10:49:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-005A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-005A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	640663.3	106.53	%	0.565				0.53%
As 188.979†	76.4	0.07359	mg/L	0.008506	0.07359	mg/L	0.008506	11.56%
As 193.696†	-186.7	-0.15656	mg/L	0.003413	-0.15656	mg/L	0.003413	2.18%
Cd 228.802†	-23.6	-0.00149	mg/L	0.000271	-0.00149	mg/L	0.000271	18.25%
Cd 226.502†	-514.4	-0.00892	mg/L	0.000142	-0.00892	mg/L	0.000142	1.59%
Cr 267.716†	4052.6	0.11575	mg/L	0.001386	0.11575	mg/L	0.001386	1.20%
Cr 205.560†	3671.6	0.09549	mg/L	0.001108	0.09549	mg/L	0.001108	1.16%
Pb 220.353†	1000.5	0.13058	mg/L	0.002778	0.13058	mg/L	0.002778	2.13%
Pb 217.000†	297.9	0.20417	mg/L	0.010730	0.20417	mg/L	0.010730	5.26%

Sequence No.: 33
Sample ID: 1409275-006A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 315
Date Collected: 9/9/2014 10:50:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-006A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-006A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	643547.9	107.01	%	0.726				0.68%
As 188.979†	88.6	0.08535	mg/L	0.003972	0.08535	mg/L	0.003972	4.65%
As 193.696†	-187.4	-0.15716	mg/L	0.006855	-0.15716	mg/L	0.006855	4.36%
Cd 228.802†	-20.0	-0.00126	mg/L	0.000194	-0.00126	mg/L	0.000194	15.39%
Cd 226.502†	-544.6	-0.00945	mg/L	0.000160	-0.00945	mg/L	0.000160	1.70%
Cr 267.716†	4404.3	0.12579	mg/L	0.000587	0.12579	mg/L	0.000587	0.47%
Cr 205.560†	4024.8	0.10467	mg/L	0.000860	0.10467	mg/L	0.000860	0.82%
Pb 220.353†	588.1	0.07676	mg/L	0.000202	0.07676	mg/L	0.000202	0.26%
Pb 217.000†	218.6	0.14983	mg/L	0.009548	0.14983	mg/L	0.009548	6.37%

Sequence No.: 34 007A
Sample ID: 1409275-~~007A~~
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 316
Date Collected: 9/9/2014 10:51:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-~~007A~~

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-~~007A~~

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	617656.4	102.71	%	0.734				0.71%
As 188.979†	77.6	0.07470	mg/L	0.003049	0.07470	mg/L	0.003049	4.08%
As 193.696†	-146.7	-0.12304	mg/L	0.012609	-0.12304	mg/L	0.012609	10.25%
Cd 228.802†	-28.9	-0.00182	mg/L	0.000472	-0.00182	mg/L	0.000472	25.96%
Cd 226.502†	-432.1	-0.00750	mg/L	0.000102	-0.00750	mg/L	0.000102	1.36%
Cr 267.716†	3430.2	0.09797	mg/L	0.001054	0.09797	mg/L	0.001054	1.08%
Cr 205.560†	3119.1	0.08112	mg/L	0.001348	0.08112	mg/L	0.001348	1.66%
Pb 220.353†	576.6	0.07526	mg/L	0.001123	0.07526	mg/L	0.001123	1.49%
Pb 217.000†	205.1	0.14057	mg/L	0.010233	0.14057	mg/L	0.010233	7.28%

Sequence No.: 35 010A
Sample ID: 1409275-~~008A~~
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 317
Date Collected: 9/9/2014 10:52:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-~~008A~~

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-~~008A~~

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	641643.8	106.69	%	0.910				0.85%
As 188.979†	93.2	0.08974	mg/L	0.003735	0.08974	mg/L	0.003735	4.16%
As 193.696†	-145.3	-0.12183	mg/L	0.004850	-0.12183	mg/L	0.004850	3.98%
Cd 228.802†	-28.4	-0.00179	mg/L	0.000241	-0.00179	mg/L	0.000241	13.47%
Cd 226.502†	-471.9	-0.00819	mg/L	0.000244	-0.00819	mg/L	0.000244	2.98%
Cr 267.716†	3432.7	0.09804	mg/L	0.000780	0.09804	mg/L	0.000780	0.80%
Cr 205.560†	3049.0	0.07929	mg/L	0.000671	0.07929	mg/L	0.000671	0.85%
Pb 220.353†	1533.1	0.20011	mg/L	0.000839	0.20011	mg/L	0.000839	0.42%
Pb 217.000†	409.5	0.28070	mg/L	0.005371	0.28070	mg/L	0.005371	1.91%

Sequence No.: 36 0114
Sample ID: 1409275-~~009A~~
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 318
Date Collected: 9/9/2014 10:54:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-~~009A~~

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-~~009A~~

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	741018.5	123.22	%	0.645				0.52%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 123.2%								
As 188.979†	58.6	0.05642	mg/L	0.004017	0.05642	mg/L	0.004017	7.12%
As 193.696†	-355.9	-0.29847	mg/L	0.004908	-0.29847	mg/L	0.004908	1.64%
Cd 228.802†	-14.4	-0.00090	mg/L	0.000098	-0.00090	mg/L	0.000098	10.81%
Cd 226.502†	-849.5	-0.01474	mg/L	0.000180	-0.01474	mg/L	0.000180	1.22%
Cr 267.716†	6663.3	0.19031	mg/L	0.000936	0.19031	mg/L	0.000936	0.49%
Cr 205.560†	6026.0	0.15672	mg/L	0.000322	0.15672	mg/L	0.000322	0.21%
Pb 220.353†	353.6	0.04616	mg/L	0.002109	0.04616	mg/L	0.002109	4.57%
Pb 217.000†	234.2	0.16051	mg/L	0.008071	0.16051	mg/L	0.008071	5.03%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 37
Sample ID: 1409275-010A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 319
Date Collected: 9/9/2014 10:55:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

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Nebulizer Parameters: 1409275-010A

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

*NO SAMPLE. BLANKS RUN AT IN PLACE OF SAMPLE

Mean Data: 1409275-010A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	630263.9	104.80	%	0.736				0.70%
As 188.979†	9.6	0.00923	mg/L	0.004915	0.00923	mg/L	0.004915	53.22%
As 193.696†	-14.6	-0.01223	mg/L	0.002478	-0.01223	mg/L	0.002478	20.26%
Cd 228.802†	3.0	0.00019	mg/L	0.000223	0.00019	mg/L	0.000223	119.10%
Cd 226.502†	5.3	0.00009	mg/L	0.000084	0.00009	mg/L	0.000084	91.84%
Cr 267.716†	6.1	0.00017	mg/L	0.000190	0.00017	mg/L	0.000190	109.19%
Cr 205.560†	-57.5	-0.00149	mg/L	0.000817	-0.00149	mg/L	0.000817	54.66%
Pb 220.353†	-16.4	-0.00214	mg/L	0.000599	-0.00214	mg/L	0.000599	28.03%
Pb 217.000†	7.8	0.00533	mg/L	0.004439	0.00533	mg/L	0.004439	83.35%

Sequence No.: 38
Autosampler Location: 320

Sample ID: 1409275-011A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 9/9/2014 10:56:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

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Nebulizer Parameters: 1409275-011A

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409275-011A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	633075.3	105.27	%	0.458				0.43%
As 188.979†	7.6	0.00731	mg/L	0.004013	0.00731	mg/L	0.004013	54.88%
As 193.696†	-11.2	-0.00940	mg/L	0.003186	-0.00940	mg/L	0.003186	33.90%
Cd 228.802†	5.7	0.00036	mg/L	0.000233	0.00036	mg/L	0.000233	65.52%
Cd 226.502†	10.5	0.00018	mg/L	0.000124	0.00018	mg/L	0.000124	68.28%
Cr 267.716†	9.3	0.00026	mg/L	0.000248	0.00026	mg/L	0.000248	93.63%
Cr 205.560†	-34.7	-0.00090	mg/L	0.000456	-0.00090	mg/L	0.000456	50.61%
Pb 220.353†	-12.9	-0.00169	mg/L	0.001871	-0.00169	mg/L	0.001871	110.91%
Pb 217.000†	7.5	0.00512	mg/L	0.008740	0.00512	mg/L	0.008740	170.76%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/9/2014 10:57:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	601775.5	100.06	%	0.670				0.67%
As 188.979†	512.3	0.49336	mg/L	0.011962	0.49336	mg/L	0.011962	2.42%
QC value within limits for As 188.979 Recovery = 98.67%								
As 193.696†	578.1	0.48473	mg/L	0.014383	0.48473	mg/L	0.014383	2.97%
Cd 228.802†	7622.1	0.48005	mg/L	0.006094	0.48005	mg/L	0.006094	1.27%
QC value within limits for Cd 228.802 Recovery = 96.01%								
Cd 226.502†	27831.7	0.48284	mg/L	0.000164	0.48284	mg/L	0.000164	0.03%
Cr 267.716†	16838.4	0.48093	mg/L	0.000521	0.48093	mg/L	0.000521	0.11%
Cr 205.560†	18513.0	0.48146	mg/L	0.001383	0.48146	mg/L	0.001383	0.29%
QC value within limits for Cr 205.560 Recovery = 96.29%								
Pb 220.353†	3679.8	0.48031	mg/L	0.007629	0.48031	mg/L	0.007629	1.59%
QC value within limits for Pb 220.353 Recovery = 96.06%								
Pb 217.000†	709.7	0.48646	mg/L	0.011096	0.48646	mg/L	0.011096	2.28%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/9/2014 10:59:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	609182.5	101.30	%	1.369				1.35%
As 188.979†	3.2	0.00309	mg/L	0.003592	0.00309	mg/L	0.003592	116.25%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.6	-0.00046	mg/L	0.004241	-0.00046	mg/L	0.004241	915.84%
Cd 228.802†	-3.7	-0.00023	mg/L	0.000526	-0.00023	mg/L	0.000526	225.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	5.8	0.00010	mg/L	0.000069	0.00010	mg/L	0.000069	68.28%
Cr 267.716†	-6.6	-0.00019	mg/L	0.000351	-0.00019	mg/L	0.000351	186.65%
Cr 205.560†	-22.6	-0.00059	mg/L	0.000323	-0.00059	mg/L	0.000323	54.86%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-13.8	-0.00180	mg/L	0.000368	-0.00180	mg/L	0.000368	20.51%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	1.0	0.00067	mg/L	0.003957	0.00067	mg/L	0.003957	586.35%

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/9/2014 11:00:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

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Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	611968.7	101.76	%	0.808				0.79%
As 188.979†	0.2	0.00024	mg/L	0.000679	0.00024	mg/L	0.000679	284.17%
As 193.696†	-1.1	-0.00088	mg/L	0.001592	-0.00088	mg/L	0.001592	180.72%
Cd 228.802†	-3.8	-0.00024	mg/L	0.000266	-0.00024	mg/L	0.000266	110.13%
Cd 226.502†	10.7	0.00019	mg/L	0.000007	0.00019	mg/L	0.000007	3.97%
Cr 267.716†	0.2	0.00000	mg/L	0.000312	0.00000	mg/L	0.000312	>999.9%
Cr 205.560†	-17.8	-0.00046	mg/L	0.000239	-0.00046	mg/L	0.000239	51.73%
Pb 220.353†	-14.6	-0.00191	mg/L	0.001327	-0.00191	mg/L	0.001327	69.61%
Pb 217.000†	9.8	0.00672	mg/L	0.005559	0.00672	mg/L	0.005559	82.72%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1409275-001A 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 321
Date Collected: 9/9/2014 11:01:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-001A 2x

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-001A 2x

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	655721.8	109.03	%	0.631				0.58%
As 188.979†	20.2	0.01945	mg/L	0.002648	0.01945	mg/L	0.002648	13.62%
As 193.696†	-116.4	-0.09760	mg/L	0.004548	-0.09760	mg/L	0.004548	4.66%
Cd 228.802†	-11.6	-0.00073	mg/L	0.000031	-0.00073	mg/L	0.000031	4.22%
Cd 226.502†	-362.2	-0.00628	mg/L	0.000075	-0.00628	mg/L	0.000075	1.20%
Cr 267.716†	2777.6	0.07933	mg/L	0.000303	0.07933	mg/L	0.000303	0.38%

Cr 205.560†	2459.0	0.06395 mg/L	0.000680	0.06395 mg/L	0.000680	1.06%
Pb 220.353†	5540.6	0.72319 mg/L	0.004108	0.72319 mg/L	0.004108	0.57%
Pb 217.000†	1145.8	0.78534 mg/L	0.006182	0.78534 mg/L	0.006182	0.79%

Sequence No.: 43
Sample ID: 1409275-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 322
Date Collected: 9/9/2014 11:02:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004A

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409275-004A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	658706.7	109.53	%	1.537				1.40%
As 188.979†	86.9	0.08366	mg/L	0.002905	0.08366	mg/L	0.002905	3.47%
As 193.696†	-170.4	-0.14288	mg/L	0.006691	-0.14288	mg/L	0.006691	4.68%
Cd 228.802†	-23.4	-0.00147	mg/L	0.000288	-0.00147	mg/L	0.000288	19.56%
Cd 226.502†	-583.9	-0.01013	mg/L	0.000088	-0.01013	mg/L	0.000088	0.87%
Cr 267.716†	4199.3	0.11994	mg/L	0.000983	0.11994	mg/L	0.000983	0.82%
Cr 205.560†	3741.1	0.09729	mg/L	0.001336	0.09729	mg/L	0.001336	1.37%
Pb 220.353†	1064.4	0.13894	mg/L	0.002426	0.13894	mg/L	0.002426	1.75%
Pb 217.000†	313.5	0.21487	mg/L	0.014118	0.21487	mg/L	0.014118	6.57%

Sequence No.: 44
Sample ID: 1409275-004AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 323
Date Collected: 9/9/2014 11:04:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004AMS

Analyte	Back Pressure	Flow
All	406.0 kPa	0.55 L/min

Mean Data: 1409275-004AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	676547.8	112.50	%	0.523				0.46%
As 188.979†	492.4	0.47414	mg/L	0.008851	0.47414	mg/L	0.008851	1.87%
As 193.696†	243.8	0.20444	mg/L	0.002776	0.20444	mg/L	0.002776	1.36%
Cd 228.802†	6107.8	0.38467	mg/L	0.003417	0.38467	mg/L	0.003417	0.89%
Cd 226.502†	20035.8	0.34759	mg/L	0.000705	0.34759	mg/L	0.000705	0.20%
Cr 267.716†	17490.0	0.49954	mg/L	0.000187	0.49954	mg/L	0.000187	0.04%
Cr 205.560†	18292.3	0.47572	mg/L	0.003109	0.47572	mg/L	0.003109	0.65%
Pb 220.353†	3678.0	0.48007	mg/L	0.001761	0.48007	mg/L	0.001761	0.37%
Pb 217.000†	877.5	0.60145	mg/L	0.010444	0.60145	mg/L	0.010444	1.74%

Sequence No.: 45
Sample ID: 1409275-004AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 324
Date Collected: 9/9/2014 11:05:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004AMSD

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409275-004AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	658439.6	109.49	%	0.268				0.24%
As 188.979†	504.5	0.48582	mg/L	0.009814	0.48582	mg/L	0.009814	2.02%
As 193.696†	259.8	0.21787	mg/L	0.007750	0.21787	mg/L	0.007750	3.56%
Cd 228.802†	6321.2	0.39811	mg/L	0.001088	0.39811	mg/L	0.001088	0.27%
Cd 226.502†	20772.9	0.36038	mg/L	0.001333	0.36038	mg/L	0.001333	0.37%
Cr 267.716†	17922.9	0.51190	mg/L	0.000244	0.51190	mg/L	0.000244	0.05%
Cr 205.560†	18614.7	0.48411	mg/L	0.000846	0.48411	mg/L	0.000846	0.17%
Pb 220.353†	3745.9	0.48893	mg/L	0.002098	0.48893	mg/L	0.002098	0.43%
Pb 217.000†	884.5	0.60624	mg/L	0.007279	0.60624	mg/L	0.007279	1.20%

Sequence No.: 46
Sample ID: 1409275-004PS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 325
Date Collected: 9/9/2014 11:06:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-004PS

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409275-004PS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	657165.9	109.27	%	1.305				1.19%
As 188.979†	494.4	0.47608	mg/L	0.015410	0.47608	mg/L	0.015410	3.24%
As 193.696†	287.0	0.24070	mg/L	0.012859	0.24070	mg/L	0.012859	5.34%
Cd 228.802†	5973.8	0.37623	mg/L	0.005158	0.37623	mg/L	0.005158	1.37%
Cd 226.502†	19449.3	0.33742	mg/L	0.000207	0.33742	mg/L	0.000207	0.06%
Cr 267.716†	16664.4	0.47596	mg/L	0.000618	0.47596	mg/L	0.000618	0.13%
Cr 205.560†	17409.0	0.45275	mg/L	0.005900	0.45275	mg/L	0.005900	1.30%
Pb 220.353†	3623.7	0.47299	mg/L	0.007792	0.47299	mg/L	0.007792	1.65%
Pb 217.000†	810.7	0.55571	mg/L	0.004029	0.55571	mg/L	0.004029	0.73%

Sequence No.: 47
Sample ID: 1409275-011A 2x
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 326
Date Collected: 9/9/2014 11:07:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1409275-011A 2x

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: 1409275-011A 2x

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	665701.6	110.69	%	1.659				1.50%
As 188.979†	33.0	0.03174	mg/L	0.003813	0.03174	mg/L	0.003813	12.01%
As 193.696†	-210.0	-0.17608	mg/L	0.008626	-0.17608	mg/L	0.008626	4.90%
Cd 228.802†	-13.7	-0.00086	mg/L	0.000265	-0.00086	mg/L	0.000265	30.72%
Cd 226.502†	-499.7	-0.00867	mg/L	0.000231	-0.00867	mg/L	0.000231	2.67%
Cr 267.716†	3882.1	0.11088	mg/L	0.000185	0.11088	mg/L	0.000185	0.17%
Cr 205.560†	3492.0	0.09081	mg/L	0.001355	0.09081	mg/L	0.001355	1.49%
Pb 220.353†	219.8	0.02868	mg/L	0.001008	0.02868	mg/L	0.001008	3.51%
Pb 217.000†	128.7	0.08823	mg/L	0.002979	0.08823	mg/L	0.002979	3.38%

Sequence No.: 48
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 9/9/2014 11:09:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	597798.0	99.403	%	1.2091				1.22%
As 188.979†	504.5	0.48579	mg/L	0.008581	0.48579	mg/L	0.008581	1.77%
QC value within limits for As 188.979 Recovery = 97.16%								
As 193.696†	568.3	0.47651	mg/L	0.003146	0.47651	mg/L	0.003146	0.66%
Cd 228.802†	7627.9	0.48041	mg/L	0.003003	0.48041	mg/L	0.003003	0.62%
QC value within limits for Cd 228.802 Recovery = 96.08%								
Cd 226.502†	27652.8	0.47974	mg/L	0.002416	0.47974	mg/L	0.002416	0.50%
Cr 267.716†	16812.2	0.48018	mg/L	0.002386	0.48018	mg/L	0.002386	0.50%
Cr 205.560†	18487.7	0.48080	mg/L	0.001192	0.48080	mg/L	0.001192	0.25%
QC value within limits for Cr 205.560 Recovery = 96.16%								
Pb 220.353†	3676.0	0.47980	mg/L	0.000684	0.47980	mg/L	0.000684	0.14%
QC value within limits for Pb 220.353 Recovery = 95.96%								
Pb 217.000†	705.1	0.48332	mg/L	0.004663	0.48332	mg/L	0.004663	0.96%

All analyte(s) passed QC.

Sequence No.: 49
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 9/9/2014 11:10:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	613009.6	101.93	%	0.927				0.91%
As 188.979†	0.0	0.00005	mg/L	0.004467	0.00005	mg/L	0.004467	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-9.8	-0.00818	mg/L	0.005949	-0.00818	mg/L	0.005949	72.74%
Cd 228.802†	-0.4	-0.00002	mg/L	0.000230	-0.00002	mg/L	0.000230	994.57%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	11.1	0.00019	mg/L	0.000016	0.00019	mg/L	0.000016	8.17%
Cr 267.716†	-11.0	-0.00031	mg/L	0.000167	-0.00031	mg/L	0.000167	53.38%
Cr 205.560†	-19.4	-0.00050	mg/L	0.000760	-0.00050	mg/L	0.000760	150.56%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-9.7	-0.00127	mg/L	0.000397	-0.00127	mg/L	0.000397	31.31%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	10.8	0.00740	mg/L	0.007043	0.00740	mg/L	0.007043	95.11%

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 9/9/2014 11:11:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

BL 9/9/14

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	612017.3	101.77	%	0.795				0.78%
As 188.979†	2.2	0.00213	mg/L	0.003403	0.00213	mg/L	0.003403	159.99%
As 193.696†	-3.4	-0.00287	mg/L	0.004937	-0.00287	mg/L	0.004937	172.07%
Cd 228.802†	-8.4	-0.00053	mg/L	0.000151	-0.00053	mg/L	0.000151	28.71%
Cd 226.502†	8.6	0.00015	mg/L	0.000133	0.00015	mg/L	0.000133	89.10%
Cr 267.716†	-5.6	-0.00016	mg/L	0.000234	-0.00016	mg/L	0.000234	145.82%
Cr 205.560†	-31.5	-0.00082	mg/L	0.000999	-0.00082	mg/L	0.000999	122.12%
Pb 220.353†	-13.8	-0.00180	mg/L	0.000971	-0.00180	mg/L	0.000971	54.03%
Pb 217.000†	5.7	0.00387	mg/L	0.002351	0.00387	mg/L	0.002351	60.69%

All analyte(s) passed QC.

Sequence No.: 51
Sample ID: DI RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 7
Date Collected: 9/9/2014 11:12:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: DI RINSE

Analyte	Back Pressure	Flow
All	405.0 kPa	0.55 L/min

Mean Data: DI RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	616610.9	102.53	%	0.962				0.94%
As 188.979†	2.6	0.00252	mg/L	0.001513	0.00252	mg/L	0.001513	60.08%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-11.8	-0.00994	mg/L	0.000977	-0.00994	mg/L	0.000977	9.83%
Cd 228.802†	-0.5	-0.00003	mg/L	0.000049	-0.00003	mg/L	0.000049	161.46%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	8.7	0.00015	mg/L	0.000111	0.00015	mg/L	0.000111	74.10%
Cr 267.716†	2.7	0.00008	mg/L	0.000480	0.00008	mg/L	0.000480	631.33%
Cr 205.560†	-16.8	-0.00044	mg/L	0.000829	-0.00044	mg/L	0.000829	190.17%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-6.3	-0.00082	mg/L	0.000312	-0.00082	mg/L	0.000312	37.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	10.8	0.00739	mg/L	0.003693	0.00739	mg/L	0.003693	49.99%

All analyte(s) passed QC.

Y

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1409339**
Date Reported:

JC 9-10-14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409339

Lab ID: 1409339-001
Client Sample ID: FFOR-CF-0086

Collection Date: 09/08/14 9:38:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL 3 DUE 09/11/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Acenaphthylene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Acenaphthene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Fluorene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Phenanthrene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Anthracene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Fluoranthene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Pyrene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Benz(a)anthracene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Chrysene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Benzo(g,h,i)perylene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	15197	09/10/14 11:15:24 AM
Surr: N-hexadecane	54.5	27-106		%REC	1	15197	09/10/14 11:15:24 AM
Surr: Benzo(e)pyrene	58.2	34.7-131		%REC	1	15197	09/10/14 11:15:24 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409339

Lab ID: 1409339-002
Collection Date: 09/08/14 11:12:00 AM
Client Sample ID: FFOR-CF-0087
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL 3 DUE 09/11/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
1-Methylnaphthalene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
2-Methylnaphthalene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Acenaphthylene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Acenaphthene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Fluorene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Phenanthrene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Anthracene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Fluoranthene	0.018	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Pyrene	0.021	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Benz(a)anthracene	0.021	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Chrysene	0.037	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Benzo(b)fluoranthene	0.065	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Benzo(k)fluoranthene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Benzo(a)pyrene	0.032	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Dibenz(a,h)anthracene	ND	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Benzo(g,h,i)perylene	0.057	0.040		mg/Kg	1	15197	09/10/14 12:24:58 PM
Indeno(1,2,3-cd)pyrene	0.033	0.040	J	mg/Kg	1	15197	09/10/14 12:24:58 PM
Surr: N-hexadecane	45.6	27-106		%REC	1	15197	09/10/14 12:24:58 PM
Surr: Benzo(e)pyrene	61.6	34.7-131		%REC	1	15197	09/10/14 12:24:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409339

Lab ID: 1409339-003
Client Sample ID: FFOR-CF-0088
Collection Date: 09/08/14 1:29:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL 3 DUE 09/11/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	0.010	0.020	J	mg/Kg	1	15197	09/10/14 12:48:09 PM
1-Methylnaphthalene	0.33	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Acenaphthylene	ND	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Acenaphthene	ND	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Fluorene	0.024	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Phenanthrene	0.069	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Anthracene	0.019	0.020	J	mg/Kg	1	15197	09/10/14 12:48:09 PM
Fluoranthene	0.13	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Pyrene	0.15	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Benz(a)anthracene	0.091	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Chrysene	0.11	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Benzo(b)fluoranthene	0.20	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Benzo(k)fluoranthene	0.044	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Benzo(a)pyrene	0.081	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Dibenz(a,h)anthracene	0.011	0.020	J	mg/Kg	1	15197	09/10/14 12:48:09 PM
Benzo(g,h,i)perylene	0.034	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Indeno(1,2,3-cd)pyrene	0.038	0.020		mg/Kg	1	15197	09/10/14 12:48:09 PM
Surr: N-hexadecane	46.5	27-106		%REC	1	15197	09/10/14 12:48:09 PM
Surr: Benzo(e)pyrene	70.3	34.7-131		%REC	1	15197	09/10/14 12:48:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Spike ID	Spike Name					
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 5c 9.9	µL
ST8270-14029	8270 BNA Surrogate	SAMP	25746	Container-01 of 01	500 →	µL
ST8270-14031	8270 Internal Standard	SAMP	26282	Container-01 of 01	20 dam 9.9	µL

Environmental Analysis Laboratory

Time Started: [illegible]
Time Ended: [illegible]

Prep Start Date: 9/9/2014 11:18:54 A
Prep End Date:

Extraction Method 3540

PREP BATCH REPORT

5c 9.9

Reviewed By: dam 9/10/14 Page 1 of 1

Prep Batch ID: 15197 Prep Code: 8270_S_PRSI Method No: 8270C

Initial Temp: °C Final Temp °C

Technician: Steve Crandell

Prep Factor Units: mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15197	5c 9.9	Solid			30	0	0	dam 9/10 1	0.033	9/9/2014	(2) 9.10.14 dam D4936
LCS-15197		Solid			30	0	0	1	0.033	9/9/2014	
1409339-001A	FFOR-CF-0086	Soil			30.30.14	0	0	1	0.033	9/9/2014	
1409339-001AMS		Soil			30.30.11	0	0	1	0.033	9/9/2014	
1409339-001AMSD		Soil			30.30.03	0	0	1	0.033	9/9/2014	
1409339-002A	FFOR-CF-0087	Soil			30.30.07	0	0	1	0.033	9/9/2014	
1409339-003A	FFOR-CF-0088	Soil			3030.05	0	0	2 1	0.033	9/9/2014	
1409342-001A	Dakota	Soil			30.30.02	0	0	1	0.033	9/9/2014	
1409342-002A	Mesa Verde	Soil			30.29.86	0	0	1	0.033	9/9/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 9.10	µL
ST8270-14035	100ppm PAH LCS	LCS	26544	Container-01 of 01	100 5c 9.9	µL
ST8310-14004	100ppm B(e)p, 450ppm N-Hex	SAMP	25595	Container-01 of 01	100 →	µL

Varian Star Workstation - 8400 SampleList Wed Sep 10 12:40:56 2014

SampleList: C:\VarianWS\091014.smp

Created: Wed Sep 10 08:39:51 2014
Modified: Wed Sep 10 12:40:51 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	lcs-15185	1	below	3	1.0
	Notes rr				
4	10ppm ll ccv	1	below	2	1.0
	Notes sv110-0562				
5	mb-15197	1	below	4	1.0
	Notes x1 LL soil				
6	lcs-15197	1	below	5	1.0
	Notes x1 LL soil				
7	1409339-001a	1	below	6	1.0
	Notes x1 LL soil				
8	1409339-001ams	1	below	7	1.0
	Notes x1 LL soil				
9	1409339-001amsd	1	below	8	1.0
	Notes x1 LL soil				
10	1409339-002a	1	below	9	1.0
	Notes x1 LL soil		FV=2mL		
11	1409339-003a	1	below	10	1.0
	Notes x1 LL soil				
12	1409342-001a	1	below	11	1.0
	Notes x1 LL soil				
13	1409342-002a	1	below	12	1.0
	Notes x1 LL soil				

dlm 9/10/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\091014.rcl.

DC
9.10.14

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

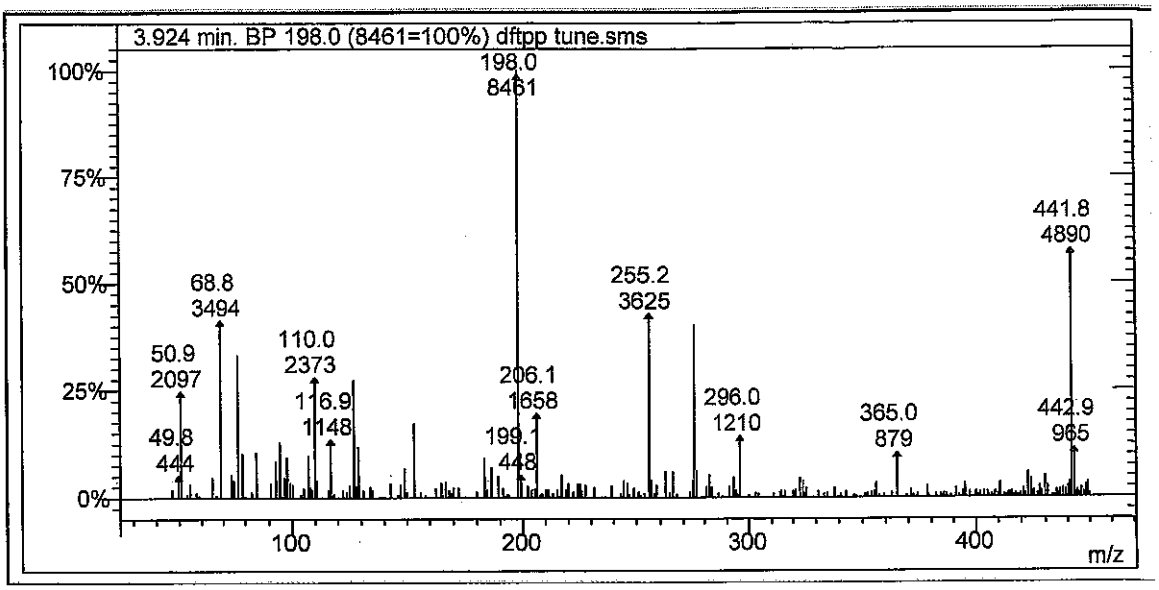
Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: MC and m.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/10/2014

Injection Time: 8:42

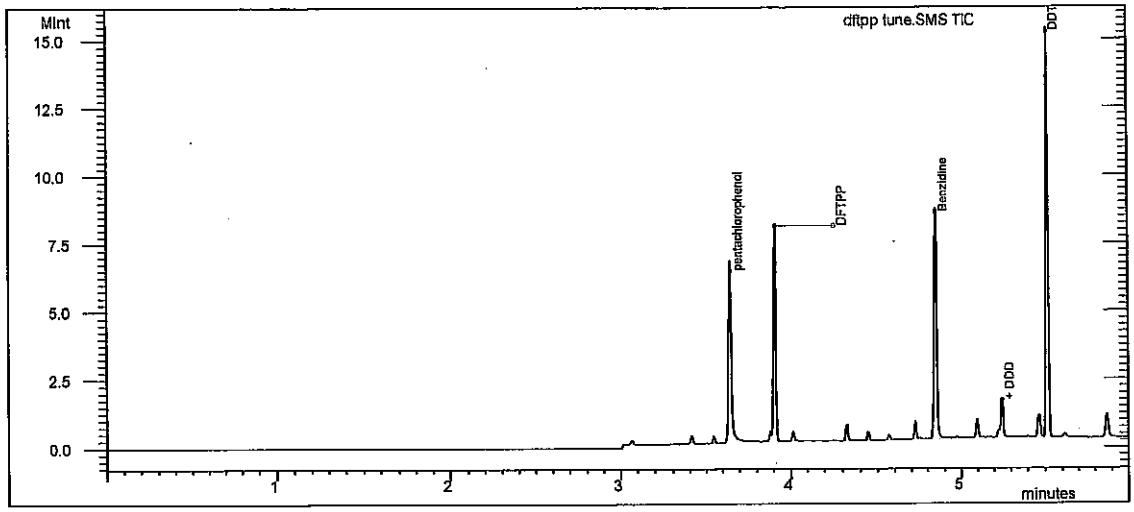
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	24.78	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	41.30	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	27.30	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.29	PASS
275	10-60% of base peak	40.11	PASS
365	>1% of base peak	10.39	PASS
441	Present and <m/z 443	30.67	PASS
442	>50% of m/z 198	57.79	PASS
443	15-24% of m/z 442	19.73	PASS

dam 9/10/14

JC 9-10-14

Degradation Report

Acquisition Date:	9/10/2014 8:42:32 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.515	3.715E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.248	343074	5
DDE	4.968	2859	6

% Degradation of DDT : = 8.518

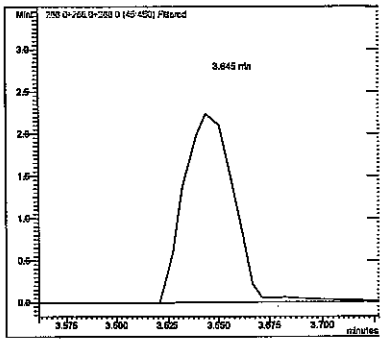
dlm 9/10/14

SV 9.10.14

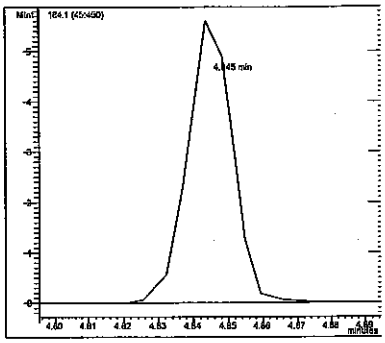
Tailing and Gaussian Factor Report

Acquisition Date:	9/10/2014 8:42:32 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.645 Area = 3.825E6



Benzidine
RT = 4.845 Area = 5.060E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.645	1.391	0.856
Benzidine	4.845	1.267	1.004

#	Compound Name	RT	Area
1	pentachlorophenol	3.645	3.825E6
3	Benzidine	4.845	5.060E6

bam
9/10/14

JC
9-10-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm ll c	116569	2.95	370478	4.28	177958	6.73	342134	9.02	331133	13.16	454937	15.40

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 9/10/14

JC 9.10.14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\091014\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 9/10/2014 Time Analyzed: 10:02

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	116569	2.95	370478	4.28	177958	6.73	342134	9.02	331133	13.16	454937	15.40
UPPER LIMIT	233138	3.45	740956	4.78	355916	7.23	684268	9.52	662266	13.66	909874	15.90
LOWER LIMIT	58285	2.45	185239	3.78	88979	6.23	171067	8.52	165567	12.66	227469	14.90
EPA SAMPLE NO												
mb-15197	99771	2.95	317885	4.27	145066	6.73	276433	9.01	282473	13.16	362046	15.39
lcs-15197	99604	2.95	327760	4.28	160597	6.73	301902	9.02	272636	13.16	355979	15.40
1409339-00	107337	2.95	346914	4.28	157600	6.73	324682	9.02	315835	13.16	417702	15.40
1409339-00	105449	2.95	350162	4.28	151849	6.73	291639	9.02	293676	13.16	398086	15.40
1409339-00	104608	2.95	358128	4.27	163601	6.73	286785	9.01	281592	13.16	378780	15.39
1409339-00	89442	2.95	299309	4.28	140017	6.73	253831	9.02	241107	13.17	316883	15.40
1409339-00	98848	2.96	347483	4.28	237838	6.74	374698	9.02	302991	13.17	396416	15.40
1409342-00	114779	2.95	367637	4.28	167080	6.73	312683	9.02	320281	13.16	464196	15.39
1409342-00	108083	2.96	338749	4.28	148159	6.73	279522	9.02	303573	13.16	433523	15.40

dam 9/10/14

9.12.14

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm II ccv.sms **Acquisition Date:** 9/10/2014 10:02

Comment: sv110-0562

SampleID: 10ppm II ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	10.19	ng	10.00	102 %	80 - 120	PASS
4)	2-Methylnaphthalene	10.02	ng	10.00	100 %	80 - 120	PASS
5)	1-Methylnaphthalene	10.13		10.00	101 %	80 - 120	PASS
6)	Acenaphthylene	9.64	ng	10.00	96 %	80 - 120	PASS
8)	Acenaphthene	9.17	ng	10.00	92 %	80 - 120	PASS
9)	n-hexadecane	67.31		67.50	100 %	80 - 120	PASS
10)	Fluorene	10.12	ng	10.00	101 %	80 - 120	PASS
12)	Phenanthrene	10.18	ng	10.00	102 %	80 - 120	PASS
13)	Anthracene	10.25	ng	10.00	103 %	80 - 120	PASS
14)	Fluoranthene	10.52	ng	10.00	105 %	80 - 120	PASS
15)	Pyrene	10.02	ng	10.00	100 %	80 - 120	PASS
16)	Benz[a]anthracene	9.77	ng	10.00	98 %	80 - 120	PASS
18)	Chrysene	9.77	ng	10.00	98 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.75	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.67	ng	10.00	97 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.71		15.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.83	ng	10.00	98 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	10.29	ng	10.00	103 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.86	ng	10.00	99 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.78	ng	10.00	98 %	80 - 120	PASS

* indicates Internal Standard.

dam 9/10/14

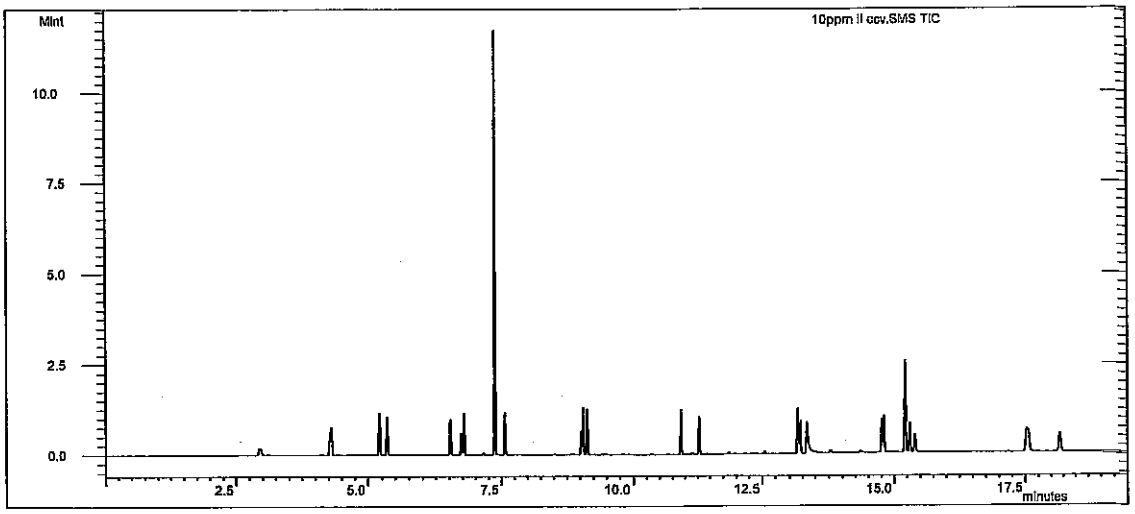
JV 9.10.14

8270C Report

Sample Name: 10ppm II ccv **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 pah 033114.mth **Inj. Notes:** sv110-0562 **Acquisition Date:** 9/10/2014 10:02:21 AM

Calculation Date: 9/10/2014 10:21:51 AM



dam 9/10/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.946	198	Identified	116569	5.000
Naphthalene-d8 (I.S)	4.276	336	Identified	370478	5.000
Acenaphthene-d10 (I.S)	6.731	591	Identified	177958	5.000
Phenanthrene-d10	9.019	829	Identified	342134	5.000
Chrysene-d12 I.S	13.163	1263	Identified	331133	5.000
Perylene-d12 I.S	15.396	1492	Identified	454937	5.000
Naphthalene	4.303	339	Identified	672451	10.193
2-Methylnaphthalene	5.206	433	Identified	442983	10.017
1-Methylnaphthalene	5.348	448	Identified	576389	10.131
Acenaphthylene	6.524	570	Identified	712091	9.641
Acenaphthene	6.781	596	Identified	800729	9.170
n-hexadecane	7.374	658	Identified	2.468E6	67.315
Fluorene	7.567	678	Identified	960280	10.123
Phenanthrene	9.056	833	Identified	738652	10.181
Anthracene	9.135	841	Identified	743086	10.250
Fluoranthene	10.918	1027	Identified	731950	10.520
Pyrene	11.275	1064	Identified	740799	10.016
Benz[a]anthracene	13.147	1261	Identified	1.099E6	9.771
Chrysene	13.203	1267	Identified	522165	9.772
Benzo(b)fluoranthene	14.756	1427	Identified	829066	9.747
Benzo[k]fluoranthene	14.798	1431	Identified	910897	9.668
Benzo(e)pyrene	15.218	1474	Identified	2.013E6	14.709
Benzo[a]pyrene	15.299	1482	Identified	922793	9.825
Indeno[1,2,3-cd]pyrene	17.531	1711	Identified	1.276E6	10.290

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.566	1715	Identified	856767	9.860
Benzo[g,h,i]perylene	18.180	1778	Identified	994645	9.781

****
Revision Log
****

9/10/2014 10:21 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

****

arian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

ampleList: C:\VarianWS\033114.smp

reated: Mon Mar 31 09:23:44 2014
odified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

4.1.14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s

reate and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David

QA: John Edwards

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: MC and ___.

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

JV 4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

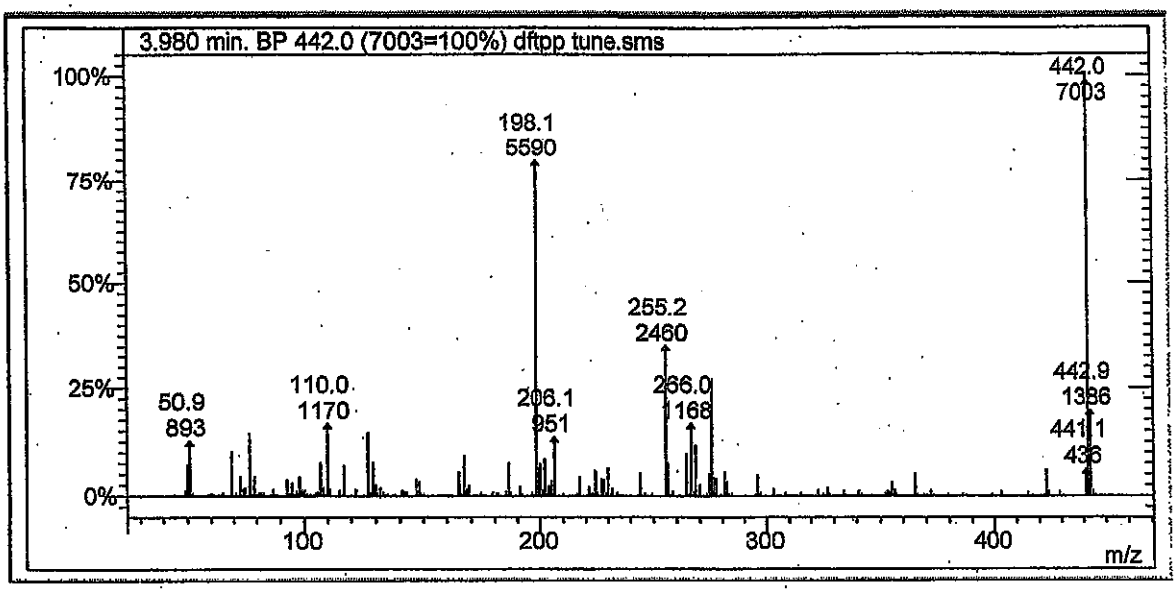
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
51	10-80% of base peak	12.8		
68	<2% of m/z 69	0.0		
69	Present	10.2		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	14.5		
197	<2% of m/z 198	0.4	(0.5)	198
198	Base peak	79.8		
199	5-9% of m/z 198	6.5	(8.2)	198
275	10-60% of base peak	26.9		
365	>1% of base peak	5.0		
441	Present and <m/z 443	6.2	(31.5)	443
442	>50% of m/z 198	100.0	(125.3)	198
443	15-24% of m/z 442	19.8		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 II crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 II crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 II crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 II crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

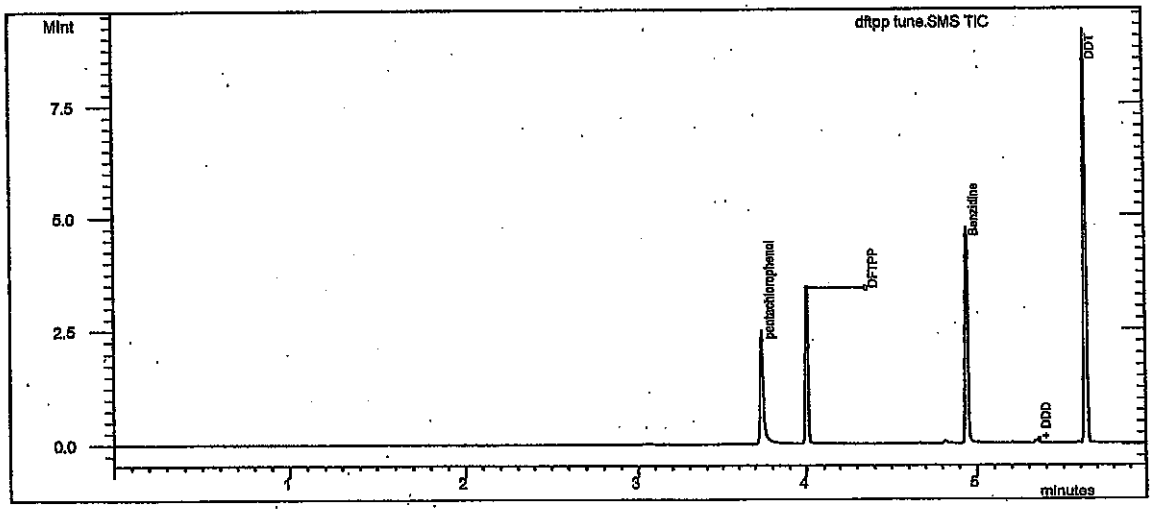
Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

dmn 4/1/14

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT: = .944

✓ dam 4/1/14

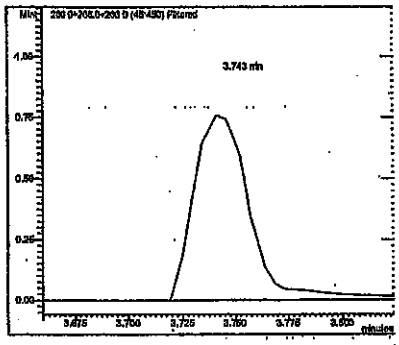
JO 4-1-14

Tailing and Gaussian Factor Report

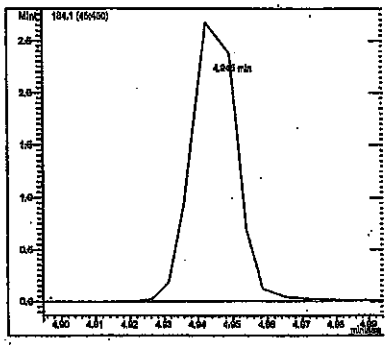
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

dlm 4/1/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

JC 4/1/14

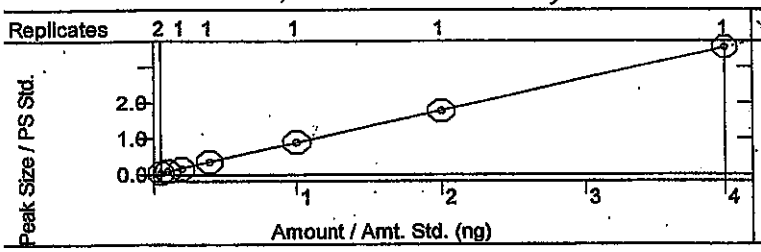
Calibration Curves Report

dcm 4/1/14

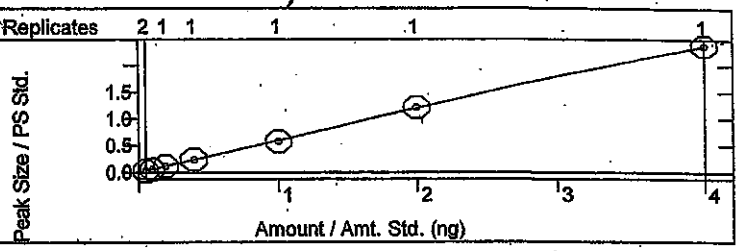
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4/1/14

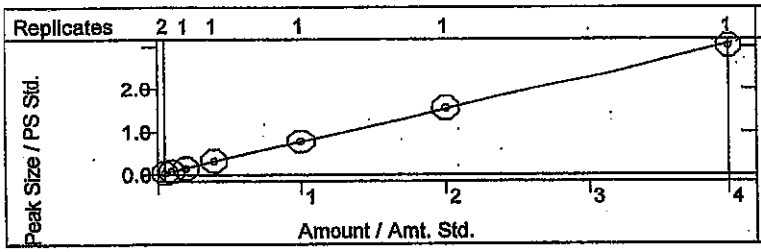
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



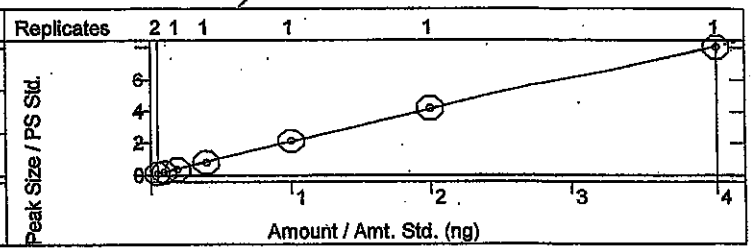
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



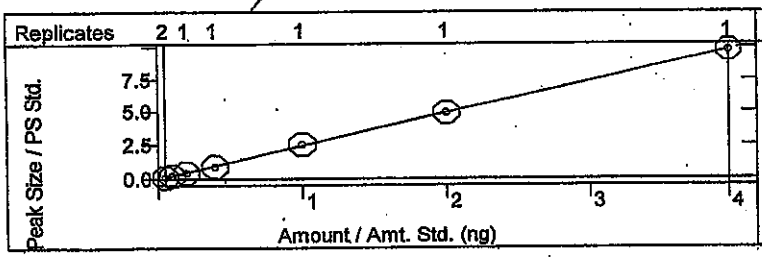
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



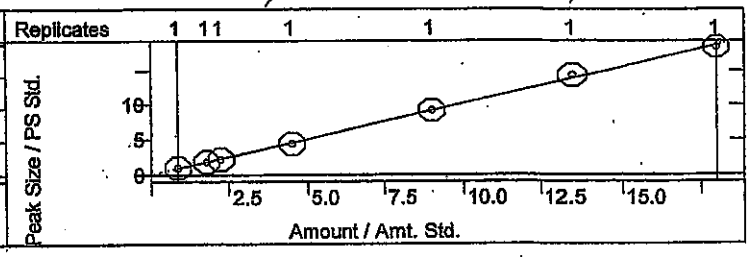
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



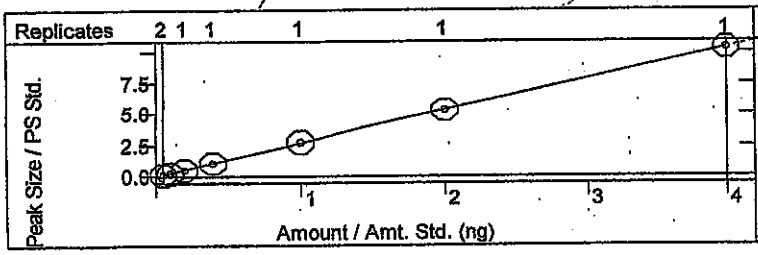
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



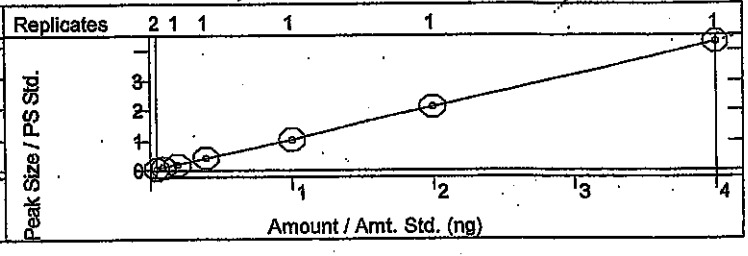
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4

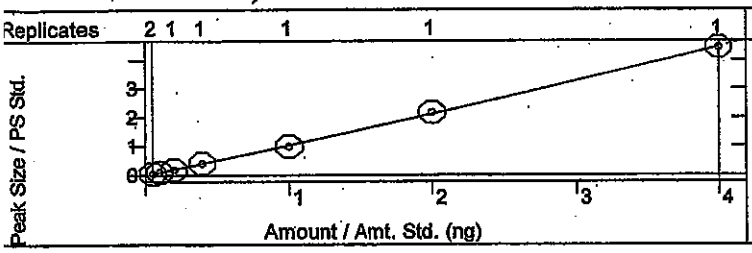


Calibration Curves Report

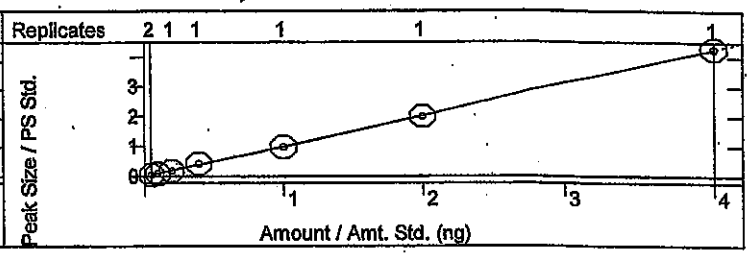
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

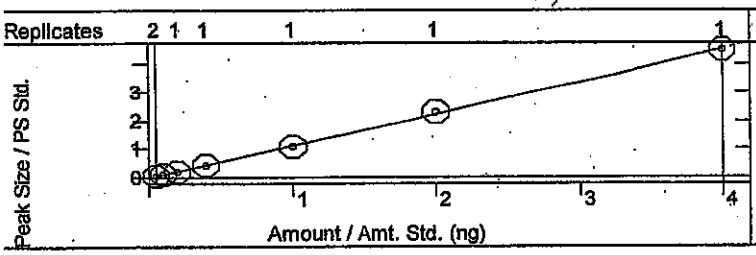
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



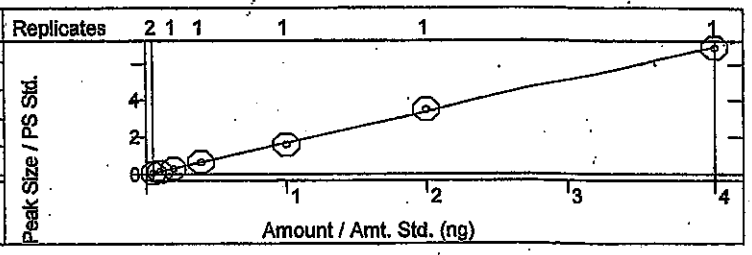
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



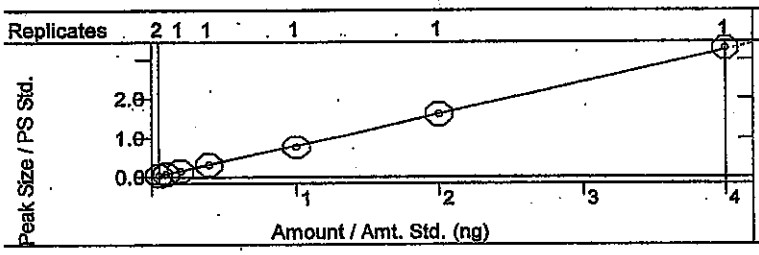
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



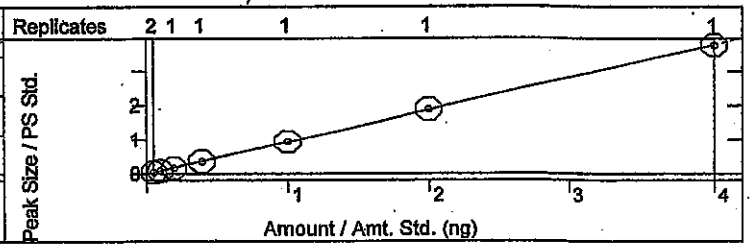
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



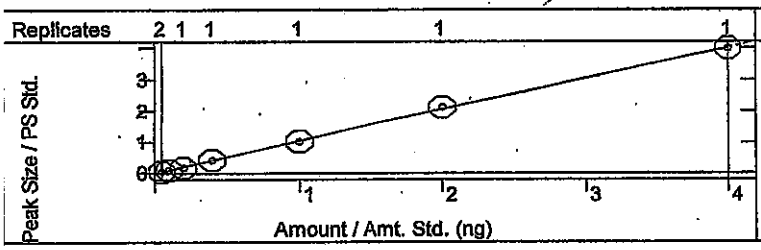
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



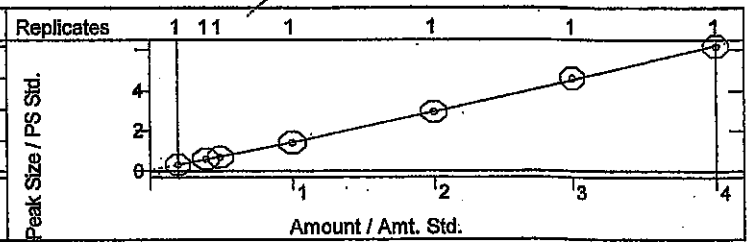
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401



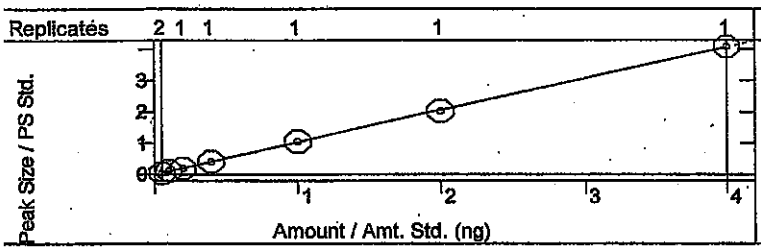
Calibration Curves Report

dam 4/1/14

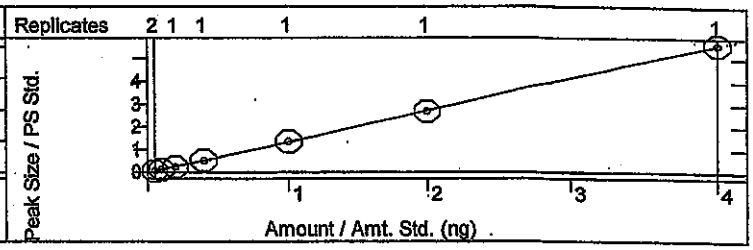
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

DV 4/1/14

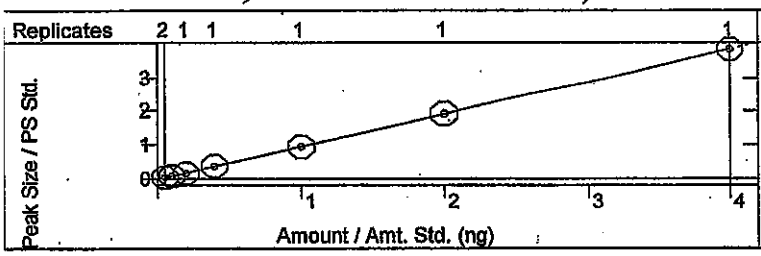
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



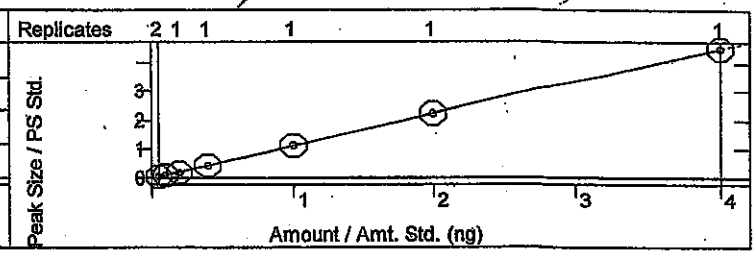
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JO 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
									Average %RSD	5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4-1-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

DC
4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Mellus

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

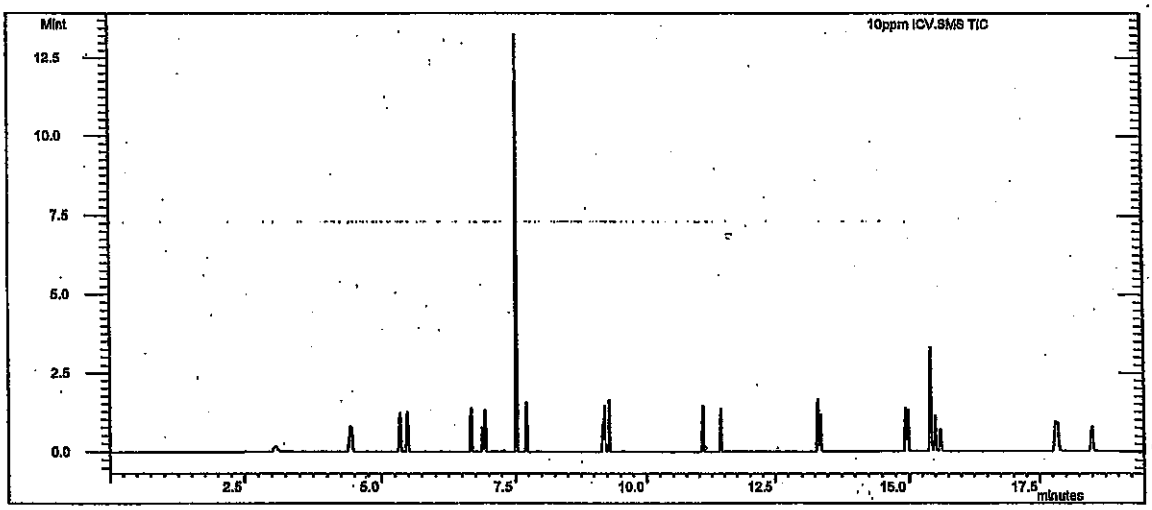
* Indicates Internal Standard.

dam 4/1/14

JC 4.1.14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

****
Revision Log
****

3/31/2014 1:43 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

JC 9/15/14

Analytical Report
Lab Order: **1409490**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409490

Lab ID: 1409490-001
Client Sample ID: FFOR-CF-0089
Collection Date: 9/10/2014 8:39:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/15/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	0.013	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
1-Methylnaphthalene	0.079	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
2-Methylnaphthalene	0.068	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Acenaphthylene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Acenaphthene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Fluorene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Phenanthrene	0.0066	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Anthracene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Fluoranthene	0.0086	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Pyrene	0.027	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Benz(a)anthracene	0.0056	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Chrysene	0.0080	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Benzo(b)fluoranthene	0.032	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	15272	9/15/2014 11:34:27 AM
Dibenz(a,h)anthracene	0.0083	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Benzo(g,h,i)perylene	0.013	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Indeno(1,2,3-cd)pyrene	0.016	0.020	J	mg/Kg	1	15272	9/15/2014 11:34:27 AM
Surr: N-hexadecane	106	27-106	S	%REC	1	15272	9/15/2014 11:34:27 AM
Surr: Benzo(e)pyrene	110	34.7-131		%REC	1	15272	9/15/2014 11:34:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

8270 Internal Standard	ALL	26282	Container-01 of 01	500	dam 9/10	µL
			Container-01 of 01	20	dam 9/15	µL

Test Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **9/14/2014 5:35:06 A** Time Started: 11:00 Reviewed By: Extraction Method: dam 9/15/14 **3540** 5c 9.14

Prep End Date: Time Ended: 5:00

Prep Batch ID: **15272** Prep Code: **8270_S_PRSI** Method No: **8270C**

Initial Temp: **°C** Final Temp **°C** Technician: **Steve Crandell** Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15272		Solid			30	0	0	1	0.033	9/14/2014	10 9.15.14
LCS-15272		Solid			30	0	0	1	0.033	9/14/2014	
1409490-001A	FFOR-CF-0089	Soil			~~30~~ 30.11	0	0	1	0.033	9/14/2014	
1409490-001AMS		Soil			~~30~~ 30.07	0	0	1	0.033	9/14/2014	
1409490-001AMSD		Soil			~~30~~ 30.16	0	0	1	0.033	9/14/2014	
1409570-001A	FFOR-CF-0090	Soil			~~30~~ 30.09	0	0	1	0.033	9/14/2014	

DAM 9/15 4736

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 9/15	µL
ST8270-14035	100ppm PAH LCS	LCS	26544	Container-01 of 01	100 5c 9.14	µL
ST8310-14009	100ppm B(e)p, 450ppm N-Hex	SAMP	26232	Container-01 of 01	100	µL

****

Varian Star Workstation - 8400 SampleList Mon Sep 15 13:26:45 2014

SampleList: C:\VarianWS\091514.smp

Created: Mon Sep 15 08:23:34 2014
Modified: Mon Sep 15 13:26:17 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	10ppm ll ccv	1	below	1	1.0
	Notes sv110-0620				
3	50ppm ccv	1	below	2	1.0
	Notes sv110-0608				
4	mb-15272	1	below	3	1.0
	Notes x1 LL soil				
5	lcs-15272	1	below	4	1.0
	Notes x1 LL soil				
6	1409490-001a	1	below	5	1.0
	Notes x1 LL soil				
7	1409490-001ams	1	below	6	1.0
	Notes x1 LL soil				
8	1409490-001amsd	1	below	7	1.0
	Notes x1 LL soil				
9	1409570-001a	1	below	8	1.0
	Notes x1 LL soil FV=2ml				
10					
11	mb-15227	1	below	9	1.0
	Notes x1 AQ				
12	lcs-15227	1	below	10	1.0
	Notes x1 AQ				
13	1409143-002e	1	below	11	1.0
	Notes x1 reext				
14	mb-15274	1	below	12	1.0
	Notes x1 AQ				
15	lcs-15274	1	below	13	1.0
	Notes x1 AQ				
16	lcsd-15274	1	below	14	1.0
	Notes x1 AQ				
17	1409452-001e	1	below	15	1.0
	Notes x1 AQ				
18	1409453-001b	1	below	16	1.0
	Notes x1 AQ				
19	1409453-002b	1	below	20	1.0
	Notes x1 AQ				
20	mb-15275	1	below	17	1.0
	Notes x1 tclp				
21	lcs-15275	1	below	18	1.0
	Notes x1 tclp				
22	1409245-005a	1	below	19	1.0
	Notes x1 tclp				
23	1409245-005ams	1	below	21	1.0
	Notes x1 tclp				
24	1409245-005amsd	1	below	22	1.0
	Notes x1 tclp				
25	1409356-001a	1	below	23	1.0
	Notes x1 tclp				
26					

dam 9/15/14

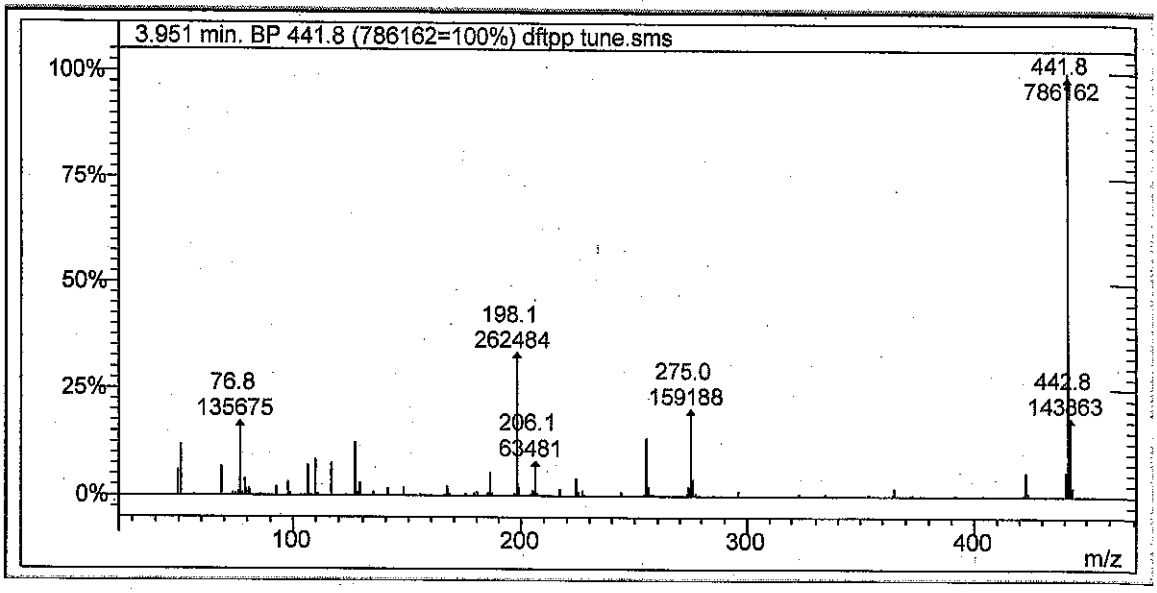
JC 9.15.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\091514.rcl.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/15/2014

Injection Time: 9:32

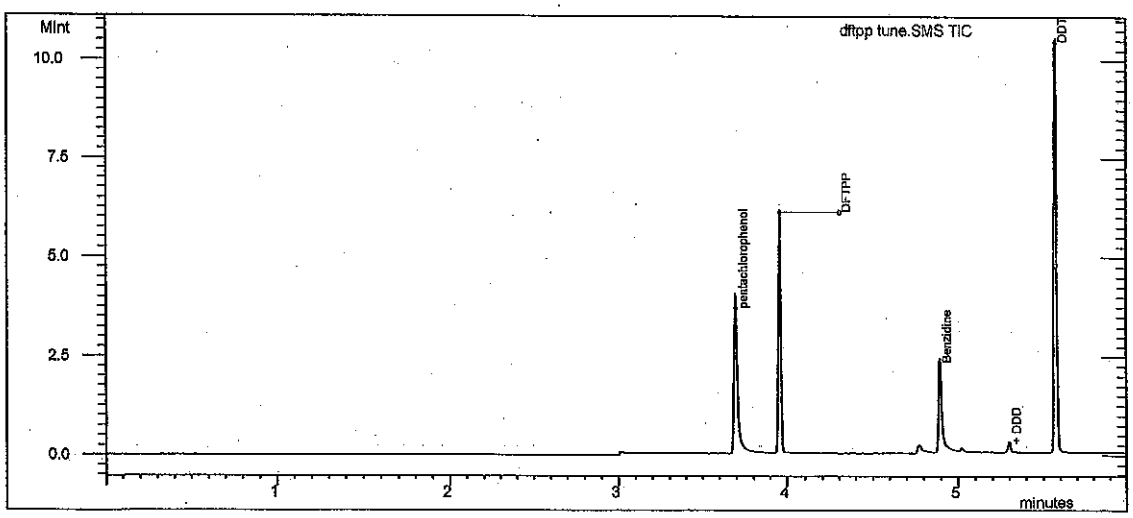
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	11.93	PASS
68	<2% of m/z 69	0.89	PASS
69	Present	6.68	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	12.32	PASS
197	<2% of m/z 198	1.48	PASS
198	Base peak	33.39	PASS
199	5-9% of m/z 198	5.95	PASS
275	10-60% of base peak	20.25	PASS
365	>1% of base peak	1.85	PASS
441	Present and <m/z 443	31.83	PASS
442	>50% of m/z 198	299.51	PASS
443	15-24% of m/z 442	18.30	PASS

dam 9/15/14

JC 9-15-14

Degradation Report

Acquisition Date:	9/15/2014 9:32:11 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.574	3.087E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.301	67420	5
DDE	5.070	53	6

% Degradation of **DDT : =** 2.139

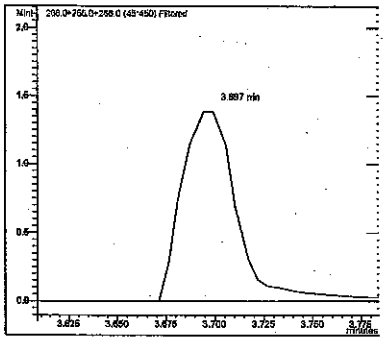
dam 9/15/14

JC 9.15.14

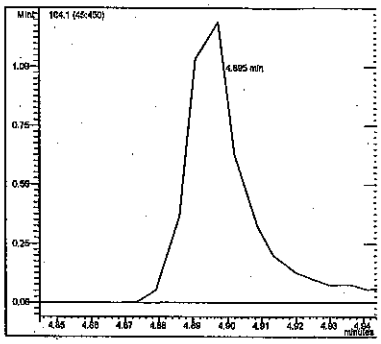
Tailing and Gaussian Factor Report

Acquisition Date: 9/15/2014 9:32:11 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0614

pentachlorophenol
RT = 3.697 Area = 2.763E6



Benzidine
RT = 4.895 Area = 1.588E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.697	1.771	0.792
Benzidine	4.895	1.445	0.671

#	Compound Name	RT	Area
1	pentachlorophenol	3.697	2.763E6
3	Benzidine	4.895	1.588E6

✓ dam 9/15/14

JC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\091214 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
10ppm ll c	159887	3.03	571745	4.37	258676	6.83	481818	9.12	462782	13.25	671545	15.50

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 9/15/14

JC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\091514\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 9/15/2014 Time Analyzed: 09:49

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	159887	3.03	571745	4.37	258676	6.83	481818	9.12	462782	13.25	671545	15.50
UPPER LIMIT	319774	3.53	1.143E6	4.87	517352	7.33	963636	9.62	925564	13.75	1.343E6	16.00
LOWER LIMIT	79944	2.53	285873	3.87	129338	6.33	240909	8.62	231391	12.75	335773	15.00
EPA SAMPLE NO												
mb-15272	144610	3.03	498137	4.37	226174	6.83	449010	9.11	456655	13.24	597631	15.50
lcs-15272	161227	3.03	580207	4.36	263587	6.82	506630	9.11	484214	13.24	672081	15.49
1409490-00	157323	3.03	534246	4.37	249559	6.83	485753	9.11	485040	13.24	647347	15.49
1409490-00	167686	3.03	604169	4.37	278332	6.83	523175	9.11	516855	13.24	730488	15.49
1409490-00	156715	3.03	555063	4.37	273563	6.83	509048	9.11	517846	13.24	685150	15.49
1409570-00	140470	3.04	485627	4.37	214303	6.82	421124	9.11	445587	13.24	597980	15.49

dlm 9/15/14

JC 9-15-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm II ccv.sms **Acquisition Date:** 9/15/2014 9:49

Comment: sv110-0620

SampleID: 10ppm II ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.06	ng	10.00	91 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.16	ng	10.00	92 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.23		10.00	92 %	80 - 120	PASS
6)	Acenaphthylene	9.49	ng	10.00	95 %	80 - 120	PASS
8)	Acenaphthene	10.39	ng	10.00	104 %	80 - 120	PASS
9)	n-hexadecane	67.82		67.50	100 %	80 - 120	PASS
10)	Fluorene	9.66	ng	10.00	97 %	80 - 120	PASS
12)	Phenanthrene	10.02	ng	10.00	100 %	80 - 120	PASS
13)	Anthracene	9.75	ng	10.00	97 %	80 - 120	PASS
14)	Fluoranthene	9.60	ng	10.00	96 %	80 - 120	PASS
15)	Pyrene	10.26	ng	10.00	103 %	80 - 120	PASS
16)	Benz[a]anthracene	10.35	ng	10.00	104 %	80 - 120	PASS
18)	Chrysene	10.08	ng	10.00	101 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.72	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.05	ng	10.00	90 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.71		15.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.26	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.20	ng	10.00	92 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	8.93	ng	10.00	89 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.07	ng	10.00	91 %	80 - 120	PASS

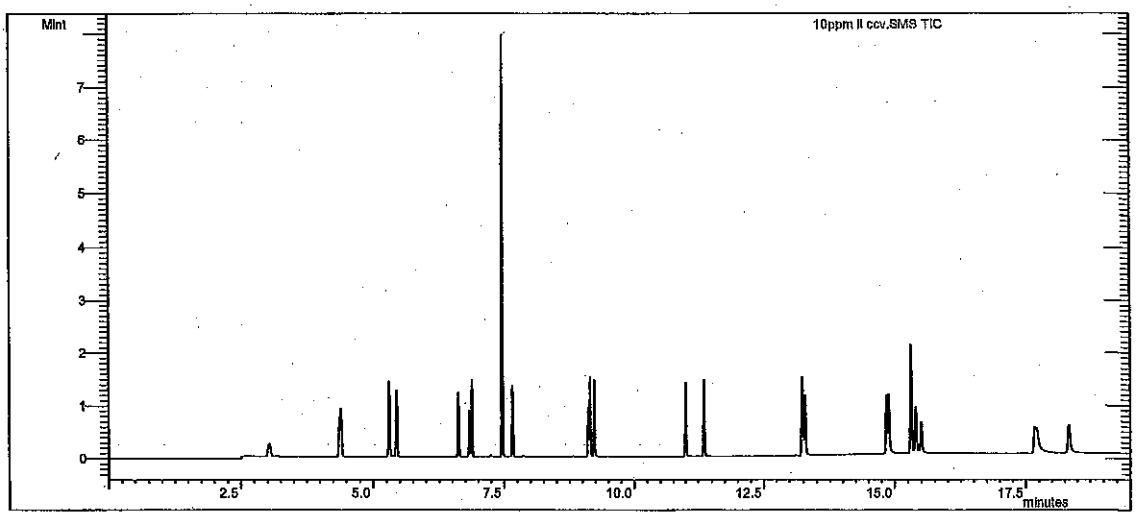
* indicates Internal Standard.

dmm 9/15/14

JC 9.15.14

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 091214.mth	**Inj. Notes:**	sv110-0620	**Acquisition Date:**	9/15/2014 9:49:35 AM
Calculation Date:	9/15/2014 10:09:06 AM				



dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.031	206	Identified	159887	5.000
Naphthalene-d8 (I.S)	4.370	342	Identified	571745	5.000
Acenaphthene-d10 (I.S)	6.830	593	Identified	258676	5.000
Phenanthrene-d10	9.116	825	Identified	481818	5.000
Chrysene-d12 I.S	13.247	1246	Identified	462782	5.000
Perylene-d12 I.S	15.498	1480	Identified	671545	5.000
Naphthalene	4.395	345	Identified	836559	9.065
2-Methylnaphthalene	5.300	437	Identified	558374	9.158
1-Methylnaphthalene	5.443	452	Identified	718919	9.231
Acenaphthylene	6.620	571	Identified	854490	9.494
Acenaphthene	6.879	598	Identified	1.088E6	10.391
n-hexadecane	7.469	658	Identified	1.859E6	67.822
Fluorene	7.661	677	Identified	1.154E6	9.657
Phenanthrene	9.151	829	Identified	884131	10.017
Anthracene	9.230	837	Identified	856749	9.745
Fluoranthene	11.008	1017	Identified	840503	9.601
Pyrene	11.364	1054	Identified	878914	10.265
Benz[a]anthracene	13.230	1245	Identified	1.263E6	10.354
Chrysene	13.230	1245	Identified	851764	10.079
Benzo(b)fluoranthene	14.846	1413	Identified	970651	9.723
Benzo[k]fluoranthene	14.889	1417	Identified	1.244E6	9.047
Benzo(e)pyrene	15.311	1460	Identified	1.794E6	14.713
Benzo[a]pyrene	15.398	1469	Identified	1.172E6	9.259
Indeno[1,2,3-cd]pyrene	17.679	1704	Identified	1.355E6	9.198

JV 9.15.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.733	1709	Identified	956878	8.926
Benzo[g,h,i]perylene	18.339	1771	Identified	1.159E6	9.072

****
Revision Log
****

9/15/2014 10:09 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 091214.mth'

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 9/12/14

Calibration Name: 091214

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature]

QA: [signature]

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

****

Varian Star Workstation - 8400 SampleList Fri Sep 12 13:08:18 2014

SampleList: C:\VarianWS\091214.smp

Created: Fri Sep 12 12:18:53 2014
Modified: Fri Sep 12 13:00:27 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0622				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0615				
5	0.5ppm	1	below	3	1.0
	Notes sv110-0616				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0617				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0618				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0619				
9	10ppm	1	below	7	1.0
	Notes sv110-0620				
10	20ppm	1	below	8	1.0
	Notes sv110-0621				
11	10ppm LL ICV	1	below	9	1.0
	Notes sv110-0623				
12					
13	RB-8270	1	below	10	1.0
	Notes sv110-0612				
14					
15	2.5ppm	1	below	11	1.0
	Notes sv110-0602				
16	5ppm	1	below	12	1.0
	Notes sv110-0603				
17	10ppm	1	below	13	1.0
	Notes sv110-0604				
18	20ppm	1	below	14	1.0
	Notes sv110-0605				
19	30ppm	1	below	15	1.0
	Notes sv110-0606				
20	40ppm	1	below	16	1.0
	Notes sv110-0607				
21	50ppm	1	below	17	1.0
	Notes sv110-0608				
22	80ppm	1	below	18	1.0
	Notes sv110-0609				
23	100ppm	1	below	19	1.0
	Notes sv110-0610				
24	120ppm	1	below	20	1.0
	Notes sv110-0611				
25	50ppm ICV	1	below	21	1.0
	Notes sv110-0613				
26					

Directory for Data Files: C:\VarianWS\data

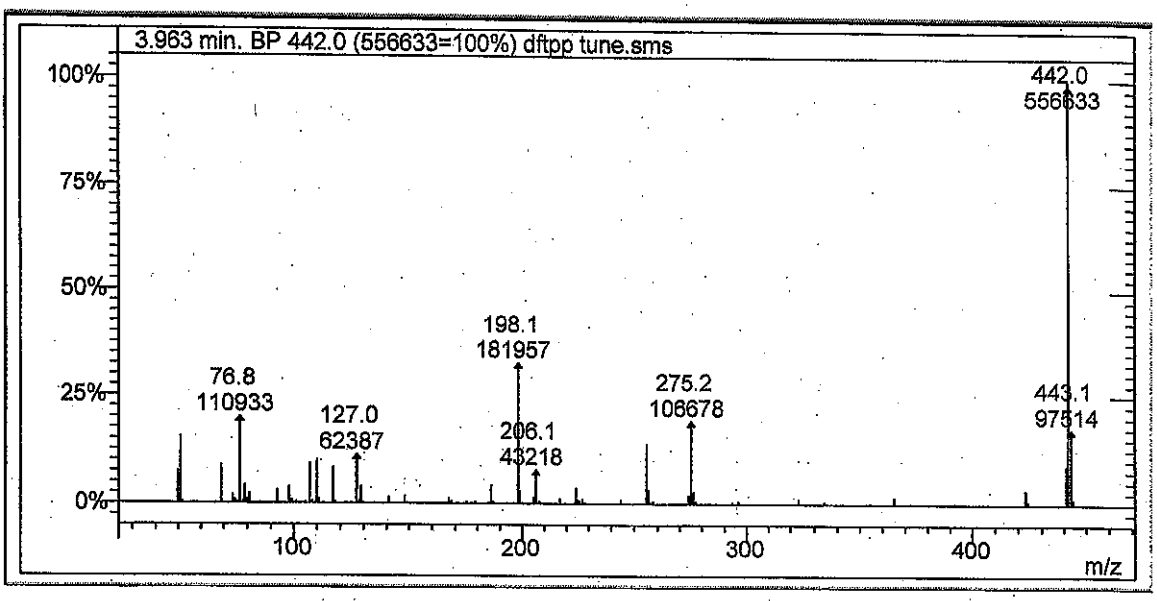
Data File Names: %s

Create and update a new RecalcList: c:\varianws\091214.rcl.

dam 9/15/14

JC
9.15.14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/12/2014

Injection Time: 12:25

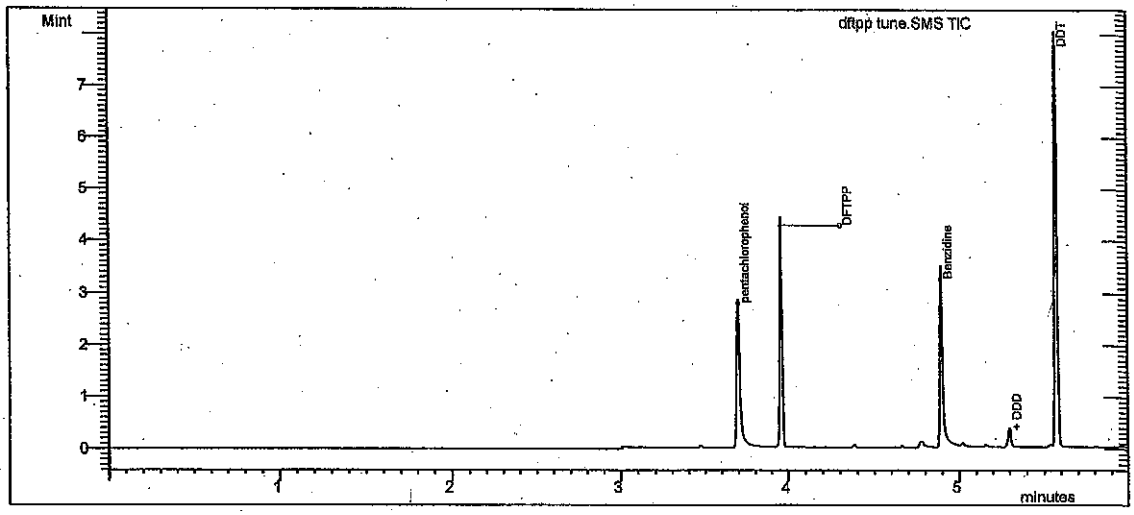
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	15.32	PASS
68	<2% of m/z 69	0.11	PASS
69	Present	8.76	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	11.21	PASS
197	<2% of m/z 198	0.26	PASS
198	Base peak	32.69	PASS
199	5-9% of m/z 198	8.94	PASS
275	10-60% of base peak	19.16	PASS
365	>1% of base peak	1.58	PASS
441	Present and <m/z 443	51.36	PASS
442	>50% of m/z 198	305.91	PASS
443	15-24% of m/z 442	17.52	PASS

dam 9/15/14

JC 9-15-14

Degradation Report

Acquisition Date:	9/12/2014 12:25:39 PM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.574	2.184E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.300	100818	5
DDE	5.085	23	6

% Degradation of DDT : = 4.413

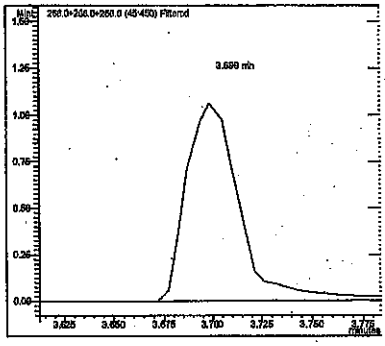
dlm 9/15/14

JC 9.15.14

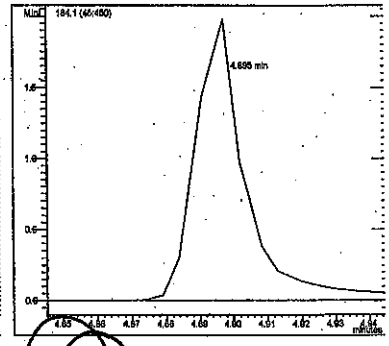
Tailing and Gaussian Factor Report

Acquisition Date: 9/12/2014 12:25:39 PM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0614

pentachlorophenol
RT = 3.699 Area = 2.048E6



Benzidine
RT = 4.895 Area = 2.167E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.699	1.670	0.763
Benzidine	4.895	1.100	0.789

JV dam 9/15/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.699	2.048E6
3	Benzidine	4.895	2.167E6

TC 9.15.14

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

dam 9/15/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 9/12/2014

Instrument ID: ELMO Injection Time: 12:25

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
51	10-80% of base peak	15.3	
68	<2% of m/z 69	0.0 (0.1)	69
69	Present	8.8	
70	<2% of m/z 69	0.0	
127	10-80% of base peak	11.2	
197	<2% of m/z 198	0.1 (0.3)	198
198	Base peak	32.7	
199	5-9% of m/z 198	2.9 (8.9)	198
275	10-60% of base peak	19.2	
365	>1% of base peak	1.6	
441	Present and <m/z 443	9.0 (51.4)	443
442	>50% of m/z 198	100.0 (305.9)	198
443	15-24% of m/z 442	17.5	

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\september 2014\091214 ll crv\RB-LL PAH.SMS	9/12/2014 12:36
20.25ppm	0.25ppm	h:\elmo\data\2014\september 2014\091214 ll crv\0.25ppm.SMS	9/12/2014 12:59
30.5ppm	0.5ppm	h:\elmo\data\2014\september 2014\091214 ll crv\0.5ppm.SMS	9/12/2014 13:22
41.0ppm	1.0ppm	h:\elmo\data\2014\september 2014\091214 ll crv\1.0ppm.SMS	9/12/2014 13:46
52.0ppm	2.0ppm	h:\elmo\data\2014\september 2014\091214 ll crv\2.0ppm.SMS	9/12/2014 14:09
65.0ppm	5.0ppm	h:\elmo\data\2014\september 2014\091214 ll crv\5.0ppm.SMS	9/12/2014 14:32
710ppm	10ppm	h:\elmo\data\2014\september 2014\091214 ll crv\10ppm.SMS	9/12/2014 14:55
820ppm	20ppm	h:\elmo\data\2014\september 2014\091214 ll crv\20ppm .SMS	9/12/2014 15:18
910ppm LL I	10ppm LL ICV	h:\elmo\data\2014\september 2014\091214 ll crv\10ppm LL ICV.SMS	9/12/2014 15:41

9.15.14

Print Date: 12 Sep 2014 21:54:58

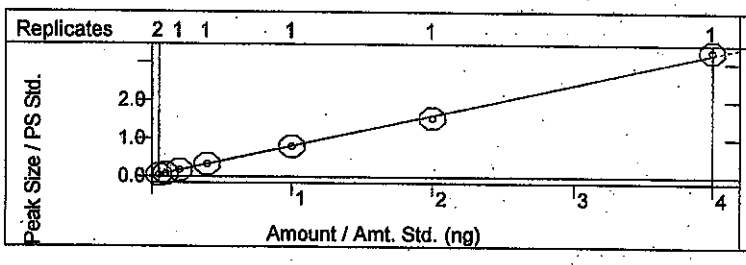
Calibration Curves Report

dlm 9/15/14

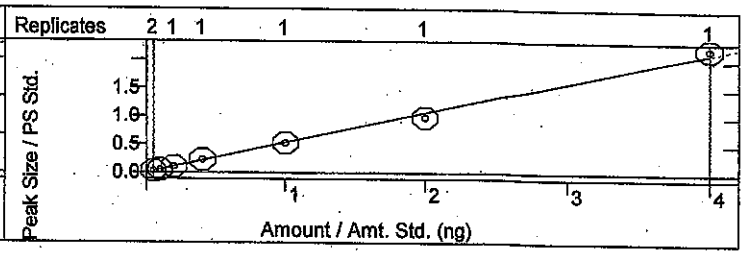
Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 9-15-14

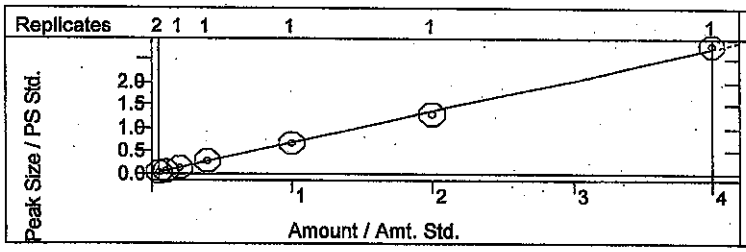
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.493%, Coeff. Det.(r2): 0.999027
y = +0.8079x -0.0015



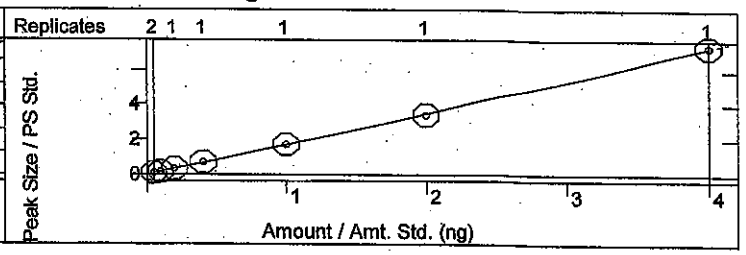
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.442%, Coeff. Det.(r2): 0.996773
y = +0.5336x -7.4405e-4



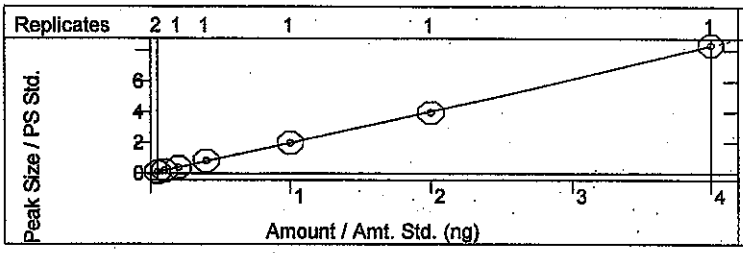
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.908%, Coeff. Det.(r2): 0.998706
y = +0.6808x +6.1613e-4



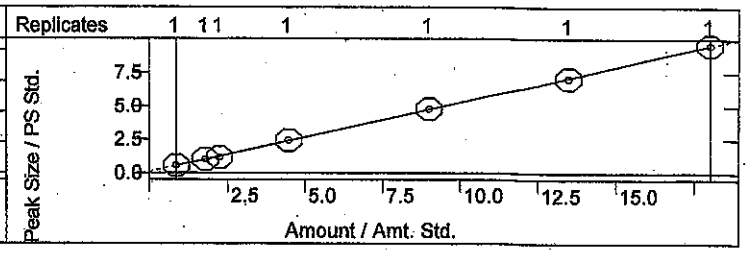
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.352%, Coeff. Det.(r2): 0.999843
y = +0.0434x2 +1.6509x +0.0122



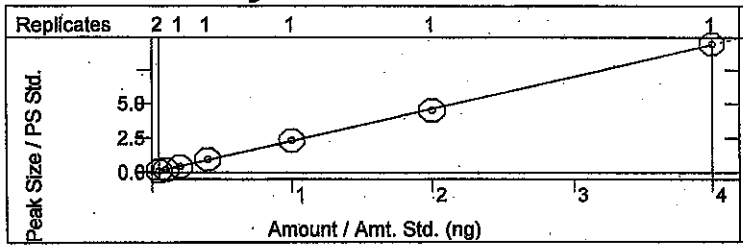
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.858%, Coeff. Det.(r2): 0.999892
y = +0.0347x2 +1.9447x +0.0140



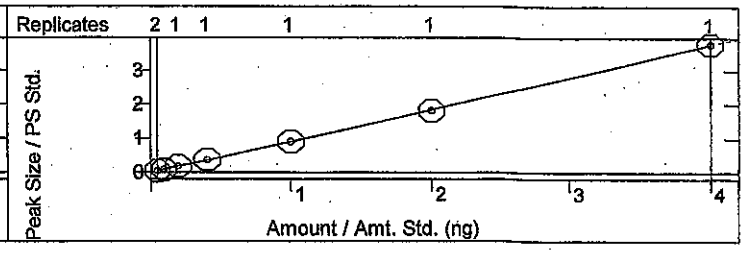
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.000%, Coeff. Det.(r2): 0.999845
y = +8.8897e-4x2 +0.5106x +0.0957



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.461%, Coeff. Det.(r2): 0.999745
y = +0.0201x2 +2.2674x +0.0071



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.391%, Coeff. Det.(r2): 0.999919
y = +0.0153x2 +0.8829x +0.0050



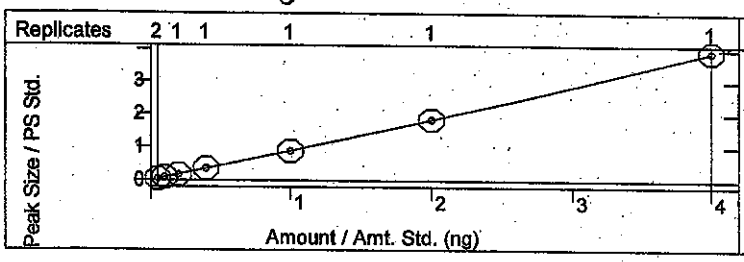
Calibration Curves Report

Jdm 9/15/14

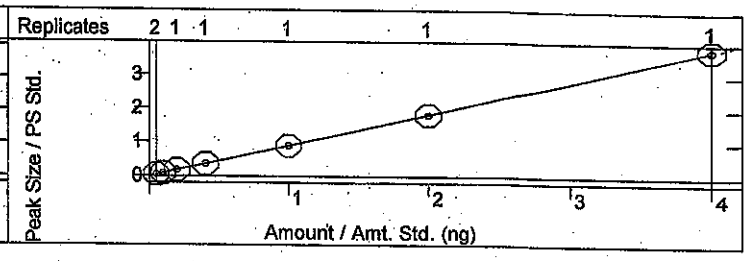
Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

50
9-1644

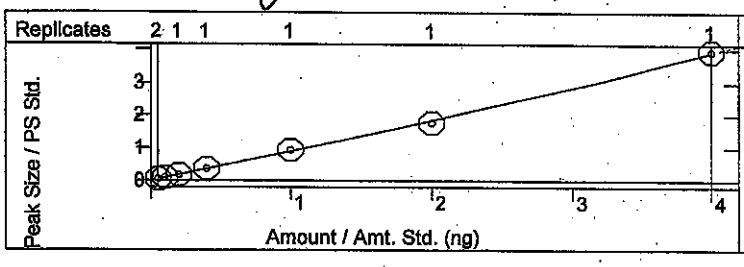
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.422%, Coeff. Det.(r2): 0.999990
y = +0.0339x2 +0.8451x +0.0023



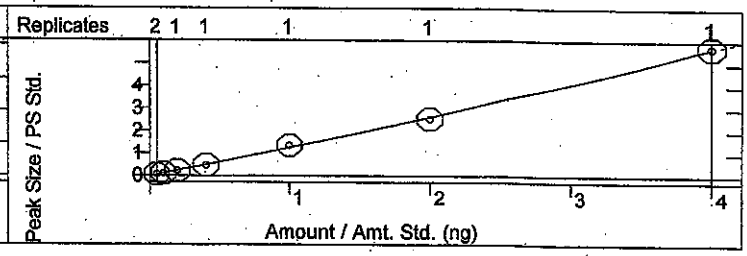
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.323%, Coeff. Det.(r2): 0.999982
y = +0.0221x2 +0.8645x +0.0028



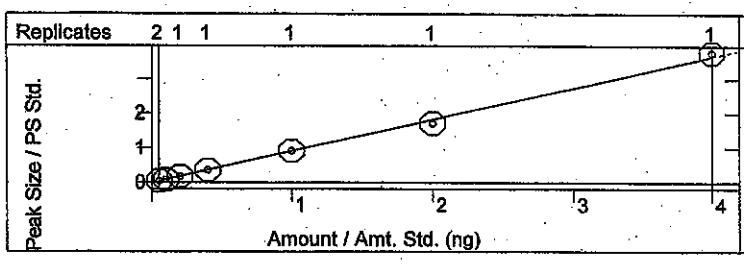
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.581%, Coeff. Det.(r2): 0.999253
y = +0.0297x2 +0.8601x +0.0083



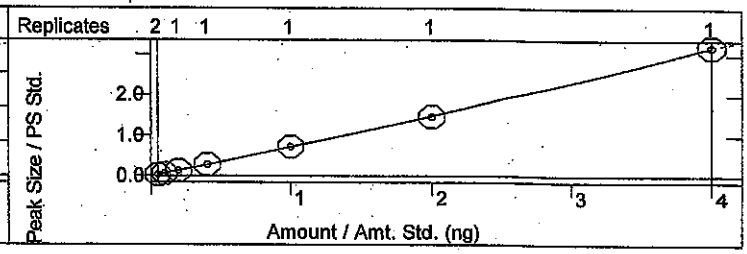
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.76%, Coeff. Det.(r2): 0.999310
y = +0.0526x2 +1.2146x -0.0111



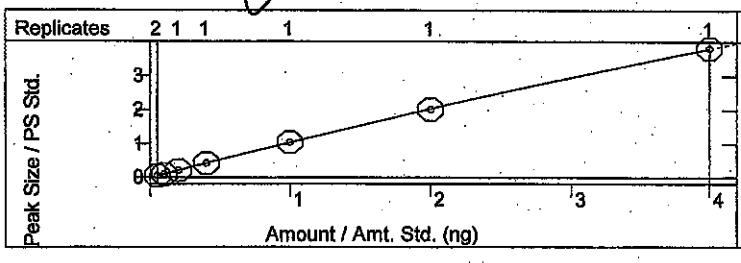
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.977%, Coeff. Det.(r2): 0.998292
y = +0.9147x -0.0034



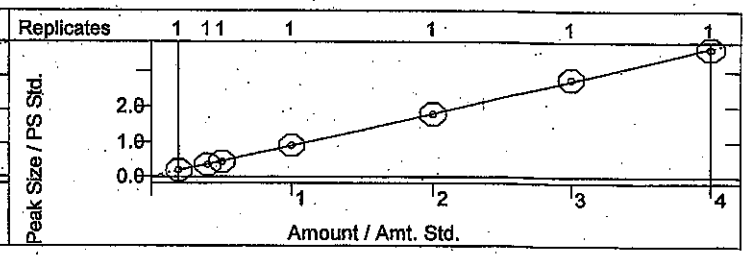
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.700%, Coeff. Det.(r2): 0.999928
y = +0.0252x2 +0.6970x -0.0054



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.854%, Coeff. Det.(r2): 0.999962
y = -0.0336x2 +1.0899x -0.0099



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.820%, Coeff. Det.(r2): 0.999688
y = +0.0073x2 +0.8848x +0.0044

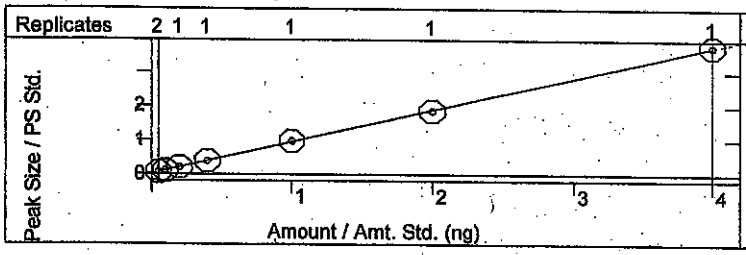


Calibration Curves Report

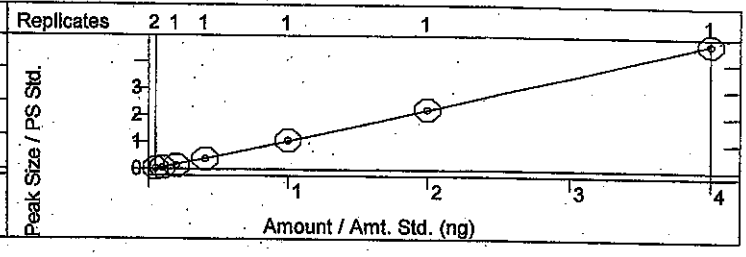
dam 9/15/14

Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

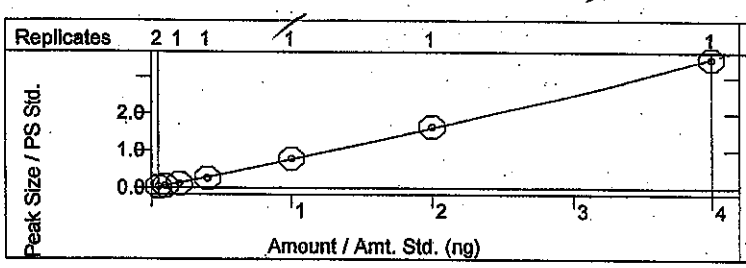
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.461%, Coeff. Det.(r2): 0.999841
y = +3.5585e-4x2 +0.9356x +0.0119



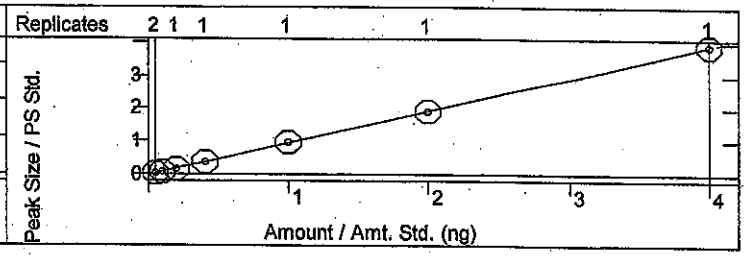
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.37%, Coeff. Det.(r2): 0.999787
y = +0.0388x2 +1.0473x -0.0405



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 21.49%, Coeff. Det.(r2): 0.999688
y = +0.0340x2 +0.7479x -0.0186



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.14%, Coeff. Det.(r2): 0.999909
y = +0.0092x2 +0.9449x -0.0194



JC 9-15-14

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 9/12/2014 9/12/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 15:18 15:18

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

dam 9/15/14

Index: 1 Level: 2 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 2 Level: 3 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 3 Level: 4 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 4 Level: 5 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 5 Level: 6 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 6 Level: 7 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 7 Level: 8 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.813	0.752	0.828	0.808	0.796	0.774	0.826	0.9990	0.800	3.5	PASS	PASS
2-Methylnaphthalene	0.553	0.504	0.512	0.567	0.524	0.491	0.554	0.9968	0.529	5.4	PASS	PASS
1-Methylnaphthalene	0.739	0.646	0.677	0.708	0.674	0.648	0.698	0.9987	0.684	4.9	PASS	PASS
Acenaphthylene	1.833	1.805	1.693	1.775	1.723	1.710	1.834	0.9998	1.767	3.4	PASS	PASS
Acenaphthene	2.153	2.094	2.029	2.076	1.999	1.989	2.094	0.9999	2.062	2.9	PASS	PASS
n-hexadecane	0.630	0.576	0.522	0.544	0.534	0.526	0.532	0.9998	0.552	7.0	PASS	PASS
Fluorene	2.480	2.277	2.170	2.420	2.341	2.259	2.359	0.9997	2.330	4.5	PASS	PASS
Phenanthrene	0.963	0.921	0.919	0.935	0.905	0.904	0.948	0.9999	0.928	2.4	PASS	PASS
Anthracene	0.867	0.919	0.829	0.878	0.877	0.915	0.981	1.0000	0.895	5.4	PASS	PASS
Fluoranthene	0.933	0.885	0.865	0.899	0.893	0.905	0.955	1.0000	0.905	3.3	PASS	PASS
Pyrene	0.987	0.964	0.891	0.919	0.942	0.884	0.988	0.9993	0.939	4.6	PASS	PASS
Benz[a]anthracene	1.109	1.076	1.069	1.168	1.354	1.272	1.427	0.9993	1.211	11.8	PASS	PASS
Chrysene	0.927	0.842	0.886	0.897	0.917	0.860	0.940	0.9983	0.896	4.0	PASS	PASS

JC 9.15.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.623	0.613	0.654	0.714	0.727	0.736	0.798	0.9999	0.695	9.7	PASS	PASS
Benzo[k]fluoranthene	0.918	0.942	1.049	1.049	1.058	1.010	0.954	1.0000	0.997	5.9	PASS	PASS
Benzo(e)pyrene	0.945	0.880	0.870	0.902	0.898	0.923	0.907	0.9997	0.904	2.8	PASS	PASS
Benzo[a]pyrene	1.174	1.043	0.998	0.963	0.972	0.926	0.943	0.9998	1.003	8.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.477	0.581	0.650	0.950	1.079	1.117	1.188	0.9998	0.863	33.4	PASS	PASS
Dibenz[a,h]anthracene	0.510	0.535	0.589	0.648	0.785	0.824	0.874	0.9997	0.681	21.5	PASS	PASS
Benzo[g,h,i]perylene	0.618	0.756	0.756	0.910	0.958	0.947	0.977	0.9999	0.846	16.1	PASS	PASS
									Average %RSD	8.0		

dmm 9/15/14

DC
9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\091214 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
RB-LL PAH	130463	3.03	468169	4.36	207778	6.83	407684	9.11	397644	13.24	508869	15.50
0.25ppm	139684	3.03	493383	4.36	243608	6.82	531573	9.11	515381	13.24	648968	15.49
0.5ppm	153311	3.02	539811	4.36	236612	6.82	501426	9.11	483647	13.24	600405	15.49
1.0ppm	160966	3.03	548698	4.36	241617	6.82	443637	9.11	427573	13.24	525260	15.49
2.0ppm	141649	3.02	503324	4.36	240545	6.82	484101	9.11	483331	13.24	591803	15.49
5.0ppm	148545	3.03	543179	4.36	265734	6.82	561237	9.11	551219	13.24	726179	15.49
20ppm	130997	3.03	475025	4.36	230551	6.82	440598	9.11	436839	13.24	598307	15.49
10ppm LL I	157111	3.03	566900	4.37	251993	6.83	513806	9.11	539504	13.25	678435	15.50

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\september 2014\091214 ll crv\10ppm LL IC **Acquisition Date:** 9/12/2014 15:41

Comment: sv110-0623

SampleID: 10ppm LL ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.70	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.51	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.81		10.00	98 %	80 - 120	PASS
6)	Acenaphthylene	10.50	ng	10.00	105 %	80 - 120	PASS
8)	Acenaphthene	10.09	ng	10.00	101 %	80 - 120	PASS
9)	n-hexadecane	45.38		45.00	101 %	80 - 120	PASS
10)	Fluorene	10.53	ng	10.00	105 %	80 - 120	PASS
12)	Phenanthrene	10.30	ng	10.00	103 %	80 - 120	PASS
13)	Anthracene	10.47	ng	10.00	105 %	80 - 120	PASS
14)	Fluoranthene	10.64	ng	10.00	106 %	80 - 120	PASS
15)	Pyrene	10.01	ng	10.00	100 %	80 - 120	PASS
16)	Benz[a]anthracene	10.44	ng	10.00	104 %	80 - 120	PASS
18)	Chrysene	9.96	ng	10.00	100 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	10.53	ng	10.00	105 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.77	ng	10.00	98 %	80 - 120	PASS
21)	Benzo(e)pyrene	9.77		10.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.64	ng	10.00	96 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	10.12	ng	10.00	101 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.31	ng	10.00	103 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	10.04	ng	10.00	100 %	80 - 120	PASS

* indicates Internal Standard.

dam 9/15/14

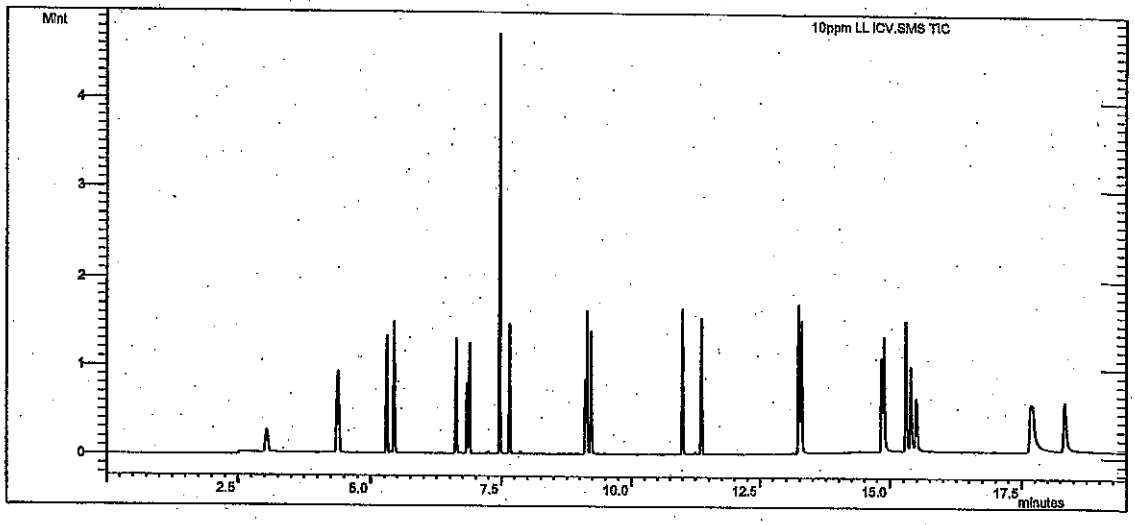
JC 1-15-14

8270C Report

Sample Name: 10ppm LL ICV **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 pah 091214.mth **Inj. Notes:** sv110-0623 **Acquisition Date:** 9/12/2014 3:41:58 PM

Calculation Date: 9/12/2014 10:00:18 PM



dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.034	206	Identified	157111	5.000
Naphthalene-d8 (I.S)	4.368	345	Identified	566900	5.000
Acenaphthene-d10 (I.S)	6.829	603	Identified	251993	5.000
Phenanthrene-d10	9.113	839	Identified	513806	5.000
Chrysene-d12 I.S	13.247	1265	Identified	539504	5.000
Perylene-d12 I.S	15.500	1499	Identified	678435	5.000
Naphthalene	4.395	348	Identified	887361	9.697
2-Methylnaphthalene	5.300	443	Identified	575139	9.514
1-Methylnaphthalene	5.442	457	Identified	757462	9.809
Acenaphthylene	6.619	581	Identified	924758	10.498
Acenaphthene	6.878	608	Identified	1.028E6	10.088
n-hexadecane	7.466	669	Identified	1.210E6	45.385
Fluorene	7.661	689	Identified	1.228E6	10.531
Phenanthrene	9.148	843	Identified	970025	10.297
Anthracene	9.228	851	Identified	986883	10.471
Fluoranthene	11.007	1036	Identified	998500	10.643
Pyrene	11.363	1073	Identified	997523	10.008
Benz[a]anthracene	13.231	1263	Identified	1.486E6	10.442
Chrysene	13.287	1269	Identified	981626	9.964
Benzo(b)fluoranthene	14.848	1432	Identified	1.068E6	10.530
Benzo[k]fluoranthene	14.890	1436	Identified	1.351E6	9.765
Benzo(e)pyrene	15.311	1479	Identified	1.195E6	9.775
Benzo[a]pyrene	15.400	1489	Identified	1.233E6	9.643
Indeno[1,2,3-cd]pyrene	17.681	1725	Identified	1.518E6	10.116

JC 9.15.14

dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.735	1731	Identified	1.132E6	10.309
Benzo[g,h,i]perylene	18.343	1793	Identified	1.299E6	10.036

```
************************************************************
Revision Log
************************************************************

9/12/2014 4:01 PM: Processed as Analysis sample using method:
   'C:\VarianWS\Methods\8270 pah 091214.mth'
9/12/2014 10:00 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 091214.mth'
```

JC 9.15.14

Analytical Report
Lab Order: **1409570**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1409570

Lab ID: 1409570-001
Client Sample ID: FFOR-CF-0090 FV: 2

Collection Date: 9/11/2014 7:56:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 09/16/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	0.011	0.040	J	mg/Kg	1	15272	9/15/2014 12:43:55 PM
1-Methylnaphthalene	ND	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
2-Methylnaphthalene	ND	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Acenaphthylene	ND	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Acenaphthene	0.023	0.040	J	mg/Kg	1	15272	9/15/2014 12:43:55 PM
Fluorene	0.017	0.040	J	mg/Kg	1	15272	9/15/2014 12:43:55 PM
Phenanthrene	0.14	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Anthracene	0.037	0.040	J	mg/Kg	1	15272	9/15/2014 12:43:55 PM
Fluoranthene	0.21	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Pyrene	0.18	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Benz(a)anthracene	0.12	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Chrysene	0.11	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Benzo(b)fluoranthene	0.26	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Benzo(k)fluoranthene	ND	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Benzo(a)pyrene	0.11	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Dibenz(a,h)anthracene	0.32	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Benzo(g,h,i)perylene	0.75	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Indeno(1,2,3-cd)pyrene	0.26	0.040		mg/Kg	1	15272	9/15/2014 12:43:55 PM
Surr: N-hexadecane	107	27-106	S	%REC	1	15272	9/15/2014 12:43:55 PM
Surr: Benzo(e)pyrene	119	34.7-131		%REC	1	15272	9/15/2014 12:43:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

8270 Internal Standard	ALL	26282	Container-01 of 01	500 dam 9/15	µL	
				20 dam 9/15	µL	

CALS Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: 9/14/2014 5:35:06 A
Prep End Date:

Time Started: 11:00 Reviewed By: Extraction Method
Time Ended: 5:00 dam 9/15/14 3540

SR 9.14

Prep Batch ID: **15272** Prep Code: **8270_S_PRSI** Method No: **8270C**
Initial Temp: °C Final Temp °C

Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15272	SR 9.14	Solid			30	0	0	1	0.033	9/14/2014	
LCS-15272		Solid			30	0	0	1	0.033	9/14/2014	
1409490-001A	FFOR-CF-0089	Soil			30.31	0	0	1	0.033	9/14/2014	
1409490-001AMS		Soil			30.07	0	0	1	0.033	9/14/2014	
1409490-001AMSD		Soil			30.16	0	0	1	0.033	9/14/2014	
1409570-001A	FFOR-CF-0090	Soil			30.09	0	0	1	0.033	9/14/2014	

dam 9/15 — 9.15.14 — DAM 4736

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15220	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 9/15	µL
ST8270-14035	100ppm PAH LCS	LCS	26544	Container-01 of 01	100 SC 9.14	µL
ST8310-14009	100ppm B(e)p, 450ppm N-Hex	SAMP	26232	Container-01 of 01	100	µL

****

Varian Star Workstation - 8400 SampleList Mon Sep 15 13:26:45 2014

SampleList: C:\VarianWS\091514.smp

Created: Mon Sep 15 08:23:34 2014
Modified: Mon Sep 15 13:26:17 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	10ppm 11 ccv	1	below	1	1.0
	Notes sv110-0620				
3	50ppm ccv	1	below	2	1.0
	Notes sv110-0608				
4	mb-15272	1	below	3	1.0
	Notes x1 LL soil				
5	lcs-15272	1	below	4	1.0
	Notes x1 LL soil				
6	1409490-001a	1	below	5	1.0
	Notes x1 LL soil				
7	1409490-001ams	1	below	6	1.0
	Notes x1 LL soil				
8	1409490-001amsd	1	below	7	1.0
	Notes x1 LL soil				
9	1409570-001a	1	below	8	1.0
	Notes x1 LL soil FV=2ml				
10					
11	mb-15227	1	below	9	1.0
	Notes x1 AQ				
12	lcs-15227	1	below	10	1.0
	Notes x1 AQ				
13	1409143-002e	1	below	11	1.0
	Notes x1 reext				
14	mb-15274	1	below	12	1.0
	Notes x1 AQ				
15	lcs-15274	1	below	13	1.0
	Notes x1 AQ				
16	lcsd-15274	1	below	14	1.0
	Notes x1 AQ				
17	1409452-001e	1	below	15	1.0
	Notes x1 AQ				
18	1409453-001b	1	below	16	1.0
	Notes x1 AQ				
19	1409453-002b	1	below	20	1.0
	Notes x1 AQ				
20	mb-15275	1	below	17	1.0
	Notes x1 tclp				
21	lcs-15275	1	below	18	1.0
	Notes x1 tclp				
22	1409245-005a	1	below	19	1.0
	Notes x1 tclp				
23	1409245-005ams	1	below	21	1.0
	Notes x1 tclp				
24	1409245-005amsd	1	below	22	1.0
	Notes x1 tclp				
25	1409356-001a	1	below	23	1.0
	Notes x1 tclp				
26					

dam 9/15/14

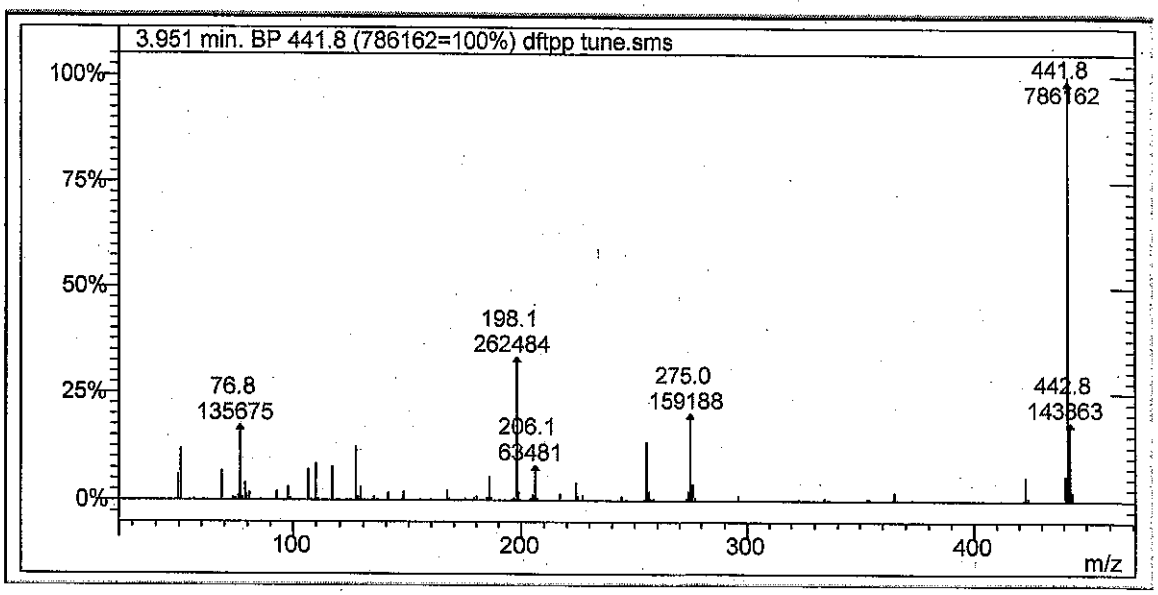
JC 9.15.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\091514.rcl.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/15/2014

Injection Time: 9:32

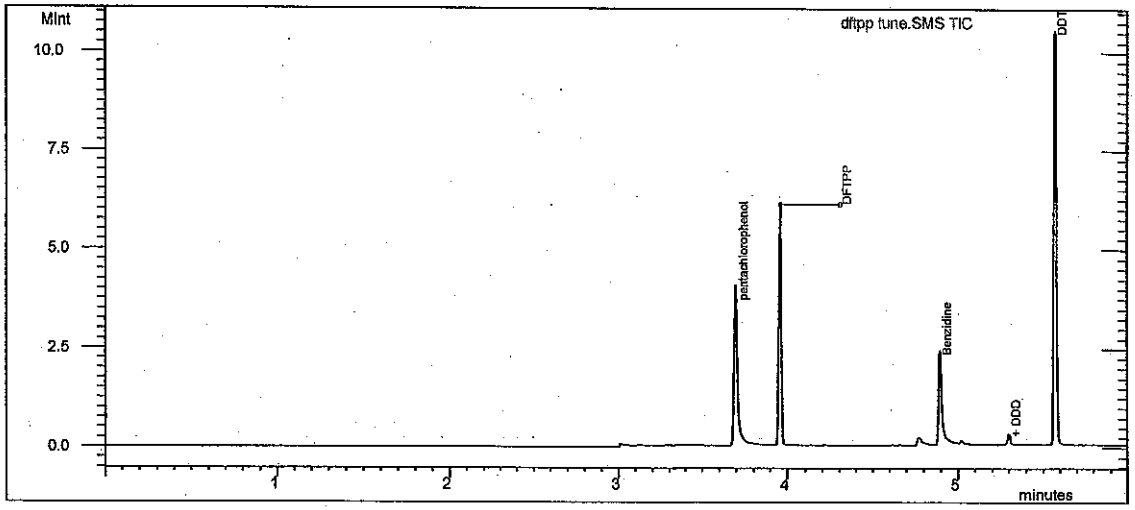
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	11.93	PASS
68	<2% of m/z 69	0.89	PASS
69	Present	6.68	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	12.32	PASS
197	<2% of m/z 198	1.48	PASS
198	Base peak	33.39	PASS
199	5-9% of m/z 198	5.95	PASS
275	10-60% of base peak	20.25	PASS
365	>1% of base peak	1.85	PASS
441	Present and <m/z 443	31.83	PASS
442	>50% of m/z 198	299.51	PASS
443	15-24% of m/z 442	18.30	PASS

dam 9/15/14

JC 9-15-14

Degradation Report

Acquisition Date:	9/15/2014 9:32:11 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.574	3.087E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.301	67420	5
DDE	5.070	53	6

% Degradation of **DDT : =** 2.139

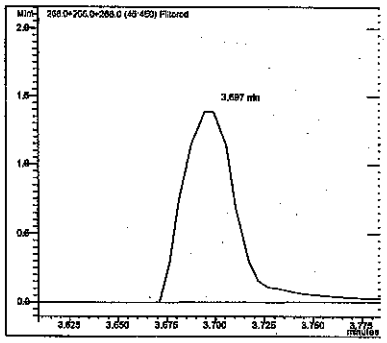
dam 9/15/14

JV 9.15.14

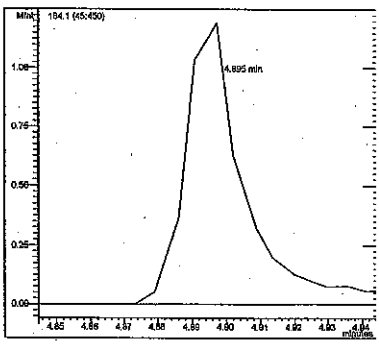
Tailing and Gaussian Factor Report

Acquisition Date: 9/15/2014 9:32:11 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0614

pentachlorophenol
RT = 3.697 Area = 2.763E6



Benzidine
RT = 4.895 Area = 1.588E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.697	1.771	0.792
Benzidine	4.895	1.445	0.671

#	Compound Name	RT	Area
1	pentachlorophenol	3.697	2.763E6
3	Benzidine	4.895	1.588E6

✓ dam 9/15/14

TC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\091214 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
10ppm ll c	159887	3.03	571745	4.37	258676	6.83	481818	9.12	462782	13.25	671545	15.50

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 9/15/14

JC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\091514\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 9/15/2014 Time Analyzed: 09:49

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	159887	3.03	571745	4.37	258676	6.83	481818	9.12	462782	13.25	671545	15.50
UPPER LIMIT	319774	3.53	1.143E6	4.87	517352	7.33	963636	9.62	925564	13.75	1.343E6	16.00
LOWER LIMIT	79944	2.53	285873	3.87	129338	6.33	240909	8.62	231391	12.75	335773	15.00
EPA SAMPLE NO												
mb-15272	144610	3.03	498137	4.37	226174	6.83	449010	9.11	456655	13.24	597631	15.50
lcs-15272	161227	3.03	580207	4.36	263587	6.82	506630	9.11	484214	13.24	672081	15.49
1409490-00	157323	3.03	534246	4.37	249559	6.83	485753	9.11	485040	13.24	647347	15.49
1409490-00	167686	3.03	604169	4.37	278332	6.83	523175	9.11	516855	13.24	730488	15.49
1409490-00	156715	3.03	555063	4.37	273563	6.83	509048	9.11	517846	13.24	685150	15.49
1409570-00	140470	3.04	485627	4.37	214303	6.82	421124	9.11	445587	13.24	597980	15.49

dmm 9/15/14

JC 9-15-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm II ccv.sms **Acquisition Date:** 9/15/2014 9:49

Comment: sv110-0620

SampleID: 10ppm II ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.06	ng	10.00	91 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.16	ng	10.00	92 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.23		10.00	92 %	80 - 120	PASS
6)	Acenaphthylene	9.49	ng	10.00	95 %	80 - 120	PASS
8)	Acenaphthene	10.39	ng	10.00	104 %	80 - 120	PASS
9)	n-hexadecane	67.82		67.50	100 %	80 - 120	PASS
10)	Fluorene	9.66	ng	10.00	97 %	80 - 120	PASS
12)	Phenanthrene	10.02	ng	10.00	100 %	80 - 120	PASS
13)	Anthracene	9.75	ng	10.00	97 %	80 - 120	PASS
14)	Fluoranthene	9.60	ng	10.00	96 %	80 - 120	PASS
15)	Pyrene	10.26	ng	10.00	103 %	80 - 120	PASS
16)	Benz[a]anthracene	10.35	ng	10.00	104 %	80 - 120	PASS
18)	Chrysene	10.08	ng	10.00	101 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.72	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.05	ng	10.00	90 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.71		15.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.26	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.20	ng	10.00	92 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	8.93	ng	10.00	89 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.07	ng	10.00	91 %	80 - 120	PASS

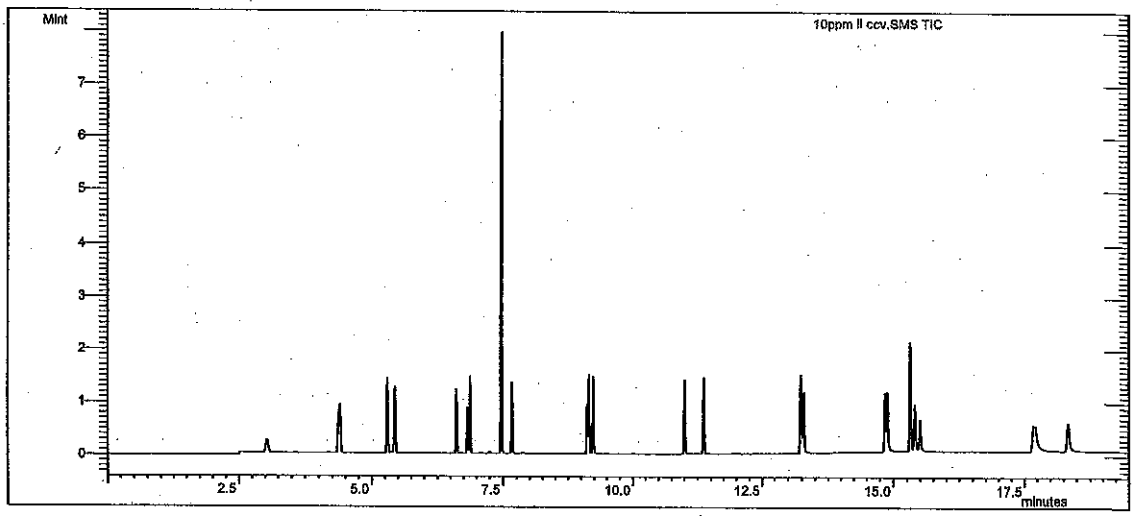
* indicates Internal Standard.

dam 9/15/14

JV 9-15-14

8270C Report

Sample Name:	10ppm II ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 091214.mth	**Inj. Notes:**	sv110-0620	**Acquisition Date:**	9/15/2014 9:49:35 AM
Calculation Date:	9/15/2014 10:09:06 AM				



dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.031	206	Identified	159887	5.000
Naphthalene-d8 (I.S)	4.370	342	Identified	571745	5.000
Acenaphthene-d10 (I.S)	6.830	593	Identified	258676	5.000
Phenanthrene-d10	9.116	825	Identified	481818	5.000
Chrysene-d12 I.S	13.247	1246	Identified	462782	5.000
Perylene-d12 I.S	15.498	1480	Identified	671545	5.000
Naphthalene	4.395	345	Identified	836559	9.065
2-Methylnaphthalene	5.300	437	Identified	558374	9.158
1-Methylnaphthalene	5.443	452	Identified	718919	9.231
Acenaphthylene	6.620	571	Identified	854490	9.494
Acenaphthene	6.879	598	Identified	1.088E6	10.391
n-hexadecane	7.469	658	Identified	1.859E6	67.822
Fluorene	7.661	677	Identified	1.154E6	9.657
Phenanthrene	9.151	829	Identified	884131	10.017
Anthracene	9.230	837	Identified	856749	9.745
Fluoranthene	11.008	1017	Identified	840503	9.601
Pyrene	11.364	1054	Identified	878914	10.265
Benz[a]anthracene	13.230	1245	Identified	1.263E6	10.354
Chrysene	13.230	1245	Identified	851764	10.079
Benzo(b)fluoranthene	14.846	1413	Identified	970651	9.723
Benzo[k]fluoranthene	14.889	1417	Identified	1.244E6	9.047
Benzo(e)pyrene	15.311	1460	Identified	1.794E6	14.713
Benzo[a]pyrene	15.398	1469	Identified	1.172E6	9.259
Indeno[1,2,3-cd]pyrene	17.679	1704	Identified	1.355E6	9.198

JV 9.15.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.733	1709	Identified	956878	8.926
Benzo[g,h,i]perylene	18.339	1771	Identified	1.159E6	9.072

****
Revision Log
****

9/15/2014 10:09 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 091214.mth'

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 9/12/14

Calibration Name: 091214

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☒	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☒	
Naphthalene	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
Phenanthrene	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature]

QA: [signature]

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

****

Varian Star Workstation - 8400 SampleList Fri Sep 12 13:08:18 2014

SampleList: C:\VarianWS\091214.smp

Created: Fri Sep 12 12:18:53 2014
Modified: Fri Sep 12 13:00:27 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0622				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0615				
5	0.5ppm	1	below	3	1.0
	Notes sv110-0616				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0617				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0618				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0619				
9	10ppm	1	below	7	1.0
	Notes sv110-0620				
10	20ppm	1	below	8	1.0
	Notes sv110-0621				
11	10ppm LL ICV	1	below	9	1.0
	Notes sv110-0623				
12					
13	RB-8270	1	below	10	1.0
	Notes sv110-0612				
14					
15	2.5ppm	1	below	11	1.0
	Notes sv110-0602				
16	5ppm	1	below	12	1.0
	Notes sv110-0603				
17	10ppm	1	below	13	1.0
	Notes sv110-0604				
18	20ppm	1	below	14	1.0
	Notes sv110-0605				
19	30ppm	1	below	15	1.0
	Notes sv110-0606				
20	40ppm	1	below	16	1.0
	Notes sv110-0607				
21	50ppm	1	below	17	1.0
	Notes sv110-0608				
22	80ppm	1	below	18	1.0
	Notes sv110-0609				
23	100ppm	1	below	19	1.0
	Notes sv110-0610				
24	120ppm	1	below	20	1.0
	Notes sv110-0611				
25	50ppm ICV	1	below	21	1.0
	Notes sv110-0613				
26					

Directory for Data Files: C:\VarianWS\data

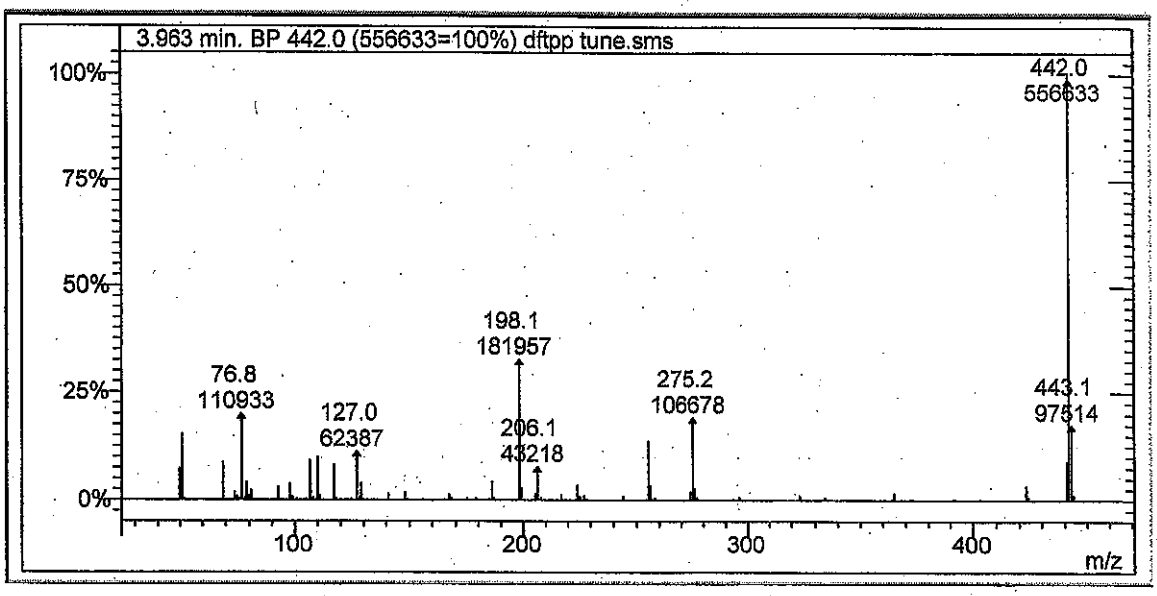
Data File Names: %s

Create and update a new RecalcList: c:\varianws\091214.rcl.

dam 9/15/14

JC
9.15.14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/12/2014

Injection Time: 12:25

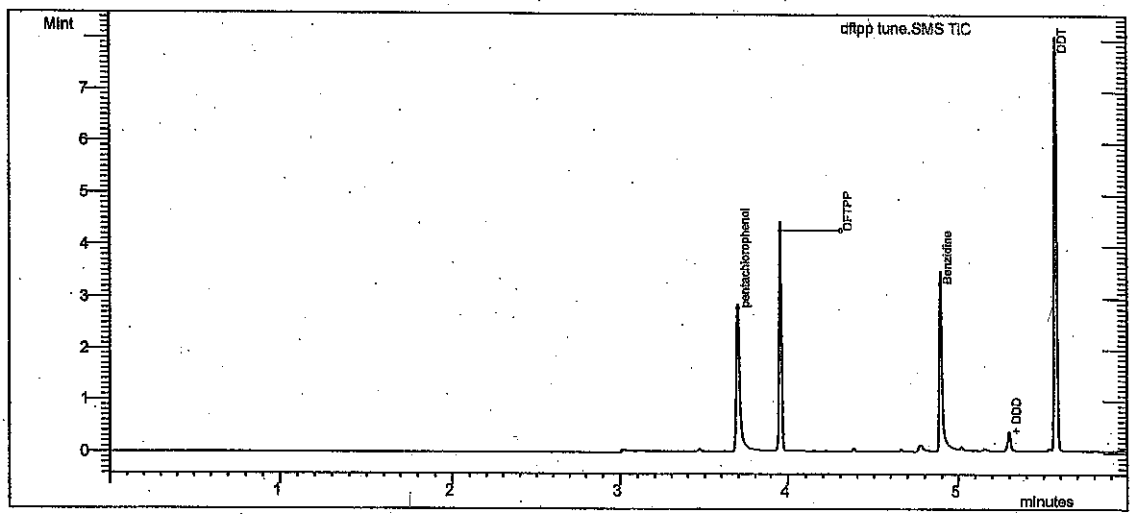
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	15.32	PASS
68	<2% of m/z 69	0.11	PASS
69	Present	8.76	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	11.21	PASS
197	<2% of m/z 198	0.26	PASS
198	Base peak	32.69	PASS
199	5-9% of m/z 198	8.94	PASS
275	10-60% of base peak	19.16	PASS
365	>1% of base peak	1.58	PASS
441	Present and <m/z 443	51.36	PASS
442	>50% of m/z 198	305.91	PASS
443	15-24% of m/z 442	17.52	PASS

dam 9/15/14

JC
9-15-14

Degradation Report

Acquisition Date:	9/12/2014 12:25:39 PM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.574	2.184E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.300	100818	5
DDE	5.085	23	6

% Degradation of DDT: = 4.413

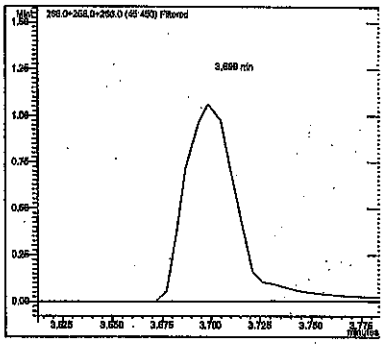
dlm 9/15/14

JC 9.15.14

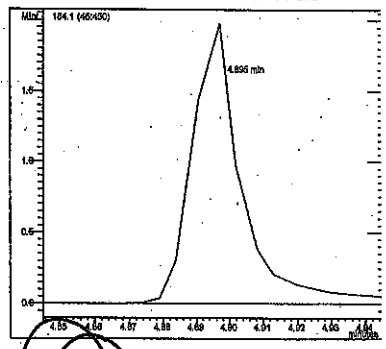
Tailing and Gaussian Factor Report

Acquisition Date: 9/12/2014 12:25:39 PM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0614

pentachlorophenol
RT = 3.699 Area = 2.048E6



Benzidine
RT = 4.895 Area = 2.167E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.699	1.670	0.763
Benzidine	4.895	1.100	0.789

#	Compound Name	RT	Area
1	pentachlorophenol	3.699	2.048E6
3	Benzidine	4.895	2.167E6

JV dam 9/15/14

TC 9.15.14

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

dam 9/15/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 9/12/2014

Instrument ID: ELMO Injection Time: 12:25

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
51	10-80% of base peak	15.3	
68	<2% of m/z 69	0.0 (0.1)	69
69	Present	8.8	
70	<2% of m/z 69	0.0	
127	10-80% of base peak	11.2	
197	<2% of m/z 198	0.1 (0.3)	198
198	Base peak	32.7	
199	5-9% of m/z 198	2.9 (8.9)	198
275	10-60% of base peak	19.2	
365	>1% of base peak	1.6	
441	Present and <m/z 443	9.0 (51.4)	443
442	>50% of m/z 198	100.0 (305.9)	198
443	15-24% of m/z 442	17.5	

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\september 2014\091214 II crv\RB-LL PAH.SMS	9/12/2014 12:36
20.25ppm	0.25ppm	h:\elmo\data\2014\september 2014\091214 II crv\0.25ppm.SMS	9/12/2014 12:59
30.5ppm	0.5ppm	h:\elmo\data\2014\september 2014\091214 II crv\0.5ppm.SMS	9/12/2014 13:22
41.0ppm	1.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\1.0ppm.SMS	9/12/2014 13:46
52.0ppm	2.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\2.0ppm.SMS	9/12/2014 14:09
65.0ppm	5.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\5.0ppm.SMS	9/12/2014 14:32
710ppm	10ppm	h:\elmo\data\2014\september 2014\091214 II crv\10ppm.SMS	9/12/2014 14:55
820ppm	20ppm	h:\elmo\data\2014\september 2014\091214 II crv\20ppm .SMS	9/12/2014 15:18
910ppm LL I	10ppm LL ICV	h:\elmo\data\2014\september 2014\091214 II crv\10ppm LL ICV.SMS	9/12/2014 15:41

9.15.14

Print Date: 12 Sep 2014 21:54:58

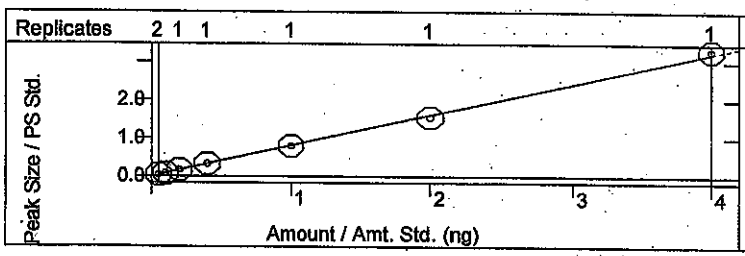
Calibration Curves Report

dam 9/15/14

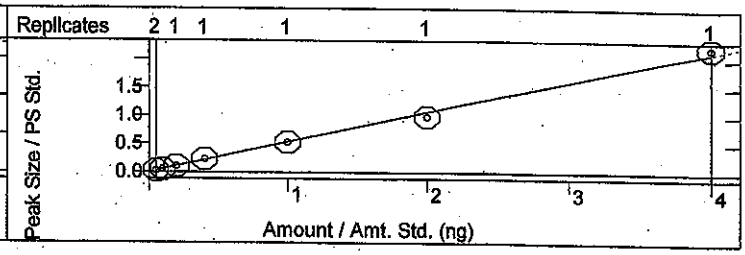
Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 9-15-14

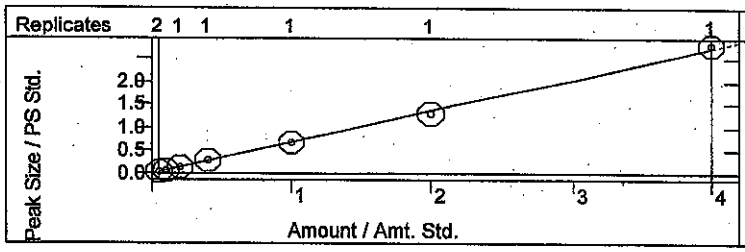
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.493%, Coeff. Det.(r2): 0.999027
y = +0.8079x -0.0015



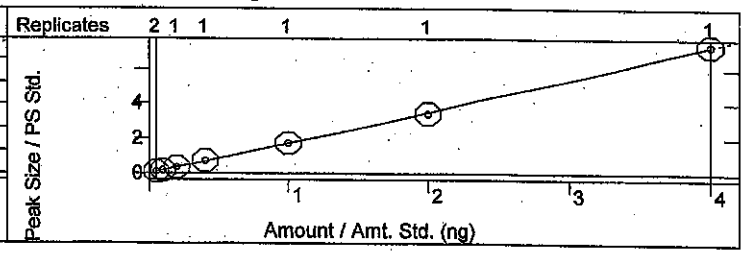
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.442%, Coeff. Det.(r2): 0.996773
y = +0.5336x -7.4405e-4



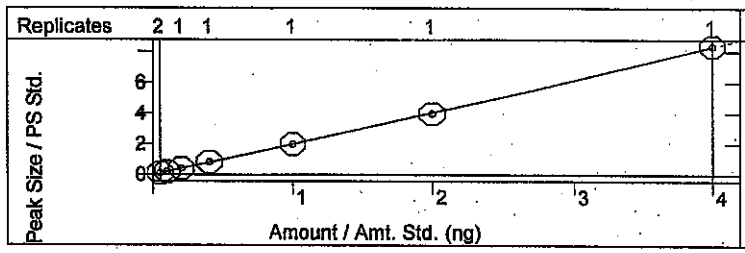
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.908%, Coeff. Det.(r2): 0.998706
y = +0.6808x +6.1613e-4



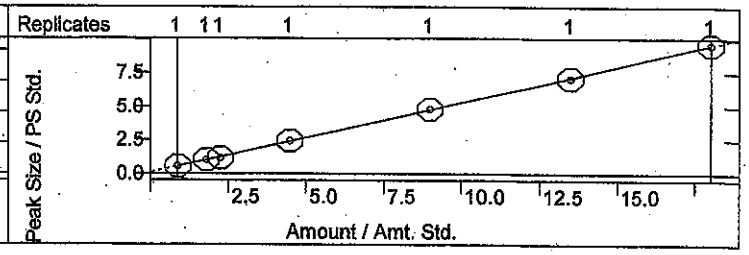
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.352%, Coeff. Det.(r2): 0.999843
y = +0.0434x2 +1.6509x +0.0122



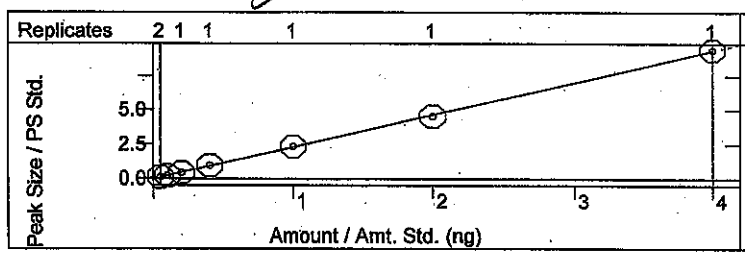
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.858%, Coeff. Det.(r2): 0.999892
y = +0.0347x2 +1.9447x +0.0140



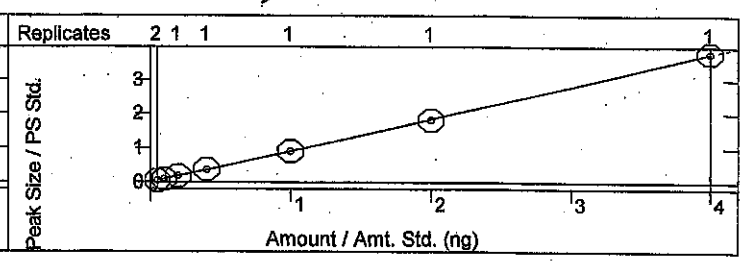
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.000%, Coeff. Det.(r2): 0.999845
y = +8.8897e-4x2 +0.5106x
+0.0957



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.461%, Coeff. Det.(r2): 0.999745
y = +0.0201x2 +2.2674x +0.0071



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.391%, Coeff. Det.(r2): 0.999919
y = +0.0153x2 +0.8829x +0.0050



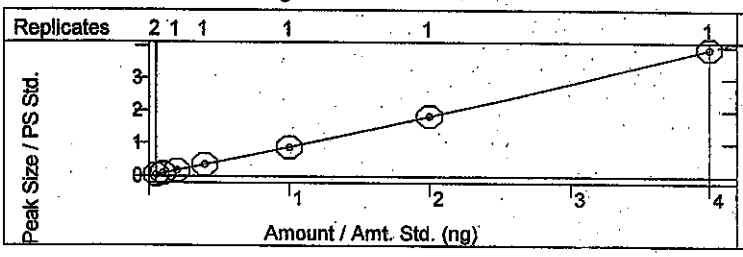
Calibration Curves Report

Dan 9/15/14

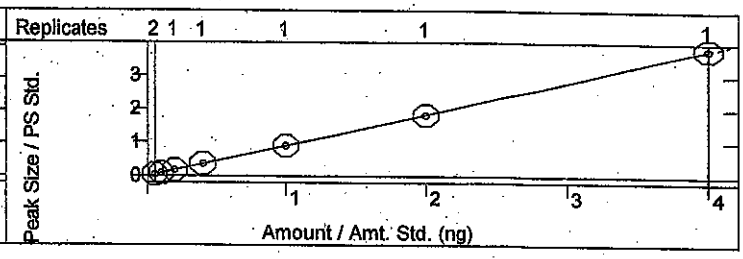
Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

50
9-16-14

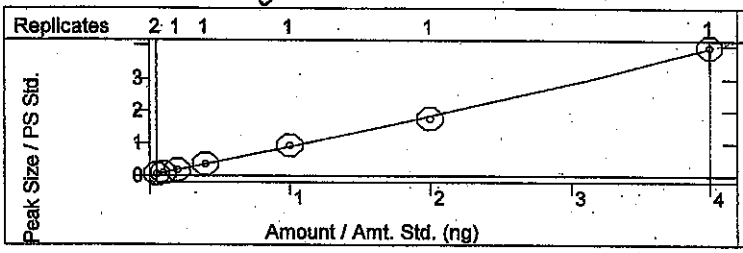
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.422%, Coeff. Det.(r2): 0.999990
y = +0.0339x2 +0.8451x +0.0023



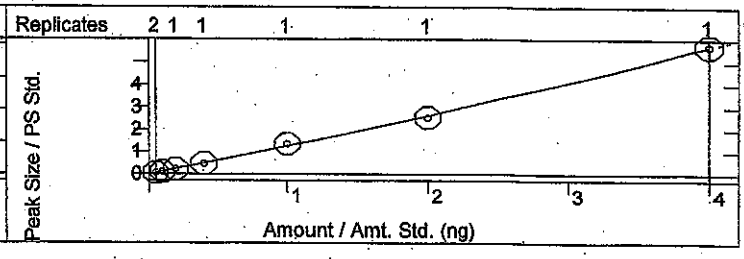
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.323%, Coeff. Det.(r2): 0.999982
y = +0.0221x2 +0.8645x +0.0028



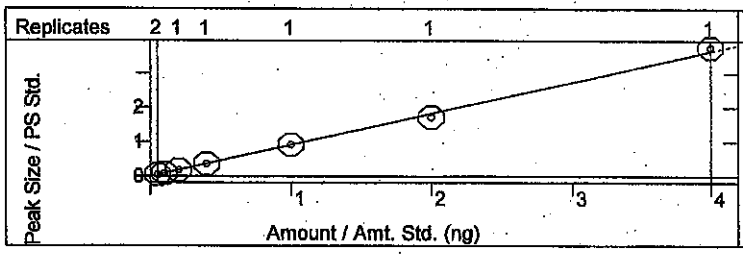
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.581%, Coeff. Det.(r2): 0.999253
y = +0.0297x2 +0.8601x +0.0083



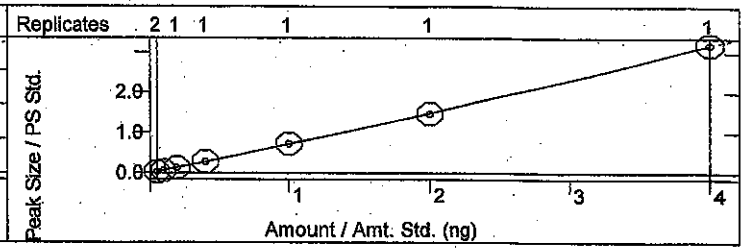
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.76%, Coeff. Det.(r2): 0.999310
y = +0.0526x2 +1.2146x -0.0111



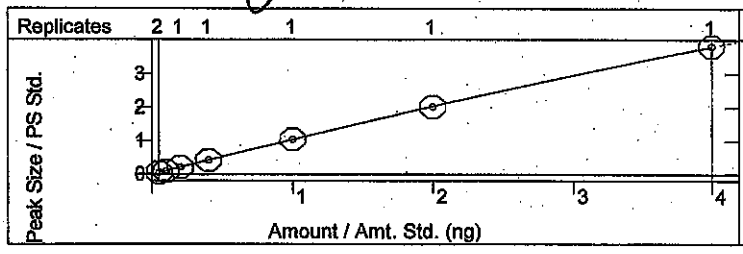
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.977%, Coeff. Det.(r2): 0.998292
y = +0.9147x -0.0034



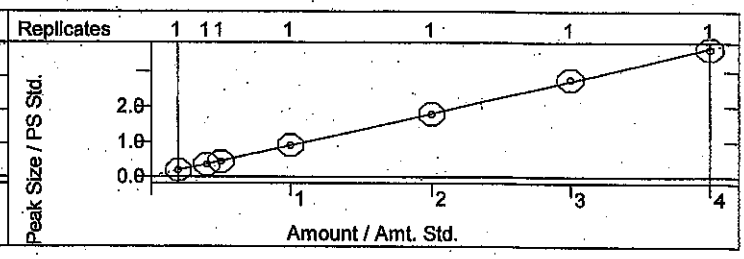
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.700%, Coeff. Det.(r2): 0.999928
y = +0.0252x2 +0.6970x -0.0054



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.854%, Coeff. Det.(r2): 0.999962
y = -0.0336x2 +1.0899x -0.0099



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.820%, Coeff. Det.(r2): 0.999688
y = +0.0073x2 +0.8848x +0.0044

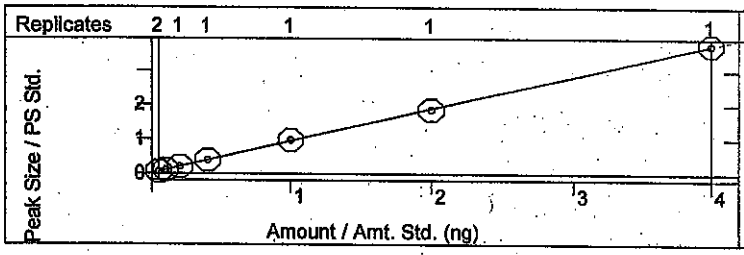


Calibration Curves Report

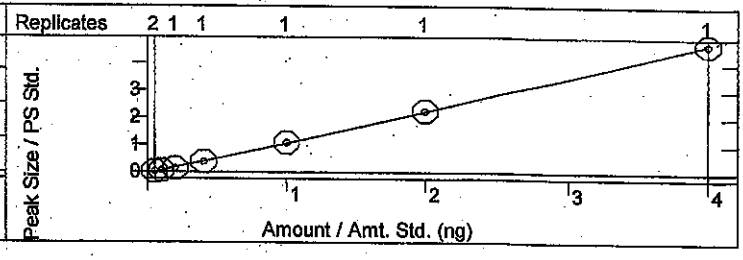
dam 9/15/14

Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

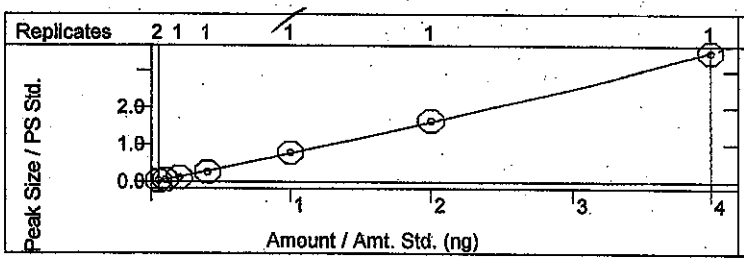
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.461%, Coeff. Det.(r2): 0.999841
y = +3.5585e-4x2 +0.9356x +0.0119



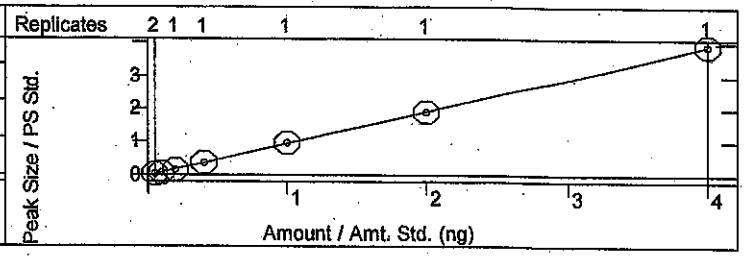
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.37%, Coeff. Det.(r2): 0.999787
y = +0.0388x2 +1.0473x -0.0405



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 21.49%, Coeff. Det.(r2): 0.999688
y = +0.0340x2 +0.7479x -0.0186



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.14%, Coeff. Det.(r2): 0.999909
y = +0.0092x2 +0.9449x -0.0194



JC 9-15-14

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 9/12/2014 9/12/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 15:18 15:18

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

dam 9/15/14

Index: 1 Level: 2 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 2 Level: 3 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 3 Level: 4 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 4 Level: 5 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 5 Level: 6 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 6 Level: 7 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates
Index: 7 Level: 8 Replicate: 1 Acquired: 9/12/2014 15:18 File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.813	0.752	0.828	0.808	0.796	0.774	0.826	0.9990	0.800	3.5	PASS	PASS
2-Methylnaphthalene	0.553	0.504	0.512	0.567	0.524	0.491	0.554	0.9968	0.529	5.4	PASS	PASS
1-Methylnaphthalene	0.739	0.646	0.677	0.708	0.674	0.648	0.698	0.9987	0.684	4.9	PASS	PASS
Acenaphthylene	1.833	1.805	1.693	1.775	1.723	1.710	1.834	0.9998	1.767	3.4	PASS	PASS
Acenaphthene	2.153	2.094	2.029	2.076	1.999	1.989	2.094	0.9999	2.062	2.9	PASS	PASS
n-hexadecane	0.630	0.576	0.522	0.544	0.534	0.526	0.532	0.9998	0.552	7.0	PASS	PASS
Fluorene	2.480	2.277	2.170	2.420	2.341	2.259	2.359	0.9997	2.330	4.5	PASS	PASS
Phenanthrene	0.963	0.921	0.919	0.935	0.905	0.904	0.948	0.9999	0.928	2.4	PASS	PASS
Anthracene	0.867	0.919	0.829	0.878	0.877	0.915	0.981	1.0000	0.895	5.4	PASS	PASS
Fluoranthene	0.933	0.885	0.865	0.899	0.893	0.905	0.955	1.0000	0.905	3.3	PASS	PASS
Pyrene	0.987	0.964	0.891	0.919	0.942	0.884	0.988	0.9993	0.939	4.6	PASS	PASS
Benz[a]anthracene	1.109	1.076	1.069	1.168	1.354	1.272	1.427	0.9993	1.211	11.8	PASS	PASS
Chrysene	0.927	0.842	0.886	0.897	0.917	0.860	0.940	0.9983	0.896	4.0	PASS	PASS

JC 9.15.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.623	0.613	0.654	0.714	0.727	0.736	0.798	0.9999	0.695	9.7	PASS	PASS
Benzo[k]fluoranthene	0.918	0.942	1.049	1.049	1.058	1.010	0.954	1.0000	0.997	5.9	PASS	PASS
Benzo(e)pyrene	0.945	0.880	0.870	0.902	0.898	0.923	0.907	0.9997	0.904	2.8	PASS	PASS
Benzo[a]pyrene	1.174	1.043	0.998	0.963	0.972	0.926	0.943	0.9998	1.003	8.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.477	0.581	0.650	0.950	1.079	1.117	1.188	0.9998	0.863	33.4	PASS	PASS
Dibenz[a,h]anthracene	0.510	0.535	0.589	0.648	0.785	0.824	0.874	0.9997	0.681	21.5	PASS	PASS
Benzo[g,h,i]perylene	0.618	0.756	0.756	0.910	0.958	0.947	0.977	0.9999	0.846	16.1	PASS	PASS
									Average %RSD	8.0		

dmm 9/15/14

DC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\091214 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
RB-LL PAH	130463	3.03	468169	4.36	207778	6.83	407684	9.11	397644	13.24	508869	15.50
0.25ppm	139684	3.03	493383	4.36	243608	6.82	531573	9.11	515381	13.24	648968	15.49
0.5ppm	153311	3.02	539811	4.36	236612	6.82	501426	9.11	483647	13.24	600405	15.49
1.0ppm	160966	3.03	548698	4.36	241617	6.82	443637	9.11	427573	13.24	525260	15.49
2.0ppm	141649	3.02	503324	4.36	240545	6.82	484101	9.11	483331	13.24	591803	15.49
5.0ppm	148545	3.03	543179	4.36	265734	6.82	561237	9.11	551219	13.24	726179	15.49
20ppm	130997	3.03	475025	4.36	230551	6.82	440598	9.11	436839	13.24	598307	15.49
10ppm LL I	157111	3.03	566900	4.37	251993	6.83	513806	9.11	539504	13.25	678435	15.50

dam 9/15/14

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
*. Values outside QC limits.
D. Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\september 2014\091214 ll crv\10ppm LL IC **Acquisition Date:** 9/12/2014 15:41

Comment: sv110-0623

SampleID: 10ppm LL ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.70	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.51	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.81		10.00	98 %	80 - 120	PASS
6)	Acenaphthylene	10.50	ng	10.00	105 %	80 - 120	PASS
8)	Acenaphthene	10.09	ng	10.00	101 %	80 - 120	PASS
9)	n-hexadecane	45.38		45.00	101 %	80 - 120	PASS
10)	Fluorene	10.53	ng	10.00	105 %	80 - 120	PASS
12)	Phenanthrene	10.30	ng	10.00	103 %	80 - 120	PASS
13)	Anthracene	10.47	ng	10.00	105 %	80 - 120	PASS
14)	Fluoranthene	10.64	ng	10.00	106 %	80 - 120	PASS
15)	Pyrene	10.01	ng	10.00	100 %	80 - 120	PASS
16)	Benz[a]anthracene	10.44	ng	10.00	104 %	80 - 120	PASS
18)	Chrysene	9.96	ng	10.00	100 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	10.53	ng	10.00	105 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.77	ng	10.00	98 %	80 - 120	PASS
21)	Benzo(e)pyrene	9.77		10.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.64	ng	10.00	96 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	10.12	ng	10.00	101 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.31	ng	10.00	103 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	10.04	ng	10.00	100 %	80 - 120	PASS

* indicates Internal Standard.

dam 9/15/14

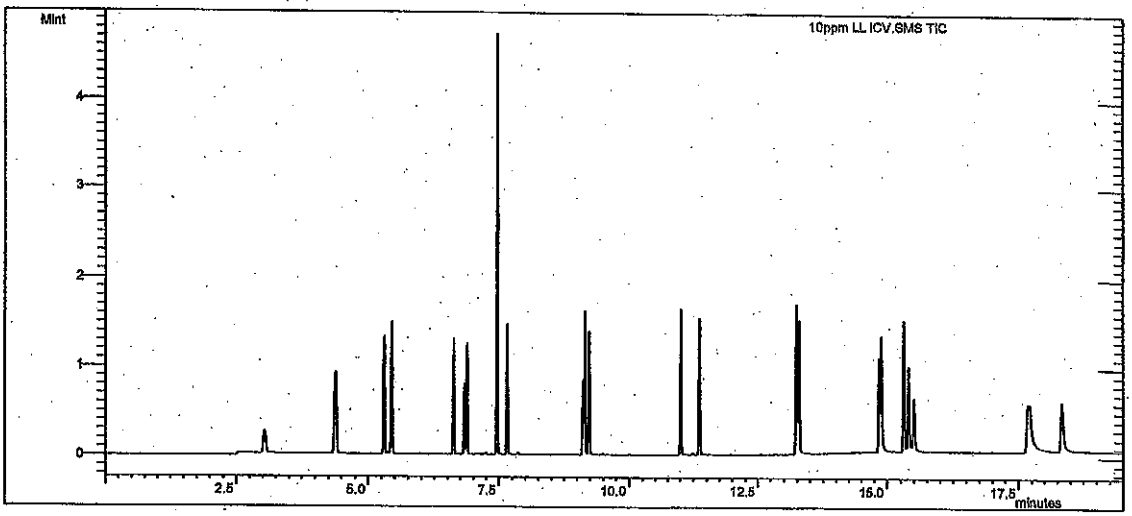
JC 9-15-14

8270C Report

Sample Name: 10ppm LL ICV **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 pah 091214.mth **Inj. Notes:** sv110-0623 **Acquisition Date:** 9/12/2014 3:41:58 PM

Calculation Date: 9/12/2014 10:00:18 PM



dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.034	206	Identified	157111	5.000
Naphthalene-d8 (I.S)	4.368	345	Identified	566900	5.000
Acenaphthene-d10 (I.S)	6.829	603	Identified	251993	5.000
Phenanthrene-d10	9.113	839	Identified	513806	5.000
Chrysene-d12 I.S	13.247	1265	Identified	539504	5.000
Perylene-d12 I.S	15.500	1499	Identified	678435	5.000
Naphthalene	4.395	348	Identified	887361	9.697
2-Methylnaphthalene	5.300	443	Identified	575139	9.514
1-Methylnaphthalene	5.442	457	Identified	757462	9.809
Acenaphthylene	6.619	581	Identified	924758	10.498
Acenaphthene	6.878	608	Identified	1.028E6	10.088
n-hexadecane	7.466	669	Identified	1.210E6	45.385
Fluorene	7.661	689	Identified	1.228E6	10.531
Phenanthrene	9.148	843	Identified	970025	10.297
Anthracene	9.228	851	Identified	986883	10.471
Fluoranthene	11.007	1036	Identified	998500	10.643
Pyrene	11.363	1073	Identified	997523	10.008
Benz[a]anthracene	13.231	1263	Identified	1.486E6	10.442
Chrysene	13.287	1269	Identified	981626	9.964
Benzo(b)fluoranthene	14.848	1432	Identified	1.068E6	10.530
Benzo[k]fluoranthene	14.890	1436	Identified	1.351E6	9.765
Benzo(e)pyrene	15.311	1479	Identified	1.195E6	9.775
Benzo[a]pyrene	15.400	1489	Identified	1.233E6	9.643
Indeno[1,2,3-cd]pyrene	17.681	1725	Identified	1.518E6	10.116

JC 9.15.14

dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.735	1731	Identified	1.132E6	10.309
Benzo[g,h,i]perylene	18.343	1793	Identified	1.299E6	10.036

```
************************************************************
Revision Log
************************************************************

9/12/2014 4:01 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 091214.mth'
9/12/2014 10:00 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 091214.mth'
```

Analytical Report
Lab Order: **1409712**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1409712

Lab ID: 1409712-001
Client Sample ID: FFOR-CF-0091
Collection Date: 9/16/2014 7:40:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 09/17/2014							
EPA METHOD 8270C: PAHS							Analyst: **DAM**
Naphthalene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Acenaphthylene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Acenaphthene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Fluorene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Phenanthrene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Anthracene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Fluoranthene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Pyrene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Chrysene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	15318	9/17/2014 1:02:57 PM
Benzo(g,h,i)perylene	0.013	0.020	J	mg/Kg	1	15318	9/17/2014 1:02:57 PM
Indeno(1,2,3-cd)pyrene	0.013	0.020	J	mg/Kg	1	15318	9/17/2014 1:02:57 PM
Surr: N-hexadecane	97.9	27-106		%REC	1	15318	9/17/2014 1:02:57 PM
Surr: Benzo(e)pyrene	102	34.7-131		%REC	1	15318	9/17/2014 1:02:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Chemical	4573	Sodium Hydroxide	14934	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	15220	Container-01 of 01	0	mL
Chemical	4736	Methylene Chloride	15254	Container-01 of 01	0	mL
Chemical	4745	Sulfuric Acid				

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
[illegible]	8270 TCLP LCS	LCS	25449	Container-01 of 01	500 SC 9/15	µL
[illegible]	8270 PAH Surrogate	SAMP	25746	Container-01 of 01	500	µL
[illegible]	8270 Universal Surrogate	SAMP	26282	Container-01 of 01	20 dam 9/13	µL

Environmental Analysis Laboratory

Time Started: 1130
Time Ended: 5:30

SC 9/16

PREP BATCH REPORT

Page 1 of 1

Prep Start Date: **9/16/2014 10:55:17**
Prep End Date:

Extraction Method 3540

Reviewed By: dam 9/17/14

Prep Batch ID: **15318** Prep Code: **8270_S_PRSI** Method No: **8270C**

Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-15318	SC 9/16	Solid			30	0	0	dam 9/17 1	0.033	9/16/2014	9.17.14 DAM 4747
LCS-15318		Solid			30	0	0	1	0.033	9/16/2014	
1409712-001A	FFOR-CF-0091	Soil			30.31	0	0	1	0.033	9/16/2014	
1409712-001AMS		Soil			30.09	0	0	1	0.033	9/16/2014	
1409712-001AMSD		Soil			30.10	0	0	1	0.033	9/16/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4629	Ottawa Sand	14835	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4747	Methylene Chloride	15259	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14033	LL PAH IS	SAMP	26301	Container-01 of 01	20 dam 9.17	µL
ST8270-14035	100ppm PAH LCS	LCS	26544	Container-01 of 01	100 SC 9/16	µL
ST8310-14009	100ppm B(e)p, 450ppm N-Hex	SAMP	26232	Container-01 of 01	100	µL

****

Varian Star Workstation - 8400 SampleList Wed Sep 17 14:20:05 2014

SampleList: C:\VarianWS\091714.smp

Created: Wed Sep 17 09:35:45 2014
Modified: Wed Sep 17 14:14:16 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	10ppm ll ccv	1	below	1	1.0
	Notes sv110-0620				
3	mb-15318	1	below	2	1.0
	Notes x1 LL soil				
4	lcs-15318	1	below	3	1.0
	Notes x1 LL soil				
5	1409712-001a	1	below	4	1.0
	Notes x1 LL soil				
6	1409712-001ams	1	below	5	1.0
	Notes x1 LL soil				
7	1409712-001amsd	1	below	6	1.0
	Notes x1 LL soil				
8					
9	BO test	1	below	7	1.0
	Notes no heat				
10	RH test	1	below	8	1.0
	Notes reduced heat				
11					

dam 9/17/14

JV 9.17.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\091714.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 9/12/14

Calibration Name: 091214

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

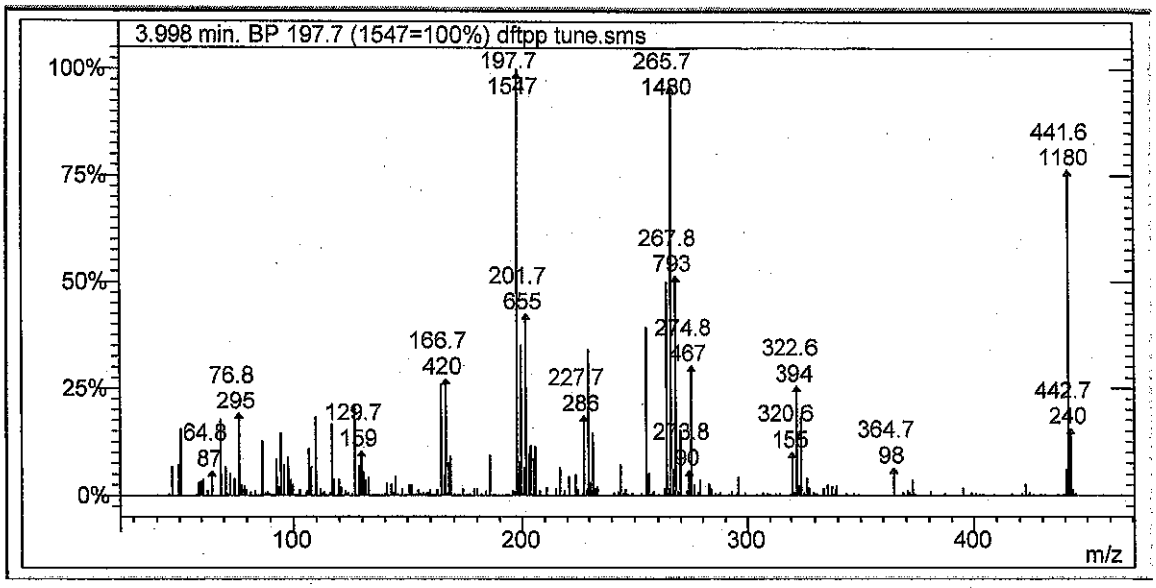
Analyst: [signature]

QA: [signature]

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/17/2014

Injection Time: 11:30

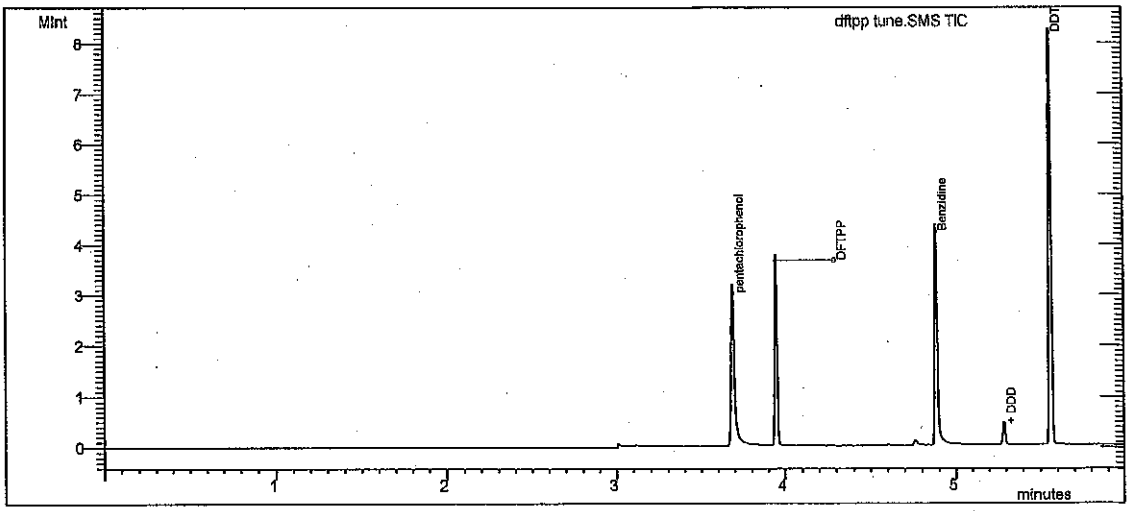
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	15.38	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	17.65	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	20.94	PASS
197	<2% of m/z 198	0.97	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	7.82	PASS
275	10-60% of base peak	30.19	PASS
365	>1% of base peak	6.33	PASS
441	Present and <m/z 443	39.58	PASS
442	>50% of m/z 198	76.28	PASS
443	15-24% of m/z 442	20.34	PASS

dam 9/17/14

JC 9.17.14

Degradation Report

Acquisition Date:	9/17/2014 11:30:39 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	2.230E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.289	121730	5
DDE	5.009	2526	6

% Degradation of **DDT : =** 5.277

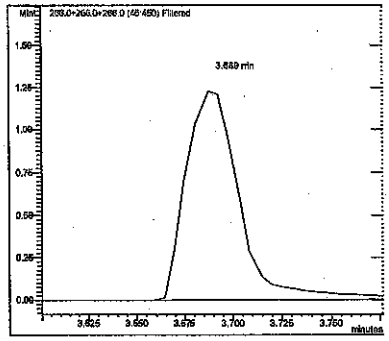
dm 9/17/14

TV 9.17.14

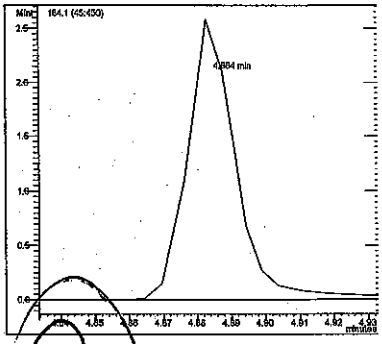
Tailing and Gaussian Factor Report

Acquisition Date:	9/17/2014 11:30:39 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0614

pentachlorophenol
RT = 3.689 Area = 2.403E6



Benzidine
RT = 4.884 Area = 2.638E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.689	1.647	0.778
Benzidine	4.884	1.322	0.897

#	Compound Name	RT	Area
1	pentachlorophenol	3.689	2.403E6
3	Benzidine	4.884	2.638E6

dm 9/17/14

JV 9.17.14

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll ccv.sms **Acquisition Date:** 9/17/2014 11:47

Comment: sv110-0620

SampleID: 10ppm ll ccv **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.29	ng	10.00	93 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.41	ng	10.00	94 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.27		10.00	93 %	80 - 120	PASS
6)	Acenaphthylene	10.17	ng	10.00	102 %	80 - 120	PASS
8)	Acenaphthene	10.04	ng	10.00	100 %	80 - 120	PASS
9)	n-hexadecane	66.46		67.50	98 %	80 - 120	PASS
10)	Fluorene	9.19	ng	10.00	92 %	80 - 120	PASS
12)	Phenanthrene	9.86	ng	10.00	99 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.85	ng	10.00	99 %	80 - 120	PASS
15)	Pyrene	10.30	ng	10.00	103 %	80 - 120	PASS
16)	Benz[a]anthracene	10.90	ng	10.00	109 %	80 - 120	PASS
18)	Chrysene	9.73	ng	10.00	97 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	10.49	ng	10.00	105 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	8.95	ng	10.00	90 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.18		15.00	101 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.44	ng	10.00	94 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	10.13	ng	10.00	101 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	11.20	ng	10.00	112 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.59	ng	10.00	96 %	80 - 120	PASS

* indicates Internal Standard.

dam 9/17/14

JV 9.17.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\091214 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
10ppm ll c	135698	3.03	499239	4.37	233246	6.83	450304	9.11	437364	13.24	627083	15.49

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 9/17/14
JC 9.17.14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \elmo\data\2014\september 2014\091714\10ppm ll ccv.SMS Lab Sample ID: 10ppm ll ccv

Instrument ID: ELMO Date Analyzed: 9/17/2014 Time Analyzed: 11:47

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	135698	3.03	499239	4.37	233246	6.83	450304	9.11	437364	13.24	627083	15.49
UPPER LIMIT	271396	3.53	998478	4.87	466492	7.33	900608	9.61	874728	13.74	1.254E6	15.99
LOWER LIMIT	67849	2.53	249620	3.87	116623	6.33	225152	8.61	218682	12.74	313542	14.99
EPA SAMPLE NO												
mb-15318	137606	3.03	482128	4.37	228695	6.83	416367	9.11	436068	13.24	580274	15.49
lcs-15318	142794	3.03	514780	4.37	230105	6.82	407262	9.11	431717	13.24	594552	15.49
1409712-00	146211	3.03	535735	4.37	222527	6.83	437714	9.11	439415	13.24	629693	15.49
1409712-00	156431	3.03	559229	4.37	246148	6.83	510334	9.11	499549	13.24	710393	15.49
1409712-00	129920	3.03	483744	4.37	216050	6.83	422319	9.11	406839	13.24	569874	15.49

dum 9/17/14

JV 9.17.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 9/12/14

Calibration Name: 091214

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature]

QA: [signature]

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

****

Varian Star Workstation - 8400 SampleList Fri Sep 12 13:08:18 2014

SampleList: C:\VarianWS\091214.smp

Created: Fri Sep 12 12:18:53 2014
Modified: Fri Sep 12 13:00:27 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0614				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0622				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0615				
5	0.5ppm	1	below	3	1.0
	Notes sv110-0616				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0617				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0618				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0619				
9	10ppm	1	below	7	1.0
	Notes sv110-0620				
10	20ppm	1	below	8	1.0
	Notes sv110-0621				
11	10ppm LL ICV	1	below	9	1.0
	Notes sv110-0623				
12					
13	RB-8270	1	below	10	1.0
	Notes sv110-0612				
14					
15	2.5ppm	1	below	11	1.0
	Notes sv110-0602				
16	5ppm	1	below	12	1.0
	Notes sv110-0603				
17	10ppm	1	below	13	1.0
	Notes sv110-0604				
18	20ppm	1	below	14	1.0
	Notes sv110-0605				
19	30ppm	1	below	15	1.0
	Notes sv110-0606				
20	40ppm	1	below	16	1.0
	Notes sv110-0607				
21	50ppm	1	below	17	1.0
	Notes sv110-0608				
22	80ppm	1	below	18	1.0
	Notes sv110-0609				
23	100ppm	1	below	19	1.0
	Notes sv110-0610				
24	120ppm	1	below	20	1.0
	Notes sv110-0611				
25	50ppm ICV	1	below	21	1.0
	Notes sv110-0613				
26					

dam 9/15/14

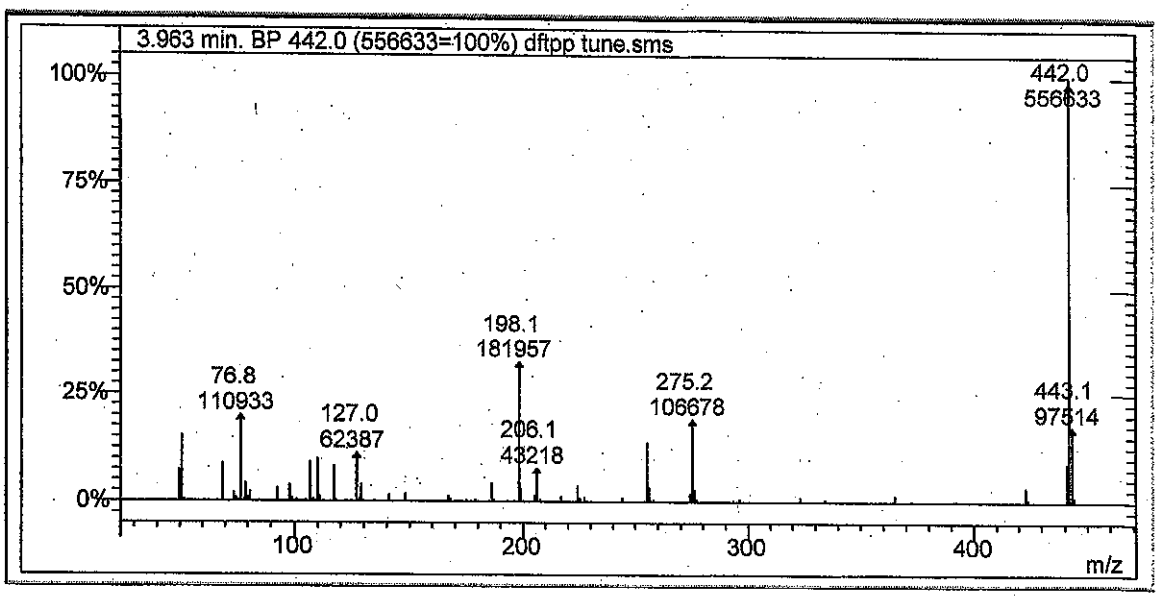
JC
9.15.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\091214.rcl.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 9/12/2014

Injection Time: 12:25

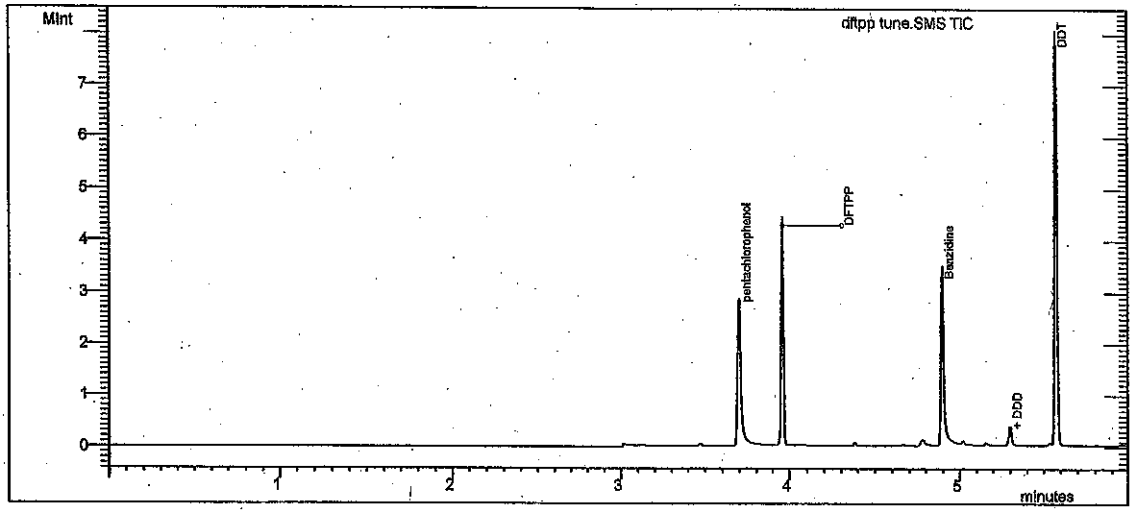
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	15.32	PASS
68	<2% of m/z 69	0.11	PASS
69	Present	8.76	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	11.21	PASS
197	<2% of m/z 198	0.26	PASS
198	Base peak	32.69	PASS
199	5-9% of m/z 198	8.94	PASS
275	10-60% of base peak	19.16	PASS
365	>1% of base peak	1.58	PASS
441	Present and <m/z 443	51.36	PASS
442	>50% of m/z 198	305.91	PASS
443	15-24% of m/z 442	17.52	PASS

dam 9/15/14

JC 9-15-14

Degradation Report

Acquisition Date:	9/12/2014 12:25:39 PM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0614	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.574	2.184E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.300	100818	5
DDE	5.085	23	6

% Degradation of DDT : = 4.413

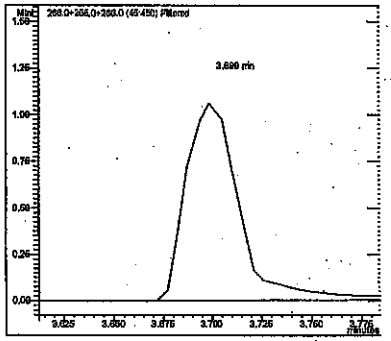
ddm 9/15/14

JC 9-15-14

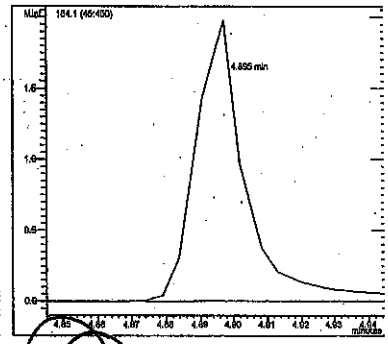
Tailing and Gaussian Factor Report

Acquisition Date: 9/12/2014 12:25:39 PM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0614

pentachlorophenol
RT = 3.699 Area = 2.048E6



Benzidine
RT = 4.895 Area = 2.167E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.699	1.670	0.763
Benzidine	4.895	1.100	0.789

JJ dam 9/15/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.699	2.048E6
3	Benzidine	4.895	2.167E6

JC 9.15.14

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

dam 9/15/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 9/12/2014

Instrument ID: ELMO Injection Time: 12:25

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	15.3		
68	<2% of m/z 69	0.0	(0.1)	69
69	Present	8.8		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	11.2		
197	<2% of m/z 198	0.1	(0.3)	198
198	Base peak	32.7		
199	5-9% of m/z 198	2.9	(8.9)	198
275	10-60% of base peak	19.2		
365	>1% of base peak	1.6		
441	Present and <m/z 443	9.0	(51.4)	443
442	>50% of m/z 198	100.0	(305.9)	198
443	15-24% of m/z 442	17.5		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\september 2014\091214 II crv\RB-LL PAH.SMS	9/12/2014 12:36
20.25ppm	0.25ppm	h:\elmo\data\2014\september 2014\091214 II crv\0.25ppm.SMS	9/12/2014 12:59
30.5ppm	0.5ppm	h:\elmo\data\2014\september 2014\091214 II crv\0.5ppm.SMS	9/12/2014 13:22
41.0ppm	1.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\1.0ppm.SMS	9/12/2014 13:46
52.0ppm	2.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\2.0ppm.SMS	9/12/2014 14:09
65.0ppm	5.0ppm	h:\elmo\data\2014\september 2014\091214 II crv\5.0ppm.SMS	9/12/2014 14:32
710ppm	10ppm	h:\elmo\data\2014\september 2014\091214 II crv\10ppm.SMS	9/12/2014 14:55
820ppm	20ppm	h:\elmo\data\2014\september 2014\091214 II crv\20ppm .SMS	9/12/2014 15:18
910ppm LL I	10ppm LL ICV	h:\elmo\data\2014\september 2014\091214 II crv\10ppm LL ICV.SMS	9/12/2014 15:41

9.15.14

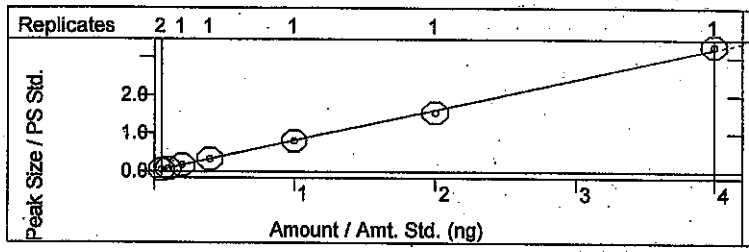
Calibration Curves Report

dlm 9/15/14

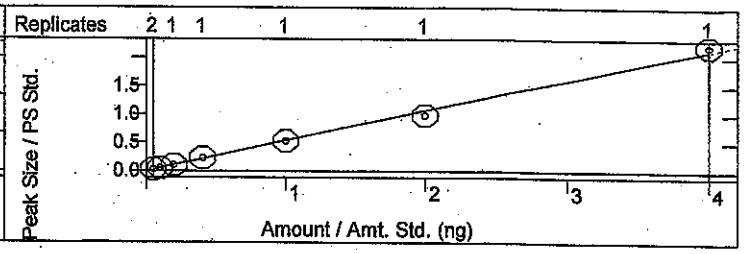
Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 9-15-14

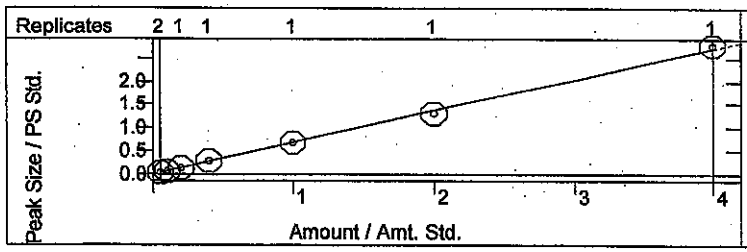
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.493%, Coeff. Det.(r2): 0.999027
y = +0.8079x -0.0015



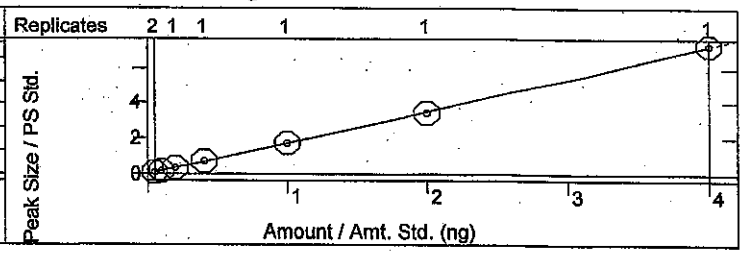
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.442%, Coeff. Det.(r2): 0.996773
y = +0.5336x -7.4405e-4



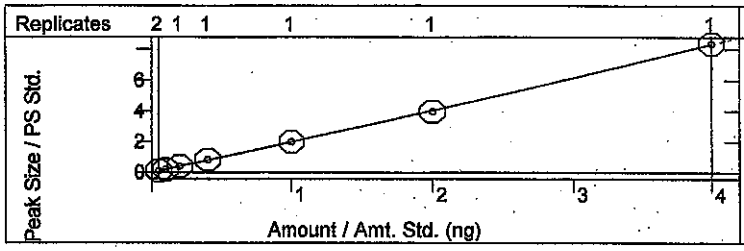
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.908%, Coeff. Det.(r2): 0.998706
y = +0.6808x +6.1613e-4



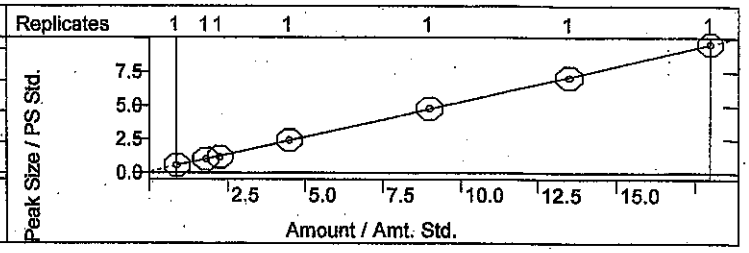
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.352%, Coeff. Det.(r2): 0.999843
y = +0.0434x2 +1.6509x +0.0122



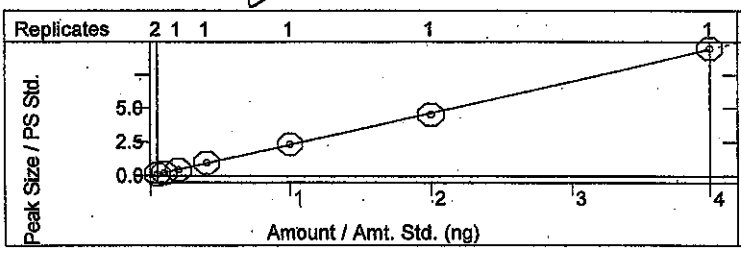
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.858%, Coeff. Det.(r2): 0.999892
y = +0.0347x2 +1.9447x +0.0140



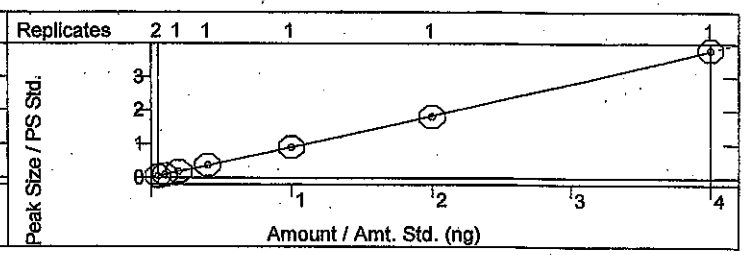
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.000%, Coeff. Det.(r2): 0.999845
y = +8.8897e-4x2 +0.5106x
+0.0957



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.461%, Coeff. Det.(r2): 0.999745
y = +0.0201x2 +2.2674x +0.0071



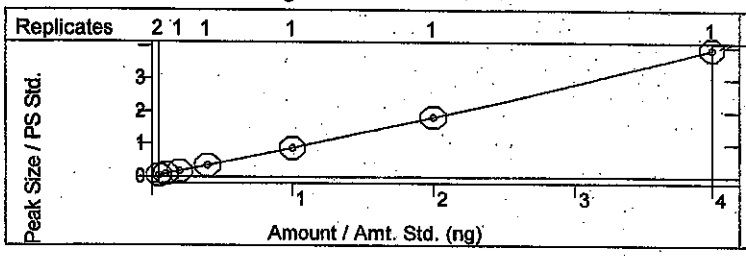
Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.391%, Coeff. Det.(r2): 0.999919
y = +0.0153x2 +0.8829x +0.0050



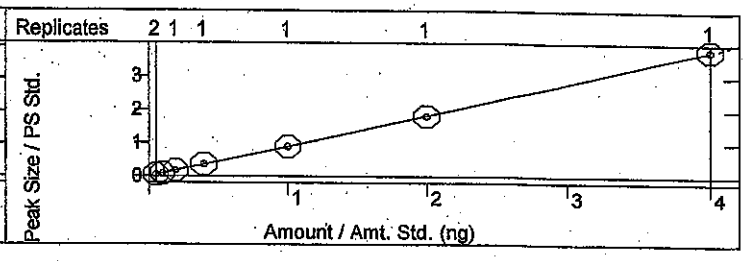
Calibration Curves Report

Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

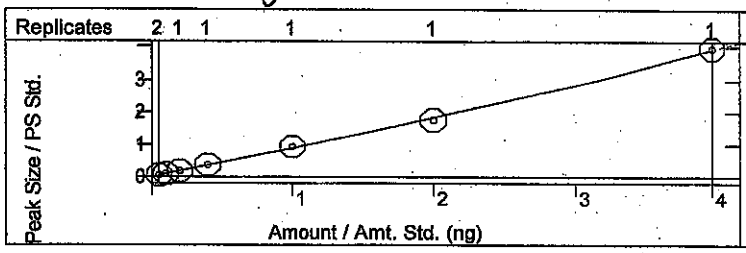
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.422%, Coeff. Det.(r2): 0.999990
y = +0.0339x2 +0.8451x +0.0023



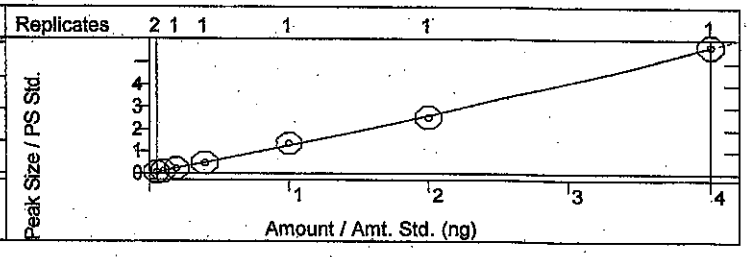
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.323%, Coeff. Det.(r2): 0.999982
y = +0.0221x2 +0.8645x +0.0028



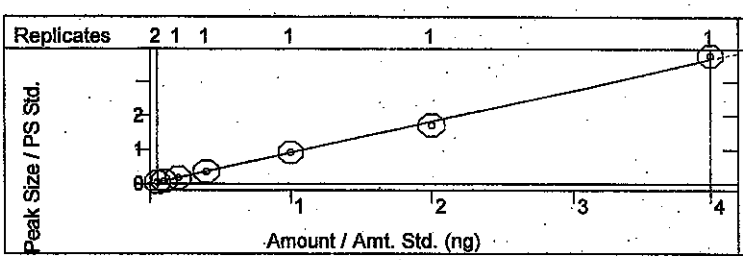
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.581%, Coeff. Det.(r2): 0.999253
y = +0.0297x2 +0.8601x +0.0083



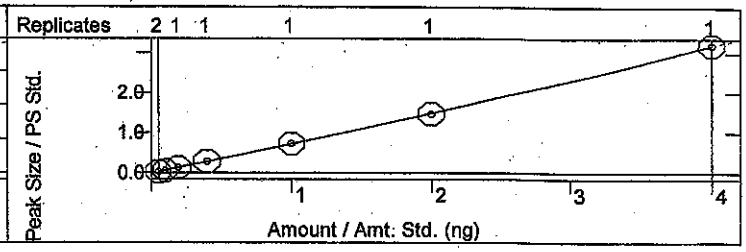
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.76%, Coeff. Det.(r2): 0.999310
y = +0.0526x2 +1.2146x -0.0111



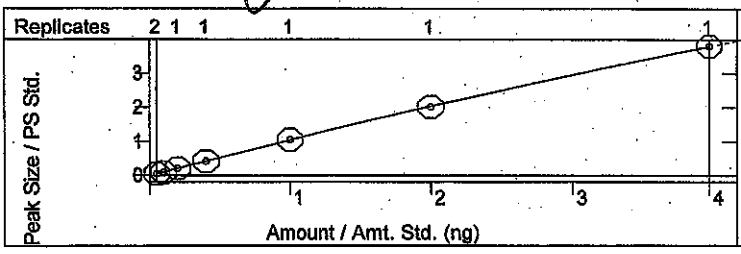
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.977%, Coeff. Det.(r2): 0.998292
y = +0.9147x -0.0034



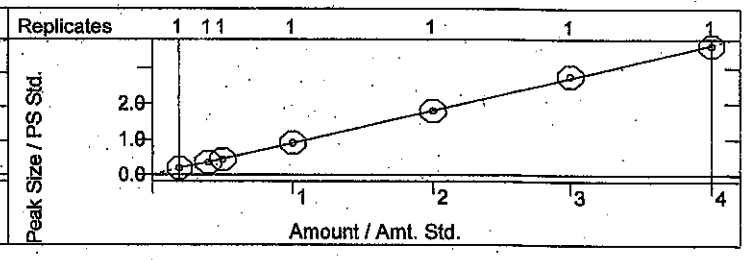
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.700%, Coeff. Det.(r2): 0.999928
y = +0.0252x2 +0.6970x -0.0054



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.854%, Coeff. Det.(r2): 0.999962
y = -0.0336x2 +1.0899x -0.0099



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.820%, Coeff. Det.(r2): 0.999688
y = +0.0073x2 +0.8848x +0.0044

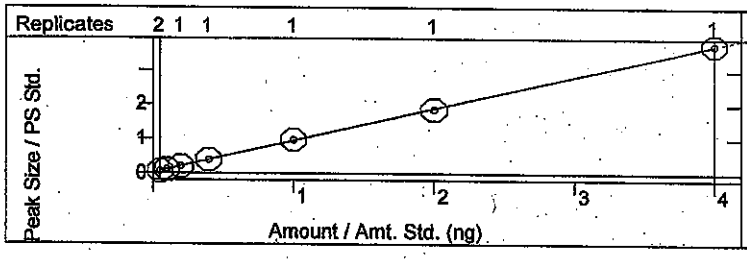


Calibration Curves Report

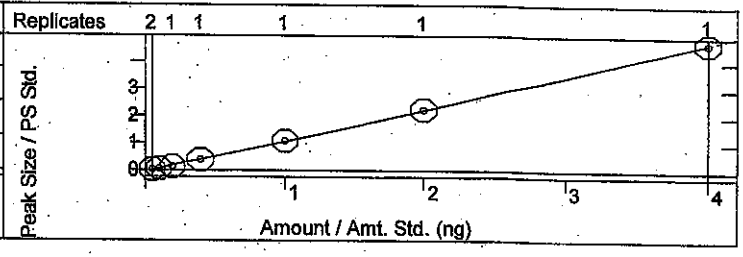
dam 9/15/14

Method:	c:\varianws\methods\8270 pah 091214.mth		
Recalc Method:	...pah 091214.mth	Last Calibration:	9/12/2014 9:53 PM
Sample List:	N/A	Cmpd. Table Updated:	9/12/2014 9:54 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

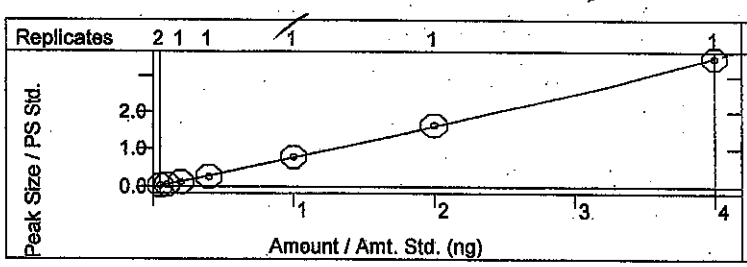
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.461%, Coeff. Det.(r2): 0.999841
y = +3.5585e-4x2 +0.9356x +0.0119



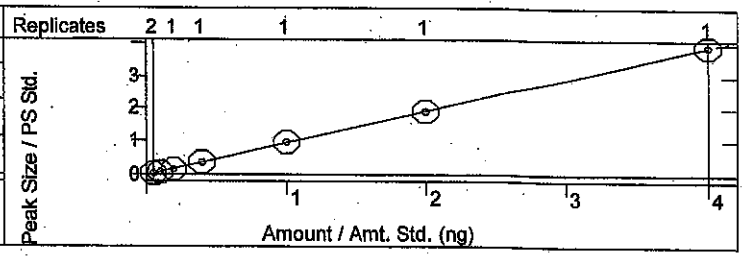
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.37%, Coeff. Det.(r2): 0.999787
y = +0.0388x2 +1.0473x -0.0405



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 21.49%, Coeff. Det.(r2): 0.999688
y = +0.0340x2 +0.7479x -0.0186



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.14%, Coeff. Det.(r2): 0.999909
y = +0.0092x2 +0.9449x -0.0194



JC 9-15-14

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 9/12/2014 9/12/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 15:18 15:18

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

dam 9/15/14

Index: 1	Level: 2	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 9/12/2014 15:18	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.813	0.752	0.828	0.808	0.796	0.774	0.826	0.9990	0.800	3.5	PASS	PASS
2-Methylnaphthalene	0.553	0.504	0.512	0.567	0.524	0.491	0.554	0.9968	0.529	5.4	PASS	PASS
1-Methylnaphthalene	0.739	0.646	0.677	0.708	0.674	0.648	0.698	0.9987	0.684	4.9	PASS	PASS
Acenaphthylene	1.833	1.805	1.693	1.775	1.723	1.710	1.834	0.9998	1.767	3.4	PASS	PASS
Acenaphthene	2.153	2.094	2.029	2.076	1.999	1.989	2.094	0.9999	2.062	2.9	PASS	PASS
n-hexadecane	0.630	0.576	0.522	0.544	0.534	0.526	0.532	0.9998	0.552	7.0	PASS	PASS
Fluorene	2.480	2.277	2.170	2.420	2.341	2.259	2.359	0.9997	2.330	4.5	PASS	PASS
Phenanthrene	0.963	0.921	0.919	0.935	0.905	0.904	0.948	0.9999	0.928	2.4	PASS	PASS
Anthracene	0.867	0.919	0.829	0.878	0.877	0.915	0.981	1.0000	0.895	5.4	PASS	PASS
Fluoranthene	0.933	0.885	0.865	0.899	0.893	0.905	0.955	1.0000	0.905	3.3	PASS	PASS
Pyrene	0.987	0.964	0.891	0.919	0.942	0.884	0.988	0.9993	0.939	4.6	PASS	PASS
Benz[a]anthracene	1.109	1.076	1.069	1.168	1.354	1.272	1.427	0.9993	1.211	11.8	PASS	PASS
Chrysene	0.927	0.842	0.886	0.897	0.917	0.860	0.940	0.9983	0.896	4.0	PASS	PASS

JC 9.15.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.623	0.613	0.654	0.714	0.727	0.736	0.798	0.9999	0.695	9.7	PASS	PASS
Benzo[k]fluoranthene	0.918	0.942	1.049	1.049	1.058	1.010	0.954	1.0000	0.997	5.9	PASS	PASS
Benzo(e)pyrene	0.945	0.880	0.870	0.902	0.898	0.923	0.907	0.9997	0.904	2.8	PASS	PASS
Benzo[a]pyrene	1.174	1.043	0.998	0.963	0.972	0.926	0.943	0.9998	1.003	8.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.477	0.581	0.650	0.950	1.079	1.117	1.188	0.9998	0.863	33.4	PASS	PASS
Dibenz[a,h]anthracene	0.510	0.535	0.589	0.648	0.785	0.824	0.874	0.9997	0.681	21.5	PASS	PASS
Benzo[g,h,i]perylene	0.618	0.756	0.756	0.910	0.958	0.947	0.977	0.9999	0.846	16.1	PASS	PASS
									Average %RSD	8.0		

dnm 9/15/14

JC 9.15.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\elmo\data\2014\september 2014\091214 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 9/12/2014 Time Analyzed: 14:55

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	148216	3.03	549598	4.36	256383	6.83	521955	9.11	546824	13.24	679765	15.50
UPPER LIMIT	296432	3.53	1.099E6	4.86	512766	7.33	1.044E6	9.61	1.094E6	13.74	1.360E6	16.00
LOWER LIMIT	74108	2.53	274799	3.86	128192	6.33	260978	8.61	273412	12.74	339883	15.00
EPA SAMPLE NO												
RB-LL PAH	130463	3.03	468169	4.36	207778	6.83	407684	9.11	397644	13.24	508869	15.50
0.25ppm	139684	3.03	493383	4.36	243608	6.82	531573	9.11	515381	13.24	648968	15.49
0.5ppm	153311	3.02	539811	4.36	236612	6.82	501426	9.11	483647	13.24	600405	15.49
1.0ppm	160966	3.03	548698	4.36	241617	6.82	443637	9.11	427573	13.24	525260	15.49
2.0ppm	141649	3.02	503324	4.36	240545	6.82	484101	9.11	483331	13.24	591803	15.49
5.0ppm	148545	3.03	543179	4.36	265734	6.82	561237	9.11	551219	13.24	726179	15.49
20ppm	130997	3.03	475025	4.36	230551	6.82	440598	9.11	436839	13.24	598307	15.49
10ppm LL I	157111	3.03	566900	4.37	251993	6.83	513806	9.11	539504	13.25	678435	15.50

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\september 2014\091214 ll crv\10ppm LL IC **Acquisition Date:** 9/12/2014 15:41

Comment: sv110-0623

SampleID: 10ppm LL ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\September 2014\091214 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 9/12/2014 15:18 **Last:** 9/12/2014 15:18

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.70	ng	10.00	97 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.51	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.81		10.00	98 %	80 - 120	PASS
6)	Acenaphthylene	10.50	ng	10.00	105 %	80 - 120	PASS
8)	Acenaphthene	10.09	ng	10.00	101 %	80 - 120	PASS
9)	n-hexadecane	45.38		45.00	101 %	80 - 120	PASS
10)	Fluorene	10.53	ng	10.00	105 %	80 - 120	PASS
12)	Phenanthrene	10.30	ng	10.00	103 %	80 - 120	PASS
13)	Anthracene	10.47	ng	10.00	105 %	80 - 120	PASS
14)	Fluoranthene	10.64	ng	10.00	106 %	80 - 120	PASS
15)	Pyrene	10.01	ng	10.00	100 %	80 - 120	PASS
16)	Benz[a]anthracene	10.44	ng	10.00	104 %	80 - 120	PASS
18)	Chrysene	9.96	ng	10.00	100 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	10.53	ng	10.00	105 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.77	ng	10.00	98 %	80 - 120	PASS
21)	Benzo(e)pyrene	9.77		10.00	98 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.64	ng	10.00	96 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	10.12	ng	10.00	101 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.31	ng	10.00	103 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	10.04	ng	10.00	100 %	80 - 120	PASS

* Indicates Internal Standard.

dam 9/15/14

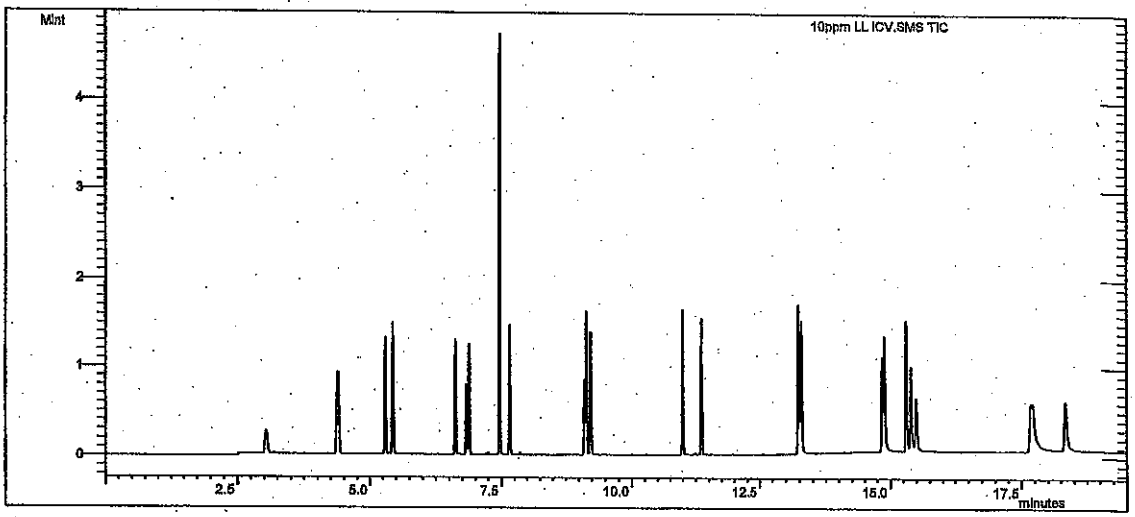
JC 1-15-14

8270C Report

Sample Name: 10ppm LL ICV **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 pah 091214.mth **Inj. Notes:** sv110-0623 **Acquisition Date:** 9/12/2014 3:41:58 PM

Calculation Date: 9/12/2014 10:00:18 PM



dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.034	206	Identified	157111	5.000
Naphthalene-d8 (I.S)	4.368	345	Identified	566900	5.000
Acenaphthene-d10 (I.S)	6.829	603	Identified	251993	5.000
Phenanthrene-d10	9.113	839	Identified	513806	5.000
Chrysene-d12 I.S	13.247	1265	Identified	539504	5.000
Perylene-d12 I.S	15.500	1499	Identified	678435	5.000
Naphthalene	4.395	348	Identified	887361	9.697
2-Methylnaphthalene	5.300	443	Identified	575139	9.514
1-Methylnaphthalene	5.442	457	Identified	757462	9.809
Acenaphthylene	6.619	581	Identified	924758	10.498
Acenaphthene	6.878	608	Identified	1.028E6	10.088
n-hexadecane	7.466	669	Identified	1.210E6	45.385
Fluorene	7.661	689	Identified	1.228E6	10.531
Phenanthrene	9.148	843	Identified	970025	10.297
Anthracene	9.228	851	Identified	986883	10.471
Fluoranthene	11.007	1036	Identified	998500	10.643
Pyrene	11.363	1073	Identified	997523	10.008
Benz[a]anthracene	13.231	1263	Identified	1.486E6	10.442
Chrysene	13.287	1269	Identified	981626	9.964
Benzo(b)fluoranthene	14.848	1432	Identified	1.068E6	10.530
Benzo[k]fluoranthene	14.890	1436	Identified	1.351E6	9.765
Benzo(e)pyrene	15.311	1479	Identified	1.195E6	9.775
Benzo[a]pyrene	15.400	1489	Identified	1.233E6	9.643
Indeno[1,2,3-cd]pyrene	17.681	1725	Identified	1.518E6	10.116

JC 9.15.14

dam 9/15/14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.735	1731	Identified	1.132E6	10.309
Benzo[g,h,i]perylene	18.343	1793	Identified	1.299E6	10.036

```
************************************************************
Revision Log
************************************************************

9/12/2014 4:01 PM: Processed as Analysis sample using method:
   'C:\VarianWS\Methods\8270 pah 091214.mth'
9/12/2014 10:00 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 pah 091214.mth'
```

✓ MA 7.3.14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1406D88**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001 **Collection Date:** 6/30/2014 10:29:00 AM
Client Sample ID: FFOR-CF-0001 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	10	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-002 **Collection Date:** 6/30/2014 10:36:00 AM
Client Sample ID: FFOR-CF-0002 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.2	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-003 **Collection Date:** 6/30/2014 10:46:00 AM
Client Sample ID: FFOR-CF-0003 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.4	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-004 **Collection Date:** 6/30/2014 10:55:00 AM
Client Sample ID: FFOR-CF-0004 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.8	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-005 **Collection Date:** 6/30/2014 11:43:00 AM
Client Sample ID: FFOR-CF-0005 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.9	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-006
Client Sample ID: FFOR-CF-0006
Collection Date: 6/30/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.9	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-007
Client Sample ID: FFOR-CF-0007
Collection Date: 6/30/2014 2:52:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.5	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Lab ID: 1406D88-008
Client Sample ID: FFOR-CF-0008
Collection Date: 6/30/2014 2:58:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL IIIDUE 07/03/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	5.9	1.0		wt%	1	R19627	7/1/2014 9:12:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/1/2014 3:48:15 P**
Prep End Date: **7/1/2014 4:07:26 P**

JA 7.3.14

Prep Factor Units: **mL / g**

Prep Batch ID: **14008** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

cg 7.2.14

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14008		Solid			5	0	0	5	1.000	7/1/2014	7/1/2014
1406D88-001A	FFOR-CF-0001	MeOH (Soil)			8.365	0	0	5	0.598	7/1/2014	7/1/2014
1406D88-001AMS		MeOH (Soil)			8.4	0	0	5	0.595	7/1/2014	7/1/2014
1406D88-001AMSD		MeOH (Soil)			8.4	0	0	5	0.595	7/1/2014	7/1/2014
1406D88-002A	FFOR-CF-0002	MeOH (Soil)			7.945	0	0	5	0.629	7/1/2014	7/1/2014
1406D88-003A	FFOR-CF-0003	MeOH (Soil)			8.065	0	0	5	0.620	7/1/2014	7/1/2014
1406D88-004A	FFOR-CF-0004	MeOH (Soil)			8.979	0	0	5	0.557	7/1/2014	7/1/2014
1406D88-005A	FFOR-CF-0005	MeOH (Soil)			8.116	0	0	5	0.616	7/1/2014	7/1/2014
1406D88-006A	FFOR-CF-0006	MeOH (Soil)			7.813	0	0	5	0.640	7/1/2014	7/1/2014
1406D88-007A	FFOR-CF-0007	MeOH (Soil)			8.063	0	0	5	0.620	7/1/2014	7/1/2014
1406D88-008A	FFOR-CF-0008	MeOH (Soil)			8.054	0	0	5	0.621	7/1/2014	7/1/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8027	8260 lcs	lms/msd	25936	Container-01 of 01	~~4.4~~ 4	µL

Soil Moisture/Correction Factor Benchsheet

Date extracted: 7-1-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/23/2014
Start time: 7-1-14 9:12am	Start Temp: 110C		Reviewed by: BA 7-3-14
End time: 7-2-14 9:45am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
MeOH Kits								#VALUE!
1406d88-001a	25.8	41.81	1.00	2.00	2.00	16.0100	0.0000	0.6246
1406d88-002a	25.8	40.86	1.00	2.00	2.00	15.0600	0.0000	0.6640
1406d88-003a	26.1	42.26	1.00	2.00	2.00	16.1600	0.0000	0.6188
1406d88-004a	26.1	41.06	1.00	2.00	2.00	14.9600	0.0000	0.6684
1406d88-005a	25.8	39.39	1.00	2.00	2.00	13.5900	0.0000	0.7358
1406d88-006a	25.8	40.87	1.00	2.00	2.00	15.0700	0.0000	0.6636
1406d88-007a	26.0	39.89	1.00	2.00	2.00	13.8900	0.0000	0.7199
1406d88-008a	26.0	39.68	1.00	2.00	2.00	13.6800	0.0000	0.7310
Low Level Soil								#VALUE!
1406d88-001a	31.9	40.30				8.3650		#VALUE!
1406d88-002a	31.9	39.86				7.9450		#VALUE!
1406d88-003a	31.9	39.96				8.0650		#VALUE!
1406d88-004a	31.8	40.74				8.9790		#VALUE!
1406d88-005a	31.8	39.91				8.1160		#VALUE!
1406d88-006a	31.8	39.65				7.8130		#VALUE!
1406d88-007a	31.9	39.95				8.0630		#VALUE!
1406d88-008a	32.0	40.09				8.0540		#VALUE!
Pmoist								#VALUE!
1406d88-001a			1.32	21.92	19.84		10.0971	#VALUE!
1406d88-002a			1.33	23.41	21.83		7.1558	#VALUE!
1406d88-003a			1.34	23.50	22.08		6.4079	#VALUE!
1406d88-004a			1.33	22.75	20.87		8.7768	#VALUE!
1406d88-005a			1.33	24.44	22.84		6.9234	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1406d88-001a $\frac{21.92 - 19.84}{21.92 - 1.32} \times 100 = 10.0971\%$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))** cg 7-2-14

HEAL ID #

1406d88-001a $\frac{10g}{16.01g} = 0.6246$

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7-1-14		Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg	Thermometer Exp Date: 7/23/2014
Start time: 7-1-14 9:12am	Start Temp: 110C	Reviewed by:
End time: 7-2-14 9:45am	End Temp: 110C	

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Pmoist								#VALUE!
1406d88-006a			1.31	20.56	19.24		6.8571	#VALUE!
1406d88-007a			1.33	22.08	20.52		7.5181	#VALUE!
1406d88-008a			1.33	23.52	22.20		5.9486	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1406d88-006a

$$\frac{20.56 - 19.24}{20.56 - 1.31} \times 100 = 6.8571\%$$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001 **Collection Date:** 06/30/14 10:29:00 AM
Client Sample ID: FFOR-CF-0001 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	16	9.9		mg/Kg-dry	1	13991	07/01/14 2:08:37 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dry	1	13991	07/01/14 2:08:37 PM
Surr: DNOP	80.2	57.9-140		%REC	1	13991	07/01/14 2:08:37 PM

Lab ID: 1406D88-002 **Collection Date:** 06/30/14 10:36:00 AM
Client Sample ID: FFOR-CF-0002 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	13991	07/02/14 9:11:32 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	13991	07/02/14 9:11:32 AM
Surr: DNOP	87.5	57.9-140		%REC	1	13991	07/02/14 9:11:32 AM

Lab ID: 1406D88-003 **Collection Date:** 06/30/14 10:46:00 AM
Client Sample ID: FFOR-CF-0003 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	13991	07/02/14 9:41:36 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	13991	07/02/14 9:41:36 AM
Surr: DNOP	82.0	57.9-140		%REC	1	13991	07/02/14 9:41:36 AM

Lab ID: 1406D88-004 **Collection Date:** 06/30/14 10:55:00 AM
Client Sample ID: FFOR-CF-0004 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	26	9.8		mg/Kg-dry	1	13991	07/01/14 3:10:21 PM
Motor Oil Range Organics (MRO)	120	49		mg/Kg-dry	1	13991	07/01/14 3:10:21 PM
Surr: DNOP	82.7	57.9-140		%REC	1	13991	07/01/14 3:10:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1406D88
Project: Kirtland AFB

Lab ID: 1406D88-005 **Collection Date:** 06/30/14 11:43:00 AM
Client Sample ID: FFOR-CF-0005 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dry	1	13991	07/01/14 4:42:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dry	1	13991	07/01/14 4:42:23 PM
Surr: DNOP	81.5	57.9-140		%REC	1	13991	07/01/14 4:42:23 PM

Lab ID: 1406D88-006 **Collection Date:** 06/30/14 11:51:00 AM
Client Sample ID: FFOR-CF-0006 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg-dry	1	13991	07/01/14 5:13:14 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dry	1	13991	07/01/14 5:13:14 PM
Surr: DNOP	82.6	57.9-140		%REC	1	13991	07/01/14 5:13:14 PM

Lab ID: 1406D88-007 **Collection Date:** 06/30/14 2:52:00 PM
Client Sample ID: FFOR-CF-0007 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	14	10		mg/Kg-dry	1	13991	07/01/14 5:43:58 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dry	1	13991	07/01/14 5:43:58 PM
Surr: DNOP	85.7	57.9-140		%REC	1	13991	07/01/14 5:43:58 PM

Lab ID: 1406D88-008 **Collection Date:** 06/30/14 2:58:00 PM
Client Sample ID: FFOR-CF-0008 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL IIIDUE 07/03/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	10		mg/Kg-dry	1	13991	07/01/14 6:14:43 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg-dry	1	13991	07/01/14 6:14:43 PM
Surr: DNOP	83.0	57.9-140		%REC	1	13991	07/01/14 6:14:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Batch ID: 13991 Prep Code: 8015_S_PREP Technician: Brenda Nuno

Initial Temp: °C Final Temp: °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	Factor	Prep Start	Prep End
MB-13991		Soil	BN 7-2-14		10	0	0	10	1.000	7/1/2014	BN 7-2-14
LCS-13991		Soil			10	0	0	10	1.000	7/1/2014	
1406D76-008A	MW-3R 50'	Soil			10 10.19	0	0	10	1.000	7/1/2014	
1406D76-008AMS		Soil			10 10.09	0	0	10	1.000	7/1/2014	
1406D76-008AMSD		Soil			10 10.04	0	0	10	1.000	7/1/2014	
1406D76-009A	MW-3R 55'	Soil			10 10.08	0	0	10	1.000	7/1/2014	
1406D79-001A	MW-24 0-2 ft	MeOH (Soil)			10 10.18	0	0	10	1.000	7/1/2014	
1406D79-002A	MW-24 35'	MeOH (Soil)			10 9.78	0	0	10	1.000	7/1/2014	
1406D79-003A	MW-24 55'	MeOH (Soil)			10 10.17	0	0	10	1.000	7/1/2014	
1406D88-001A	FFOR-CF-0001	MeOH (Soil)			10 10.07	0	0	10	1.000	7/1/2014	
1406D88-002A	FFOR-CF-0002	MeOH (Soil)			10 10.08	0	0	10	1.000	7/1/2014	
1406D88-003A	FFOR-CF-0003	MeOH (Soil)			10 10.00	0	0	10	1.000	7/1/2014	
1406D88-004A	FFOR-CF-0004	MeOH (Soil)			10 10.19	0	0	10	1.000	7/1/2014	
1406D88-005A	FFOR-CF-0005	MeOH (Soil)			10 10.07	0	0	10	1.000	7/1/2014	
1406D88-006A	FFOR-CF-0006	MeOH (Soil)			10 10.10	0	0	10	1.000	7/1/2014	
1406D88-007A	FFOR-CF-0007	MeOH (Soil)			10 10.04	0	0	10	1.000	7/1/2014	
1406D88-008A	FFOR-CF-0008	MeOH (Soil)			10 9.93	0	0	10	1.000	7/1/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand BN 7-2-14	14066	Container-01 of 01	0	mL
Chemical	4618	Sodium Sulfate	14782	Container-01 of 01	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14002	5,000 ppm Diesel, 500 ppm DNOP	LCS	25890	Container-01 of 01	100	µL
ST8015-14003	1,000 DNOP	SAMP	25891	Container-01 of 01	100	µL

Calibration Summary

Instrument: FID#2 Date: 06/10/14

Method: 8015D

Calibration Name: DRO FID #2 061014, met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☑	☐	☐	☑	
MRO	☑	☐	☐	☑	
DNOP (Surr)	N/A	N/A	☐	☑	

Additional Notes:

Analyst: Janice Easley

QA: John Caldwell

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

Sequence Print

JR 7/2/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1406D42-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D42-001A <D>.dat	1
6	Unknown	0	1	1406D42-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D42-002A <D>.dat	1
7	Unknown	0	1	1406D42-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D42-004A <D>.dat	1
8	Unknown	0	1	1406D42-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D42-006A <D>.dat	1
9	Unknown	0	1	MB-13991	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-13991 <D>.dat	1
10	Unknown	0	1	LCS-13991	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-13991 <D>.dat	1
11	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
12	Unknown	0	1	1406D88-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-001A <D>.dat	1
13	Unknown	0	1	1406D88-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A <D>.dat	1
14	Unknown	0	1	~~1406D88-002A~~	~~DRO FID #2 061114.met~~	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A <D>.dat	1
15	Unknown	0	1	~~1406D88-003A~~	~~DRO FID #2 061114.met~~	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-003A <D>.dat	1
16	Unknown	0	1	1406D88-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-004A <D>.dat	1
17	Unknown	0	1	1406D88-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-005A <D>.dat	1
18	Unknown	0	1	1406D88-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-006A <D>.dat	1

not run

JR 7/2/14

not run

JR 7.2.14

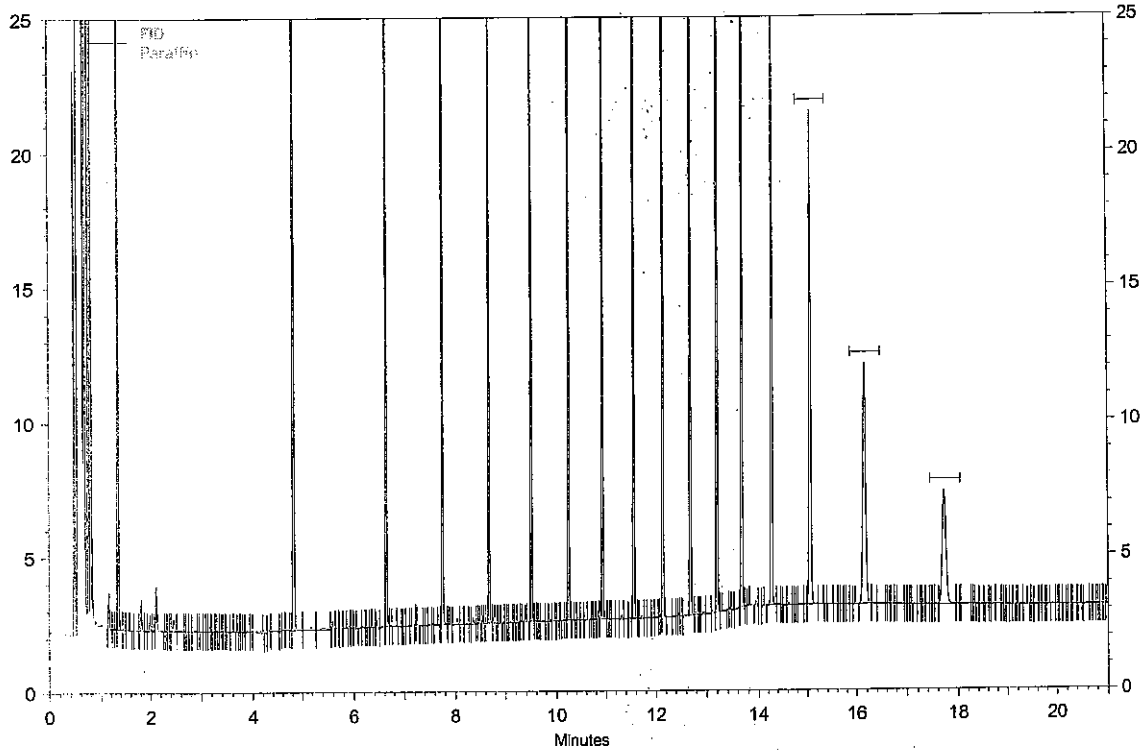
Sequence Print

7/2/14

19	Unknown	0	1	1406D88-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-005 A <D>.dat	1
20	Unknown	0	1	1406D88-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-006 A <D>.dat	1
21	Unknown	0	1	1406D88-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-007 A <D>.dat	1
22	Unknown	0	1	1406D88-008A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-008 A <D>.dat	1
23	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1473**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070114\Paraffin 07-01-14 8-03-58 AM.dat
Aquired: 7/1/2014 8:13:08 AM



FID Results

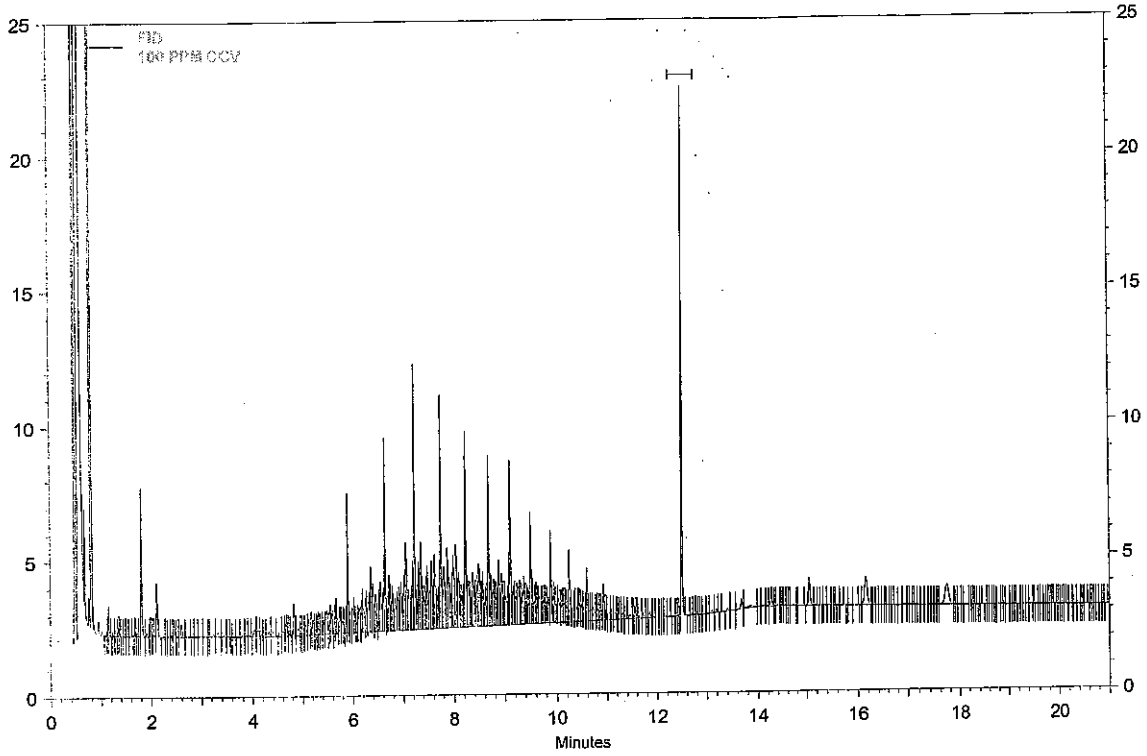
Name	Retention Time	Area	ug/ml
C08	1.35	56232	0.000
C10	4.83	67472	0.000
C12	6.64	65726	0.000
C14	7.75	65140	0.000
C16	8.67	65491	0.000
C18	9.50	65434	0.000
C20	10.24	66331	0.000
C22	10.92	65397	0.000
C24	11.55	64471	0.000
C26	12.14	66334	0.000
C28	12.68	67788	0.000
C30	13.19	67804	0.000
C32	13.67	65877	0.000
C34	14.27	57813	0.000
C36	15.06	45033	0.000
C38	16.16	32132	0.000
C40	17.72	22536	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-01-14 8-34-31 AM.dat
Aquired: 7/1/2014 8:43:35 AM



FID Results

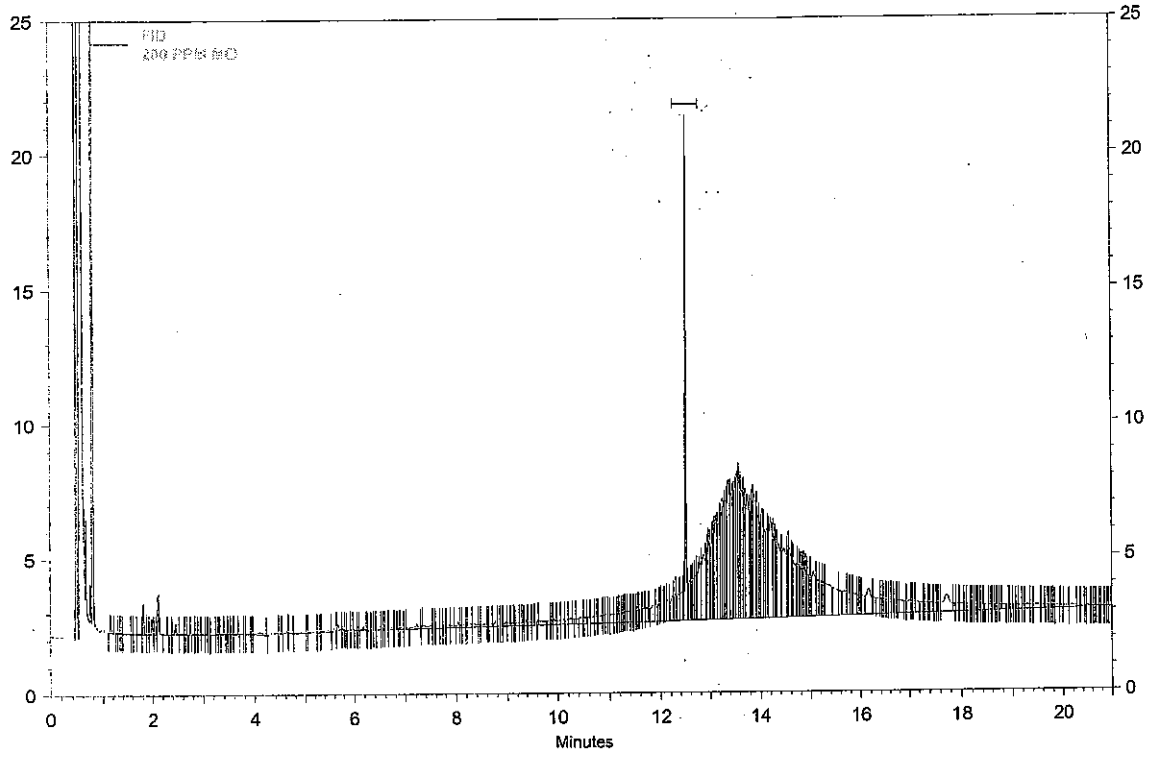
Name	Retention Time	Area	ug/ml
DNOP	12.49	22063	8.428
DRO		353639	112.866
MRO		16101	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-01-14 9-04-47 AM.dat
Aquired: 7/1/2014 9:13:35 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	24943	9.547
DRO		59509	15.523
MRO		461618	174.024

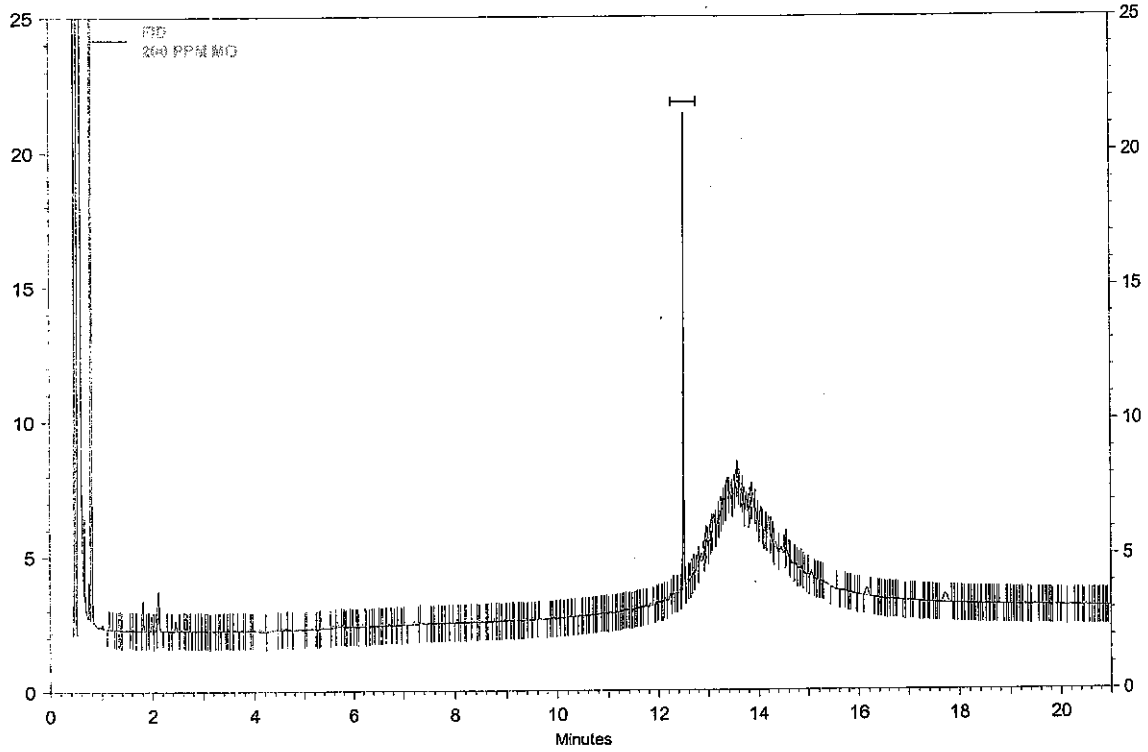
Analyst BV

Reviewed By

9.547
-7.510
2.037
+174.024
176.061 / 200 x100 = 88.03%

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-01-14 9-04-47 AM.dat
Aquired: 7/1/2014 9:13:35 AM



FID Results

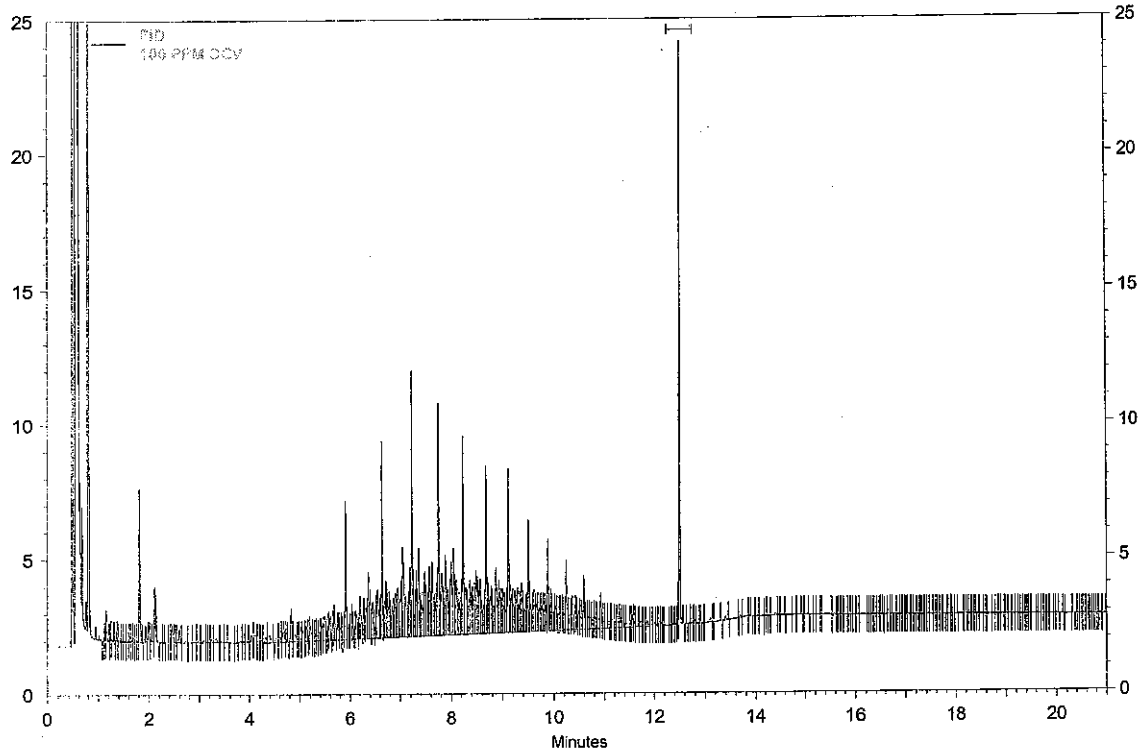
Name	Retention Time	Area	ug/ml
DNOP	12.49	19700	7.510
DRO		7596	0.000
MRO		23071	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070114\100 PPM CCV 07-01-14 1-36-44 PM.dat
Aquired: 7/1/2014 1:37:59 PM



FID Results

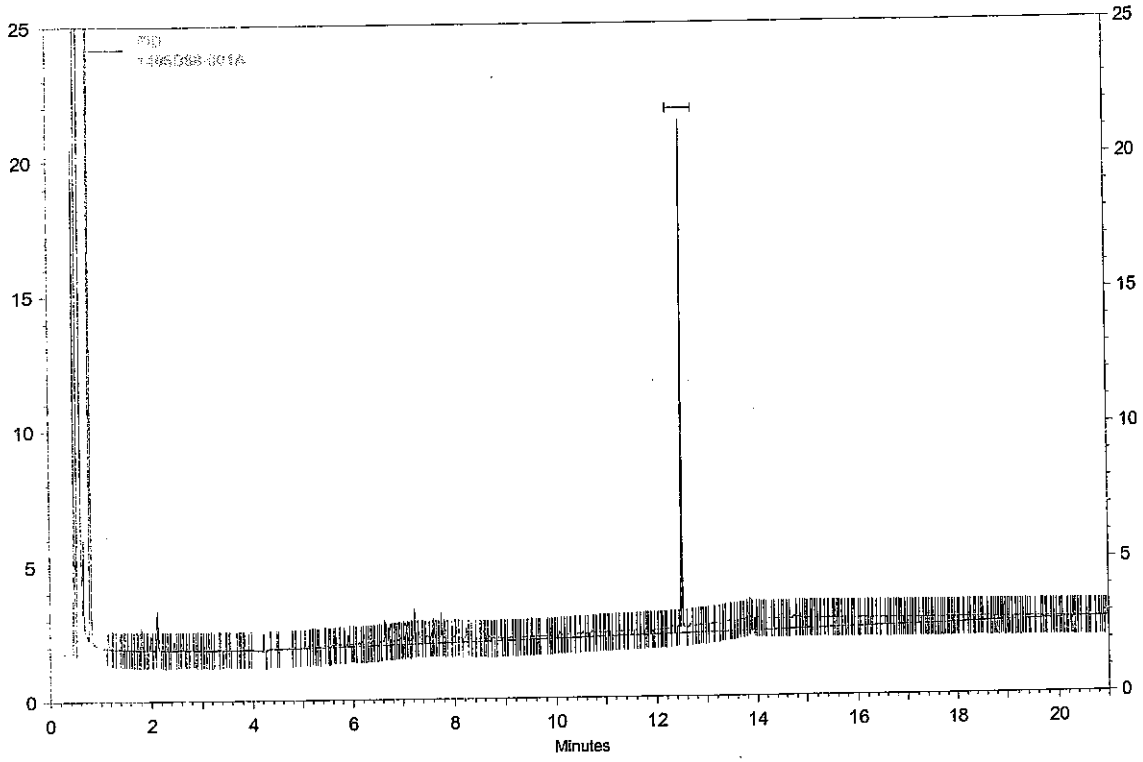
Name	Retention Time	Area	ug/ml
DNOP	12.49	24240	9.274
DRO		355789	113.576
MRO		3993	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1406D88-001A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-001A 07-01-14 1-59-11 PM.dat
Aquired: 7/1/2014 2:08:37 PM



FID Results

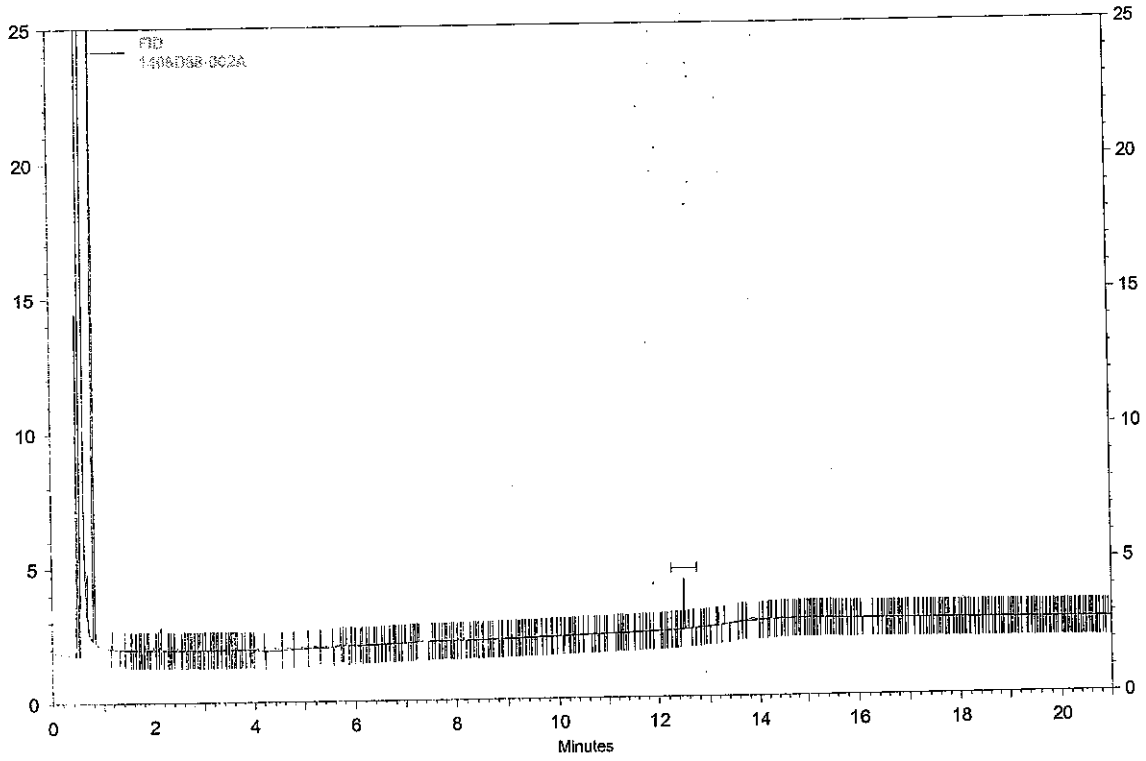
Name	Retention Time	Area	ug/ml
DNOP	12.49	22906	8.756
DRO		59812	15.623
MRO		99121	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **12** User: **System**
Sample ID: **1406D88-002A** Data Descritpion: **SOIL X 10**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A 07-01-14 2-30-00 PM.dat
Aquired: 7/1/2014 2:39:26 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	2184	0.685
DRO		4671	0.000
MRO		3110	0.000

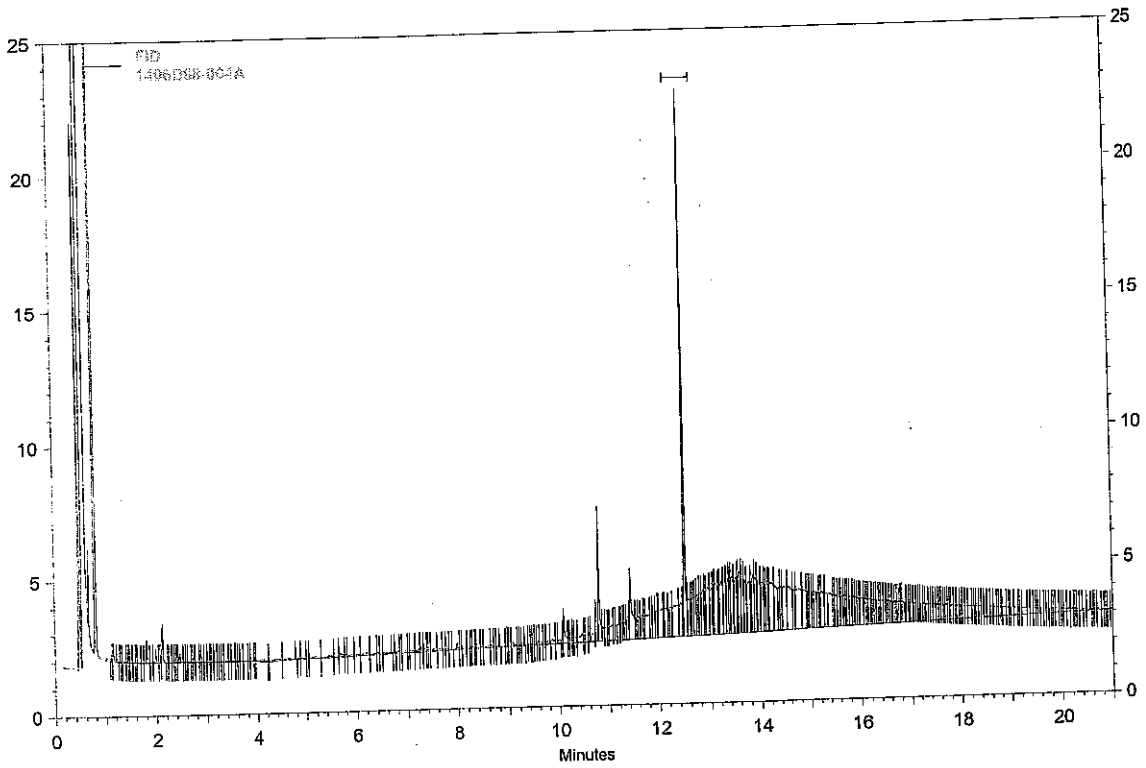
Analyst BN

Reviewed By

DNOP not recovered due to dilution

Instument: **FID 2 (Offline)** Vial #: **14** User: **System**
Sample ID: **1406D88-004A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-004A 07-01-14 3-04-33 PM.dat
Aquired: 7/1/2014 3:10:21 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	27234	10.436
DRO		93780	26.879
MRO		353109	116.806

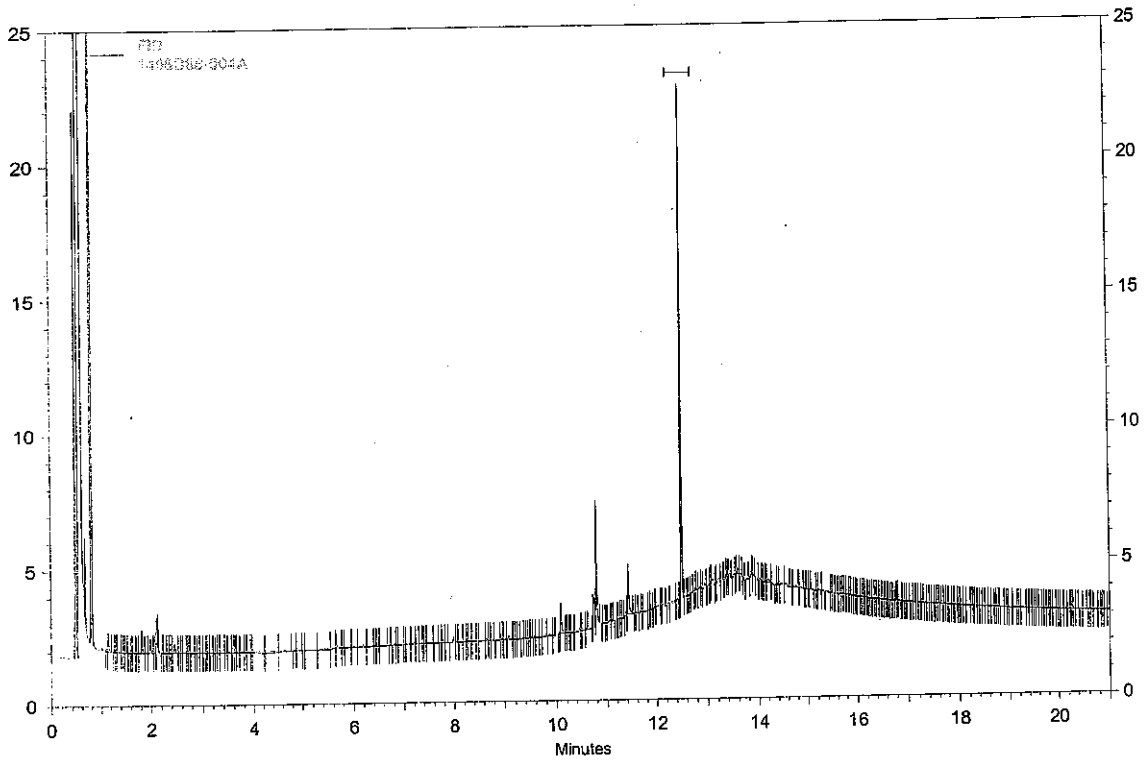
Analyst _____

Reviewed By _____

10.436
-8.271
2.165
+116.806
118.971

Instument: **FID 2 (Offline)** Vial #: **14** User: **System**
Sample ID: **1406D88-004A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-004A 07-01-14 3-04-33 PM.dat
Aquired: 7/1/2014 3:10:21 PM



FID Results

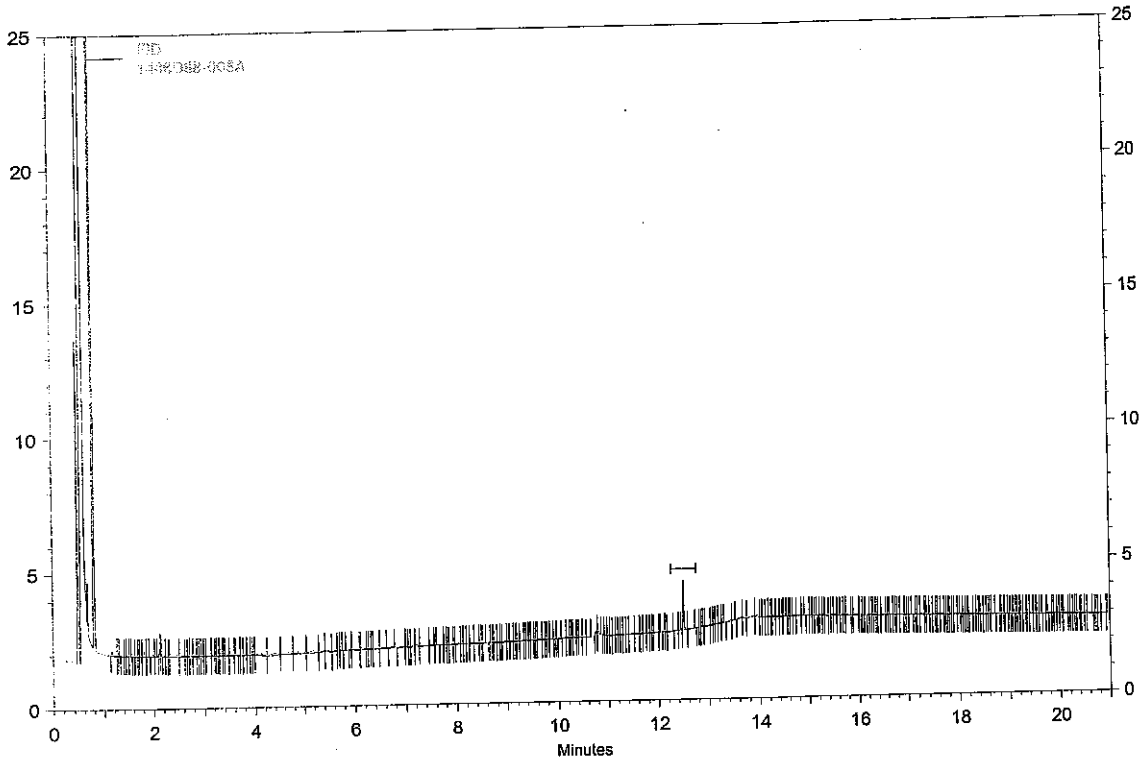
Name	Retention Time	Area	ug/ml
DNOP	12.49	21658	8.271
DRO		17140	1.478
MRO		9003	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1406D88-005A** Data Descritpion: **SOIL X 10**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-005A 07-01-14 3-31-44 PM.dat
Aquired: 7/1/2014 3:41:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	2106	0.654
DRO		5372	0.000
MRO		3466	0.000

Analyst _____

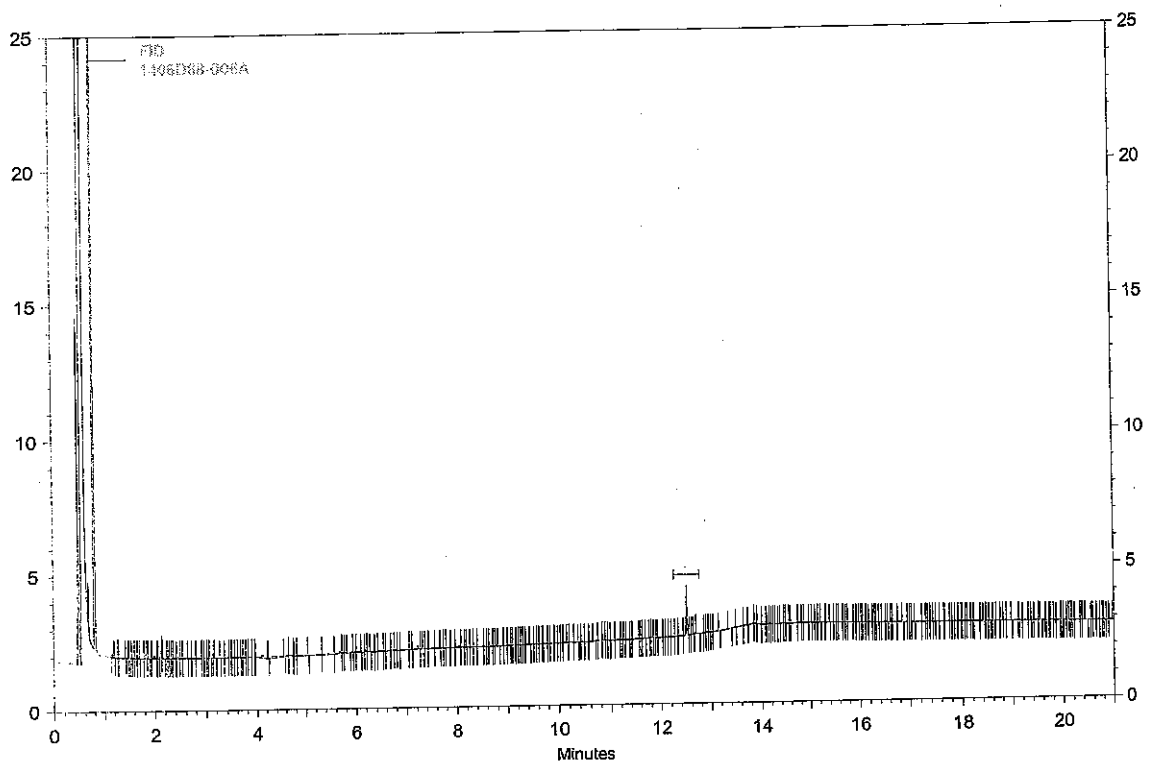
Reviewed By _____

RRX1

DNOP not recovered due to dilution

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **1406D88-006A** Data Descritpion: **SOIL X 10**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-006A 07-01-14 4-02-22 PM.dat
Aquired: 7/1/2014 4:11:48 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	2099	0.652
DRO		5123	0.000
MRO		3077	0.000

Analyst _____

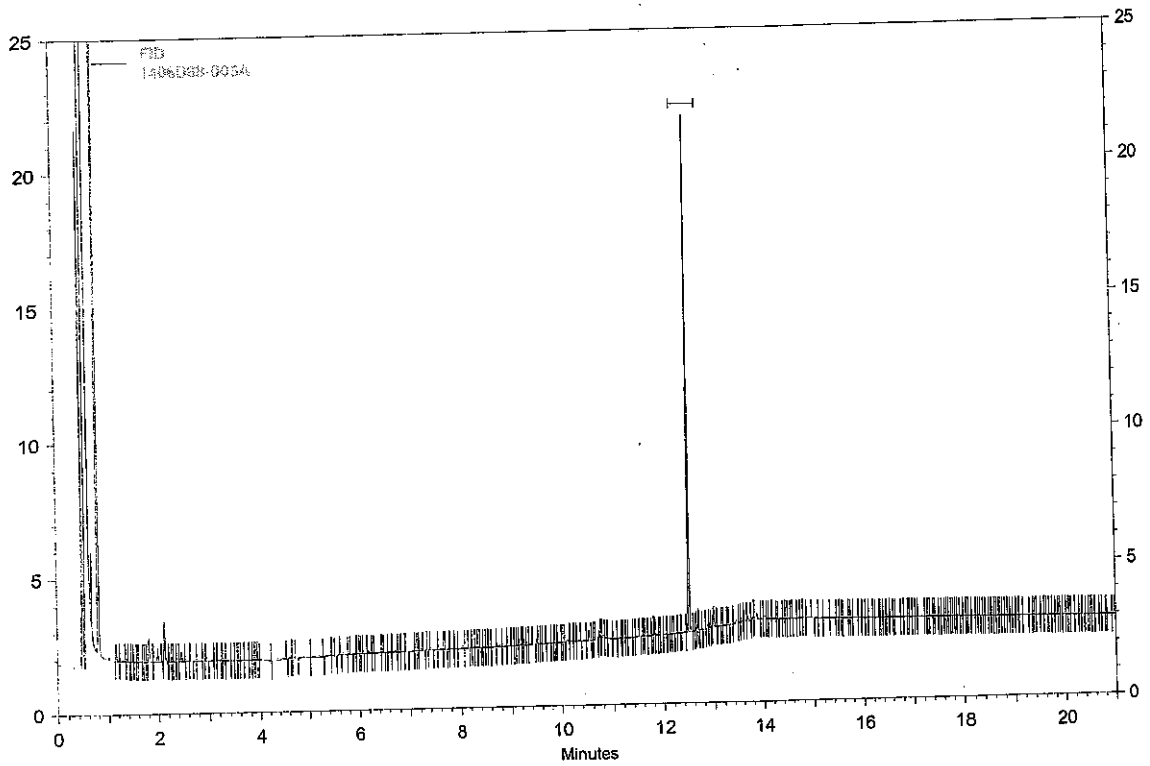
Reviewed By _____

PR x 1

DNOP not recovered due to dilution

Instument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1406D88-005A** Data Descritpion: **SOIL RR X 1**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-005A 07-01-14 4-34-20 PM.dat
Aquired: 7/1/2014 4:42:23 PM



FID Results

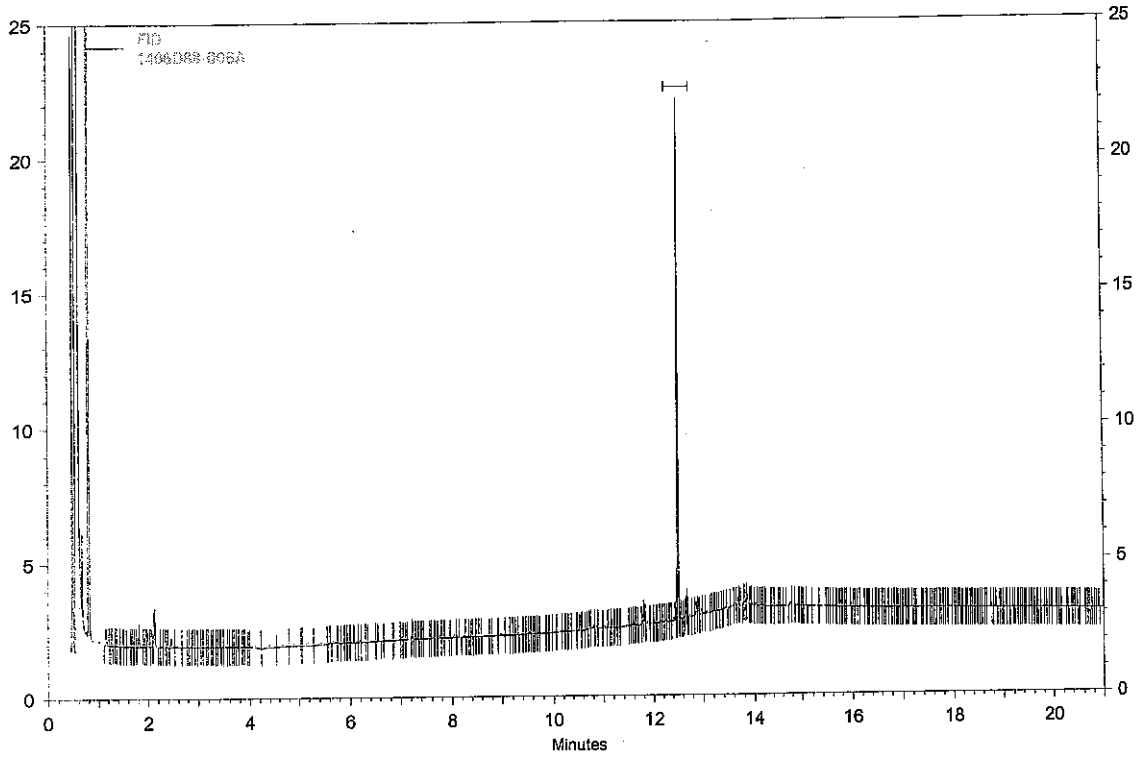
Name	Retention Time	Area	ug/ml
DNOP	12.49	21338	8.146
DRO		6811	0.000
MRO		5713	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **1406D88-006A** Data Descritpion: **SOIL RR X 1**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-006A 07-01-14 5-03-34 PM.dat
Aquired: 7/1/2014 5:13:14 PM



FID Results

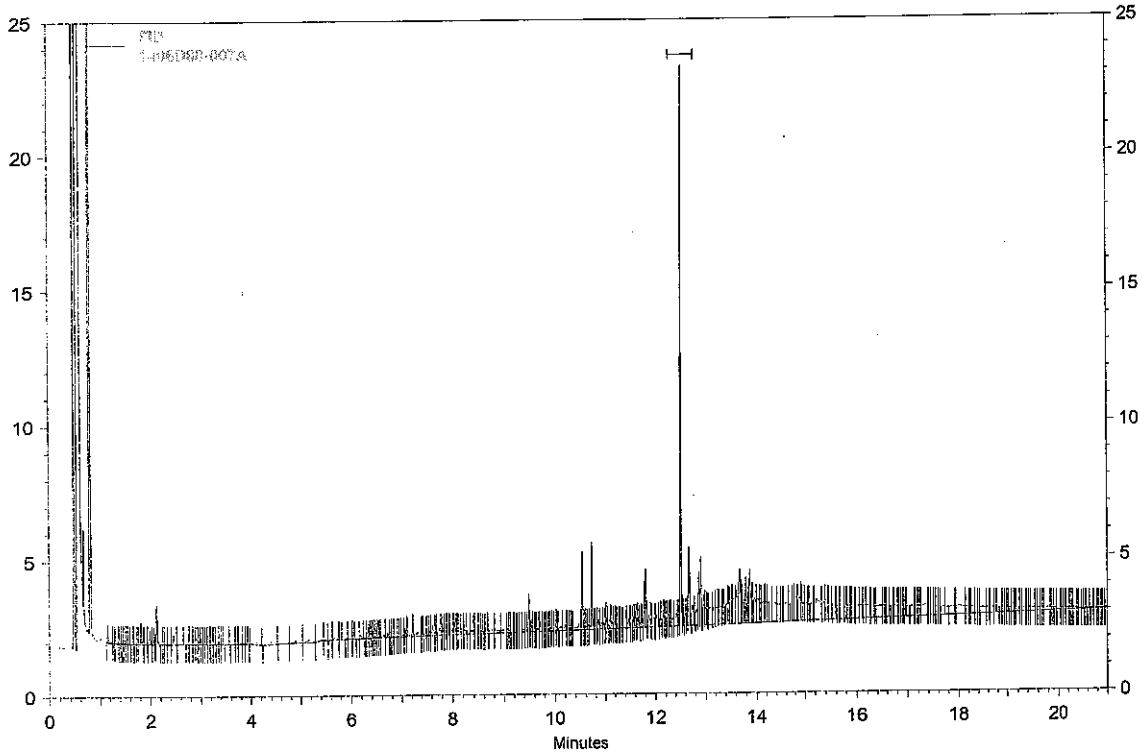
Name	Retention Time	Area	ug/ml
DNOP	12.49	21637	8.263
DRO		10250	0.000
MRO		7308	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **17** User: **System**
Sample ID: **1406D88-007A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-007A 07-01-14 5-34-37 PM.dat
Aquired: 7/1/2014 5:43:58 PM



FID Results

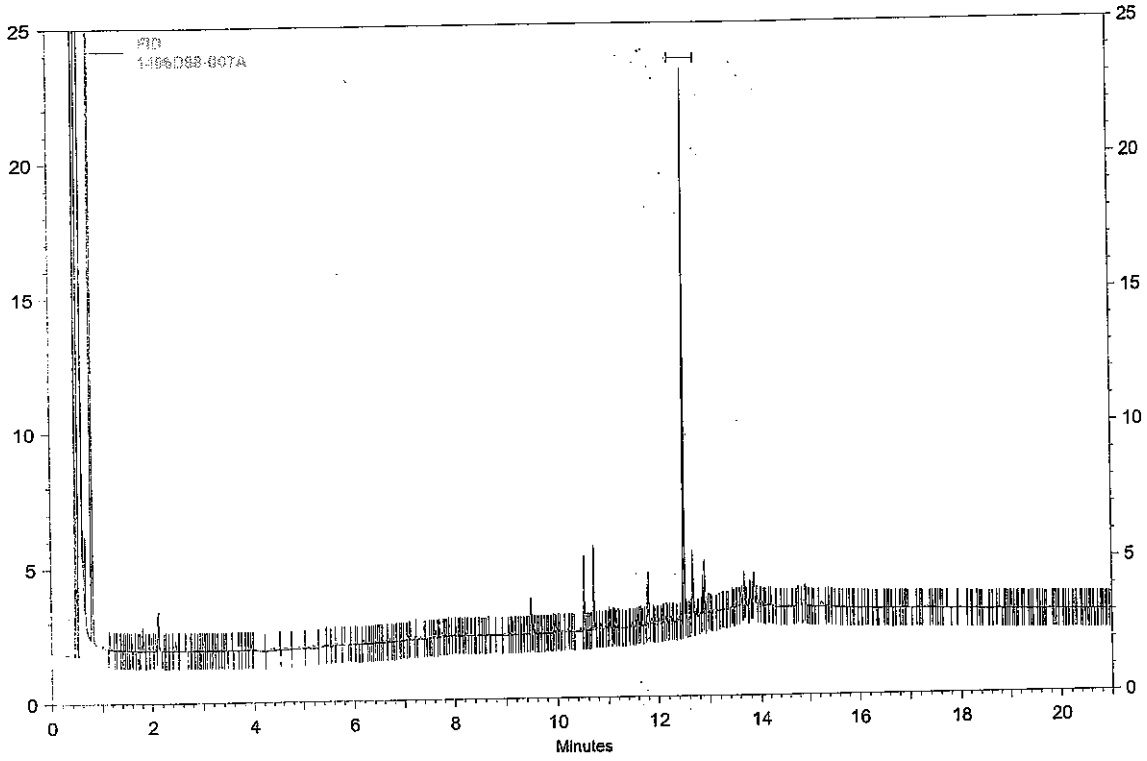
Name	Retention Time	Area	ug/ml
DNOP	12.49	23843	9.120
DRO		53806	13.632
MRO		169185	19.822

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **17** User: **System**
Sample ID: **1406D88-007A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\June\070114\1406D88-007A 07-01-14 5-34-37 PM.dat
Aquired: 7/1/2014 5:43:58 PM



FID Results

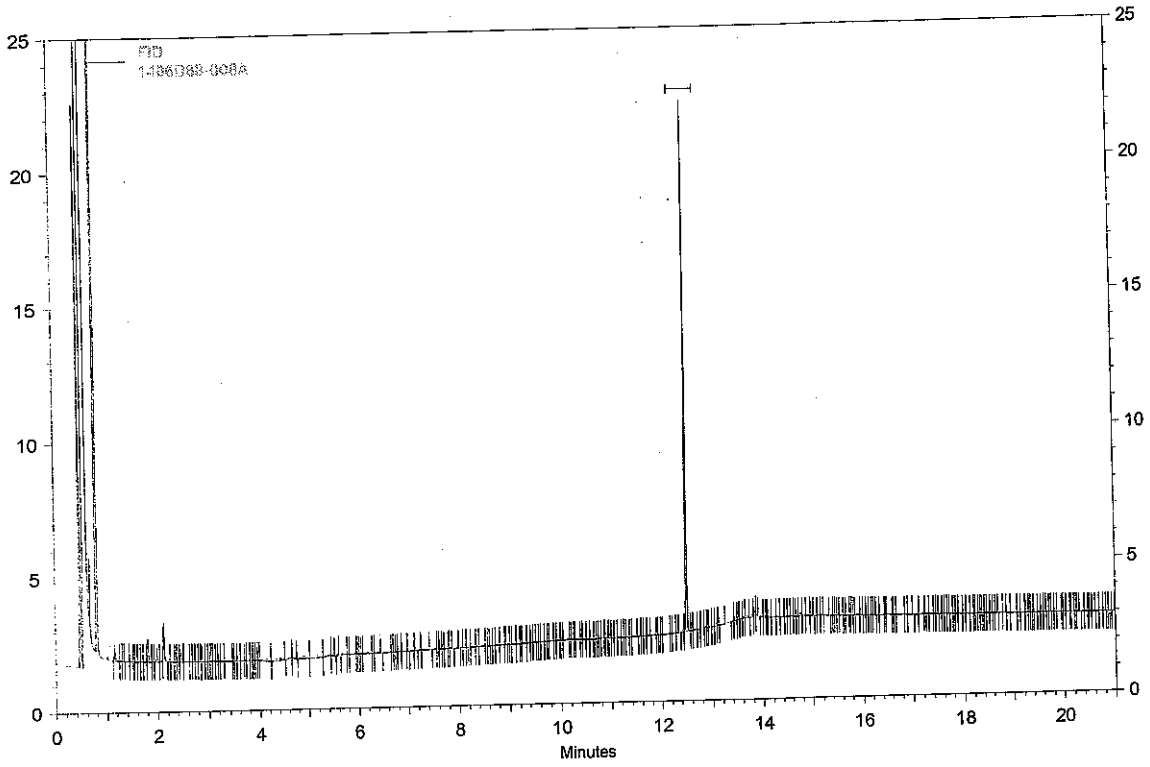
Name	Retention Time	Area	ug/ml
DNOP	12.49	22415	8.565
DRO		21883	3.051
MRO		16843	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **18** User: **System**
Sample ID: **1406D88-008A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-008A 07-01-14 6-05-06 PM.dat
Aquired: 7/1/2014 6:14:43 PM



FID Results

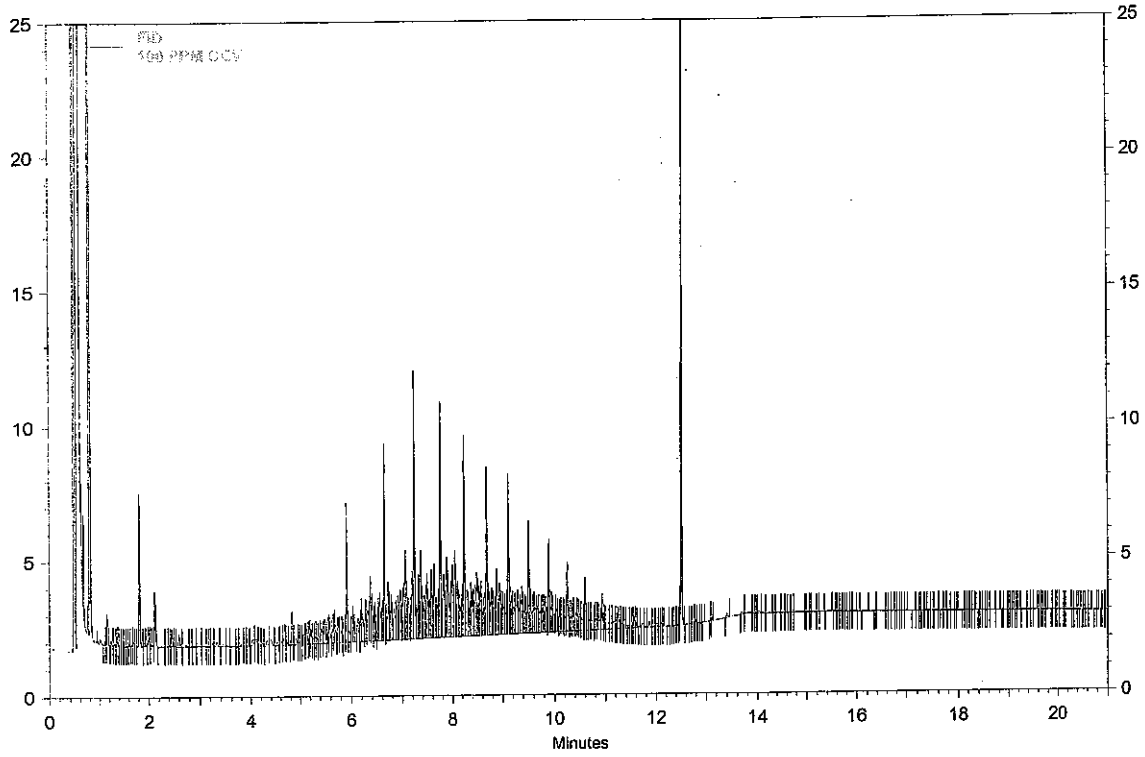
Name	Retention Time	Area	ug/ml
DNOP	12.49	21739	8.302
DRO		5575	0.000
MRO		4356	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-01-14 6-35-54 PM.dat
Aquired: 7/1/2014 6:45:33 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	25695	9.839
DRO		343673	109.572
MRO		3457	0.000

Analyst _____

Reviewed By _____

Sequence Print

JR 7/3/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1406D88-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A <D>.dat	1
6	Unknown	0	1	1406D88-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-003A <D>.dat	1
7	Unknown	0	1	MB-14014	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14014 <D>.dat	1
8	Unknown	0	1	LCS-14014	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14014 <D>.dat	1
9	Unknown	0	1	1407068-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407068-001A <D>.dat	1
10	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
11	Unknown	0	1	1407066-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-001A <D>.dat	1
12	Unknown	0	1	1407066-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A <D>.dat	1
13	Unknown	0	1	1407066-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A <D>.dat	1
14	Unknown	0	1	1407066-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-003A <D>.dat	1
15	Unknown	0	1	1407066-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-004A <D>.dat	1
16	Unknown	0	1	1407066-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-005A <D>.dat	1
17	Unknown	0	1	1407066-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-006A <D>.dat	1
18	Unknown	0	1	1407066-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-007A <D>.dat	1

JL 7.3.14

19	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
20	Unknown	0	1	MB-13990	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-13990 <D>.dat	1
21	Unknown	0	1	LCS-13990	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-13990 <D>.dat	1
22	Unknown	0	1	1406D72-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-001A <D>.dat	1
23	Unknown	0	1	1406D72-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-002A <D>.dat	1
24	Unknown	0	1	1406D72-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-003A <D>.dat	1
25	Unknown	0	1	1406D72-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-004A <D>.dat	1
26	Unknown	0	1	1406D72-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-005A <D>.dat	1
27	Unknown	0	1	1406D72-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-006A <D>.dat	1
28	Unknown	0	1	1406D72-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-007A <D>.dat	1
29	Unknown	0	1	1406D72-008A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-008A <D>.dat	1
30	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
31	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
32	Unknown	0	1	MB-14040	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14040 <D>.dat	1
33	Unknown	0	1	LCS-14040	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14040 <D>.dat	1
34	Unknown	0	1	1407096-001C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001C <D>.dat	1
35	Unknown	0	1	1407096-001CMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001CMS <D>.dat	1
36	Unknown	0	1	1407096-001CMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001CMSD <D>.dat	1
37	Unknown	0	1	1407096-002C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-002C <D>.dat	1

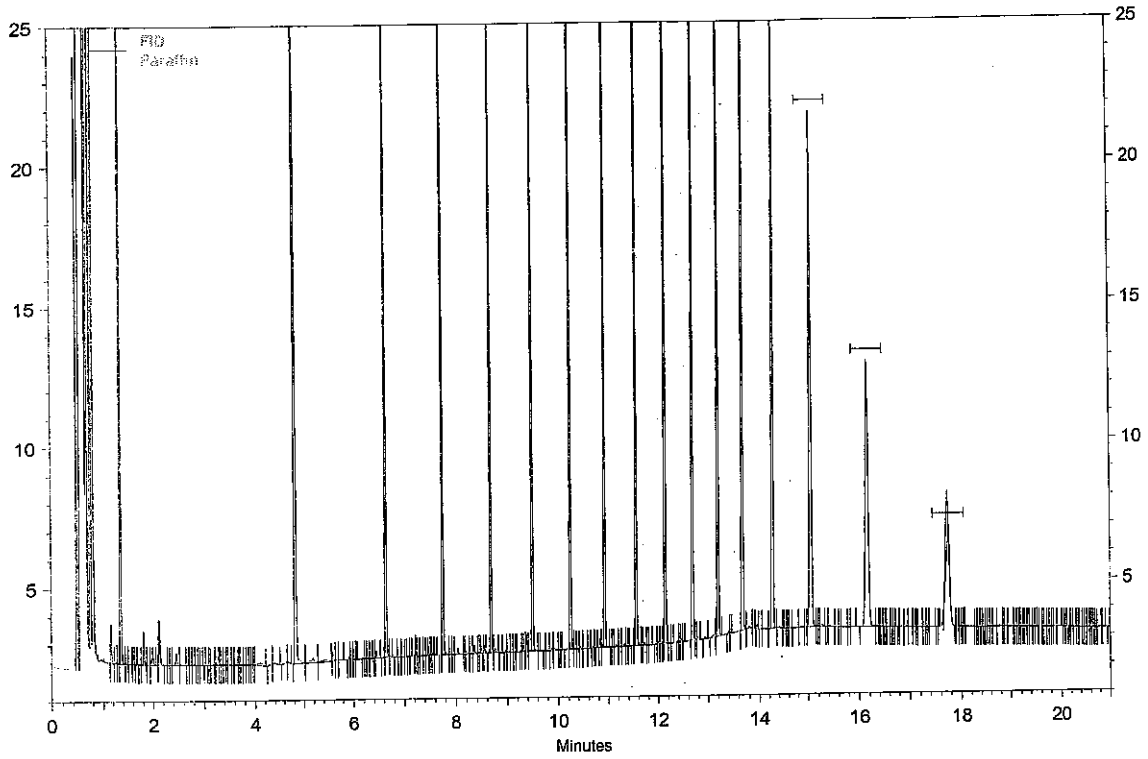
JR 7/3/14

Sequence Print

38	Unknown	0	1	1407096-003C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-003C <D>.dat	1
39	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Instument: **FID 2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1473**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 07-02-14 7-28-35 AM.dat
Aquired: 7/2/2014 7:37:41 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.35	57335	0.000
C10	4.83	69935	0.000
C12	6.64	67488	0.000
C14	7.75	66759	0.000
C16	8.68	66932	0.000
C18	9.50	66908	0.000
C20	10.24	67543	0.000
C22	10.92	66563	0.000
C24	11.55	65477	0.000
C26	12.14	67172	0.000
C28	12.68	67759	0.000
C30	13.19	67970	0.000
C32	13.67	65727	0.000
C34	14.26	57577	0.000
C36	15.05	45455	0.000
C38	16.15	34174	0.000
C40	17.74	34	0.000

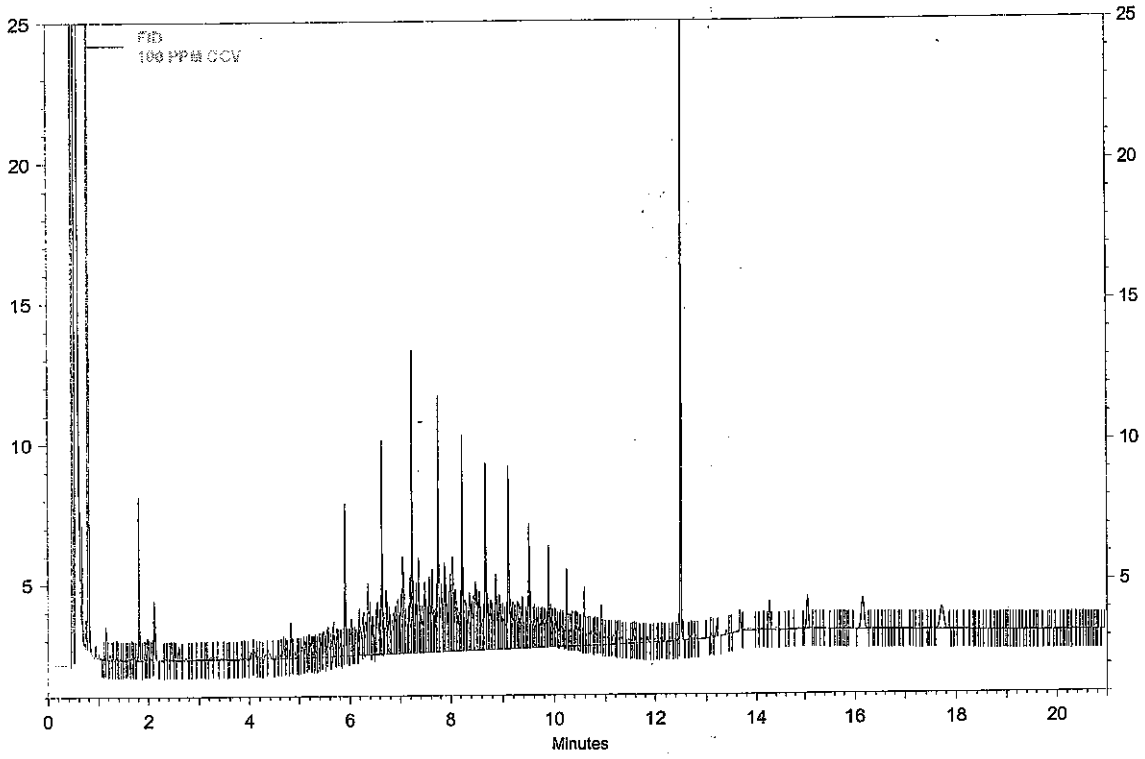
OK

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 7-58-53 AM.dat
Aquired: 7/2/2014 8:08:04 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	26826	10.278
DRO		373426	119.405
MRO		19069	0.000

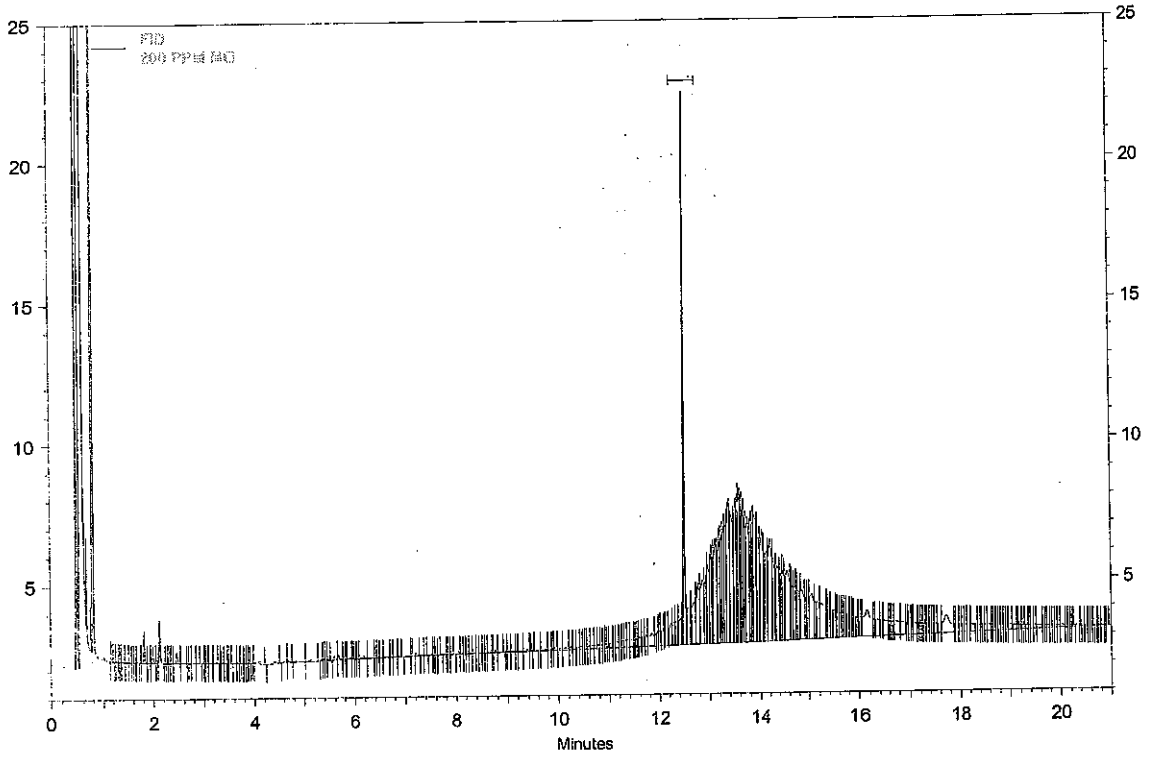
Analyst _____

Reviewed By _____

use new CCV

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-02-14 8-29-26 AM.dat
Aquired: 7/2/2014 8:38:20 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	25950	9.938
DRO		31694	6.303
MRO		470809	178.870

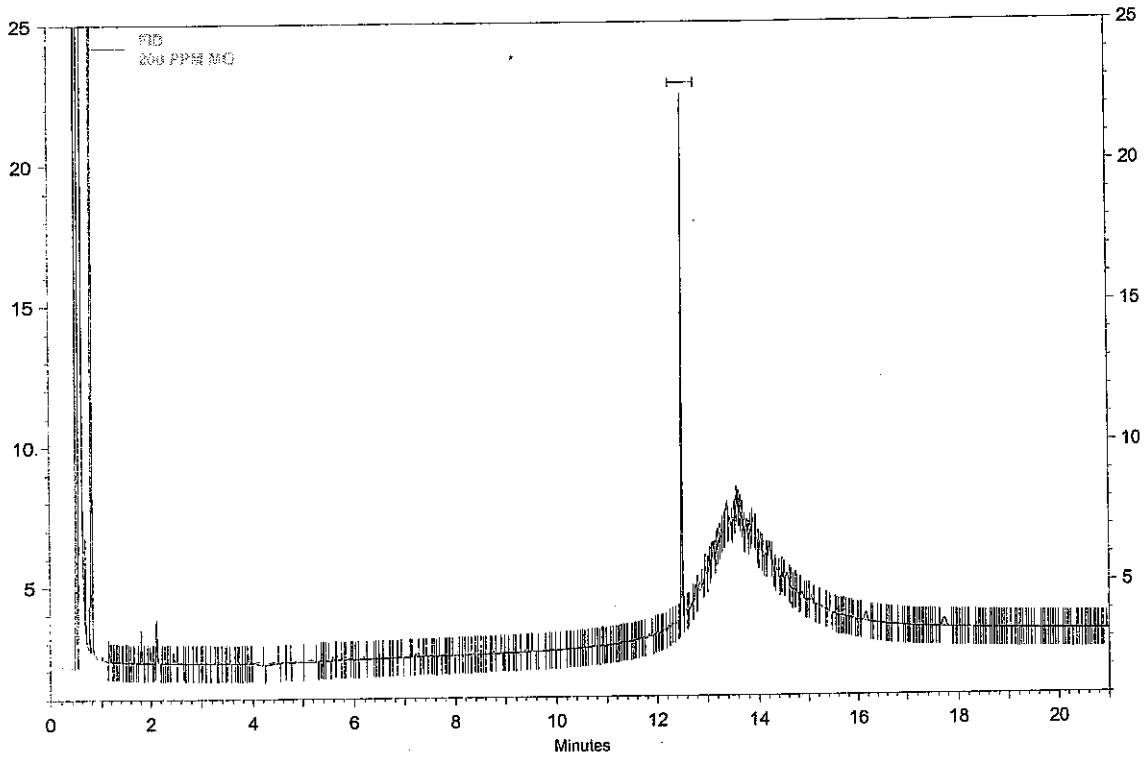
Analyst _____

Reviewed By _____

9.938
-8.165
1.773
+178.870
180.643
2000
x100 = 90.3215%

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-02-14 8-29-26 AM.dat
Aquired: 7/2/2014 8:38:20 AM



FID Results

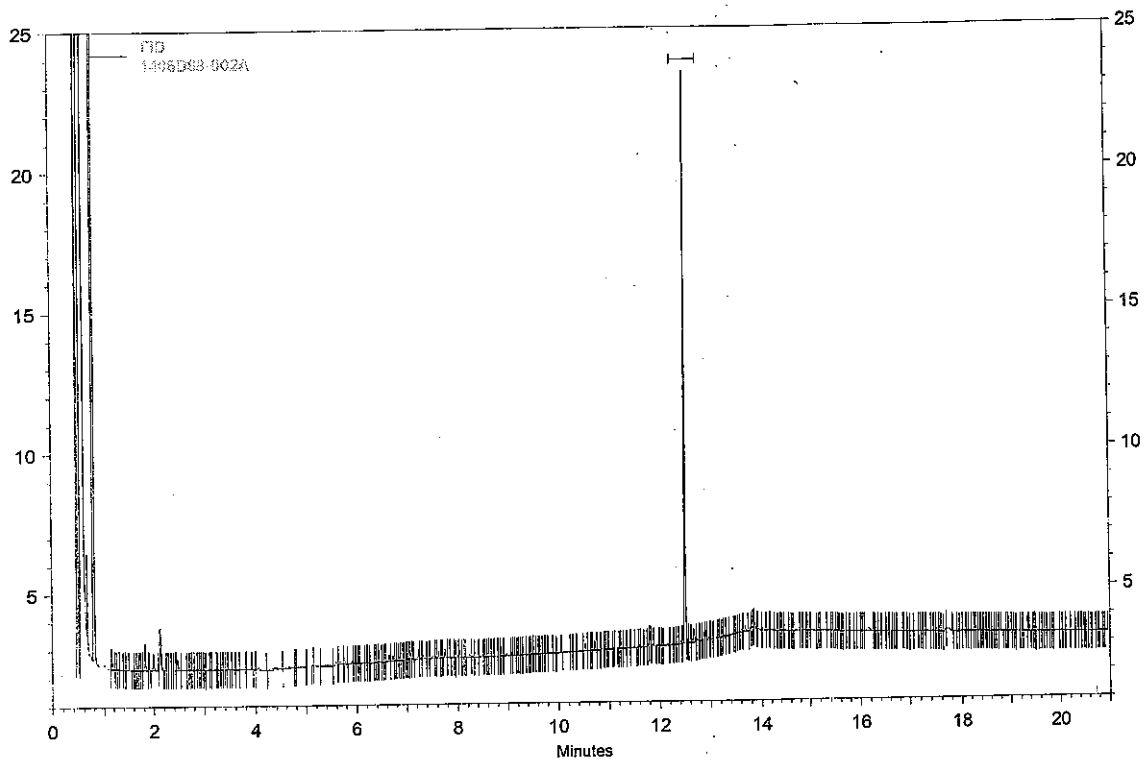
Name	Retention Time	Area	ug/ml
DNOP	12.49	21386	8.165
DRO		6621	0.000
MRO		23263	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **5** User: **System**
Sample ID: **1406D88-002A** Data Descritpion: **SOIL RR X 1**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A 07-02-14 9-10-19 AM.dat
Aquired: 7/2/2014 9:11:32 AM



FID Results

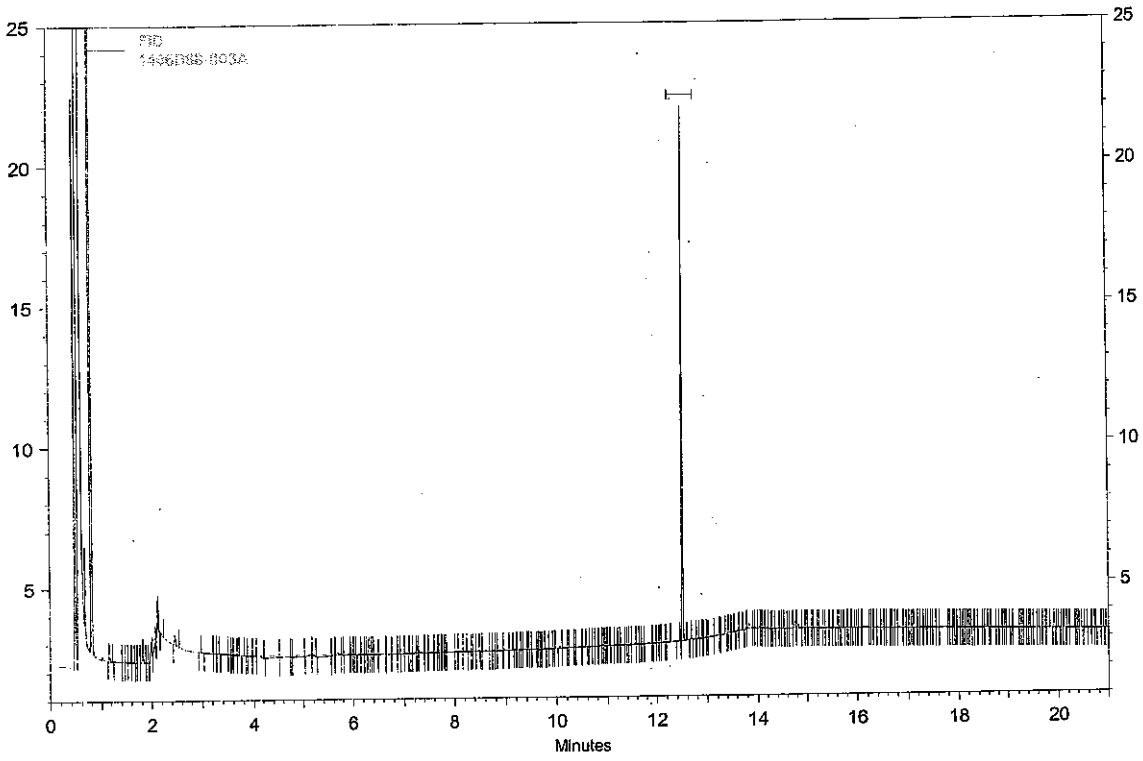
Name	Retention Time	Area	ug/ml
DNOP	12.49	22892	8.750
DRO		9547	0.000
MRO		6589	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **6** User: **System**
Sample ID: **1406D88-003A** Data Descritpion: **SOIL**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-003A 07-02-14 9-32-44 AM.dat
Aquired: 7/2/2014 9:41:36 AM



FID Results

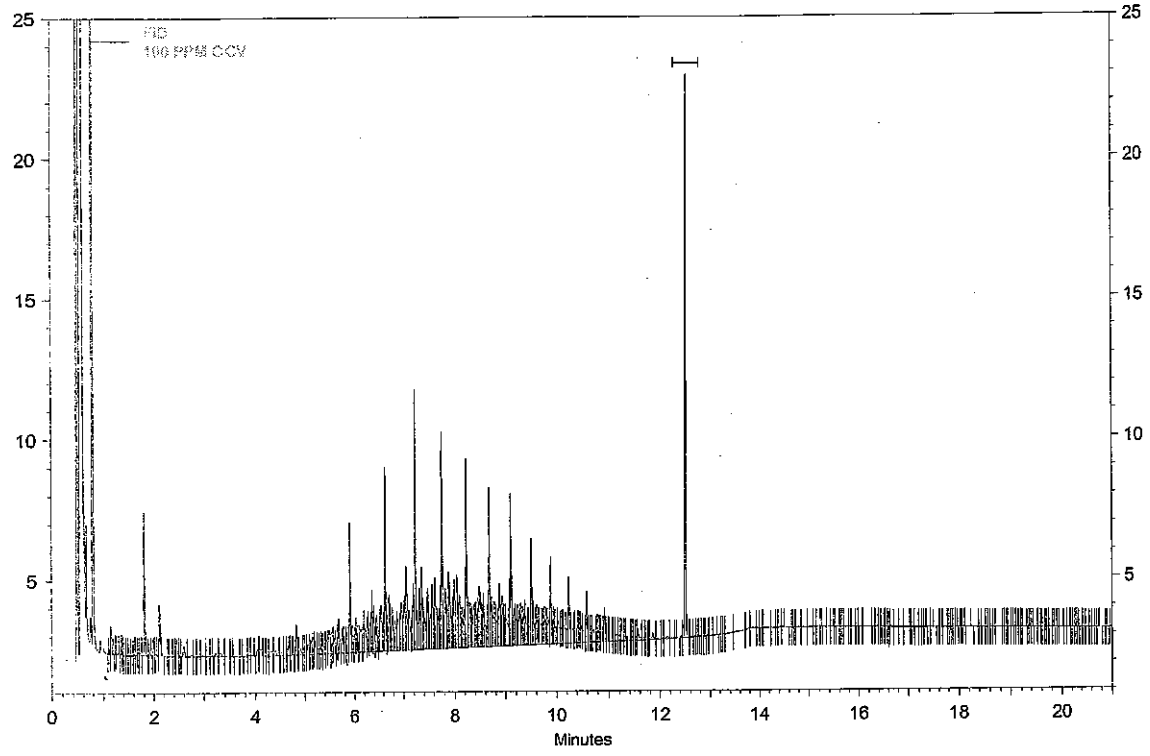
Name	Retention Time	Area	ug/ml
DNOP	12.49	21487	8.204
DRO		5303	0.000
MRO		3937	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 11-33-58 AM.dat
Aquired: 7/2/2014 11:43:07 AM



FID Results

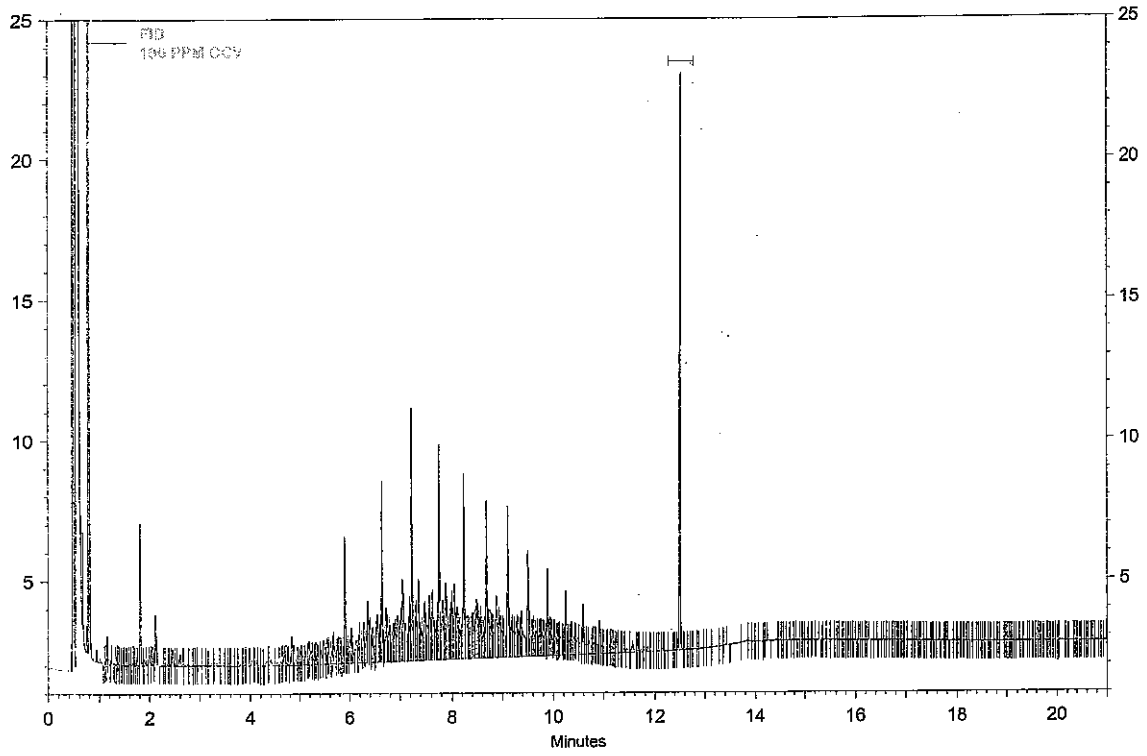
Name	Retention Time	Area	ug/ml
DNOP	12.49	23306	8.911
DRO		325186	103.461
MRO		3477	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 4-12-12 PM.dat
Aquired: 7/2/2014 4:21:34 PM



FID Results

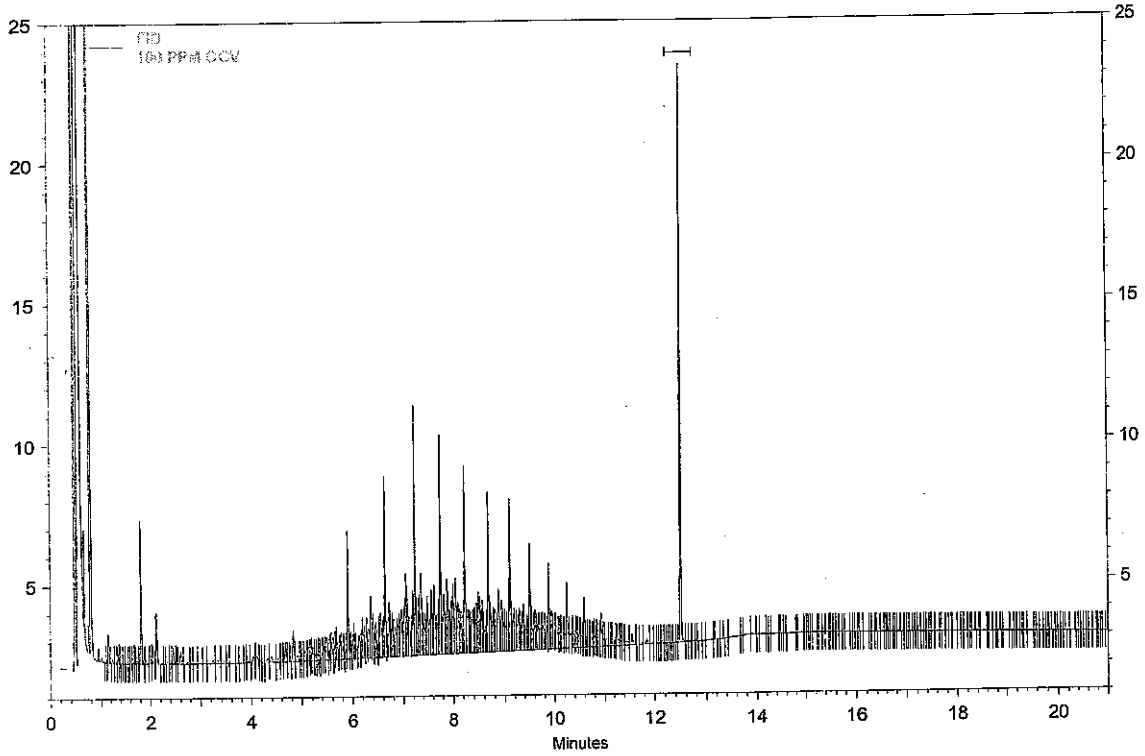
Name	Retention Time	Area	ug/ml
DNOP	12.49	23346	8.927
DRO		314548	99.944
MRO		2710	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 10-19-20 PM.dat
Aquired: 7/2/2014 10:28:25 PM



FID Results

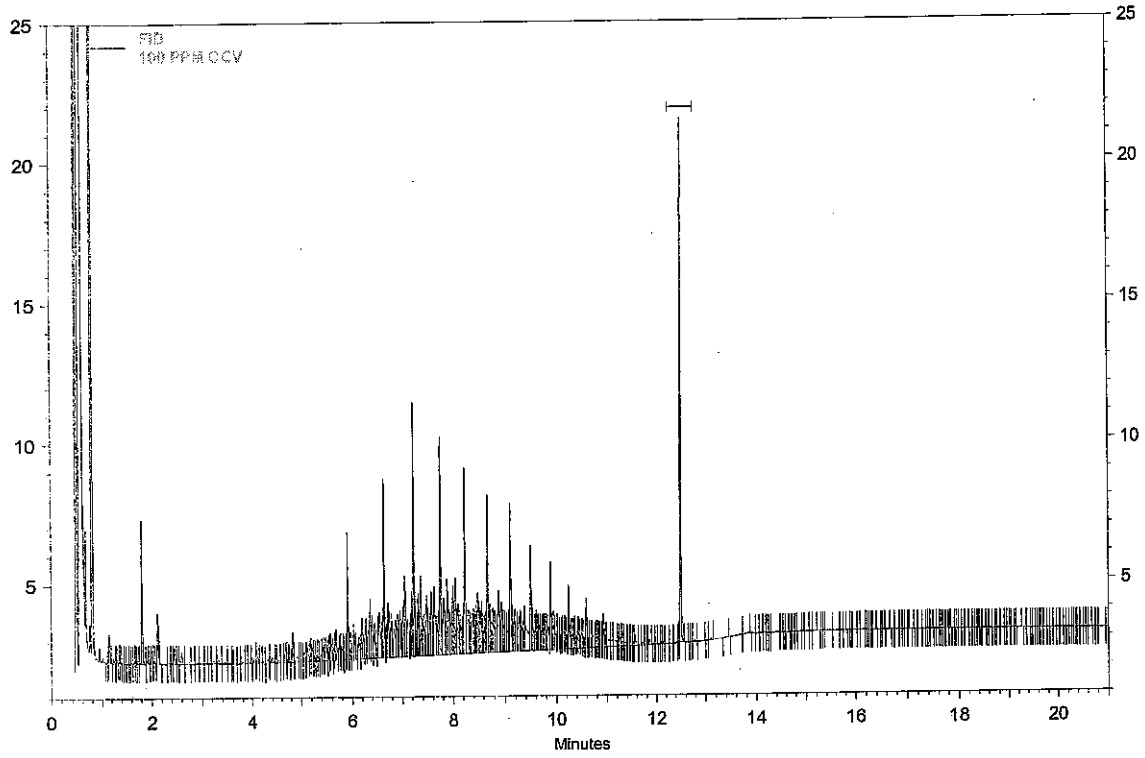
Name	Retention Time	Area	ug/ml
DNOP	12.49	23282	8.902
DRO		318650	101.300
MRO		2400	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-03-14 2-22-48 AM.dat
Aquired: 7/3/2014 2:32:00 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	21463	8.195
DRO		305571	96.976
MRO		2385	0.000

Analyst _____

Reviewed By _____

Sequence Print

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1000 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO<D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

JV
6.11.14

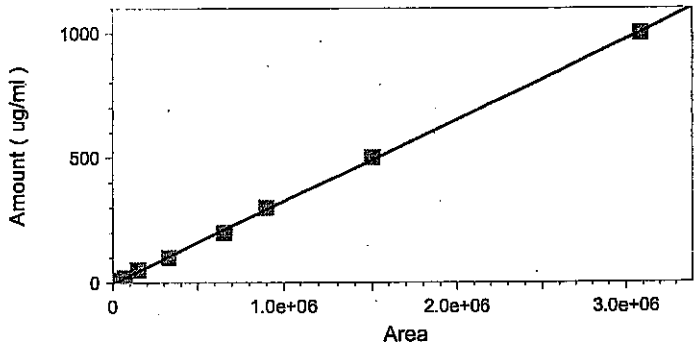
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000290499 RF StDev: 6.74961e-005 RF %RSD: 23.2346
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.55824e-012x^2 + 0.000331597x - 4.20499
Goodness of fit (r^2): 0.999542

6/11/14

Group: DRO -- ESTD -- FID



6/11/14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	33465	35387	71554	149816	328395
RF	0.000119527	0.00028258965	0.000279509181	0.000333742724	0.0003045113
Last Area	864933513	156696	876625	408608	35434462
Residual	-2.89017	2.47271	0.485855	4.56138	-4.52186
Rep StDev					
Rep %RSD					
Rep 1 Area	33465	35387	71554	149816	328395
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 06-10-14 10-37-48 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 06-10-14 11-01-02 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 06-10-14 11-30-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 06-10-14 12-00-17 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 06-10-14 12-30-17 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014 8:18:28 AM	6/11/2014 8:18:44 AM	6/11/2014 8:18:56 AM	6/11/2014 8:19:08 AM	6/11/2014 8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	657869	900062	1501075	3084596
RF	0.000304011	0.00033331037	0.000333094615	0.000324191563
	892945252	1952154	52554	498105
Last Area				
Residual	-13.2682	7.00919	9.96362	-3.81251
Rep StDev				
Rep %RSD				
Rep 1 Area	657869	900062	1501075	3084596
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

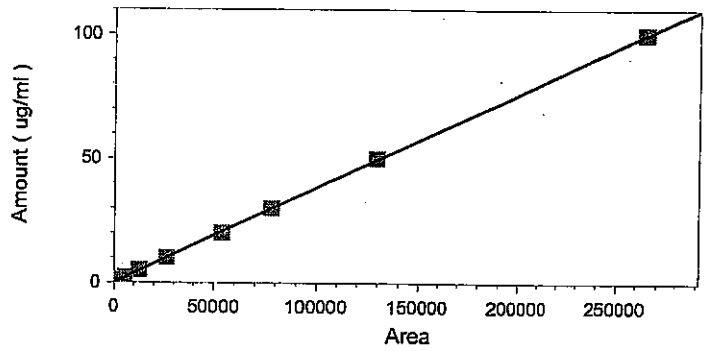
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000378339 RF StDev: 1.07205e-005 RF %RSD: 2.83356
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.58389e-011x^2 + 0.000390628x - 0.168023
Goodness of fit (r^2): 0.999894 ✓

JR 6/10/14

Peak: DNOP -- ESTD -- FID



JR 6.11.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	1038	2715	5566	12714	26459
RF	0.000385356	0.00036832412	0.000359324469	0.000393267264	0.0003779432
Last Area	454720617	5230203	996407	432909	32926414
Residual	0.1626	0.107806	-0.0047928	0.208987	-0.135515
Rep StDev					
Rep %RSD					
Rep 1 Area	1038	2715	5566	12714	26459
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 06-10-14 10-37-48 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 06-10-14 11-01-02 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 06-10-14 11-30-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 06-10-14 12-00-17 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 06-10-14 12-30-17 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014 8:18:28 AM	6/11/2014 8:18:44 AM	6/11/2014 8:18:56 AM	6/11/2014 8:19:08 AM	6/11/2014 8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	53946	77805	129208	264869
RF	0.000370741	0.00038557933	0.000386972942	0.000377545126
	111481852	2947754	851836	081195
Last Area				
Residual	-0.771401	0.0526954	0.461015	-0.0813953
Rep StDev				
Rep %RSD				
Rep 1 Area	53946	77805	129208	264869
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

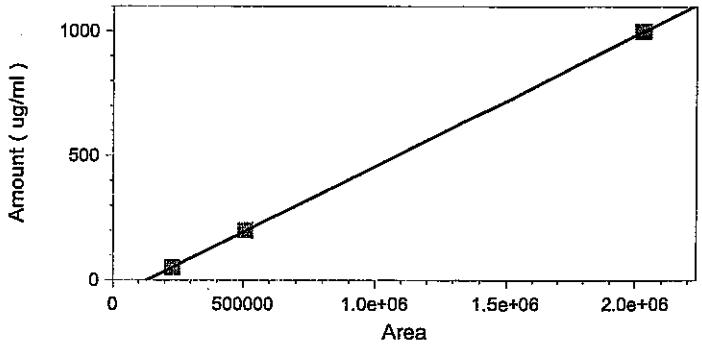
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:59 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000368377 RF StDev: 0.000139230 RF %RSD: 37.7954
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000527306x - 69.3905
Goodness of fit (r^2): 0.999989

J JZ 6/10/14

Group: MRO -- ESTD -- FID



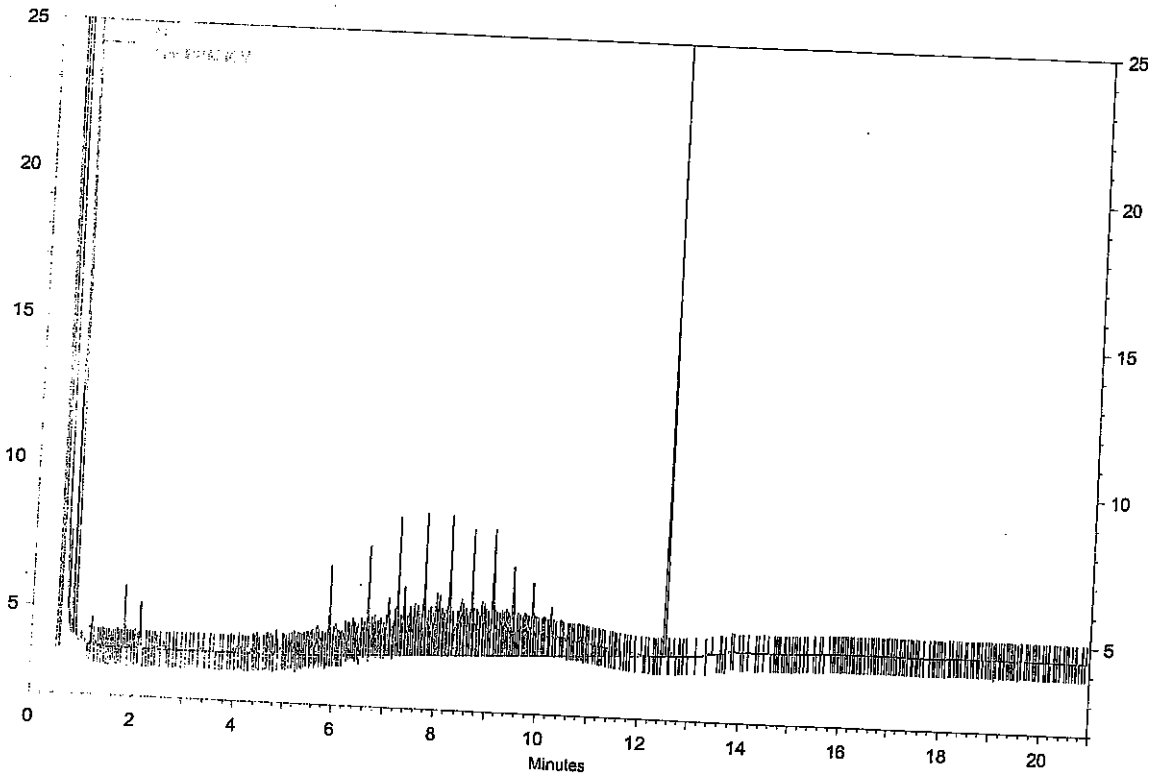
JZ 6.11.14

	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	229267	507508	2028547
RF	0.000218086	0.00039408245	0.000492963682
	336018703	7813473	872519
Last Area			
Residual	-1.50338	1.77839	-0.275011
Rep StDev			
Rep %RSD			
Rep 1 Area	229267	507508	2028547
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 06-10-14 3-29-42 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 06-10-14 3-59-24 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO06-10-14 4-29-27 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1000 PPM MO
Rep 1 Calib. Time	6/11/2014 8:20:29 AM	6/11/2014 8:20:44 AM	6/11/2014 8:20:56 AM

Sample ID: **100 PPM ICV** Vial #: **10** User: **System**

Data Descritpion: **SV109-1483**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 06-10-14 3-00-09 PM.dat
Aquired: 6/10/2014 3:08:28 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	25363	9.710
DRO		292549	92.670
MRO		3081	0.000

±20%

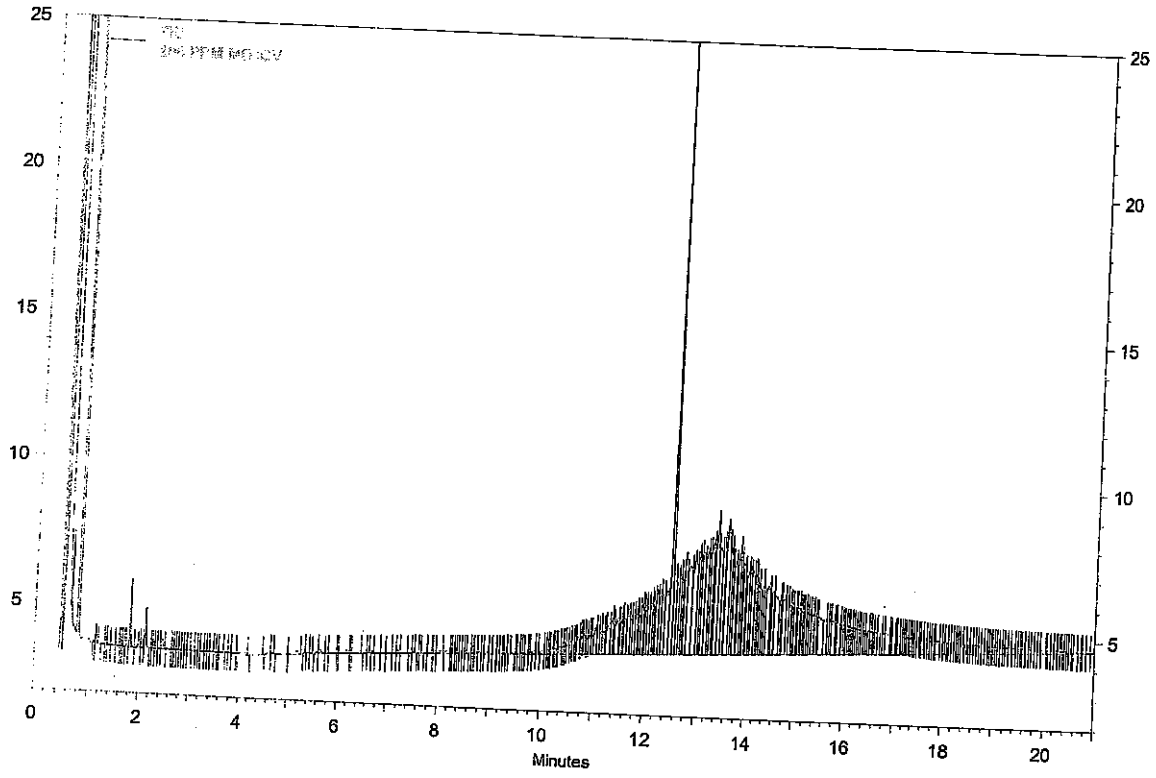
Analyst _____

Reviewed By _____

Sample ID: **200 PPM MO ICV** Vial #: 14 User: **System**

Data Descritpion: **SV109-1487**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	36292	13.948
DRO		100298	29.038
MRO		506623	197.755

Analyst JE

Reviewed By JC

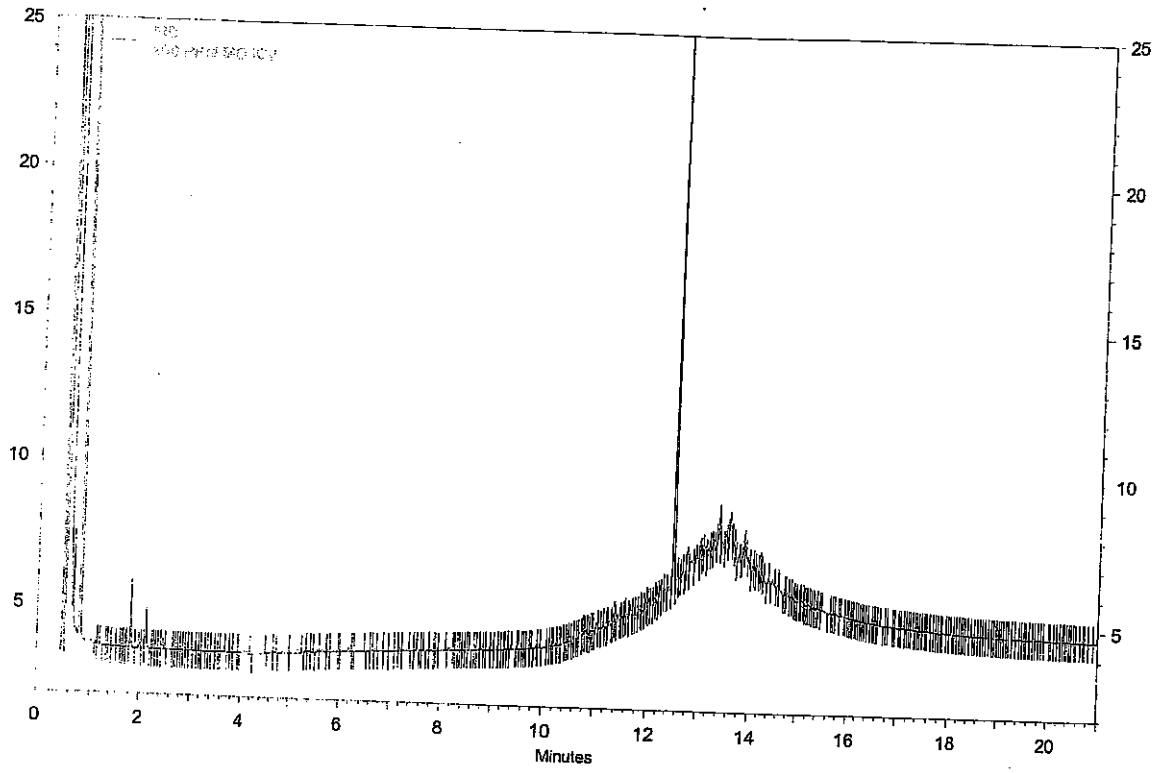
13.948
-10.574
3.374
+197.755
201.129

±20% /

$\frac{201.129}{200} \times 100 = 100.5645\%$

Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1487** User: **System**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	27588	10.574
DRO		11171	0.000
MRO		19497	0.000

Analyst _____

Reviewed By _____

NB 7/3/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1406D88**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001 **Collection Date:** 6/30/2014 10:29:00 AM
Client Sample ID: FFOR-CF-0001 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg-dry	1	R19656	7/2/2014 3:54:26 PM
Surr: BFB	111	61.2-137		%REC	1	R19656	7/2/2014 3:54:26 PM

Lab ID: 1406D88-002 **Collection Date:** 6/30/2014 10:36:00 AM
Client Sample ID: FFOR-CF-0002 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg-dry	1	R19656	7/2/2014 4:22:39 PM
Surr: BFB	115	61.2-137		%REC	1	R19656	7/2/2014 4:22:39 PM

Lab ID: 1406D88-003 **Collection Date:** 6/30/2014 10:46:00 AM
Client Sample ID: FFOR-CF-0003 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg-dry	1	R19656	7/2/2014 4:50:49 PM
Surr: BFB	113	61.2-137		%REC	1	R19656	7/2/2014 4:50:49 PM

Lab ID: 1406D88-004 **Collection Date:** 6/30/2014 10:55:00 AM
Client Sample ID: FFOR-CF-0004 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg-dry	1	R19656	7/2/2014 5:19:00 PM
Surr: BFB	113	61.2-137		%REC	1	R19656	7/2/2014 5:19:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-009
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 7/3							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Surr: BFB	120	61.2-137		%REC	1	R19656	7/2/2014 7:39:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0614v\062314v all crvs\gro\2.5ug gro icv 6-2 **Acquisition Date:** 6/24/2014 18:42

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0614v\062314v all CRVs\GRO\2.5ug gro crv 6-24-2014.SMS

Cal. Sample Dates: First: 6/24/2014 17:18 **Last:** 6/24/2014 17:18

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.66	ug	2.50	106 %	80 - 120	PASS

* indicates Internal Standard.

RH 6/26/14

✓ 06/26/14

Analyst: RAA

arian Star Workstation - Generic SampleList Wed Jul 02 15:23:10 2014

ampleList: C:\VarianWS\070214v.smp

reated: Wed Jul 02 07:39:35 2014
odified: Wed Jul 02 15:22:32 2014

****

Line	Sample Name	Injection	Notes
1	rtm	below	
	Notes	V-18-1994	
2	5mL-rb	below	tune @ 8:25
	Notes	All injections contain V-52-0458	
3	2.5ug gro ccv	below	@ 8:53
	Notes	V-18-2044	
4	2.5ug gro lcs	below	
	Notes	V-18-2036	
5	50ng ccv	below	@ 9:49
	Notes	V-54-0428	
6	200ng annex ccv	below	
	Notes	V-11-8029	
7	100ng lcs	below	
	Notes	V-11-8033	
8	vcb	none	tune @ 11:13
9	1406b35-001a	below	LF
	Notes	x1-50mL AIR	
10	1406b35-001a dup	below	
	Notes	x1-50mL AIR	
11	1406b35-002a	below	
	Notes	x1-50mL AIR	
12	1406b35-003a	below	
	Notes	x1-50mL AIR	
13	1406b35-004a	below	
	Notes	x1-50mL AIR	
14	1407077-001a	below	
	Notes	x1-5mL AXIS	
15	1407077-001a ms	below	
	Notes	V-11-8033	
16	1407077-001a msd	below	
	Notes	V-11-8033	
17	1407077-002a	below	
	Notes	x1-5mL AXIS TB	
18	1406d88-001a	below	
	Notes	x1-100uL MeOH GRO	
19	1406d88-002a	below	
	Notes	x1-100uL MeOH GRO	
20	1406d88-003a	below	
	Notes	x1-100uL MeOH GRO	
21	1406d88-004a	below	
	Notes	x1-100uL MeOH GRO	
22	1406d88-005a	below	
	Notes	x1-100uL MeOH GRO	
23	1406d88-006a	below	
	Notes	x1-100uL MeOH GRO	
24	1406d88-007a	below	
	Notes	x1-100uL MeOH GRO	
25	1406d88-008a	below	
	Notes	x1-100uL MeOH GRO	
26	1406d88-009a	below	
	Notes	x1-100uL MeOH Blk 8260, GRO	
27	1406d88-001a ms	below	rr
	Notes	x1-100uL MeOH GRO	@ 8:35
28	1406d88-001a msd	below	rr
	Notes	x1-100uL MeOH GRO	
29	1406c22-01~~1~~2a ms4	below	
	Notes	V-54-0418	
30	1406c22-01~~1~~2a msd4	below	@ 9:31
	Notes	V-54-0418	
31	rtm	below	
	Notes	V-18-1994	
32	bl	none	tune @ 10:27
33	100ng ccv	below	
	Notes	V-54-0428	
34	2.25ug gro ccv	below	
	Notes	V-18-2044	

Loaded By: RK 7-2-14
1st Review By: 7-3-14 (KJH) 7/3/14
QA'd By: WB 7/3/14

```
36                1407066-001a      below
                      Notes  x1-100uL MeOH GRO
37                1407066-002a      below
                      Notes  x1-100uL MeOH GRO
38                1407066-003a      below
                      Notes  x1-100uL MeOH GRO
39                1407066-004a      below
                      Notes  x1-100uL MeOH GRO
40                1407066-005a      below
                      Notes  x1-100uL MeOH GRO
41                1407066-006a      below
                      Notes  x1-100uL MeOH GRO
42                1407066-007a      below
                      Notes  x1-100uL MeOH GRO
43                1407066-008a      below
                      Notes  x1-100uL MeOH Blk 8260, GRO
44                1406d72-001a      below
                      Notes  x1-100uL MeOH
45             1406d72-001a ms      below
                      Notes  V-11-8033
46            1406d72-001a msd      below
                      Notes  V-11-8033
47                1406d72-002a      below
                      Notes  x1-100uL MeOH
48                1406d72-003a      below
                      Notes  x1-100uL MeOH
49                1406d72-004a      below
                      Notes  x1-100uL MeOH
50                1406d72-005a      below
                      Notes  x1-100uL MeOH @C:49
51

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070214v.rcl.
```

Loaded By: 7.2.14
1st Review By: 7.3.14 KJH 7/3/14
QA'd By: ✓ NR 7/3/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114v GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	X	☐	☐	X	

8260 annex

Calibration Name: 062914v 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	X	☐	☐	high-rr hits
Acrylonitrile	X	☐	☐	☐	
Isobutyl alcohol	☐	X	☐	☐	high-rr hits
1,4-Dioxane	X	☐	☐	☐	
trans-1,4-Dichloro-2-butene	X	☐	☐	☐	

Analyst: RA 7-2-14

QA: NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): data\2014v\0714v\070314v\gro\2.5ug gro ccv 7-2-2014.SMS Lab Sample ID: 2.5ug gro ccv

Instrument ID: VAL Date Analyzed: 7/2/2014 Time Analyzed: 08:53

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	86505	14.31										
UPPER LIMIT	173010	14.81										
LOWER LIMIT	43253	13.81										
EPA SAMPLE NO												
rtm 7-2-20	89175	14.31										
5mL-rb 7-2	83295	14.30										
2.5ug gro	87993	14.30										
1406d88-00	67828	14.31										
1406d88-00	65482	14.31										
1406d88-00	64602	14.31										
1406d88-00	66038	14.31										
1406d88-00	60872	14.31										
1406d88-00	64855	14.31										
1406d88-00	62453	14.31										
1406d88-00	63627	14.31										
1406d88-00	61783	14.31										
1406d88-00	62170	14.31										
1406d88-00	62927	14.31										
rtm 7-2-20	75385	14.31										
2.25ug gro	82806	14.31										

7.3.14

DB 7/3/14

7/3/2014 9:45

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
1407066-00	76483	14.30										
1407066-00	66959	14.30										
1407066-00	67984	14.30										
1407066-00	63210	14.30										
1407066-00	66105	14.31										
1407066-00	68258	14.31										
1407066-00	67906	14.30										
1407066-00	65372	14.30										

IS1 = Benzene-d5-, chloro-
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

RAA 7-3-14

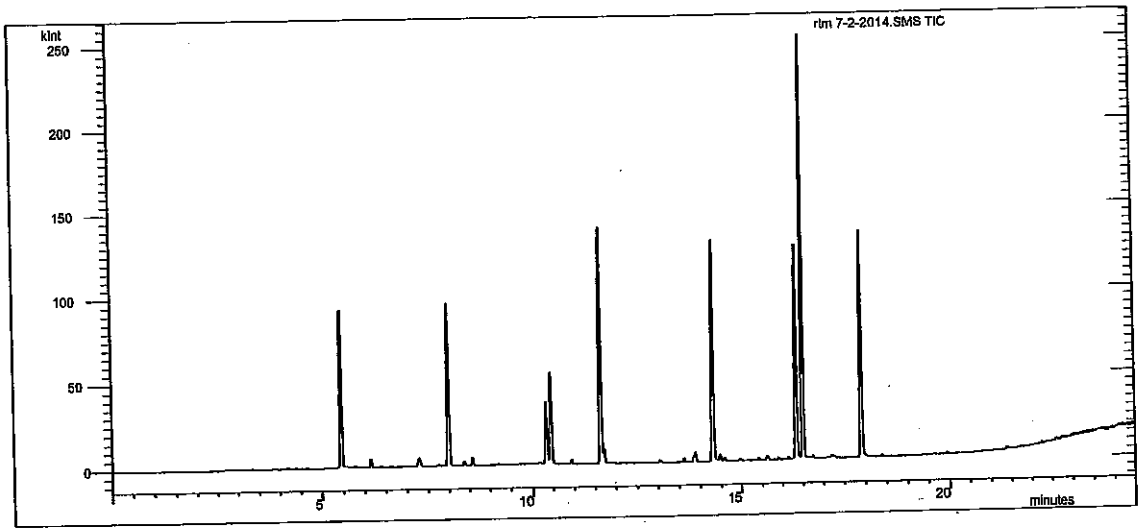
✓ JB 7/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 7:57:49 AM
Calculation Date:	7/2/2014 9:20:29 AM				

LTCQL 7-7-3-14



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1190	Identified	89175	50.000
GRO	11.000	898	Identified	2.620E6	0.205
BFB	16.339	1369	Identified	92598	51.744

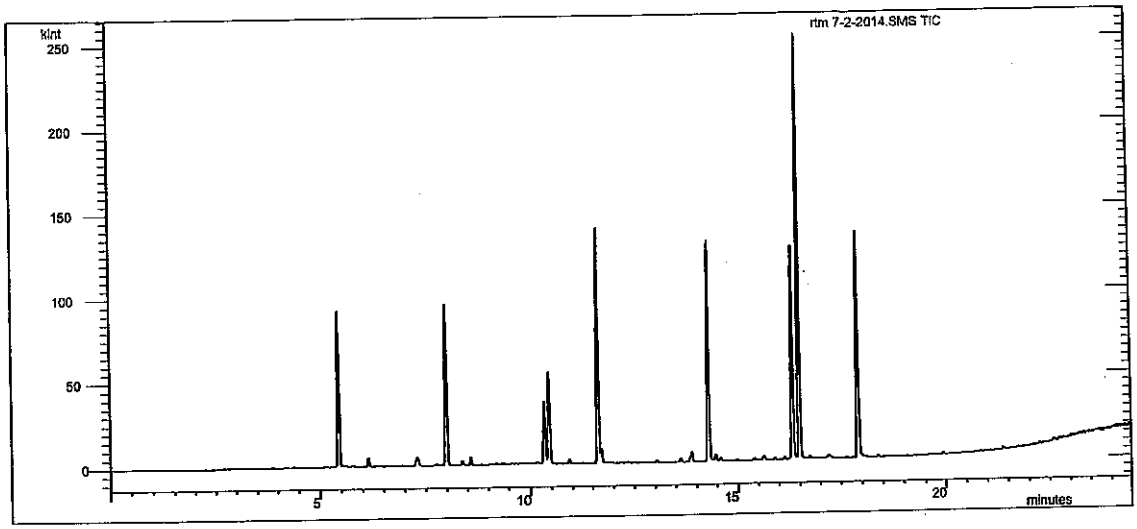
```
**********************************************************
Revision Log
**********************************************************

7/2/2014 8:22 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:20 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

NB 7/3/14

8260B/624 Report

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 7:57:49 AM
Calculation Date:	7/2/2014 8:22:18 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.990	633	Identified	62427	50.000
Benzene-d5-, chloro-	14.308	1190	Identified	89655	50.000
1,4-Dichlorobenzene-d4	17.912	1507	Identified	50284	50.000
Dichlorodifluoromethane	2.898	184	Identified	726	0.473
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.345	223	Identified	1086	1.866
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	378	Missing		N/A
Acetone	5.348	400	Identified	1920	1.350
Carbon disulfide	5.388	404	Failed	519	N/A
Iodomethane	5.600	423	Identified	836	26.511
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.638	514	Identified	3819	38.309
trans-1,2-DCE	6.730	522	Missing		N/A
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.290	571	Identified	8353	1.077
Vinyl Acetate	7.362	578	Missing		N/A
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.651	603	Missing		N/A
1,1,1-Trichloroethane	8.325	662	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	667	Missing		N/A
1,1-Dichloropropene	8.399	669	Missing		N/A
Carbon Tetrachloride	8.628	689	Missing		N/A
cis-1,2-DCE	9.047	726	Missing		N/A
Benzene	9.193	739	Identified	1061	0.283
Chloroform	9.604	775	Missing		N/A
Bromochloromethane	10.018	812	Missing		N/A
Trichloroethene (TCE)	10.203	828	Missing		N/A
Dibromofluoromethane	10.332	839	Identified	83615	45.255
1,2-Dichloroethane-d4	10.446	849	Identified	244960	44.059
1,2-Dichloroethane (EDC)	10.554	859	Missing		N/A
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.858	886	Identified	923	2.140
Toluene-d8	11.632	954	Identified	152826	44.892
Toluene	11.711	961	Identified	9465	1.786
2-Chloroethyl vinyl ether	11.978	984	Missing		N/A
Tetrachloroethene (PCE)	12.187	1003	Missing		N/A
cis-1,3-dichloropropene	12.189	1003	Missing		N/A
2-Hexanone	12.196	1004	Missing		N/A
Bromodichloromethane	12.257	1009	Missing		N/A
Dibromomethane	12.364	1018	Missing		N/A
1,3-Dichloropropane	13.266	1098	Missing		N/A
trans-1,3-dichloropropene	13.328	1103	Missing		N/A
Ethylbenzene	13.612	1128	Identified	2457	0.213
mp-Xylenes	13.878	1152	Identified	7602	1.076
1,1,2-Trichloroethane	14.080	1169	Missing		N/A
Chlorobenzene	14.341	1193	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1198	Missing		N/A
o-Xylene	14.581	1214	Identified	1836	0.078
1,1,1,2-Tetrachloroethane	14.722	1226	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.780	1231	Missing		N/A
Styrene	15.176	1266	Missing		N/A
n-Propylbenzene	15.406	1286	Identified	1381	0.202
1,3,5-Trimethylbenzene	15.898	1330	Identified	993	0.011
tert-Butylbenzene	16.103	1348	Missing		N/A
2-Chlorotoluene	16.252	1361	Missing		N/A
4-Bromofluorobenzene	16.339	1369	Identified	92598	46.526
sec-Butylbenzene	16.375	1372	Missing		N/A
4-Chlorotoluene	16.418	1375	Missing		N/A
Bromobenzene	16.458	1379	Missing		N/A
1,2,4-Trimethylbenzene	16.495	1382	Identified	192115	41.990
4-Isopropyltoluene	16.668	1398	Missing		N/A
Bromoform	17.002	1427	Missing		N/A
1,2,3-Trichloropropane	17.173	1442	Missing		N/A
n-Butylbenzene	17.286	1452	Identified	779	0.277
1,1,2,2-Tetrachloroethane	17.595	1479	Missing		N/A
1,3-Dichlorobenzene	17.677	1486	Missing		N/A
1,4-Dichlorobenzene	17.950	1510	Missing		N/A
1,2-Dichlorobenzene	18.557	1564	Missing		N/A

Operator: Rene Aguilera Inj. Notes: V-18-1994 rtm 7-2-2014.SMS

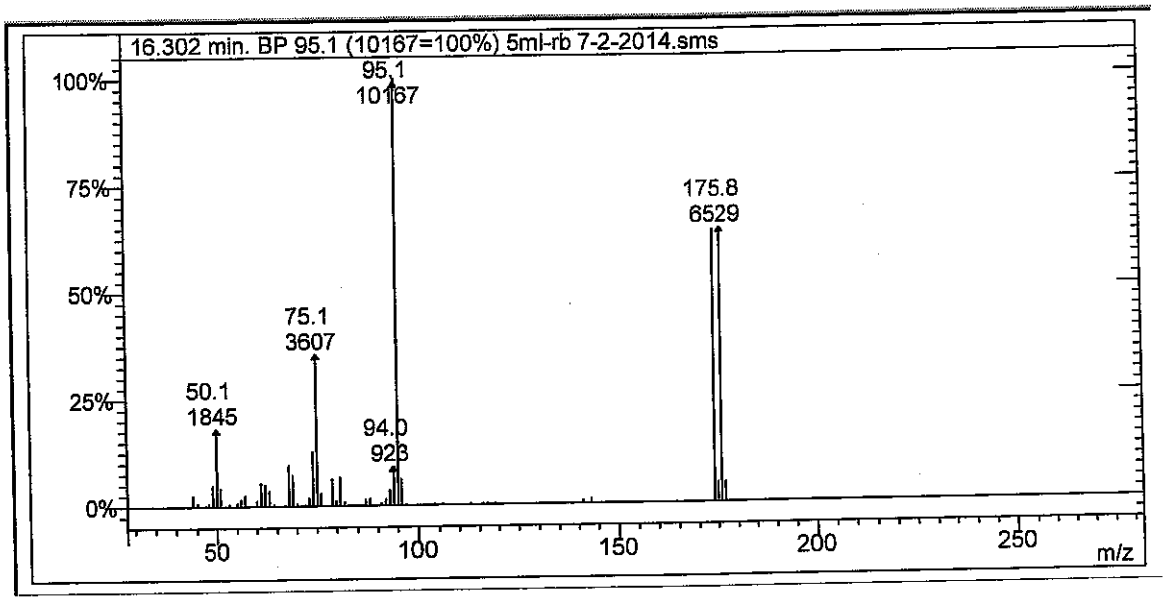
7/2/2014 8:22

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1703	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1729	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1765	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1845	Missing		N/A
Naphthalene	21.751	1846	Missing		N/A
2-Methylnaphthalene	23.236	1981	Missing		N/A
1-Methylnaphthalene	23.626	2017	Missing		N/A

****
Revision Log
****

7/2/2014 8:22 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

BFB 8260B Report



Lab File ID: 5ml-rb 7-2-2014.sms

Injection Date: 7/2/2014

Injection Time: 8:25

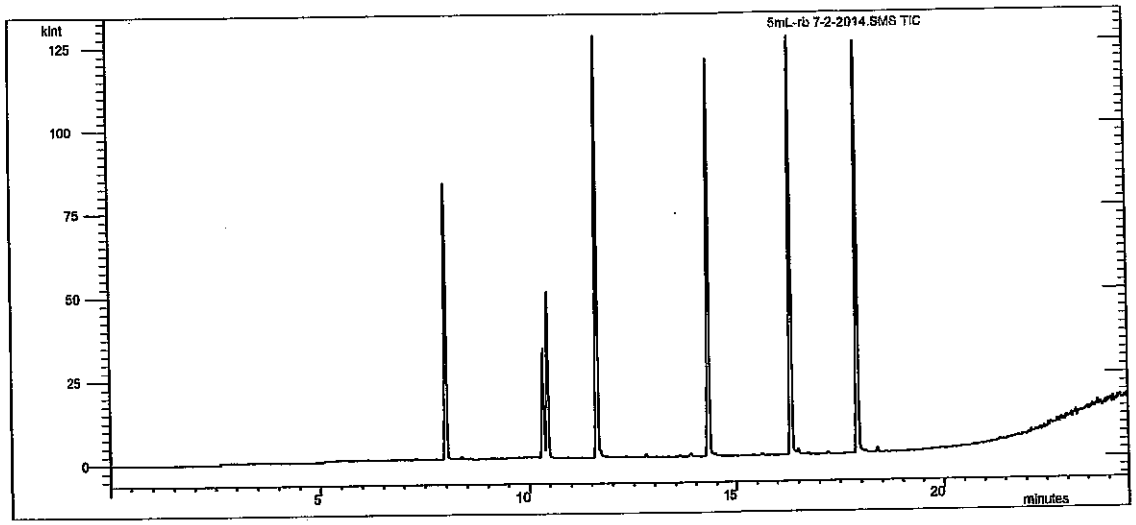
m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.15	PASS
75	30-60% of m/z 95	35.48	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.15	PASS
173	<2% of m/z 174	0.18	PASS
174	>50% of m/z 95	63.85	PASS
175	5-9% of m/z 174	7.19	PASS
176	>95% but <101% of m/z 174	100.57	PASS
177	5-9% of m/z 176	7.15	PASS

JNB 7/3/14

RA 7-3-14

8260B/624 Report

Sample Name:	5mL-rb	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	All injections contain V-52-0458	**Acquisition Date:**	7/2/2014 8:25:44 AM
Calculation Date:	7/2/2014 10:59:07 AM				



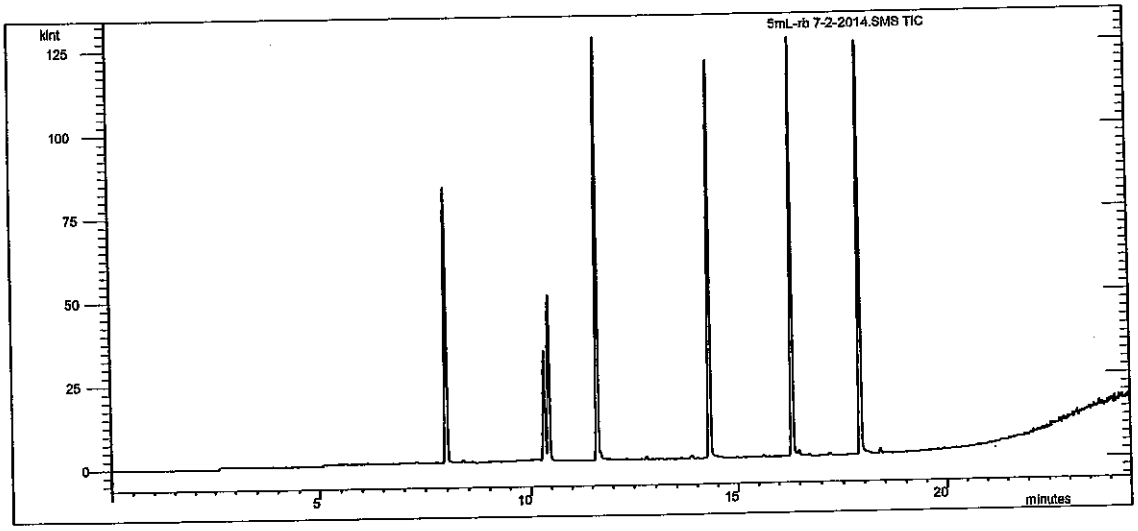
Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.988	633	Identified	55090	50.000
Benzene-d5-, chloro-	14.303	1189	Identified	83490	50.000
1,4-Dichlorobenzene-d4	17.908	1506	Identified	48646	50.000
Acrolein	5.616	424	Missing		N/A
Acrylonitrile	8.397	669	Missing		N/A
Isobutyl Alcohol	10.815	882	Missing		N/A
1,4-Dioxane	11.096	906	Missing		N/A
trans-1,4-Dichloro-2-butene	17.104	1436	Missing		N/A

****
Revision Log
****

7/2/2014 8:50 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 10:59 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062914v 8260 annex.mth'

8260B/624 Report

Sample Name:	5mL-rb	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	All injections contain V-52-0458	**Acquisition Date:**	7/2/2014 8:25:44 AM
Calculation Date:	7/2/2014 8:50:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.988	633	Identified	55090	50.000
Benzene-d5-, chloro-	14.303	1189	Identified	83630	50.000
1,4-Dichlorobenzene-d4	17.908	1506	Identified	48646	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	378	Missing		N/A
Acetone	5.450	409	Identified	738	0.021
Carbon disulfide	5.411	406	Missing		N/A
Iodomethane	5.617	424	Missing		N/A
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.622	512	Identified	790	31.786
trans-1,2-DCE	6.730	522	Missing		N/A
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.287	571	Identified	631	N/A
Vinyl Acetate	7.362	577	Missing		N/A
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.761	613	Failed	516	11.612
1,1,1-Trichloroethane	8.325	662	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	667	Missing		N/A
1,1-Dichloropropene	8.399	669	Missing		N/A
Carbon Tetrachloride	8.628	689	Missing		N/A
cis-1,2-DCE	9.047	726	Missing		N/A
Benzene	9.208	740	Missing		N/A
Chloroform	9.604	775	Missing		N/A
Bromochloromethane	10.018	811	Missing		N/A
Trichloroethene (TCE)	10.203	828	Missing		N/A
Dibromofluoromethane	10.331	839	Identified	78123	47.728
1,2-Dichloroethane-d4	10.442	849	Identified	221140	44.950
1,2-Dichloroethane (EDC)	10.554	859	Missing		N/A
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.911	890	Identified	591	2.043
Toluene-d8	11.629	953	Identified	139500	43.948
Toluene	11.709	961	Identified	1729	0.093
2-Chloroethyl vinyl ether	11.978	984	Missing		N/A
Tetrachloroethene (PCE)	12.187	1003	Missing		N/A
cis-1,3-dichloropropene	12.189	1003	Missing		N/A
2-Hexanone	12.196	1004	Missing		N/A
Bromodichloromethane	12.257	1009	Missing		N/A
Dibromomethane	12.364	1018	Missing		N/A
1,3-Dichloropropane	13.266	1098	Missing		N/A
trans-1,3-dichloropropene	13.328	1103	Missing		N/A
Ethylbenzene	13.618	1129	Missing		N/A
mp-Xylenes	13.869	1151	Identified	1447	N/A
1,1,2-Trichloroethane	14.080	1169	Missing		N/A
Chlorobenzene	14.341	1192	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1197	Missing		N/A
o-Xylene	14.590	1214	Missing		N/A
1,1,1,2-Tetrachloroethane	14.722	1226	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.780	1231	Missing		N/A
Styrene	15.176	1266	Missing		N/A
n-Propylbenzene	15.416	1287	Missing		N/A
1,3,5-Trimethylbenzene	15.907	1330	Missing		N/A
tert-Butylbenzene	16.103	1347	Missing		N/A
2-Chlorotoluene	16.252	1361	Missing		N/A
4-Bromofluorobenzene	16.334	1368	Identified	86623	44.923
sec-Butylbenzene	16.375	1371	Missing		N/A
4-Chlorotoluene	16.418	1375	Missing		N/A
Bromobenzene	16.458	1379	Missing		N/A
1,2,4-Trimethylbenzene	16.491	1382	Identified	1045	N/A
4-Isopropyltoluene	16.668	1397	Missing		N/A
Bromoform	17.002	1427	Missing		N/A
1,2,3-Trichloropropane	17.173	1442	Missing		N/A
n-Butylbenzene	17.296	1453	Missing		N/A
1,1,2,2-Tetrachloroethane	17.595	1479	Missing		N/A
1,3-Dichlorobenzene	17.677	1486	Missing		N/A
1,4-Dichlorobenzene	17.950	1510	Missing		N/A
1,2-Dichlorobenzene	18.557	1564	Missing		N/A

Operator: Rene Aguilera

Inj. Notes: All injections contain V-52-0458

5mL-rb 7-2-2014.SMS

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1703	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1729	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1765	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1845	Missing		N/A
Naphthalene	21.751	1846	Missing		N/A
2-Methylnaphthalene	23.236	1982	Missing		N/A
1-Methylnaphthalene	23.626	2018	Missing		N/A

****
Revision Log
****

7/2/2014 8:50 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 014v\0714v\070114v grocrv\gro\2.5ug gro crv 7-1-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/1/2014 Time Analyzed: 15:54

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	80312	14.31										
UPPER LIMIT	160624	14.81										
LOWER LIMIT	40156	13.81										
EPA SAMPLE NO												
2.5ug gro	86505	14.31										

DA 7.2.14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

✓ JDS 7/3/14

7/2/2014 9:21

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/2/2014 Time: 8:53

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 18:43 18:43

Initial Calibration File: H:\Val\Data\2014v\0714v\070114v grocrv\GRO\2.5ug gro crv 7-1-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2877.355	0.100	2.50	2.80	-12.1	20.0	PASS	PASS
BFB	1.043	0.100	50.00	51.98	-4.0	30.0	PASS	PASS

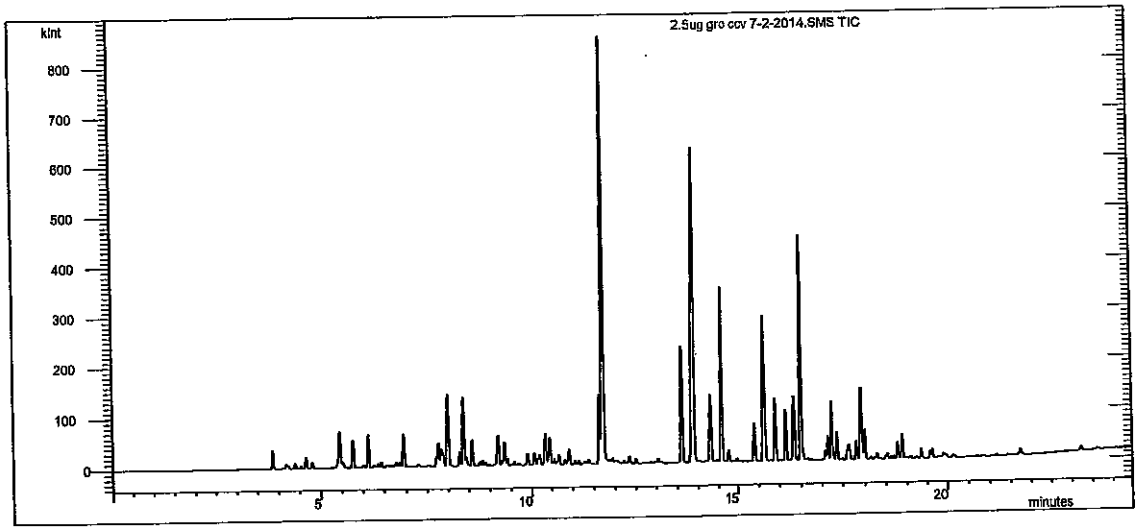
RA 7-3-14

✓ WB 7/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 8:53:43 AM
Calculation Date:	7/2/2014 9:19:26 AM				



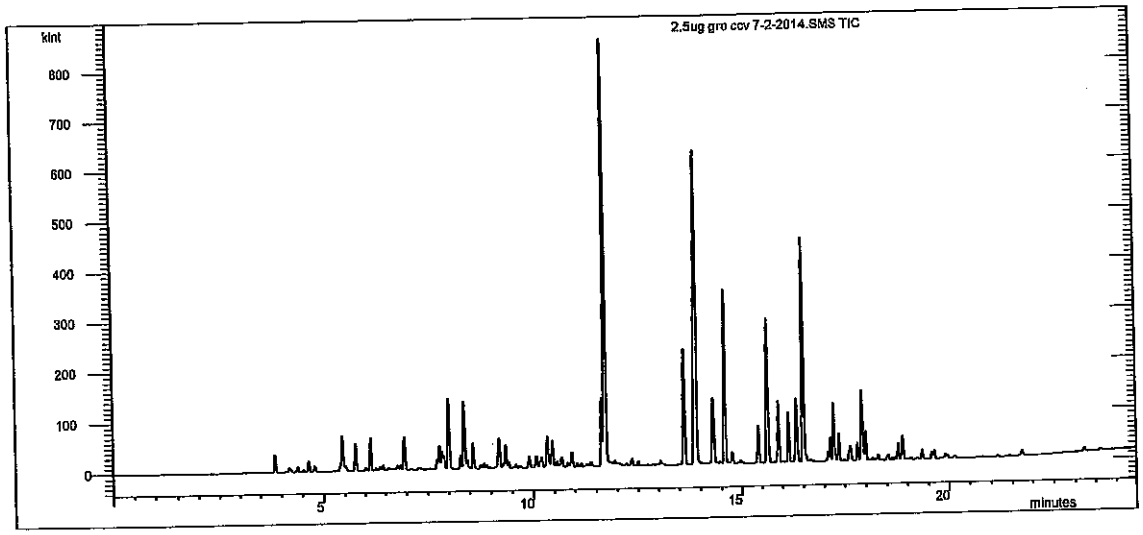
Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1199	Identified	86505	50.000
GRO	11.000	904	Identified	1.245E7	2.803
BFB	16.339	1379	Identified	90241	51.984

```
**********************************************************
Revision Log
**********************************************************

7/2/2014 9:18 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:19 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

8260B/624 Report

Sample Name:	2.5ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 8:53:43 AM
Calculation Date:	7/2/2014 9:18:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.989	635	Identified	59809	50.000
Benzene-d5-, chloro-	14.308	1199	Identified	87110	50.000
1,4-Dichlorobenzene-d4	17.912	1520	Identified	48929	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	379	Missing		N/A
Acetone	5.446	410	Identified	224696	286.657
Carbon disulfide	5.411	407	Missing		N/A
Iodomethane	5.604	424	Identified	525	25.609
Methyl tert-butyl ether (MTBE)	5.763	438	Missing		N/A
Isopropyl ether	6.322	487	Missing		N/A
tert-Butyl alcohol	6.631	515	Failed	3483	37.900
trans-1,2-DCE	6.730	524	Missing		N/A
tert-Butyl ethyl ether	6.812	531	Missing		N/A
1,1-Dichloroethane	7.189	564	Missing		N/A
Methylene Chloride	7.290	573	Identified	8016	1.085
Vinyl Acetate	7.299	574	Identified	734	3.295
2,2-Dichloropropane	7.469	589	Missing		N/A
2-Butanone	7.556	597	Identified	5269	16.309
1,1,1-Trichloroethane	8.325	665	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	669	Missing		N/A
1,1-Dichloropropene	8.399	671	Missing		N/A
Carbon Tetrachloride	8.628	692	Missing		N/A
cis-1,2-DCE	9.047	729	Missing		N/A
Benzene	9.189	742	Identified	58875	29.256
Chloroform	9.604	779	Missing		N/A
Bromochloromethane	10.070	821	Failed	1882	4.455
Trichloroethene (TCE)	10.203	832	Missing		N/A
Dibromofluoromethane	10.331	844	Identified	81844	46.167
1,2-Dichloroethane-d4	10.446	854	Identified	233963	43.939
1,2-Dichloroethane (EDC)	10.554	863	Missing		N/A
1,2-Dichloropropane	10.781	884	Missing		N/A
4-Methyl-2-pentanone	10.877	893	Missing		N/A
Toluene-d8	11.633	960	Identified	147399	44.569
Toluene	11.713	967	Identified	1.055E6	241.205
2-Chloroethyl vinyl ether	11.978	992	Missing		N/A
Tetrachloroethene (PCE)	12.187	1011	Missing		N/A
cis-1,3-dichloropropene	12.189	1011	Missing		N/A
2-Hexanone	12.217	1013	Identified	2173	1.596
Bromodichloromethane	12.215	1013	Identified	1627	0.480
Dibromomethane	12.364	1027	Missing		N/A
1,3-Dichloropropane	13.266	1107	Missing		N/A
trans-1,3-dichloropropene	13.328	1112	Missing		N/A
Ethylbenzene	13.612	1138	Identified	260194	51.312
mp-Xylenes	13.877	1161	Identified	850373	185.188
1,1,2-Trichloroethane	14.080	1179	Missing		N/A
Chlorobenzene	14.341	1202	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1207	Missing		N/A
o-Xylene	14.579	1223	Identified	345423	76.446
1,1,1,2-Tetrachloroethane	14.722	1236	Missing		N/A
Dibromochloromethane	14.752	1239	Missing		N/A
Isopropylbenzene	14.770	1240	Identified	14709	3.107
Styrene	15.164	1276	Failed	593	0.270
n-Propylbenzene	15.406	1297	Identified	80216	12.988
1,3,5-Trimethylbenzene	15.897	1340	Identified	91987	20.930
tert-Butylbenzene	16.103	1358	Missing		N/A
2-Chlorotoluene	16.252	1372	Missing		N/A
4-Bromofluorobenzene	16.339	1379	Identified	90602	46.794
sec-Butylbenzene	16.364	1382	Identified	2653	1.256
4-Chlorotoluene	16.418	1386	Missing		N/A
Bromobenzene	16.458	1390	Missing		N/A
1,2,4-Trimethylbenzene	16.495	1393	Identified	334402	75.372
4-Isopropyltoluene	16.658	1408	Identified	2791	0.414
Bromoform	17.002	1438	Missing		N/A
1,2,3-Trichloropropane	17.173	1454	Missing		N/A
n-Butylbenzene	17.282	1463	Failed	7335	1.720
1,1,2,2-Tetrachloroethane	17.595	1491	Missing		N/A
1,3-Dichlorobenzene	17.677	1499	Missing		N/A
1,4-Dichlorobenzene	17.950	1523	Missing		N/A
1,2-Dichlorobenzene	18.557	1577	Missing		N/A

Operator: Rene Aguilera

Inj. Notes: V-18-2044

2.5ug gro ccv 7-2-2014.SMS
7/2/2014 9:18

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1720	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1746	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1783	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1864	Missing		N/A
Naphthalene	21.738	1863	Identified	12591	4.575
2-Methylnaphthalene	23.224	1999	Identified	5439	2.855
1-Methylnaphthalene	23.612	2034	Identified	2447	1.538

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Revision Log
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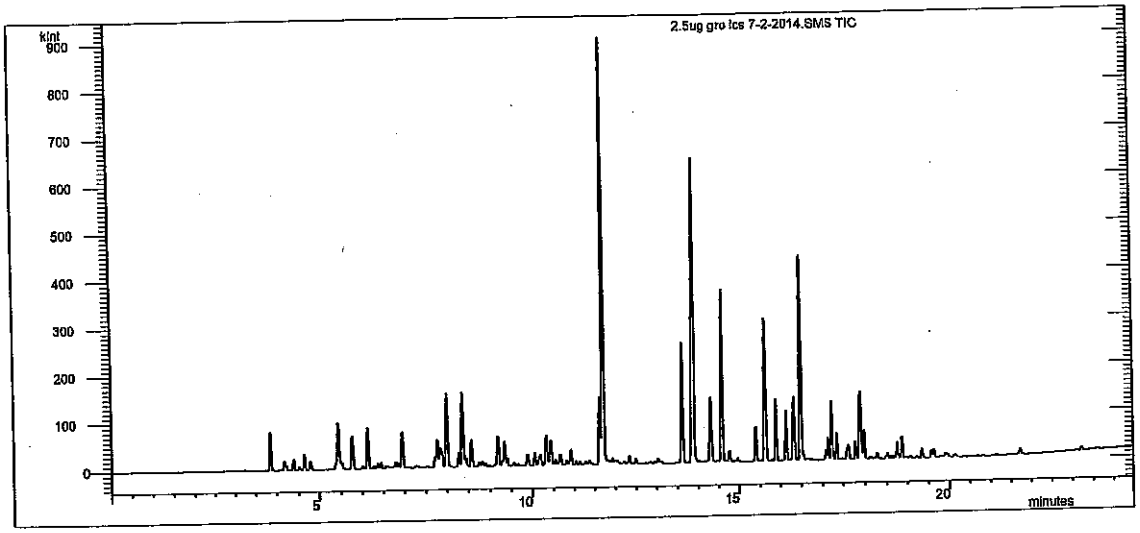
7/2/2014 9:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

8015D MOD GRO

Sample Name:	2.5ug gro lcs	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2036	**Acquisition Date:**	7/2/2014 9:21:42 AM
Calculation Date:	7/2/2014 9:51:59 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.299	1202	Identified	87993	50.000
GRO	11.000	905	Identified	1.313E7	2.926
BFB	16.331	1382	Identified	92963	52.646

117% Pass

MT 7.14

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Revision Log
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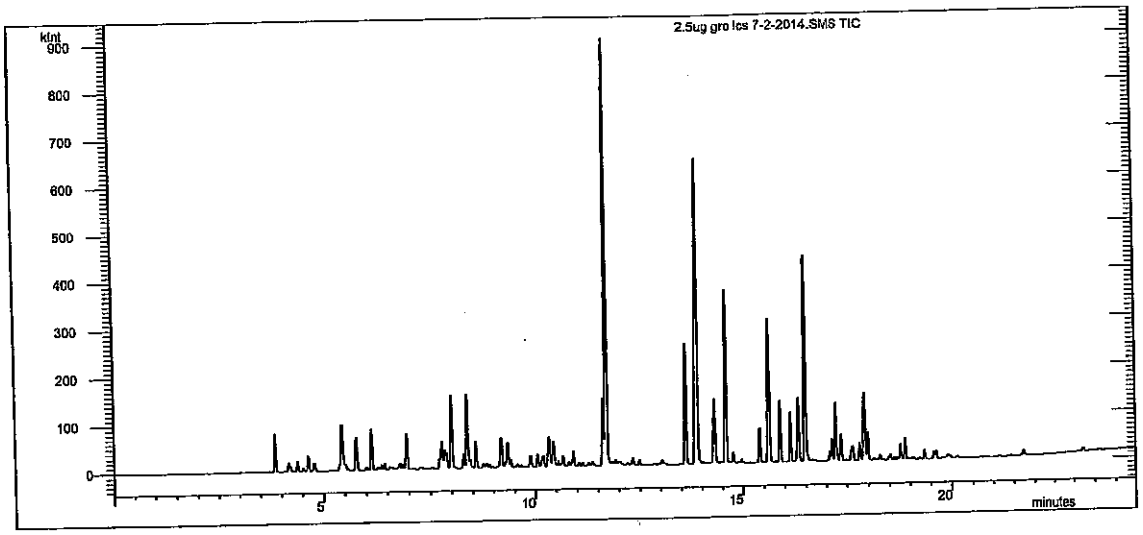
7/2/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:51 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070114v GRO.mth'

NB 7/3/14

8260B/624 Report

Sample Name:	2.5ug gro lcs	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2036	**Acquisition Date:**	7/2/2014 9:21:42 AM
Calculation Date:	7/2/2014 9:46:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.987	635	Identified	61707	50.000
Benzene-d5-, chloro-	14.299	1202	Identified	88818	50.000
1,4-Dichlorobenzene-d4	17.903	1522	Identified	49548	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.228	213	Identified	1660	4.505
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	379	Missing		N/A
Acetone	5.444	409	Identified	338635	419.191
Carbon disulfide	5.411	407	Missing		N/A
Iodomethane	5.597	423	Identified	601	25.796
Methyl tert-butyl ether (MTBE)	5.763	438	Missing		N/A
Isopropyl ether	6.322	488	Missing		N/A
tert-Butyl alcohol	6.638	516	Identified	3999	38.815
trans-1,2-DCE	6.730	524	Missing		N/A
tert-Butyl ethyl ether	6.812	532	Missing		N/A
1,1-Dichloroethane	7.189	565	Missing		N/A
Methylene Chloride	7.289	574	Identified	8077	0.979
Vinyl Acetate	7.362	580	Missing		N/A
2,2-Dichloropropane	7.469	590	Missing		N/A
2-Butanone	7.547	597	Identified	6340	17.182
1,1,1-Trichloroethane	8.325	666	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	670	Missing		N/A
1,1-Dichloropropene	8.399	672	Missing		N/A
Carbon Tetrachloride	8.628	693	Missing		N/A
cis-1,2-DCE	9.047	730	Missing		N/A
Benzene	9.184	742	Identified	63598	30.641
Chloroform	9.661	785	Identified	587	0.614
Bromochloromethane	10.052	820	Failed	1423	3.137
Trichloroethene (TCE)	10.203	833	Missing		N/A
Dibromofluoromethane	10.325	844	Identified	82215	45.032
1,2-Dichloroethane-d4	10.439	855	Identified	229825	42.086
1,2-Dichloroethane (EDC)	10.554	865	Missing		N/A
1,2-Dichloropropane	10.781	885	Missing		N/A
4-Methyl-2-pentanone	10.877	894	Missing		N/A
Toluene-d8	11.624	962	Identified	152067	45.087
Toluene	11.705	969	Identified	1.113E6	249.767
2-Chloroethyl vinyl ether	11.978	993	Missing		N/A
Tetrachloroethene (PCE)	12.187	1013	Missing		N/A
cis-1,3-dichloropropene	12.189	1013	Missing		N/A
2-Hexanone	12.211	1015	Identified	1890	1.424
Bromodichloromethane	12.257	1019	Missing		N/A
Dibromomethane	12.364	1029	Missing		N/A
1,3-Dichloropropane	13.266	1109	Missing		N/A
trans-1,3-dichloropropene	13.328	1115	Missing		N/A
Ethylbenzene	13.604	1139	Identified	270001	52.227
mp-Xylenes	13.870	1162	Identified	873546	186.580
1,1,2-Trichloroethane	14.080	1182	Missing		N/A
Chlorobenzene	14.341	1205	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1211	Missing		N/A
o-Xylene	14.572	1226	Identified	353030	76.628
1,1,1,2-Tetrachloroethane	14.722	1239	Missing		N/A
Dibromochloromethane	14.752	1242	Missing		N/A
Isopropylbenzene	14.763	1243	Identified	11613	2.344
Styrene	15.155	1278	Failed	552	0.246
n-Propylbenzene	15.398	1300	Identified	81310	13.001
1,3,5-Trimethylbenzene	15.889	1343	Identified	94321	21.195
tert-Butylbenzene	16.103	1362	Missing		N/A
2-Chlorotoluene	16.252	1375	Missing		N/A
4-Bromofluorobenzene	16.331	1382	Identified	93102	47.514
sec-Butylbenzene	16.356	1384	Identified	2502	1.205
4-Chlorotoluene	16.418	1390	Missing		N/A
Bromobenzene	16.458	1393	Missing		N/A
1,2,4-Trimethylbenzene	16.487	1396	Identified	343068	76.363
4-Isopropyltoluene	16.648	1410	Identified	2405	0.325
Bromoform	17.002	1441	Missing		N/A
1,2,3-Trichloropropane	17.173	1457	Missing		N/A
n-Butylbenzene	17.272	1466	Failed	6886	1.602
1,1,2,2-Tetrachloroethane	17.595	1495	Missing		N/A
1,3-Dichlorobenzene	17.677	1502	Missing		N/A
1,4-Dichlorobenzene	17.950	1526	Missing		N/A
1,2-Dichlorobenzene	18.557	1580	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1722	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1748	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1784	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1865	Missing		N/A
Naphthalene	21.729	1864	Identified	12637	4.541
2-Methylnaphthalene	23.214	2000	Identified	5863	2.993
1-Methylnaphthalene	23.601	2035	Identified	2539	1.563

****
Revision Log
****

7/2/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

√ WB & 7/8/14

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-009
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 7/3							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Toluene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Naphthalene	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Acetone	ND	0.75		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Bromobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Bromoform	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Bromomethane	0.079	0.15	J	mg/Kg	1	R19656	7/2/2014 7:39:38 PM
2-Butanone	ND	0.50		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Chloroethane	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Chloroform	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Chloromethane	ND	0.15		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Dibromomethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 7/3

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
2-Hexanone	ND	0.50		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Methylene chloride	0.011	0.15	J	mg/Kg	1	R19656	7/2/2014 7:39:38 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Styrene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R19656	7/2/2014 7:39:38 PM
Surr: Dibromofluoromethane	112	70-130		%REC	1	R19656	7/2/2014 7:39:38 PM
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	R19656	7/2/2014 7:39:38 PM
Surr: Toluene-d8	90.0	70-130		%REC	1	R19656	7/2/2014 7:39:38 PM
Surr: 4-Bromofluorobenzene	85.2	70-130		%REC	1	R19656	7/2/2014 7:39:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

✓ JB 7/3/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1406D88**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001
Client Sample ID: FFOR-CF-0001
Collection Date: 6/30/2014 10:29:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Toluene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Ethylbenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Xylenes, Total	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2,4-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,3,5-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2-Dichloroethane (EDC)	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2-Dibromoethane (EDB)	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Naphthalene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Acetone	0.0184	0.00665		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Bromobenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Bromodichloromethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Bromoform	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Bromomethane	ND	0.00332		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
2-Butanone	ND	0.00665		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Carbon tetrachloride	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Chlorobenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Chloroethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Chloroform	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Chloromethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
2-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Carbon disulfide	ND	0.00665		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
4-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
cis-1,2-DCE	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
cis-1,3-Dichloropropene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2-Dibromo-3-chloropropane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Dibromochloromethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Dibromomethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,3-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,4-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Dichlorodifluoromethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1-Dichloroethane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1-Dichloroethene	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,3-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
2,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Hexachlorobutadiene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Isopropylbenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
4-Isopropyltoluene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Methylene chloride	ND	0.00332	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
n-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
2-Hexanone	ND	0.00665	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
n-Propylbenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
sec-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Styrene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
4-Methyl-2-pentanone	ND	0.00665	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
tert-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1,1,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1,2,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Tetrachloroethene (PCE)	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
trans-1,2-DCE	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
trans-1,3-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2,3-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2,4-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1,1-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,1,2-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Trichloroethene (TCE)	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Trichlorofluoromethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
1,2,3-Trichloropropane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Vinyl chloride	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Vinyl acetate	ND	0.00665	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Bromochloromethane	ND	0.00133	mg/Kg-dry	1	14008	7/1/2014 11:36:21 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	14008	7/1/2014 11:36:21 PM
Surr: 4-Bromofluorobenzene	102	65.3-135	%REC	1	14008	7/1/2014 11:36:21 PM
Surr: Dibromofluoromethane	103	70-130	%REC	1	14008	7/1/2014 11:36:21 PM
Surr: Toluene-d8	99.3	70-130	%REC	1	14008	7/1/2014 11:36:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-002
Collection Date: 6/30/2014 10:36:00 AM
Client Sample ID: FFOR-CF-0002
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Toluene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Ethylbenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Xylenes, Total	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Methyl tert-butyl ether (MTBE)	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2,4-Trimethylbenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,3,5-Trimethylbenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2-Dichloroethane (EDC)	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2-Dibromoethane (EDB)	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Naphthalene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Acetone	0.0127	0.00678		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Bromobenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Bromodichloromethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Bromoform	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Bromomethane	ND	0.00339		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
2-Butanone	ND	0.00678		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Carbon tetrachloride	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Chlorobenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Chloroethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Chloroform	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Chloromethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
2-Chlorotoluene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Carbon disulfide	ND	0.00678		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
4-Chlorotoluene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
cis-1,2-DCE	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
cis-1,3-Dichloropropene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2-Dibromo-3-chloropropane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Dibromochloromethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Dibromomethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2-Dichlorobenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,3-Dichlorobenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,4-Dichlorobenzene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Dichlorodifluoromethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1-Dichloroethane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1-Dichloroethene	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2-Dichloropropane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,3-Dichloropropane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
2,2-Dichloropropane	ND	0.00136		mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Hexachlorobutadiene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Isopropylbenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
4-Isopropyltoluene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Methylene chloride	ND	0.00339	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
n-Butylbenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
2-Hexanone	ND	0.00678	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
n-Propylbenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
sec-Butylbenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Styrene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
4-Methyl-2-pentanone	ND	0.00678	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
tert-Butylbenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1,1,2-Tetrachloroethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1,2,2-Tetrachloroethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Tetrachloroethene (PCE)	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
trans-1,2-DCE	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
trans-1,3-Dichloropropene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2,3-Trichlorobenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2,4-Trichlorobenzene	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1,1-Trichloroethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,1,2-Trichloroethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Trichloroethene (TCE)	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Trichlorofluoromethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
1,2,3-Trichloropropane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Vinyl chloride	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Vinyl acetate	ND	0.00678	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Bromochloromethane	ND	0.00136	mg/Kg-dry	1	14008	7/2/2014 12:06:10 AM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	14008	7/2/2014 12:06:10 AM
Surr: 4-Bromofluorobenzene	97.3	65.3-135	%REC	1	14008	7/2/2014 12:06:10 AM
Surr: Dibromofluoromethane	107	70-130	%REC	1	14008	7/2/2014 12:06:10 AM
Surr: Toluene-d8	99.0	70-130	%REC	1	14008	7/2/2014 12:06:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-003
Collection Date: 6/30/2014 10:46:00 AM
Client Sample ID: FFOR-CF-0003
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Toluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Ethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Xylenes, Total	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Methyl tert-butyl ether (MTBE)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2,4-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,3,5-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2-Dichloroethane (EDC)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2-Dibromoethane (EDB)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Naphthalene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Acetone	0.0183	0.00662		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Bromobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Bromodichloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Bromoform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Bromomethane	ND	0.00331		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
2-Butanone	ND	0.00662		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Carbon tetrachloride	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Chlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Chloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Chloroform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Chloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
2-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Carbon disulfide	ND	0.00662		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
4-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
cis-1,2-DCE	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
cis-1,3-Dichloropropene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2-Dibromo-3-chloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Dibromochloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Dibromomethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,3-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,4-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Dichlorodifluoromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1-Dichloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1-Dichloroethene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,3-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
2,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Hexachlorobutadiene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Isopropylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
4-Isopropyltoluene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Methylene chloride	ND	0.00331	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
n-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
2-Hexanone	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
n-Propylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
sec-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Styrene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
4-Methyl-2-pentanone	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
tert-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1,1,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1,2,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Tetrachloroethene (PCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
trans-1,2-DCE	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
trans-1,3-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2,3-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2,4-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1,1-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,1,2-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Trichloroethene (TCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Trichlorofluoromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
1,2,3-Trichloropropane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Vinyl chloride	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Vinyl acetate	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Bromochloromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 12:35:55 AM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	14008	7/2/2014 12:35:55 AM
Surr: 4-Bromofluorobenzene	98.8	65.3-135	%REC	1	14008	7/2/2014 12:35:55 AM
Surr: Dibromofluoromethane	104	70-130	%REC	1	14008	7/2/2014 12:35:55 AM
Surr: Toluene-d8	95.0	70-130	%REC	1	14008	7/2/2014 12:35:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-004
Client Sample ID: FFOR-CF-0004
Collection Date: 6/30/2014 10:55:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Toluene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Ethylbenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Xylenes, Total	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Methyl tert-butyl ether (MTBE)	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2,4-Trimethylbenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,3,5-Trimethylbenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2-Dichloroethane (EDC)	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2-Dibromoethane (EDB)	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Naphthalene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Acetone	ND	0.00610		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Bromobenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Bromodichloromethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Bromoform	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Bromomethane	ND	0.00305		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
2-Butanone	ND	0.00610		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Carbon tetrachloride	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Chlorobenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Chloroethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Chloroform	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Chloromethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
2-Chlorotoluene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Carbon disulfide	ND	0.00610		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
4-Chlorotoluene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
cis-1,2-DCE	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
cis-1,3-Dichloropropene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2-Dibromo-3-chloropropane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Dibromochloromethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Dibromomethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2-Dichlorobenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,3-Dichlorobenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,4-Dichlorobenzene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Dichlorodifluoromethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1-Dichloroethane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1-Dichloroethene	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2-Dichloropropane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,3-Dichloropropane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
2,2-Dichloropropane	ND	0.00122		mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Hexachlorobutadiene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Isopropylbenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
4-Isopropyltoluene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Methylene chloride	ND	0.00305	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
n-Butylbenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
2-Hexanone	ND	0.00610	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
n-Propylbenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
sec-Butylbenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Styrene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
4-Methyl-2-pentanone	ND	0.00610	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
tert-Butylbenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1,1,2-Tetrachloroethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1,2,2-Tetrachloroethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Tetrachloroethene (PCE)	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
trans-1,2-DCE	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
trans-1,3-Dichloropropene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2,3-Trichlorobenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2,4-Trichlorobenzene	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1,1-Trichloroethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,1,2-Trichloroethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Trichloroethene (TCE)	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Trichlorofluoromethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
1,2,3-Trichloropropane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Vinyl chloride	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Vinyl acetate	ND	0.00610	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Bromochloromethane	ND	0.00122	mg/Kg-dry	1	14008	7/2/2014 1:05:36 AM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	14008	7/2/2014 1:05:36 AM
Surr: 4-Bromofluorobenzene	99.1	65.3-135	%REC	1	14008	7/2/2014 1:05:36 AM
Surr: Dibromofluoromethane	97.0	70-130	%REC	1	14008	7/2/2014 1:05:36 AM
Surr: Toluene-d8	95.3	70-130	%REC	1	14008	7/2/2014 1:05:36 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1406D88
Project: Kirtland AFB

Lab ID: 1406D88-005 **Collection Date:** 6/30/2014 11:43:00 AM
Client Sample ID: FFOR-CF-0005 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Toluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Ethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Xylenes, Total	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Methyl tert-butyl ether (MTBE)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2,4-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,3,5-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2-Dichloroethane (EDC)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2-Dibromoethane (EDB)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Naphthalene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Acetone	0.00721	0.00662		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Bromobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Bromodichloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Bromoform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Bromomethane	ND	0.00331		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
2-Butanone	ND	0.00662		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Carbon tetrachloride	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Chlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Chloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Chloroform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Chloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
2-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Carbon disulfide	ND	0.00662		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
4-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
cis-1,2-DCE	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
cis-1,3-Dichloropropene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2-Dibromo-3-chloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Dibromochloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Dibromomethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,3-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,4-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Dichlorodifluoromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1-Dichloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1-Dichloroethene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,3-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
2,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Hexachlorobutadiene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Isopropylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
4-Isopropyltoluene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Methylene chloride	ND	0.00331	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
n-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
2-Hexanone	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
n-Propylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
sec-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Styrene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
4-Methyl-2-pentanone	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
tert-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1,1,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1,2,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Tetrachloroethene (PCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
trans-1,2-DCE	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
trans-1,3-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2,3-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2,4-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1,1-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,1,2-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Trichloroethene (TCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Trichlorofluoromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
1,2,3-Trichloropropane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Vinyl chloride	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Vinyl acetate	ND	0.00662	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Bromochloromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 1:35:13 AM
Surr: 1,2-Dichloroethane-d4	117	70-130	%REC	1	14008	7/2/2014 1:35:13 AM
Surr: 4-Bromofluorobenzene	99.7	65.3-135	%REC	1	14008	7/2/2014 1:35:13 AM
Surr: Dibromofluoromethane	94.2	70-130	%REC	1	14008	7/2/2014 1:35:13 AM
Surr: Toluene-d8	101	70-130	%REC	1	14008	7/2/2014 1:35:13 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1406D88**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-006
Client Sample ID: FFOR-CF-0006
Collection Date: 6/30/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Benzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Toluene	0.00264	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Ethylbenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Xylenes, Total	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Methyl tert-butyl ether (MTBE)	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2,4-Trimethylbenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,3,5-Trimethylbenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2-Dichloroethane (EDC)	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2-Dibromoethane (EDB)	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Naphthalene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Acetone	0.0328	0.00687		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Bromobenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Bromodichloromethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Bromoform	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Bromomethane	ND	0.00344		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
2-Butanone	ND	0.00687		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Carbon tetrachloride	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Chlorobenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Chloroethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Chloroform	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Chloromethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
2-Chlorotoluene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Carbon disulfide	ND	0.00687		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
4-Chlorotoluene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
cis-1,2-DCE	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
cis-1,3-Dichloropropene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2-Dibromo-3-chloropropane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Dibromochloromethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Dibromomethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,3-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,4-Dichlorobenzene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Dichlorodifluoromethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1-Dichloroethane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1-Dichloroethene	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2-Dichloropropane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,3-Dichloropropane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
2,2-Dichloropropane	ND	0.00137		mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Hexachlorobutadiene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Isopropylbenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
4-Isopropyltoluene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Methylene chloride	ND	0.00344	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
n-Butylbenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
2-Hexanone	ND	0.00687	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
n-Propylbenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
sec-Butylbenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Styrene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
4-Methyl-2-pentanone	ND	0.00687	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
tert-Butylbenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1,1,2-Tetrachloroethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1,2,2-Tetrachloroethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Tetrachloroethene (PCE)	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
trans-1,2-DCE	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
trans-1,3-Dichloropropene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2,3-Trichlorobenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2,4-Trichlorobenzene	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1,1-Trichloroethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,1,2-Trichloroethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Trichloroethene (TCE)	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Trichlorofluoromethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
1,2,3-Trichloropropane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Vinyl chloride	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Vinyl acetate	ND	0.00687	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Bromochloromethane	ND	0.00137	mg/Kg-dry	1	14008	7/2/2014 2:04:59 AM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	14008	7/2/2014 2:04:59 AM
Surr: 4-Bromofluorobenzene	107	65.3-135	%REC	1	14008	7/2/2014 2:04:59 AM
Surr: Dibromofluoromethane	101	70-130	%REC	1	14008	7/2/2014 2:04:59 AM
Surr: Toluene-d8	103	70-130	%REC	1	14008	7/2/2014 2:04:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-007
Client Sample ID: FFOR-CF-0007
Collection Date: 6/30/2014 2:52:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Toluene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Ethylbenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Xylenes, Total	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Methyl tert-butyl ether (MTBE)	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2,4-Trimethylbenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,3,5-Trimethylbenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2-Dichloroethane (EDC)	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2-Dibromoethane (EDB)	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Naphthalene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Acetone	0.0101	0.00671		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Bromobenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Bromodichloromethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Bromoform	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Bromomethane	ND	0.00335		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
2-Butanone	ND	0.00671		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Carbon tetrachloride	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Chlorobenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Chloroethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Chloroform	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Chloromethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
2-Chlorotoluene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Carbon disulfide	ND	0.00671		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
4-Chlorotoluene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
cis-1,2-DCE	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
cis-1,3-Dichloropropene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2-Dibromo-3-chloropropane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Dibromochloromethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Dibromomethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2-Dichlorobenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,3-Dichlorobenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,4-Dichlorobenzene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Dichlorodifluoromethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1-Dichloroethane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1-Dichloroethene	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2-Dichloropropane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,3-Dichloropropane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
2,2-Dichloropropane	ND	0.00134		mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Hexachlorobutadiene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Isopropylbenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
4-Isopropyltoluene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Methylene chloride	ND	0.00335	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
n-Butylbenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
2-Hexanone	ND	0.00671	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
n-Propylbenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
sec-Butylbenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Styrene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
4-Methyl-2-pentanone	ND	0.00671	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
tert-Butylbenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1,1,2-Tetrachloroethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1,2,2-Tetrachloroethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Tetrachloroethene (PCE)	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
trans-1,2-DCE	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
trans-1,3-Dichloropropene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2,3-Trichlorobenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2,4-Trichlorobenzene	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1,1-Trichloroethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,1,2-Trichloroethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Trichloroethene (TCE)	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Trichlorofluoromethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
1,2,3-Trichloropropane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Vinyl chloride	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Vinyl acetate	ND	0.00671	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Bromochloromethane	ND	0.00134	mg/Kg-dry	1	14008	7/2/2014 2:34:40 AM
Surr: 1,2-Dichloroethane-d4	119	70-130	%REC	1	14008	7/2/2014 2:34:40 AM
Surr: 4-Bromofluorobenzene	96.5	65.3-135	%REC	1	14008	7/2/2014 2:34:40 AM
Surr: Dibromofluoromethane	103	70-130	%REC	1	14008	7/2/2014 2:34:40 AM
Surr: Toluene-d8	102	70-130	%REC	1	14008	7/2/2014 2:34:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-008
Client Sample ID: FFOR-CF-0008
Collection Date: 6/30/2014 2:58:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL IIIDUE 07/03/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Toluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Ethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Xylenes, Total	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Methyl tert-butyl ether (MTBE)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2,4-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,3,5-Trimethylbenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2-Dichloroethane (EDC)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2-Dibromoethane (EDB)	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Naphthalene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Acetone	0.00867	0.00660		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Bromobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Bromodichloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Bromoform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Bromomethane	ND	0.00330		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
2-Butanone	ND	0.00660		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Carbon tetrachloride	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Chlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Chloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Chloroform	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Chloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
2-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Carbon disulfide	ND	0.00660		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
4-Chlorotoluene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
cis-1,2-DCE	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
cis-1,3-Dichloropropene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2-Dibromo-3-chloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Dibromochloromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Dibromomethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,3-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,4-Dichlorobenzene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Dichlorodifluoromethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1-Dichloroethane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1-Dichloroethene	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,3-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
2,2-Dichloropropane	ND	0.00132		mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL IIIDUE 07/03/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Hexachlorobutadiene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Isopropylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
4-Isopropyltoluene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Methylene chloride	ND	0.00330	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
n-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
2-Hexanone	ND	0.00660	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
n-Propylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
sec-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Styrene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
4-Methyl-2-pentanone	ND	0.00660	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
tert-Butylbenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1,1,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1,2,2-Tetrachloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Tetrachloroethene (PCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
trans-1,2-DCE	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
trans-1,3-Dichloropropene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2,3-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2,4-Trichlorobenzene	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1,1-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,1,2-Trichloroethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Trichloroethene (TCE)	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Trichlorofluoromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
1,2,3-Trichloropropane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Vinyl chloride	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Vinyl acetate	ND	0.00660	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Bromochloromethane	ND	0.00132	mg/Kg-dry	1	14008	7/2/2014 3:04:22 AM
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	1	14008	7/2/2014 3:04:22 AM
Surr: 4-Bromofluorobenzene	96.4	65.3-135	%REC	1	14008	7/2/2014 3:04:22 AM
Surr: Dibromofluoromethane	99.1	70-130	%REC	1	14008	7/2/2014 3:04:22 AM
Surr: Toluene-d8	101	70-130	%REC	1	14008	7/2/2014 3:04:22 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1;1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

RT 7-7-14

✓ NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

RA 7-7-14

JB 7/8/14

Analyst: RAA

ampleList: C:\VarianWS\070214v.smp

reated: Wed Jul 02 07:39:35 2014
odified: Wed Jul 02 15:22:32 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-1994	
2	5mL-rb	below tune @ 8:25
	Notes All injections contain V-52-0458	
3	2.5ug gro ccv	below @ 8:53
	Notes V-18-2044	
4	2.5ug gro lcs	below
	Notes V-18-2036	
5	50ng ccv	below @ 9:49
	Notes V-54-0428	
6	200ng annex ccv	below
	Notes V-11-8029	
7	100ng lcs	below
	Notes V-11-8033	
8	vcb	none tune @ 11:13
9	handoff 1406b35-001a	below
	Notes x1-50mL AIR	LF
10	1406b35-001a dup	below
	Notes x1-50mL AIR	
11	1406b35-002a	below
	Notes x1-50mL AIR	
12	1406b35-003a	below
	Notes x1-50mL AIR	
13	1406b35-004a	below
	Notes x1-50mL AIR	
14	1407077-001a	below
	Notes x1-5mL AXIS	
15	1407077-001a ms	below
	Notes V-11-8033	
16	1407077-001a msd	below
	Notes V-11-8033	
17	1407077-002a	below
	Notes x1-5mL AXIS TB	
18	1406d88-001a	below
	Notes x1-100uL MeOH GRO	
19	1406d88-002a	below
	Notes x1-100uL MeOH GRO	
20	1406d88-003a	below
	Notes x1-100uL MeOH GRO	
21	1406d88-004a	below
	Notes x1-100uL MeOH GRO	
22	1406d88-005a	below
	Notes x1-100uL MeOH GRO	
23	1406d88-006a	below
	Notes x1-100uL MeOH GRO	
24	1406d88-007a	below
	Notes x1-100uL MeOH GRO	
25	1406d88-008a	below
	Notes x1-100uL MeOH GRO	
26	1406d88-009a	below
	Notes x1-100uL MeOH Blk 8260, GRO	
27	1406d88-001a ms	below rr
	Notes x1-100uL MeOH GRO	@ 8:35
28	1406d88-001a msd	below rr
	Notes x1-100uL MeOH GRO	
29	1406c22-011a ms4	below
	RJH 7/3/14 001a Notes V-54-0418	
30	1406c22-011a msd4	below @ 9:31
	7/3/14 001a Notes V-54-0418	
31	rtm	below
	Notes V-18-1994	
32	bl	none tune @ 10:27
33	100ng ccv	below
	Notes V-54-0428	
34	2.25ug gro ccv	below
	Notes V-18-2044	

Loaded By: DA 7-2-14
1st Review By: A 7-3-14 (RJH 7/3/14)
QA'd By: WB 7/3/14

```
                Notes  x1-100uL MeOH GRO
38          1407066-003a      below
                Notes  x1-100uL MeOH GRO
39          1407066-004a      below
                Notes  x1-100uL MeOH GRO
40          1407066-005a      below
                Notes  x1-100uL MeOH GRO
41          1407066-006a      below
                Notes  x1-100uL MeOH GRO
42          1407066-007a      below
                Notes  x1-100uL MeOH GRO
43          1407066-008a      below
                Notes  x1-100uL MeOH Blk 8260, GRO
44          1406d72-001a      below
                Notes  x1-100uL MeOH
45       1406d72-001a ms      below
                Notes  V-11-8033
46      1406d72-001a msd      below
                Notes  V-11-8033
47          1406d72-002a      below
                Notes  x1-100uL MeOH
48          1406d72-003a      below
                Notes  x1-100uL MeOH
49          1406d72-004a      below
                Notes  x1-100uL MeOH
50          1406d72-005a      below
                Notes  x1-100uL MeOH @C:49
51

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070214v.rcl.
```

Loaded By: 7-2-14
1st Review By: 7-3-14 KJH 7/3/14
QA'd By: ✓ JAS 7/3/14

Calibration Summary

Instrument: V6 **Date:** 4-6-14

Calibration Name: 062314V 8260, C24

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☒	☐	VQL = 227.27 ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	2ng Missing PQL: 10ng
Bromomethane	☐	☐	☒	☐	~~2ng Missing~~ PQL = 15ng
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	4ng Missing PQL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : [signature] and [signature]

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VBL = 227+27 ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: RL 6-26-14

QA: [signature] NB 6/26/14

Additional Comments: _____

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\070314v\50ng ccv 7-2-2014.SMS Lab Sample ID: 50ng ccv

Instrument ID: VAL Date Analyzed: 7/2/2014 Time Analyzed: 09:49

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	56594	7.99	87873	14.30	50165	17.91						
UPPER LIMIT	113188	8.49	175746	14.80	100330	18.41						
LOWER LIMIT	28297	7.49	43937	13.80	25083	17.41						
EPA SAMPLE NO												
rtm 7-2-20	62427	7.99	89655	14.31	50284	17.91						
5mL-rb 7-2	55090	7.99	83630	14.30	48646	17.91						
2.5ug gro	59809	7.99	87110	14.31	48929	17.91						
2.5ug gro	61707	7.99	88818	14.30	49548	17.90						
200ng anne	57289	7.99	83835	14.30	47652	17.90						
100ng lcs	56311	7.99	85498	14.30	47448	17.91						
vcb 7-2-20	55310	7.99	80691	14.30	45972	17.90						
1406b35-00	55913	7.99	85928	14.31	47729	17.91						
1406b35-00	55511	7.99	80348	14.30	45944	17.91						
1406b35-00	52716	7.99	77752	14.30	44480	17.91						
1406b35-00	52804	8.00	75976	14.31	44846	17.91						
1406b35-00	52215	8.00	76955	14.31	45017	17.91						
1407077-00	53691	8.00	76852	14.30	42486	17.91						
1407077-00	57035	8.00	85929	14.31	46877	17.91						
1407077-00	57406	8.00	83830	14.30	46609	17.91						
1407077-00	57277	8.00	85340	14.31	46356	17.91						

7/3/14

7/3/14

7/3/2014 9:34

Analyst: RAA

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1406d88-00	39625	8.00	68483	14.31	46375	17.91						
1406d88-00	39117	8.00	65844	14.31	558 D	18.02 D						
1406d88-00	39331	8.00	64910	14.31	46289	17.91						
1406d88-00	38394	8.00	66533	14.31	46033	17.92						
1406d88-00	36503	8.00	61262	14.31	44849	17.92						
1406d88-00	38191	8.00	65343	14.31	45908	17.92						
1406d88-00	38262	8.00	62695	14.31	43711	17.92						
1406d88-00	38363	8.00	64014	14.31	44971	17.91						
1406d88-00	36840	7.99	62033	14.31	43923	17.91						
1406d88-00	36885	7.99	62353	14.31	46182	17.91						
1406d88-00	37340	7.99	63177	14.31	46396	17.91						
1406c22-01	52613	8.00	82383	14.31	44203	17.91						
1406c22-01	55951	7.99	84253	14.31	47176	17.91						
rtm 7-2-20	51152	7.99	75581	14.31	44450	17.91						
b1 7-2-201	54547	7.99	82725	14.31	46555	17.91						
100ng ccv	53687	7.99	82406	14.31	45866	17.91						
2.25ug gro	57982	7.99	83337	14.31	48157	17.91						
vcb2 7-2-2	55285	7.99	83017	14.31	47269	17.91						
1407066-00	43572	7.98	76714	14.30	49919	17.91						
1407066-00	37924	7.98	66939	14.30	48651	17.91						
1407066-00	38886	7.98	68222	14.30	48685	17.91						
1407066-00	37043	7.98	63497	14.30	48477	17.91						
1407066-00	38145	7.99	66414	14.31	48234	17.91						
1407066-00	38258	7.98	68596	14.31	50019	17.91						
1407066-00	36411	7.98	68401	14.31	48173	17.91						
1407066-00	35858	7.98	65886	14.30	47216	17.91						
1406d72-00	37159	7.99	65899	14.31	47856	17.91						
1406d72-00	36754	7.98	65065	14.31	45080	17.91						
1406d72-00	36220	7.98	65844	14.31	46445	17.91						
1406d72-00	36508	7.98	67468	14.31	47651	17.91						
1406d72-00	36241	7.98	66730	14.30	46200	17.91						
1406d72-00	37320	7.98	66030	14.30	47074	17.91						
1406d72-00	36670	7.98	69066	14.30	48503	17.90						

RT 7-3-14

JWB 7/3/14

7/3/2014 9:34

Analyst: RAA

Internal Standard And RT Summary

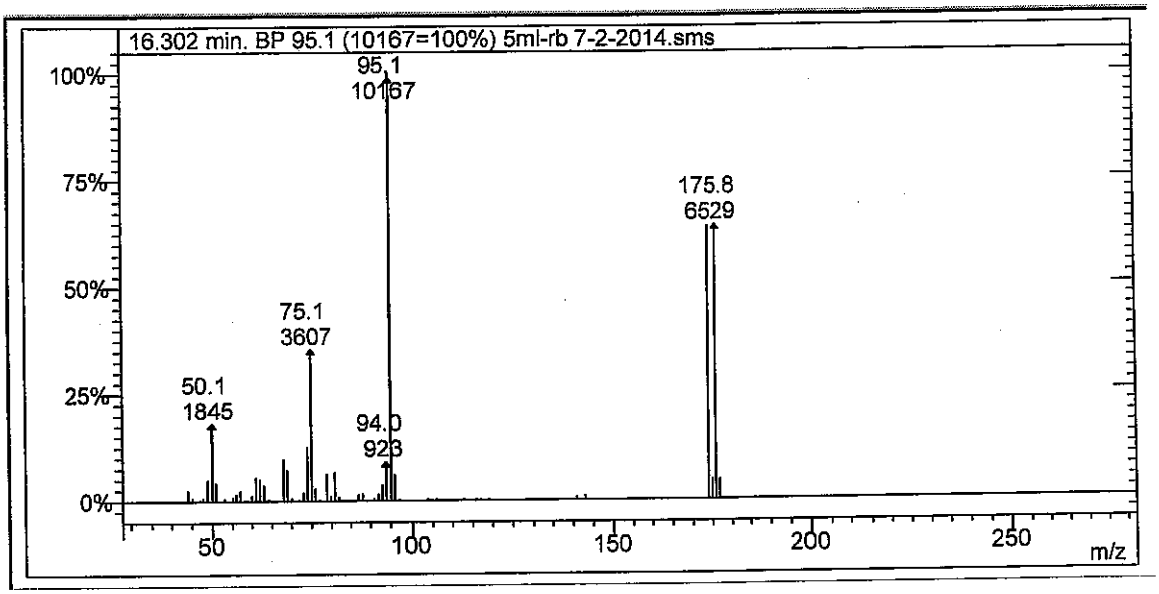
	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "identified".

Analyst: RAA

BFB 8260B Report



Lab File ID: 5ml-rb 7-2-2014.sms

Injection Date: 7/2/2014

Injection Time: 8:25

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.15	PASS
75	30-60% of m/z 95	35.48	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.15	PASS
173	<2% of m/z 174	0.18	PASS
174	>50% of m/z 95	63.85	PASS
175	5-9% of m/z 174	7.19	PASS
176	>95% but <101% of m/z 174	100.57	PASS
177	5-9% of m/z 176	7.15	PASS

KJH 7/3/14

RA 7-3-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): Data\2014v\0614v\062314v all crvs\100ng crv 6-23-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 6/23/2014 Time Analyzed: 16:23

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	60311	8.01	86333	14.31	46092	17.92						
UPPER LIMIT	120622	8.51	172666	14.81	92184	18.42						
LOWER LIMIT	30156	7.51	43167	13.81	23046	17.42						
EPA SAMPLE NO												
50ng ccv 7	56594	7.99	87873	14.30	50165	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

A 7.3.14

✓ JB 7/3/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/2/2014 Time: 9:49

Heated Purge (Y/N): No Initial Cal. Sample Date: 6/23/2014 6/23/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: H:\Val\Data\2014v\0614v\062314v all CRVs\100ng crv 6-23-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.316	0.100	50.00	55.02	-10.0	30.0	PASS	PASS
Chloromethane	0.410	0.100	50.00	44.79	10.4	30.0	PASS	PASS
Vinyl chloride	1.791	0.100	50.00	53.09	-6.2	20.0	PASS	PASS
Chloroethane	0.211	0.100	50.00	47.97	4.1	30.0	PASS	PASS
Bromomethane	0.775	0.100	50.00	62.37	-24.7	30.0	PASS	PASS
Trichlorofluoromethane	0.939	0.100	50.00	53.26	-6.5	30.0	PASS	PASS
1,1-Dichloroethene	1.364	0.100	50.00	50.63	-1.3	20.0	PASS	PASS
Acetone	0.559	0.100	100.00	84.55	15.4	40.0	PASS	PASS
Carbon disulfide	1.234	0.100	100.00	112.25	-12.2	40.0	PASS	PASS
Iodomethane	0.204	0.100	100.00	99.58	0.4	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.567	0.100	100.00	110.64	-10.6	30.0	PASS	PASS
Isopropyl ether	1.846	0.100	100.00	121.00	-21.0	40.0	PASS	PASS
tert-Butyl alcohol	0.322	0.100	1000.00	927.38	7.3	40.0	PASS	PASS
trans-1,2-DCE	1.609	0.100	50.00	55.81	-11.6	30.0	PASS	PASS
tert-Butyl ethyl ether	3.505	0.100	100.00	117.92	-17.9	40.0	PASS	PASS
1,1-Dichloroethane	1.701	0.100	50.00	52.71	-5.4	30.0	PASS	PASS
Methylene Chloride	1.836	0.100	50.00	58.06	-16.1	30.0	PASS	PASS
Vinyl Acetate	2.257	0.100	100.00	87.61	12.4	40.0	PASS	PASS
2,2-Dichloropropane	1.034	0.100	50.00	56.34	-12.7	30.0	PASS	PASS
2-Butanone	0.540	0.100	100.00	75.09	24.9	40.0	PASS	PASS
1,1,1-Trichloroethane	1.689	0.100	50.00	56.74	-13.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.740	0.100	100.00	111.48	-11.5	40.0	PASS	PASS
1,1-Dichloropropene	0.848	0.100	50.00	59.26	-18.5	30.0	PASS	PASS
Carbon Tetrachloride	3.375	0.100	50.00	56.23	-12.5	30.0	PASS	PASS
cis-1,2-DCE	2.019	0.100	50.00	54.07	-8.1	30.0	PASS	PASS
Benzene	1.837	0.100	50.00	54.78	-9.6	30.0	PASS	PASS
Chloroform	1.147	0.100	50.00	55.45	-10.9	20.0	PASS	PASS
Bromochloromethane	0.394	0.100	50.00	61.30	-22.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.122	0.100	50.00	62.16	-24.3	30.0	PASS	PASS
Dibromofluoromethane	1.461	0.100	50.00	49.08	1.8	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.264	0.100	50.00	47.43	5.1	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.732	0.100	50.00	53.66	-7.3	30.0	PASS	PASS
1,2-Dichloropropane	2.037	0.100	50.00	55.11	-10.2	20.0	PASS	PASS
4-Methyl-2-pentanone	2.087	0.100	100.00	101.79	-1.8	40.0	PASS	PASS
Toluene-d8	1.665	0.100	50.00	43.87	12.3	30.0	PASS	PASS

7/2/2014 10:28

Analyst: RAA

M 7.3.14

✓ DB 7/3/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.657	0.100	50.00	52.69	-5.4	20.0	PASS	PASS
2-Chloroethyl vinyl ether	1.027	0.100	100.00	131.25	-31.3	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.330	0.100	50.00	55.52	-11.0	30.0	PASS	PASS
cis-1,3-dichloropropene	2.033	0.100	50.00	49.69	0.6	30.0	PASS	PASS
2-Hexanone	1.009	0.100	100.00	95.33	4.7	40.0	PASS	PASS
Bromodichloromethane	2.342	0.100	50.00	50.07	-0.1	30.0	PASS	PASS
Dibromomethane	1.185	0.100	50.00	52.20	-4.4	30.0	PASS	PASS
1,3-Dichloropropane	1.605	0.100	50.00	51.84	-3.7	30.0	PASS	PASS
trans-1,3-dichloropropene	0.874	0.100	50.00	53.76	-7.5	30.0	PASS	PASS
Ethylbenzene	3.011	0.100	50.00	51.72	-3.4	20.0	PASS	PASS
mp-Xylenes	2.770	0.100	100.00	104.85	-4.9	30.0	PASS	PASS
1,1,2-Trichloroethane	1.750	0.100	50.00	50.60	-1.2	30.0	PASS	PASS
Chlorobenzene	1.324	0.300	50.00	51.69	-3.4	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.519	0.100	50.00	51.07	-2.1	30.0	PASS	PASS
o-Xylene	2.755	0.100	50.00	53.01	-6.0	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.401	0.100	50.00	53.90	-7.8	30.0	PASS	PASS
Dibromochloromethane	1.287	0.100	50.00	52.10	-4.2	30.0	PASS	PASS
Isopropylbenzene	2.649	0.100	50.00	52.76	-5.5	30.0	PASS	PASS
Styrene	1.276	0.100	50.00	51.04	-2.1	30.0	PASS	PASS
n-Propylbenzene	6.161	0.100	50.00	48.85	2.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.432	0.100	50.00	49.63	0.7	30.0	PASS	PASS
tert-Butylbenzene	4.987	0.100	50.00	49.69	0.6	30.0	PASS	PASS
2-Chlorotoluene	1.596	0.100	50.00	52.61	-5.2	30.0	PASS	PASS
4-Bromofluorobenzene	1.756	0.100	50.00	44.26	11.5	30.0	PASS	PASS
sec-Butylbenzene	3.323	0.100	50.00	46.24	7.5	30.0	PASS	PASS
4-Chlorotoluene	1.568	0.100	50.00	47.12	5.8	30.0	PASS	PASS
Bromobenzene	1.462	0.100	50.00	51.73	-3.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.553	0.100	50.00	50.10	-0.2	30.0	PASS	PASS
4-Isopropyltoluene	4.929	0.100	50.00	51.56	-3.1	30.0	PASS	PASS
Bromoform	1.633	0.100	50.00	43.69	12.6	30.0	PASS	PASS
1,2,3-Trichloropropane	1.380	0.100	50.00	46.37	7.3	30.0	PASS	PASS
n-Butylbenzene	4.514	0.100	50.00	48.55	2.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.572	0.300	50.00	42.20	15.6	30.0	PASS	PASS
1,3-Dichlorobenzene	2.087	0.100	50.00	49.95	0.1	30.0	PASS	PASS
1,4-Dichlorobenzene	2.045	0.100	50.00	50.74	-1.5	30.0	PASS	PASS
1,2-Dichlorobenzene	2.044	0.100	50.00	49.30	1.4	30.0	PASS	PASS
Hexachlorobutadiene	4.815	0.100	50.00	48.71	2.6	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.784	0.100	50.00	41.97	16.1	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.612	0.100	50.00	50.36	-0.7	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.660	0.100	50.00	50.74	-1.5	30.0	PASS	PASS
Naphthalene	2.847	0.100	50.00	43.66	12.7	30.0	PASS	PASS
2-Methylnaphthalene	2.326	0.100	50.00	45.39	9.2	40.0	PASS	PASS
1-Methylnaphthalene	2.231	0.100	50.00	46.13	7.7	40.0	PASS	PASS

7-3-14

✓ 7/3/14

Analyst: RAA

ampleList: C:\AgilentWS\070114m.smp

reated: Tue Jul 01 10:23:21 2014
odified: Tue Jul 01 15:49:26 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	10ppb ccv	below
	Notes V-54-0429	
4	10ppb lcs	below
	Notes V-11-8032	
5	10ppb ccv	below
	Notes V-54-0429	
6	10ppb lcs1	below
	Notes V-11-8032	
7	10ppb ccv3	below
	Notes V-54-0427	
8	10ppb lcs2	below
	Notes V-11-8032	
9	vcb	none
10	b3	none
11	b4	none
12	b5	none
13		
14	0.4ppb 5035 crv	below
	Notes V-54-0432	
15	1ppb 5035 crv	below
	Notes V-54-0432	
16	2ppb 5035 crv	below
	Notes V-54-0432	
17	3ppb 5035 crv	below
	Notes V-54-0432	
18	5ppb 5035 crv	below
	Notes V-54-0432	
19	10ppb 5035 crv	below
	Notes V-54-0432	
20	20ppb 5035 crv	below
	Notes V-54-0432	
21	50ppb 5035 crv	below
	Notes V-54-0432	
22	100ppb 5035 crv	below
	Notes V-54-0432	
23	b6	none
24	b7	none
25	10ppb 5035 icv	below
26	Notes V-54-0427	
27	b8	none
28	mb-14008	none
29	1406d88-001a	below
	Notes x1 low level pb14008	
30	1406d88-002a	below
	Notes x1 low level pb14008	
31	1406d88-003a	below
	Notes x1 low level pb14008	
32	1406d88-004a	below
	Notes x1 low level pb14008	
33	1406d88-005a	below
	Notes x1 low level pb14008	
34	1406d88-006a	below
	Notes x1 low level pb14008	
35	1406d88-007a	below
	Notes x1 low level pb14008	
36	1406d88-008a	below
	Notes x1 low level pb14008	
37	1406d88-001ams	below
	Notes x1 low level V-11-8032 pb14008	
38	1406d88-001amsd	below
	Notes x1 low level V-11-8032 pb14008	
39		

hand calc

@4:09

@4:03

Loaded By: 7-1-14
1st Review By: 7-2-14
QA'd By: NB 7/3/14

ctory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

e and update a new RecalcList: c:\agilentws\070114m.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): .ta\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
b3 7-1-201	35608	7.14	49136	13.46	17710	17.04						
b4 7-1-201	34798	7.14	45637	13.46	17034	17.04						
b5 7-1-201	37124	7.14	49316	13.46	17789	17.04						
0.4ppb 503	36440	7.14	48679	13.46	17704	17.04						
1ppb 5035	34222	7.14	43862	13.46	16477	17.04						
2ppb 5035	34472	7.14	46863	13.46	17715	17.04						
3ppb 5035	35306	7.14	47378	13.46	18075	17.04						
5ppb 5035	34967	7.14	50204	13.45	18464	17.04						
20ppb 5035	35982	7.14	50834	13.45	18528	17.03						
50ppb 5035	41869	7.14	53034 D	13.45 D	21049	17.04						
100ppb 503	42972	7.14	60676	13.45	22503	17.04						
b6 7-1-201	37347	7.14	52245	13.46	20293	17.04						
b7 7-1-201	35153	7.14	48100	13.45	18006	17.04						
10ppb 5035	40628	7.14	56008	13.46	20503	17.04						
b8 7-1-201	33650	7.14	46905	13.45	17588	17.04						
mb-14008 7	38084	7.14	51528	13.45	18232	17.04						

7-2-14

7/3/14

7/2/2014 8:40

Internal Standard And RT Summary

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1406d88-00	32125	7.14	42665	13.45	15586	17.03						
1406d88-00	20326	7.14	28639	13.45	10564	17.03						
1406d88-00	35021	7.14	49381	13.45	18585	17.03						
1406d88-00	30024	7.14	39658	13.45	14545	17.03						
1406d88-00	41935	7.14	56978	13.45	21021	17.03						
1406d88-00	21055	7.14	27361	13.45	9420	17.03						
1406d88-00	25218	7.14	34370	13.45	13376	17.03						
1406d88-00	21662	7.14	28445	13.45	10725	17.03						
1406d88-00	37773	7.14	57446	13.45	22183	17.03						
1406d88-00	41814	7.14	58606	13.45	21401	17.04						
b9 7-2-201	47204	7.14	60616	13.45	23784	17.03						

cg 7-2-14

JB 7/3/14

IS 1 = Pentafluorobenzene

IS 2 = Benzene-d5-, chloro-

IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b5 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: Mercury Injection Time: 16:09

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	24.8	
75	30-60% of m/z 95	50.9	
95	base peak	100.0	
96	5-9% of m/z 95	6.8	
173	<2% of m/z 174	0.2 (0.3)	174
174	>50% of m/z 95	63.3	
175	5-9% of m/z 174	4.5 (7.2)	174
176	>95% but <101% of m/z 174	63.6 (100.5)	174
177	5-9% of m/z 176	4.5 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3	b5 7-1-201	b5	h:\mercury_gcms\data\2014\0714m\07011 4m crv\b5 7-1-2014.SMS	7/1/2014 16:09
4	0.4ppb 503	0.4ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\0.4ppb 5035 crv 7-1-2014.SMS	7/1/2014 16:39
5	1ppb 5035	1ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\1ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:09
6	2ppb 5035	2ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\2ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:39
7	3ppb 5035	3ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\3ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:08
8	5ppb 5035	5ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\5ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:38
9	10ppb 5035	10ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:08
10	20ppb 5035	20ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\20ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:38
11	50ppb 5035	50ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\50ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:08
12	100ppb 503	100ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\100ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:37
13	10ppb 5035	10ppb 5035 icv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 icv 7-1-2014.SMS	7/1/2014 22:07

7-2-14

WB 7/3/14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 7/1/2014 7/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:37 20:37

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC	RRF9
Dichlorodifluoromethane	2.650	3.043	2.913	2.692	2.960	2.603	2.637	2.259	0.9988	2.680	9.8	PASS	PASS	2.360
Chloromethane	9.899	8.842	8.562	9.925	12.743	12.476	12.583	11.369	0.9971	10.762	14.9	PASS	PASS	10.463
Vinyl chloride	7.828	8.912	10.357	11.833	16.335	15.002	14.517	12.296	0.9982	12.235	23.2	PASS	PASS	13.032
Chloroethane	1.076	1.130	1.208	1.486	1.884	2.379	2.354	2.411	0.9996	1.828	33.3	PASS	PASS	2.525

Analyst: cadg

7/3/14

7-2-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	5.530	2.834	2.077	2.340	2.468	3.063	3.591	4.888	0.9999	3.710	43.0	PASS	PASS
6.595													
Trichlorofluoromethane	2.273	2.528	2.647	2.683	3.035	2.852	2.802	2.882	0.9990	2.754	9.2	PASS	PASS
3.079													
1,1-Dichloroethene	3.782	5.113	6.083	6.557	7.405	7.164	7.155	7.230	0.9997	6.446	19.6	PASS	PASS
7.528													
Acetone	5.263	3.719	2.696	2.708	3.078	3.101	3.688	4.388	0.9998	3.747	25.9	PASS	PASS
5.085													
Carbon disulfide	5.743	6.318	6.291	6.191	6.421	6.119	5.336	5.167	0.9997	5.857	8.9	PASS	PASS
5.131													
Iodomethane	9.949	6.154	6.026	6.416	7.243	10.069	10.665	13.997	0.9997	8.815	32.2	PASS	PASS
Methyl tert-butyl ether (MTBE)	6.917	7.809	7.614	7.799	8.160	6.797	5.197		0.9991	7.185	14.0	PASS	PASS
Isopropyl ether	21.282	29.554	33.754	35.993	38.103	37.037	33.654	32.199	0.9987	32.697	16.4	PASS	PASS
tert-Butyl alcohol	0.851	0.785	0.784	0.863	0.737	0.657			0.9903	0.779	9.8	PASS	PASS
trans-1,2-DCE	7.392	10.164	12.336	13.235	14.602	14.683	13.783	14.433	0.9997	12.839	19.8	PASS	PASS
14.926													
tert-Butyl ethyl ether	80.062	111.746	122.673	122.219	124.479	119.775	102.941	91.625	0.9951	109.440	15.1	PASS	PASS
Methylene Chloride	9.541	9.295	9.309	9.315	9.326	9.667	8.661	8.561	0.9984	9.066	6.3	PASS	PASS
7.916													
1,1-Dichloroethane			0.510	0.577	0.873	2.056	3.394	5.423	0.9996	2.139	91.3	PASS	PASS

Analyst: cadg

NB 7/3/14

cdg 7.2.14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Vinyl acetate 17.475	9.614	10.679	11.502	13.604	17.457	19.550	19.387	18.143	0.9990	15.268	25.7	PASS	PASS
2,2-Dichloropropane	3.119	2.328	2.677	2.154	2.033	1.299			0.9950	2.268	27.2	PASS	PASS
2-Butanone 9.729	5.459	5.602	5.052	5.584	6.024	7.587	9.087	9.013	0.9988	7.015	26.3	PASS	PASS
1,1,1-Trichloroethane 4.872	4.515	4.375	4.723	4.926	4.959	4.812	4.488	4.282	0.9966	4.661	5.4	PASS	PASS
1,1-Dichloropropene 7.724	7.845	7.588	7.829	7.781	7.718	7.634	7.625	7.403	0.9996	7.683	1.8	PASS	PASS
tert-Amyl methyl ether	32.005	33.403	34.734	34.734	34.357	34.249	32.256	28.329	0.9964	33.008	6.6	PASS	PASS
Carbon Tetrachloride 1.920	1.520	1.666	1.949	1.884	2.063	1.987	1.937	1.799	0.9990	1.858	9.2	PASS	PASS
cis-1,2-DCE 3.003	2.254	2.665	2.761	2.792	2.893	2.929	2.894	2.886	0.9997	2.786	8.0	PASS	PASS
Benzene 10.202	9.429	10.172	9.981	10.092	10.400	10.282	9.959	9.706	0.9995	10.025	3.0	PASS	PASS
Chloroform 5.564	3.362	3.393	4.264	4.378	4.778	4.946	5.138	5.222	0.9992	4.560	17.2	PASS	PASS
Bromochloromethane 3.955	4.274	3.513	4.459	4.181	4.354	4.175	3.941	3.814	0.9996	4.074	7.3	PASS	PASS
Trichloroethene (TCE) 16.196	17.334	16.146	16.465	15.987	17.237	16.125	15.889	15.339	0.9994	16.302	3.9	PASS	PASS
Dibromofluoromethane 3.294	2.504	2.504	2.794	2.888	3.196	3.081	3.408	3.342	0.8940	3.001	11.6	PASS	PASS

Analyst: cadg

7/3/14 7.2.14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,2-Dichloroethane-d4 11.113	10.120	10.272	11.023	11.294	11.589	10.993	11.571	11.126	0.9812	11.011	4.6	PASS	PASS
1,2-Dichloroethane (EDC) 66.710	32.522	37.065	48.575	59.852	65.669	66.193	67.103	63.797	0.9996	56.387	24.1	PASS	PASS
1,2-Dichloropropane 18.607	10.544	12.963	16.234	18.592	20.441	19.833	19.466	18.168	0.9997	17.205	19.6	PASS	PASS
4-Methyl-2-pentanone 6.397	5.468	6.516	6.902	7.139	6.720	6.613	6.573	6.895	0.9988	6.580	7.2	PASS	PASS
Toluene-d8 1.750	1.869	1.836	1.896	1.974	1.897	1.848	1.876	1.941	0.9897	1.876	3.4	PASS	PASS
Toluene 10.492	12.074	11.527	11.168	11.794	11.505	10.788	10.565	11.082	0.9993	11.221	4.9	PASS	PASS
2-Chloroethyl vinyl ether	4.210	4.726	6.320	7.409	7.940	7.602	7.070	5.379	0.9999	6.332	22.3	PASS	PASS
cis-1,3-dichloropropene 17.450	15.208	14.865	16.368	17.167	17.283	16.648	16.028	17.834	0.9996	16.539	6.2	PASS	PASS
Bromodichloromethane 2.870	2.520	2.756	2.977	3.144	3.229	3.133	2.953	3.143	0.9981	2.970	7.6	PASS	PASS
2-Hexanone 18.281	11.725	17.377	18.526	20.154	19.368	18.240	18.545	18.829	0.9998	17.894	13.6	PASS	PASS
Tetrachloroethene (PCE) 3.063	3.261	3.286	3.135	3.205	3.306	3.028	2.882	3.141	0.9997	3.145	4.4	PASS	PASS
Dibromomethane	5.789	5.894	6.068	6.338	6.300	5.782	5.540	5.317	0.9995	5.879	6.0	PASS	PASS
1,3-Dichloropropane 5.661	5.130	5.517	5.826	6.303	6.087	6.124	5.717	6.053	0.9990	5.824	6.2	PASS	PASS

Analyst: cadg

CG 7.2.14

JWB 7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.401	3.071	3.157	3.096	3.232	3.251	3.027	3.350	0.9992	3.084	8.9	PASS	PASS
3.174													
Ethylbenzene	12.587	12.638	12.419	12.688	12.431	12.667	11.886	12.465	0.9998	12.491	2.0	PASS	PASS
12.638													
mp-Xylenes	11.351	11.312	11.042	11.217	10.865	11.038	10.422	10.810	0.9999	10.979	2.7	PASS	PASS
10.753													
1,1,2-Trichloroethane	6.932	7.662	7.553	7.431	7.815	7.647	6.756	6.770	0.9993	7.321	5.9	PASS	PASS
Chlorobenzene	5.668	5.704	5.536	5.487	5.719	5.729	5.160	5.615	0.9996	5.593	3.3	PASS	PASS
5.717													
1,2-Dibromoethane (EDB)	1.902	1.851	1.928	1.934	2.021	1.907	1.734	1.566	0.9972	1.855	7.7	PASS	PASS
o-Xylene	11.322	11.552	11.420	11.496	11.392	11.731	10.666	11.073	0.9997	11.331	2.7	PASS	PASS
11.329													
Dibromochloromethane	1.585	1.621	1.659	1.691	1.647	1.720	1.567	1.563	0.9997	1.619	4.1	PASS	PASS
1.516													
1,1,1,2-Tetrachloroethane	2.568	2.643	2.733	2.780	2.689	2.700	2.494	2.512	0.9998	2.619	4.4	PASS	PASS
2.451													
Isopropylbenzene	11.312	11.491	11.136	11.088	11.112	11.037	10.409	11.113	0.9996	11.127	2.8	PASS	PASS
11.447													
Styrene	5.156	5.479	5.501	5.548	5.361	5.588	5.163	5.825	0.9992	5.517	5.1	PASS	PASS
6.029													
n-Propylbenzene	40.688	39.222	37.934	37.169	38.296	37.932	37.978	36.500	0.9984	38.408	3.5	PASS	PASS
39.949													
1,3,5-Trimethylbenzene	30.514	28.942	28.010	26.950	27.505	27.890	27.243	26.485	0.9977	28.112	4.6	PASS	PASS
29.467													

Analyst: cadg

cg 7.2.14

WB 7/3/14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
tert-Butylbenzene 32.979	32.820	33.756	32.074	31.650	32.313	31.221	31.166	30.632	0.9989	32.068	3.1	PASS	PASS
2-Chlorotoluene 9.568	10.218	10.341	9.373	9.385	9.736	9.698	8.895	9.167	0.9995	9.598	4.9	PASS	PASS
4-Bromofluorobenzene 2.708	2.493	2.507	2.478	2.430	2.564	2.494	2.621	2.822	0.9787	2.568	4.9	PASS	PASS
Bromobenzene	50.466	49.545	46.982	43.961	44.607	44.479	40.567	38.660	0.9991	44.908	9.1	PASS	PASS
4-Chlorotoluene 97.208	68.220	67.718	64.643	64.415	62.511	66.824	66.971	76.709	1.0000	70.580	15.2	PASS	PASS
sec-Butylbenzene 42.830	45.619	42.600	39.677	38.159	38.123	39.574	35.912	39.320	0.9979	40.202	7.4	PASS	PASS
1,2,4-Trimethylbenzene 94.464	93.130	93.803	89.576	86.971	87.634	88.282	85.339	88.728	0.9990	89.770	3.6	PASS	PASS
4-Isopropyltoluene 31.555	32.692	32.667	30.913	29.412	31.268	30.020	28.723	29.180	0.9986	30.714	4.8	PASS	PASS
Bromoform 12.782	10.925	11.341	11.579	11.609	11.922	11.443	11.224	12.292	0.9993	11.680	4.9	PASS	PASS
1,2,3-Trichloropropane 14.042	13.965	15.425	14.206	14.728	13.936	13.823	13.428	14.211	0.9999	14.196	4.1	PASS	PASS
n-Butylbenzene 48.767	54.768	57.590	52.370	49.245	50.841	49.240	47.315	48.387	0.9999	50.947	6.6	PASS	PASS
1,1,2,2-Tetrachloroethane 48.474	45.724	46.759	47.019	48.421	47.391	46.901	46.057	46.996	0.9997	47.082	2.0	PASS	PASS
1,3-Dichlorobenzene 12.975	13.681	13.118	12.990	13.135	13.022	12.747	11.803	12.653	0.9996	12.903	3.9	PASS	PASS

Analyst: cadg

cg 7.2.14

✓ NB 7/3/14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,4-Dichlorobenzene 12.232	13.113	12.425	11.471	11.610	12.379	12.079	11.578	11.938	0.9998	12.092	4.3	PASS	PASS
1,2-Dichlorobenzene 12.334	13.309	13.233	12.258	12.492	12.545	12.186	11.610	12.360	0.9999	12.481	4.2	PASS	PASS
Hexachlorobutadiene 28.425	31.750	30.181	27.493	27.553	29.591	26.930	27.489	27.684	0.9998	28.566	5.6	PASS	PASS
1,2-Dibromo-3-chloropropane 13.716	12.040	13.736	12.377	13.373	12.857	12.021	12.422	12.652	0.9985	12.799	5.2	PASS	PASS
1,2,4-Trichlorobenzene 37.222	38.851	40.230	37.023	36.775	37.932	36.006	36.196	36.904	0.9999	37.460	3.6	PASS	PASS
Naphthalene 19.670	14.930	16.127	16.707	16.292	16.630	17.015	17.617	18.276	0.9988	17.029	8.0	PASS	PASS
1,2,3-Trichlorobenzene 29.944	34.907	36.343	33.955	32.310	34.452	33.711	32.595	30.281	0.9997	33.167	6.3	PASS	PASS
2-Methylnaphthalene 38.020	22.964	24.456	26.278	27.719	29.675	34.003	34.656	36.934	0.9997	30.523	18.2	PASS	PASS
1-Methylnaphthalene 50.416	35.968	36.282	39.915	41.846	44.355	47.656	48.987	49.103	0.9999	43.836	12.8	PASS	PASS
										Average %RSD	11.2		

cg 7-2-14

JWB 7/3/14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

Ran auto on a different instrument cg 7-2-14

JB 7/3/14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

cdg 7.2.14

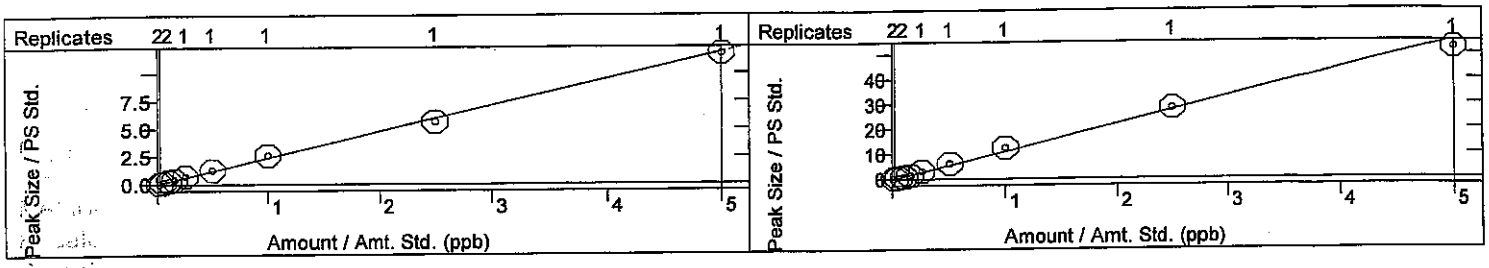
✓ JB 7/3/14

Analyst: cadg

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

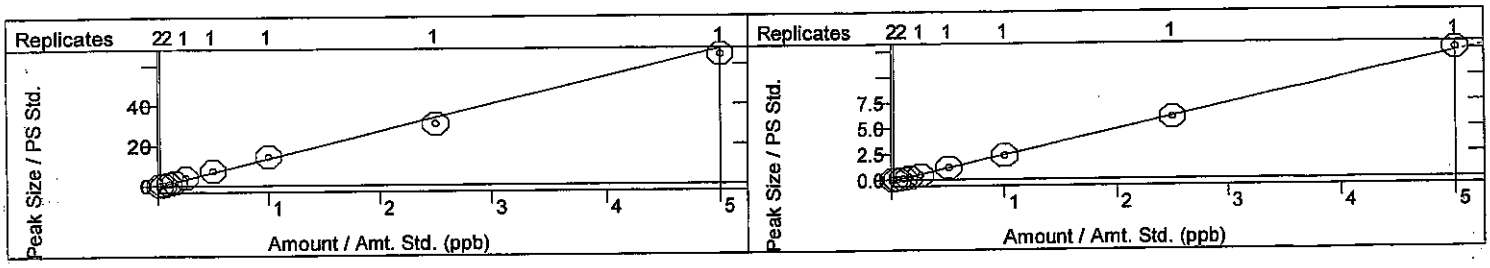
Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.810%, Coeff. Det.(r2): 0.998845
y = +2.3792x +0.0287

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.91%, Coeff. Det.(r2): 0.997109
y = +11.0759x -0.0299



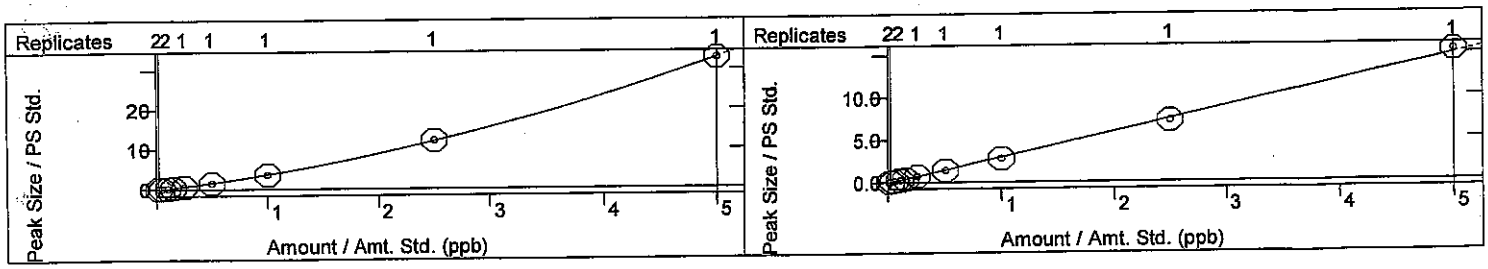
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 23.20%, Coeff. Det.(r2): 0.998154
y = +13.6650x -0.1366

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.30%, Coeff. Det.(r2): 0.999587
y = +2.4706x -0.0613



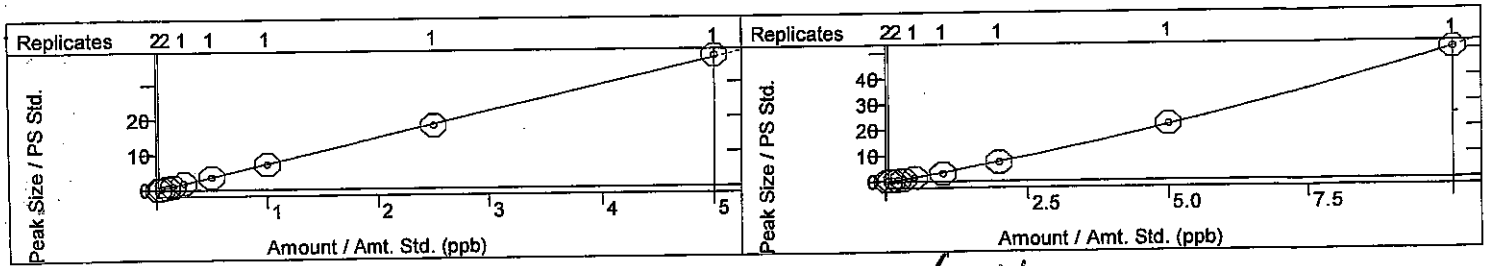
Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 42.95%, Coeff. Det.(r2): 0.999906
y = +0.6980x2 +3.1328x -0.1096

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.192%, Coeff. Det.(r2): 0.999006
y = +2.9920x -0.0228



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.58%, Coeff. Det.(r2): 0.999671
y = +7.4264x -0.0936

Acetone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 25.93%, Coeff. Det.(r2): 0.999774
y = +0.1488x2 +3.6265x -0.2303



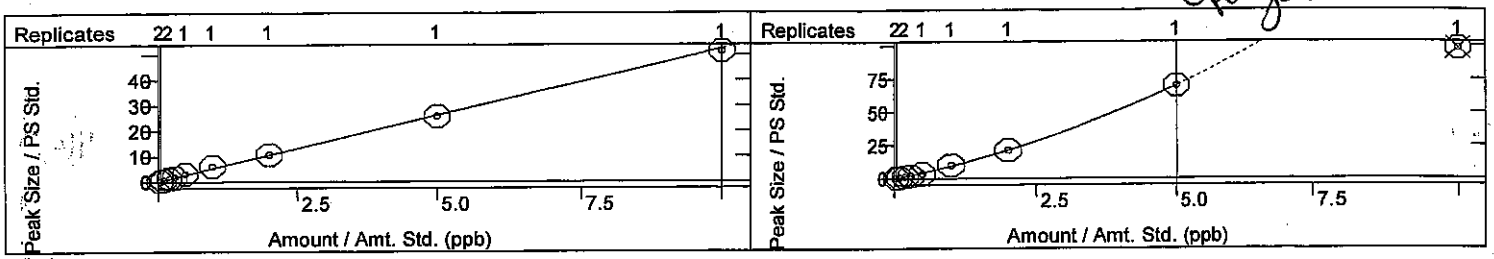
NB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.923%, Coeff. Det.(r2): 0.999693
y = +5.2268x +0.1204

Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 32.15%, Coeff. Det.(r2): 0.999696
y = +1.0511x2 +8.8298x -0.4374

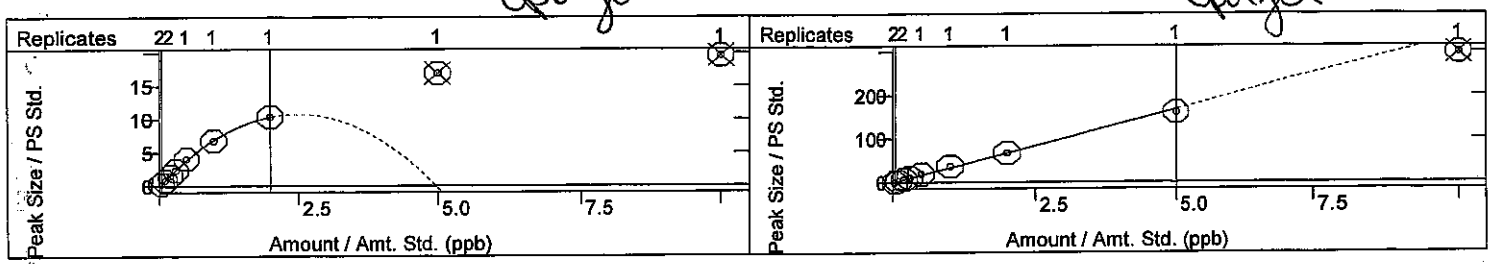
cpd fit



Methyl tert-butyl ether (MTBE)
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.00%, Coeff. Det.(r2): 0.999119
y = -1.7584x2 +8.7436x -0.0752

Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.40%, Coeff. Det.(r2): 0.998750
y = +33.5836x -0.1508

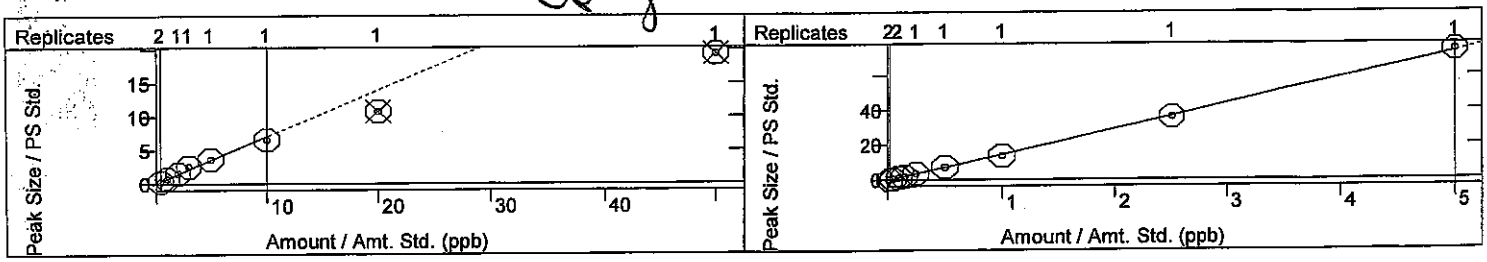
cpd fit cpd fit



tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.788%, Coeff. Det.(r2): 0.990256
y = +0.6955x +0.1088

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.77%, Coeff. Det.(r2): 0.999660
y = +14.7326x -0.1808

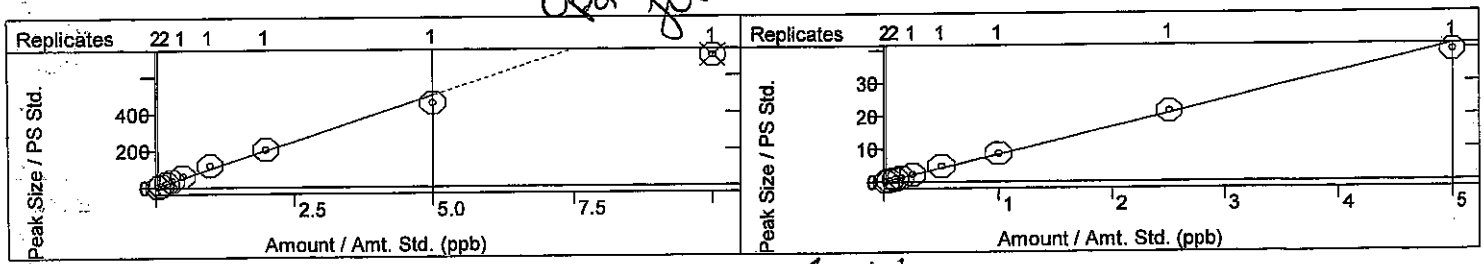
cpd fit



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.05%, Coeff. Det.(r2): 0.995126
y = +99.3256x +1.7204

Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.252%, Coeff. Det.(r2): 0.998417
y = +8.2659x +0.0763

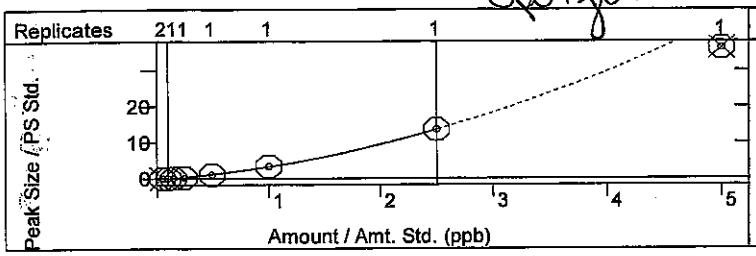
cpd fit



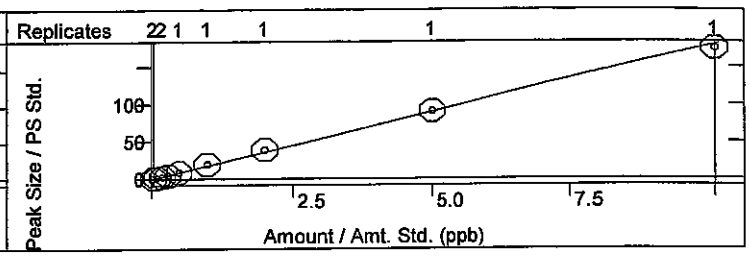
JB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

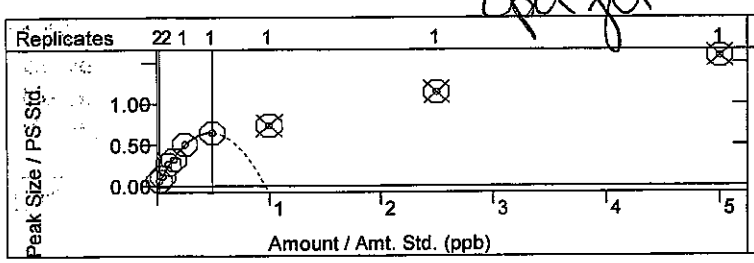
1,1-Dichloroethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 91.29%, Coeff. Det.(r2): 0.999571
y = +1.2977x2 +2.3108x -0.3199



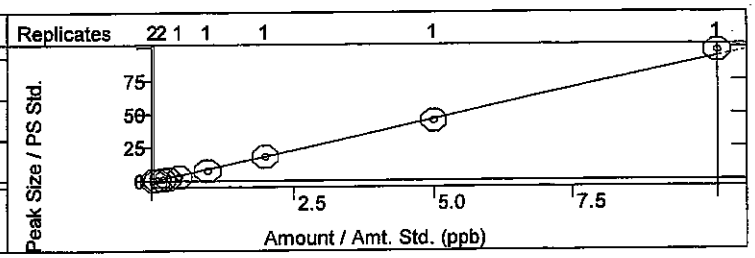
Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.70%, Coeff. Det.(r2): 0.999009
y = +18.0300x -0.5274



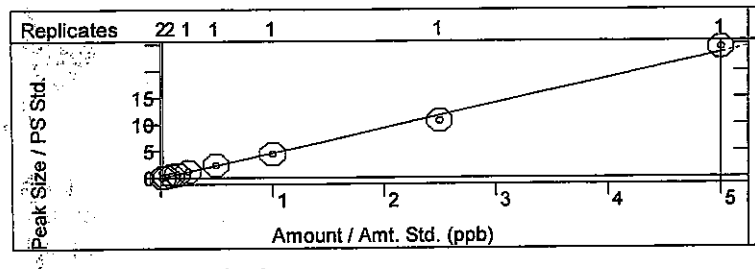
2,2-Dichloropropane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.19%, Coeff. Det.(r2): 0.994996
y = -2.7875x2 +2.6865x +0.0038



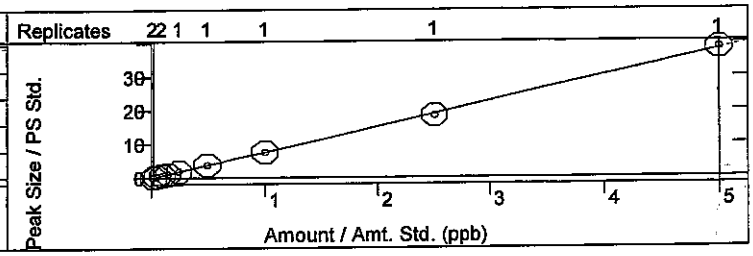
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 26.32%, Coeff. Det.(r2): 0.998812
y = +9.3294x -0.4419



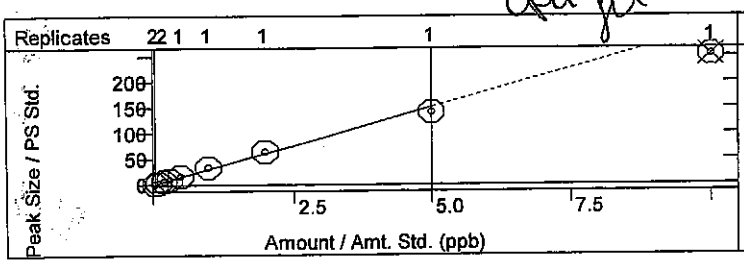
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.402%, Coeff. Det.(r2): 0.996627
y = +4.6740x -0.0012



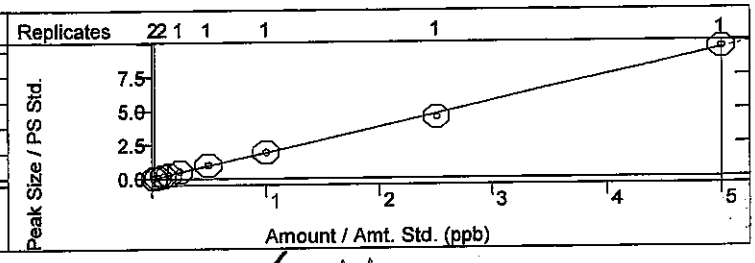
1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.802%, Coeff. Det.(r2): 0.999620
y = +7.6209x +0.0059



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.571%, Coeff. Det.(r2): 0.996388
y = +30.1644x +0.4837



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.165%, Coeff. Det.(r2): 0.999016
y = +1.8988x -0.0039

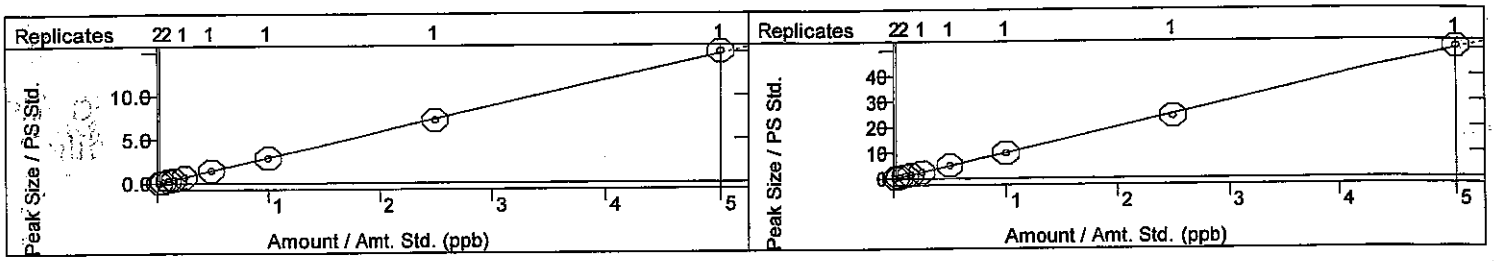


NB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

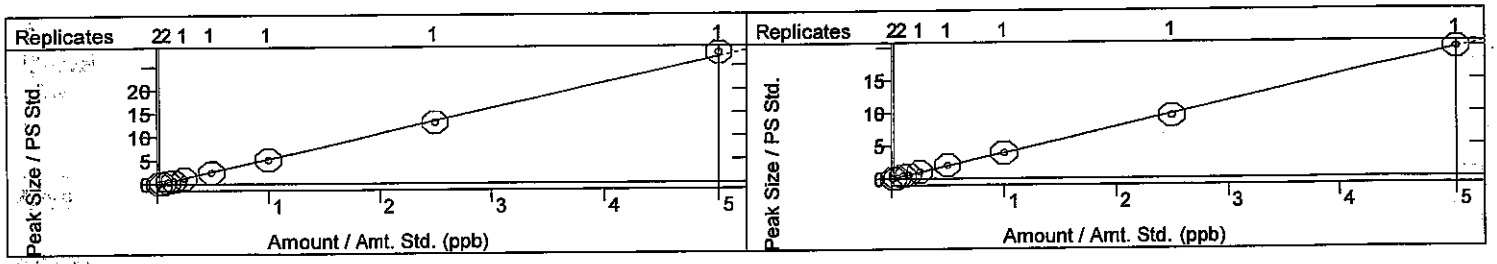
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.013%, Coeff. Det.(r2): 0.999680
y = +2.9610x -0.0167

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.006%, Coeff. Det.(r2): 0.999467
y = +10.0529x -0.0027



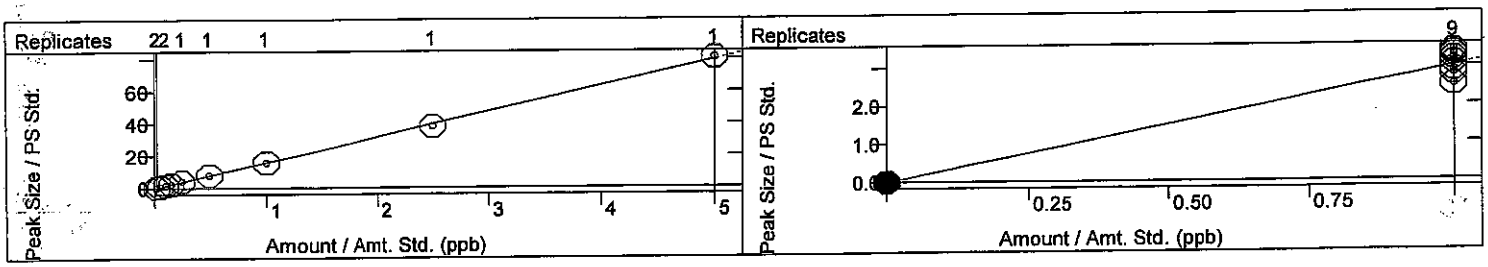
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.15%, Coeff. Det.(r2): 0.999217
y = +5.4050x -0.0806

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.276%, Coeff. Det.(r2): 0.999632
y = +3.9331x +0.0134



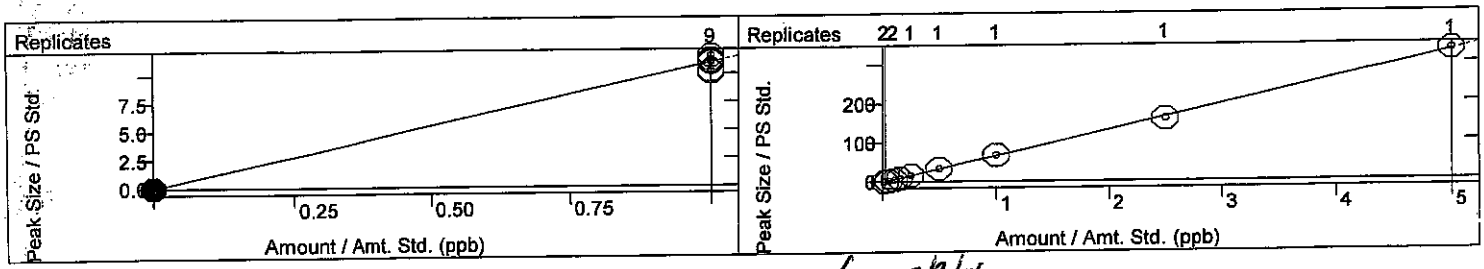
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.898%, Coeff. Det.(r2): 0.999353
y = +15.9319x +0.0353

Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 11.55%, Coeff. Det.(r2): 0.893986
y = +3.0013x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.981195
y = +11.0112x

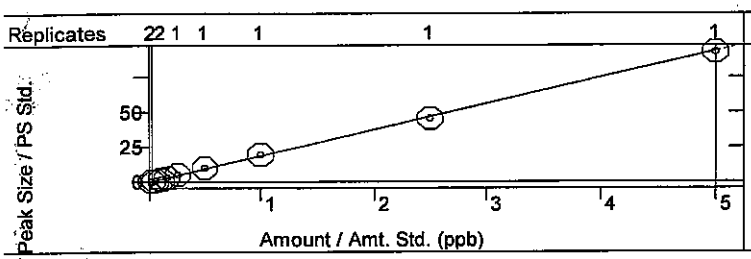
1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.08%, Coeff. Det.(r2): 0.999576
y = +66.3031x -0.9467



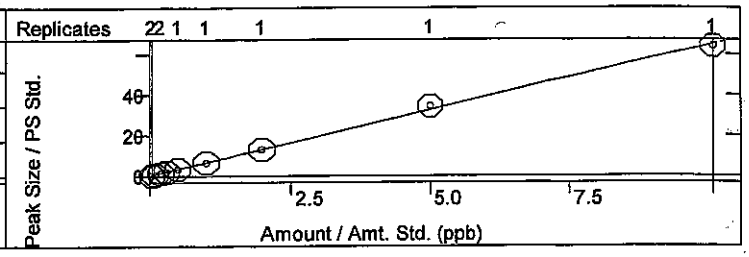
JMB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

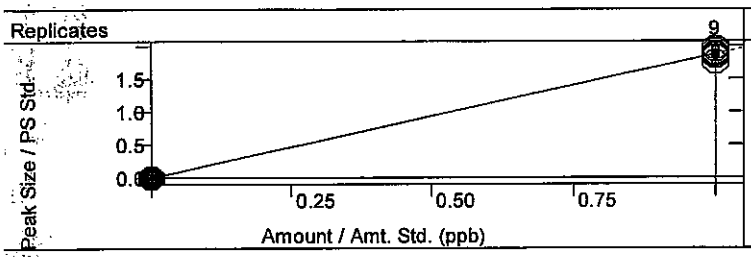
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.56%, Coeff. Det.(r2): 0.999667
y = +18.7622x -0.1487



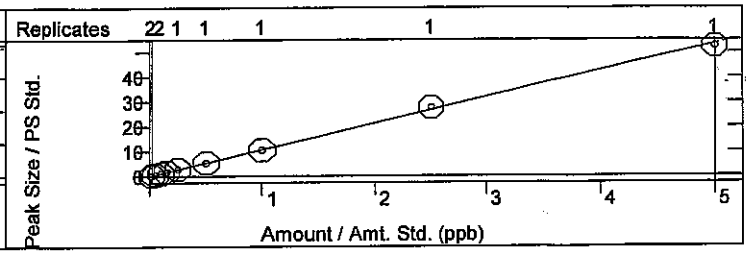
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.227%, Coeff. Det.(r2): 0.998757
y = +6.4646x +0.2471



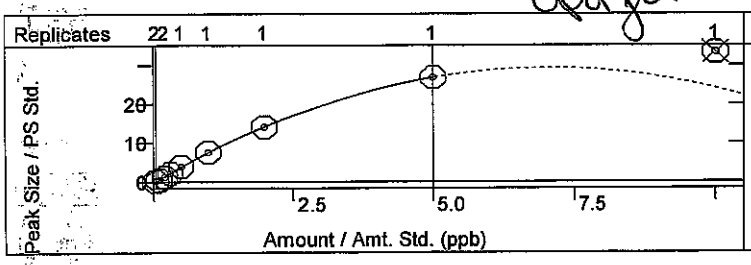
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.421%, Coeff. Det.(r2): 0.989702
y = +1.8764x



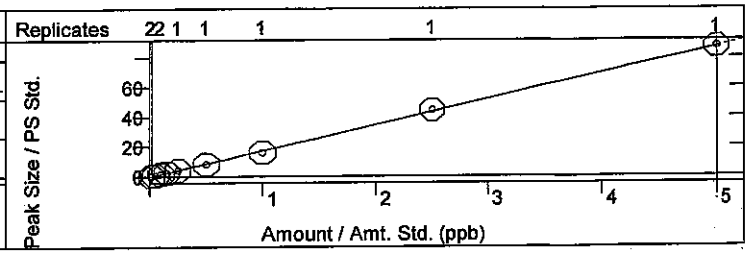
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.885%, Coeff. Det.(r2): 0.999349
y = +10.6832x +0.0514



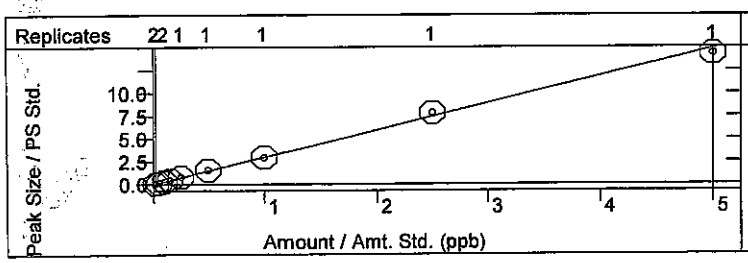
2-Chloroethyl vinyl ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 22.25%, Coeff. Det.(r2): 0.999883
y = -0.5994x2 +8.4266x -0.2584



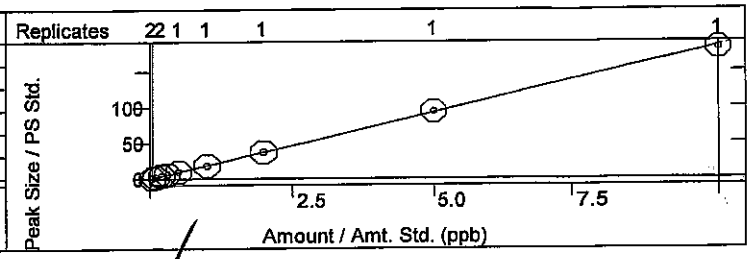
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.170%, Coeff. Det.(r2): 0.999597
y = +17.3985x -0.0821



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.643%, Coeff. Det.(r2): 0.998127
y = +2.9780x -8.0662e-4

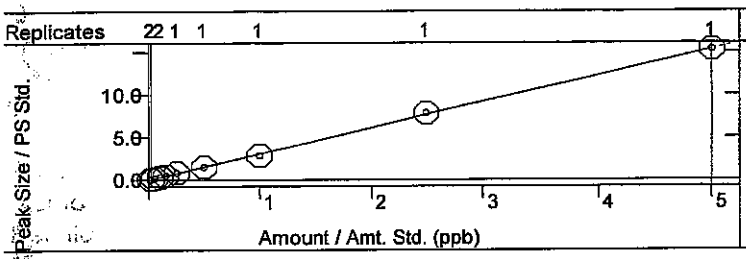


2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.999795
y = +18.5504x -0.1254



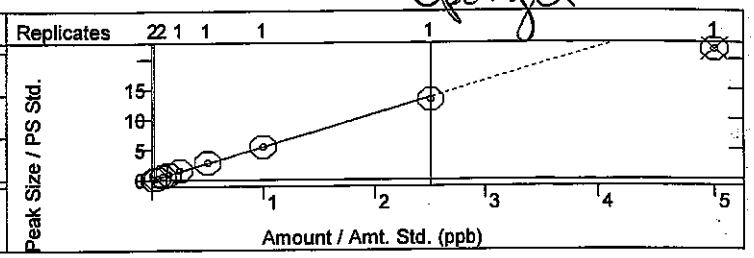
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.394%, Coeff. Det.(r2): 0.999659
y = +3.0661x +0.0076

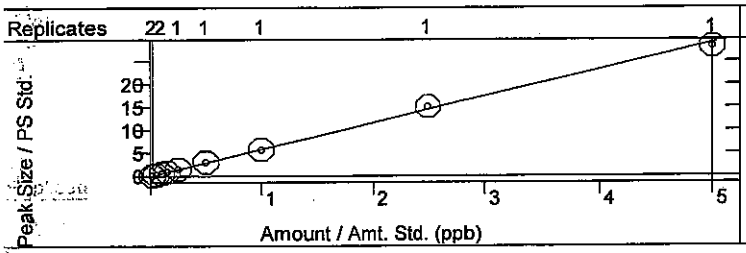


Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.004%, Coeff. Det.(r2): 0.999471
y = +5.4678x +0.0349

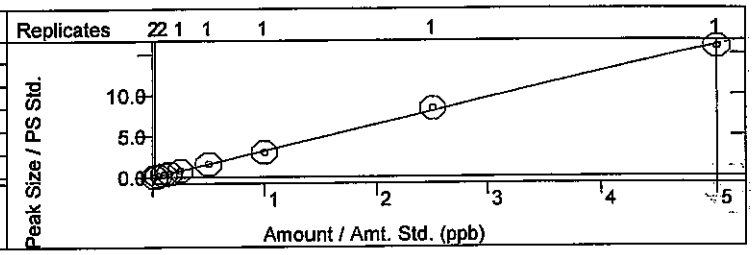
cpd lit



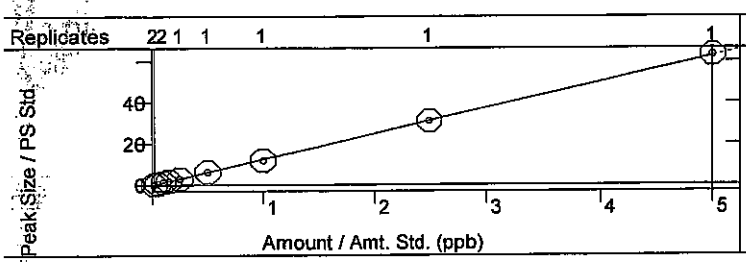
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.234%, Coeff. Det.(r2): 0.998981
y = +5.8135x +0.0010



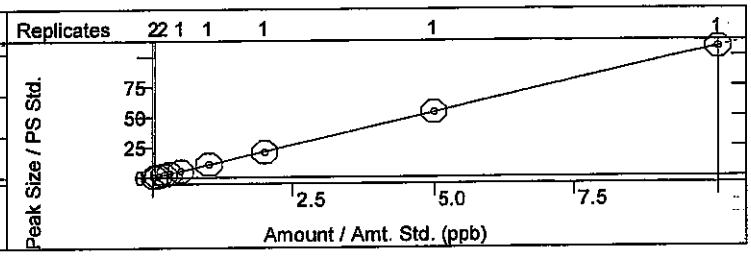
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.906%, Coeff. Det.(r2): 0.999185
y = +3.2188x -0.0128



Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.997%, Coeff. Det.(r2): 0.999839
y = +12.5106x -0.0019



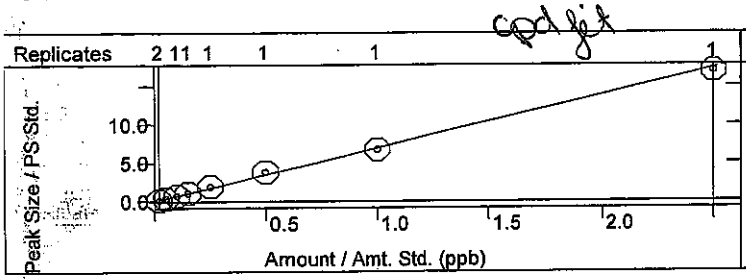
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.725%, Coeff. Det.(r2): 0.999940
y = +10.7446x +0.0447

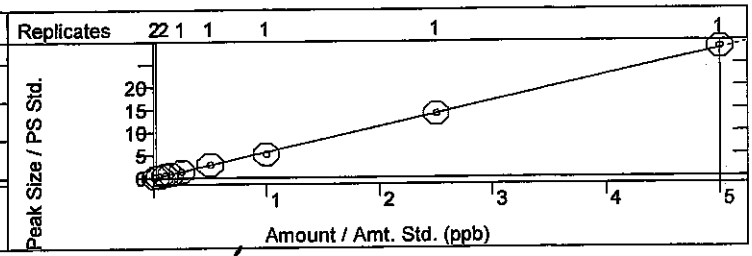


1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.901%, Coeff. Det.(r2): 0.999270
y = +6.9082x +0.0351

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.284%, Coeff. Det.(r2): 0.999601
y = +5.6307x -0.0036

cpd lit

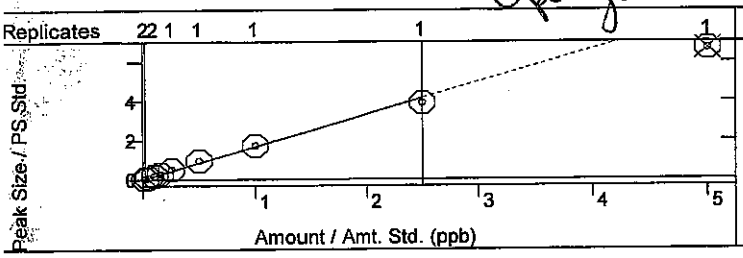




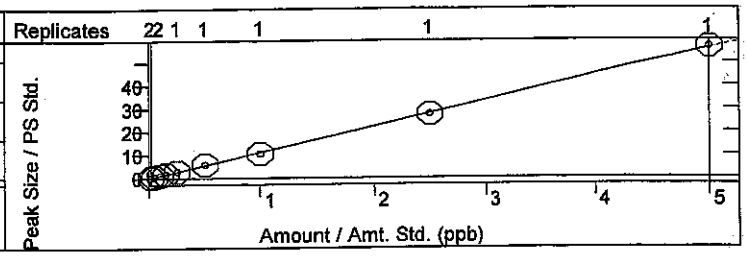
JB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

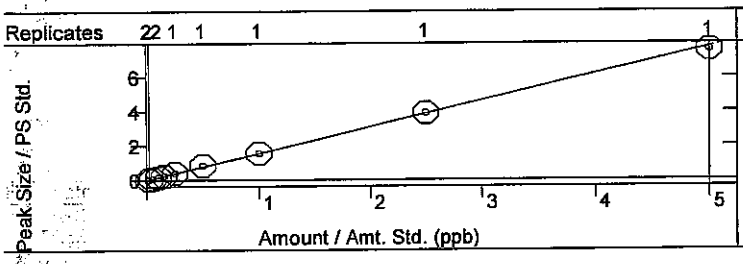
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.997156
y = +1.6606x +0.0166



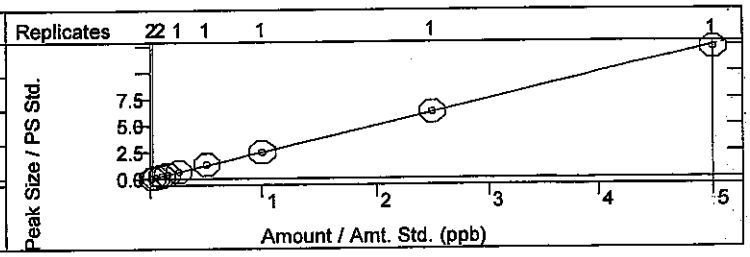
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.714%, Coeff. Det.(r2): 0.999748
y = +11.2091x +0.0117



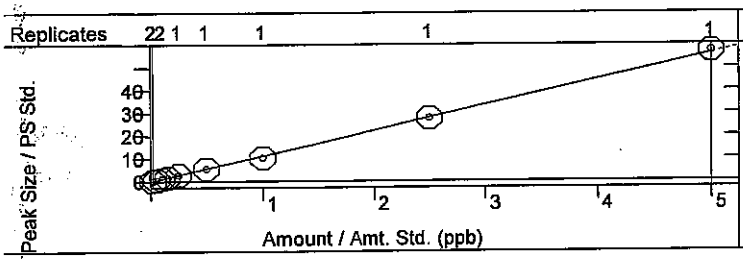
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.111%, Coeff. Det.(r2): 0.999711
y = +1.5460x +0.0069



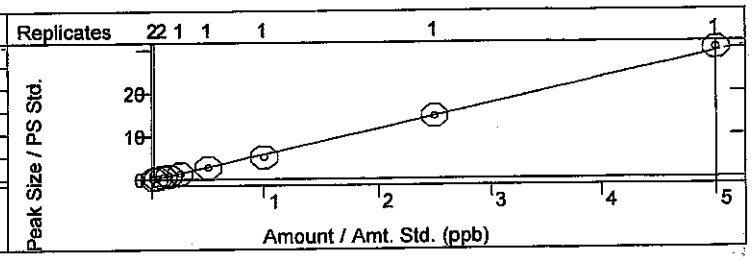
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.447%, Coeff. Det.(r2): 0.999830
y = +2.4886x +0.0124



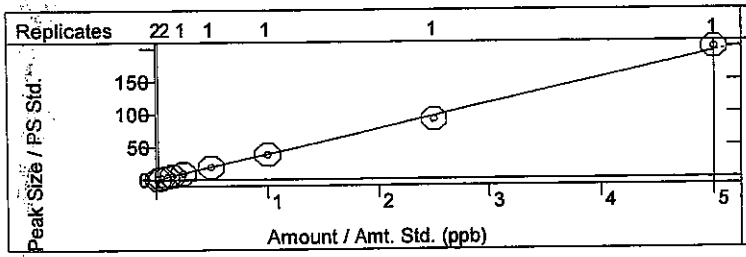
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.832%, Coeff. Det.(r2): 0.999577
y = +11.2207x -0.0089



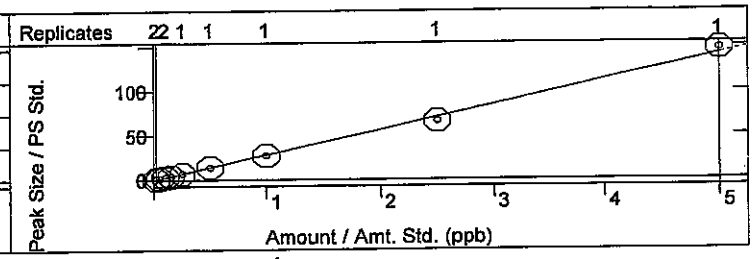
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.144%, Coeff. Det.(r2): 0.999169
y = +5.8575x -0.0325



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.452%, Coeff. Det.(r2): 0.998380
y = +38.6484x -0.0230

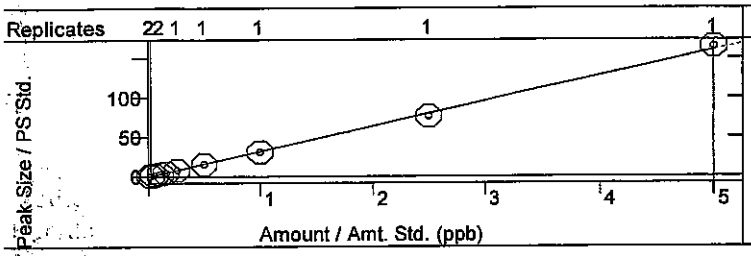


1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.997729
y = +28.2816x -0.0162

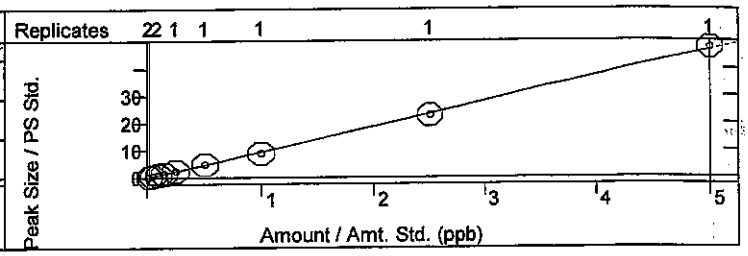


Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

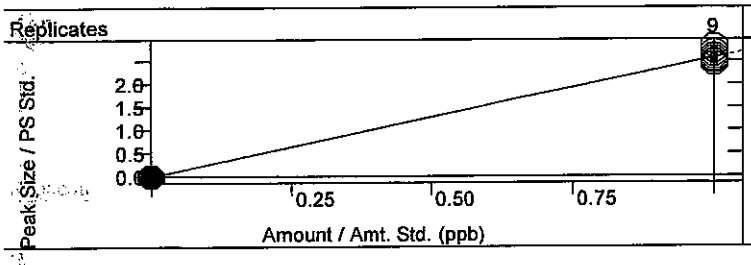
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.133%, Coeff. Det.(r2): 0.998866
y = +32.0381x +0.0029



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.862%, Coeff. Det.(r2): 0.999459
y = +9.3856x +0.0203

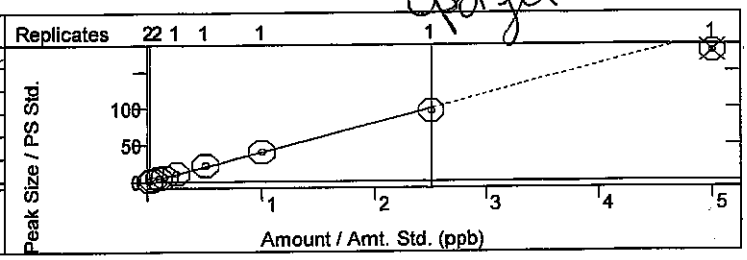


4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.943%, Coeff. Det.(r2): 0.978744
y = +2.5685x

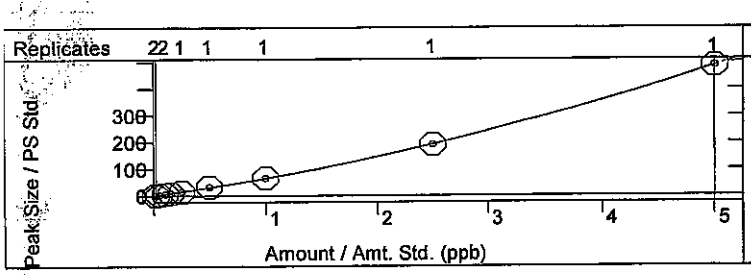


Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.055%, Coeff. Det.(r2): 0.999146
y = +39.8063x +0.4339

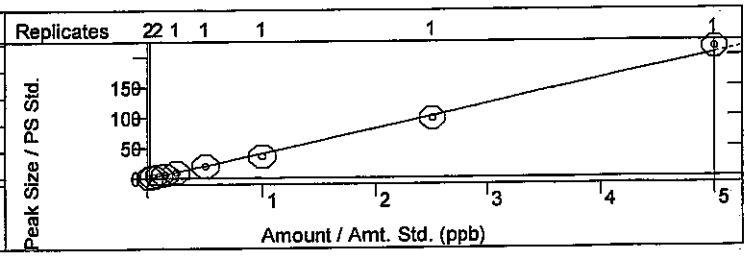
cpd fit



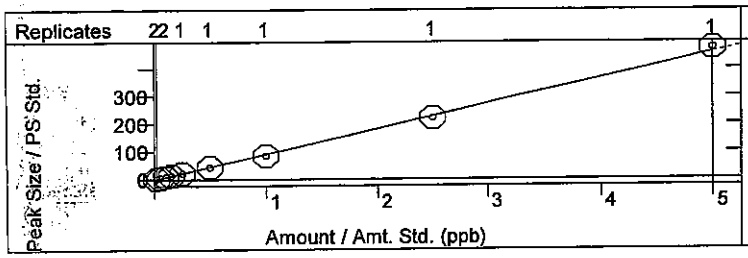
4-Chlorotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.24%, Coeff. Det.(r2): 0.999960
y = +8.0511x2 +56.6805x +1.0911



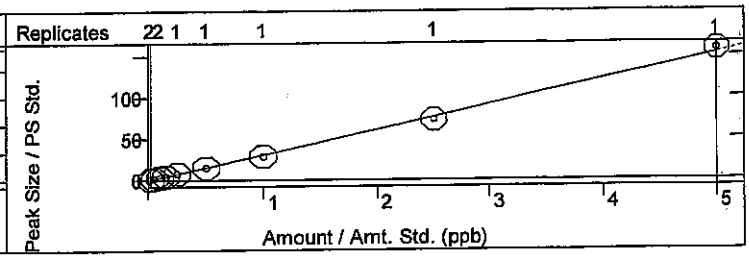
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.376%, Coeff. Det.(r2): 0.997936
y = +40.8540x -0.0623



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.630%, Coeff. Det.(r2): 0.999023
y = +91.4908x -0.1643



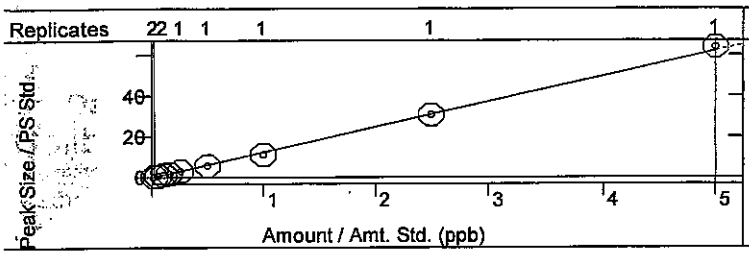
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.784%, Coeff. Det.(r2): 0.998606
y = +30.4997x +0.0205



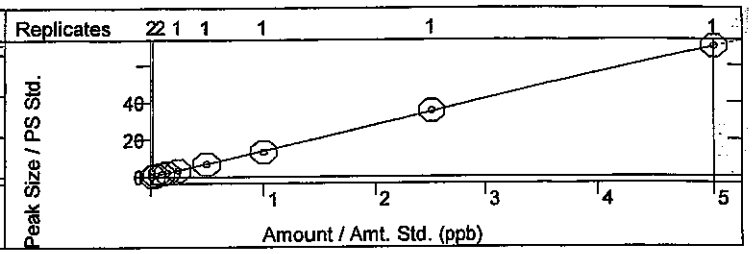
✓ NB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

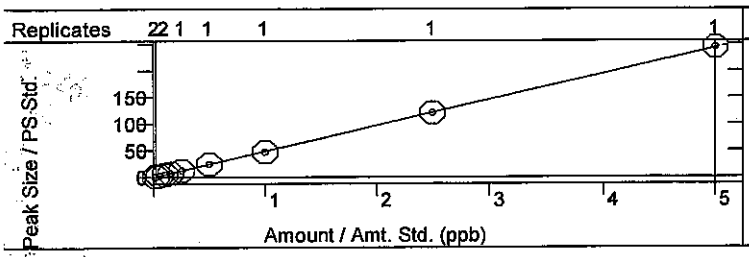
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.892%, Coeff. Det.(r2): 0.999285
y = +12.4233x -0.0710



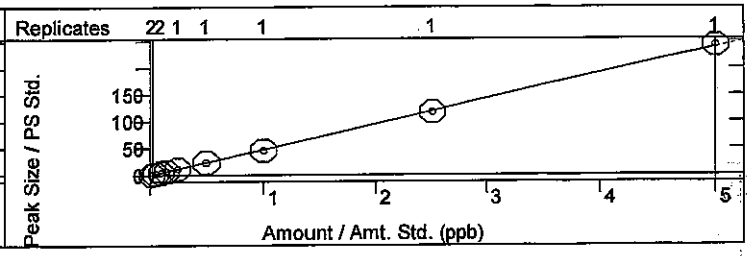
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.067%, Coeff. Det.(r2): 0.999872
y = +14.0110x +0.0177



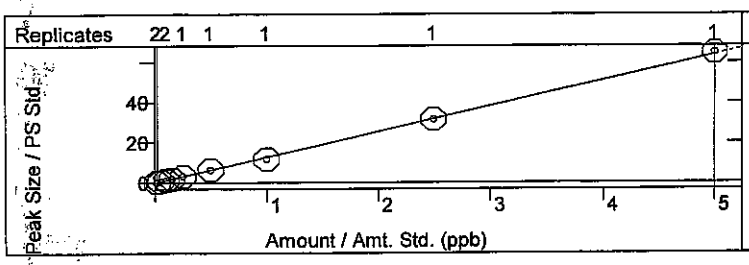
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.622%, Coeff. Det.(r2): 0.999938
y = +48.4769x +0.2358



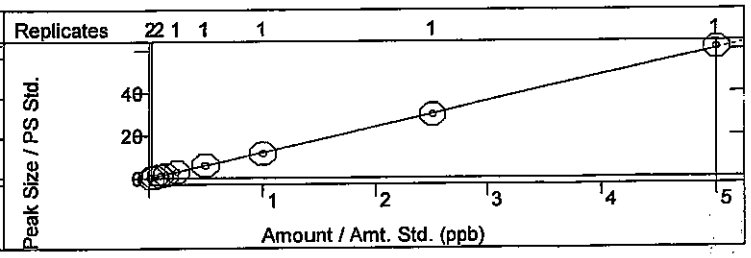
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.968%, Coeff. Det.(r2): 0.999747
y = +47.7543x -0.0641



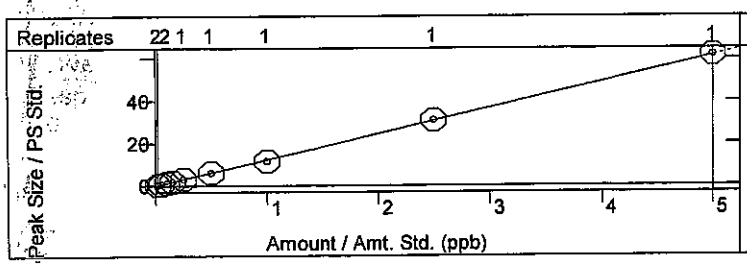
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.903%, Coeff. Det.(r2): 0.999592
y = +12.7489x +0.0147



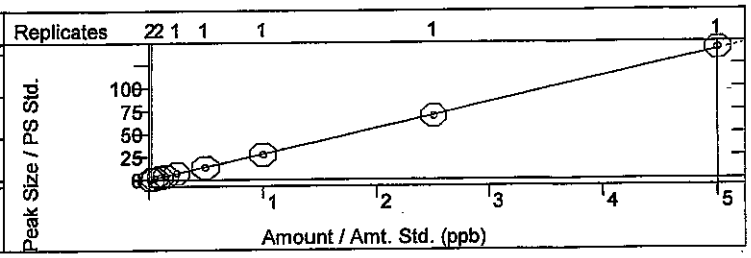
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.999795
y = +12.0658x +0.0025



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.189%, Coeff. Det.(r2): 0.999853
y = +12.2507x +0.0220



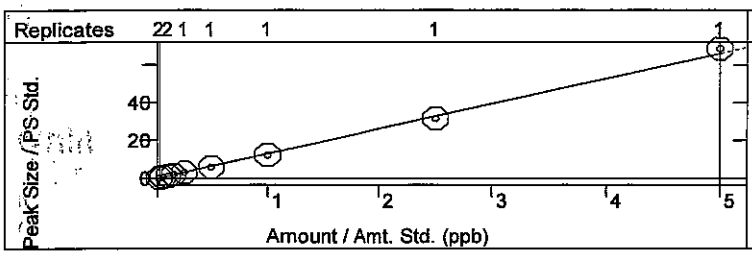
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.618%, Coeff. Det.(r2): 0.999804
y = +28.0304x +0.0511



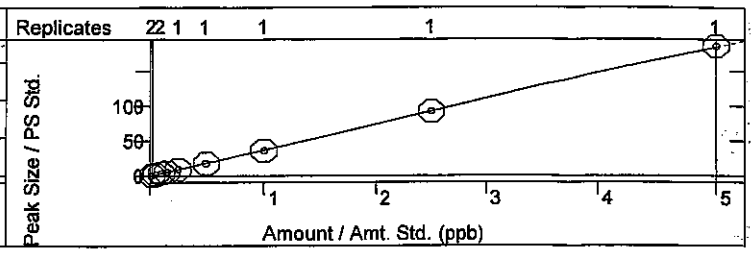
✓WB 7/3/14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

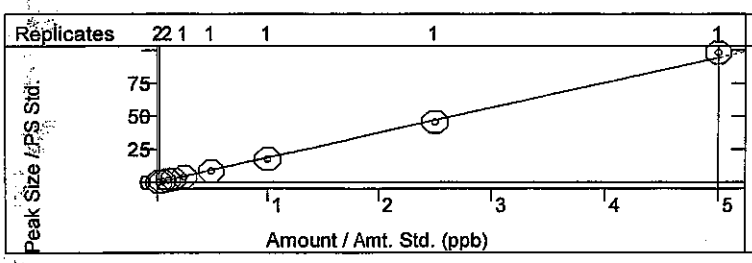
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.998523
y = +13.2059x -0.0388



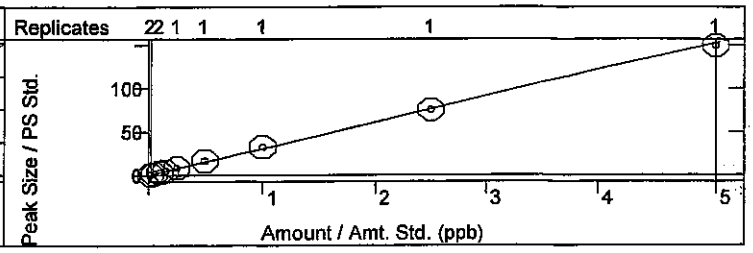
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.602%, Coeff. Det.(r2): 0.999950
y = +36.9512x +0.0486



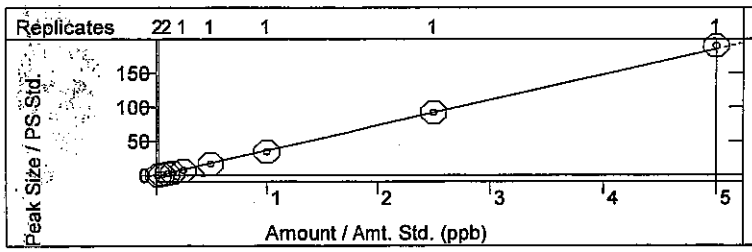
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.015%, Coeff. Det.(r2): 0.998790
y = +18.9317x -0.1816



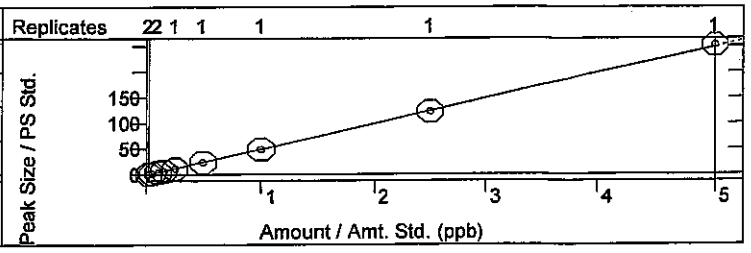
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.348%, Coeff. Det.(r2): 0.999689
y = +30.5080x +0.2538



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.21%, Coeff. Det.(r2): 0.999703
y = +37.1668x -0.6344



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.77%, Coeff. Det.(r2): 0.999876
y = +49.8094x -0.5703



WB 7/3/14

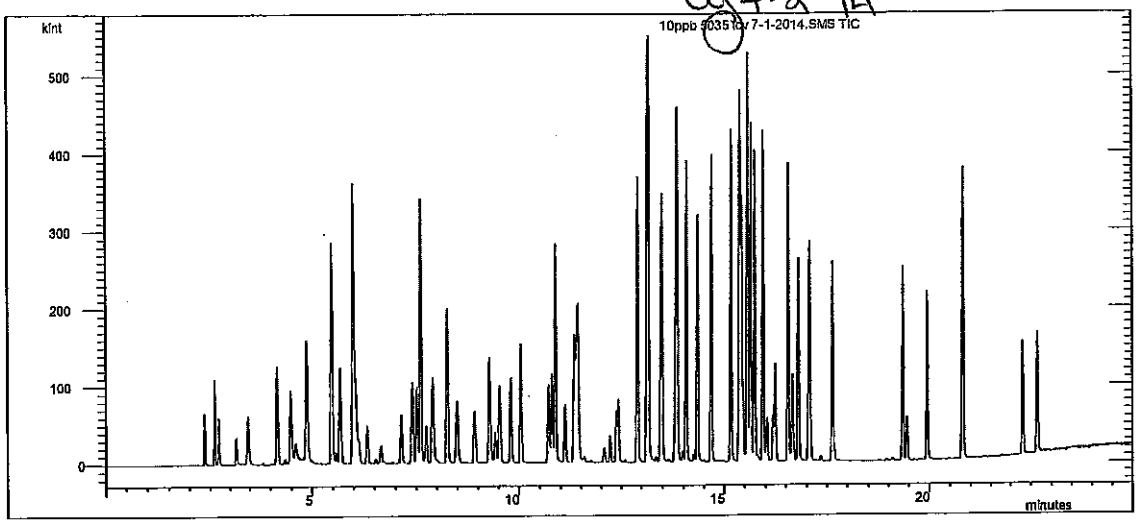
8260B/624 Report

Sample Name: 10ppb 5035 icv **Operator Name:** Christina Gallegos **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\070114m 8260-5035 Low.mth **Inj. Notes:** V-54-0427 **Acquisition Date:** 7/1/2014 10:07:10 PM

Calculation Date: 7/2/2014 8:29:08 AM

used as ccv 7-2-14



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.141	700	Identified	40628	20.000
Benzene-d5-, chloro-	13.455	1373	Identified	56008	20.000
1,4-Dichlorobenzene-d4	17.035	1753	Identified	20503	20.000
Dichlorodifluoromethane	2.360	185	Identified	57375	11.630
Chloromethane	2.611	213	Identified	273540	12.212
Vinyl chloride	2.718	224	Identified	292412	10.734
Chloroethane	3.153	271	Identified	47009	9.863
Bromomethane	3.157	272	Identified	72600	10.807
Trichlorofluoromethane	3.453	304	Identified	54915	9.187
1,1-Dichloroethene	4.161	381	Identified	137647	9.376
Acetone	4.346	401	Identified	118146	16.733
Carbon disulfide	4.481	415	Identified	239046	22.053
Iodomethane	4.608	429	Identified	321474	17.160
Methyl tert-butyl ether (MTBE)	4.871	457	Identified	244751	16.784
Isopropyl ether	5.477	522	Identified	1.453E6	21.391
tert-Butyl alcohol	5.583	533	Identified	221810	153.871
trans-1,2-DCE	5.684	544	Identified	275499	9.451
tert-Butyl ethyl ether	5.986	576	Identified	4.713E6	23.009
Methylene Chloride	6.044	582	Identified	177972	10.414
1,1-Dichloroethane	6.124	590	Identified	38142	8.746
Vinyl acetate	6.328	612	Identified	844674	23.647
2,2-Dichloropropane	6.532	634	Identified	22674	5.985
2-Butanone	6.648	647	Identified	307529	17.174
1,1,1-Trichloroethane	7.408	728	Identified	94917	10.002

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.519	740	Identified	144969	9.349
tert-Amyl methyl ether	7.608	749	Identified	1.418E6	22.815
Carbon Tetrachloride	7.739	763	Identified	36091	9.397
cis-1,2-DCE	7.904	781	Identified	57975	9.751
Benzene	8.256	818	Identified	205711	10.078
Chloroform	8.497	844	Identified	98705	9.288
Bromochloromethane	8.917	889	Identified	82846	10.301
Trichloroethene (TCE)	9.273	927	Identified	320345	9.854
Dibromofluoromethane	9.307	931	Identified	129015	21.161
1,2-Dichloroethane-d4	9.420	943	Identified	452031	20.208
1,2-Dichloroethane (EDC)	9.527	954	Identified	1.332E6	10.178
1,2-Dichloropropane	9.801	983	Identified	403810	10.753
4-Methyl-2-pentanone	10.041	1009	Identified	371567	19.760
Toluene-d8	10.792	1089	Identified	104553	19.897
Toluene	10.873	1098	Identified	304823	10.093
2-Chloroethyl vinyl ether	11.111	1123	Identified	393716	18.517
cis-1,3-dichloropropene	11.325	1146	Identified	433167	8.985
Bromodichloromethane	11.338	1147	Identified	88882	10.663
2-Hexanone	11.375	1151	Identified	1.005E6	19.486
Tetrachloroethene (PCE)	11.408	1155	Identified	85437	9.901
Dibromomethane	11.428	1157	Identified	164474	10.614
1,3-Dichloropropane	12.367	1257	Identified	166287	10.210
trans-1,3-dichloropropene	12.419	1263	Identified	81188	9.087
Ethylbenzene	12.898	1314	Identified	341848	9.760
mp-Xylenes	13.147	1341	Identified	598594	19.811
1,1,2-Trichloroethane	13.148	1341	Identified	208400	10.671
Chlorobenzene	13.478	1375	Identified	152359	9.675
1,2-Dibromoethane (EDB)	13.465	1374	Identified	49337	10.409
o-Xylene	13.820	1411	Identified	306894	9.756
Dibromochloromethane	13.796	1409	Identified	44974	10.298
1,1,1,2-Tetrachloroethane	13.844	1414	Identified	71441	10.151
Isopropylbenzene	14.059	1437	Identified	306260	9.762
Styrene	14.331	1465	Identified	146802	9.061
n-Propylbenzene	14.681	1502	Identified	385233	9.735
1,3,5-Trimethylbenzene	15.160	1554	Identified	276806	9.559
tert-Butylbenzene	15.369	1576	Identified	316693	9.641
2-Chlorotoluene	15.412	1580	Failed SRL 16-2.14	95254	9.857
4-Bromofluorobenzene	15.462	1586	Identified	52131	19.799
Bromobenzene	15.557	1596	Identified	463987	11.152
4-Chlorotoluene	15.572	1597	Identified	656847	10.183
sec-Butylbenzene	15.646	1605	Identified	404826	9.697
1,2,4-Trimethylbenzene	15.739	1614	Identified	888564	9.510
4-Isopropyltoluene	15.934	1635	Identified	298294	9.527
Bromoform	16.024	1645	Identified	122679	9.747
1,2,3-Trichloropropane	16.229	1667	Identified	141928	9.856
n-Butylbenzene	16.548	1701	Identified	503619	10.037
1,1,2,2-Tetrachloroethane	16.651	1712	Identified	478197	9.795
1,3-Dichlorobenzene	16.801	1728	Identified	124824	9.528
1,4-Dichlorobenzene	17.061	1755	Identified	120862	9.767
1,2-Dichlorobenzene	17.646	1818	Identified	125233	9.936

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.354	2003	Identified	269902	9.356
1,2-Dibromo-3-chloropropane	19.454	2013	Identified	126785	9.424
1,2,4-Trichlorobenzene	19.942	2066	Identified	358218	9.430
Naphthalene	20.801	2158	Identified	166885	8.791
1,2,3-Trichlorobenzene	20.813	2159	Identified	322458	10.144
2-Methylnaphthalene	22.298	2316	Identified	300299	8.223
1-Methylnaphthalene	22.653	2354	Identified	430734	8.665

****
Revision Log
****

7/1/2014 10:32 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\070114m 8260-5035 Low.mth'
7/2/2014 8:29 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\070114m 8260-5035 Low.mth'

JC 7-3-14

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001
Client Sample ID: FFOR-CF-0001
Collection Date: 06/30/14 10:29:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Aniline	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Bis(2-ethylhexyl)phthalate	0.10	0.55	J	mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Fluorene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Indeno(1,2,3-cd)pyrene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Isophorone	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Naphthalene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
4-Nitrophenol	ND	0.28		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Phenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Pyrene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Pyridine	ND	0.55		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
2,4,6-Trichlorophenol	0.12	0.22	J	mg/Kg-dry	1	14001	07/02/14 1:18:57 PM
Surr: 2-Fluorophenol	53.2	27.9-127		%REC	1	14001	07/02/14 1:18:57 PM
Surr: Phenol-d5	56.8	24.5-126		%REC	1	14001	07/02/14 1:18:57 PM
Surr: 2,4,6-Tribromophenol	47.7	27.6-136		%REC	1	14001	07/02/14 1:18:57 PM
Surr: Nitrobenzene-d5	62.5	23.5-128		%REC	1	14001	07/02/14 1:18:57 PM
Surr: 2-Fluorobiphenyl	64.6	22.6-132		%REC	1	14001	07/02/14 1:18:57 PM
Surr: 4-Terphenyl-d14	59.9	28.1-128		%REC	1	14001	07/02/14 1:18:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-002
Client Sample ID: FFOR-CF-0002
Collection Date: 06/30/14 10:36:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Acenaphthylene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Aniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Anthracene	2.2	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Benz(a)anthracene	9.8	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Benzo(a)pyrene	9.9	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Benzo(b)fluoranthene	12	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Benzo(g,h,i)perylene	4.4	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Benzo(k)fluoranthene	6.3	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Bis(2-chloroethoxy)methane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Bis(2-chloroethyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Bis(2-chloroisopropyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Bis(2-ethylhexyl)phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Bromophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Butyl benzyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Carbazole	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Chloro-3-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Chloroaniline	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Chloronaphthalene	ND	1.3		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Chlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Chlorophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Chrysene	14	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Di-n-butyl phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Di-n-octyl phthalate	ND	2.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Dibenz(a,h)anthracene	1.6	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Dibenzofuran	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
1,2-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
1,3-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
1,4-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Diethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Dimethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4-Dichlorophenol	ND	2.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4-Dimethylphenol	ND	1.6		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4,6-Dinitro-2-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4-Dinitrophenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,6-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	19	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Fluorene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Hexachlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Hexachlorobutadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Hexachlorocyclopentadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Hexachloroethane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Indeno(1,2,3-cd)pyrene	4.8	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Isophorone	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Methylnaphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
3+4-Methylphenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
N-Nitrosodi-n-propylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
N-Nitrosodimethylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
N-Nitrosodiphenylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Naphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Nitroaniline	ND	2.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Nitrobenzene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2-Nitrophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
4-Nitrophenol	ND	1.3		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Pentachlorophenol	ND	2.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Phenanthrene	5.8	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Phenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Pyrene	18	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Pyridine	ND	2.7		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
1,2,4-Trichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4,5-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
2,4,6-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 1:48:03 PM
Surr: 2-Fluorophenol	0	27.9-127	S	%REC	1	14001	07/02/14 1:48:03 PM
Surr: Phenol-d5	0	24.5-126	S	%REC	1	14001	07/02/14 1:48:03 PM
Surr: 2,4,6-Tribromophenol	0	27.6-136	S	%REC	1	14001	07/02/14 1:48:03 PM
Surr: Nitrobenzene-d5	0	23.5-128	S	%REC	1	14001	07/02/14 1:48:03 PM
Surr: 2-Fluorobiphenyl	0	22.6-132	S	%REC	1	14001	07/02/14 1:48:03 PM
Surr: 4-Terphenyl-d14	0	28.1-128	S	%REC	1	14001	07/02/14 1:48:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-003
Client Sample ID: FFOR-CF-0003
Collection Date: 06/30/14 10:46:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Aniline	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Anthracene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Bis(2-ethylhexyl)phthalate	0.095	0.53	J	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Carbazole	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Chrysene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14001	07/02/14 10:53:51 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Fluorene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Hexachlorobenzene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Hexachlorobutadiene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Hexachlorocyclopentadiene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Hexachloroethane	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Isophorone	ND	0.53	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Methylnaphthalene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Methylphenol	ND	0.53	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
3+4-Methylphenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
N-Nitrosodi-n-propylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
N-Nitrosodiphenylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Naphthalene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Nitrobenzene	ND	0.53	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Phenanthrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Phenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Pyrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Pyridine	ND	0.53	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 10:53:51 AM
Surr: 2-Fluorophenol	41.8	27.9-127	%REC	1	14001	07/02/14 10:53:51 AM
Surr: Phenol-d5	46.2	24.5-126	%REC	1	14001	07/02/14 10:53:51 AM
Surr: 2,4,6-Tribromophenol	43.7	27.6-136	%REC	1	14001	07/02/14 10:53:51 AM
Surr: Nitrobenzene-d5	48.0	23.5-128	%REC	1	14001	07/02/14 10:53:51 AM
Surr: 2-Fluorobiphenyl	50.0	22.6-132	%REC	1	14001	07/02/14 10:53:51 AM
Surr: 4-Terphenyl-d14	57.3	28.1-128	%REC	1	14001	07/02/14 10:53:51 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-004
Client Sample ID: FFOR-CF-0004
Collection Date: 06/30/14 10:55:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Aniline	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Bis(2-ethylhexyl)phthalate	0.097	0.55	J	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14001	07/02/14 3:16:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Isophorone	ND	0.55	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Phenol	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Pyridine	ND	0.55	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14001	07/02/14 3:16:23 PM
Surr: 2-Fluorophenol	52.9	27.9-127	%REC	1	14001	07/02/14 3:16:23 PM
Surr: Phenol-d5	59.5	24.5-126	%REC	1	14001	07/02/14 3:16:23 PM
Surr: 2,4,6-Tribromophenol	47.5	27.6-136	%REC	1	14001	07/02/14 3:16:23 PM
Surr: Nitrobenzene-d5	57.2	23.5-128	%REC	1	14001	07/02/14 3:16:23 PM
Surr: 2-Fluorobiphenyl	61.0	22.6-132	%REC	1	14001	07/02/14 3:16:23 PM
Surr: 4-Terphenyl-d14	61.8	28.1-128	%REC	1	14001	07/02/14 3:16:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-005
Client Sample ID: FFOR-CF-0005
Collection Date: 06/30/14 11:43:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Acenaphthylene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Aniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Anthracene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Benz(a)anthracene	~~1.9~~	1.1	J	mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Benzo(a)pyrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Benzo(b)fluoranthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Benzo(g,h,i)perylene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Benzo(k)fluoranthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Bis(2-chloroethoxy)methane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Bis(2-chloroethyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Bis(2-chloroisopropyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Bis(2-ethylhexyl)phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Bromophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Butyl benzyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Carbazole	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Chloro-3-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Chloroaniline	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Chloronaphthalene	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Chlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Chlorophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Chrysene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Di-n-butyl phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Di-n-octyl phthalate	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Dibenz(a,h)anthracene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Dibenzofuran	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
1,2-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
1,3-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
1,4-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Diethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Dimethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4-Dichlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4-Dimethylphenol	ND	1.6		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4,6-Dinitro-2-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4-Dinitrophenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,6-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Fluorene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Hexachlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Hexachlorobutadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Hexachlorocyclopentadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Hexachloroethane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Indeno(1,2,3-cd)pyrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Isophorone	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Methylnaphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
3+4-Methylphenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
N-Nitrosodi-n-propylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
N-Nitrosodimethylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
N-Nitrosodiphenylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Naphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Nitrobenzene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2-Nitrophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
4-Nitrophenol	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Phenanthrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Phenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Pyrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Pyridine	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
1,2,4-Trichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4,5-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
2,4,6-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:22:57 AM
Surr: 2-Fluorophenol	0	27.9-127	S	%REC	1	14001	07/02/14 11:22:57 AM
Surr: Phenol-d5	0	24.5-126	S	%REC	1	14001	07/02/14 11:22:57 AM
Surr: 2,4,6-Tribromophenol	0	27.6-136	S	%REC	1	14001	07/02/14 11:22:57 AM
Surr: Nitrobenzene-d5	0	23.5-128	S	%REC	1	14001	07/02/14 11:22:57 AM
Surr: 2-Fluorobiphenyl	0	22.6-132	S	%REC	1	14001	07/02/14 11:22:57 AM
Surr: 4-Terphenyl-d14	0	28.1-128	S	%REC	1	14001	07/02/14 11:22:57 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-006
Client Sample ID: FFOR-CF-0006
Collection Date: 06/30/14 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Acenaphthylene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Aniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Anthracene	1.9	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Benz(a)anthracene	11	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Benzo(a)pyrene	13	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Benzo(b)fluoranthene	16	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Benzo(g,h,i)perylene	5.5	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Benzo(k)fluoranthene	7.0	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Bis(2-chloroethoxy)methane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Bis(2-chloroethyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Bis(2-chloroisopropyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Bis(2-ethylhexyl)phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Bromophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Butyl benzyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Carbazole	0.79	1.1	J	mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Chloro-3-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Chloroaniline	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Chloronaphthalene	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Chlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Chlorophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Chrysene	17	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Di-n-butyl phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Di-n-octyl phthalate	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Dibenz(a,h)anthracene	1.9	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Dibenzofuran	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
1,2-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
1,3-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
1,4-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Diethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Dimethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4-Dichlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4-Dimethylphenol	ND	1.6		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4,6-Dinitro-2-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4-Dinitrophenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,6-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	18	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Fluorene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Hexachlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Hexachlorobutadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Hexachlorocyclopentadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Hexachloroethane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Indeno(1,2,3-cd)pyrene	5.9	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Isophorone	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Methylnaphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
3+4-Methylphenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
N-Nitrosodi-n-propylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
N-Nitrosodimethylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
N-Nitrosodiphenylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Naphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Nitrobenzene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2-Nitrophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
4-Nitrophenol	ND	1.3		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Phenanthrene	2.1	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Phenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Pyrene	16	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Pyridine	ND	2.7		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
1,2,4-Trichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4,5-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
2,4,6-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 11:51:53 AM
Surr: 2-Fluorophenol	0	27.9-127	S	%REC	1	14001	07/02/14 11:51:53 AM
Surr: Phenol-d5	0	24.5-126	S	%REC	1	14001	07/02/14 11:51:53 AM
Surr: 2,4,6-Tribromophenol	0	27.6-136	S	%REC	1	14001	07/02/14 11:51:53 AM
Surr: Nitrobenzene-d5	0	23.5-128	S	%REC	1	14001	07/02/14 11:51:53 AM
Surr: 2-Fluorobiphenyl	0	22.6-132	S	%REC	1	14001	07/02/14 11:51:53 AM
Surr: 4-Terphenyl-d14	0	28.1-128	S	%REC	1	14001	07/02/14 11:51:53 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1406D88
Project: Kirtland AFB

Lab ID: 1406D88-007 **Collection Date:** 06/30/14 2:52:00 PM
Client Sample ID: FFOR-CF-0007 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Acenaphthylene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Aniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Anthracene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Benz(a)anthracene	1.2	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Benzo(a)pyrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Benzo(b)fluoranthene	1.3	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Benzo(g,h,i)perylene	0.72	1.1	J	mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Benzo(k)fluoranthene	1.1	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Bis(2-chloroethoxy)methane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Bis(2-chloroethyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Bis(2-chloroisopropyl)ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Bis(2-ethylhexyl)phthalate	1.1	2.7	J	mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Bromophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Butyl benzyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Carbazole	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Chloro-3-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Chloroaniline	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Chloronaphthalene	ND	1.3		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Chlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Chlorophenyl phenyl ether	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Chrysene	0.84	1.1	J	mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Di-n-butyl phthalate	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Di-n-octyl phthalate	ND	2.2		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Dibenz(a,h)anthracene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Dibenzofuran	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
1,2-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
1,3-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
1,4-Dichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
3,3'-Dichlorobenzidine	ND	1.3		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Diethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Dimethyl phthalate	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4-Dichlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4-Dimethylphenol	ND	1.6		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4,6-Dinitro-2-methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4-Dinitrophenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,6-Dinitrotoluene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL III DUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.76	1.1	J	mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Fluorene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Hexachlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Hexachlorobutadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Hexachlorocyclopentadiene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Hexachloroethane	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Indeno(1,2,3-cd)pyrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Isophorone	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Methylnaphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Methylphenol	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
3+4-Methylphenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
N-Nitrosodi-n-propylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
N-Nitrosodimethylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
N-Nitrosodiphenylamine	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Naphthalene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
3-Nitroaniline	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Nitroaniline	ND	2.2		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Nitrobenzene	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2-Nitrophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
4-Nitrophenol	ND	1.3		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Pentachlorophenol	ND	2.2		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Phenanthrene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Phenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Pyrene	0.98	1.1	J	mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Pyridine	ND	2.7		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
1,2,4-Trichlorobenzene	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4,5-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
2,4,6-Trichlorophenol	ND	1.1		mg/Kg-dry	1	14001	07/02/14 12:20:51 PM
Surr: 2-Fluorophenol	0	27.9-127	S	%REC	1	14001	07/02/14 12:20:51 PM
Surr: Phenol-d5	0	24.5-126	S	%REC	1	14001	07/02/14 12:20:51 PM
Surr: 2,4,6-Tribromophenol	0	27.6-136	S	%REC	1	14001	07/02/14 12:20:51 PM
Surr: Nitrobenzene-d5	0	23.5-128	S	%REC	1	14001	07/02/14 12:20:51 PM
Surr: 2-Fluorobiphenyl	0	22.6-132	S	%REC	1	14001	07/02/14 12:20:51 PM
Surr: 4-Terphenyl-d14	0	28.1-128	S	%REC	1	14001	07/02/14 12:20:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1406D88**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-008
Client Sample ID: FFOR-CF-0008
Collection Date: 06/30/14 2:58:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL IIIDUE 07/03/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Aniline	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Anthracene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Benz(a)anthracene	0.10	0.21	J	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Benzo(g,h,i)perylene	0.086	0.21	J	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Bis(2-ethylhexyl)phthalate	0.10	0.53	J	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Carbazole	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Chrysene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4,6-Dinitro-2-methylphenol	~~0.085~~	0.53	J	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14001	07/02/14 12:49:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Comment: LEVEL IIIDUE 07/03/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Fluorene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Hexachlorobenzene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Hexachlorobutadiene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Hexachlorocyclopentadiene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Hexachloroethane	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Isophorone	ND	0.53	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Methylnaphthalene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Methylphenol	ND	0.53	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
3+4-Methylphenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
N-Nitrosodi-n-propylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
N-Nitrosodiphenylamine	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Naphthalene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Nitrobenzene	ND	0.53	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Phenanthrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Phenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Pyrene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Pyridine	ND	0.53	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14001	07/02/14 12:49:55 PM
Surr: 2-Fluorophenol	51.0	27.9-127	%REC	1	14001	07/02/14 12:49:55 PM
Surr: Phenol-d5	54.6	24.5-126	%REC	1	14001	07/02/14 12:49:55 PM
Surr: 2,4,6-Tribromophenol	50.4	27.6-136	%REC	1	14001	07/02/14 12:49:55 PM
Surr: Nitrobenzene-d5	56.5	23.5-128	%REC	1	14001	07/02/14 12:49:55 PM
Surr: 2-Fluorobiphenyl	62.8	22.6-132	%REC	1	14001	07/02/14 12:49:55 PM
Surr: 4-Terphenyl-d14	62.9	28.1-128	%REC	1	14001	07/02/14 12:49:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

arian Star Workstation - 8400 SampleList Wed Jul 02 15:11:43 2014

ampleList: C:\VarianWS\070214.smp

reated: Wed Jul 02 08:52:11 2014
odified: Wed Jul 02 14:44:47 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	mb-14001	1	below	2	1.0
	Notes x1 soil				
4	lcs-14001	1	below	3	1.0
	Notes x1 soil				
5	1406d88-003a	1	below	4	1.0
	Notes x1 soil				
6	1406d88-005a	1	below	5	1.0
	Notes soil FV=10mL				
7	1406d88-006a	1	below	6	1.0
	Notes soil FV=10mL				
8	1406d88-007a	1	below	7	1.0
	Notes soil FV=10mL				
9	1406d88-008a	1	below	8	1.0
	Notes x1 soil				
10	1406d88-001a	1	below	9	1.0
	Notes x1 soil				
11	1406d88-002a	1	below	10	1.0
	Notes soil FV=10mL				
12	1406d88-001ams	1	below	11	1.0
	Notes x1 soil				
13	1406d88-001amsd	1	below	12	1.0
	Notes x1 soil				
14	1406d88-004a	1	below	13	1.0
	Notes x1 soil				
15	1406c94-014a	1	below	14	1.0
	Notes r10x				
16					

dam 7/2/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\070214.rcl.

JV
7.3.14

Spike ID	Spike Name				
ST8270-14006	8270 Internal Standard	SAMP	24702	Container-01 of 01	500 5<C<7.1	µL
ST8270-14007	8270 BNA Surrogate	SAMP	24703	Container-01 of 01	250 1	
ST8270-14008	200ppm Ready Stock	LCS	24892			

PREP BATCH REPORT

Environmental Analysis Laboratory — Time Started: 1:00 — Time Ended: 4:00

Extraction Method 3540

Reviewed By: dam 7/2/14

Prep Start Date: 7/1/2014 10:32:44 A

Prep End Date:

Prep Factor Units: mL / g

Prep Batch ID: **14001** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14001		Soil			30	0	0	dam 7/2 1	0.033	7/1/2014	7-2-14 DCM 4649
LCS-14001		Soil			30	0	0	1	0.033	7/1/2014	
1406D88-001A	FFOR-CF-0001	MeOH (Soil)			30.14	0	0	1	0.033	7/1/2014	
1406D88-001AMS		MeOH (Soil)			30.02	0	0	1	0.033	7/1/2014	
1406D88-001AMSD		MeOH (Soil)			30.12	0	0	1	0.033	7/1/2014	
1406D88-002A	FFOR-CF-0002	MeOH (Soil)			30.03	0	0	1	0.033	7/1/2014	
1406D88-003A	FFOR-CF-0003	MeOH (Soil)			30.05	0	0	1	0.033	7/1/2014	
1406D88-004A	FFOR-CF-0004	MeOH (Soil)			30.11	0	0	1	0.033	7/1/2014	
1406D88-005A	FFOR-CF-0005	MeOH (Soil)			30.99	0	0	dam 10	0.033	7/1/2014	
1406D88-006A	FFOR-CF-0006	MeOH (Soil)			30.96	0	0	10	0.033	7/1/2014	
1406D88-007A	FFOR-CF-0007	MeOH (Soil)			30.04	0	0	10	0.033	7/1/2014	
1406D88-008A	FFOR-CF-0008	MeOH (Soil)			30.01	0	0	1	0.033	7/1/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4642	Sodium Sulfate	14881	Container-01 of 02	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14006	8270 Internal Standard	SAMP	24702	Container-01 of 01	20 dam 7/2	µL
ST8270-14007	8270 BNA Surrogate	SAMP	24703	Container-01 of 01	500 5<C<7.1	µL
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 1	µL

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and ___.

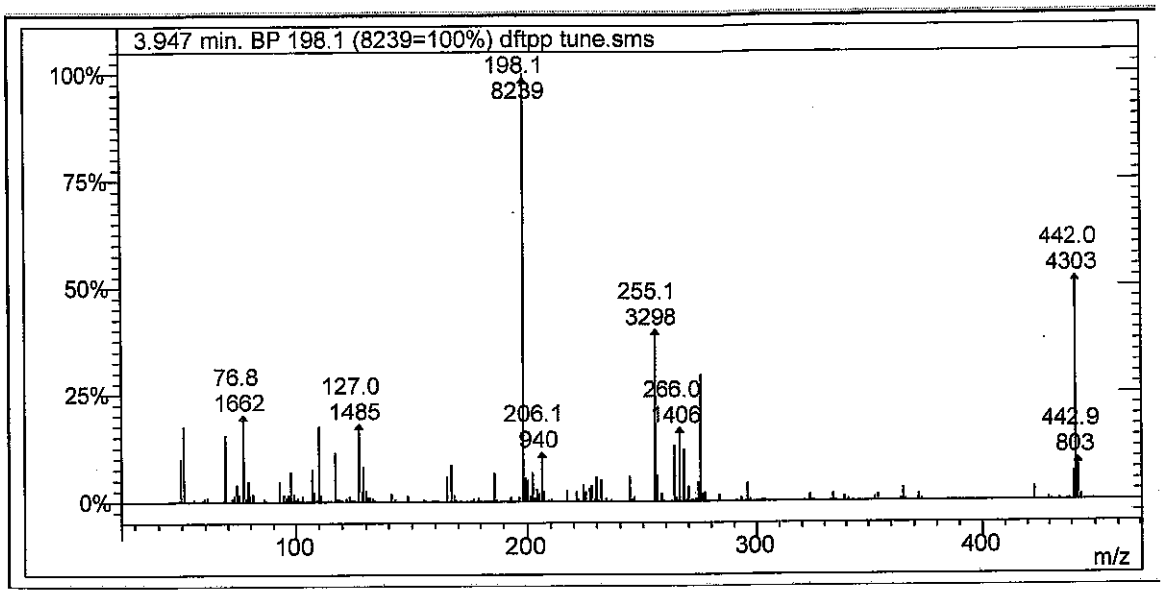
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/2/2014

Injection Time: 8:54

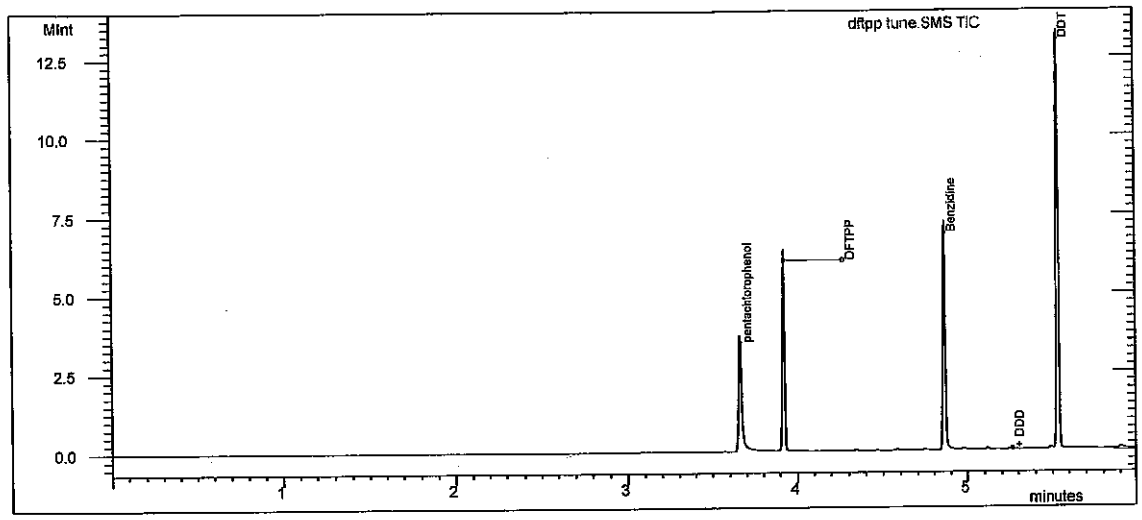
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	17.56	PASS
68	<2% of m/z 69	1.80	PASS
69	Present	15.49	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	18.02	PASS
197	<2% of m/z 198	1.01	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.41	PASS
275	10-60% of base peak	29.45	PASS
365	>1% of base peak	3.06	PASS
441	Present and <m/z 443	68.62	PASS
442	>50% of m/z 198	52.23	PASS
443	15-24% of m/z 442	18.66	PASS

dlm 7/2/14

7-3-14

Degradation Report

Acquisition Date:	7/2/2014 8:54:47 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.535	3.513E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.265	9670	5
DDE	5.035	34	6

% Degradation of **DDT : =** .275

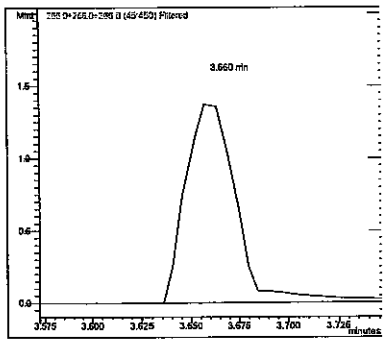
✓ LCO dam 7/2/14

7/7.3/14

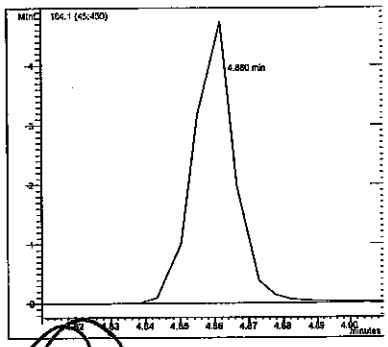
Tailing and Gaussian Factor Report

Acquisition Date:	7/2/2014 8:54:47 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.66 Area = 2.555E6



Benzidine
RT = 4.86 Area = 3.980E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.660	1.793	0.810
Benzidine	4.860	0.704	0.876

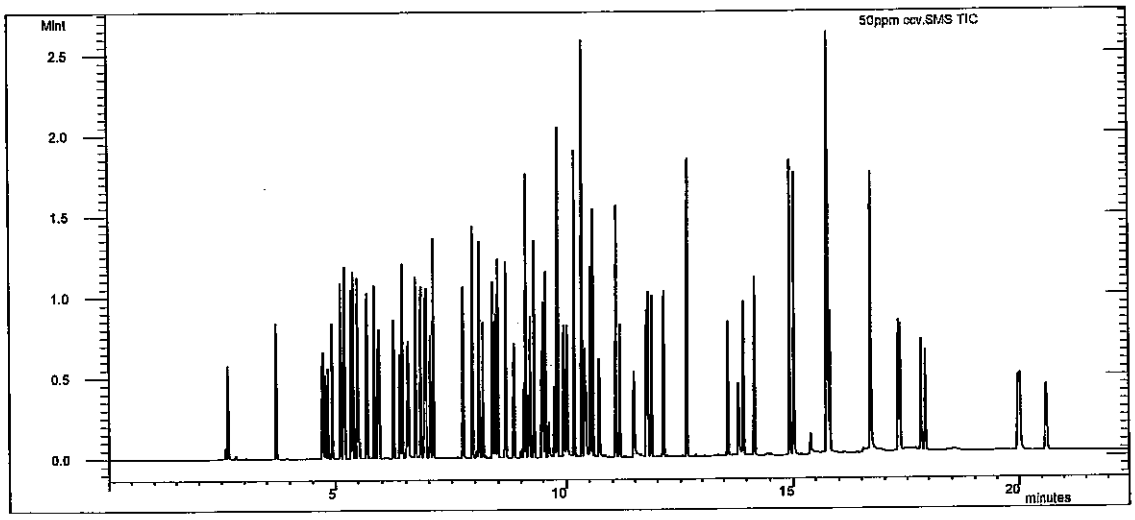
dam 7/2/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.660	2.555E6
3	Benzidine	4.860	3.980E6

7.3.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	7/2/2014 9:13:58 AM
Calculation Date:	7/2/2014 9:36:27 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.184	430	Identified	199496	40.000
Naphthalene-d8 (I.S)	6.906	606	Identified	649048	40.000
Acenaphthene-d10 (I.S)	9.505	872	Identified	275231	40.000
Phenanthrene-d10	11.750	1103	Identified	525477	40.000
Chrysene-d12 I.S	15.766	1515	Identified	590445	40.000
Perylene-d12 I.S	17.920	1741	Identified	740367	40.000
N-nitrosodimethylamine	2.594	164	Identified	815099	53.895
Pyridine	2.639	168	Identified	2.585E6	57.034
2-Fluorophenol	3.709	278	Identified	298631	52.202
Phenol-d5	4.714	381	Identified	281187	51.629
Phenol	4.730	383	Identified	307593	50.333
Aniline	4.783	388	Identified	881983	43.202
Bis(2-chloroethyl)ether	4.837	394	Identified	520804	52.197
2-Chlorophenol	4.926	403	Identified	301042	50.455
1,3-Dichlorobenzene	5.112	422	Identified	380222	50.646
1,4-Dichlorobenzene	5.206	432	Identified	390875	54.993
Benzyl alcohol	5.351	447	Identified	291610	52.328
1,2-Dichlorobenzene	5.401	452	Identified	369775	52.772
2-Methylphenol	5.490	461	Identified	243380	50.009
Bis(2-chloroisopropyl)ether	5.507	463	Identified	355951	50.761
3+4-Methylphenol	5.695	482	Identified	288059	47.365
N-Nitrosodi-n-propylamine	5.685	481	Identified	882719	50.015
Hexachloroethane	5.840	497	Identified	1.151E6	49.795
Nitrobenzene-d5	5.913	504	Identified	250201	50.129

Before RT update

JC 7-3-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.939	507	Identified	270510	52.865
Isophorone	6.244	538	Identified	500675	52.701
2-Nitrophenol	6.373	551	Identified	248259	49.283
2,4-Dimethylphenol	6.421	556	Identified	294013	49.674
Benzoic acid	6.528	567	Identified	1.483E6	43.463
Bis(2-chloroethoxy)methane	6.548	569	Identified	307135	52.286
2,4-Dichlorophenol	6.709	586	Identified	280625	48.937
1,2,4-Trichlorobenzene	6.824	598	Identified	267839	50.506
Naphthalene	6.938	610	Identified	706486	52.456
4-Chloroaniline	7.028	619	Identified	297030	47.397
Hexachlorobutadiene	7.099	626	Identified	498272	46.163
4-Chloro-3-methylphenol	7.740	691	Identified	321400	47.261
2-Methylnaphthalene	7.942	712	Identified	192733	47.162
1-Methylnaphthalene	8.089	727	Failed	195655	47.016
Hexachlorocyclopentadiene	8.166	735	Identified	354026	43.506
2,4,6-Trichlorophenol	8.373	756	Identified	116464	47.225
2,4,5-Trichlorophenol	8.430	762	Identified	109377	47.837
2-Fluorobiphenyl	8.488	768	Identified	556531	52.649
2-Chloronaphthalene	8.668	786	Identified	564053	52.367
2-Nitroaniline	8.849	805	Identified	388198	50.587
Dimethyl phthalate	9.105	831	Identified	1.067E6	53.917
2,6-Dinitrotoluene	9.208	842	Identified	239603	50.458
Acenaphthylene	9.293	850	Identified	682992	50.947
3-Nitroaniline	9.469	868	Identified	382490	51.058
Acenaphthene	9.554	877	Identified	445416	51.241
2,4-Dinitrophenol	9.618	884	Identified	745005	53.129
4-Nitrophenol	9.751	897	Identified	71086	53.393
Dibenzofuran	9.813	904	Identified	297209	46.986
2,4-Dinitrotoluene	9.813	904	Identified	122191	48.130
Diethyl phthalate	10.163	940	Identified	877879	50.802
4-Chlorophenyl phenyl ether	10.330	957	Identified	242170	42.110
Fluorene	10.329	957	Identified	874165	48.814
4-Nitroaniline	10.396	964	Identified	721442	54.213
4,6-Dinitro-2-methylphenol	10.425	967	Identified	947950	59.247
N-Nitrosodiphenylamine	10.521	977	Identified	482258	54.961
Azobenzene	10.571	982	Identified	635324	51.577
2,4,6-Tribromophenol	10.704	995	Identified	1.144E6	52.543
4-Bromophenyl phenyl ether	11.071	1033	Identified	360429	53.775
Hexachlorobenzene	11.158	1042	Identified	354114	48.763
Pentachlorophenol	11.475	1074	Identified	1.009E6	54.055
Phenanthrene	11.787	1107	Identified	690312	54.651
Anthracene	11.864	1115	Identified	698016	54.561
Carbazole	12.130	1142	Identified	646729	51.867
Di-n-butyl phthalate	12.634	1193	Identified	1.478E6	56.307
Fluoranthene	13.590	1289	Identified	613050	50.088
Benzidine	13.825	1314	Identified	328085	40.363
Pyrene	13.935	1325	Identified	617833	50.146
4-Terphenyl-d14	14.170	1349	Identified	862472	48.748
Butyl benzyl phthalate	14.910	1425	Identified	730796	52.203
3,3'-Dichlorobenzidine	15.735	1512	Identified	1.303E6	46.372

Operator: David Melius Inj. Notes: sv110-0594 50ppm ccv.SMS

7/2/2014 9:37

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.749	1513	Identified	1.134E6	42.607
Bis(2-ethylhexyl)phthalate	15.752	1513	Identified	702725	40.177
Chrysene	15.803	1519	Identified	1.375E6	45.095
Di-n-octyl phthalate	16.686	1612	Identified	1.912E6	54.272
Benzo(b)fluoranthene	17.305	1677	Identified	1.313E6	49.060
Benzo[k]fluoranthene	17.390	1686	Missing		N/A
Benzo[a]pyrene	17.823	1731	Identified	1.268E6	50.082
Indeno[1,2,3-cd]pyrene	19.976	1959	Identified	798686	49.577
Dibenz[a,h]anthracene	20.013	1963	Identified	670727	49.875
Benzo[g,h,i]perylene	20.605	2025	Identified	748498	47.661

RT shift

****
Revision Log
****

7/2/2014 9:36 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	199496	5.18	649048	6.91	275231	9.50	525158	11.75	590445	15.77	743528	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 7/2/14

7.3.14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\070214\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 7/2/2014 Time Analyzed: 09:13

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	199496	5.18	649048	6.91	275231	9.50	525158	11.75	590445	15.77	743528	17.92
UPPER LIMIT	398992	5.68	1.298E6	7.41	550462	10.00	1.050E6	12.25	1.181E6	16.27	1.487E6	18.42
LOWER LIMIT	99748	4.68	324524	6.41	137616	9.00	262579	11.25	295223	15.27	371764	17.42
EPA SAMPLE NO												
mb-14001	142480	5.19	471471	6.91	219623	9.51	406066	11.75	471291	15.77	549674 D	17.93 D
lcs-14001	124826	5.18	418459	6.91	182683	9.51	308327	11.75	349905	15.77	388596	17.92
1406d88-00	123793	5.19	413446	6.91	184496	9.51	345413	11.75	403401	15.76	473259	17.92
1406d88-00	116146	5.18	387868	6.91	172635	9.50	316706	11.75	351470	15.77	403014	17.92
1406d88-00	112058	5.19	373845	6.91	159201	9.51	314607	11.76	386970	15.77	478236	17.93
1406d88-00	112100	5.19	369982	6.91	166705	9.51	377284	11.76	421387	15.77	511731	17.93
1406d88-00	122121	5.19	412810	6.91	175746	9.51	361467	11.76	446557	15.77	521361	17.93
1406d88-00	104615	5.19	335897	6.91	148302	9.51	325806	11.75	327060	15.77	372377	17.93
1406d88-00	111747	5.19	380150	6.91	168115	9.51	337772	11.76	369009	15.77	467361	17.93
1406d88-00	112345	5.18	366723	6.91	158634	9.51	324651	11.75	369584	15.77	451653	17.92
1406d88-00	86348 * NMR	5.19	288024 * NMR	6.91	118228 *	9.51	240565 *	11.76	262423 *	15.77	309539 *	17.93
1406d88-00	116616	5.19	390574	6.91	171056	9.51	370748	11.76	376493	15.77	435643 D	17.93 D

* NMR

dkm 7/2/14

7.3.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\070214\50ppm ccv.sms Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 7/2/2014 Time Analyzed: 09:13

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	199496	5.18	649048	6.91	275231	9.50	525158	11.75	590445	15.77	743528	17.92
UPPER LIMIT	398992	5.68	1.298E6	7.41	550462	10.00	1.050E6	12.25	1.181E6	16.27	1.487E6	18.42
LOWER LIMIT	99748	4.68	324524	6.41	137616	9.00	262579	11.25	295223	15.27	371764	17.42
EPA SAMPLE NO												
1406c94-01	76042 D	5.20 D	334771 D	6.92 D	167772	9.51	321723	11.76	336860	15.77	397625	17.93

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dam 7/2/14

JC 7.3.14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/2/2014 Time: 9:13

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.269	0.050	50.00	53.90	-7.8	40.0	PASS	PASS
Pyridine	10.365	0.050	50.00	57.03	-14.1	40.0	PASS	PASS
2-Fluorophenol	1.198	0.050	50.00	52.20	-4.4	40.0	PASS	PASS
Phenol-d5	1.128	0.050	50.00	51.64	-3.3	40.0	PASS	PASS
Phenol	1.235	0.050	50.00	50.39	-0.8	20.0	PASS	PASS
Aniline	3.534	0.050	50.00	43.17	13.7	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.088	0.050	50.00	52.20	-4.4	40.0	PASS	PASS
2-Chlorophenol	1.207	0.050	50.00	50.45	-0.9	40.0	PASS	PASS
1,3-Dichlorobenzene	1.525	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
1,4-Dichlorobenzene	1.567	0.050	50.00	54.99	-10.0	20.0	PASS	PASS
Benzyl alcohol	1.169	0.050	50.00	52.33	-4.7	40.0	PASS	PASS
1,2-Dichlorobenzene	1.483	0.050	50.00	52.77	-5.5	40.0	PASS	PASS
2-Methylphenol	0.976	0.050	50.00	50.01	0.0	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.427	0.050	50.00	50.76	-1.5	40.0	PASS	PASS
3+4-Methylphenol	1.155	0.050	50.00	47.36	5.3	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.540	0.050	50.00	50.01	0.0	40.0	PASS	PASS
Hexachloroethane	4.614	0.050	50.00	49.79	0.4	40.0	PASS	PASS
Nitrobenzene-d5	0.308	0.050	50.00	50.13	-0.3	40.0	PASS	PASS
Nitrobenzene	0.333	0.050	50.00	52.86	-5.7	40.0	PASS	PASS
Isophorone	0.617	0.050	50.00	52.70	-5.4	40.0	PASS	PASS
2-Nitrophenol	0.306	0.050	50.00	49.25	1.5	20.0	PASS	PASS
2,4-Dimethylphenol	0.362	0.050	50.00	49.67	0.7	40.0	PASS	PASS
Benzoic acid	1.828	0.050	50.00	43.46	13.1	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.379	0.050	50.00	52.36	-4.7	40.0	PASS	PASS
2,4-Dichlorophenol	0.346	0.050	50.00	48.94	2.1	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.333	0.050	50.00	51.00	-2.0	40.0	PASS	PASS
Naphthalene	0.871	0.050	50.00	52.45	-4.9	40.0	PASS	PASS
4-Chloroaniline	0.366	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorobutadiene	0.614	0.050	50.00	46.16	7.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.396	0.050	50.00	47.26	5.5	20.0	PASS	PASS
2-Methylnaphthalene	0.238	0.050	50.00	47.16	5.7	40.0	PASS	PASS
1-Methylnaphthalene	0.241	0.050	50.00	47.07	5.9	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.436	0.050	50.00	43.51	13.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.339	0.050	50.00	47.22	5.6	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.318	0.050	50.00	47.84	4.3	40.0	PASS	PASS
2-Fluorobiphenyl	1.618	0.050	50.00	52.65	-5.3	40.0	PASS	PASS

dlm 7/2/14

7.3.14

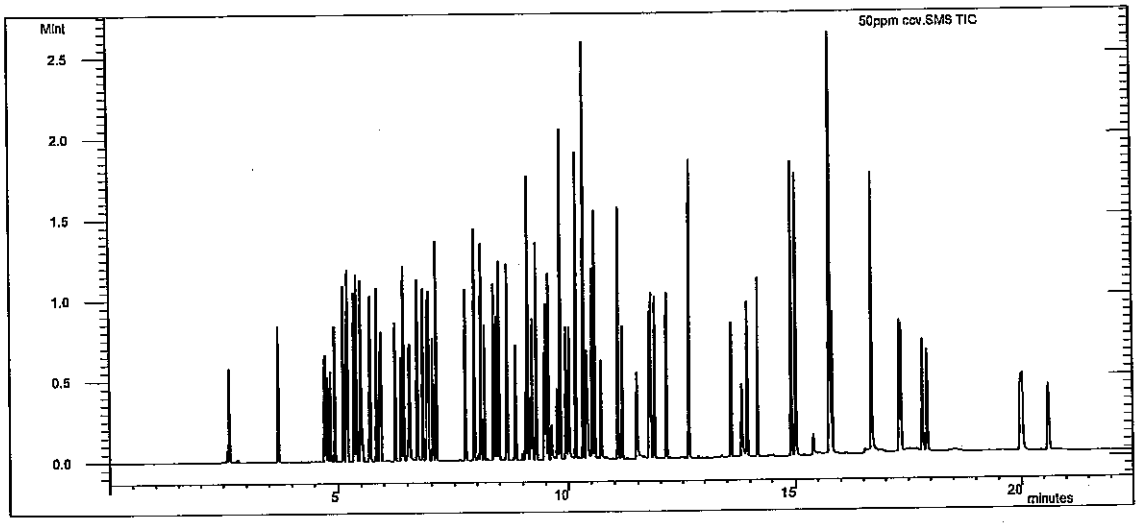
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.639	0.050	50.00	52.36	-4.7	40.0	PASS	PASS
2-Nitroaniline	1.128	0.050	50.00	50.59	-1.2	40.0	PASS	PASS
Dimethyl phthalate	3.102	0.050	50.00	53.92	-7.8	40.0	PASS	PASS
2,6-Dinitrotoluene	0.696	0.050	50.00	50.46	-0.9	40.0	PASS	PASS
Acenaphthylene	1.984	0.050	50.00	50.91	-1.8	40.0	PASS	PASS
3-Nitroaniline	1.115	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Acenaphthene	1.295	0.050	50.00	51.24	-2.5	20.0	PASS	PASS
2,4-Dinitrophenol	2.165	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
4-Nitrophenol	0.206	0.050	50.00	53.31	-6.6	40.0	PASS	PASS
Dibenzofuran	0.864	0.050	50.00	46.99	6.0	40.0	PASS	PASS
2,4-Dinitrotoluene	0.354	0.050	50.00	48.03	3.9	40.0	PASS	PASS
Diethyl phthalate	2.558	0.050	50.00	50.95	-1.9	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.704	0.050	50.00	42.11	15.8	40.0	PASS	PASS
Fluorene	2.541	0.050	50.00	48.81	2.4	40.0	PASS	PASS
4-Nitroaniline	2.097	0.050	50.00	54.21	-8.4	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.445	0.050	50.00	59.29	-18.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.735	0.050	50.00	55.05	-10.1	20.0	PASS	PASS
Azobenzene	0.968	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
2,4,6-Tribromophenol	1.738	0.050	50.00	52.44	-4.9	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.549	0.050	50.00	53.81	-7.6	40.0	PASS	PASS
Hexachlorobenzene	0.539	0.050	50.00	48.79	2.4	40.0	PASS	PASS
Pentachlorophenol	1.537	0.050	50.00	54.08	-8.2	20.0	PASS	PASS
Phenanthrene	1.052	0.050	50.00	54.68	-9.4	40.0	PASS	PASS
Anthracene	1.063	0.050	50.00	54.59	-9.2	40.0	PASS	PASS
Carbazole	0.985	0.050	50.00	51.90	-3.8	40.0	PASS	PASS
Di-n-butyl phthalate	2.251	0.050	50.00	56.34	-12.7	40.0	PASS	PASS
Fluoranthene	0.933	0.050	50.00	50.05	-0.1	20.0	PASS	PASS
Benzidine	0.445	0.050	50.00	40.36	19.3	40.0	PASS	PASS
Pyrene	0.837	0.050	50.00	50.15	-0.3	40.0	PASS	PASS
4-Terphenyl-d14	1.169	0.050	50.00	48.75	2.5	40.0	PASS	PASS
Butyl benzyl phthalate	0.990	0.050	50.00	52.20	-4.4	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.762	0.050	50.00	46.28	7.4	40.0	PASS	PASS
Benz[a]anthracene	1.539	0.050	50.00	42.67	14.7	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.953	0.050	50.00	40.22	19.6	40.0	PASS	PASS
Chrysene	1.863	0.050	50.00	45.09	9.8	40.0	PASS	PASS
Di-n-octyl phthalate	2.539	0.050	50.00	53.24	-6.5	20.0	PASS	PASS
Benzo(b)fluoranthene	1.413	0.050	50.00	48.85	2.3	40.0	PASS	PASS
Benzo[k]fluoranthene	1.517	0.050	50.00	52.20	-4.4	40.0	PASS	PASS
Benzo[a]pyrene	1.364	0.050	50.00	49.88	0.2	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.864	0.050	50.00	49.66	0.7	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.722	0.050	50.00	49.67	0.7	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.805	0.050	50.00	47.46	5.1	40.0	PASS	PASS

dam 7/2/14

7.3/14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	7/2/2014 9:13:58 AM
Calculation Date:	7/2/2014 9:47:28 AM				



After Rt update dam 7/2/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.184	430	Identified	199496	40.000
Naphthalene-d8 (I.S)	6.906	606	Identified	649048	40.000
Acenaphthene-d10 (I.S)	9.505	872	Identified	275231	40.000
Phenanthrene-d10	11.750	1103	Identified	525158	40.000
Chrysene-d12 I.S	15.766	1515	Identified	590445	40.000
Perylene-d12 I.S	17.920	1741	Identified	743528	40.000
N-nitrosodimethylamine	2.594	164	Identified	815099	53.895
Pyridine	2.639	168	Identified	2.585E6	57.034
2-Fluorophenol	3.709	278	Identified	298631	52.202
Phenol-d5	4.714	381	Identified	281243	51.639
Phenol	4.730	383	Identified	307951	50.393
Aniline	4.783	388	Identified	881236	43.166
Bis(2-chloroethyl)ether	4.837	394	Identified	520804	52.197
2-Chlorophenol	4.926	403	Identified	301042	50.455
1,3-Dichlorobenzene	5.112	422	Identified	380222	50.646
1,4-Dichlorobenzene	5.206	432	Identified	390875	54.993
Benzyl alcohol	5.351	447	Identified	291610	52.328
1,2-Dichlorobenzene	5.401	452	Identified	369775	52.772
2-Methylphenol	5.490	461	Identified	243380	50.009
Bis(2-chloroisopropyl)ether	5.507	463	Identified	355951	50.761
3+4-Methylphenol	5.695	482	Identified	288059	47.365
N-Nitrosodi-n-propylamine	5.685	481	Identified	882719	50.015
Hexachloroethane	5.840	497	Identified	1.151E6	49.795
Nitrobenzene-d5	5.913	504	Identified	250201	50.129

7-3-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.939	507	Identified	270510	52.865
Isophorone	6.244	538	Identified	500675	52.701
2-Nitrophenol	6.373	551	Identified	248112	49.254
2,4-Dimethylphenol	6.421	556	Identified	294013	49.674
Benzoic acid	6.528	567	Identified	1.483E6	43.463
Bis(2-chloroethoxy)methane	6.548	569	Identified	307564	52.359
2,4-Dichlorophenol	6.709	586	Identified	280625	48.937
1,2,4-Trichlorobenzene	6.822	598	Identified	270411	50.999
Naphthalene	6.938	610	Identified	706372	52.447
4-Chloroaniline	7.028	619	Identified	297030	47.397
Hexachlorobutadiene	7.099	626	Identified	498272	46.163
4-Chloro-3-methylphenol	7.740	691	Identified	321400	47.261
2-Methylnaphthalene	7.942	712	Identified	192733	47.162
1-Methylnaphthalene	8.089	727	Failed	195886	47.072
Hexachlorocyclopentadiene	8.166	735	Identified	354026	43.506
2,4,6-Trichlorophenol	8.373	756	Identified	116464	47.225
2,4,5-Trichlorophenol	8.430	762	Identified	109377	47.837
2-Fluorobiphenyl	8.488	768	Identified	556531	52.649
2-Chloronaphthalene	8.668	786	Identified	563991	52.361
2-Nitroaniline	8.849	805	Identified	388198	50.587
Dimethyl phthalate	9.105	831	Identified	1.067E6	53.917
2,6-Dinitrotoluene	9.208	842	Identified	239603	50.458
Acenaphthylene	9.293	850	Identified	682454	50.907
3-Nitroaniline	9.469	868	Identified	383663	51.214
Acenaphthene	9.554	877	Identified	445416	51.241
2,4-Dinitrophenol	9.618	884	Identified	745005	53.129
4-Nitrophenol	9.751	897	Identified	70973	53.310
Dibenzofuran	9.813	904	Identified	297209	46.986
2,4-Dinitrotoluene	9.814	904	Identified	121949	48.034
Diethyl phthalate	10.162	940	Identified	880155	50.946
4-Chlorophenyl phenyl ether	10.330	957	Identified	242170	42.110
Fluorene	10.329	957	Identified	874165	48.814
4-Nitroaniline	10.396	964	Identified	721442	54.213
4,6-Dinitro-2-methylphenol	10.425	967	Identified	948256	59.291
N-Nitrosodiphenylamine	10.521	977	Identified	482730	55.045
Azobenzene	10.571	982	Identified	635324	51.609
2,4,6-Tribromophenol	10.704	995	Identified	1.141E6	52.444
4-Bromophenyl phenyl ether	11.071	1033	Identified	360429	53.808
Hexachlorobenzene	11.158	1042	Identified	354113	48.793
Pentachlorophenol	11.475	1074	Identified	1.009E6	54.085
Phenanthrene	11.787	1107	Identified	690265	54.681
Anthracene	11.864	1115	Identified	697961	54.590
Carbazole	12.130	1142	Identified	646729	51.899
Di-n-butyl phthalate	12.634	1193	Identified	1.478E6	56.343
Fluoranthene	13.590	1289	Identified	612228	50.052
Benzidine	13.825	1314	Identified	328085	40.363
Pyrene	13.935	1325	Identified	617833	50.146
4-Terphenyl-d14	14.170	1349	Identified	862472	48.748
Butyl benzyl phthalate	14.910	1425	Identified	730796	52.203
3,3'-Dichlorobenzidine	15.735	1512	Identified	1.300E6	46.284

an Star Workstation - 8400 Sample List - Page 1

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam 4/28/14

TK 4-28-14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

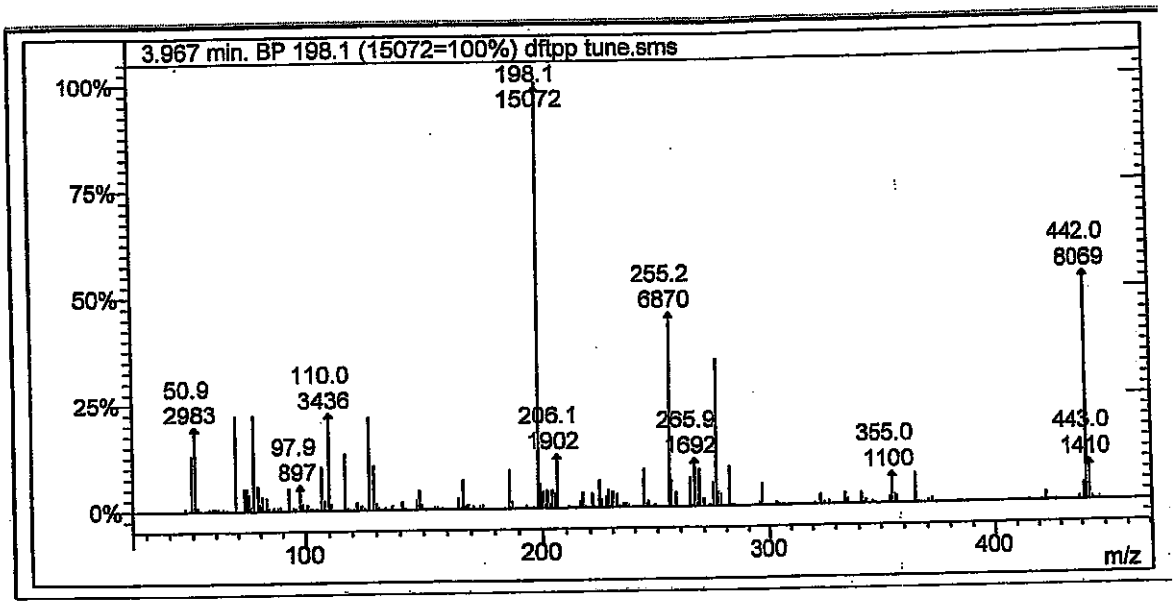
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

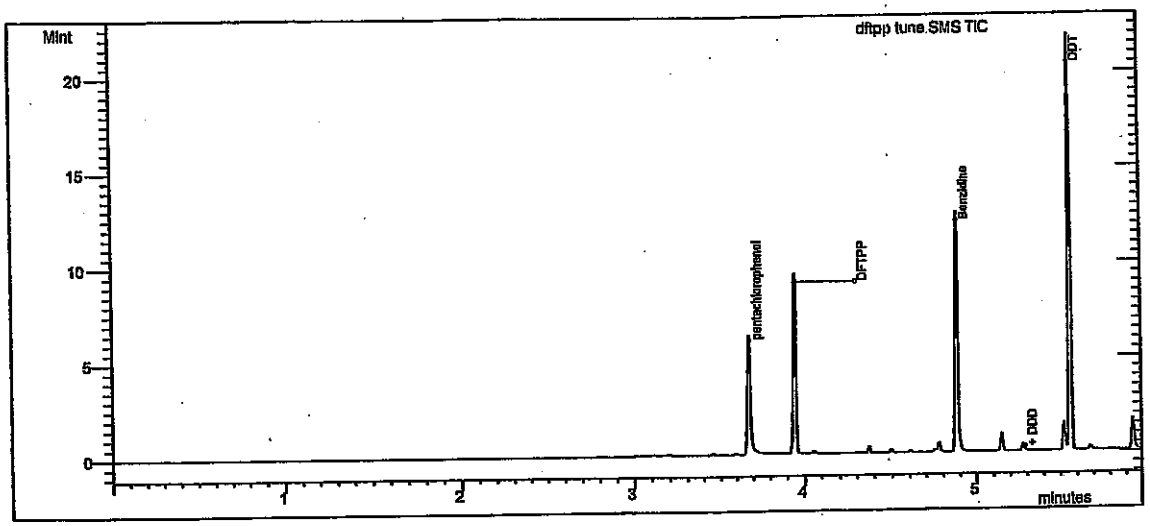
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test Compound Name	RT	Area	#
DDT	5.560	5.548E6	4
Degradation Product			
Compound Name	**RT**	**Area**	**#**
DDD	5.288	26220	5
DDE	5.007	2142	6

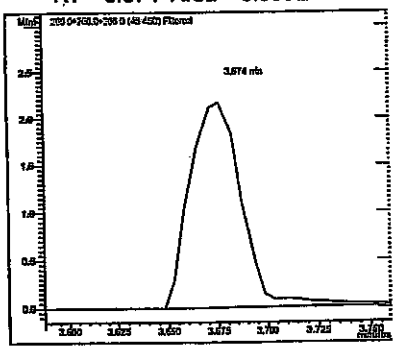
% Degradation of DDT : = .509 ✓ dam 4/28/14

TC 4-28-14

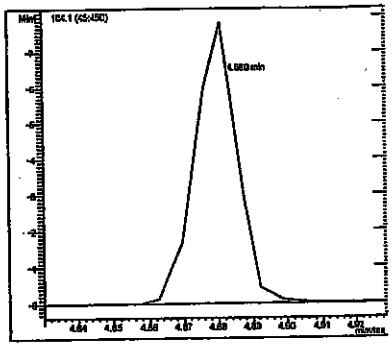
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

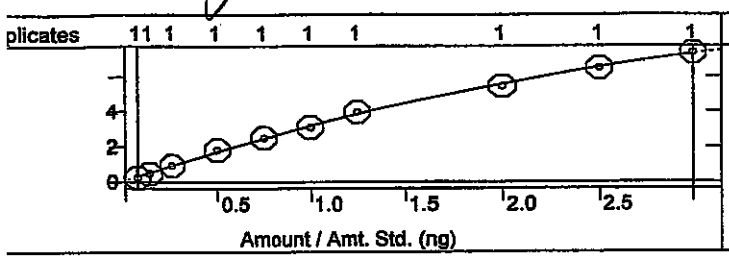
4/28/14

4.28.14

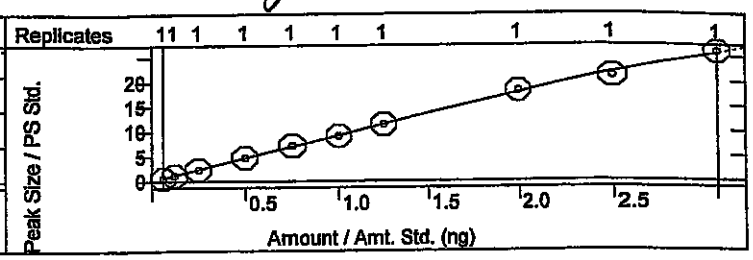
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

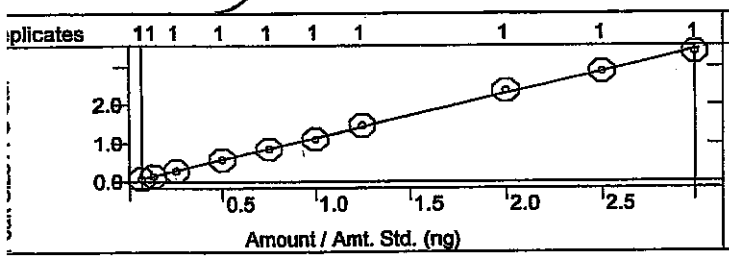
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



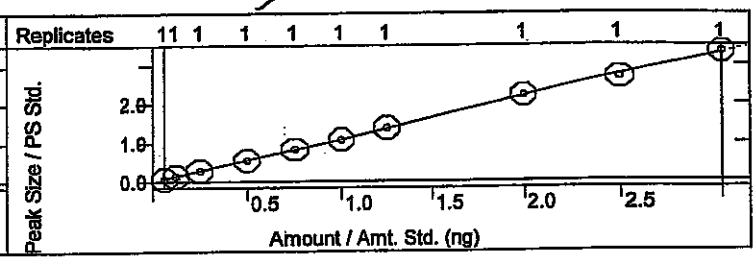
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



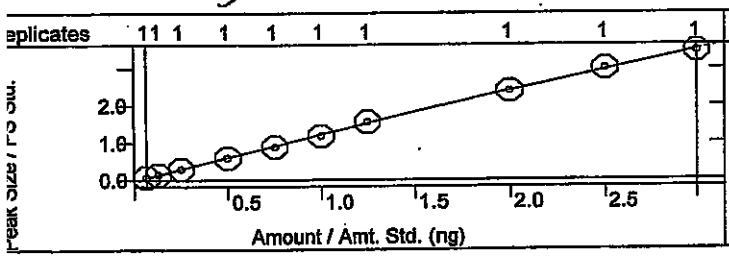
-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



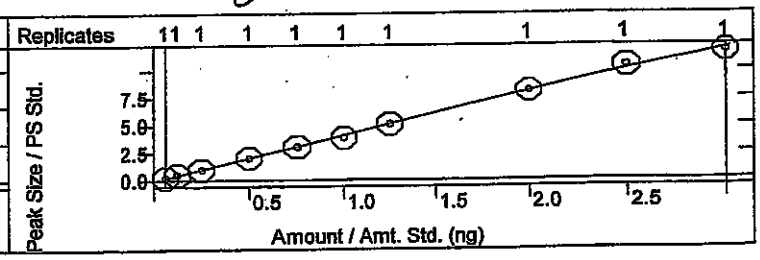
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



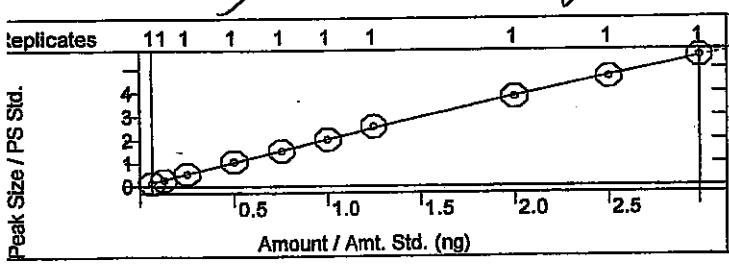
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



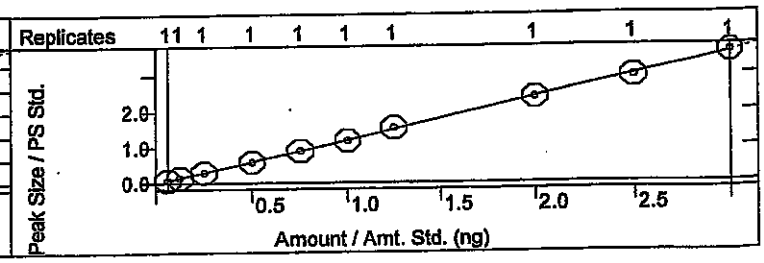
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



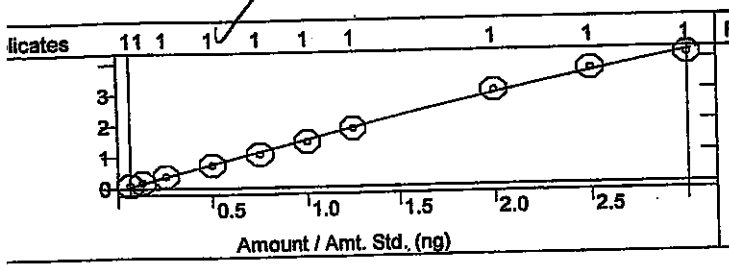
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



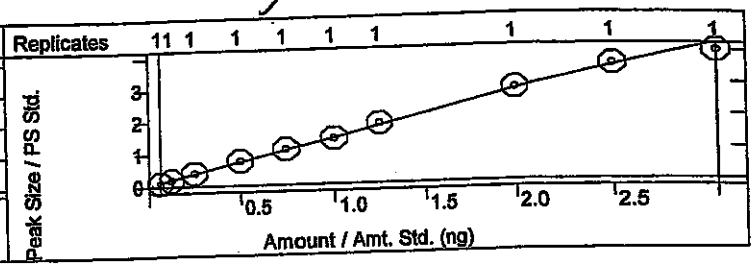
ılibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

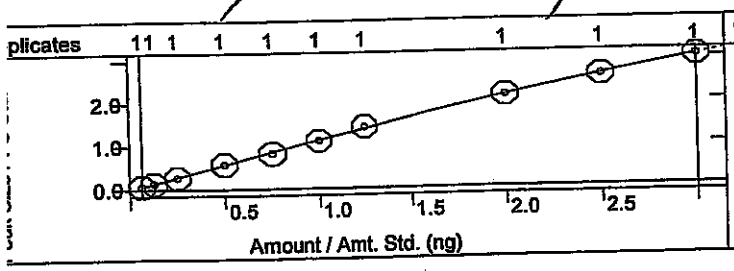
-Dichlorobenzene
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



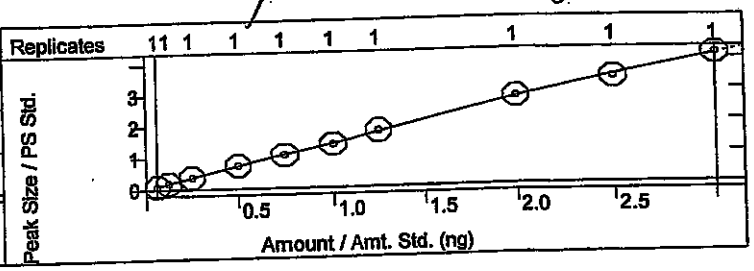
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



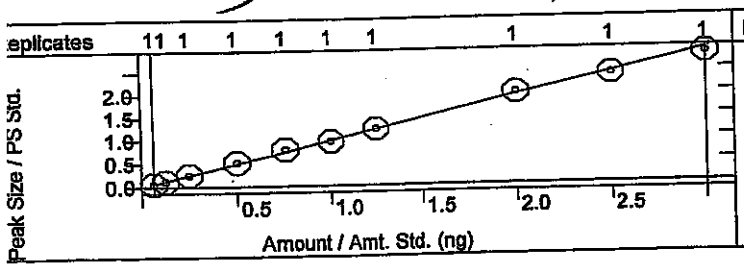
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



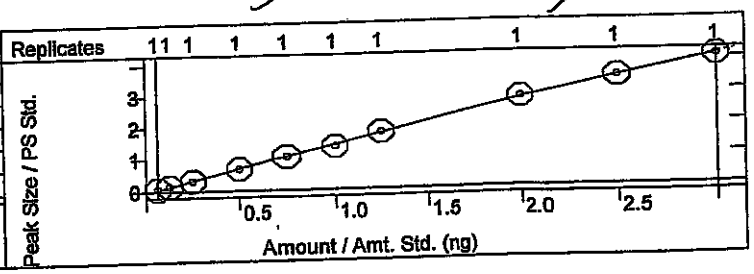
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



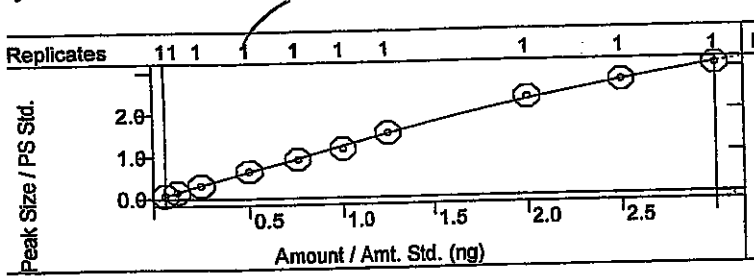
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



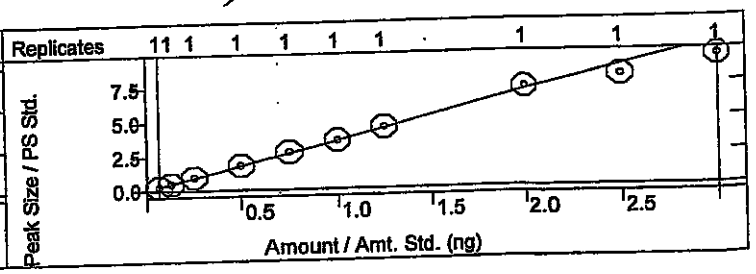
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

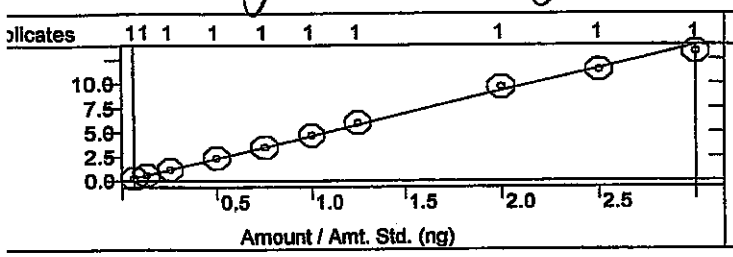


alibration Curves Report

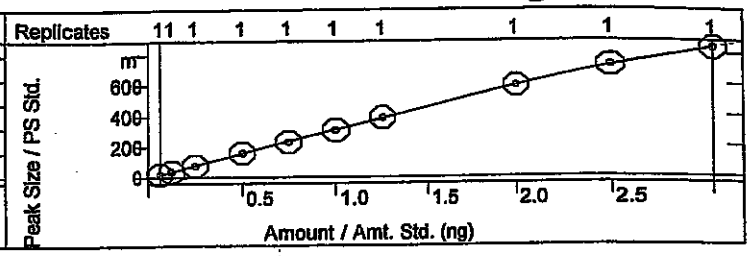
I dam 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

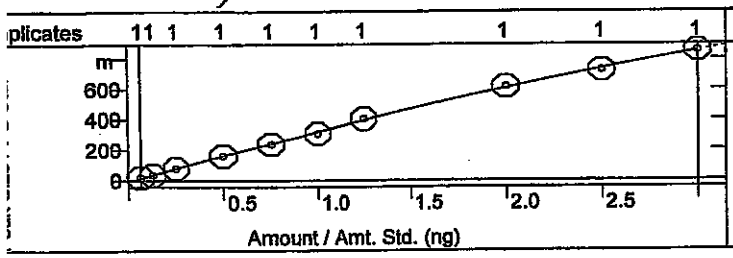
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



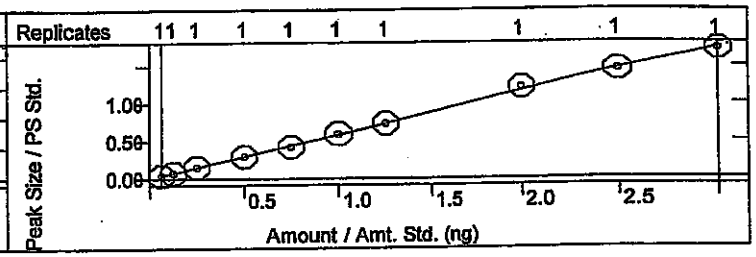
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



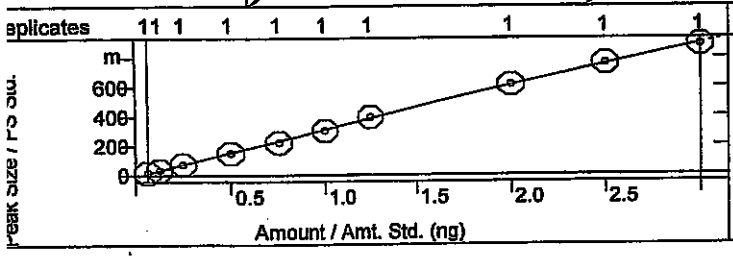
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



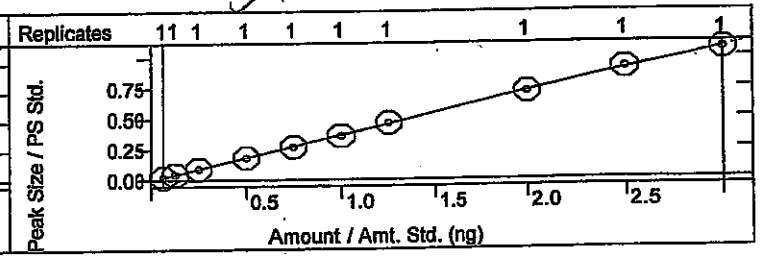
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



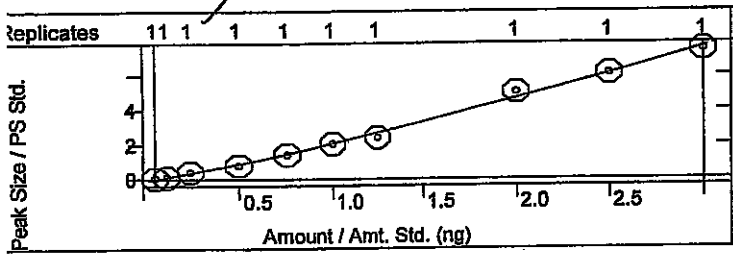
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



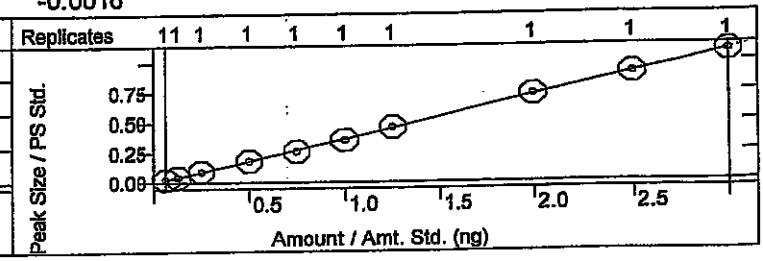
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016



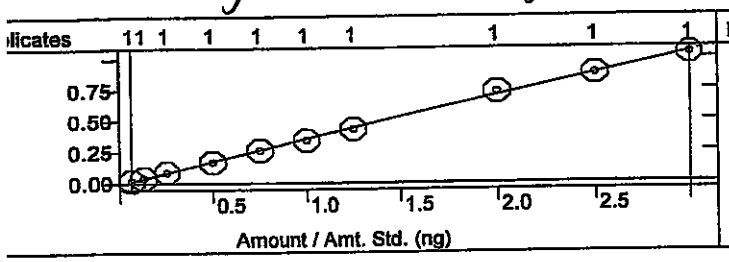
alibration Curves Report

v dlm 4/28/14

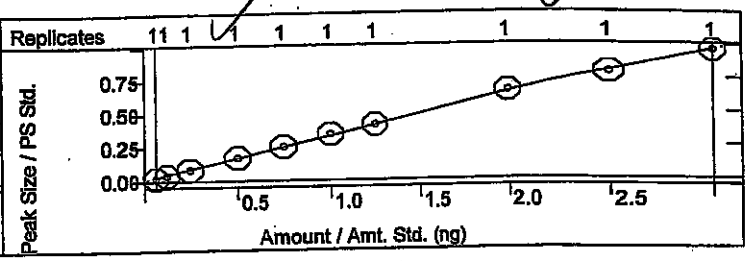
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
s Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

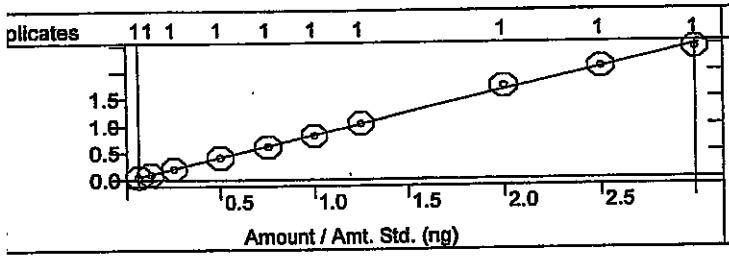
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



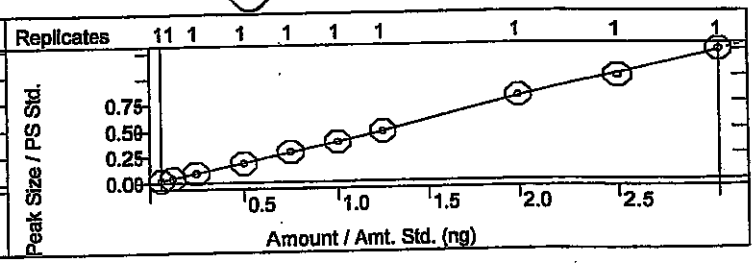
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



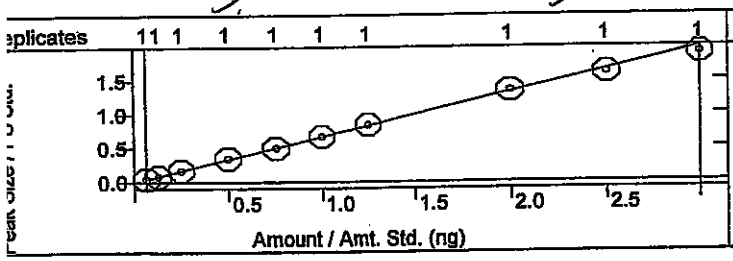
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



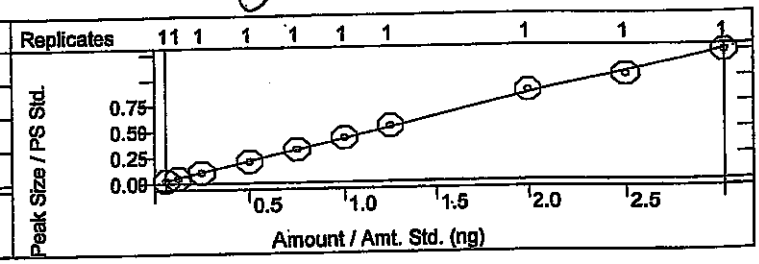
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



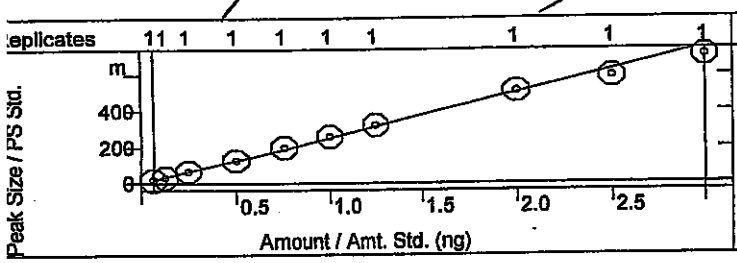
lexachlorobutadiene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



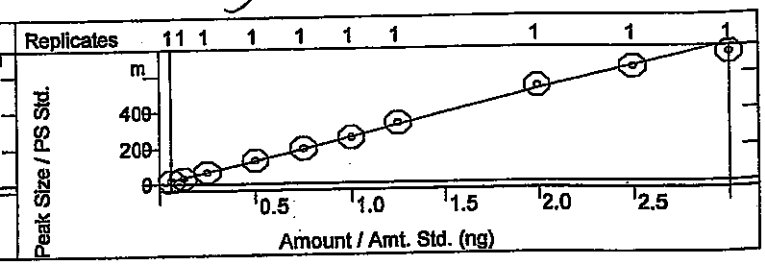
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



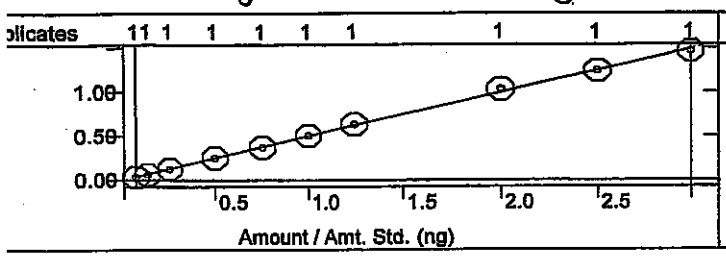
alibration Curves Report

dlm 4/28/14

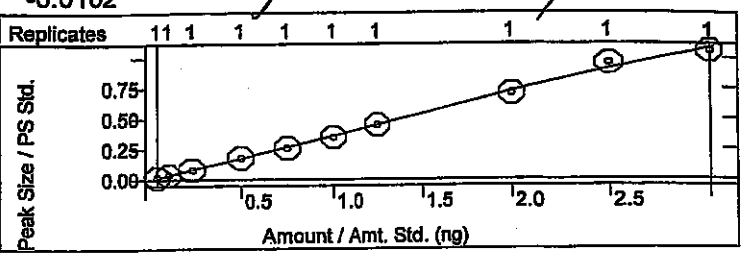
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

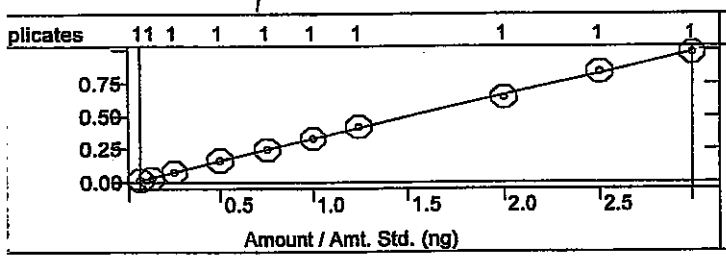
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



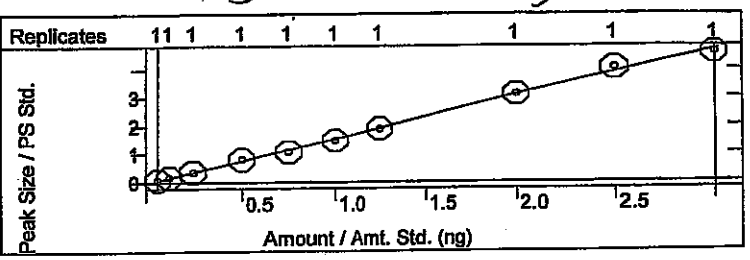
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



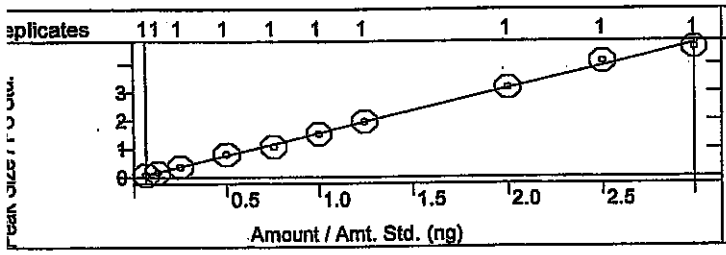
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



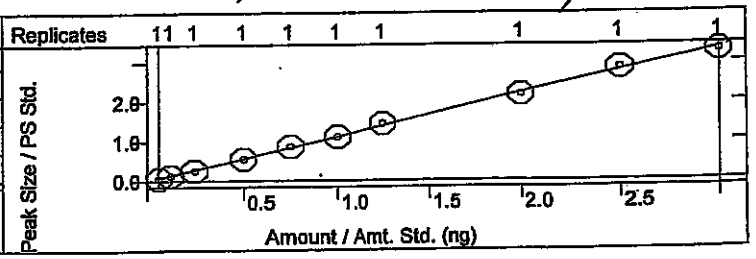
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



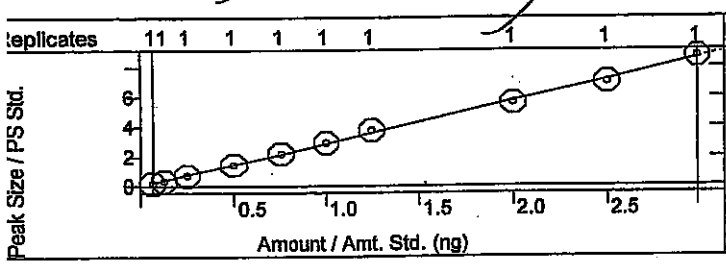
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



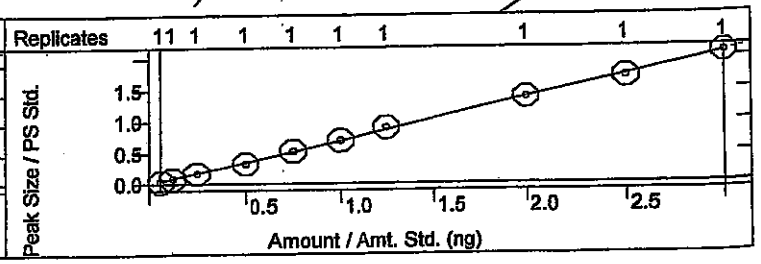
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0178



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



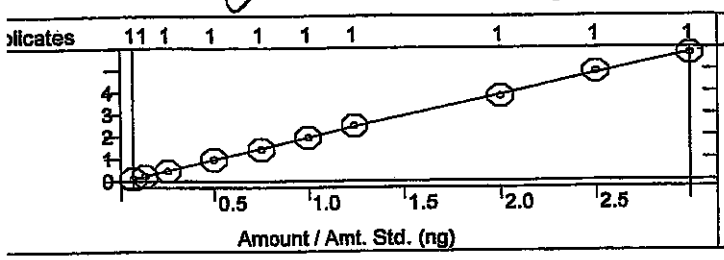
alibration Curves Report

J dm 4/28/14

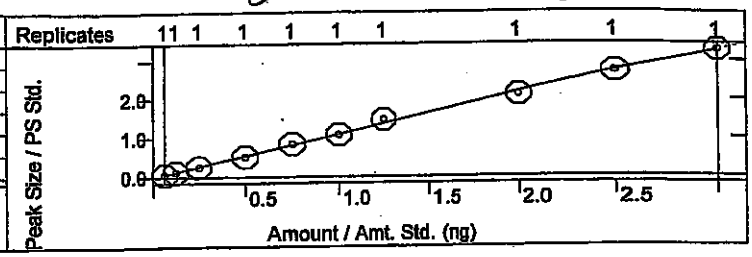
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4.28.14

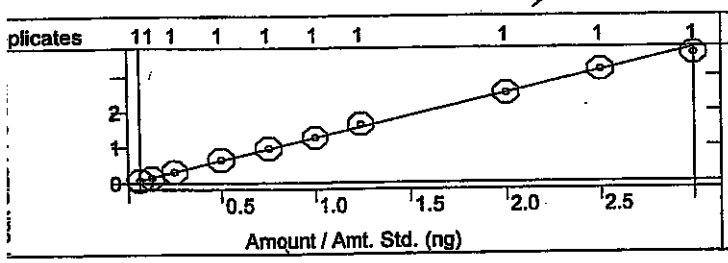
enaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



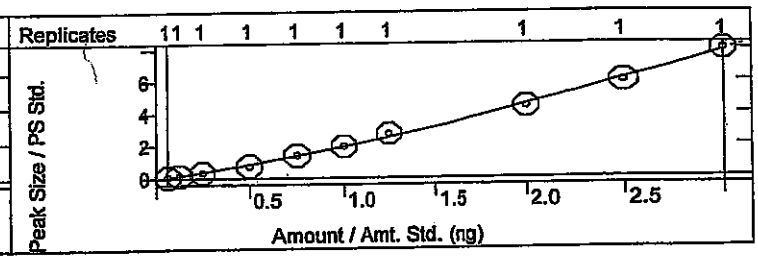
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



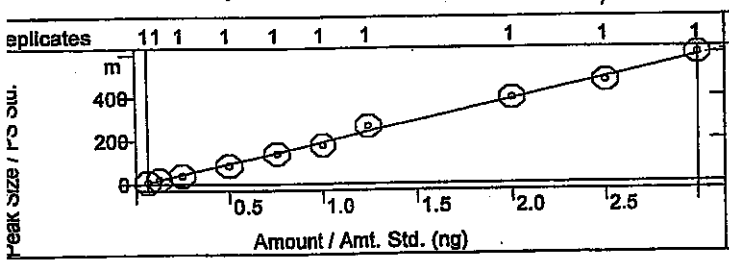
cenaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



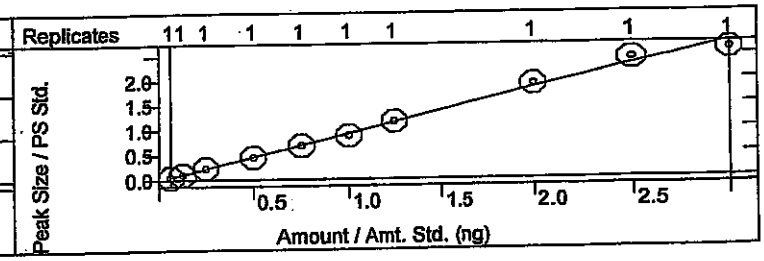
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



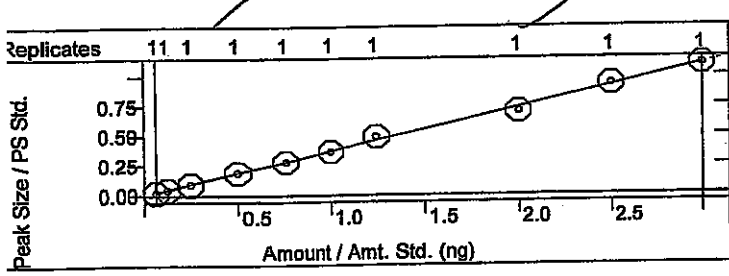
l-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
= +0.1978x -0.0058



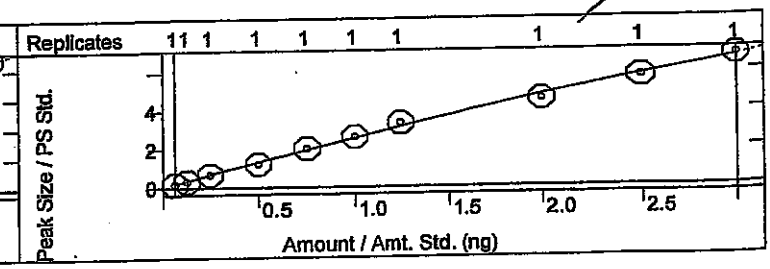
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



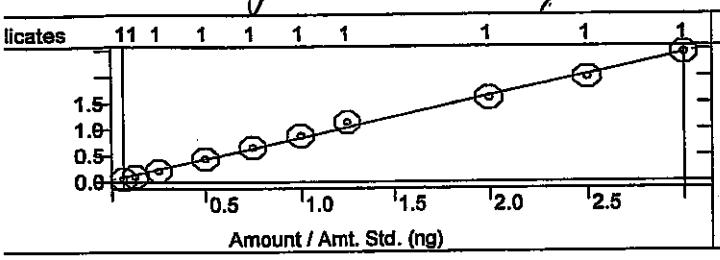
alibration Curves Report

J MH 7/20/14

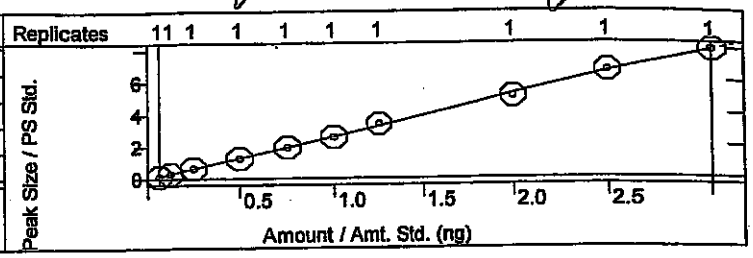
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4.28.14

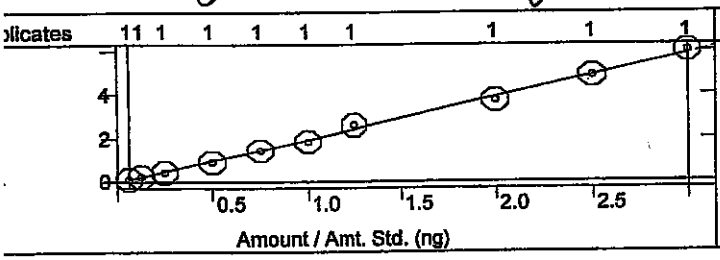
Chlorophenyl phenyl ether
irve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



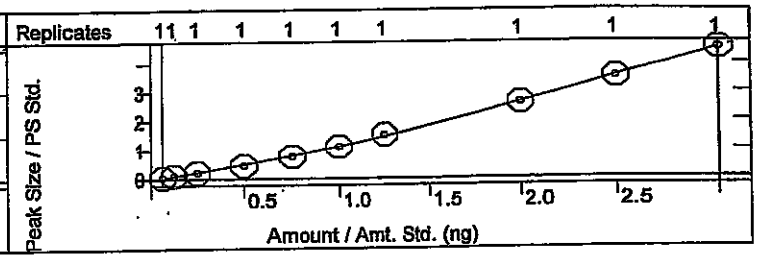
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



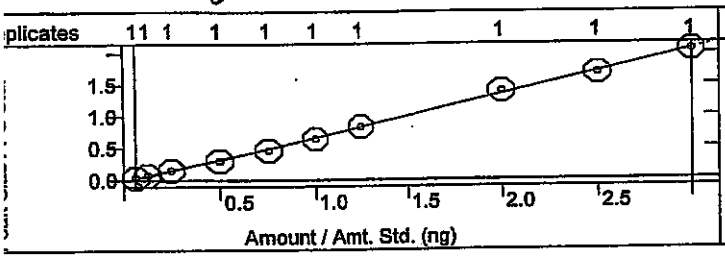
Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



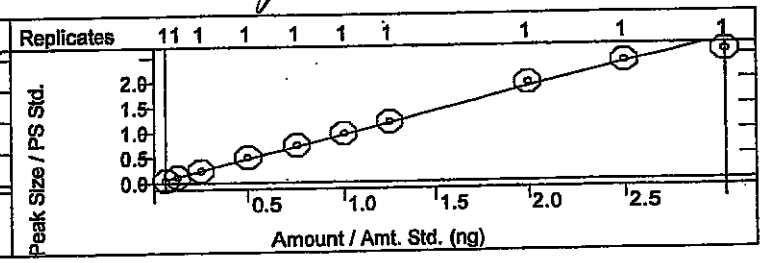
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



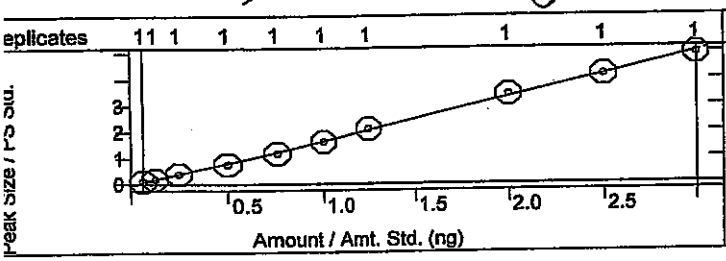
-Nitrosodiphenylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



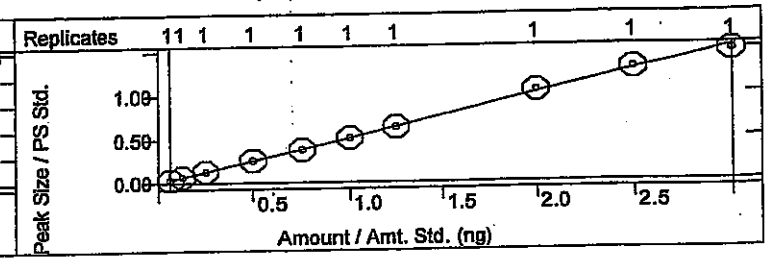
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



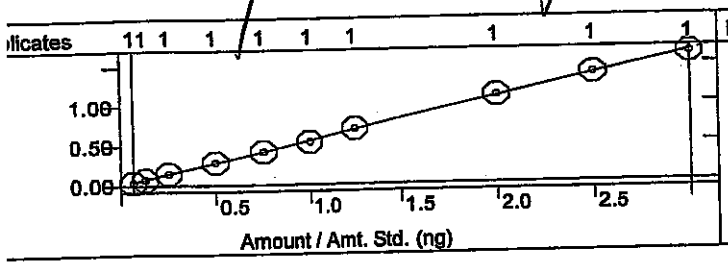
alibration Curves Report

VJdm 4/28/14

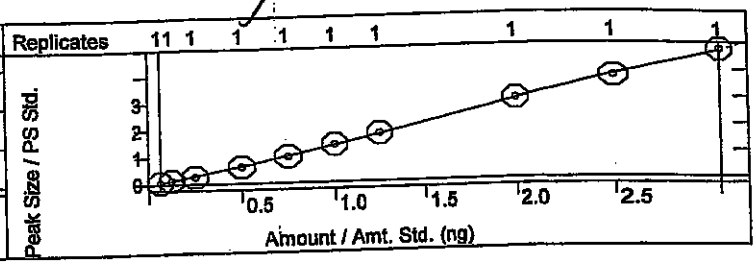
thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

JC 4-28-14

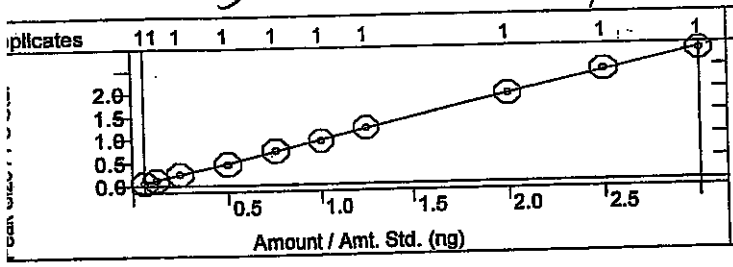
xachlorobenzene
irve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



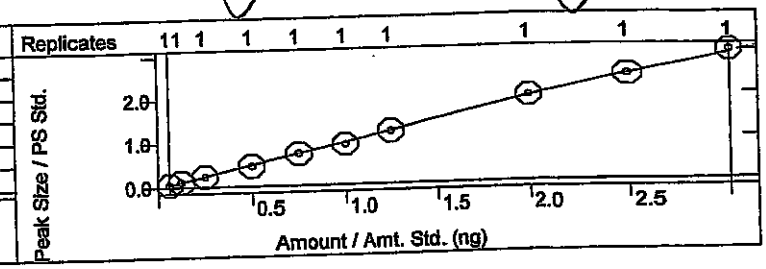
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



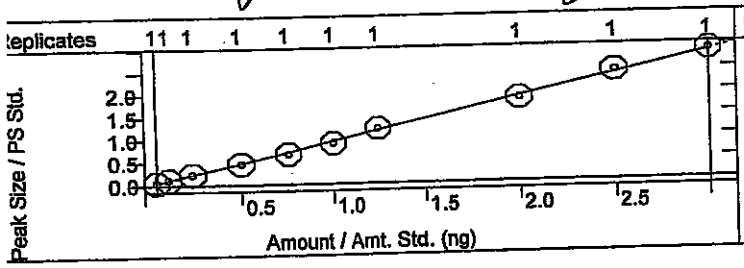
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



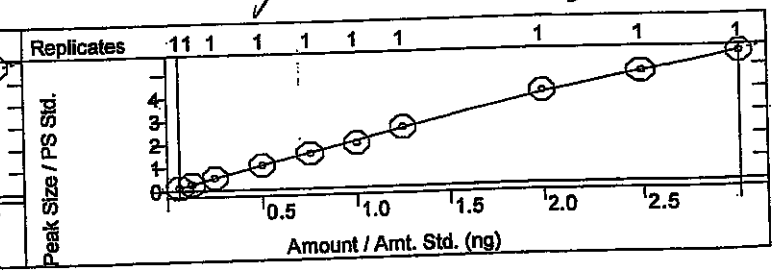
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



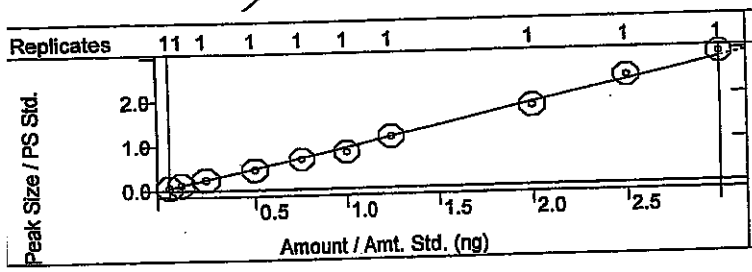
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



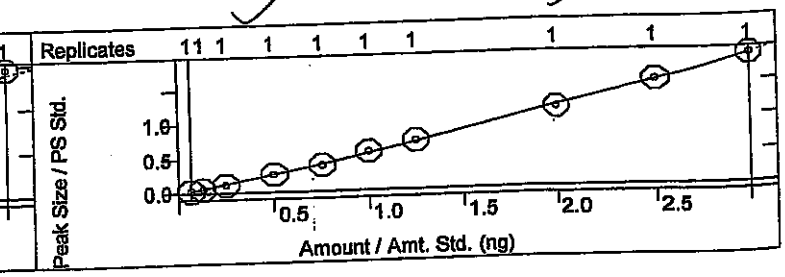
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



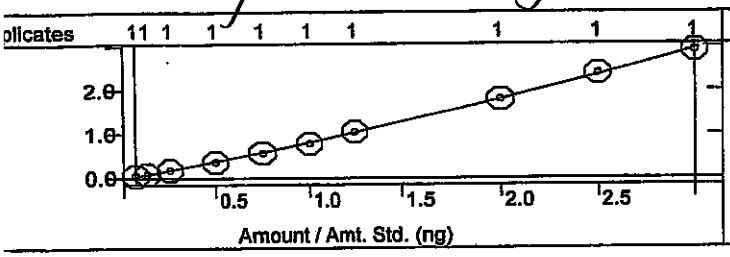
alibration Curves Report

J Allen 4/28/14

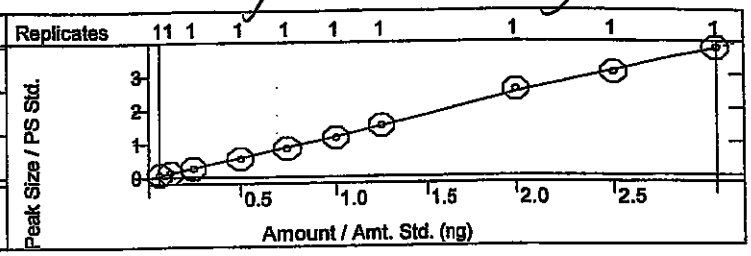
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

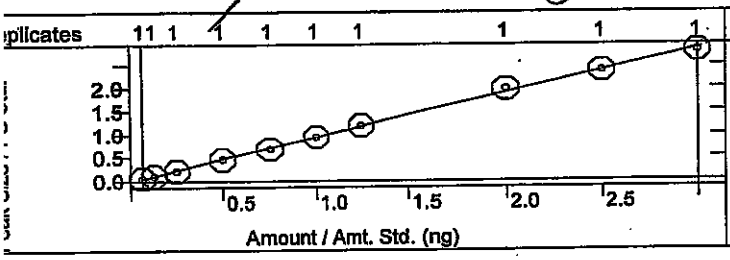
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



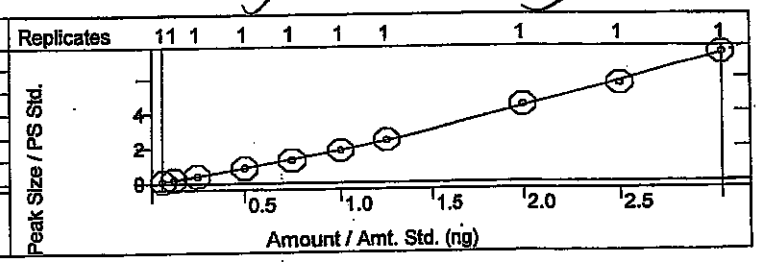
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



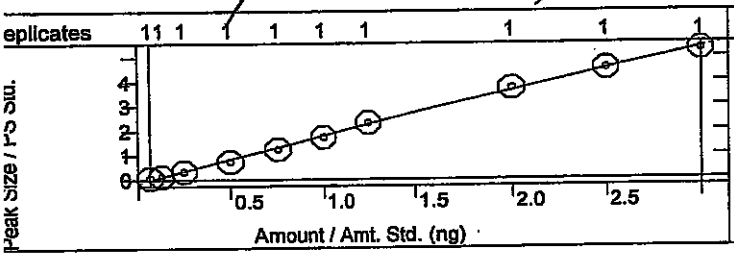
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



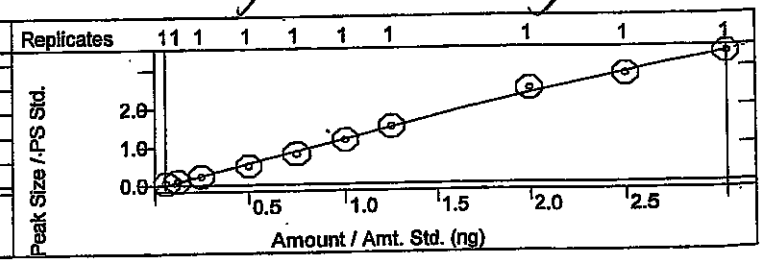
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



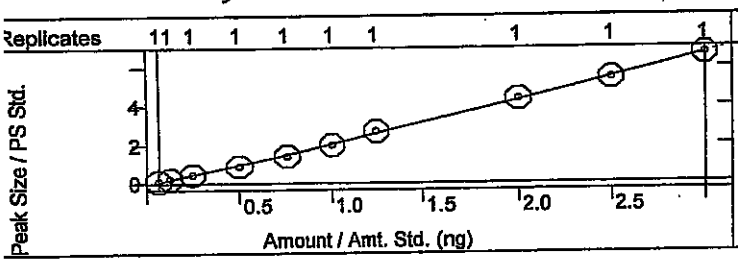
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9860x -0.1374



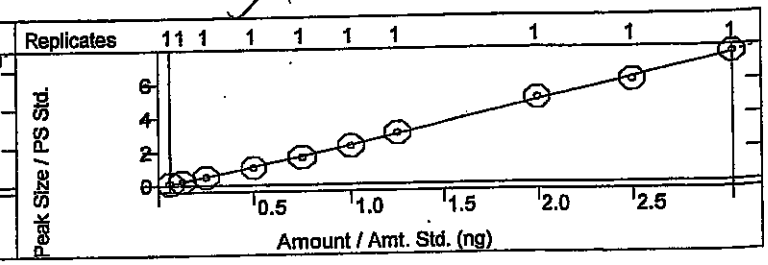
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



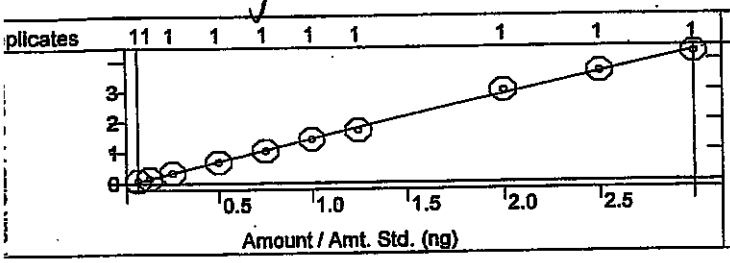
alibration Curves Report

/ dath 4/28/14

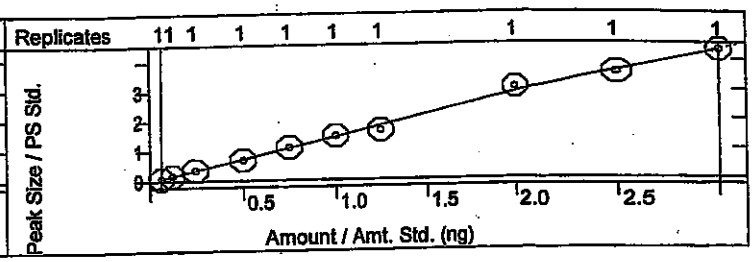
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4-28-14

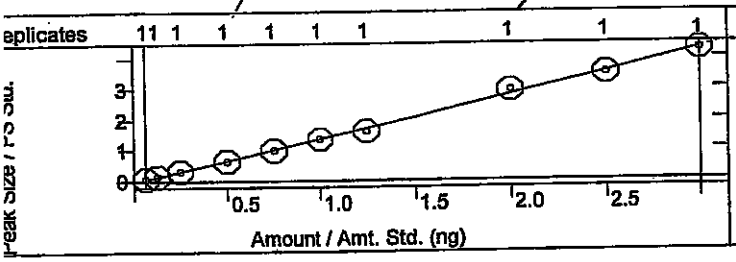
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



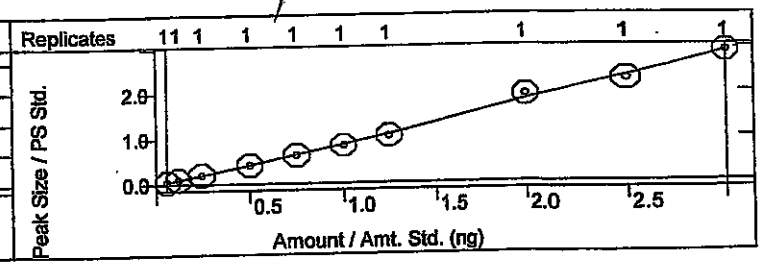
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4793x -0.0270



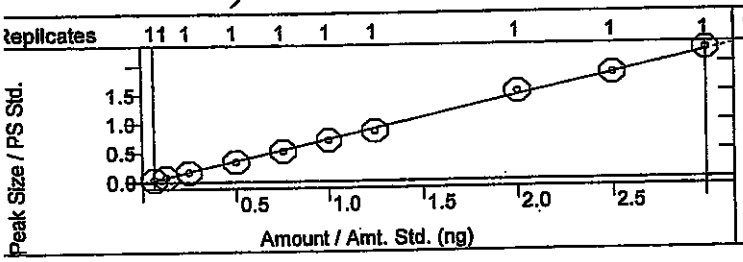
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



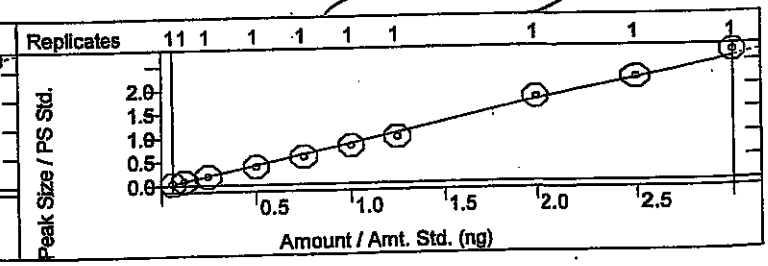
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS

RRF9	RRF10
2.397	2.657
0.190	0.200
0.970	0.871
0.372	0.365
2.285	2.265
0.796	0.815
2.678	2.673
1.939	1.999
1.408	1.514
0.674	0.682
0.949	0.858
1.664	1.647
0.516	0.494

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
RRF9	RRF10												
0.554	0.544												
1.518	1.593												
0.972	0.953												
0.975	1.000												
0.979	0.962												
1.906	1.853												
0.975	0.976												
0.612	0.627												
0.959	0.971												
1.228	1.265												
0.951	0.938												
2.262	2.483												
1.811	1.768												

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50ppm crv.SMS JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.686	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dlm 4/28/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-24-14

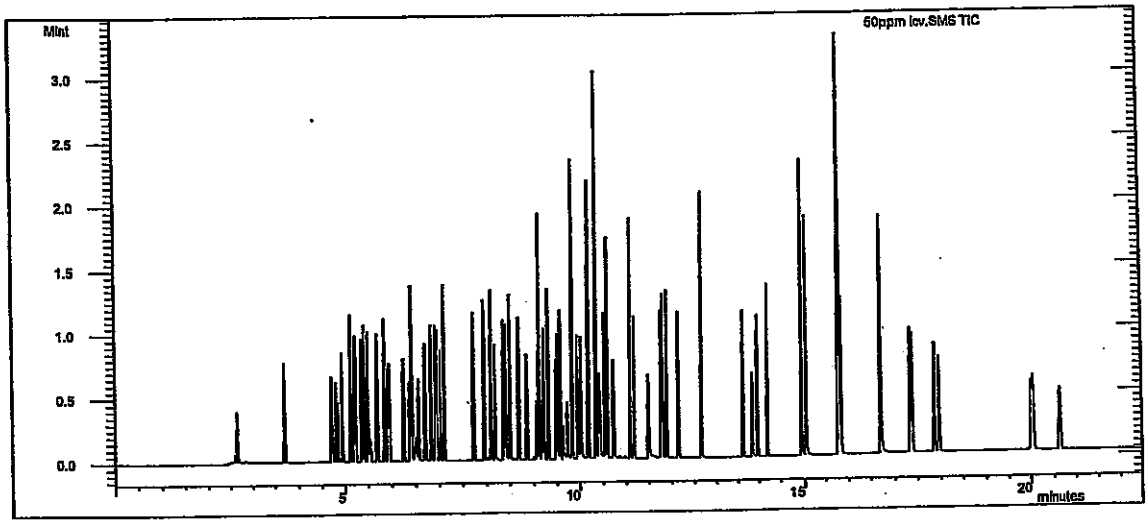
Compound	RRF	MInRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	316243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

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Revision Log

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4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

DO 7/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1406D88**
Date Reported:

R

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-001 **Collection Date:** 6/30/2014 10:29:00 AM
Client Sample ID: FFOR-CF-0001 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	14 ✓	0.28		mg/Kg-dry	1	7/2/2014 12:20:18 PM	13994

Lab ID: 1406D88-002 **Collection Date:** 6/30/2014 10:36:00 AM
Client Sample ID: FFOR-CF-0002 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	18 ✓	0.27		mg/Kg-dry	1	7/2/2014 12:28:08 PM	13994

Lab ID: 1406D88-003 **Collection Date:** 6/30/2014 10:46:00 AM
Client Sample ID: FFOR-CF-0003 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.6 ✓	0.26		mg/Kg-dry	1	7/2/2014 12:30:38 PM	13994

Lab ID: 1406D88-004 **Collection Date:** 6/30/2014 10:55:00 AM
Client Sample ID: FFOR-CF-0004 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	1.3 ✓	0.28		mg/Kg-dry	1	7/2/2014 12:37:05 PM	13994

Lab ID: 1406D88-005 **Collection Date:** 6/30/2014 11:43:00 AM
Client Sample ID: FFOR-CF-0005 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	8.1 ✓	0.28		mg/Kg-dry	1	7/2/2014 12:39:35 PM	13994

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1406D88

Lab ID: 1406D88-006 **Collection Date:** 6/30/2014 11:51:00 AM
Client Sample ID: FFOR-CF-0006 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	12 ✓	0.26		mg/Kg-dry	1	7/2/2014 12:42:04 PM	13994

Lab ID: 1406D88-007 **Collection Date:** 6/30/2014 2:52:00 PM
Client Sample ID: FFOR-CF-0007 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	25 ✓	0.27		mg/Kg-dry	1	7/2/2014 12:44:35 PM	13994

Lab ID: 1406D88-008 **Collection Date:** 6/30/2014 2:58:00 PM
Client Sample ID: FFOR-CF-0008 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	4.0 ✓	0.26		mg/Kg-dry	1	7/2/2014 12:47:06 PM	13994

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/1/2014 8:53:34 A**
Prep End Date:

Analyst/Date: MD 7/1/14
QA'd/Date: 07/9/14

Prep Batch ID **13994** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
LCS-13994		Soil			1.0075	0	0	50	50.000	7/1/2014	
MB-13994		Soil			1.9865	0	0	50	50.000	7/1/2014	
1406D52-001A	Pond 1	Soil			1.0400	0	0	50	50.000	7/1/2014	
1406D52-002A	Pond 2	Soil			1.0284	0	0	50	50.000	7/1/2014	
1406D52-003A	Pond 2 dup	Soil			1.9960	0	0	50	50.000	7/1/2014	
1406D52-004A	Pond 4/5	Soil			1.0128	0	0	50	50.000	7/1/2014	
1406D52-005A	Pond 5/6	Soil			1.0473	0	0	50	50.000	7/1/2014	
1406D52-006A	Pond 7	Soil			1.0345	0	0	50	50.000	7/1/2014	
1406D52-007A	Pond 8	Soil			1.9711	0	0	50	50.000	7/1/2014	
1406D52-008A	Pond 9c	Soil			1.0221	0	0	50	50.000	7/1/2014	
1406D52-009A	Pond 9e	Soil			1.9530	0	0	50	50.000	7/1/2014	
1406D88-001A	FFOR-CF-0001	MeOH (Soil)			1.9866	0	0	50	50.000	7/1/2014	
1406D88-001AMS		MeOH (Soil)			1.0196	0	0	50	50.000	7/1/2014	
1406D88-001AMSD		MeOH (Soil)			1.9800	0	0	50	50.000	7/1/2014	
1406D88-002A	FFOR-CF-0002	MeOH (Soil)			1.9956	0	0	50	50.000	7/1/2014	
1406D88-003A	FFOR-CF-0003	MeOH (Soil)			1.0088	0	0	50	50.000	7/1/2014	
1406D88-004A	FFOR-CF-0004	MeOH (Soil)			1.9778	0	0	50	50.000	7/1/2014	
1406D88-005A	FFOR-CF-0005	MeOH (Soil)			1.9765	0	0	50	50.000	7/1/2014	
1406D88-006A	FFOR-CF-0006	MeOH (Soil)			1.0333	0	0	50	50.000	7/1/2014	
1406D88-007A	FFOR-CF-0007	MeOH (Soil)			1.9936	0	0	50	50.000	7/1/2014	
1406D88-008A	FFOR-CF-0008	MeOH (Soil)			1.0138	0	0	50	50.000	7/1/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4379	Hydrogen Peroxide, 30%	13707	Container-01 of 01	0	mL
Chemical	4565	Hydrochloric Acid, Trace Metal Grade	14593	Container-05 of 06	0	mL
Chemical	4619	Boiling Stones, Ultra-Pure PTFE	14783	Container-01 of 01	0	mL

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/1/2014 8:53:34 A**
Prep End Date:

Prep Batch ID **13994** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Chemical	4628	Nitric Acid Trace Metal Grade	14829	Container-01 of 06	0	mL
Chemical	4651	EnvExp Digestion Tubes 50mL	14933	Container-05 of 05	0	mL
Chemical	4679	FilterMate 2um Teflon-faced PP Filter	15014	Container-04 of 06	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST6010-14139	VHG Custom Std 801 EXP 3/31/15	LCS MS MSD	25250	Container-01 of 02	500	µL
ST6010-14161	VHG Custom Std 1101 EXP 4/30/15	LCS MS MSD	25338	Container-02 of 02	500	µL

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 13994	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4051	Tubes 5 5		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4628	HNO_3 1 10		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4505	HCl 5 10		HCl /		HCl /
	Filters /		Filters /	4679	Filters 4 10		Filters /		Filters /
				4379	H_2O_2 1 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 MD 7/1 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14101 Exp: 4/30/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: GUSTAVO Position: B2

Therm ID: DBT-28 Calibration Exp: 8/9/15

Temp: 93.2 °C CF: -0 °C = Corr. Temp: 93.2 °C

Analyst: MD Date/Time: 7/1/14 8:33

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp: _____ °C CF: _____ °C = Corr. Temp: _____ °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5018 Rm Temp (°C): 21.5 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

_____ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 7/1/14 QA'd/Date: DS 7/9/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 19039

Instrument: ~~E575~~

ICP-OES Analysis Summary

Data Imported By: EL 7/2/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 070214 B14004 **Prep Batch ID:** B14004

Calibration

	Standard ID		Standard ID		Standard ID
ST1	ST6010- 14289	ST5	ST6010- 14263	ICV	ST6010- 14292
ST2	ST6010- 14260	ST6	ST6010-	ICV CAT	ST6010- ~~OW 7/2/14~~
ST3 (CCV)	ST6010- 14293	ST7 (CCV CAT)	ST6010- JWF 7/2/14	ICS ELEM	ST6010- 14294
ST4	ST6010- 14262	ST8	ST6010-	ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14288

2% Nitric Acid

Reagent ID: 1322/1354

LCS/MS/MSD

☑ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 100ml	Wt DI (g): 0.1014	Rm Temp (°C): 21.9	Analyst: EL	
Pipette No: P20	Spike Volume: 500ml	Wt DI (g): 0.5033	Rm Temp (°C): 21.9	Analyst: EL	
Pipette No: P35	Spike Volume: 1mL	Wt DI (g): 1.0077	Rm Temp (°C): 21.9	Analyst: EL	
Pipette No: ____	Spike Volume: ____	Wt DI (g): ____	Rm Temp (°C): ____	Analyst: ____	

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
SE	1407055-001A	0.4695	50ml	50ml	5x	2.3478	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result ____ mg/L

Analyst/Date: EL 7/2/14 Qa'd by/Date: [illegible] 7/7/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ~~of~~ and ~~ln~~. 7/8/14

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Sample Information Detail Report
Document Name: 070214 B14004

File Description
Hall Design

Parameters Common to All Samples

Batch ID	070214 B14004
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-13994	MBLK
2	102	LCS-13994	LCS
3	103	MB-14004	MBLK
4	104	LCS-14004	LCS
5	105	MB-13972	MBLK
6	106	LCS-13972	LCS
7	107	MB-13973	MBLK
8	108	LCS-13973	LCS
9	109	MB-13974	MBLK
10	110	LCS-13974	LCS
11	111	MB-13999	MBLK
12	112	LCS-13999	LCS
13	113	1406A15-001A	SAMP
14	114	1406A15-001AMS	MS
15	115	1406A15-001AMSD	MSD
16	116	1406A15-001APS	PS
17	117	1406C66-002A	SAMP
18	118	1406C66-002AMS	MS
19	119	1406C66-002AMSD	MSD
20	120	1406C66-002APS	PS
21	121	1406C66-007A	SAMP
22	122	1406C66-008A	SAMP
23	123	1406C66-009A	SAMP
24	124	1406C66-010A	SAMP
25	125	1406C66-011A	SAMP
26	126	1406C66-012A	SAMP
27	127	1406C75-001A	SAMP
28	128	1407055-001A 5X	SAMP
29	129	1407055-001AMS 5X	MS
30	130	1407055-001AMSD 5X	MSD
31	131	1407055-002A	SAMP
32	132	1406D88-001A	SAMP
33	133	1406D88-001AMS	MS
34	134	1406D88-001AMSD	MSD
35	135	1406D88-001A 2X	SAMP
36	136	1406D88-001AMS 2X	MS
37	137	1406D88-001AMSD 2X	MSD
38	138	1406D88-002A	SAMP
39	139	1406D88-002A 2X	SAMP
40	140	1406D88-003A	SAMP
41	141	1406D88-003A 2X	SAMP
42	142	1406D88-004A	SAMP
43	143	1406D88-004A 2X	SAMP
44	144	1406D88-005A	SAMP
45	145	1406D88-005A 2X	SAMP
46	146	1406D88-006A	SAMP
47	147	1406D88-006A 2X	SAMP
48	148	1406D88-007A	SAMP
49	149	1406D88-007A 2X	SAMP
50	150	1406D88-008A	SAMP
51	151	1406D88-008A 2X	SAMP
52	152	1406D52-001A	SAMP
53	153	1406D52-001A 2X	SAMP
54	154	1406D52-002A	SAMP

55	155	1406D52-002A 2X	SAMP
56	156	1406D52-003A	SAMP
57	157	1406D52-003A 2X	SAMP
58	158	1406D52-004A	SAMP
59	159	1406D52-004A 2X	SAMP
60	160	1406D52-005A	SAMP
61	301	1406D52-005A 2X	SAMP
62	302	1406D52-006A	SAMP
63	303	1406D52-006A 2X	SAMP
64	304	1406D52-007A	SAMP
65	305	1406D52-007A 2X	SAMP
66	306	1406D52-008A	SAMP
67	307	1406D52-008A 2X	SAMP
68	308	1406D52-009A	SAMP
69	309	1406D52-009A 2X	SAMP
71	310	1406A15-001A 2X	SAMP
72	311	1406A15-001AMS 2X	MS
73	312	1406A15-001AMSD 2X	MSD
74	313	1406A15-001APS 2X	PS
75	314	1406C85-001A	SAMP
76	315	1406C85-001AMS	MS
77	316	1406C85-001AMSD	MSD
78	317	1406C85-002A	SAMP
79	318	1406C85-003A	SAMP
80	319	1406C85-004A	SAMP
81	320	1406C86-001A	SAMP
82	321	1406C86-002A	SAMP
83	322	1406C86-003A	SAMP
84	323	1406C86-004A	SAMP
85	324	1406C88-001A	SAMP
86	325	1406C88-002A	SAMP
87	326	1406C88-003A	SAMP
88	327	1406C88-004A	SAMP
89	328	1406C93-001A	SAMP
90	329	1406C93-002A	SAMP
91	330	1406C93-003A	SAMP
92	331	1406C93-004A	SAMP
93	332	1406D18-001A	SAMP
94	333	1406D18-002A	SAMP
95	334	1406D18-003A	SAMP
96	335	1406D18-004A	SAMP
97	336	1406C96-001A	SAMP
98	337	1406C96-002A	SAMP
99	338	1406C96-002AMS	MS
100	339	1406C96-002AMSD	MSD
101	340	1406C96-003A	SAMP
102	341	1406C96-004A	SAMP
103	342	1406C98-001A	SAMP
104	343	1406C98-002A	SAMP
105	344	1406C98-003A	SAMP
106	345	1406C98-004A	SAMP
107	346	1406C99-001A	SAMP
108	347	1406C99-002A	SAMP
109	348	1406C99-003A	SAMP
110	349	1406C99-004A	SAMP
111	350	1406D00-001A	SAMP
112	351	1406D00-002A	SAMP
113	352	1406D00-003A	SAMP
114	353	1406D00-004A	SAMP
115	354	1406D01-001A	SAMP
116	355	1406D01-002A	SAMP
117	356	1406D01-003A	SAMP
118	357	1406D01-004A	SAMP
119	358	1406D02-01A	SAMP
120	359	1406D02-001AMS	MS
121	360	1406D02-001AMSD	MSD
122	101	1406D02-002A	SAMP

123	102	1406D02-003A	SAMP
124	103	1406D02-004A	SAMP
125	104	1406D03-001A	SAMP
126	105	1406D03-002A	SAMP
127	106	1406D03-003A	SAMP
128	107	106D03-004A	SAMP
129	108	1406D16-001A	SAMP
130	109	1406D16-002A	SAMP
131	110	1406D16-003A	SAMP
132	111	1406D16-004A	SAMP
133	112	1406D30-001A	SAMP
134	113	106D30-001AMS	MS
135	114	1406D30-001AMSD	MSD
136	115	1406D30-002A	SAMP
137	116	1406D30-003A	SAMP
138	117	1406D30-004A	SAMP
139	118	1406D32-001A	SAMP
140	119	1406D32-002A	SAMP
141	120	1406D32-003A	SAMP
142	121	1406D32-004A	SAMP
143	12	BLANK	
144	12	BLANK	
145	12	BLANK	
146	12	BLANK	
147	12	BLANK	
148	122	1406C85-001A 50X	SAMP
149	123	1406C85-002A 50X	SAMP
150	124	1406C85-003A 50X	SAMP
151	125	1406C85-004A 50X	SAMP
152	126	1406C86-001A 50X	SAMP
153	127	1406C86-002A 100X	SAMP
154	128	1406C86-003A 50X	SAMP
155	129	1406C86-004A 100X	SAMP
156	130	1406C88-001A 20X	SAMP
157	131	1406C88-002A 20X	SAMP
158	132	1406C88-003A 20X	SAMP
159	133	1406C88-004A 20X	SAMP
160	134	1406C93-001A 50X	SAMP
161	135	1406C93-002A 50X	SAMP
162	136	1406C93-003A 50X	SAMP
163	137	1406C93-004A 50X	SAMP
164	138	1406D18-001A 2X	SAMP
165	139	1406D18-001A 10X	SAMP
166	140	1406D18-002A 2X	SAMP
167	141	1406D18-002A 10X	SAMP
168	142	1406D18-003A 100X	SAMP
169	143	1406D18-004A 100X	SAMP
170	12	BLANK	
171	144	MB-14018	MBLK
172	145	LCS-14018	LCS
173	146	1407055-001A	SAMP
174	147	1407055-002A	SAMP
175	148	1407055-002AMS	MS
176	149	1407055-002AMSD	MSD
177	12	BLANK	
178	150	1407055-001A 5X	SAMP
179	151	1406C96-001A 50X	SAMP
180	152	1406C96-002A 10X	SAMP
181	153	1406C96-003A 50X	SAMP
182	154	1406C96-004A 10X	SAMP
183	155	1406C98-001A 20X	SAMP
184	156	1406C98-002A 2X	SAMP
185	157	1406C98-002A 20X	SAMP
186	158	1406C98-003A 20X	SAMP
187	159	1406C98-004A 20X	SAMP
188	160	1406C99-001A 2X	SAMP
189	301	1406C99-001A 50X	SAMP

190	302	1406C99-002A 2X	SAMP
191	303	1406C99-002A 20X	SAMP
192	304	1406C99-003A 2X	SAMP
193	305	1406C99-003A 20X	SAMP
194	306	1406C99-004A 50X	SAMP
195	307	1406D00-001A 50X	SAMP
196	308	1406D00-002A 20X	SAMP
197	309	1406D00-003A 20X	SAMP
198	310	1406D00-004A 50X	SAMP
199	311	1406D01-001A 2X	SAMP
200	312	1406D01-001A 20X	SAMP
201	313	1406D01-002A 2X	SAMP
202	314	1406D01-002A 20X	SAMP
203	315	1406D01-003A 2X	SAMP
204	316	1406D01-003A 20X	SAMP
205	317	1406D01-004A 2X	SAMP
206	318	1406D01-004A 20X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP	Recovery 1 of 3	
5	METALS_SOIL		
6	METALS_SOIL	Recovery 1 of 5	
7	METALS_SOIL		
8	METALS_SOIL	Recovery 1 of 7	
9	METALS_SOIL		
10	METALS_SOIL	Recovery 1 of 9	
11	METALS_SOIL		
12	METALS_SOIL	Recovery 1 of 11	
13	METALS_SOIL		
14	METALS_SOIL	Recovery 1 of 13	
15	METALS_SOIL	Recovery 1 of 13	
16	METALS_SOIL	Recovery 1 of 13	
17	METALS_TCLP		
18	METALS_TCLP	Recovery 1 of 17	
19	METALS_TCLP	Recovery 1 of 17	
20	METALS_TCLP	Recovery 1 of 17	
21	METALS_TCLP		
22	METALS_TCLP		
23	METALS_TCLP		
24	METALS_TCLP		
25	METALS_TCLP		
26	METALS_TCLP		
27	METALS_TCLP		
28	METALS_TCLP		
29	METALS_TCLP	Recovery 1 of 28	
30	METALS_TCLP	Recovery 1 of 28	
31	METALS_TCLP		
32	METALS_SOIL		
33	METALS_SOIL	Recovery 1 of 32	
34	METALS_SOIL	Recovery 1 of 32	
35	METALS_SOIL		
36	METALS_SOIL	Recovery 1 of 35	
37	METALS_SOIL	Recovery 1 of 35	
38	METALS_SOIL		
39	METALS_SOIL		
40	METALS_SOIL		
41	METALS_SOIL		
42	METALS_SOIL		
43	METALS_SOIL		
44	METALS_SOIL		
45	METALS_SOIL		
46	METALS_SOIL		
47	METALS_SOIL		
48	METALS_SOIL		

49	METALS_SOIL	
50	METALS_SOIL	
51	METALS_SOIL	
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55	METALS_SOIL	
56	METALS_SOIL	
57	METALS_SOIL	
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59	METALS_SOIL	
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61	METALS_SOIL	
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66	METALS_SOIL	
67	METALS_SOIL	
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69	METALS_SOIL	
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93	METALS_SOIL	
94	METALS_SOIL	
95	METALS_SOIL	
96	METALS_SOIL	
97	METALS_SOIL	
98	METALS_SOIL	
99	METALS_SOIL	Recovery 1 of 98
100	METALS_SOIL	Recovery 1 of 98
101	METALS_SOIL	
102	METALS_SOIL	
103	METALS_SOIL	
104	METALS_SOIL	
105	METALS_SOIL	
106	METALS_SOIL	
107	METALS_SOIL	
108	METALS_SOIL	
109	METALS_SOIL	
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114	METALS_SOIL	
115	METALS_SOIL	
116	METALS_SOIL	

117	METALS_SOIL	
118	METALS_SOIL	
119	METALS_SOIL	
120	METALS_SOIL	Recovery 1 of 119
121	METALS_SOIL	Recovery 1 of 119
122	METALS_SOIL	
123	METALS_SOIL	
124	METALS_SOIL	
125	METALS_SOIL	
126	METALS_SOIL	
127	METALS_SOIL	
128	METALS_SOIL	
129	METALS_SOIL	
130	METALS_SOIL	
131	METALS_SOIL	
132	METALS_SOIL	
133	METALS_SOIL	
134	METALS_SOIL	Recovery 1 of 133
135	METALS_SOIL	Recovery 1 of 133
136	METALS_SOIL	
137	METALS_SOIL	
138	METALS_SOIL	
139	METALS_SOIL	
140	METALS_SOIL	
141	METALS_SOIL	
142	METALS_SOIL	
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148	METALS_SOIL	
149	METALS_SOIL	
150	METALS_SOIL	
151	METALS_SOIL	
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156	METALS_SOIL	
157	METALS_SOIL	
158	METALS_SOIL	
159	METALS_SOIL	
160	METALS_SOIL	
161	METALS_SOIL	
162	METALS_SOIL	
163	METALS_SOIL	
164	METALS_SOIL	
165	METALS_SOIL	
166	METALS_SOIL	
167	METALS_SOIL	
168	METALS_SOIL	
169	METALS_SOIL	
170		
171	NAVAJO_TOTAL METALS	
172	NAVAJO_TOTAL METALS	Recovery 1 of 171
173	NAVAJO_TOTAL METALS	
174	NAVAJO_TOTAL METALS	
175	NAVAJO_TOTAL METALS	Recovery 1 of 174
176	NAVAJO_TOTAL METALS	Recovery 1 of 174
177		
178	NAVAJO_TOTAL METALS	
179	METALS_SOIL	
180	METALS_SOIL	
181	METALS_SOIL	
182	METALS_SOIL	
183	METALS_SOIL	

184	METALS_SOIL
185	METALS_SOIL
186	METALS_SOIL
187	METALS_SOIL
188	METALS_SOIL
189	METALS_SOIL
190	METALS_SOIL
191	METALS_SOIL
192	METALS_SOIL
193	METALS_SOIL
194	METALS_SOIL
195	METALS_SOIL
196	METALS_SOIL
197	METALS_SOIL
198	METALS_SOIL
199	METALS_SOIL
200	METALS_SOIL
201	METALS_SOIL
202	METALS_SOIL
203	METALS_SOIL
204	METALS_SOIL
205	METALS_SOIL
206	METALS_SOIL

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
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Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
1	401	QC	ICV	
2	402	QC	ICV CAT	
3	1	QC	ICB	
4	408	QC	PQL CHECK	
5	403	QC	ICS ELEM	
6	404	QC	ICS	
7	101	T	MB-13994	
8	102	T	LCS-13994	
9	103	T	MB-14004	
10	104	T	LCS-14004	
11	105	T	MB-13972	
12	106	T	LCS-13972	
13	107	T	MB-13973	
14	108	T	LCS-13973	
15	109	T	MB-13974	
16	110	T	LCS-13974	
17	2	QC	CCV	
18	1	QC	CCB	
19	3	QC	CCV CAT	
20	111	T	MB-13999	
21	112	T	LCS-13999	
22	113	T	1406A15-001A	
23	114	T	1406A15-001AMS	
24	115	T	1406A15-001AMSD	
25	116	T	1406A15-001APS	
26	117	T	1406C66-002A	
27	118	T	1406C66-002AMS	
28	119	T	1406C66-002AMSD	
29	120	T	1406C66-002APS	
30	2	QC	CCV	
31	1	QC	CCB	
32	3	QC	CCV CAT	
33	121	T	1406C66-007A	
34	122	T	1406C66-008A	
35	123	T	1406C66-009A	
36	124	T	1406C66-010A	
37	125	T	1406C66-011A	
38	126	T	1406C66-012A	
39	127	T	1406C75-001A	
40	128	T	1407055-001A 5X	
41	129	T	1407055-001AMS 5X	
42	130	T	1407055-001AMSD 5X	
43	2	QC	CCV	
44	1	QC	CCB	
45	3	QC	CCV CAT	
46	131	T	1407055-002A	
47	132	T	1406D88-001A	
48	133	T	1406D88-001AMS	
49	134	T	1406D88-001AMSD	
50	135	T	1406D88-001A 2X	
51	136	T	1406D88-001AMS 2X	
52	137	T	1406D88-001AMSD 2X	
53	138	T	1406D88-002A	
54	139	T	1406D88-002A 2X	
55	140	T	1406D88-003A	

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	2	QC	CCV	
57	1	QC	CCB	
58	3	QC	CCV CAT	
59	141		1406D88-003A 2X	
60	142		1406D88-004A	
61	143		1406D88-004A 2X	
62	144		1406D88-005A	
63	145		1406D88-005A 2X	
64	146		1406D88-006A	
65	147		1406D88-006A 2X	
66	148		1406D88-007A	
67	149		1406D88-007A 2X	
68	150		1406D88-008A	
69	2	QC	CCV	
70	1	QC	CCB	
71	3	QC	CCV CAT	
72	151		1406D88-008A 2X	
73	152		1406D52-001A	
74	153		1406D52-001A 2X	
75	154		1406D52-002A	
76	155		1406D52-002A 2X	
77	156		1406D52-003A	
78	157		1406D52-003A 2X	
79	158		1406D52-004A	
80	159		1406D52-004A 2X	
81	160		1406D52-005A	
82	2	QC	CCV	
83	1	QC	CCB	
84	3	QC	CCV CAT	
85	301		1406D52-005A 2X	
86	302		1406D52-006A	
87	303		1406D52-006A 2X	
88	304		1406D52-007A	
89	305		1406D52-007A 2X	
90	306		1406D52-008A	
91	307		1406D52-008A 2X	
92	308		1406D52-009A	
93	309		1406D52-009A 2X	
94	310		1406A15-001A 2X	
95	2	QC	CCV	
96	1	QC	CCB	
97	3	QC	CCV CAT	
98	311		1406A15-001AMS 2X	
99	312		1406A15-001AMSD 2X	
100	313		1406A15-001APS 2X	
101	314		1406C85-001A	
102	315		1406C85-001AMS	
103	316		1406C85-001AMSD	
104	317		1406C85-002A	
105	318		1406C85-003A	
106	319		1406C85-004A	
107	320		1406C86-001A	
108	2	QC	CCV	
109	1	QC	CCB	
110	3	QC	CCV CAT	

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
111	321		1406C86-002A	
112	322		1406C86-003A	
113	323		1406C86-004A	
114	324		1406C88-001A	
115	325		1406C88-002A	
116	326		1406C88-003A	
117	327		1406C88-004A	
118	328		1406C93-001A	
119	329		1406C93-002A	
120	330		1406C93-003A	
121	2		CCV	
122	1		CCB	
123	3		CCV CAT	
124	331		1406C93-004A	
125	332		1406D18-001A	
126	333		1406D18-002A	
127	334		1406D18-003A	
128	335		1406D18-004A	
129	336		1406C96-001A	
130	337		1406C96-002A	
131	338		1406C96-002AMS	
132	339		1406C96-002AMSD	
133	340		1406C96-003A	
134	2		CCV	
135	1		CCB	
136	3		CCV CAT	
137	341		1406C96-004A	
138	342		1406C98-001A	
139	343		1406C98-002A	
140	344		1406C98-003A	
141	345		1406C98-004A	
142	346		1406C99-001A	
143	347		1406C99-002A	
144	348		1406C99-003A	
145	349		1406C99-004A	
146	350		1406D00-001A	
147	2		CCV	
148	1		CCB	
149	3		CCV CAT	
150	351		1406D00-002A	
151	352		1406D00-003A	
152	353		1406D00-004A	
153	354		1406D01-001A	
154	355		1406D01-002A	
155	356		1406D01-003A	
156	357		1406D01-004A	
157	358		1406D02-01A	
158	359		1406D02-001AMS	
159	360		1406D02-001AMSD	
160	2		CCV	
161	1		CCB	
162	3		CCV CAT	
163	101		1406D02-002A	
164	102		1406D02-003A	
165	103		1406D02-004A	

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
166	104	1406D03-001A	
167	105	1406D03-002A	
168	106	1406D03-003A	
169	107	106D03-004A	
170	108	1406D16-001A	
171	109	1406D16-002A	
172	110	1406D16-003A	
173	2	CCV	
174	1	CCB	
175	3	CCV CAT	
176	111	1406D16-004A	
177	112	1406D30-001A	
178	113	106D30-001AMS	
179	114	1406D30-001AMSD	
180	115	1406D30-002A	
181	116	1406D30-003A	
182	117	1406D30-004A	
183	118	1406D32-001A	
184	119	1406D32-002A	
185	120	1406D32-003A	
186	2	CCV	
187	1	CCB	
188	3	CCV CAT	
189	121	1406D32-004A	
190	12	BLANK	
191	12	BLANK	
192	12	BLANK	
193	12	BLANK	
194	12	BLANK	
195	122	1406C85-001A 50X	
196	123	1406C85-002A 50X	
197	124	1406C85-003A 50X	
198	125	1406C85-004A 50X	
199	2	CCV	
200	1	CCB	
201	3	CCV CAT	
202	126	1406C86-001A 50X	
203	127	1406C86-002A 100X	
204	128	1406C86-003A 50X	
205	129	1406C86-004A 100X	
206	130	1406C88-001A 20X	
207	131	1406C88-002A 20X	
208	132	1406C88-003A 20X	
209	133	1406C88-004A 20X	
210	134	1406C93-001A 50X	
211	135	1406C93-002A 50X	
212	2	CCV	
213	1	CCB	
214	3	CCV CAT	
215	136	1406C93-003A 50X	
216	137	1406C93-004A 50X	
217	138	1406D18-001A 2X	
218	139	1406D18-001A 10X	
219	140	1406D18-002A 2X	
220	141	1406D18-002A 10X	

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
221	142		1406D18-003A 100X	
222	143		1406D18-004A 100X	
223	12		BLANK	
224	144		MB-14018	
225	2	QC	CCV	
226	1	QC	CCB	
227	3	QC	CCV CAT	
228	145		LCS-14018	
229	146		1407055-001A	
230	147		1407055-002A	
231	148		1407055-002AMS	
232	149		1407055-002AMSD	
233	12		BLANK	
234	150		1407055-001A 5X	Analyzed
235	12		BLANK	
236	12		BLANK	
237	12		BLANK	
238	12		BLANK	
239	12		BLANK	
240	12		BLANK	
241	12		BLANK	
242	12		BLANK	
243	12		BLANK	
244	2	QC	CCV	QC Passed
245	1	QC	CCB	QC Passed
246	3	QC	CCV CAT	Analyzed
247	151		1406C96-001A 50X	Analyzed
248	152		1406C96-002A 10X	Analyzed
249	153		1406C96-003A 50X	Analyzed
250	154		1406C96-004A 10X	Analyzed
251	155		1406C98-001A 20X	Analyzed
252	156		1406C98-002A 2X	Analyzed
253	157		1406C98-002A 20X	Analyzed
254	158		1406C98-003A 20X	Analyzed
255	159		1406C98-004A 20X	Analyzed
256	160		1406C99-001A 2X	Analyzed
257	2	QC	CCV	QC Passed
258	1	QC	CCB	QC Passed
259	3	QC	CCV CAT	Analyzed
260	301		1406C99-001A 50X	Analyzed
261	302		1406C99-002A 2X	Analyzed
262	303		1406C99-002A 20X	Analyzed
263	304		1406C99-003A 2X	Analyzed
264	305		1406C99-003A 50X	Analyzed
265	306		1406C99-004A 50X	Analyzed
266	307		1406D00-001A 50X	Analyzed
267	308		1406D00-002A 20X	Analyzed
268	309		1406D00-003A 20X	Analyzed
269	310		1406D00-004A 50X	Analyzed
270	2	QC	CCV	QC Passed
271	1	QC	CCB	QC Passed
272	3	QC	CCV CAT	Analyzed
273	311		1406D01-001A 2X	Analyzed
274	312		1406D01-001A 20X	Analyzed
275	313		1406D01-002A 2X	Analyzed

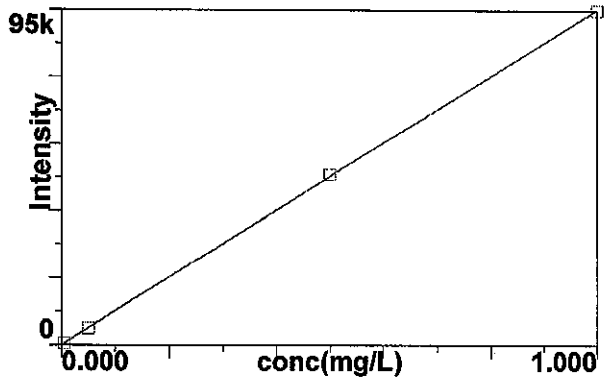
Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
276	314		1406D01-002A 20X	Analyzed
277	315		1406D01-003A 2X	Analyzed
278	316		1406D01-003A 20X	Analyzed
279	317		1406D01-004A 2X	Analyzed
280	318		1406D01-004A 20X	Analyzed
281	2		CCV	QC Passed
282	1		CCB	QC Passed
283	3		CCV CAT	Analyzed
284	7		DI RINSE	QC Passed

Method: ISIS 010814 6010SOIL
Result: 070214 B14004

Ag 328.068



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Corr Coeff: 0.999985

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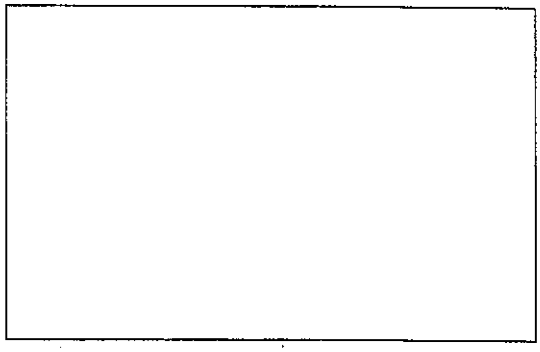
Al 396.153



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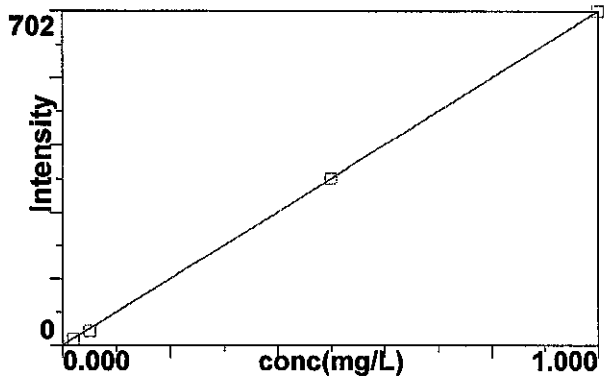
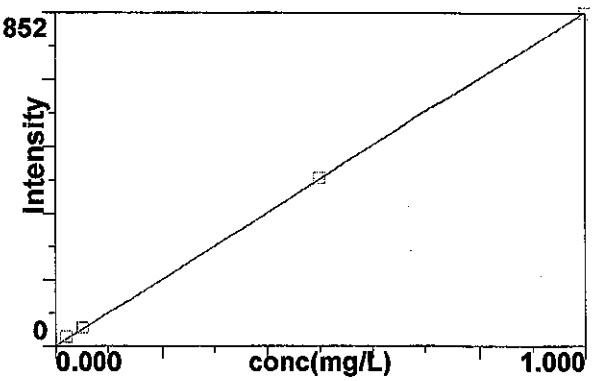
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999979

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999951

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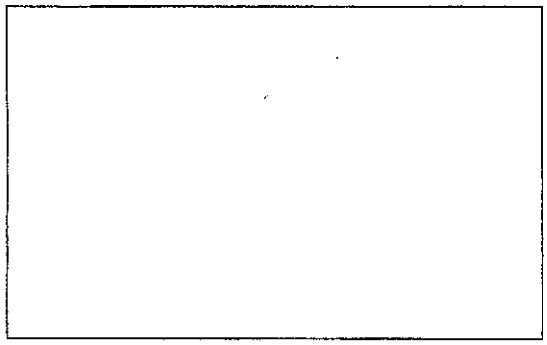
B 249.772



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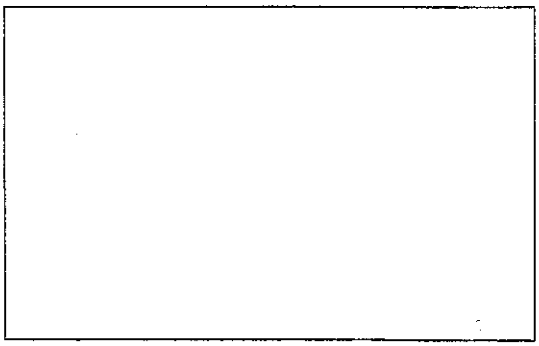
B 249.677



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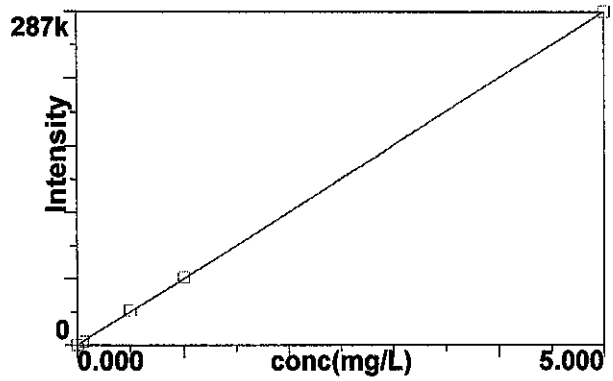
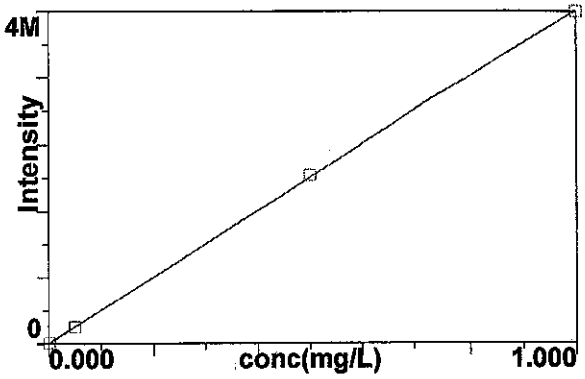
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

7

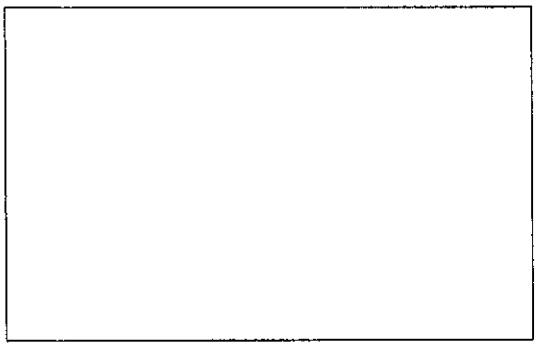
Be 313.107



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999984

8

Ca 317.933



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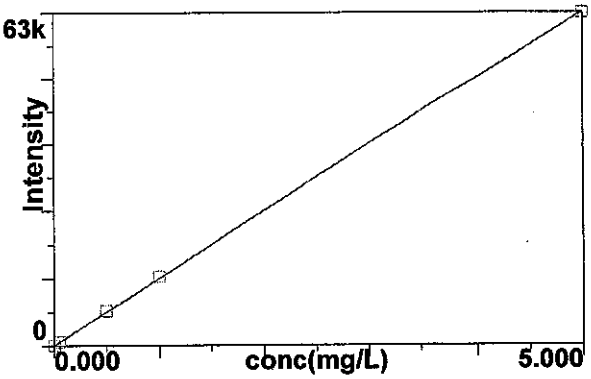
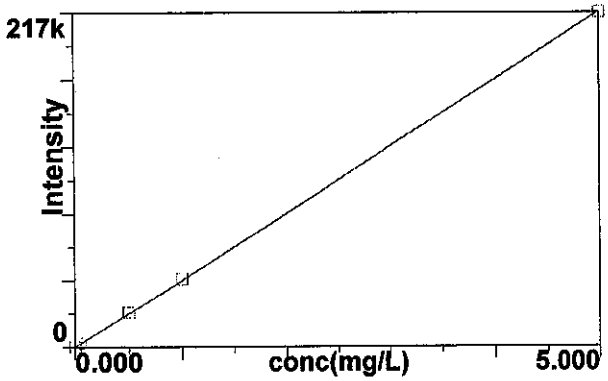
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999979

10

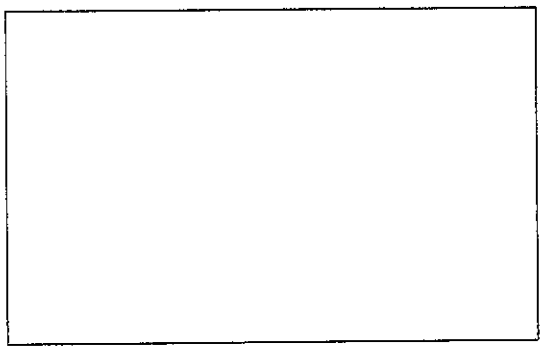
Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999982

11

Co 228.616



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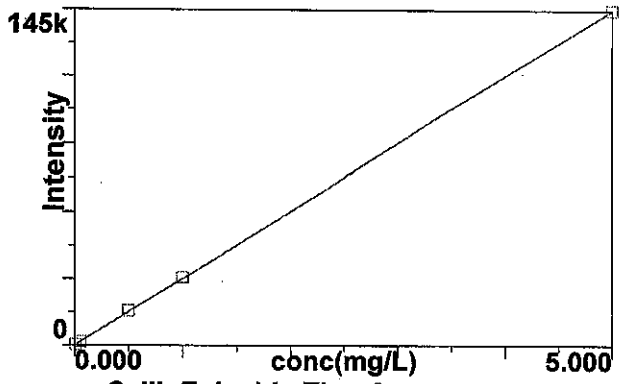
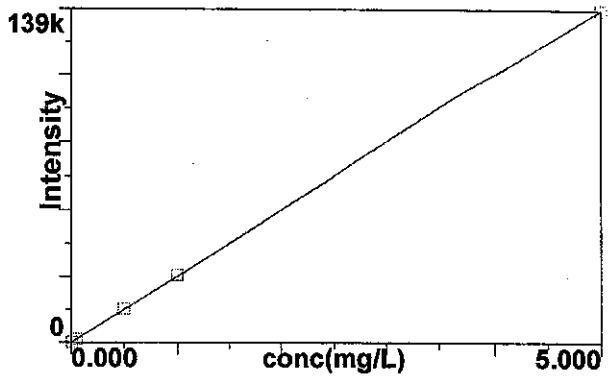
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999985

13

Cr 205.560



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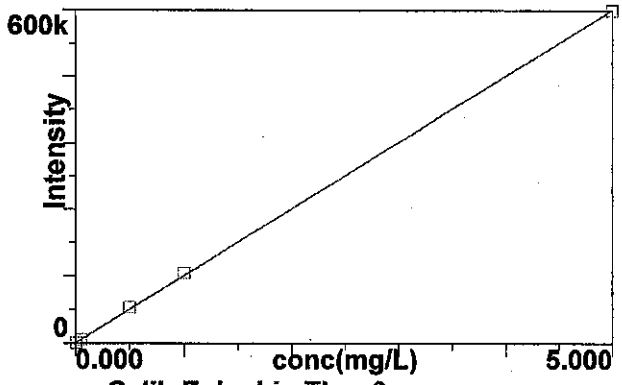
Corr Coeff: 0.999987

14

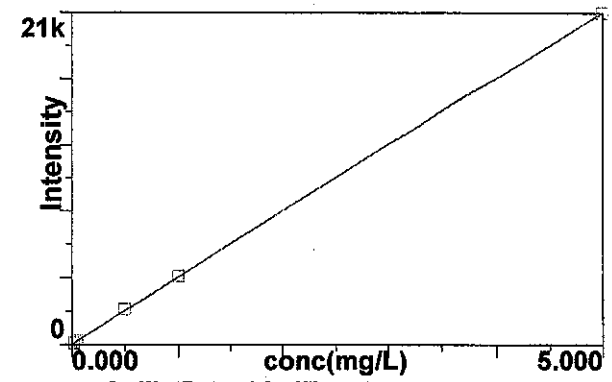
Cu 324.752



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999948

15

Fe 238.204



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999982

16

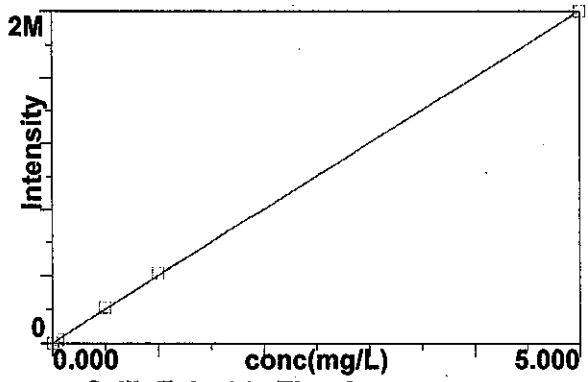
K 766.490

17

Mg 285.213

18

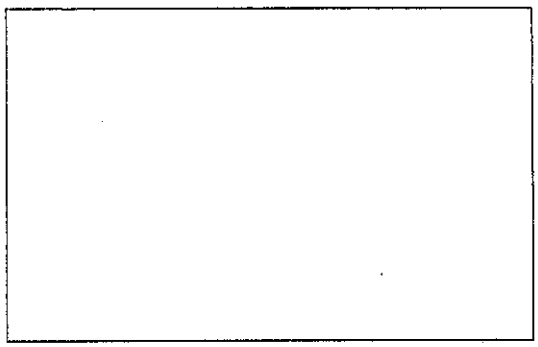
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999957

19

Mo 202.031



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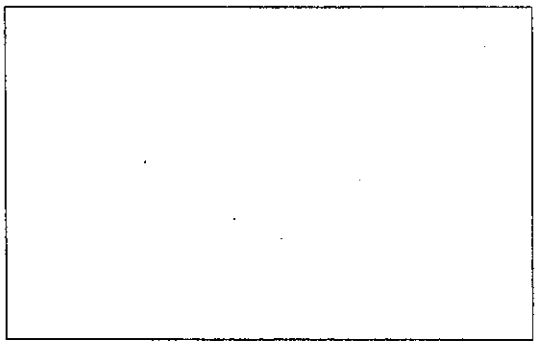
Na 589.592



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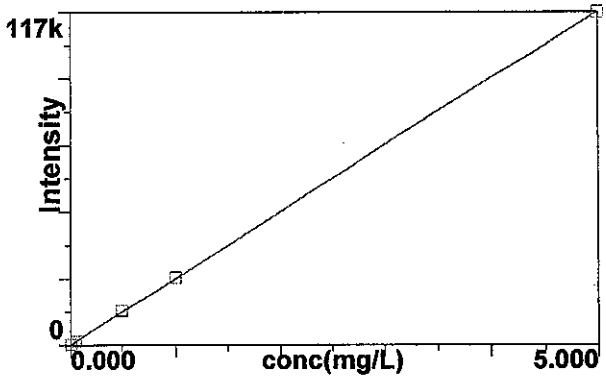
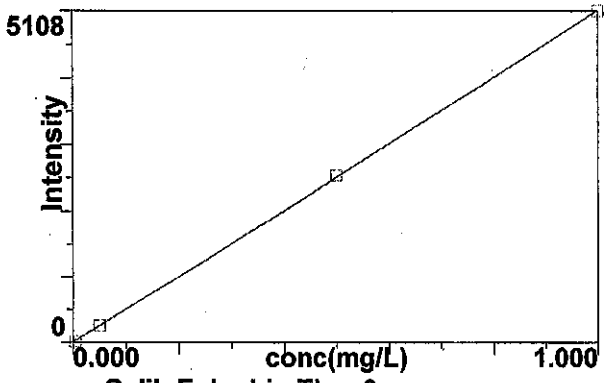
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

22

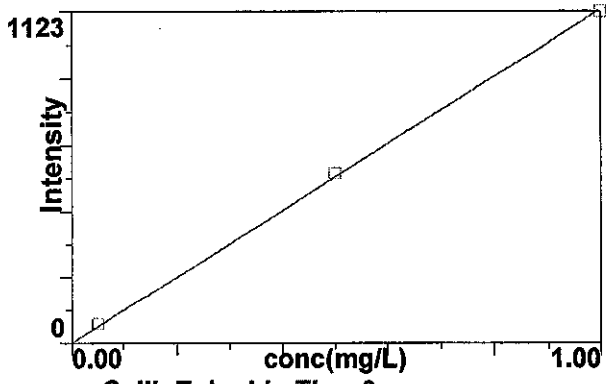
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999982

23

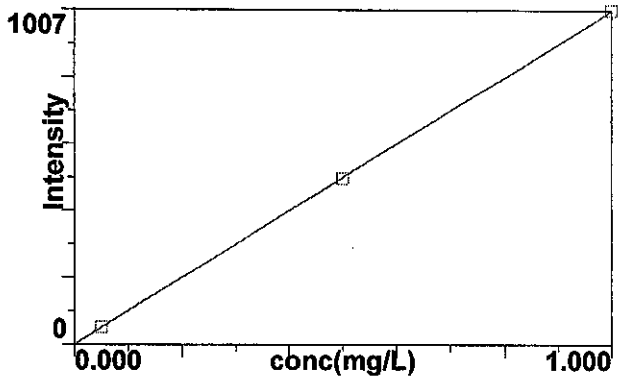
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999900

24

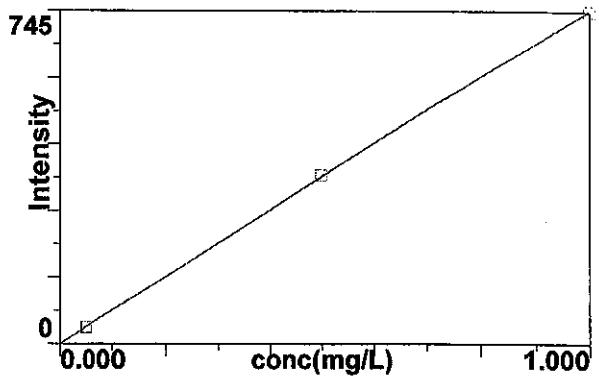
Sb 206.836



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

25

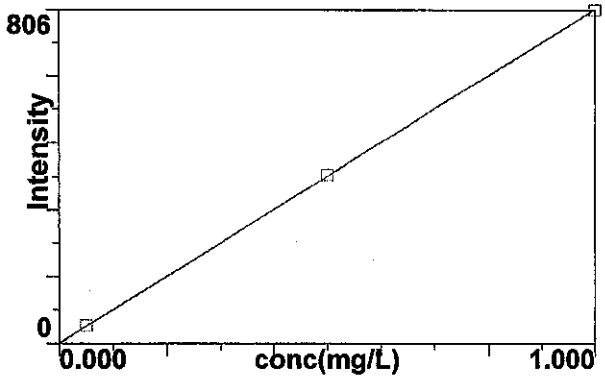
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999984

26

Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

27

Si 212.412

28

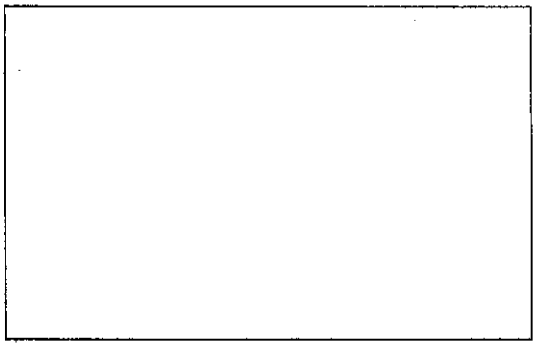
Sn 189.927

29

Ti 334.940

30

Tl 190.801



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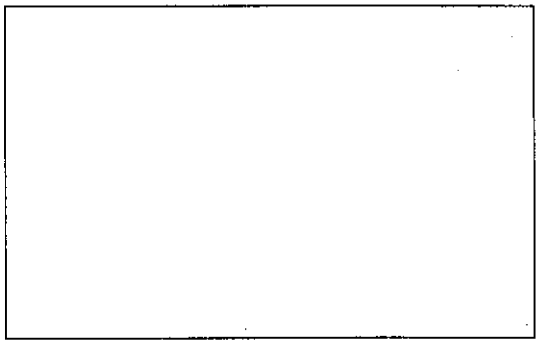
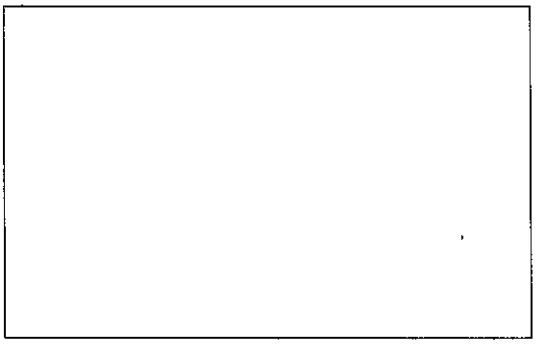
U 385.958



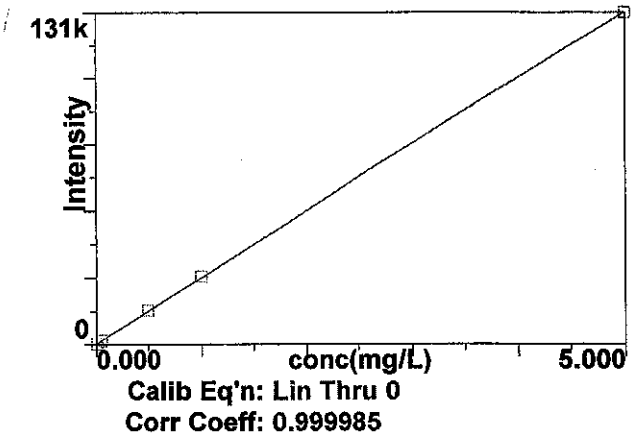
32

V 292.402



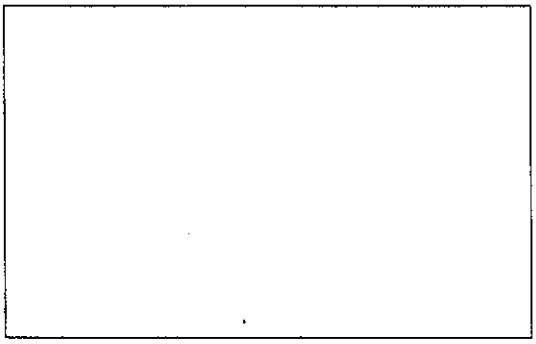
33

Zn 206.200

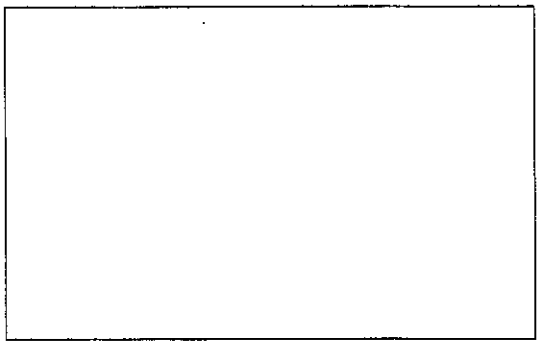


36

Sr 421.552



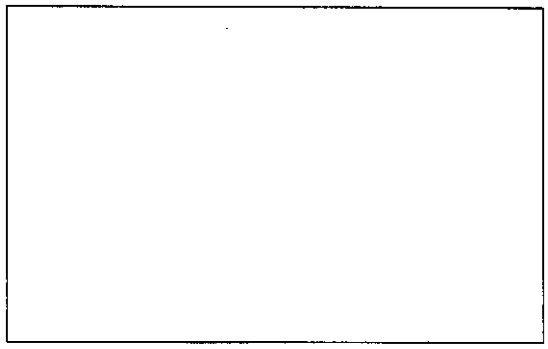
37



38

Method: ISIS 010814 6010SOIL
Result: 070214 B14004

U 424.167



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Analysis Begun

Start Time: 7/2/2014 10:44:17 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/2/2014 8:42:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 010814 6010SOIL
IEC File:
Method Description: Hall Metals Full List

Method Last Saved: 3/27/2014 11:30:19 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 1
Date Collected: 7/2/2014 10:44:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	34214.7	522.43	1.53%	100.00	%
Y 371.029	628975.8	3521.36	0.56%	100.00	%
Ag 328.068†	149.8	41.86	27.94%	[0.00]	mg/L
As 188.979†	12.4	3.85	30.96%	[0.00]	mg/L
As 193.696†	-13.9	2.82	20.32%	[0.00]	mg/L
Ba 233.527†	-9.3	12.63	135.16%	[0.00]	mg/L
Be 313.107†	7334.1	144.50	1.97%	[0.00]	mg/L
Cd 228.802†	-26.4	4.08	15.42%	[0.00]	mg/L
Cd 226.502†	57.8	8.30	14.35%	[0.00]	mg/L
Cr 267.716†	-18.8	6.96	37.05%	[0.00]	mg/L
Cr 205.560†	-26.1	32.74	125.39%	[0.00]	mg/L
Cu 324.752†	-3829.6	0.29	0.01%	[0.00]	mg/L
Fe 238.204†	52.1	5.85	11.25%	[0.00]	mg/L
Mn 257.610†	72.5	34.11	47.07%	[0.00]	mg/L
Ni 231.604†	-104.9	5.77	5.50%	[0.00]	mg/L
Pb 220.353†	-35.7	5.75	16.12%	[0.00]	mg/L
Pb 217.000†	5.7	8.95	156.90%	[0.00]	mg/L
Sb 206.836†	-7.0	8.40	119.60%	[0.00]	mg/L
Se 203.985†	0.5	4.35	822.73%	[0.00]	mg/L
Se 196.026†	-22.3	2.79	12.54%	[0.00]	mg/L
Zn 206.200†	-0.3	1.11	320.22%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/2/2014 10:46:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33208.0	210.42	0.63%	97.058	%
Y 371.029	602874.2	2685.29	0.45%	95.850	%
Ag 328.068†	449.2	15.26	3.40%	[0.005]	mg/L
As 188.979†	12.7	3.79	29.90%	[0.02]	mg/L
As 193.696†	23.9	6.68	27.95%	[0.02]	mg/L
Ba 233.527†	108.9	10.70	9.83%	[0.002]	mg/L
Be 313.107†	7847.6	45.92	0.59%	[0.002]	mg/L
Cd 228.802†	22.9	6.11	26.67%	[0.002]	mg/L
Cd 226.502†	87.4	6.44	7.36%	[0.002]	mg/L
Cr 267.716†	168.2	7.86	4.68%	[0.006]	mg/L
Cr 205.560†	144.4	20.44	14.15%	[0.006]	mg/L
Cu 324.752†	639.3	27.65	4.33%	[0.006]	mg/L
Fe 238.204†	100.2	11.62	11.59%	[0.02]	mg/L
Mn 257.610†	675.9	14.62	2.16%	[0.002]	mg/L
Ni 231.604†	130.2	4.27	3.28%	[0.005]	mg/L
Pb 220.353†	10.7	5.24	49.13%	[0.005]	mg/L
Zn 206.200†	168.4	5.97	3.55%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 7/2/2014 10:47:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33380.2	168.96	0.51%	97.561	%
Y 371.029	620863.2	4164.42	0.67%	98.710	%
Ag 328.068†	4653.3	38.61	0.83%	[0.05]	mg/L
As 188.979†	30.2	2.59	8.58%	[0.050]	mg/L
As 193.696†	46.8	1.92	4.11%	[0.050]	mg/L
Ba 233.527†	2934.6	12.11	0.41%	[0.05]	mg/L
Be 313.107†	184095.0	93.85	0.05%	[0.05]	mg/L
Cd 228.802†	640.2	0.80	0.12%	[0.05]	mg/L
Cd 226.502†	2199.6	17.40	0.79%	[0.05]	mg/L
Cr 267.716†	1476.2	11.87	0.80%	[0.05]	mg/L
Cr 205.560†	1393.0	20.03	1.44%	[0.05]	mg/L
Cu 324.752†	6181.9	50.27	0.81%	[0.050]	mg/L
Fe 238.204†	243.7	12.28	5.04%	[0.050]	mg/L
Mn 257.610†	15815.3	45.24	0.29%	[0.05]	mg/L
Ni 231.604†	1187.8	6.11	0.51%	[0.05]	mg/L
Pb 220.353†	259.5	11.08	4.27%	[0.05]	mg/L
Pb 217.000†	66.1	3.66	5.54%	[0.05]	mg/L
Sb 206.836†	51.9	2.33	4.48%	[0.050]	mg/L
Se 203.985†	36.5	3.55	9.74%	[0.050]	mg/L
Se 196.026†	42.3	4.86	11.49%	[0.050]	mg/L
Zn 206.200†	1362.7	3.01	0.22%	[0.05]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/2/2014 10:49:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33746.4	418.00	1.24%	98.632	%
Y 371.029	610667.1	2023.73	0.33%	97.089	%
Ag 328.068†	48291.8	367.16	0.76%	[0.50]	mg/L
As 188.979†	351.7	5.24	1.49%	[0.50]	mg/L
As 193.696†	432.1	3.39	0.78%	[0.50]	mg/L
Ba 233.527†	29791.6	212.94	0.71%	[0.50]	mg/L
Be 313.107†	1894209.6	2436.15	0.13%	[0.50]	mg/L
Cd 228.802†	6508.9	21.68	0.33%	[0.50]	mg/L
Cd 226.502†	22557.7	205.92	0.91%	[0.50]	mg/L
Cr 267.716†	15049.9	111.26	0.74%	[0.50]	mg/L
Cr 205.560†	14292.2	152.74	1.07%	[0.50]	mg/L
Cu 324.752†	63799.4	440.88	0.69%	[0.50]	mg/L
Fe 238.204†	2179.8	18.74	0.86%	[0.50]	mg/L
Mn 257.610†	162872.5	1374.97	0.84%	[0.5]	mg/L
Ni 231.604†	12117.5	102.68	0.85%	[0.50]	mg/L
Pb 220.353†	2589.2	7.42	0.29%	[0.50]	mg/L
Pb 217.000†	578.3	9.78	1.69%	[0.50]	mg/L
Sb 206.836†	499.6	1.16	0.23%	[0.50]	mg/L
Se 203.985†	377.9	5.90	1.56%	[0.50]	mg/L
Se 196.026†	407.4	1.31	0.32%	[0.50]	mg/L
Zn 206.200†	13483.1	127.82	0.95%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 7/2/2014 10:51:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33855.5	305.51	0.90%	98.950	%
Y 371.029	606863.1	4836.15	0.80%	96.484	%
Ag 328.068†	95313.7	1418.49	1.49%	[1.00]	mg/L
As 188.979†	702.2	3.07	0.44%	[1.00]	mg/L
As 193.696†	852.4	11.71	1.37%	[1.00]	mg/L
Ba 233.527†	58805.2	784.83	1.33%	[1.00]	mg/L
Be 313.107†	3735057.5	6776.07	0.18%	[1.00]	mg/L
Cd 228.802†	12925.8	186.57	1.44%	[1.00]	mg/L
Cd 226.502†	44568.4	643.26	1.44%	[1.00]	mg/L
Cr 267.716†	29664.4	459.79	1.55%	[1.00]	mg/L
Cr 205.560†	28381.7	458.68	1.62%	[1.00]	mg/L
Cu 324.752†	125183.9	1746.24	1.39%	[1.00]	mg/L
Fe 238.204†	4266.7	29.44	0.69%	[1.00]	mg/L
Mn 257.610†	320974.0	4820.19	1.50%	[1.00]	mg/L
Ni 231.604†	23920.4	358.94	1.50%	[1.00]	mg/L
Pb 220.353†	5108.4	63.20	1.24%	[1.00]	mg/L
Pb 217.000†	1122.9	8.61	0.77%	[1.00]	mg/L
Sb 206.836†	1006.6	17.72	1.76%	[1.00]	mg/L
Se 203.985†	745.4	14.64	1.96%	[1.00]	mg/L
Se 196.026†	806.0	6.78	0.84%	[1.00]	mg/L
Zn 206.200†	26697.9	398.75	1.49%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 7/2/2014 10:53:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33731.1	277.22	0.82%	98.587	%
Y 371.029	614371.5	5454.01	0.89%	97.678	%
Ba 233.527†	287100.0	451.89	0.16%	[5.00]	mg/L
Cd 228.802†	62828.0	61.51	0.10%	[5.00]	mg/L
Cd 226.502†	217329.0	317.03	0.15%	[5.00]	mg/L
Cr 267.716†	145110.6	67.85	0.05%	[5.00]	mg/L
Cr 205.560†	138814.4	168.94	0.12%	[5.00]	mg/L
Cu 324.752†	599857.9	461.27	0.08%	[5.00]	mg/L
Fe 238.204†	20896.6	9.00	0.04%	[5.00]	mg/L
Mn 257.610†	1543354.9	14479.49	0.94%	[5.00]	mg/L
Ni 231.604†	117223.4	78.55	0.07%	[5.00]	mg/L
Zn 206.200†	130500.2	199.01	0.15%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	95560	0.00000	0.999985	
As 188.979	4	Lin Thru 0	0.0	702.2	0.00000	0.999979	
As 193.696	4	Lin Thru 0	0.0	855.1	0.00000	0.999951	
Ba 233.527	5	Lin Thru 0	0.0	57490	0.00000	0.999983	
Be 313.107	4	Lin Thru 0	0.0	3746000	0.00000	0.999984	
Cd 228.802	5	Lin Thru 0	0.0	12580	0.00000	0.999979	
Cd 226.502	5	Lin Thru 0	0.0	43520	0.00000	0.999982	
Cr 267.716	5	Lin Thru 0	0.0	29060	0.00000	0.999985	
Cr 205.560	5	Lin Thru 0	0.0	27790	0.00000	0.999987	
Cu 324.752	5	Lin Thru 0	0.0	120200	0.00000	0.999948	
Fe 238.204	5	Lin Thru 0	0.0	4184	0.00000	0.999982	
Mn 257.610	5	Lin Thru 0	0.0	309300	0.00000	0.999957	
Ni 231.604	5	Lin Thru 0	0.0	23470	0.00000	0.999987	
Pb 220.353	4	Lin Thru 0	0.0	5122	0.00000	0.999982	
Pb 217.000	3	Lin Thru 0	0.0	1130	0.00000	0.999900	
Sb 206.836	3	Lin Thru 0	0.0	1005	0.00000	0.999995	
Se 203.985	3	Lin Thru 0	0.0	747.4	0.00000	0.999984	
Se 196.026	3	Lin Thru 0	0.0	807.8	0.00000	0.999989	
Zn 206.200	5	Lin Thru 0	0.0	26130	0.00000	0.999985	

User canceled analysis.

Analysis Begun

Start Time: 7/2/2014 10:54:17 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/2/2014 8:42:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV

Autosampler Location: 401
Date Collected: 7/2/2014 10:54:17 AM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33592.3	98.181	%	0.8957				0.91%
Y 371.029	619368.6	98.473	%	0.9406				0.96%
Ag 328.068†	47582.1	0.49792	mg/L	0.004502	0.49792	mg/L	0.004502	0.90%
QC value within limits for Ag 328.068 Recovery = 99.58%								
As 188.979†	352.1	0.50140	mg/L	0.005675	0.50140	mg/L	0.005675	1.13%
QC value within limits for As 188.979 Recovery = 100.28%								
As 193.696†	433.7	0.50721	mg/L	0.005375	0.50721	mg/L	0.005375	1.06%
Ba 233.527†	29205.5	0.50798	mg/L	0.003948	0.50798	mg/L	0.003948	0.78%
QC value within limits for Ba 233.527 Recovery = 101.60%								
Be 313.107†	1892894.9	0.50536	mg/L	0.000217	0.50536	mg/L	0.000217	0.04%
QC value within limits for Be 313.107 Recovery = 101.07%								
Cd 228.802†	6363.9	0.50572	mg/L	0.003165	0.50572	mg/L	0.003165	0.63%
QC value within limits for Cd 228.802 Recovery = 101.14%								
Cd 226.502†	22026.9	0.50609	mg/L	0.003698	0.50609	mg/L	0.003698	0.73%
Cr 267.716†	14826.2	0.51025	mg/L	0.004080	0.51025	mg/L	0.004080	0.80%
Cr 205.560†	14158.6	0.50941	mg/L	0.001948	0.50941	mg/L	0.001948	0.38%
QC value within limits for Cr 205.560 Recovery = 101.88%								
Cu 324.752†	62423.0	0.51914	mg/L	0.004423	0.51914	mg/L	0.004423	0.85%
QC value within limits for Cu 324.752 Recovery = 103.83%								
Fe 238.204†	2134.9	0.51020	mg/L	0.006672	0.51020	mg/L	0.006672	1.31%
QC value within limits for Fe 238.204 Recovery = 102.04%								
Mn 257.610†	159405.2	0.51537	mg/L	0.004585	0.51537	mg/L	0.004585	0.89%
QC value within limits for Mn 257.610 Recovery = 103.07%								
Ni 231.604†	12144.8	0.51745	mg/L	0.004269	0.51745	mg/L	0.004269	0.82%
QC value within limits for Ni 231.604 Recovery = 103.49%								
Pb 220.353†	2574.9	0.50268	mg/L	0.002586	0.50268	mg/L	0.002586	0.51%
QC value within limits for Pb 220.353 Recovery = 100.54%								
Pb 217.000†	564.7	0.49970	mg/L	0.004027	0.49970	mg/L	0.004027	0.81%
Sb 206.836†	493.8	0.49129	mg/L	0.011593	0.49129	mg/L	0.011593	2.36%
QC value within limits for Sb 206.836 Recovery = 98.26%								
Se 203.985†	377.2	0.50466	mg/L	0.018774	0.50466	mg/L	0.018774	3.72%
Se 196.026†	405.5	0.50192	mg/L	0.009332	0.50192	mg/L	0.009332	1.86%
QC value within limits for Se 196.026 Recovery = 100.38%								
Zn 206.200†	13292.8	0.50870	mg/L	0.002564	0.50870	mg/L	0.002564	0.50%
QC value within limits for Zn 206.200 Recovery = 101.74%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/2/2014 10:56:11 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/2/2014 8:42:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/2/2014 10:56:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	34558.4	101.00	%	0.541				0.54%
Y 371.029	638247.8	101.47	%	0.453				0.45%
Ag 328.068†	-14.1	-0.00015	mg/L	0.000379	-0.00015	mg/L	0.000379	256.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	5.3	0.00754	mg/L	0.006907	0.00754	mg/L	0.006907	91.64%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	5.7	0.00668	mg/L	0.004120	0.00668	mg/L	0.004120	61.67%
Ba 233.527†	3.0	0.00005	mg/L	0.000660	0.00005	mg/L	0.000660	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	9.6	0.00000	mg/L	0.000008	0.00000	mg/L	0.000008	321.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	0.5	0.00004	mg/L	0.000425	0.00004	mg/L	0.000425	990.92%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	7.1	0.00016	mg/L	0.000116	0.00016	mg/L	0.000116	71.09%
Cr 267.716†	-1.3	-0.00005	mg/L	0.000323	-0.00005	mg/L	0.000323	703.32%
Cr 205.560†	-8.7	-0.00031	mg/L	0.000418	-0.00031	mg/L	0.000418	134.12%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	14.6	0.00012	mg/L	0.000093	0.00012	mg/L	0.000093	76.23%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	1.2	0.00028	mg/L	0.002378	0.00028	mg/L	0.002378	851.84%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Mn 257.610†	-30.5	-0.00010	mg/L	0.000103	-0.00010	mg/L	0.000103	104.58%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-2.8	-0.00012	mg/L	0.000350	-0.00012	mg/L	0.000350	294.97%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.0	-0.00118	mg/L	0.000353	-0.00118	mg/L	0.000353	29.97%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	9.0	0.00796	mg/L	0.009591	0.00796	mg/L	0.009591	120.44%
Sb 206.836†	8.9	0.00888	mg/L	0.006053	0.00888	mg/L	0.006053	68.20%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	-1.5	-0.00206	mg/L	0.008224	-0.00206	mg/L	0.008224	399.83%
Se 196.026†	-4.4	-0.00541	mg/L	0.010270	-0.00541	mg/L	0.010270	189.75%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	2.4	0.00009	mg/L	0.000123	0.00009	mg/L	0.000123	132.31%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/2/2014 10:57:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	34069.2	99.575	%	0.4109				0.41%
Y 371.029	613092.0	97.475	%	1.1276				1.16%
Ag 328.068†	440.8	0.00461	mg/L	0.000326	0.00461	mg/L	0.000326	7.07%
QC value within limits for Ag 328.068 Recovery = 92.26%								
As 188.979†	12.0	0.01712	mg/L	0.001002	0.01712	mg/L	0.001002	5.86%

	QC value within limits for As 188.979 Recovery = 85.58%						
As	193.696†	20.8	0.02438 mg/L	0.006277	0.02438 mg/L	0.006277	25.75%
Ba	233.527†	142.8	0.00248 mg/L	0.000496	0.00248 mg/L	0.000496	19.98%
	QC value within limits for Ba 233.527 Recovery = 124.15%						
Be	313.107†	7771.5	0.00207 mg/L	0.000034	0.00207 mg/L	0.000034	1.65%
	QC value within limits for Be 313.107 Recovery = 103.74%						
Cd	228.802†	21.1	0.00168 mg/L	0.000412	0.00168 mg/L	0.000412	24.53%
	QC value within limits for Cd 228.802 Recovery = 83.93%						
Cd	226.502†	88.0	0.00202 mg/L	0.000172	0.00202 mg/L	0.000172	8.49%
Cr	267.716†	179.4	0.00617 mg/L	0.000324	0.00617 mg/L	0.000324	5.25%
Cr	205.560†	149.9	0.00539 mg/L	0.000218	0.00539 mg/L	0.000218	4.04%
	QC value within limits for Cr 205.560 Recovery = 89.87%						
Cu	324.752†	619.4	0.00515 mg/L	0.000544	0.00515 mg/L	0.000544	10.56%
	QC value within limits for Cu 324.752 Recovery = 85.85%						
Fe	238.204†	105.6	0.02524 mg/L	0.004208	0.02524 mg/L	0.004208	16.67%
	QC value within limits for Fe 238.204 Recovery = 126.21%						
Mn	257.610†	682.2	0.00221 mg/L	0.000043	0.00221 mg/L	0.000043	1.94%
	QC value within limits for Mn 257.610 Recovery = 110.28%						
Ni	231.604†	123.0	0.00524 mg/L	0.000288	0.00524 mg/L	0.000288	5.50%
	QC value within limits for Ni 231.604 Recovery = 104.82%						
Pb	220.353†	13.6	0.00266 mg/L	0.000359	0.00266 mg/L	0.000359	13.49%
	QC value within limits for Pb 220.353 Recovery = 53.24%						
Pb	217.000†	9.0	0.00798 mg/L	0.003619	0.00798 mg/L	0.003619	45.38%
Sb	206.836†	54.4	0.05415 mg/L	0.005055	0.05415 mg/L	0.005055	9.34%
	QC value within limits for Sb 206.836 Recovery = 108.30%						
Se	203.985†	31.2	0.04174 mg/L	0.004088	0.04174 mg/L	0.004088	9.79%
Se	196.026†	39.6	0.04900 mg/L	0.007456	0.04900 mg/L	0.007456	15.22%
	QC value within limits for Se 196.026 Recovery = 98.01%						
Zn	206.200†	175.6	0.00672 mg/L	0.000320	0.00672 mg/L	0.000320	4.76%
	QC value within limits for Zn 206.200 Recovery = 134.38%						

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 7/2/2014 10:59:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

BL 7/3/14

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029 R	64203.7	187.65 %	8.901			4.74%
Internal Standard Check greater than the upper limit for Y 371.029 R. Recovery = 187.6%						
Y 371.029	1217654.9	193.59 %	7.739			4.00%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 193.6%						
Ag 328.068†	6978.8	0.07303 mg/L	0.029000	0.07303 mg/L	0.029000	39.71%
QC value less than the lower limit for Ag 328.068 Recovery = 14.61%						
As 188.979†	31.5	0.04487 mg/L	0.004070	0.04487 mg/L	0.004070	9.07%
QC value less than the lower limit for As 188.979 Recovery = 8.97%						
As 193.696†	45.6	0.05332 mg/L	0.004939	0.05332 mg/L	0.004939	9.26%
Ba 233.527†	3209.3	0.05582 mg/L	0.006915	0.05582 mg/L	0.006915	12.39%
QC value less than the lower limit for Ba 233.527 Recovery = 11.16%						
Be 313.107†	276457.2	0.07381 mg/L	0.029873	0.07381 mg/L	0.029873	40.47%
QC value less than the lower limit for Be 313.107 Recovery = 14.76%						
Cd 228.802†	728.7	0.05791 mg/L	0.007087	0.05791 mg/L	0.007087	12.24%
QC value less than the lower limit for Cd 228.802 Recovery = 11.58%						
Cd 226.502†	2310.8	0.05309 mg/L	0.006932	0.05309 mg/L	0.006932	13.06%
Cr 267.716†	1619.9	0.05575 mg/L	0.006851	0.05575 mg/L	0.006851	12.29%
Cr 205.560†	1529.0	0.05501 mg/L	0.006745	0.05501 mg/L	0.006745	12.26%
QC value less than the lower limit for Cr 205.560 Recovery = 11.00%						
Cu 324.752†	10662.4	0.08867 mg/L	0.027667	0.08867 mg/L	0.027667	31.20%
QC value less than the lower limit for Cu 324.752 Recovery = 17.73%						

Fe 238.204†	7872.9	1.8815 mg/L	0.62258	1.8815 mg/L	0.62258	33.09%
Mn 257.610†	22984.4	0.07431 mg/L	0.029222	0.07431 mg/L	0.029222	39.32%
QC value less than the lower limit for Mn 257.610 Recovery = 14.86%						
Ni 231.604†	1272.8	0.05423 mg/L	0.006340	0.05423 mg/L	0.006340	11.69%
QC value less than the lower limit for Ni 231.604 Recovery = 10.85%						
Pb 220.353†	287.5	0.05612 mg/L	0.005861	0.05612 mg/L	0.005861	10.44%
QC value less than the lower limit for Pb 220.353 Recovery = 11.22%						
Pb 217.000†	68.0	0.06022 mg/L	0.008787	0.06022 mg/L	0.008787	14.59%
Sb 206.836†	41.9	0.04168 mg/L	0.003854	0.04168 mg/L	0.003854	9.25%
QC value less than the lower limit for Sb 206.836 Recovery = 8.34%						
Se 203.985†	30.4	0.04063 mg/L	0.010950	0.04063 mg/L	0.010950	26.95%
Se 196.026†	47.2	0.05839 mg/L	0.006781	0.05839 mg/L	0.006781	11.61%
QC value less than the lower limit for Se 196.026 Recovery = 11.68%						
Zn 206.200†	1392.9	0.05331 mg/L	0.006736	0.05331 mg/L	0.006736	12.64%
QC value less than the lower limit for Zn 206.200 Recovery = 10.66%						

Internal Standard Check failed. Continue with analysis.
QC Failed. Continue with analysis.
User canceled analysis.

EC 7/3/14

Analysis Begun

Start Time: 7/2/2014 11:01:44 AM **Plasma On Time: 7/2/2014 8:42:54 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 14 **Autosampler Location: 403**
Sample ID: ICS ELEM **Date Collected: 7/2/2014 11:01:45 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	34851.6	101.86	%	0.997				0.98%
Y 371.029	643129.8	102.25	%	0.351				0.34%
Ag 328.068†	44776.0	0.46855	mg/L	0.003427	0.46855	mg/L	0.003427	0.73%
QC value within limits for Ag 328.068 Recovery = 93.71%								
As 188.979†	341.6	0.48649	mg/L	0.008050	0.48649	mg/L	0.008050	1.65%
QC value within limits for As 188.979 Recovery = 97.30%								
As 193.696†	355.0	0.41516	mg/L	0.008723	0.41516	mg/L	0.008723	2.10%
Ba 233.527†	26631.0	0.46320	mg/L	0.002830	0.46320	mg/L	0.002830	0.61%
QC value within limits for Ba 233.527 Recovery = 92.64%								
Be 313.107†	1800442.4	0.48068	mg/L	0.001026	0.48068	mg/L	0.001026	0.21%
QC value within limits for Be 313.107 Recovery = 96.14%								
Cd 228.802†	6103.9	0.48507	mg/L	0.003637	0.48507	mg/L	0.003637	0.75%
QC value within limits for Cd 228.802 Recovery = 97.01%								
Cd 226.502†	20723.0	0.47613	mg/L	0.003108	0.47613	mg/L	0.003108	0.65%
Cr 267.716†	13416.9	0.46175	mg/L	0.003284	0.46175	mg/L	0.003284	0.71%
Cr 205.560†	12706.9	0.45717	mg/L	0.003056	0.45717	mg/L	0.003056	0.67%
QC value within limits for Cr 205.560 Recovery = 91.43%								
Cu 324.752†	54755.9	0.45538	mg/L	0.003423	0.45538	mg/L	0.003423	0.75%
QC value within limits for Cu 324.752 Recovery = 91.08%								
Fe 238.204†	79146.9	18.915	mg/L	0.0582	18.915	mg/L	0.0582	0.31%
Mn 257.610†	141323.2	0.45691	mg/L	0.003342	0.45691	mg/L	0.003342	0.73%
QC value within limits for Mn 257.610 Recovery = 91.38%								

Ni 231.604†	10316.4	0.43955 mg/L	0.001826	0.43955 mg/L	0.001826	0.42%
QC value within limits for Ni 231.604 Recovery = 87.91%						
Pb 220.353†	2254.5	0.44013 mg/L	0.002008	0.44013 mg/L	0.002008	0.46%
QC value within limits for Pb 220.353 Recovery = 88.03%						
Pb 217.000†	534.8	0.47325 mg/L	0.006435	0.47325 mg/L	0.006435	1.36%
Sb 206.836†	425.5	0.42329 mg/L	0.014321	0.42329 mg/L	0.014321	3.38%
QC value within limits for Sb 206.836 Recovery = 84.66%						
Se 203.985†	354.9	0.47475 mg/L	0.016590	0.47475 mg/L	0.016590	3.49%
Se 196.026†	386.2	0.47813 mg/L	0.010906	0.47813 mg/L	0.010906	2.28%
QC value within limits for Se 196.026 Recovery = 95.63%						
Zn 206.200†	12406.0	0.47476 mg/L	0.002625	0.47476 mg/L	0.002625	0.55%
QC value within limits for Zn 206.200 Recovery = 94.95%						

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 7/2/2014 11:03:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	34254.4	100.12	%	0.516				0.51%
Y 371.029	627230.4	99.723	%	0.2199				0.22%
Ag 328.068†	21.3	0.00022	mg/L	0.000315	0.00022	mg/L	0.000315	141.14%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	6.2	0.00890	mg/L	0.006284	0.00890	mg/L	0.006284	70.62%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-49.6	-0.05798	mg/L	0.006522	-0.05798	mg/L	0.006522	11.25%
Ba 233.527†	35.7	0.00062	mg/L	0.000079	0.00062	mg/L	0.000079	12.79%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	718.4	0.00019	mg/L	0.000008	0.00019	mg/L	0.000008	4.20%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	-8.5	-0.00067	mg/L	0.000330	-0.00067	mg/L	0.000330	49.03%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-23.2	-0.00053	mg/L	0.000137	-0.00053	mg/L	0.000137	25.64%
Cr 267.716†	18.7	0.00064	mg/L	0.000145	0.00064	mg/L	0.000145	22.57%
Cr 205.560†	-106.9	-0.00385	mg/L	0.000603	-0.00385	mg/L	0.000603	15.68%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-583.1	-0.00485	mg/L	0.000094	-0.00485	mg/L	0.000094	1.93%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	78560.3	18.774	mg/L	0.0561	18.774	mg/L	0.0561	0.30%
Mn 257.610†	-82.3	-0.00027	mg/L	0.000207	-0.00027	mg/L	0.000207	77.96%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-24.9	-0.00106	mg/L	0.000245	-0.00106	mg/L	0.000245	23.08%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-73.1	-0.01427	mg/L	0.000819	-0.01427	mg/L	0.000819	5.74%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	22.2	0.01962	mg/L	0.001887	0.01962	mg/L	0.001887	9.62%
Sb 206.836†	-3.1	-0.00306	mg/L	0.005359	-0.00306	mg/L	0.005359	175.37%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	-28.0	-0.03752	mg/L	0.009424	-0.03752	mg/L	0.009424	25.12%
Se 196.026†	-19.9	-0.02464	mg/L	0.011998	-0.02464	mg/L	0.011998	48.70%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	38.1	0.00146	mg/L	0.000293	0.00146	mg/L	0.000293	20.13%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-13994

Autosampler Location: 101
Date Collected: 7/2/2014 11:04:36 AM

Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-13994

Analyte	Back Pressure	Flow
All	229.0 kPa	0.55 L/min

Mean Data: MB-13994

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32396.8	94.687	%	0.2794				0.30%
Y 371.029	572429.1	91.010	%	0.1855				0.20%
Ag 328.068†	33.3	0.00035	mg/L	0.000251	0.00035	mg/L	0.000251	72.06%
As 188.979†	2.9	0.00406	mg/L	0.003093	0.00406	mg/L	0.003093	76.20%
As 193.696†	6.6	0.00771	mg/L	0.002686	0.00771	mg/L	0.002686	34.82%
Ba 233.527†	45.8	0.00080	mg/L	0.000334	0.00080	mg/L	0.000334	41.91%
Be 313.107†	359.5	0.00010	mg/L	0.000019	0.00010	mg/L	0.000019	19.86%
Cd 228.802†	-0.5	-0.00004	mg/L	0.000292	-0.00004	mg/L	0.000292	747.12%
Cd 226.502†	7.3	0.00017	mg/L	0.000167	0.00017	mg/L	0.000167	99.88%
Cr 267.716†	76.2	0.00262	mg/L	0.000190	0.00262	mg/L	0.000190	7.23%
Cr 205.560†	29.6	0.00106	mg/L	0.000543	0.00106	mg/L	0.000543	50.96%
Cu 324.752†	318.2	0.00265	mg/L	0.000409	0.00265	mg/L	0.000409	15.47%
Fe 238.204†	2027.0	0.48441	mg/L	0.001301	0.48441	mg/L	0.001301	0.27%
Mn 257.610†	2994.0	0.00968	mg/L	0.000084	0.00968	mg/L	0.000084	0.87%
Ni 231.604†	28.9	0.00123	mg/L	0.000435	0.00123	mg/L	0.000435	35.28%
Pb 220.353†	-2.0	-0.00039	mg/L	0.001152	-0.00039	mg/L	0.001152	297.79%
Pb 217.000†	3.5	0.00310	mg/L	0.005748	0.00310	mg/L	0.005748	185.40%
Sb 206.836†	14.3	0.01426	mg/L	0.005903	0.01426	mg/L	0.005903	41.41%
Se 203.985†	10.4	0.01386	mg/L	0.002199	0.01386	mg/L	0.002199	15.86%
Se 196.026†	2.9	0.00359	mg/L	0.006665	0.00359	mg/L	0.006665	185.43%
Zn 206.200†	112.3	0.00430	mg/L	0.000249	0.00430	mg/L	0.000249	5.79%

NR. >PQL >PQL MR 7/8/14 OK

Sequence No.: 17
Sample ID: LCS-13994
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 102
Date Collected: 7/2/2014 11:06:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-13994

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: LCS-13994

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31238.6	91.302	%	0.4050				0.44%
Y 371.029	578073.9	91.907	%	1.1427				1.24%
Ag 328.068†	9374.2	0.09809	mg/L	0.000849	0.09809	mg/L	0.000849	0.87%
As 188.979†	340.0	0.48423	mg/L	0.007670	0.48423	mg/L	0.007670	1.58%
As 193.696†	410.2	0.47967	mg/L	0.015446	0.47967	mg/L	0.015446	3.22%
Ba 233.527†	27507.1	0.47844	mg/L	0.006516	0.47844	mg/L	0.006516	1.36%
Be 313.107†	1859693.3	0.49650	mg/L	0.000837	0.49650	mg/L	0.000837	0.17%
Cd 228.802†	6027.1	0.47896	mg/L	0.008039	0.47896	mg/L	0.008039	1.68%
Cd 226.502†	20714.1	0.47593	mg/L	0.005768	0.47593	mg/L	0.005768	1.21%
Cr 267.716†	14261.1	0.49080	mg/L	0.006379	0.49080	mg/L	0.006379	1.30%
Cr 205.560†	13506.2	0.48594	mg/L	0.009497	0.48594	mg/L	0.009497	1.95%
Cu 324.752†	60610.0	0.50406	mg/L	0.006172	0.50406	mg/L	0.006172	1.22%
Fe 238.204†	2173.1	0.51933	mg/L	0.001349	0.51933	mg/L	0.001349	0.26%
Mn 257.610†	147296.1	0.47622	mg/L	0.006170	0.47622	mg/L	0.006170	1.30%
Ni 231.604†	10922.8	0.46539	mg/L	0.008011	0.46539	mg/L	0.008011	1.72%
Pb 220.353†	2357.1	0.46015	mg/L	0.009012	0.46015	mg/L	0.009012	1.96%
Pb 217.000†	525.6	0.46515	mg/L	0.013824	0.46515	mg/L	0.013824	2.97%

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Sb 206.836†	482.7	0.48024 mg/L	0.009923	0.48024 mg/L	0.009923	2.07%
Se 203.985†	321.1	0.42964 mg/L	0.004637	0.42964 mg/L	0.004637	1.08%
Se 196.026†	363.0	0.44941 mg/L	0.012672	0.44941 mg/L	0.012672	2.82%
Zn 206.200†	12404.9	0.47471 mg/L	0.006702	0.47471 mg/L	0.006702	1.41%

Matrix Recovery Check: LCS-13994

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	0.98441	0.51933	0.001	mg/L	7.0
Ag 328.068	0.10035	0.09809	0.001	mg/L	97.7
As 188.979	0.50406	0.48423	0.008	mg/L	96.0
As 193.696	0.50771	0.47967	0.015	mg/L	94.4
Ba 233.527	0.50080	0.47844	0.007	mg/L	95.5
Be 313.107	0.50010	0.49650	0.001	mg/L	99.3
Cd 228.802	0.49996	0.47896	0.008	mg/L	95.8
Cd 226.502	0.50017	0.47593	0.006	mg/L	95.2
Cr 267.716	0.50262	0.49080	0.006	mg/L	97.6
Cr 205.560	0.50106	0.48594	0.009	mg/L	97.0
Cu 324.752	0.50265	0.50406	0.006	mg/L	100.3
Mn 257.610	0.50968	0.47622	0.006	mg/L	93.3
Ni 231.604	0.50123	0.46539	0.008	mg/L	92.8
Pb 220.353	0.49961	0.46015	0.009	mg/L	92.1
Pb 217.000	0.50310	0.46515	0.014	mg/L	92.4
Sb 206.836	0.51426	0.48024	0.010	mg/L	93.2
Se 203.985	0.51386	0.42964	0.005	mg/L	83.2
Se 196.026	0.50359	0.44941	0.013	mg/L	89.2
Zn 206.200	0.50430	0.47471	0.007	mg/L	94.1

Sequence No.: 18
Sample ID: MB-14004
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 103
Date Collected: 7/2/2014 11:07:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14004

Analyte	Back Pressure	Flow
All	231.0 kPa	0.55 L/min

RCRA only. RT 7/8/14

Mean Data: MB-14004

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33969.1	99.282	%	0.4371				0.44%
Y 371.029	622243.3	98.930	%	1.0874				1.10%
Ag 328.068†	45.3	0.00047	mg/L	0.000163	0.00047	mg/L	0.000163	34.38%
As 188.979†	1.7	0.00240	mg/L	0.005433	0.00240	mg/L	0.005433	226.34%
As 193.696†	-0.8	-0.00089	mg/L	0.004283	-0.00089	mg/L	0.004283	478.92%
Ba 233.527†	28.7	0.00050	mg/L	0.000249	0.00050	mg/L	0.000249	49.86%
Be 313.107†	205.5	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	20.54%
Cd 228.802†	-5.2	-0.00041	mg/L	0.000270	-0.00041	mg/L	0.000270	65.53%
Cd 226.502†	6.7	0.00015	mg/L	0.000055	0.00015	mg/L	0.000055	35.52%
Cr 267.716†	8.3	0.00029	mg/L	0.000170	0.00029	mg/L	0.000170	59.13%
Cr 205.560†	-18.4	-0.00066	mg/L	0.000477	-0.00066	mg/L	0.000477	72.27%
Cu 324.752†	-33.7	-0.00028	mg/L	0.000709	-0.00028	mg/L	0.000709	252.87%
Fe 238.204†	42.2	0.01009	mg/L	0.003680	0.01009	mg/L	0.003680	36.48%
Mn 257.610†	112.9	0.00036	mg/L	0.000020	0.00036	mg/L	0.000020	5.41%
Ni 231.604†	6.5	0.00028	mg/L	0.000183	0.00028	mg/L	0.000183	65.52%
Pb 220.353†	-4.5	-0.00088	mg/L	0.001730	-0.00088	mg/L	0.001730	195.49%
Pb 217.000†	6.3	0.00557	mg/L	0.009077	0.00557	mg/L	0.009077	162.85%
Sb 206.836†	-2.8	-0.00280	mg/L	0.006845	-0.00280	mg/L	0.006845	244.84%
Se 203.985†	-10.4	-0.01393	mg/L	0.013833	-0.01393	mg/L	0.013833	99.28%
Se 196.026†	-7.5	-0.00927	mg/L	0.012818	-0.00927	mg/L	0.012818	138.29%
Zn 206.200†	24.4	0.00094	mg/L	0.000252	0.00094	mg/L	0.000252	26.93%

Sequence No.: 19 **Autosampler Location: 104**

As 193.696	0.50313	0.48495	0.004	mg/L	96.4
Ba 233.527	0.50031	0.48608	0.005	mg/L	97.2
Be 313.107	0.49996	0.50488	0.001	mg/L	101.0
Cd 228.802	0.50002	0.48372	0.003	mg/L	96.7
Cd 226.502	0.49987	0.48378	0.004	mg/L	96.8
Cr 267.716	0.50034	0.49931	0.004	mg/L	99.8
Cr 205.560	0.49909	0.48637	0.003	mg/L	97.5
Cu 324.752	0.50124	0.51676	0.005	mg/L	103.1
Mn 257.610	0.50080	0.48670	0.003	mg/L	97.2
Ni 231.604	0.50140	0.47116	0.006	mg/L	94.0
Pb 220.353	0.49983	0.45869	0.006	mg/L	91.8
Pb 217.000	0.50782	0.45871	0.011	mg/L	90.2
Sb 206.836	0.49733	0.47077	0.007	mg/L	94.7
Se 203.985	0.50204	0.41907	0.004	mg/L	83.4
Se 196.026	0.51215	0.45449	0.008	mg/L	88.5
Zn 206.200	0.50362	0.48185	0.002	mg/L	95.6

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/2/2014 11:21:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	242.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33629.3	98.289	%	0.1273				0.13%
Y 371.029	625226.5	99.404	%	0.6148				0.62%
Ag 328.068†	47454.1	0.49658	mg/L	0.004796	0.49658	mg/L	0.004796	0.97%
QC value within limits for Ag 328.068 Recovery = 99.32%								
As 188.979†	351.5	0.50056	mg/L	0.002007	0.50056	mg/L	0.002007	0.40%
QC value within limits for As 188.979 Recovery = 100.11%								
As 193.696†	425.0	0.49700	mg/L	0.005548	0.49700	mg/L	0.005548	1.12%
Ba 233.527†	29150.2	0.50702	mg/L	0.004027	0.50702	mg/L	0.004027	0.79%
QC value within limits for Ba 233.527 Recovery = 101.40%								
Be 313.107†	1882818.4	0.50267	mg/L	0.000671	0.50267	mg/L	0.000671	0.13%
QC value within limits for Be 313.107 Recovery = 100.53%								
Cd 228.802†	6409.5	0.50935	mg/L	0.002181	0.50935	mg/L	0.002181	0.43%
QC value within limits for Cd 228.802 Recovery = 101.87%								
Cd 226.502†	22136.5	0.50861	mg/L	0.006365	0.50861	mg/L	0.006365	1.25%
Cr 267.716†	14753.3	0.50774	mg/L	0.006141	0.50774	mg/L	0.006141	1.21%
Cr 205.560†	14052.0	0.50557	mg/L	0.006159	0.50557	mg/L	0.006159	1.22%
QC value within limits for Cr 205.560 Recovery = 101.11%								
Cu 324.752†	62378.2	0.51877	mg/L	0.005411	0.51877	mg/L	0.005411	1.04%
QC value within limits for Cu 324.752 Recovery = 103.75%								
Fe 238.204†	2105.4	0.50315	mg/L	0.001391	0.50315	mg/L	0.001391	0.28%
QC value within limits for Fe 238.204 Recovery = 100.63%								
Mn 257.610†	160047.0	0.51744	mg/L	0.005496	0.51744	mg/L	0.005496	1.06%
QC value within limits for Mn 257.610 Recovery = 103.49%								
Ni 231.604†	11910.9	0.50749	mg/L	0.005790	0.50749	mg/L	0.005790	1.14%
QC value within limits for Ni 231.604 Recovery = 101.50%								
Pb 220.353†	2563.9	0.50053	mg/L	0.005898	0.50053	mg/L	0.005898	1.18%
QC value within limits for Pb 220.353 Recovery = 100.11%								
Pb 217.000†	564.6	0.49966	mg/L	0.013060	0.49966	mg/L	0.013060	2.61%
Sb 206.836†	480.7	0.47820	mg/L	0.004814	0.47820	mg/L	0.004814	1.01%
QC value within limits for Sb 206.836 Recovery = 95.64%								
Se 203.985†	383.7	0.51329	mg/L	0.002702	0.51329	mg/L	0.002702	0.53%
Se 196.026†	406.2	0.50289	mg/L	0.008763	0.50289	mg/L	0.008763	1.74%
QC value within limits for Se 196.026 Recovery = 100.58%								
Zn 206.200†	13244.5	0.50685	mg/L	0.006415	0.50685	mg/L	0.006415	1.27%
QC value within limits for Zn 206.200 Recovery = 101.37%								

All analyte(s) passed QC.

Sequence No.: 27 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 7/2/2014 11:23:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35203.1	102.89	%	0.820				0.80%
Y 371.029	652787.4	103.79	%	0.723				0.70%
Ag 328.068†	1.5	0.00002	mg/L	0.000239	0.00002	mg/L	0.000239	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.2	0.00028	mg/L	0.000802	0.00028	mg/L	0.000802	288.73%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	5.6	0.00656	mg/L	0.002192	0.00656	mg/L	0.002192	33.43%
Ba 233.527†	12.8	0.00022	mg/L	0.000018	0.00022	mg/L	0.000018	7.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-149.0	-0.00004	mg/L	0.000007	-0.00004	mg/L	0.000007	18.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	-1.6	-0.00013	mg/L	0.000106	-0.00013	mg/L	0.000106	82.11%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.8	0.00006	mg/L	0.000027	0.00006	mg/L	0.000027	42.39%
Cr 267.716†	0.5	0.00002	mg/L	0.000438	0.00002	mg/L	0.000438	>999.9%
Cr 205.560†	15.3	0.00055	mg/L	0.000073	0.00055	mg/L	0.000073	13.18%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	73.8	0.00061	mg/L	0.000160	0.00061	mg/L	0.000160	26.10%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	4.6	0.00110	mg/L	0.001669	0.00110	mg/L	0.001669	151.39%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Mn 257.610†	-41.2	-0.00013	mg/L	0.000051	-0.00013	mg/L	0.000051	38.51%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	5.4	0.00023	mg/L	0.000145	0.00023	mg/L	0.000145	62.53%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-9.7	-0.00190	mg/L	0.001077	-0.00190	mg/L	0.001077	56.79%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	5.6	0.00497	mg/L	0.003472	0.00497	mg/L	0.003472	69.93%
Sb 206.836†	4.7	0.00464	mg/L	0.011334	0.00464	mg/L	0.011334	244.41%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	12.0	0.01600	mg/L	0.009692	0.01600	mg/L	0.009692	60.57%
Se 196.026†	0.8	0.00100	mg/L	0.008583	0.00100	mg/L	0.008583	856.23%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	1.4	0.00005	mg/L	0.000064	0.00005	mg/L	0.000064	119.23%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/2/2014 11:25:26 AM **Plasma On Time: 7/2/2014 8:42:54 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 29 **Autosampler Location: 111**

Se 196.026†	477.3	0.59084 mg/L	0.002947	0.59084 mg/L	0.002947	0.50%
Zn 206.200†	2576.5	0.09860 mg/L	0.001006	0.09860 mg/L	0.001006	1.02%

Matrix Recovery Check: 1407055-001AMSD 5X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	0.52449	0.11925	0.003	mg/L	19.0
Ag 328.068	0.10030	0.01905	0.000	mg/L	18.7
As 188.979	0.49982	0.10341	0.004	mg/L	20.7
As 193.696	0.50493	0.09957	0.001	mg/L	18.9
Ba 233.527	0.50081	0.09495	0.001	mg/L	18.8
Be 313.107	0.50010	0.09770	0.000	mg/L	19.5
Cd 228.802	0.49969	0.09592	0.001	mg/L	19.2
Cd 226.502	0.50013	0.09579	0.001	mg/L	19.1
Cr 267.716	0.50008	0.09517	0.001	mg/L	19.0
Cr 205.560	0.49974	0.09344	0.001	mg/L	18.7
Cu 324.752	0.49924	0.09065	0.000	mg/L	18.3
Mn 257.610	0.50487	0.09907	0.000	mg/L	18.8
Ni 231.604	0.49979	0.09290	0.001	mg/L	18.6
Pb 220.353	0.49767	0.09136	0.002	mg/L	18.7
Pb 217.000	0.50658	0.09658	0.003	mg/L	18.0
Sb 206.836	0.49014	0.08900	0.006	mg/L	19.8
Se 203.985	0.96580	0.55221	0.007	mg/L	17.3
Se 196.026	0.99286	0.59084	0.003	mg/L	19.6
Zn 206.200	0.50075	0.09860	0.001	mg/L	19.6

Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/2/2014 12:13:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	263.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36738.7	107.38	%	1.461				1.36%
Y 371.029	659600.5	104.87	%	0.684				0.65%
Ag 328.068†	46562.4	0.48724	mg/L	0.006096	0.48724	mg/L	0.006096	1.25%
QC value within limits for Ag 328.068 Recovery = 97.45%								
As 188.979†	350.3	0.49880	mg/L	0.001820	0.49880	mg/L	0.001820	0.36%
QC value within limits for As 188.979 Recovery = 99.76%								
As 193.696†	424.2	0.49605	mg/L	0.004836	0.49605	mg/L	0.004836	0.97%
Ba 233.527†	29154.5	0.50709	mg/L	0.007117	0.50709	mg/L	0.007117	1.40%
QC value within limits for Ba 233.527 Recovery = 101.42%								
Be 313.107†	1856933.1	0.49576	mg/L	0.001490	0.49576	mg/L	0.001490	0.30%
QC value within limits for Be 313.107 Recovery = 99.15%								
Cd 228.802†	6307.7	0.50126	mg/L	0.003064	0.50126	mg/L	0.003064	0.61%
QC value within limits for Cd 228.802 Recovery = 100.25%								
Cd 226.502†	22273.4	0.51176	mg/L	0.007160	0.51176	mg/L	0.007160	1.40%
Cr 267.716†	14675.8	0.50507	mg/L	0.007396	0.50507	mg/L	0.007396	1.46%
Cr 205.560†	13965.9	0.50247	mg/L	0.006460	0.50247	mg/L	0.006460	1.29%
QC value within limits for Cr 205.560 Recovery = 100.49%								
Cu 324.752†	60454.7	0.50277	mg/L	0.006247	0.50277	mg/L	0.006247	1.24%
QC value within limits for Cu 324.752 Recovery = 100.55%								
Fe 238.204†	2097.8	0.50134	mg/L	0.002709	0.50134	mg/L	0.002709	0.54%
QC value within limits for Fe 238.204 Recovery = 100.27%								
Mn 257.610†	158778.8	0.51334	mg/L	0.006834	0.51334	mg/L	0.006834	1.33%
QC value within limits for Mn 257.610 Recovery = 102.67%								
Ni 231.604†	11938.3	0.50865	mg/L	0.006448	0.50865	mg/L	0.006448	1.27%
QC value within limits for Ni 231.604 Recovery = 101.73%								
Pb 220.353†	2558.3	0.49943	mg/L	0.005483	0.49943	mg/L	0.005483	1.10%

QC value within limits for Pb 220.353 Recovery = 99.89%

Pb 217.000†	541.7	0.47941 mg/L	0.012044	0.47941 mg/L	0.012044	2.51%
Sb 206.836†	479.7	0.47724 mg/L	0.009429	0.47724 mg/L	0.009429	1.98%

QC value within limits for Sb 206.836 Recovery = 95.45%

Se 203.985†	371.3	0.49672 mg/L	0.013511	0.49672 mg/L	0.013511	2.72%
Se 196.026†	407.2	0.50410 mg/L	0.004412	0.50410 mg/L	0.004412	0.88%

QC value within limits for Se 196.026 Recovery = 100.82%

Zn 206.200†	13436.0	0.51417 mg/L	0.007565	0.51417 mg/L	0.007565	1.47%

QC value within limits for Zn 206.200 Recovery = 102.83%

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/2/2014 12:15:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	263.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	36773.0	107.48	%	0.511				0.48%
Y 371.029	676747.7	107.60	%	0.952				0.89%
Ag 328.068†	36.3	0.00038	mg/L	0.000098	0.00038	mg/L	0.000098	25.73%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	3.6	0.00513	mg/L	0.001923	0.00513	mg/L	0.001923	37.48%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	5.1	0.00600	mg/L	0.004281	0.00600	mg/L	0.004281	71.33%
Ba 233.527†	11.1	0.00019	mg/L	0.000089	0.00019	mg/L	0.000089	45.90%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	76.6	0.00002	mg/L	0.000021	0.00002	mg/L	0.000021	102.74%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	-1.5	-0.00012	mg/L	0.000025	-0.00012	mg/L	0.000025	21.13%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	7.4	0.00017	mg/L	0.000156	0.00017	mg/L	0.000156	91.54%
Cr 267.716†	4.9	0.00017	mg/L	0.000204	0.00017	mg/L	0.000204	120.68%
Cr 205.560†	14.9	0.00054	mg/L	0.000376	0.00054	mg/L	0.000376	69.94%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-34.6	-0.00029	mg/L	0.000497	-0.00029	mg/L	0.000497	172.57%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	-12.8	-0.00306	mg/L	0.001292	-0.00306	mg/L	0.001292	42.25%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Mn 257.610†	-39.7	-0.00013	mg/L	0.000059	-0.00013	mg/L	0.000059	46.07%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-6.6	-0.00028	mg/L	0.000175	-0.00028	mg/L	0.000175	62.05%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-4.7	-0.00091	mg/L	0.001152	-0.00091	mg/L	0.001152	125.97%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	11.4	0.01011	mg/L	0.002083	0.01011	mg/L	0.002083	20.61%
Sb 206.836†	5.5	0.00550	mg/L	0.004013	0.00550	mg/L	0.004013	73.02%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	9.3	0.01243	mg/L	0.004126	0.01243	mg/L	0.004126	33.19%
Se 196.026†	1.8	0.00225	mg/L	0.005909	0.00225	mg/L	0.005909	262.26%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	0.8	0.00003	mg/L	0.000099	0.00003	mg/L	0.000099	325.05%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:

Autosampler Location: 3
Date Collected: 7/2/2014 12:17:18 PM
Data Type: Original
Initial Sample Vol:

Be 313.107†	360.0	0.00010 mg/L	0.000015	0.00010 mg/L	0.000015	15.46%
Cd 228.802†	-3.9	-0.00031 mg/L	0.000509	-0.00031 mg/L	0.000509	162.29%
Cd 226.502†	9.1	0.00021 mg/L	0.000153	0.00021 mg/L	0.000153	72.78%
Cr 267.716†	113.6	0.00391 mg/L	0.000196	0.00391 mg/L	0.000196	5.01%
Cr 205.560†	92.3	0.00332 mg/L	0.000732	0.00332 mg/L	0.000732	22.04%
Cu 324.752†	-122.2	-0.00102 mg/L	0.000261	-0.00102 mg/L	0.000261	25.72%
Mn 257.610†	10992.9	0.03554 mg/L	0.000128	0.03554 mg/L	0.000128	0.36%
Ni 231.604†	32.3	0.00138 mg/L	0.000232	0.00138 mg/L	0.000232	16.87%
Pb 220.353†	-0.5	-0.00010 mg/L	0.001211	-0.00010 mg/L	0.001211	>999.9%
Pb 217.000†	11.3	0.00996 mg/L	0.004707	0.00996 mg/L	0.004707	47.26%
Sb 206.836†	0.2	0.00018 mg/L	0.009449	0.00018 mg/L	0.009449	>999.9%
Se 203.985†	96.7	0.12939 mg/L	0.007026	0.12939 mg/L	0.007026	5.43%
Se 196.026†	115.0	0.14242 mg/L	0.001463	0.14242 mg/L	0.001463	1.03%
Zn 206.200†	109.3	0.00418 mg/L	0.000079	0.00418 mg/L	0.000079	1.90%

Sequence No.: 56
Sample ID: 1406D88-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 132
Date Collected: 7/2/2014 12:20:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	710818.2	113.01	%	2.207				1.95%
Ag 328.068†	-75.3	-0.00079	mg/L	0.000441	-0.00079	mg/L	0.000441	55.97%
As 188.979†	16.5	0.02356	mg/L	0.005950	0.02356	mg/L	0.005950	25.25%
As 193.696†	-124.0	-0.14498	mg/L	0.002374	-0.14498	mg/L	0.002374	1.64%
Ba 233.527†	64618.7	1.1239	mg/L	0.02077	1.1239	mg/L	0.02077	1.85%
Be 313.107†	26613.5	0.00711	mg/L	0.000187	0.00711	mg/L	0.000187	2.63%
Cd 228.802†	-1.4	-0.00011	mg/L	0.000252	-0.00011	mg/L	0.000252	231.97%
Cd 226.502†	-343.3	-0.00789	mg/L	0.000201	-0.00789	mg/L	0.000201	2.54%
Cr 267.716†	3415.4	0.11754	mg/L	0.002275	0.11754	mg/L	0.002275	1.94%
Cr 205.560†	2692.6	0.09688	mg/L	0.002937	0.09688	mg/L	0.002937	3.03%
Cu 324.752†	10709.9	0.08907	mg/L	0.000829	0.08907	mg/L	0.000829	0.93%
Mn 257.610†	699652.0	2.2620	mg/L	0.04546	2.2620	mg/L	0.04546	2.01%
Ni 231.604†	2228.8	0.09496	mg/L	0.002514	0.09496	mg/L	0.002514	2.65%
Pb 220.353†	1229.7	0.24005	mg/L	0.003429	0.24005	mg/L	0.003429	1.43%
Pb 217.000†	336.0	0.29737	mg/L	0.002239	0.29737	mg/L	0.002239	0.75%
Sb 206.836†	2.5	0.00246	mg/L	0.006633	0.00246	mg/L	0.006633	269.98%
Se 203.985†	-30.9	-0.04137	mg/L	0.014914	-0.04137	mg/L	0.014914	36.05%
Se 196.026†	-36.9	-0.04567	mg/L	0.013572	-0.04567	mg/L	0.013572	29.72%
Zn 206.200†	9884.0	0.37825	mg/L	0.008200	0.37825	mg/L	0.008200	2.17%

Sequence No.: 57
Sample ID: 1406D88-001AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 133
Date Collected: 7/2/2014 12:21:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001AMS

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	713616.1	113.46	%	1.323				1.17%

Ag 328.068†	7785.5	0.08147 mg/L	0.001162	0.08147 mg/L	0.001162	1.43%
As 188.979†	299.0	0.42578 mg/L	0.014666	0.42578 mg/L	0.014666	3.44%
As 193.696†	137.7	0.16099 mg/L	0.010805	0.16099 mg/L	0.010805	6.71%
Ba 233.527†	108834.8	1.8930 mg/L	0.02250	1.8930 mg/L	0.02250	1.19%
Be 313.107†	1565690.5	0.41801 mg/L	0.000280	0.41801 mg/L	0.000280	0.07%
Cd 228.802†	4932.6	0.39199 mg/L	0.005081	0.39199 mg/L	0.005081	1.30%
Cd 226.502†	16250.5	0.37337 mg/L	0.003667	0.37337 mg/L	0.003667	0.98%
Cr 267.716†	15883.5	0.54664 mg/L	0.007344	0.54664 mg/L	0.007344	1.34%
Cr 205.560†	14471.0	0.52065 mg/L	0.005968	0.52065 mg/L	0.005968	1.15%
Cu 324.752†	61630.3	0.51255 mg/L	0.005341	0.51255 mg/L	0.005341	1.04%
Mn 257.610†	844835.6	2.7314 mg/L	0.00313	2.7314 mg/L	0.00313	0.11%
Ni 231.604†	11190.2	0.47678 mg/L	0.006634	0.47678 mg/L	0.006634	1.39%
Pb 220.353†	3212.7	0.62718 mg/L	0.004094	0.62718 mg/L	0.004094	0.65%
Pb 217.000†	830.1	0.73458 mg/L	0.014771	0.73458 mg/L	0.014771	2.01%
Sb 206.836†	170.0	0.16910 mg/L	0.005072	0.16910 mg/L	0.005072	3.00%
Se 203.985†	245.2	0.32800 mg/L	0.006501	0.32800 mg/L	0.006501	1.98%
Se 196.026†	259.9	0.32177 mg/L	0.026223	0.32177 mg/L	0.026223	8.15%
Zn 206.200†	20923.8	0.80072 mg/L	0.009213	0.80072 mg/L	0.009213	1.15%

Matrix Recovery Check: 1406D88-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09921	0.08147	0.001	mg/L	82.3
As 188.979	0.52356	0.42578	0.015	mg/L	80.4
As 193.696	0.35502	0.16099	0.011	mg/L	61.2
Ba 233.527	1.6239	1.8930	0.022	mg/L	153.8
Be 313.107	0.50711	0.41801	0.000	mg/L	82.2
Cd 228.802	0.49989	0.39199	0.005	mg/L	78.4
Cd 226.502	0.49211	0.37337	0.004	mg/L	76.3
Cr 267.716	0.61754	0.54664	0.007	mg/L	85.8
Cr 205.560	0.59688	0.52065	0.006	mg/L	84.8
Cu 324.752	0.58907	0.51255	0.005	mg/L	84.7
Mn 257.610	2.7620	2.7314	0.003	mg/L	93.9
Ni 231.604	0.59496	0.47678	0.007	mg/L	76.4
Pb 220.353	0.74005	0.62718	0.004	mg/L	77.4
Pb 217.000	0.79737	0.73458	0.015	mg/L	87.4
Sb 206.836	0.50246	0.16910	0.005	mg/L	33.3
Se 203.985	0.45863	0.32800	0.007	mg/L	73.9
Se 196.026	0.45433	0.32177	0.026	mg/L	73.5
Zn 206.200	0.87825	0.80072	0.009	mg/L	84.5

Sequence No.: 58
Sample ID: 1406D88-001AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 134
Date Collected: 7/2/2014 12:22:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001AMSD

Analyte	Back Pressure	Flow
All	263.0 kPa	0.55 L/min

Mean Data: 1406D88-001AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	733047.8	116.55	%	1.275				1.09%
Ag 328.068†	7568.9	0.07920	mg/L	0.000304	0.07920	mg/L	0.000304	0.38%
As 188.979†	301.9	0.42996	mg/L	0.007375	0.42996	mg/L	0.007375	1.72%
As 193.696†	151.2	0.17687	mg/L	0.013023	0.17687	mg/L	0.013023	7.36%
Ba 233.527†	88483.0	1.5390	mg/L	0.00209	1.5390	mg/L	0.00209	0.14%
Be 313.107†	1532542.6	0.40916	mg/L	0.001081	0.40916	mg/L	0.001081	0.26%
Cd 228.802†	4882.8	0.38803	mg/L	0.003131	0.38803	mg/L	0.003131	0.81%
Cd 226.502†	15864.1	0.36449	mg/L	0.002999	0.36449	mg/L	0.002999	0.82%
Cr 267.716†	15468.4	0.53235	mg/L	0.004592	0.53235	mg/L	0.004592	0.86%
Cr 205.560†	14047.0	0.50539	mg/L	0.004310	0.50539	mg/L	0.004310	0.85%
Cu 324.752†	59221.2	0.49251	mg/L	0.001502	0.49251	mg/L	0.001502	0.30%

Mn 257.610†	834322.6	2.6974	mg/L	0.00479	2.6974	mg/L	0.00479	0.18%
Ni 231.604†	10834.8	0.46164	mg/L	0.004915	0.46164	mg/L	0.004915	1.06%
Pb 220.353†	2890.8	0.56434	mg/L	0.004934	0.56434	mg/L	0.004934	0.87%
Pb 217.000†	739.0	0.65401	mg/L	0.004701	0.65401	mg/L	0.004701	0.72%
Sb 206.836†	160.9	0.16012	mg/L	0.002297	0.16012	mg/L	0.002297	1.43%
Se 203.985†	244.7	0.32741	mg/L	0.016252	0.32741	mg/L	0.016252	4.96%
Se 196.026†	271.1	0.33555	mg/L	0.006399	0.33555	mg/L	0.006399	1.91%
Zn 206.200†	19622.7	0.75093	mg/L	0.006285	0.75093	mg/L	0.006285	0.84%

Matrix Recovery Check: 1406D88-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09921	0.07920	0.000	mg/L	80.0
As 188.979	0.52356	0.42996	0.007	mg/L	81.3
As 193.696	0.35502	0.17687	0.013	mg/L	64.4
Ba 233.527	1.6239	1.5390	0.002	mg/L	83.0
Be 313.107	0.50711	0.40916	0.001	mg/L	80.4
Cd 228.802	0.49989	0.38803	0.003	mg/L	77.6
Cd 226.502	0.49211	0.36449	0.003	mg/L	74.5
Cr 267.716	0.61754	0.53235	0.005	mg/L	83.0
Cr 205.560	0.59688	0.50539	0.004	mg/L	81.7
Cu 324.752	0.58907	0.49251	0.002	mg/L	80.7
Mn 257.610	2.7620	2.6974	0.005	mg/L	87.1
Ni 231.604	0.59496	0.46164	0.005	mg/L	73.3
Pb 220.353	0.74005	0.56434	0.005	mg/L	64.9
Pb 217.000	0.79737	0.65401	0.005	mg/L	71.3
Sb 206.836	0.50246	0.16012	0.002	mg/L	31.5
Se 203.985	0.45863	0.32741	0.016	mg/L	73.8
Se 196.026	0.45433	0.33555	0.006	mg/L	76.2
Zn 206.200	0.87825	0.75093	0.006	mg/L	74.5

Sequence No.: 59
Sample ID: 1406D88-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 135
Date Collected: 7/2/2014 12:24:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	702175.9	111.64	%	0.136				0.12%
Ag 328.068†	-18.4	-0.00019	mg/L	0.000539	-0.00019	mg/L	0.000539	279.35%
As 188.979†	11.2	0.01602	mg/L	0.010702	0.01602	mg/L	0.010702	66.81%
As 193.696†	-62.9	-0.07355	mg/L	0.007321	-0.07355	mg/L	0.007321	9.95%
Ba 233.527†	34092.5	0.59298	mg/L	0.001232	0.59298	mg/L	0.001232	0.21%
Be 313.107†	13896.1	0.00371	mg/L	0.000019	0.00371	mg/L	0.000019	0.50%
Cd 228.802†	-5.3	-0.00042	mg/L	0.000631	-0.00042	mg/L	0.000631	150.17%
Cd 226.502†	-186.2	-0.00428	mg/L	0.000154	-0.00428	mg/L	0.000154	3.60%
Cr 267.716†	1806.5	0.06217	mg/L	0.000243	0.06217	mg/L	0.000243	0.39%
Cr 205.560†	1417.7	0.05101	mg/L	0.001181	0.05101	mg/L	0.001181	2.31%
Cu 324.752†	5347.5	0.04447	mg/L	0.000274	0.04447	mg/L	0.000274	0.62%
Mn 257.610†	369101.0	1.1933	mg/L	0.00256	1.1933	mg/L	0.00256	0.21%
Ni 231.604†	1179.2	0.05024	mg/L	0.000420	0.05024	mg/L	0.000420	0.84%
Pb 220.353†	684.8	0.13368	mg/L	0.001069	0.13368	mg/L	0.001069	0.80%
Pb 217.000†	169.5	0.15004	mg/L	0.006844	0.15004	mg/L	0.006844	4.56%
Sb 206.836†	-2.3	-0.00232	mg/L	0.003179	-0.00232	mg/L	0.003179	137.23%
Se 203.985†	-31.6	-0.04222	mg/L	0.021322	-0.04222	mg/L	0.021322	50.50%
Se 196.026†	-17.7	-0.02190	mg/L	0.005868	-0.02190	mg/L	0.005868	26.79%
Zn 206.200†	5166.6	0.19772	mg/L	0.001559	0.19772	mg/L	0.001559	0.79%

Sequence No.: 60
Sample ID: 1406D88-001AMS 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 136
Date Collected: 7/2/2014 12:25:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001AMS 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-001AMS 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	695561.3	110.59	%	0.949				0.86%
Ag 328.068†	4160.3	0.04354	mg/L	0.000134	0.04354	mg/L	0.000134	0.31%
As 188.979†	163.4	0.23263	mg/L	0.008272	0.23263	mg/L	0.008272	3.56%
As 193.696†	82.7	0.09677	mg/L	0.014314	0.09677	mg/L	0.014314	14.79%
Ba 233.527†	60214.5	1.0473	mg/L	0.00259	1.0473	mg/L	0.00259	0.25%
Be 313.107†	858457.1	0.22919	mg/L	0.000319	0.22919	mg/L	0.000319	0.14%
Cd 228.802†	2722.1	0.21632	mg/L	0.002027	0.21632	mg/L	0.002027	0.94%
Cd 226.502†	9068.6	0.20836	mg/L	0.000495	0.20836	mg/L	0.000495	0.24%
Cr 267.716†	8692.6	0.29916	mg/L	0.000466	0.29916	mg/L	0.000466	0.16%
Cr 205.560†	7907.0	0.28448	mg/L	0.002114	0.28448	mg/L	0.002114	0.74%
Cu 324.752†	31884.4	0.26517	mg/L	0.000689	0.26517	mg/L	0.000689	0.26%
Mn 257.610†	469034.4	1.5164	mg/L	0.00009	1.5164	mg/L	0.00009	0.01%
Ni 231.604†	6213.2	0.26472	mg/L	0.002331	0.26472	mg/L	0.002331	0.88%
Pb 220.353†	1798.8	0.35115	mg/L	0.003737	0.35115	mg/L	0.003737	1.06%
Pb 217.000†	463.2	0.40988	mg/L	0.008190	0.40988	mg/L	0.008190	2.00%
Sb 206.836†	78.3	0.07794	mg/L	0.003219	0.07794	mg/L	0.003219	4.13%
Se 203.985†	116.3	0.15564	mg/L	0.024411	0.15564	mg/L	0.024411	15.68%
Se 196.026†	132.8	0.16440	mg/L	0.016068	0.16440	mg/L	0.016068	9.77%
Zn 206.200†	11819.0	0.45230	mg/L	0.000702	0.45230	mg/L	0.000702	0.16%

Matrix Recovery Check: 1406D88-001AMS 2X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09981	0.04354	0.000	mg/L	43.7
As 188.979	0.51602	0.23263	0.008	mg/L	43.3
As 193.696	0.42645	0.09677	0.014	mg/L	34.1
Ba 233.527	1.0930	1.0473	0.003	mg/L	90.9
Be 313.107	0.50371	0.22919	0.000	mg/L	45.1
Cd 228.802	0.49958	0.21632	0.002	mg/L	43.3
Cd 226.502	0.49572	0.20836	0.000	mg/L	42.5
Cr 267.716	0.56217	0.29916	0.000	mg/L	47.4
Cr 205.560	0.55101	0.28448	0.002	mg/L	46.7
Cu 324.752	0.54447	0.26517	0.001	mg/L	44.1
Mn 257.610	1.6933	1.5164	0.000	mg/L	64.6
Ni 231.604	0.55024	0.26472	0.002	mg/L	42.9
Pb 220.353	0.63368	0.35115	0.004	mg/L	43.5
Pb 217.000	0.65004	0.40988	0.008	mg/L	52.0
Sb 206.836	0.49768	0.07794	0.003	mg/L	16.1
Se 203.985	0.45778	0.15564	0.024	mg/L	39.6
Se 196.026	0.47810	0.16440	0.016	mg/L	37.3
Zn 206.200	0.69772	0.45230	0.001	mg/L	50.9

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Sequence No.: 61
Sample ID: 1406D88-001AMSD 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 137
Date Collected: 7/2/2014 12:26:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-001AMSD 2X

Analyte	Back Pressure	Flow

All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-001AMSD 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	699174.2	111.16	%	0.434				0.39%
Ag 328.068†	4116.3	0.04307	mg/L	0.000250	0.04307	mg/L	0.000250	0.58%
As 188.979†	172.0	0.24497	mg/L	0.003144	0.24497	mg/L	0.003144	1.28%
As 193.696†	93.2	0.10894	mg/L	0.004587	0.10894	mg/L	0.004587	4.21%
Ba 233.527†	49512.4	0.86118	mg/L	0.002005	0.86118	mg/L	0.002005	0.23%
Be 313.107†	846187.5	0.22591	mg/L	0.000280	0.22591	mg/L	0.000280	0.12%
Cd 228.802†	2709.1	0.21529	mg/L	0.000984	0.21529	mg/L	0.000984	0.46%
Cd 226.502†	8964.0	0.20596	mg/L	0.001361	0.20596	mg/L	0.001361	0.66%
Cr 267.716†	8515.4	0.29306	mg/L	0.001501	0.29306	mg/L	0.001501	0.51%
Cr 205.560†	7817.5	0.28126	mg/L	0.001475	0.28126	mg/L	0.001475	0.52%
Cu 324.752†	31207.1	0.25953	mg/L	0.000796	0.25953	mg/L	0.000796	0.31%
Mn 257.610†	466359.1	1.5078	mg/L	0.00217	1.5078	mg/L	0.00217	0.14%
Ni 231.604†	6096.1	0.25974	mg/L	0.000303	0.25974	mg/L	0.000303	0.12%
Pb 220.353†	1637.2	0.31962	mg/L	0.002189	0.31962	mg/L	0.002189	0.68%
Pb 217.000†	418.9	0.37074	mg/L	0.007275	0.37074	mg/L	0.007275	1.96%
Sb 206.836†	86.2	0.08579	mg/L	0.015031	0.08579	mg/L	0.015031	17.52%
Se 203.985†	124.6	0.16664	mg/L	0.004057	0.16664	mg/L	0.004057	2.43%
Se 196.026†	142.3	0.17613	mg/L	0.005572	0.17613	mg/L	0.005572	3.16%
Zn 206.200†	11257.0	0.43079	mg/L	0.002373	0.43079	mg/L	0.002373	0.55%

Matrix Recovery Check: 1406D88-001AMSD 2X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09981	0.04307	0.000	mg/L	43.3
As 188.979	0.51602	0.24497	0.003	mg/L	45.8
As 193.696	0.42645	0.10894	0.005	mg/L	36.5
Ba 233.527	1.0930	0.86118	0.002	mg/L	53.6
Be 313.107	0.50371	0.22591	0.000	mg/L	44.4
Cd 228.802	0.49958	0.21529	0.001	mg/L	43.1
Cd 226.502	0.49572	0.20596	0.001	mg/L	42.0
Cr 267.716	0.56217	0.29306	0.002	mg/L	46.2
Cr 205.560	0.55101	0.28126	0.001	mg/L	46.1
Cu 324.752	0.54447	0.25953	0.001	mg/L	43.0
Mn 257.610	1.6933	1.5078	0.002	mg/L	62.9
Ni 231.604	0.55024	0.25974	0.000	mg/L	41.9
Pb 220.353	0.63368	0.31962	0.002	mg/L	37.2
Pb 217.000	0.65004	0.37074	0.007	mg/L	44.1
Sb 206.836	0.49768	0.08579	0.015	mg/L	17.6
Se 203.985	0.45778	0.16664	0.004	mg/L	41.8
Se 196.026	0.47810	0.17613	0.006	mg/L	39.6
Zn 206.200	0.69772	0.43079	0.002	mg/L	46.6

Sequence No.: 62
Sample ID: 1406D88-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 138
Date Collected: 7/2/2014 12:28:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-002A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	692579.9	110.11	%	0.798				0.72%
Ag 328.068†	-176.6	-0.00185	mg/L	0.000221	-0.00185	mg/L	0.000221	11.96%
As 188.979†	35.3	0.05023	mg/L	0.003089	0.05023	mg/L	0.003089	6.15%
As 193.696†	-101.8	-0.11907	mg/L	0.004583	-0.11907	mg/L	0.004583	3.85%

Ba 233.527†	94688.0	1.6469 mg/L	0.00316	1.6469 mg/L	0.00316	0.19%
Be 313.107†	23914.6	0.00638 mg/L	0.000029	0.00638 mg/L	0.000029	0.45%
Cd 228.802†	1.9	0.00015 mg/L	0.000263	0.00015 mg/L	0.000263	171.86%
Cd 226.502†	-324.4	-0.00745 mg/L	0.000182	-0.00745 mg/L	0.000182	2.44%
Cr 267.716†	3679.3	0.12662 mg/L	0.000616	0.12662 mg/L	0.000616	0.49%
Cr 205.560†	2927.1	0.10531 mg/L	0.001204	0.10531 mg/L	0.001204	1.14%
Cu 324.752†	10512.6	0.08743 mg/L	0.000673	0.08743 mg/L	0.000673	0.77%
Mn 257.610†	784823.4	2.5374 mg/L	0.00340	2.5374 mg/L	0.00340	0.13%
Ni 231.604†	2340.3	0.09971 mg/L	0.000075	0.09971 mg/L	0.000075	0.08%
Pb 220.353†	1704.9	0.33283 mg/L	0.004548	0.33283 mg/L	0.004548	1.37%
Pb 217.000†	443.2	0.39219 mg/L	0.009176	0.39219 mg/L	0.009176	2.34%
Sb 206.836†	-7.8	-0.00780 mg/L	0.007399	-0.00780 mg/L	0.007399	94.89%
Se 203.985†	-10.7	-0.01428 mg/L	0.010278	-0.01428 mg/L	0.010278	71.96%
Se 196.026†	-52.4	-0.06490 mg/L	0.007794	-0.06490 mg/L	0.007794	12.01%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.						
Zn 206.200†	11524.5	0.44103 mg/L	0.001989	0.44103 mg/L	0.001989	0.45%

Sequence No.: 63
Sample ID: 1406D88-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 139
Date Collected: 7/2/2014 12:29:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-002A 2X

Analyte	Back Pressure	Flow
All	263.0 kPa	0.55 L/min

Mean Data: 1406D88-002A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	682464.6	108.50	%	0.398				0.37%
Ag 328.068†	-76.3	-0.00080	mg/L	0.000033	-0.00080	mg/L	0.000033	4.17%
As 188.979†	21.4	0.03043	mg/L	0.004622	0.03043	mg/L	0.004622	15.19%
As 193.696†	-53.4	-0.06248	mg/L	0.003311	-0.06248	mg/L	0.003311	5.30%
Ba 233.527†	51407.4	0.89414	mg/L	0.000620	0.89414	mg/L	0.000620	0.07%
Be 313.107†	12931.3	0.00345	mg/L	0.000016	0.00345	mg/L	0.000016	0.45%
Cd 228.802†	-0.6	-0.00005	mg/L	0.000080	-0.00005	mg/L	0.000080	159.87%
Cd 226.502†	-184.9	-0.00425	mg/L	0.000231	-0.00425	mg/L	0.000231	5.45%
Cr 267.716†	1996.0	0.06869	mg/L	0.000107	0.06869	mg/L	0.000107	0.16%
Cr 205.560†	1559.3	0.05610	mg/L	0.000671	0.05610	mg/L	0.000671	1.20%
Cu 324.752†	5292.3	0.04401	mg/L	0.000105	0.04401	mg/L	0.000105	0.24%
Mn 257.610†	425624.7	1.3761	mg/L	0.00115	1.3761	mg/L	0.00115	0.08%
Ni 231.604†	1283.1	0.05467	mg/L	0.000467	0.05467	mg/L	0.000467	0.85%
Pb 220.353†	943.8	0.18425	mg/L	0.002210	0.18425	mg/L	0.002210	1.20%
Pb 217.000†	244.8	0.21663	mg/L	0.011904	0.21663	mg/L	0.011904	5.50%
Sb 206.836†	-8.7	-0.00869	mg/L	0.011150	-0.00869	mg/L	0.011150	128.39%
Se 203.985†	-33.8	-0.04523	mg/L	0.017828	-0.04523	mg/L	0.017828	39.41%
Se 196.026†	-27.4	-0.03388	mg/L	0.005253	-0.03388	mg/L	0.005253	15.50%
Zn 206.200†	6389.3	0.24451	mg/L	0.000935	0.24451	mg/L	0.000935	0.38%

Sequence No.: 64
Sample ID: 1406D88-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 140
Date Collected: 7/2/2014 12:30:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-003A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-003A

Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	734931.1	116.85	%	0.429				0.37%
Ag 328.068†	69.6	0.00073	mg/L	0.000380	0.00073	mg/L	0.000380	52.17%
As 188.979†	27.8	0.03962	mg/L	0.002084	0.03962	mg/L	0.002084	5.26%
As 193.696†	-182.8	-0.21374	mg/L	0.009380	-0.21374	mg/L	0.009380	4.39%
Ba 233.527†	73525.4	1.2788	mg/L	0.00312	1.2788	mg/L	0.00312	0.24%
Be 313.107†	32329.3	0.00863	mg/L	0.000031	0.00863	mg/L	0.000031	0.36%
Cd 228.802†	-2.2	-0.00018	mg/L	0.000099	-0.00018	mg/L	0.000099	56.22%
Cd 226.502†	-468.6	-0.01077	mg/L	0.000259	-0.01077	mg/L	0.000259	2.41%
Cr 267.716†	4812.5	0.16562	mg/L	0.000531	0.16562	mg/L	0.000531	0.32%
Cr 205.560†	3861.6	0.13893	mg/L	0.000971	0.13893	mg/L	0.000971	0.70%
Cu 324.752†	11544.6	0.09601	mg/L	0.000347	0.09601	mg/L	0.000347	0.36%
Mn 257.610†	564791.0	1.8260	mg/L	0.00142	1.8260	mg/L	0.00142	0.08%
Ni 231.604†	2734.3	0.11650	mg/L	0.001041	0.11650	mg/L	0.001041	0.89%
Pb 220.353†	248.2	0.04845	mg/L	0.001067	0.04845	mg/L	0.001067	2.20%
Pb 217.000†	124.7	0.11032	mg/L	0.009682	0.11032	mg/L	0.009682	8.78%
Sb 206.836†	2.9	0.00292	mg/L	0.007870	0.00292	mg/L	0.007870	269.64%
Se 203.985†	-35.9	-0.04807	mg/L	0.006428	-0.04807	mg/L	0.006428	13.37%
Se 196.026†	-40.2	-0.04980	mg/L	0.002129	-0.04980	mg/L	0.002129	4.27%
Zn 206.200†	11894.0	0.45516	mg/L	0.001226	0.45516	mg/L	0.001226	0.27%

Sequence No.: 65
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/2/2014 12:31:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	652507.4	103.74	%	0.783				0.75%
Ag 328.068†	47278.1	0.49473	mg/L	0.002502	0.49473	mg/L	0.002502	0.51%
QC value within limits for Ag 328.068 Recovery = 98.95%								
As 188.979†	358.9	0.51105	mg/L	0.002327	0.51105	mg/L	0.002327	0.46%
QC value within limits for As 188.979 Recovery = 102.21%								
As 193.696†	427.8	0.50033	mg/L	0.004616	0.50033	mg/L	0.004616	0.92%
Ba 233.527†	29639.1	0.51552	mg/L	0.003308	0.51552	mg/L	0.003308	0.64%
QC value within limits for Ba 233.527 Recovery = 103.10%								
Be 313.107†	1872323.3	0.49987	mg/L	0.001219	0.49987	mg/L	0.001219	0.24%
QC value within limits for Be 313.107 Recovery = 99.97%								
Cd 228.802†	6445.5	0.51221	mg/L	0.001492	0.51221	mg/L	0.001492	0.29%
QC value within limits for Cd 228.802 Recovery = 102.44%								
Cd 226.502†	22643.2	0.52025	mg/L	0.001825	0.52025	mg/L	0.001825	0.35%
Cr 267.716†	14916.4	0.51335	mg/L	0.003696	0.51335	mg/L	0.003696	0.72%
Cr 205.560†	14238.5	0.51228	mg/L	0.004423	0.51228	mg/L	0.004423	0.86%
QC value within limits for Cr 205.560 Recovery = 102.46%								
Cu 324.752†	61663.7	0.51282	mg/L	0.004095	0.51282	mg/L	0.004095	0.80%
QC value within limits for Cu 324.752 Recovery = 102.56%								
Mn 257.610†	162241.8	0.52454	mg/L	0.003283	0.52454	mg/L	0.003283	0.63%
QC value within limits for Mn 257.610 Recovery = 104.91%								
Ni 231.604†	12141.2	0.51730	mg/L	0.003308	0.51730	mg/L	0.003308	0.64%
QC value within limits for Ni 231.604 Recovery = 103.46%								
Pb 220.353†	2607.0	0.50894	mg/L	0.001584	0.50894	mg/L	0.001584	0.31%
QC value within limits for Pb 220.353 Recovery = 101.79%								
Pb 217.000†	560.5	0.49604	mg/L	0.010361	0.49604	mg/L	0.010361	2.09%
Sb 206.836†	480.7	0.47818	mg/L	0.004536	0.47818	mg/L	0.004536	0.95%
QC value within limits for Sb 206.836 Recovery = 95.64%								
Se 203.985†	384.8	0.51476	mg/L	0.011695	0.51476	mg/L	0.011695	2.27%
Se 196.026†	405.5	0.50196	mg/L	0.025615	0.50196	mg/L	0.025615	5.10%
QC value within limits for Se 196.026 Recovery = 100.39%								
Zn 206.200†	13680.1	0.52352	mg/L	0.001967	0.52352	mg/L	0.001967	0.38%
QC value within limits for Zn 206.200 Recovery = 104.70%								

NR

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All analyte(s) passed QC.

Sequence No.: 66
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/2/2014 12:33:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	669291.9	106.41	%	1.301				1.22%
Ag 328.068†	11.8	0.00012	mg/L	0.000498	0.00012	mg/L	0.000498	402.56%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	2.0	0.00290	mg/L	0.002271	0.00290	mg/L	0.002271	78.41%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	6.7	0.00784	mg/L	0.004791	0.00784	mg/L	0.004791	61.14%
Ba 233.527†	4.6	0.00008	mg/L	0.000443	0.00008	mg/L	0.000443	553.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	316.8	0.00008	mg/L	0.000035	0.00008	mg/L	0.000035	41.24%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	3.0	0.00024	mg/L	0.000012	0.00024	mg/L	0.000012	5.16%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.2	0.00014	mg/L	0.000149	0.00014	mg/L	0.000149	105.00%
Cr 267.716†	-2.3	-0.00008	mg/L	0.000236	-0.00008	mg/L	0.000236	303.97%
Cr 205.560†	-2.6	-0.00010	mg/L	0.000232	-0.00010	mg/L	0.000232	243.78%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-59.9	-0.00050	mg/L	0.000705	-0.00050	mg/L	0.000705	141.58%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mn 257.610†	-8.1	-0.00003	mg/L	0.000104	-0.00003	mg/L	0.000104	394.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-8.4	-0.00036	mg/L	0.000354	-0.00036	mg/L	0.000354	99.41%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-15.9	-0.00310	mg/L	0.001243	-0.00310	mg/L	0.001243	40.15%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	4.4	0.00392	mg/L	0.005314	0.00392	mg/L	0.005314	135.59%
Sb 206.836†	-2.6	-0.00255	mg/L	0.005317	-0.00255	mg/L	0.005317	208.25%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	2.5	0.00330	mg/L	0.012712	0.00330	mg/L	0.012712	385.80%
Se 196.026†	-2.8	-0.00343	mg/L	0.006673	-0.00343	mg/L	0.006673	194.37%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	-1.5	-0.00006	mg/L	0.000144	-0.00006	mg/L	0.000144	255.68%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 67
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/2/2014 12:34:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

7/3/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	663413.1	105.48 %	0.679				0.64%
Ag 328.068†	37.3	0.00039 mg/L	0.000083	0.00039 mg/L	0.000083		21.19%
As 188.979†	1.6	0.00225 mg/L	0.002225	0.00225 mg/L	0.002225		99.06%
As 193.696†	3.6	0.00424 mg/L	0.000763	0.00424 mg/L	0.000763		18.00%
Ba 233.527†	15.8	0.00028 mg/L	0.000272	0.00028 mg/L	0.000272		98.96%
Be 313.107†	352.6	0.00009 mg/L	0.000042	0.00009 mg/L	0.000042		44.84%
Cd 228.802†	-1.1	-0.00009 mg/L	0.000364	-0.00009 mg/L	0.000364		415.16%
Cd 226.502†	4.6	0.00011 mg/L	0.000071	0.00011 mg/L	0.000071		67.07%
Cr 267.716†	-1.5	-0.00005 mg/L	0.000148	-0.00005 mg/L	0.000148		290.78%
Cr 205.560†	-28.2	-0.00102 mg/L	0.000506	-0.00102 mg/L	0.000506		49.81%
Cu 324.752†	-101.8	-0.00085 mg/L	0.000504	-0.00085 mg/L	0.000504		59.56%
Mn 257.610†	32.9	0.00011 mg/L	0.000081	0.00011 mg/L	0.000081		76.48%
Ni 231.604†	4.4	0.00019 mg/L	0.000268	0.00019 mg/L	0.000268		143.14%
Pb 220.353†	-2.7	-0.00054 mg/L	0.000386	-0.00054 mg/L	0.000386		71.91%
Pb 217.000†	5.1	0.00452 mg/L	0.001017	0.00452 mg/L	0.001017		22.50%
Sb 206.836†	-3.3	-0.00331 mg/L	0.002450	-0.00331 mg/L	0.002450		73.95%
Se 203.985†	6.6	0.00879 mg/L	0.008559	0.00879 mg/L	0.008559		97.32%
Se 196.026†	-9.1	-0.01121 mg/L	0.003040	-0.01121 mg/L	0.003040		27.13%
Zn 206.200†	30.0	0.00115 mg/L	0.000169	0.00115 mg/L	0.000169		14.75%

All analyte(s) passed QC.

7/3/14

Sequence No.: 68
Sample ID: 1406D88-003A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 141
Date Collected: 7/2/2014 12:35:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-003A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-003A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	703659.6	111.87 %		1.411				1.26%
Ag 328.068†	33.4	0.00035 mg/L		0.000424	0.00035 mg/L		0.000424	121.36%
As 188.979†	16.9	0.02409 mg/L		0.005128	0.02409 mg/L		0.005128	21.29%
As 193.696†	-99.4	-0.11620 mg/L		0.008361	-0.11620 mg/L		0.008361	7.20%
Ba 233.527†	40371.0	0.70218 mg/L		0.000828	0.70218 mg/L		0.000828	0.12%
Be 313.107†	17827.1	0.00476 mg/L		0.000030	0.00476 mg/L		0.000030	0.63%
Cd 228.802†	-5.8	-0.00046 mg/L		0.000143	-0.00046 mg/L		0.000143	31.23%
Cd 226.502†	-276.3	-0.00635 mg/L		0.000061	-0.00635 mg/L		0.000061	0.96%
Cr 267.716†	2670.1	0.09189 mg/L		0.000683	0.09189 mg/L		0.000683	0.74%
Cr 205.560†	2139.1	0.07696 mg/L		0.001001	0.07696 mg/L		0.001001	1.30%
Cu 324.752†	5849.0	0.04864 mg/L		0.000447	0.04864 mg/L		0.000447	0.92%
Mn 257.610†	311014.3	1.0055 mg/L		0.00017	1.0055 mg/L		0.00017	0.02%
Ni 231.604†	1512.5	0.06444 mg/L		0.000355	0.06444 mg/L		0.000355	0.55%
Pb 220.353†	143.2	0.02795 mg/L		0.000762	0.02795 mg/L		0.000762	2.73%
Pb 217.000†	71.9	0.06367 mg/L		0.002779	0.06367 mg/L		0.002779	4.37%
Sb 206.836†	-4.7	-0.00469 mg/L		0.002277	-0.00469 mg/L		0.002277	48.52%
Se 203.985†	-17.9	-0.02393 mg/L		0.019093	-0.02393 mg/L		0.019093	79.78%
Se 196.026†	-24.8	-0.03066 mg/L		0.009224	-0.03066 mg/L		0.009224	30.08%
Zn 206.200†	6717.9	0.25708 mg/L		0.002628	0.25708 mg/L		0.002628	1.02%

Sequence No.: 69
Sample ID: 1406D88-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 142
Date Collected: 7/2/2014 12:37:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-004A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-004A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	650597.6	103.44	%	0.136				0.13%
Ag 328.068†	-458.3	-0.00480	mg/L	0.000350	-0.00480	mg/L	0.000350	7.31%
As 188.979†	45.7	0.06514	mg/L	0.008427	0.06514	mg/L	0.008427	12.94%
As 193.696†	-52.9	-0.06182	mg/L	0.013464	-0.06182	mg/L	0.013464	21.78%
Ba 233.527†	92326.5	1.6059	mg/L	0.00339	1.6059	mg/L	0.00339	0.21%
Be 313.107†	16447.8	0.00439	mg/L	0.000013	0.00439	mg/L	0.000013	0.30%
Cd 228.802†	-22.0	-0.00175	mg/L	0.000339	-0.00175	mg/L	0.000339	19.41%
Cd 226.502†	-170.0	-0.00391	mg/L	0.000107	-0.00391	mg/L	0.000107	2.74%
Cr 267.716†	1726.5	0.05942	mg/L	0.000226	0.05942	mg/L	0.000226	0.38%
Cr 205.560†	1355.4	0.04877	mg/L	0.000264	0.04877	mg/L	0.000264	0.54%
Cu 324.752†	2409.5	0.02004	mg/L	0.000460	0.02004	mg/L	0.000460	2.30%
Mn 257.610†	289040.8	0.93449	mg/L	0.001777	0.93449	mg/L	0.001777	0.19%
Ni 231.604†	1304.7	0.05559	mg/L	0.000306	0.05559	mg/L	0.000306	0.55%
Pb 220.353†	122.4	0.02390	mg/L	0.001305	0.02390	mg/L	0.001305	5.46%
Pb 217.000†	79.8	0.07062	mg/L	0.007171	0.07062	mg/L	0.007171	10.15%
Sb 206.836†	-21.2	-0.02105	mg/L	0.005640	-0.02105	mg/L	0.005640	26.79%
Se 203.985†	45.8	0.06122	mg/L	0.017819	0.06122	mg/L	0.017819	29.10%
Se 196.026†	-36.9	-0.04568	mg/L	0.022234	-0.04568	mg/L	0.022234	48.67%
Zn 206.200†	4258.3	0.16296	mg/L	0.000562	0.16296	mg/L	0.000562	0.34%

Sequence No.: 70
Sample ID: 1406D88-004A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 143
Date Collected: 7/2/2014 12:38:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-004A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-004A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	660556.6	105.02	%	0.665				0.63%
Ag 328.068†	-250.6	-0.00262	mg/L	0.000251	-0.00262	mg/L	0.000251	9.58%
As 188.979†	16.4	0.02340	mg/L	0.005578	0.02340	mg/L	0.005578	23.84%
As 193.696†	-26.5	-0.03094	mg/L	0.003893	-0.03094	mg/L	0.003893	12.58%
Ba 233.527†	48983.1	0.85198	mg/L	0.000829	0.85198	mg/L	0.000829	0.10%
Be 313.107†	8699.1	0.00232	mg/L	0.000034	0.00232	mg/L	0.000034	1.45%
Cd 228.802†	-18.4	-0.00146	mg/L	0.000368	-0.00146	mg/L	0.000368	25.17%
Cd 226.502†	-96.5	-0.00222	mg/L	0.000128	-0.00222	mg/L	0.000128	5.79%
Cr 267.716†	921.1	0.03170	mg/L	0.000304	0.03170	mg/L	0.000304	0.96%
Cr 205.560†	707.5	0.02545	mg/L	0.000621	0.02545	mg/L	0.000621	2.44%
Cu 324.752†	1094.9	0.00911	mg/L	0.000195	0.00911	mg/L	0.000195	2.14%
Mn 257.610†	152800.2	0.49401	mg/L	0.000718	0.49401	mg/L	0.000718	0.15%
Ni 231.604†	696.9	0.02969	mg/L	0.000343	0.02969	mg/L	0.000343	1.16%
Pb 220.353†	74.4	0.01453	mg/L	0.000971	0.01453	mg/L	0.000971	6.69%
Pb 217.000†	40.4	0.03579	mg/L	0.010915	0.03579	mg/L	0.010915	30.49%
Sb 206.836†	-20.9	-0.02076	mg/L	0.014223	-0.02076	mg/L	0.014223	68.50%
Se 203.985†	-4.9	-0.00661	mg/L	0.007175	-0.00661	mg/L	0.007175	108.59%
Se 196.026†	-27.6	-0.03415	mg/L	0.017004	-0.03415	mg/L	0.017004	49.79%
Zn 206.200†	2306.7	0.08828	mg/L	0.000373	0.08828	mg/L	0.000373	0.42%

Sequence No.: 71
Sample ID: 1406D88-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 144
Date Collected: 7/2/2014 12:39:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-005A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-005A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	685317.0	108.96	%	0.477				0.44%
Ag 328.068†	-326.5	-0.00342	mg/L	0.000188	-0.00342	mg/L	0.000188	5.50%
As 188.979†	41.1	0.05848	mg/L	0.006366	0.05848	mg/L	0.006366	10.89%
As 193.696†	-95.2	-0.11135	mg/L	0.003326	-0.11135	mg/L	0.003326	2.99%
Ba 233.527†	122575.2	2.1320	mg/L	0.00660	2.1320	mg/L	0.00660	0.31%
Be 313.107†	21821.1	0.00583	mg/L	0.000026	0.00583	mg/L	0.000026	0.45%
Cd 228.802†	-12.8	-0.00102	mg/L	0.000589	-0.00102	mg/L	0.000589	57.89%
Cd 226.502†	-300.9	-0.00691	mg/L	0.000278	-0.00691	mg/L	0.000278	4.02%
Cr 267.716†	3253.7	0.11198	mg/L	0.000712	0.11198	mg/L	0.000712	0.64%
Cr 205.560†	2598.7	0.09350	mg/L	0.000805	0.09350	mg/L	0.000805	0.86%
Cu 324.752†	9302.6	0.07736	mg/L	0.000192	0.07736	mg/L	0.000192	0.25%
Mn 257.610†	619258.9	2.0021	mg/L	0.00468	2.0021	mg/L	0.00468	0.23%
Ni 231.604†	2165.1	0.09225	mg/L	0.000980	0.09225	mg/L	0.000980	1.06%
Pb 220.353†	756.7	0.14772	mg/L	0.001986	0.14772	mg/L	0.001986	1.34%
Pb 217.000†	233.8	0.20689	mg/L	0.009071	0.20689	mg/L	0.009071	4.38%
Sb 206.836†	-13.4	-0.01336	mg/L	0.009780	-0.01336	mg/L	0.009780	73.21%
Se 203.985†	17.6	0.02355	mg/L	0.007671	0.02355	mg/L	0.007671	32.58%
Se 196.026†	-47.2	-0.05842	mg/L	0.013932	-0.05842	mg/L	0.013932	23.85%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	9721.9	0.37204	mg/L	0.002598	0.37204	mg/L	0.002598	0.70%

Sequence No.: 72
Sample ID: 1406D88-005A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 145
Date Collected: 7/2/2014 12:40:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-005A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-005A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	674645.3	107.26	%	0.690				0.64%
Ag 328.068†	-149.0	-0.00156	mg/L	0.000282	-0.00156	mg/L	0.000282	18.12%
As 188.979†	21.3	0.03027	mg/L	0.005817	0.03027	mg/L	0.005817	19.22%
As 193.696†	-44.7	-0.05225	mg/L	0.008447	-0.05225	mg/L	0.008447	16.17%
Ba 233.527†	66213.9	1.1517	mg/L	0.00490	1.1517	mg/L	0.00490	0.43%
Be 313.107†	11866.9	0.00317	mg/L	0.000020	0.00317	mg/L	0.000020	0.63%
Cd 228.802†	-12.8	-0.00102	mg/L	0.000297	-0.00102	mg/L	0.000297	29.12%
Cd 226.502†	-173.0	-0.00397	mg/L	0.000140	-0.00397	mg/L	0.000140	3.52%
Cr 267.716†	1736.8	0.05977	mg/L	0.000248	0.05977	mg/L	0.000248	0.41%
Cr 205.560†	1370.4	0.04931	mg/L	0.000930	0.04931	mg/L	0.000930	1.89%
Cu 324.752†	4642.2	0.03861	mg/L	0.000111	0.03861	mg/L	0.000111	0.29%
Mn 257.610†	334104.6	1.0802	mg/L	0.00176	1.0802	mg/L	0.00176	0.16%
Ni 231.604†	1176.2	0.05011	mg/L	0.000313	0.05011	mg/L	0.000313	0.62%
Pb 220.353†	409.7	0.07997	mg/L	0.001750	0.07997	mg/L	0.001750	2.19%
Pb 217.000†	133.7	0.11833	mg/L	0.003632	0.11833	mg/L	0.003632	3.07%
Sb 206.836†	-8.0	-0.00799	mg/L	0.002884	-0.00799	mg/L	0.002884	36.07%
Se 203.985†	-14.9	-0.01997	mg/L	0.005574	-0.01997	mg/L	0.005574	27.91%
Se 196.026†	-28.1	-0.03476	mg/L	0.016717	-0.03476	mg/L	0.016717	48.09%
Zn 206.200†	5305.3	0.20303	mg/L	0.001878	0.20303	mg/L	0.001878	0.92%

Sequence No.: 73
Sample ID: 1406D88-006A

Autosampler Location: 146
Date Collected: 7/2/2014 12:42:04 PM

Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-006A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-006A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	708529.0	112.65	%	1.035				0.92%
Ag 328.068†	-131.4	-0.00137	mg/L	0.000514	-0.00137	mg/L	0.000514	37.41%
As 188.979†	24.2	0.03451	mg/L	0.006162	0.03451	mg/L	0.006162	17.85%
As 193.696†	-139.8	-0.16352	mg/L	0.013504	-0.16352	mg/L	0.013504	8.26%
Ba 233.527†	76617.6	1.3326	mg/L	0.00175	1.3326	mg/L	0.00175	0.13%
Be 313.107†	27800.5	0.00742	mg/L	0.000032	0.00742	mg/L	0.000032	0.43%
Cd 228.802†	-3.2	-0.00026	mg/L	0.000103	-0.00026	mg/L	0.000103	40.20%
Cd 226.502†	-379.4	-0.00872	mg/L	0.000123	-0.00872	mg/L	0.000123	1.41%
Cr 267.716†	4102.3	0.14118	mg/L	0.000468	0.14118	mg/L	0.000468	0.33%
Cr 205.560†	3259.1	0.11726	mg/L	0.001394	0.11726	mg/L	0.001394	1.19%
Cu 324.752†	11334.4	0.09426	mg/L	0.000917	0.09426	mg/L	0.000917	0.97%
Mn 257.610†	797818.7	2.5794	mg/L	0.00047	2.5794	mg/L	0.00047	0.02%
Ni 231.604†	2595.6	0.11059	mg/L	0.000251	0.11059	mg/L	0.000251	0.23%
Pb 220.353†	1137.9	0.22213	mg/L	0.000523	0.22213	mg/L	0.000523	0.24%
Pb 217.000†	330.2	0.29226	mg/L	0.005140	0.29226	mg/L	0.005140	1.76%
Sb 206.836†	-0.6	-0.00063	mg/L	0.003929	-0.00063	mg/L	0.003929	621.00%
Se 203.985†	-19.2	-0.02575	mg/L	0.009812	-0.02575	mg/L	0.009812	38.10%
Se 196.026†	-38.2	-0.04732	mg/L	0.018864	-0.04732	mg/L	0.018864	39.86%
Zn 206.200†	29843.2	1.1421	mg/L	0.00456	1.1421	mg/L	0.00456	0.40%

Sequence No.: 74
Sample ID: 1406D88-006A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 147
Date Collected: 7/2/2014 12:43:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-006A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-006A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	697925.8	110.96	%	0.708				0.64%
Ag 328.068†	-32.1	-0.00034	mg/L	0.000386	-0.00034	mg/L	0.000386	114.97%
As 188.979†	14.2	0.02017	mg/L	0.004481	0.02017	mg/L	0.004481	22.22%
As 193.696†	-79.9	-0.09345	mg/L	0.003400	-0.09345	mg/L	0.003400	3.64%
Ba 233.527†	42292.8	0.73561	mg/L	0.000967	0.73561	mg/L	0.000967	0.13%
Be 313.107†	15277.3	0.00408	mg/L	0.000025	0.00408	mg/L	0.000025	0.61%
Cd 228.802†	-11.3	-0.00090	mg/L	0.000292	-0.00090	mg/L	0.000292	32.44%
Cd 226.502†	-218.1	-0.00501	mg/L	0.000244	-0.00501	mg/L	0.000244	4.88%
Cr 267.716†	2226.1	0.07661	mg/L	0.000871	0.07661	mg/L	0.000871	1.14%
Cr 205.560†	1784.6	0.06421	mg/L	0.000287	0.06421	mg/L	0.000287	0.45%
Cu 324.752†	5865.3	0.04878	mg/L	0.000291	0.04878	mg/L	0.000291	0.60%
Mn 257.610†	440497.7	1.4242	mg/L	0.00127	1.4242	mg/L	0.00127	0.09%
Ni 231.604†	1438.4	0.06129	mg/L	0.000346	0.06129	mg/L	0.000346	0.56%
Pb 220.353†	647.1	0.12633	mg/L	0.003140	0.12633	mg/L	0.003140	2.49%
Pb 217.000†	196.3	0.17373	mg/L	0.006160	0.17373	mg/L	0.006160	3.55%
Sb 206.836†	-6.9	-0.00688	mg/L	0.010928	-0.00688	mg/L	0.010928	158.84%
Se 203.985†	-35.1	-0.04701	mg/L	0.013892	-0.04701	mg/L	0.013892	29.55%
Se 196.026†	-23.0	-0.02841	mg/L	0.007047	-0.02841	mg/L	0.007047	24.80%
Zn 206.200†	16850.7	0.64485	mg/L	0.002335	0.64485	mg/L	0.002335	0.36%

Sequence No.: 75
Sample ID: 1406D88-007A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 148
Date Collected: 7/2/2014 12:44:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-007A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-007A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	687814.0	109.35	%	0.336				0.31%
Ag 328.068†	-292.2	-0.00306	mg/L	0.000210	-0.00306	mg/L	0.000210	6.87%
As 188.979†	39.7	0.05652	mg/L	0.002391	0.05652	mg/L	0.002391	4.23%
As 193.696†	-113.0	-0.13218	mg/L	0.009068	-0.13218	mg/L	0.009068	6.86%
Ba 233.527†	103488.0	1.8000	mg/L	0.00324	1.8000	mg/L	0.00324	0.18%
Be 313.107†	23704.6	0.00633	mg/L	0.000025	0.00633	mg/L	0.000025	0.40%
Cd 228.802†	-11.7	-0.00093	mg/L	0.000333	-0.00093	mg/L	0.000333	35.94%
Cd 226.502†	-303.6	-0.00698	mg/L	0.000123	-0.00698	mg/L	0.000123	1.77%
Cr 267.716†	3221.6	0.11087	mg/L	0.000605	0.11087	mg/L	0.000605	0.55%
Cr 205.560†	2551.1	0.09179	mg/L	0.001469	0.09179	mg/L	0.001469	1.60%
Cu 324.752†	8304.7	0.06907	mg/L	0.000259	0.06907	mg/L	0.000259	0.38%
Mn 257.610†	652818.1	2.1106	mg/L	0.00277	2.1106	mg/L	0.00277	0.13%
Ni 231.604†	2097.0	0.08935	mg/L	0.000720	0.08935	mg/L	0.000720	0.81%
Pb 220.353†	2342.5	0.45731	mg/L	0.004558	0.45731	mg/L	0.004558	1.00%
Pb 217.000†	606.2	0.53650	mg/L	0.015006	0.53650	mg/L	0.015006	2.80%
Sb 206.836†	-14.8	-0.01470	mg/L	0.012246	-0.01470	mg/L	0.012246	83.28%
Se 203.985†	10.8	0.01442	mg/L	0.016378	0.01442	mg/L	0.016378	113.59%
Se 196.026†	-41.7	-0.05163	mg/L	0.007660	-0.05163	mg/L	0.007660	14.84%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	8587.0	0.32861	mg/L	0.001716	0.32861	mg/L	0.001716	0.52%

Sequence No.: 76
Sample ID: 1406D88-007A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 149
Date Collected: 7/2/2014 12:45:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-007A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-007A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	680868.9	108.25	%	0.322				0.30%
Ag 328.068†	-146.5	-0.00153	mg/L	0.000279	-0.00153	mg/L	0.000279	18.23%
As 188.979†	17.2	0.02445	mg/L	0.006597	0.02445	mg/L	0.006597	26.98%
As 193.696†	-59.9	-0.07001	mg/L	0.002844	-0.07001	mg/L	0.002844	4.06%
Ba 233.527†	56922.4	0.99007	mg/L	0.001279	0.99007	mg/L	0.001279	0.13%
Be 313.107†	13027.2	0.00348	mg/L	0.000008	0.00348	mg/L	0.000008	0.23%
Cd 228.802†	-11.8	-0.00094	mg/L	0.000028	-0.00094	mg/L	0.000028	2.94%
Cd 226.502†	-181.5	-0.00417	mg/L	0.000132	-0.00417	mg/L	0.000132	3.16%
Cr 267.716†	1744.3	0.06003	mg/L	0.000172	0.06003	mg/L	0.000172	0.29%
Cr 205.560†	1386.2	0.04988	mg/L	0.000485	0.04988	mg/L	0.000485	0.97%
Cu 324.752†	4264.6	0.03547	mg/L	0.000230	0.03547	mg/L	0.000230	0.65%
Mn 257.610†	359247.6	1.1615	mg/L	0.00091	1.1615	mg/L	0.00091	0.08%
Ni 231.604†	1145.1	0.04879	mg/L	0.000795	0.04879	mg/L	0.000795	1.63%
Pb 220.353†	1308.2	0.25539	mg/L	0.002712	0.25539	mg/L	0.002712	1.06%

Pb 217.000†	321.7	0.28465 mg/L	0.006340	0.28465 mg/L	0.006340	2.23%
Sb 206.836†	-5.2	-0.00515 mg/L	0.003106	-0.00515 mg/L	0.003106	60.29%
Se 203.985†	-10.9	-0.01458 mg/L	0.011649	-0.01458 mg/L	0.011649	79.88%
Se 196.026†	-24.9	-0.03079 mg/L	0.001068	-0.03079 mg/L	0.001068	3.47%
Zn 206.200†	4757.3	0.18205 mg/L	0.000507	0.18205 mg/L	0.000507	0.28%

Sequence No.: 77
Sample ID: 1406D88-008A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 150
Date Collected: 7/2/2014 12:47:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D88-008A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-008A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	680650.2	108.22	%	0.927				0.86%
Ag 328.068†	-231.1	-0.00242	mg/L	0.000518	-0.00242	mg/L	0.000518	21.43%
As 188.979†	39.6	0.05636	mg/L	0.002329	0.05636	mg/L	0.002329	4.13%
As 193.696†	-117.8	-0.13775	mg/L	0.006300	-0.13775	mg/L	0.006300	4.57%
Ba 233.527†	114919.8	1.9988	mg/L	0.00862	1.9988	mg/L	0.00862	0.43%
Be 313.107†	24429.6	0.00652	mg/L	0.000034	0.00652	mg/L	0.000034	0.53%
Cd 228.802†	-6.5	-0.00051	mg/L	0.000160	-0.00051	mg/L	0.000160	31.22%
Cd 226.502†	-338.4	-0.00778	mg/L	0.000071	-0.00778	mg/L	0.000071	0.91%
Cr 267.716†	3317.8	0.11418	mg/L	0.000757	0.11418	mg/L	0.000757	0.66%
Cr 205.560†	2628.5	0.09457	mg/L	0.000677	0.09457	mg/L	0.000677	0.72%
Cu 324.752†	8709.0	0.07243	mg/L	0.000369	0.07243	mg/L	0.000369	0.51%
Mn 257.610†	676193.5	2.1862	mg/L	0.00824	2.1862	mg/L	0.00824	0.38%
Ni 231.604†	2266.6	0.09657	mg/L	0.001141	0.09657	mg/L	0.001141	1.18%
Pb 220.353†	386.4	0.07543	mg/L	0.003723	0.07543	mg/L	0.003723	4.94%
Pb 217.000†	152.6	0.13502	mg/L	0.005831	0.13502	mg/L	0.005831	4.32%
Sb 206.836†	-8.0	-0.00801	mg/L	0.013717	-0.00801	mg/L	0.013717	171.34%
Se 203.985†	1.1	0.00151	mg/L	0.028027	0.00151	mg/L	0.028027	>999.9%
Se 196.026†	-41.8	-0.05174	mg/L	0.012195	-0.05174	mg/L	0.012195	23.57%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	8822.9	0.33764	mg/L	0.001869	0.33764	mg/L	0.001869	0.55%

Sequence No.: 78
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/2/2014 12:48:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	658489.8	104.69	%	0.594				0.57%
Ag 328.068†	46843.5	0.49019	mg/L	0.006070	0.49019	mg/L	0.006070	1.24%
QC value within limits for Ag 328.068 Recovery = 98.04%								
As 188.979†	354.6	0.50490	mg/L	0.005641	0.50490	mg/L	0.005641	1.12%
QC value within limits for As 188.979 Recovery = 100.98%								
As 193.696†	429.3	0.50205	mg/L	0.005141	0.50205	mg/L	0.005141	1.02%
Ba 233.527†	29221.5	0.50826	mg/L	0.006294	0.50826	mg/L	0.006294	1.24%
QC value within limits for Ba 233.527 Recovery = 101.65%								
Be 313.107†	1878070.4	0.50141	mg/L	0.000655	0.50141	mg/L	0.000655	0.13%

QC value within limits for Be 313.107 Recovery = 100.28%						
Cd 228.802†	6386.3	0.50751 mg/L	0.004017	0.50751 mg/L	0.004017	0.79%
QC value within limits for Cd 228.802 Recovery = 101.50%						
Cd 226.502†	22372.2	0.51402 mg/L	0.006751	0.51402 mg/L	0.006751	1.31%
Cr 267.716†	14748.8	0.50758 mg/L	0.006213	0.50758 mg/L	0.006213	1.22%
Cr 205.560†	13994.5	0.50350 mg/L	0.005436	0.50350 mg/L	0.005436	1.08%
QC value within limits for Cr 205.560 Recovery = 100.70%						
Cu 324.752†	60994.5	0.50726 mg/L	0.006278	0.50726 mg/L	0.006278	1.24%
QC value within limits for Cu 324.752 Recovery = 101.45%						
Mn 257.610†	160019.2	0.51735 mg/L	0.006280	0.51735 mg/L	0.006280	1.21%
QC value within limits for Mn 257.610 Recovery = 103.47%						
Ni 231.604†	11990.0	0.51086 mg/L	0.007192	0.51086 mg/L	0.007192	1.41%
QC value within limits for Ni 231.604 Recovery = 102.17%						
Pb 220.353†	2567.1	0.50116 mg/L	0.004513	0.50116 mg/L	0.004513	0.90%
QC value within limits for Pb 220.353 Recovery = 100.23%						
Pb 217.000†	550.2	0.48689 mg/L	0.009319	0.48689 mg/L	0.009319	1.91%
Sb 206.836†	479.8	0.47737 mg/L	0.006333	0.47737 mg/L	0.006333	1.33%
QC value within limits for Sb 206.836 Recovery = 95.47%						
Se 203.985†	379.1	0.50715 mg/L	0.012096	0.50715 mg/L	0.012096	2.39%
Se 196.026†	398.6	0.49342 mg/L	0.008539	0.49342 mg/L	0.008539	1.73%
QC value within limits for Se 196.026 Recovery = 98.68%						
Zn 206.200†	13474.3	0.51564 mg/L	0.007500	0.51564 mg/L	0.007500	1.45%
QC value within limits for Zn 206.200 Recovery = 103.13%						

All analyte(s) passed QC.

Sequence No.: 79
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/2/2014 12:49:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	261.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	673068.5	107.01	%	0.923				0.86%
Ag 328.068†	5.1	0.00005	mg/L	0.000063	0.00005	mg/L	0.000063	117.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	5.6	0.00796	mg/L	0.002982	0.00796	mg/L	0.002982	37.44%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.7	0.00205	mg/L	0.002888	0.00205	mg/L	0.002888	141.19%
Ba 233.527†	7.1	0.00012	mg/L	0.000109	0.00012	mg/L	0.000109	88.16%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	302.9	0.00008	mg/L	0.000037	0.00008	mg/L	0.000037	45.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Cd 228.802†	0.3	0.00003	mg/L	0.000461	0.00003	mg/L	0.000461	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	0.8	0.00002	mg/L	0.000045	0.00002	mg/L	0.000045	238.53%
Cr 267.716†	-6.7	-0.00023	mg/L	0.000100	-0.00023	mg/L	0.000100	43.42%
Cr 205.560†	2.2	0.00008	mg/L	0.000967	0.00008	mg/L	0.000967	>999.9%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-57.7	-0.00048	mg/L	0.000611	-0.00048	mg/L	0.000611	127.35%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mn 257.610†	-21.6	-0.00007	mg/L	0.000111	-0.00007	mg/L	0.000111	159.10%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	1.3	0.00006	mg/L	0.000239	0.00006	mg/L	0.000239	417.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-11.2	-0.00218	mg/L	0.001127	-0.00218	mg/L	0.001127	51.70%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	9.0	0.00793	mg/L	0.000566	0.00793	mg/L	0.000566	7.13%
Sb 206.836†	-6.1	-0.00610	mg/L	0.003188	-0.00610	mg/L	0.003188	52.30%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	7.8	0.01046	mg/L	0.006083	0.01046	mg/L	0.006083	58.16%

Se 196.026†	-1.2	-0.00150 mg/L	0.003230	-0.00150 mg/L	0.003230	214.67%
QC value within limits for Se 196.026 Recovery = Not calculated						
Zn 206.200†	1.8	0.00007 mg/L	0.000056	0.00007 mg/L	0.000056	81.96%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 80
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/2/2014 12:51:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

BL 7/3/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	261.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	668275.8	106.25	%	0.644				0.61%
Ag 328.068†	16.8	0.00018	mg/L	0.000351	0.00018	mg/L	0.000351	199.68%
As 188.979†	-1.1	-0.00154	mg/L	0.002214	-0.00154	mg/L	0.002214	144.01%
As 193.696†	4.9	0.00568	mg/L	0.003973	0.00568	mg/L	0.003973	69.94%
Ba 233.527†	2.9	0.00005	mg/L	0.000399	0.00005	mg/L	0.000399	791.62%
Be 313.107†	315.0	0.00008	mg/L	0.000011	0.00008	mg/L	0.000011	13.16%
Cd 228.802†	-1.1	-0.00008	mg/L	0.000081	-0.00008	mg/L	0.000081	96.72%
Cd 226.502†	7.1	0.00016	mg/L	0.000122	0.00016	mg/L	0.000122	74.52%
Cr 267.716†	0.6	0.00002	mg/L	0.000278	0.00002	mg/L	0.000278	>999.9%
Cr 205.560†	-11.2	-0.00040	mg/L	0.000352	-0.00040	mg/L	0.000352	87.13%
Cu 324.752†	-83.9	-0.00070	mg/L	0.000436	-0.00070	mg/L	0.000436	62.50%
Mn 257.610†	24.2	0.00008	mg/L	0.000121	0.00008	mg/L	0.000121	154.79%
Ni 231.604†	3.0	0.00013	mg/L	0.000287	0.00013	mg/L	0.000287	222.56%
Pb 220.353†	-6.3	-0.00123	mg/L	0.000613	-0.00123	mg/L	0.000613	49.89%
Pb 217.000†	12.1	0.01068	mg/L	0.011560	0.01068	mg/L	0.011560	108.28%
Sb 206.836†	1.2	0.00121	mg/L	0.004119	0.00121	mg/L	0.004119	339.25%
Se 203.985†	9.1	0.01212	mg/L	0.010801	0.01212	mg/L	0.010801	89.13%
Se 196.026†	-7.3	-0.00910	mg/L	0.008314	-0.00910	mg/L	0.008314	91.38%
Zn 206.200†	30.0	0.00115	mg/L	0.000140	0.00115	mg/L	0.000140	12.17%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/2/2014 12:53:20 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/2/2014 8:42:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 81
Sample ID: 1406D88-01APS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 201
Date Collected: 7/2/2014 12:53:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1406D88-01APS

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D88-01APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	713880.8	113.50	%	0.704				0.62%
Ag 328.068†	7376.8	0.07719	mg/L	0.000305	0.07719	mg/L	0.000305	0.40%
As 188.979†	303.2	0.43174	mg/L	0.007484	0.43174	mg/L	0.007484	1.73%
As 193.696†	206.8	0.24190	mg/L	0.007170	0.24190	mg/L	0.007170	2.96%
Ba 233.527†	85755.6	1.4916	mg/L	0.00798	1.4916	mg/L	0.00798	0.53%
Be 313.107†	1553188.6	0.41467	mg/L	0.001191	0.41467	mg/L	0.001191	0.29%
Cd 228.802†	4907.4	0.38998	mg/L	0.001964	0.38998	mg/L	0.001964	0.50%
Cd 226.502†	16476.0	0.37855	mg/L	0.003805	0.37855	mg/L	0.003805	1.01%
Cr 267.716†	14714.6	0.50641	mg/L	0.003648	0.50641	mg/L	0.003648	0.72%
Cr 205.560†	13413.7	0.48261	mg/L	0.004814	0.48261	mg/L	0.004814	1.00%
Cu 324.752†	60205.9	0.50070	mg/L	0.001960	0.50070	mg/L	0.001960	0.39%
Mn 257.610†	796852.8	2.5763	mg/L	0.00362	2.5763	mg/L	0.00362	0.14%
Ni 231.604†	10992.2	0.46834	mg/L	0.004730	0.46834	mg/L	0.004730	1.01%
Pb 220.353†	3070.4	0.59940	mg/L	0.004121	0.59940	mg/L	0.004121	0.69%
Pb 217.000†	738.4	0.65347	mg/L	0.009387	0.65347	mg/L	0.009387	1.44%
Sb 206.836†	384.1	0.38217	mg/L	0.008304	0.38217	mg/L	0.008304	2.17%
Se 203.985†	270.4	0.36177	mg/L	0.010608	0.36177	mg/L	0.010608	2.93%
Se 196.026†	281.9	0.34898	mg/L	0.002570	0.34898	mg/L	0.002570	0.74%
Zn 206.200†	19493.7	0.74599	mg/L	0.007158	0.74599	mg/L	0.007158	0.96%

Sequence No.: 82
Sample ID: 1406D88-008A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20
User canceled analysis.

Autosampler Location: 151
Date Collected: 7/2/2014 12:54:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Analysis Begun

Start Time: 7/2/2014 12:55:36 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/2/2014 8:42:54 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070214 B14004.sif
Batch ID: 070214 B14004
Results Data Set: 070214 B14004
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 83
Sample ID: 1406D52-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 152
Date Collected: 7/2/2014 12:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1406D52-001A

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D52-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	684977.0	108.90	%	1.551				1.42%
Ag 328.068†	-109.4	-0.00114	mg/L	0.000320	-0.00114	mg/L	0.000320	28.00%
As 188.979†	39.4	0.05606	mg/L	0.009506	0.05606	mg/L	0.009506	16.96%
As 193.696†	-223.3	-0.26111	mg/L	0.014284	-0.26111	mg/L	0.014284	5.47%
Ba 233.527†	245881.3	4.2767	mg/L	0.05773	4.2767	mg/L	0.05773	1.35%
Be 313.107†	35432.5	0.00946	mg/L	0.000162	0.00946	mg/L	0.000162	1.71%
Cd 228.802†	-17.9	-0.00142	mg/L	0.000186	-0.00142	mg/L	0.000186	13.06%
Cd 226.502†	-472.1	-0.01085	mg/L	0.000164	-0.01085	mg/L	0.000164	1.51%

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D52-004A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	647990.6	103.02	%	0.553				0.54%
Ag 328.068†	-298.5	-0.00312	mg/L	0.000186	-0.00312	mg/L	0.000186	5.95%
As 188.979†	36.6	0.05218	mg/L	0.004629	0.05218	mg/L	0.004629	8.87%
As 193.696†	-157.3	-0.18401	mg/L	0.007938	-0.18401	mg/L	0.007938	4.31%
Ba 233.527†	252596.5	4.3935	mg/L	0.00914	4.3935	mg/L	0.00914	0.21%
Be 313.107†	28914.6	0.00772	mg/L	0.000029	0.00772	mg/L	0.000029	0.37%
Cd 228.802†	-14.2	-0.00113	mg/L	0.000090	-0.00113	mg/L	0.000090	8.01%
Cd 226.502†	-286.7	-0.00659	mg/L	0.000190	-0.00659	mg/L	0.000190	2.89%
Cr 267.716†	3856.1	0.13271	mg/L	0.000634	0.13271	mg/L	0.000634	0.48%
Cr 205.560†	3151.1	0.11337	mg/L	0.000713	0.11337	mg/L	0.000713	0.63%
Cu 324.752†	9559.6	0.07950	mg/L	0.000426	0.07950	mg/L	0.000426	0.54%
Mn 257.610†	955836.0	3.0903	mg/L	0.00498	3.0903	mg/L	0.00498	0.16%
Ni 231.604†	2608.3	0.11113	mg/L	0.001111	0.11113	mg/L	0.001111	1.00%
Pb 220.353†	175.5	0.03425	mg/L	0.004063	0.03425	mg/L	0.004063	11.86%
Pb 217.000†	122.1	0.10806	mg/L	0.006339	0.10806	mg/L	0.006339	5.87%
Sb 206.836†	-28.4	-0.02822	mg/L	0.005897	-0.02822	mg/L	0.005897	20.89%
Se 203.985†	18.0	0.02408	mg/L	0.008269	0.02408	mg/L	0.008269	34.34%
Se 196.026†	-54.6	-0.06761	mg/L	0.012084	-0.06761	mg/L	0.012084	17.87%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7785.0	0.29792	mg/L	0.002062	0.29792	mg/L	0.002062	0.69%

Sequence No.: 90
Sample ID: 1406D52-004A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 159
Date Collected: 7/2/2014 1:04:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D52-004A 2X

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: 1406D52-004A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	647093.5	102.88	%	0.647				0.63%
Ag 328.068†	-173.8	-0.00182	mg/L	0.000201	-0.00182	mg/L	0.000201	11.06%
As 188.979†	20.2	0.02870	mg/L	0.007813	0.02870	mg/L	0.007813	27.22%
As 193.696†	-81.5	-0.09533	mg/L	0.006364	-0.09533	mg/L	0.006364	6.68%
Ba 233.527†	136261.3	2.3700	mg/L	0.00487	2.3700	mg/L	0.00487	0.21%
Be 313.107†	15480.8	0.00413	mg/L	0.000030	0.00413	mg/L	0.000030	0.73%
Cd 228.802†	-12.4	-0.00099	mg/L	0.000249	-0.00099	mg/L	0.000249	25.22%
Cd 226.502†	-162.3	-0.00373	mg/L	0.000032	-0.00373	mg/L	0.000032	0.85%
Cr 267.716†	2053.4	0.07067	mg/L	0.001031	0.07067	mg/L	0.001031	1.46%
Cr 205.560†	1676.8	0.06033	mg/L	0.000694	0.06033	mg/L	0.000694	1.15%
Cu 324.752†	4722.3	0.03927	mg/L	0.000156	0.03927	mg/L	0.000156	0.40%
Mn 257.610†	514167.1	1.6623	mg/L	0.00322	1.6623	mg/L	0.00322	0.19%
Ni 231.604†	1418.3	0.06043	mg/L	0.000189	0.06043	mg/L	0.000189	0.31%
Pb 220.353†	104.7	0.02045	mg/L	0.002193	0.02045	mg/L	0.002193	10.73%
Pb 217.000†	57.2	0.05062	mg/L	0.003591	0.05062	mg/L	0.003591	7.09%
Sb 206.836†	-4.1	-0.00407	mg/L	0.010142	-0.00407	mg/L	0.010142	249.13%
Se 203.985†	-13.5	-0.01812	mg/L	0.009593	-0.01812	mg/L	0.009593	52.95%
Se 196.026†	-18.2	-0.02248	mg/L	0.018676	-0.02248	mg/L	0.018676	83.08%
Zn 206.200†	4276.9	0.16367	mg/L	0.000954	0.16367	mg/L	0.000954	0.58%

Sequence No.: 91
Sample ID: CCV
Analyst:
Initial Sample Wt:

Autosampler Location: 2
Date Collected: 7/2/2014 1:05:54 PM
Data Type: Original
Initial Sample Vol:

Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	637182.9	101.30	%	1.280				1.26%
Ag 328.068†	48104.8	0.50339	mg/L	0.004854	0.50339	mg/L	0.004854	0.96%
QC value within limits for Ag 328.068 Recovery = 100.68%								
As 188.979†	356.0	0.50698	mg/L	0.004179	0.50698	mg/L	0.004179	0.82%
QC value within limits for As 188.979 Recovery = 101.40%								
As 193.696†	432.4	0.50563	mg/L	0.007269	0.50563	mg/L	0.007269	1.44%
Ba 233.527†	29973.0	0.52133	mg/L	0.005786	0.52133	mg/L	0.005786	1.11%
QC value within limits for Ba 233.527 Recovery = 104.27%								
Be 313.107†	1902941.9	0.50805	mg/L	0.001260	0.50805	mg/L	0.001260	0.25%
QC value within limits for Be 313.107 Recovery = 101.61%								
Cd 228.802†	6524.9	0.51853	mg/L	0.005440	0.51853	mg/L	0.005440	1.05%
QC value within limits for Cd 228.802 Recovery = 103.71%								
Cd 226.502†	22799.8	0.52385	mg/L	0.005909	0.52385	mg/L	0.005909	1.13%
Cr 267.716†	15148.0	0.52132	mg/L	0.005598	0.52132	mg/L	0.005598	1.07%
Cr 205.560†	14342.7	0.51603	mg/L	0.007022	0.51603	mg/L	0.007022	1.36%
QC value within limits for Cr 205.560 Recovery = 103.21%								
Cu 324.752†	62706.9	0.52150	mg/L	0.004923	0.52150	mg/L	0.004923	0.94%
QC value within limits for Cu 324.752 Recovery = 104.30%								
Mn 257.610†	164335.4	0.53131	mg/L	0.004910	0.53131	mg/L	0.004910	0.92%
QC value within limits for Mn 257.610 Recovery = 106.26%								
Ni 231.604†	12270.2	0.52279	mg/L	0.005906	0.52279	mg/L	0.005906	1.13%
QC value within limits for Ni 231.604 Recovery = 104.56%								
Pb 220.353†	2617.2	0.51093	mg/L	0.005175	0.51093	mg/L	0.005175	1.01%
QC value within limits for Pb 220.353 Recovery = 102.19%								
Pb 217.000†	563.6	0.49878	mg/L	0.016716	0.49878	mg/L	0.016716	3.35%
Sb 206.836†	478.2	0.47569	mg/L	0.005484	0.47569	mg/L	0.005484	1.15%
QC value within limits for Sb 206.836 Recovery = 95.14%								
Se 203.985†	376.3	0.50343	mg/L	0.010708	0.50343	mg/L	0.010708	2.13%
Se 196.026†	401.7	0.49727	mg/L	0.007268	0.49727	mg/L	0.007268	1.46%
QC value within limits for Se 196.026 Recovery = 99.45%								
Zn 206.200†	13680.9	0.52355	mg/L	0.007411	0.52355	mg/L	0.007411	1.42%
QC value within limits for Zn 206.200 Recovery = 104.71%								

All analyte(s) passed QC.

Sequence No.: 92 **Autosampler Location:** 1
Sample ID: CCB **Date Collected:** 7/2/2014 1:07:18 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	670304.0	106.57	%	0.513				0.48%
Ag 328.068†	4.2	0.00004	mg/L	0.000428	0.00004	mg/L	0.000428	965.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.2	0.00168	mg/L	0.002178	0.00168	mg/L	0.002178	129.38%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	3.4	0.00400	mg/L	0.003176	0.00400	mg/L	0.003176	79.46%
Ba 233.527†	11.0	0.00019	mg/L	0.000305	0.00019	mg/L	0.000305	159.87%

QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	101.5	0.00003	mg/L	0.000021	0.00003	mg/L	0.000021 78.23%
QC value within limits for Be 313.107 Recovery = Not calculated							
Cd 228.802†	1.4	0.00011	mg/L	0.000177	0.00011	mg/L	0.000177 163.51%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 226.502†	2.1	0.00005	mg/L	0.000063	0.00005	mg/L	0.000063 127.98%
Cr 267.716†	-0.8	-0.00003	mg/L	0.000111	-0.00003	mg/L	0.000111 428.41%
Cr 205.560†	-19.2	-0.00069	mg/L	0.000427	-0.00069	mg/L	0.000427 61.84%
QC value within limits for Cr 205.560 Recovery = Not calculated							
Cu 324.752†	-3.1	-0.00003	mg/L	0.000370	-0.00003	mg/L	0.000370 >999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Mn 257.610†	-17.3	-0.00006	mg/L	0.000033	-0.00006	mg/L	0.000033 59.49%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	-3.1	-0.00013	mg/L	0.000312	-0.00013	mg/L	0.000312 233.73%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	-2.8	-0.00054	mg/L	0.001323	-0.00054	mg/L	0.001323 242.87%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	4.9	0.00435	mg/L	0.005724	0.00435	mg/L	0.005724 131.70%
Sb 206.836†	-1.8	-0.00179	mg/L	0.001380	-0.00179	mg/L	0.001380 77.09%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 203.985†	9.9	0.01328	mg/L	0.012356	0.01328	mg/L	0.012356 93.07%
Se 196.026†	-3.9	-0.00486	mg/L	0.006218	-0.00486	mg/L	0.006218 128.02%
QC value within limits for Se 196.026 Recovery = Not calculated							
Zn 206.200†	4.6	0.00017	mg/L	0.000271	0.00017	mg/L	0.000271 155.83%
QC value within limits for Zn 206.200 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 93
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/2/2014 1:08:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

ELS 7/3/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	262.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	667638.0	106.15	%	1.196				1.13%
Ag 328.068†	40.5	0.00042	mg/L	0.000421	0.00042	mg/L	0.000421	99.27%
As 188.979†	1.2	0.00178	mg/L	0.008828	0.00178	mg/L	0.008828	497.03%
As 193.696†	-0.7	-0.00083	mg/L	0.003567	-0.00083	mg/L	0.003567	427.78%
Ba 233.527†	12.8	0.00022	mg/L	0.000135	0.00022	mg/L	0.000135	60.24%
Be 313.107†	138.5	0.00004	mg/L	0.000049	0.00004	mg/L	0.000049	132.91%
Cd 228.802†	0.2	0.00002	mg/L	0.000088	0.00002	mg/L	0.000088	467.63%
Cd 226.502†	4.9	0.00011	mg/L	0.000021	0.00011	mg/L	0.000021	18.44%
Cr 267.716†	-3.0	-0.00010	mg/L	0.000139	-0.00010	mg/L	0.000139	134.09%
Cr 205.560†	-8.1	-0.00029	mg/L	0.000163	-0.00029	mg/L	0.000163	55.74%
Cu 324.752†	-17.6	-0.00015	mg/L	0.000349	-0.00015	mg/L	0.000349	238.24%
Mn 257.610†	6.8	0.00002	mg/L	0.000077	0.00002	mg/L	0.000077	351.71%
Ni 231.604†	0.4	0.00002	mg/L	0.000188	0.00002	mg/L	0.000188	986.12%
Pb 220.353†	-6.3	-0.00123	mg/L	0.002957	-0.00123	mg/L	0.002957	240.32%
Pb 217.000†	5.4	0.00478	mg/L	0.002570	0.00478	mg/L	0.002570	53.79%
Sb 206.836†	1.8	0.00180	mg/L	0.003707	0.00180	mg/L	0.003707	205.53%
Se 203.985†	3.8	0.00502	mg/L	0.014646	0.00502	mg/L	0.014646	291.84%
Se 196.026†	1.2	0.00143	mg/L	0.009276	0.00143	mg/L	0.009276	650.44%
Zn 206.200†	33.3	0.00127	mg/L	0.000146	0.00127	mg/L	0.000146	11.46%

All analyte(s) passed QC.

Sequence No.: 94
Sample ID: 1406D52-005A
Analyst: ERIC
Initial Sample Wt:

Autosampler Location: 160
Date Collected: 7/2/2014 1:09:51 PM
Data Type: Original
Initial Sample Vol:

✓ DF 7/29/2014

Analytical Report
Lab Order: **1407B98**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407B98

Lab ID: 1407B98-001
Client Sample ID: FFOR-CF-0079
Collection Date: 7/24/2014 9:30:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/29/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	5.5 ✓	1.0		wt%	1	R20214	7/28/2014 11:48:00 AM

Lab ID: 1407B98-002
Client Sample ID: FFOR-CF-0080
Collection Date: 7/24/2014 10:39:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/29/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.0 ✓	1.0		wt%	1	R20214	7/28/2014 11:48:00 AM

Lab ID: 1407B98-003
Client Sample ID: FFOR-CF-0081
Collection Date: 7/24/2014 2:57:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/29/2014 MS/MSD							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.6 ✓	1.0		wt%	1	R20214	7/28/2014 11:48:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7/28/2014 DF 7/29/2014			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 7-28-14 11:48am	Start Temp: 110C		Reviewed by: ✓ DF 7/28/2014
End time: 7-29-14 1:04pm	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
1407b98-001a			1.38	25.38	24.06		5.5000	#VALUE!
1407b98-002a			1.38	24.38	22.78		6.9565	#VALUE!
1407b98-003a			1.30	22.22	20.64		7.5526	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407b98-001a $\frac{25.38 - 24.06}{25.38 - 1.38} \times 100 = 5.5\%$

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))** cgj 7-29-14

HEAL ID #

not reporting

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407B98**
Date Reported:

dam 7/29/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407B98

Lab ID: 1407B98-001
Client Sample ID: FFOR-CF-0079

Collection Date: 07/24/14 9:30:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/29/2014							
EPA METHOD 8270C: PAHS							Analyst: **JDC**
Naphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Acenaphthylene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Acenaphthene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Fluorene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Phenanthrene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Anthracene	0.0099	0.020	J	mg/Kg	1	14448	07/28/14 12:16:26 PM
Fluoranthene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Pyrene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Chrysene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Benzo(b)fluoranthene	0.017	0.020	J	mg/Kg	1	14448	07/28/14 12:16:26 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Benzo(g,h,i)perylene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	14448	07/28/14 12:16:26 PM
Surr: N-hexadecane	55.9	27-106		%REC	1	14448	07/28/14 12:16:26 PM
Surr: Benzo(e)pyrene	66.4	34.7-131		%REC	1	14448	07/28/14 12:16:26 PM

LVL-3

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407B98

Lab ID: 1407B98-003
Client Sample ID: FFOR-CF-0081

Collection Date: 07/24/14 2:57:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/29/2014 MS/MSD							
EPA METHOD 8270C: PAHS							Analyst: JDC
Naphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
1-Methylnaphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
2-Methylnaphthalene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Acenaphthylene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Acenaphthene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Fluorene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Phenanthrene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Anthracene	0.0062	0.020	J	mg/Kg	1	14448	07/28/14 1:02:51 PM
Fluoranthene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Pyrene	0.0056	0.020	J	mg/Kg	1	14448	07/28/14 1:02:51 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Chrysene	0.0046	0.020	J	mg/Kg	1	14448	07/28/14 1:02:51 PM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Benzo(g,h,i)perylene	0.0059	0.020	J	mg/Kg	1	14448	07/28/14 1:02:51 PM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	14448	07/28/14 1:02:51 PM
Surr: N-hexadecane	46.0	27-106		%REC	1	14448	07/28/14 1:02:51 PM
Surr: Benzo(e)pyrene	60.8	34.7-131		%REC	1	14448	07/28/14 1:02:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

****

arian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

mpleList: C:\VarianWS\033114.smp

eated: Mon Mar 31 09:23:44 2014
dified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

JC 4.1.14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s

reate and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David R

QA: John Caldwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

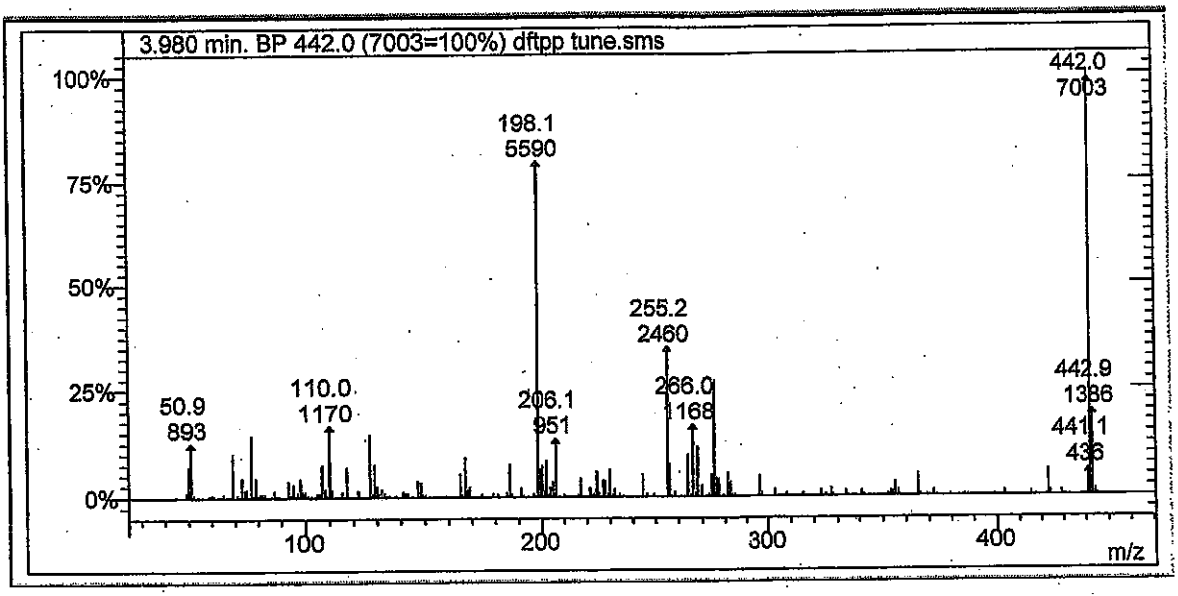
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
51	10-80% of base peak	12.8		
68	<2% of m/z 69	0.0		
69	Present	10.2		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	14.5		
197	<2% of m/z 198	0.4	(0.5)	198
198	Base peak	79.8		
199	5-9% of m/z 198	6.5	(8.2)	198
275	10-60% of base peak	26.9		
365	>1% of base peak	5.0		
441	Present and <m/z 443	6.2	(31.5)	443
442	>50% of m/z 198	100.0	(125.3)	198
443	15-24% of m/z 442	19.8		

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 II crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 II crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 II crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 II crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 II crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 II crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

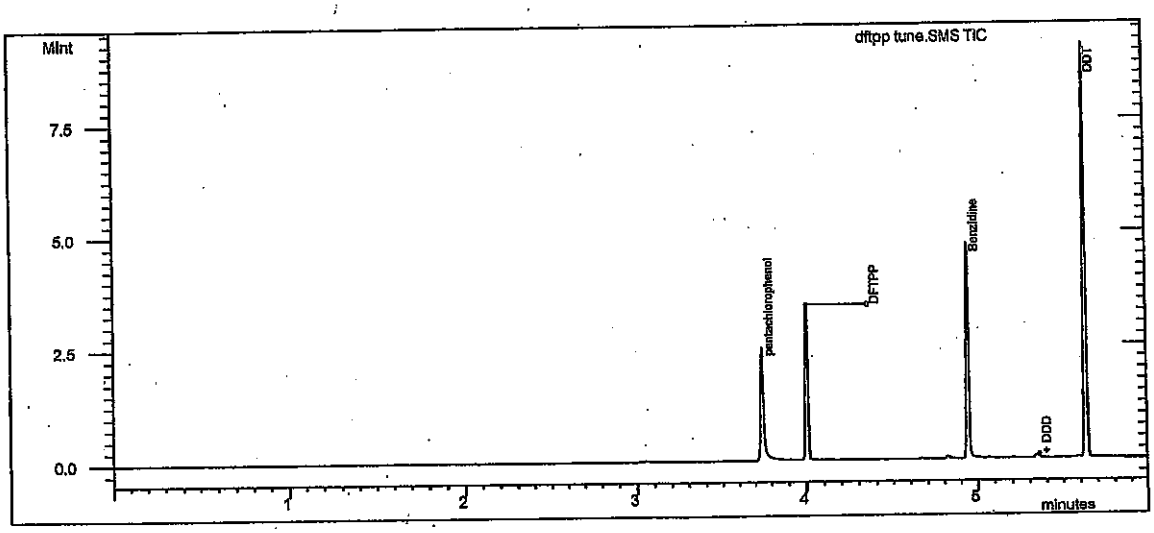
dam 4/1/14

30

4<(<(%

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT: = .944

✓ dam 4/1/14

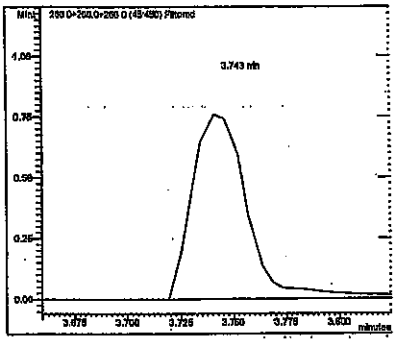
JV 4/1/14

Tailing and Gaussian Factor Report

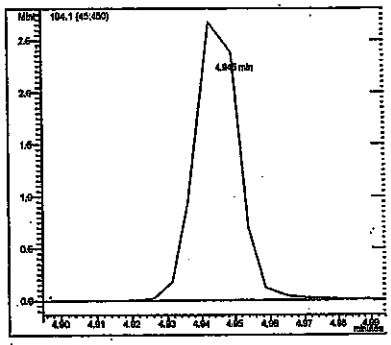
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

dam 4/1/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

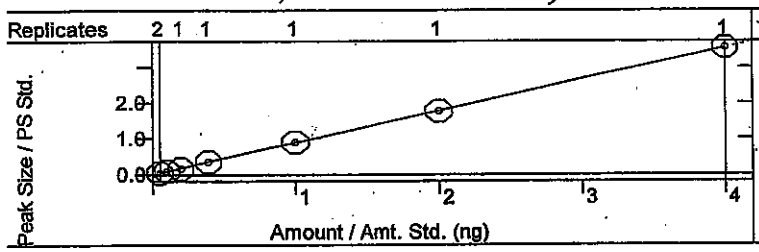
4/1/14

Calibration Curves Report

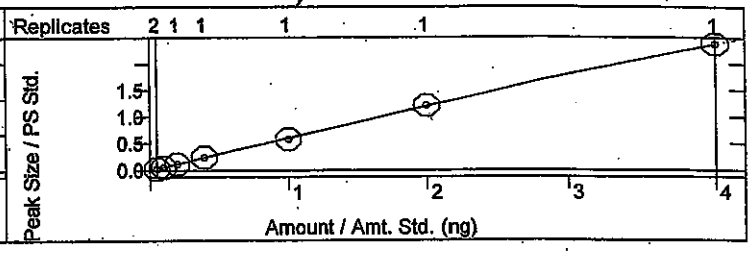
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

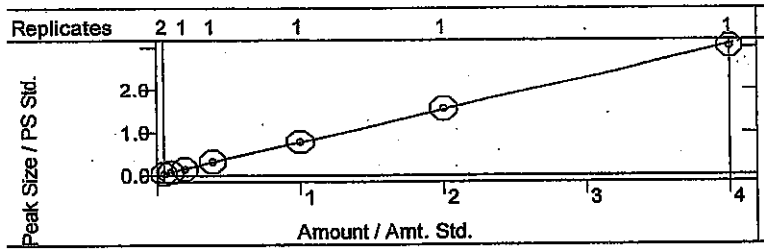
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



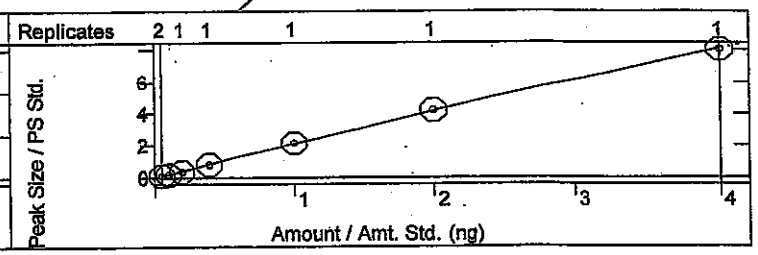
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



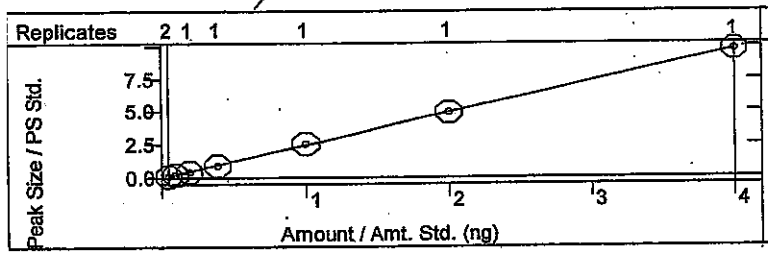
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



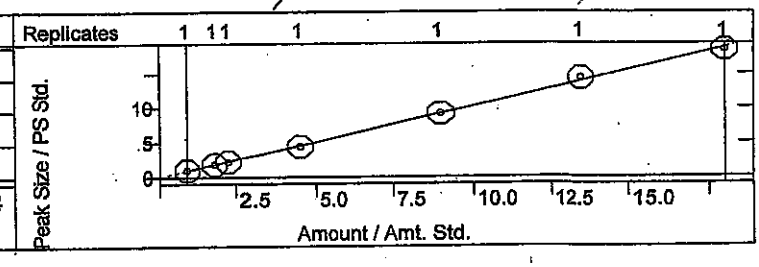
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



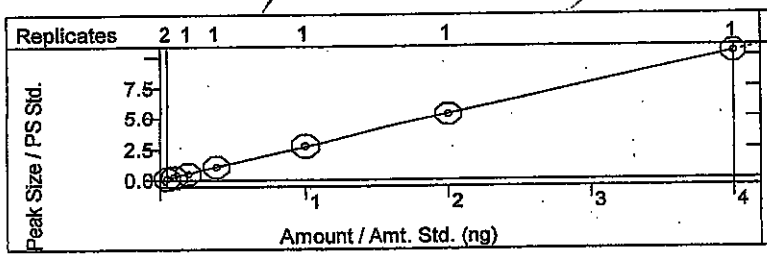
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



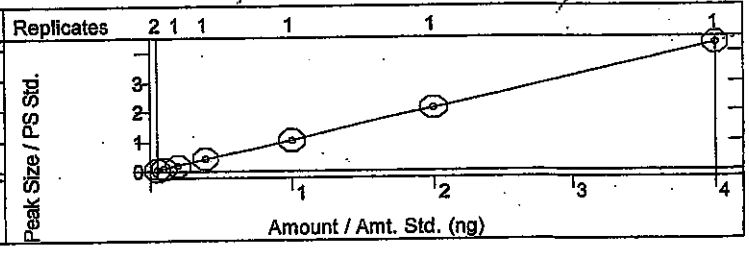
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4

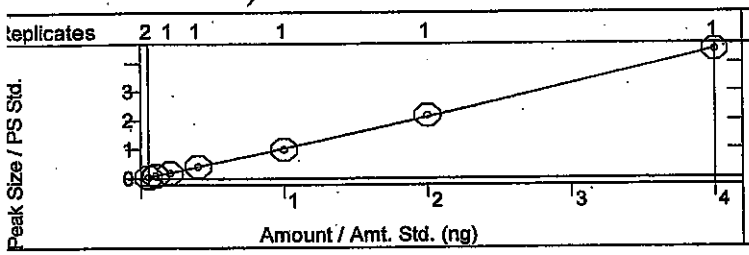


Calibration Curves Report

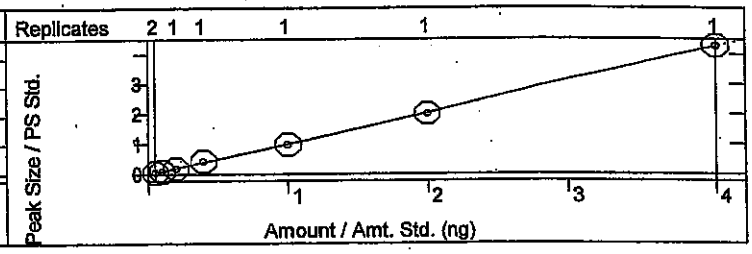
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

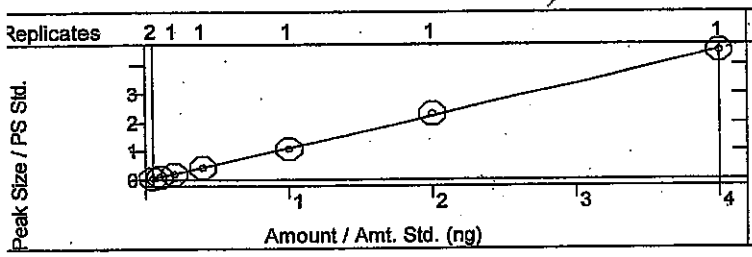
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



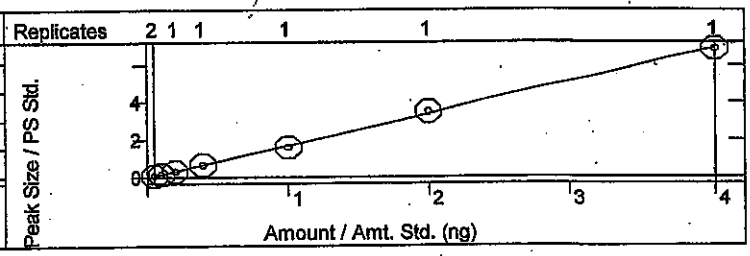
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



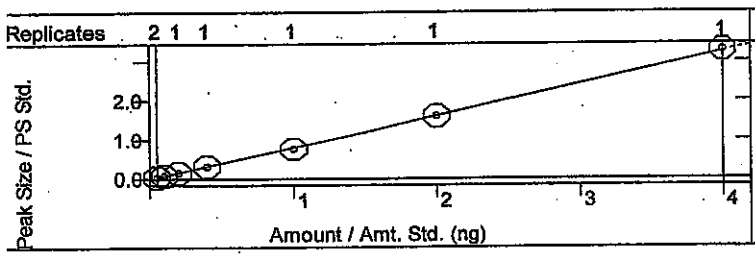
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



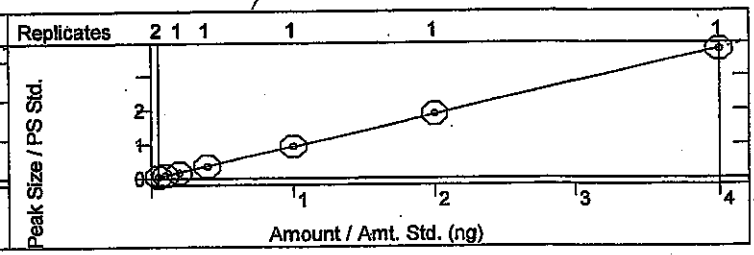
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



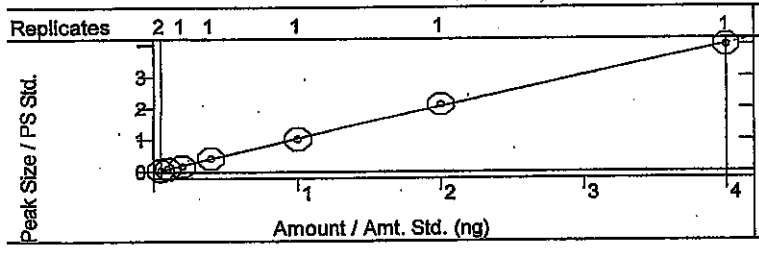
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



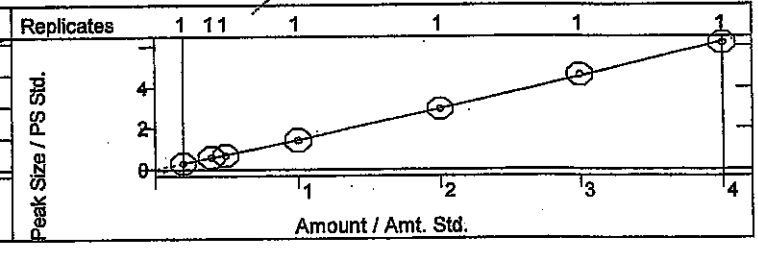
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401

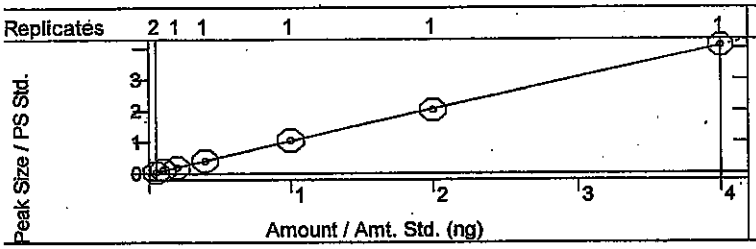


Calibration Curves Report

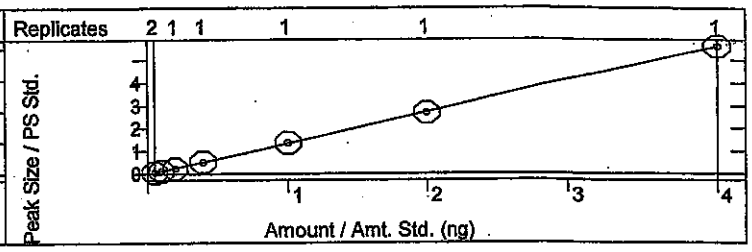
dam 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

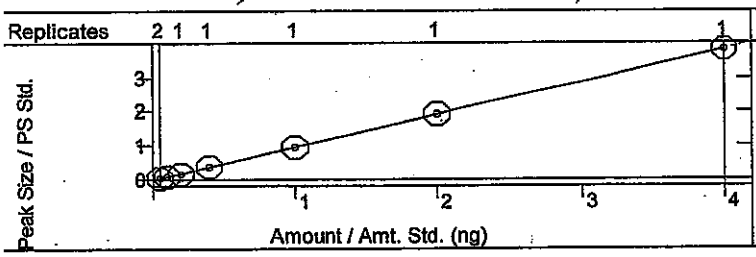
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



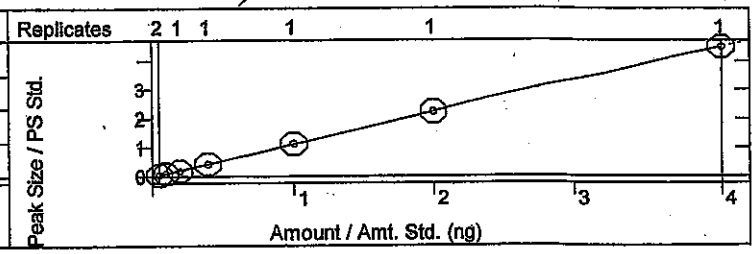
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JO 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
									Average %RSD	5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4/1/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

DC 4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

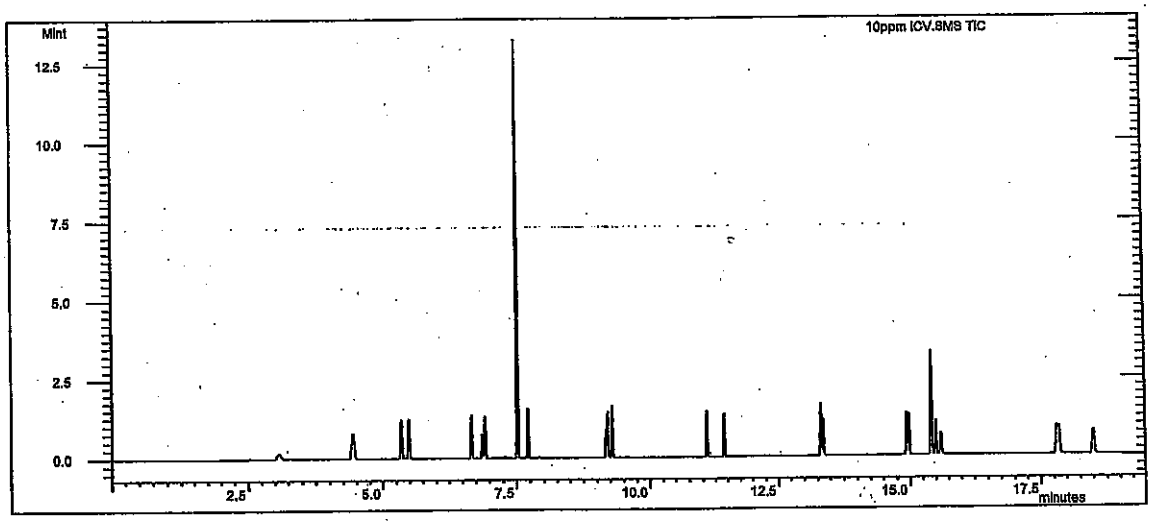
* indicates Internal Standard.

dam 4/1/14

JC 4.1.14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

****
Revision Log
****

3/31/2014 1:43 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

Varian Star Workstation - 8400 SampleList Tue Jul 29 08:29:23 2014

SampleList: C:\VarianWS\072814.smp

Created: Mon Jul 28 10:20:07 2014
Modified: Mon Jul 28 19:06:55 2014

JC 7-29-14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	80ppm	1	below	1	1.0
	Notes sv110-0595				
3	10ppm LL	1	below	2	1.0
	Notes sv110-0562				
4	mb-14448	1	below	3	1.0
	Notes LL-soil				
5	lcs-14448	1	below	4	1.0
	Notes LL-soil				
6	1407B98-001A	1	below	5	1.0
	Notes x1 LL-soil				
7	H.L. 1407B98-002A	1	below	6	1.0
	Notes x1 LL-soil				
8	1407B98-003A	1	below	7	1.0
	Notes x1 LL-soil				
9	1407B98-003Ams	1	below	8	1.0
	Notes x1 LL-soil				
10	1407B98-003Amsd	1	below	9	1.0
	Notes x1 LL-soil				
11					
12	mb-14447	1	below	10	1.0
	Notes soil				
13	lcs-14447	1	below	11	1.0
	Notes soil				
14	1407B35-001A	1	below	12	1.0
	Notes x1 soil				
15	1407C55-001A	1	below	13	1.0
	Notes x1 soil, fv=2ml				
16	1407C55-001Ams	1	below	14	1.0
	Notes x1 soil, fv=2ml				
17	1407C55-001Amsd	1	below	15	1.0
	Notes x1 soil, fv=2ml				
18	1407C55-002A	1	below	16	1.0
	Notes x1 soil, fv=2ml				
19	1407C55-003A	1	below	17	1.0
	Notes x1 soil, fv=2ml				
20	1407C55-004A	1	below	18	1.0
	Notes x1 soil				
21	1407C55-005A	1	below	19	1.0
	Notes x1 soil				
22	1407C55-006A	1	below	20	1.0
	Notes x1 soil				

lam 7/29/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\072814.rcl.

Hall Environmental Analysis Laboratory

Time Started: 3:00
Time Ended: 8:00

PREP BATCH REPORT

Reviewed By: dam 7/28/14

Page 1 of 1

Prep Start Date: 07/27/14 2:58:30 P **Extraction Method 3540**
Prep End Date:

Prep Batch ID: **14448** Prep Code: **8270_S_PRSI** Method No: **8270C** Technician: **John Caldwell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14448		Solid			30	0	0	1	0.033	07/27/14	
LCS-14448		Solid			30	0	0	1	0.033	07/27/14	
1407B98-001A	FFOR-CF-0079	Soil			30.18	0	0	1	0.033	07/27/14	
1407B98-002A	FFOR-CF-0080	Soil			30.13	0	0	1	0.033	07/27/14	
1407B98-003A	FFOR-CF-0081	Soil			30.50	0	0	1	0.033	07/27/14	
1407B98-003AMS		Soil			30.64	0	0	1	0.033	07/27/14	
1407B98-003AMSD		Soil			30.41	0	0	1	0.033	07/27/14	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14025	LL PAH IS	ALL	25646	Container-01 of 01	20	µL
ST8270-14030	100ppm PAH LCS	LCS	26023	Container-01 of 01	100	µL
ST8310-14004	100ppm B(e)p, 450ppm N-Hex	ALL	25595	Container-01 of 01	100	µL

8270C
LL-PAH
Calibration Summary

Instrument: ELMO Date: 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

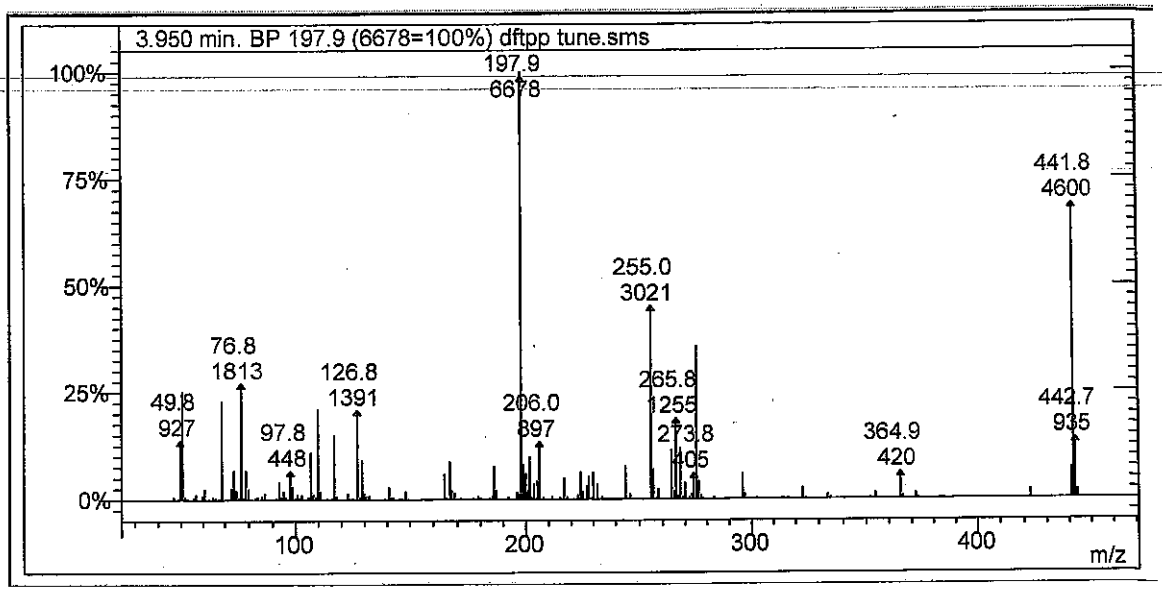
Analyst: David

QA: Jessa Calderwood

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: JM and m.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/28/2014

Injection Time: 10:25

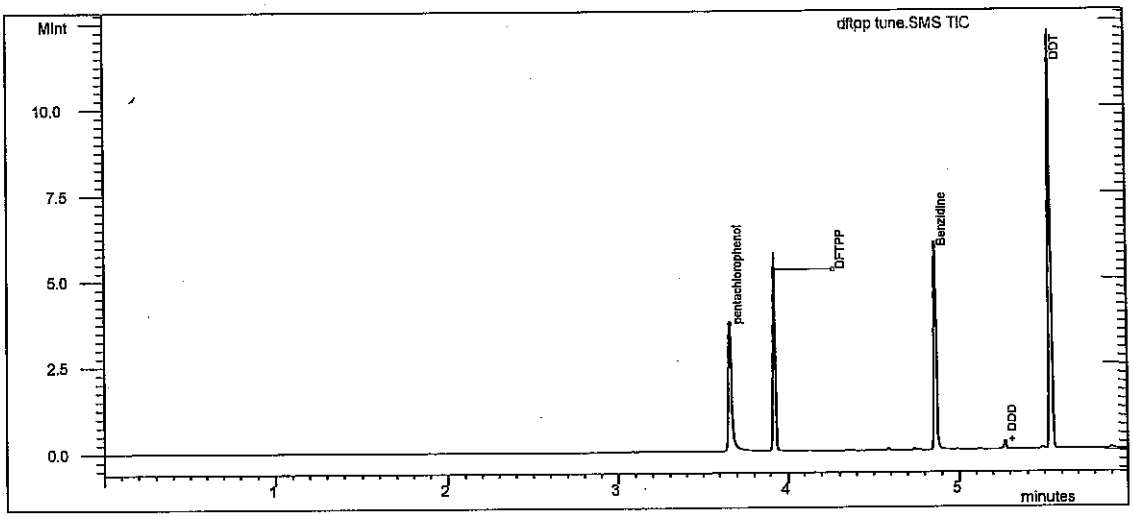
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	25.19	PASS
68	<2% of m/z 69	0.98	PASS
69	Present	22.94	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	20.83	PASS
197	<2% of m/z 198	1.21	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.06	PASS
275	10-60% of base peak	35.71	PASS
365	>1% of base peak	6.29	PASS
441	Present and <m/z 443	50.27	PASS
442	>50% of m/z 198	68.88	PASS
443	15-24% of m/z 442	20.33	PASS

TC 7.28.14

Adam 7/29/14

Degradation Report

Acquisition Date:	7/28/2014 10:25:39 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.540	3.020E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.272	55446	5
DDE	4.989	1776	6

% Degradation of DDT : = 1.859

JC 7.28.14

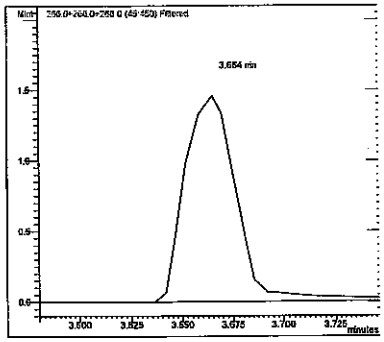
Adam 7/29/14

Tailing and Gaussian Factor Report

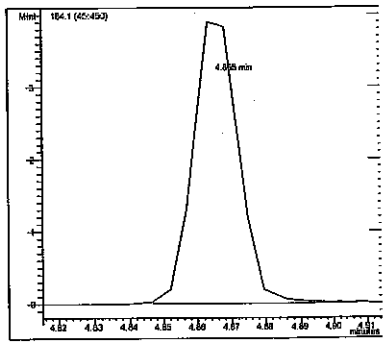
Acquisition Date: 7/28/2014 10:25:39 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.664 Area = 2.614E6



Benzidine
RT = 4.865 Area = 3.666E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.664	1.135	0.885
Benzidine	4.865	1.463	1.030

#	Compound Name	RT	Area
1	pentachlorophenol	3.664	2.614E6
3	Benzidine	4.865	3.666E6

JV 7-29-14

Jam 7/29/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\072814\80ppm.SMS Lab Sample ID: 80ppm

Instrument ID: ELMO Date Analyzed: 7/28/2014 Time Analyzed: 10:38

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	153542	5.18	490847	6.90	222900	9.50	431790	11.75	448442	15.77	569015	17.92
UPPER LIMIT	307084	5.68	981694	7.40	445800	10.00	863580	12.25	896884	16.27	1.138E6	18.42
LOWER LIMIT	76771	4.68	245424	6.40	111450	9.00	215895	11.25	224221	15.27	284508	17.42
EPA SAMPLE NO												
mb-14447	109040	5.18	369160	6.91	164472	9.51	279355	11.75	326875	15.77	400247	17.93
lcs-14447	107040	5.18	349678	6.90	157281	9.50	283034	11.75	318245	15.77	372906	17.92
1407B35-00	102174	5.18	343592	6.91	147007	9.50	250634	11.75	288199	15.77	351703	17.93
1407C55-00	110529	5.18	365504	6.91	155952	9.51	288221	11.75	328829	15.77	404772	17.93
1407C55-00	109679	5.18	342706	6.90	153332	9.50	285781	11.75	320670	15.77	393693	17.92
1407C55-00	111299	5.18	355385	6.91	155337	9.50	287914	11.75	327456	15.77	420150	17.93
1407C55-00	88172	5.19	302654	6.91	136075	9.51	254652	11.75	287832	15.77	339112	17.93
1407C55-00	90019	5.18	316367	6.91	146055	9.50	263790	11.75	302862	15.77	373398	17.92
1407C55-00	91305	5.18	305934	6.90	142131	9.50	251369	11.75	275740	15.77	347404	17.92
1407C55-00	96010	5.18	318472	6.90	146939	9.50	253514	11.75	283538	15.77	347167	17.92
1407C55-00	83118	5.18	291477	6.90	137382	9.50	261664	11.75	304488	15.76	375867	17.92

~~7.28.14~~ 7.29.14

dam 7/29/14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll.sms **Acquisition Date:** 7/28/2014 11:06

Comment: sv110-0562

SampleID: 10ppm LL **Analyst:** John D Caldwell

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.58	ng	10.00	96 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.33	ng	10.00	93 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.64		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	9.65	ng	10.00	97 %	80 - 120	PASS
8)	Acenaphthene	9.42	ng	10.00	94 %	80 - 120	PASS
9)	n-hexadecane	67.72		67.50	100 %	80 - 120	PASS
10)	Fluorene	9.80	ng	10.00	98 %	80 - 120	PASS
12)	Phenanthrene	9.23	ng	10.00	92 %	80 - 120	PASS
13)	Anthracene	9.39	ng	10.00	94 %	80 - 120	PASS
14)	Fluoranthene	10.17	ng	10.00	102 %	80 - 120	PASS
15)	Pyrene	9.88	ng	10.00	99 %	80 - 120	PASS
16)	Benz[a]anthracene	9.87	ng	10.00	99 %	80 - 120	PASS
18)	Chrysene	10.22	ng	10.00	102 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.99	ng	10.00	100 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.94	ng	10.00	99 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.62		15.00	104 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.83	ng	10.00	98 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.41	ng	10.00	94 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.02	ng	10.00	100 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.71	ng	10.00	97 %	80 - 120	PASS

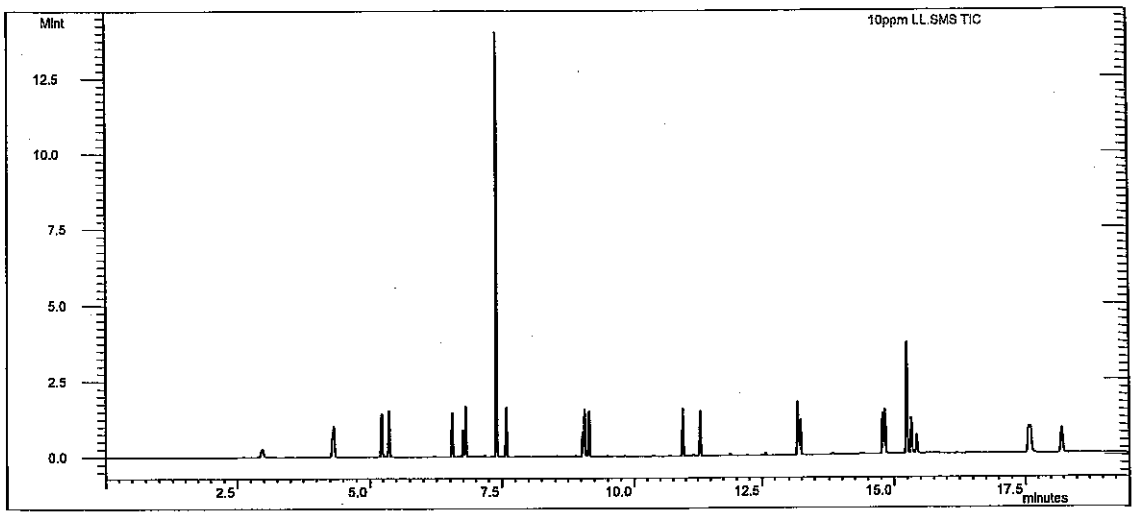
* indicates Internal Standard.

JV 7.28.14

dam 7/29/14

8270C Report

Sample Name:	10ppm LL	**Operator Name:**	John D Caldwell	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0562	**Acquisition Date:**	7/28/2014 11:06:52 AM
Calculation Date:	7/28/2014 11:26:22 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	2.970	199	Identified	148651	5.000
Naphthalene-d8 (I.S)	4.296	334	Identified	522329	5.000
Acenaphthene-d10 (I.S)	6.753	586	Identified	242650	5.000
Phenanthrene-d10	9.042	820	Identified	468867	5.000
Chrysene-d12 I.S	13.187	1241	Identified	447051	5.000
Perylene-d12 I.S	15.424	1474	Identified	637540	5.000
Naphthalene	4.322	337	Identified	890595	9.575
2-Methylnaphthalene	5.226	430	Identified	581901	9.333
1-Methylnaphthalene	5.368	444	Identified	773239	9.639
Acenaphthylene	6.545	565	Identified	971932	9.651
Acenaphthene	6.805	591	Identified	1.122E6	9.423
n-hexadecane	7.395	651	Identified	3.386E6	67.725
Fluorene	7.587	671	Identified	1.268E6	9.796
Phenanthrene	9.077	823	Identified	916812	9.231
Anthracene	9.157	832	Identified	927863	9.386
Fluoranthene	10.943	1013	Identified	967667	10.168
Pyrene	11.299	1050	Identified	986362	9.880
Benz[a]anthracene	13.171	1240	Identified	1.499E6	9.874
Chrysene	13.227	1246	Identified	737255	10.219
Benzo(b)fluoranthene	14.781	1408	Identified	1.191E6	9.993
Benzo[k]fluoranthene	14.823	1412	Identified	1.311E6	9.936
Benzo(e)pyrene	15.242	1455	Identified	3.011E6	15.621
Benzo[a]pyrene	15.327	1464	Identified	1.294E6	9.833
Indeno[1,2,3-cd]pyrene	17.567	1693	Identified	1.631E6	9.410

JV 7.28.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.602	1697	Identified	1.220E6	10.019
Benzo[g,h,i]perylene	18.221	1760	Identified	1.383E6	9.706

****
Revision Log
****

7/28/2014 11:26 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

✓ DF 7/28/2014

Analytical Report
Lab Order: **1407C55**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-001 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0032 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	14 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Lab ID: 1407C55-002 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0033 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	15 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Lab ID: 1407C55-003 **Collection Date:** 7/25/2014 9:20:00 AM
Client Sample ID: FF04-CF-0034 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	15 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Lab ID: 1407C55-004 **Collection Date:** 7/25/2014 9:28:00 AM
Client Sample ID: FFOR-CF-0035 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	16 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Lab ID: 1407C55-005 **Collection Date:** 7/25/2014 9:37:00 AM
Client Sample ID: FFOR-CF-0036 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	14 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407C55**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-006
Client Sample ID: FFFOR-CF-0037
Collection Date: 7/25/2014 3:30:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	15 ✓	1.0		wt%	1	R20172	7/25/2014 5:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7-25-14		Thermometer ID: P-MOIST THERM-4	
Oven Name: Hephaestus	Analyst: cg, KJH	Thermometer Exp Date: 7/17/2015	
Start time: 7-25-14 5:35pm	Start Temp: 110C	Reviewed by: ✓ DF 7/28/2014	
End time: 7-28-14 8:35am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1407c55-001a	31.8	39.84				8.0070		#VALUE!
1407c55-002	31.9	39.70				7.8170		#VALUE!
1407c55-003a	31.9	41.51				9.6100		#VALUE!
1407c55-004a	31.9	41.22				9.2860		#VALUE!
1407c55-005a	31.8	42.46				10.7030		#VALUE!
1407c55-006a	31.9	41.64				9.7020		#VALUE!
MeOH Kit								#VALUE!
1407c55-001a	26.0	42.33	1.00	2.00	2.00	16.3300	0.0000	0.6124
1407c55-002a	26.0	41.53	1.00	2.00	2.00	15.5300	0.0000	0.6439
1407c55-003a	26.0	44.09	1.00	2.00	2.00	18.0900	0.0000	0.5528
1407c55-004a	26.0	44.68	1.00	2.00	2.00	18.6800	0.0000	0.5353
1407c55-005a	26.0	45.30	1.00	2.00	2.00	19.3000	0.0000	0.5181
1407c55-006a	25.8	45.35	1.00	2.00	2.00	19.5500	0.0000	0.5115
Pmoist								#VALUE!
1407c55-001a			1.31	35.82	30.93		14.1698	#VALUE!
1407c55-002a			1.34	22.34	19.25		14.7143	#VALUE!
1407c55-003a			1.35	29.46	25.20		15.1547	#VALUE!
1407c55-004a			1.34	26.60	22.54		16.0728	#VALUE!
1407c55-005a			1.35	23.77	20.58		14.2284	#VALUE!
1407c55-006a			1.35	22.71	19.48		15.1217	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID # 1407c55-001a

$$\frac{35.82 - 30.93}{35.82 - 1.31} \times 100 = 14.1698$$

cg 7.28.14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID # 1407c55-001a

$$\frac{10g}{16.33g} = 0.6124$$

cg 7.28.14

Hall Environmental Analysis Laboratory

DF 7/29/2014

PREP BATCH REPORT

Prep Start Date: **7/25/2014 3:37:58 P**
Prep End Date: **7/25/2014 5:00:00 P**

Prep Factor Units: **mL / g**

Prep Batch ID: **14444** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

cg 7-28-14

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14444		Solid			5	0	0	5	1.000	7/25/2014	7/25/2014
LCS-14444		Solid			5	0	0	5	1.000	7/25/2014	7/25/2014
1407C55-001A	FFOR-CF-0032	Soil			8.007	0	0	5	0.624	7/25/2014	7/25/2014
1407C55-001AMS	LL 8260	Soil			7.94	0	0	5	0.630	7/25/2014	7/25/2014
1407C55-001AMSD	LL 8260	Soil			8.07	0	0	5	0.620	7/25/2014	7/25/2014
1407C55-002A	FFOR-CF-0033	Soil			7.817	0	0	5	0.640	7/25/2014	7/25/2014
1407C55-003A	FF04-CF-0034	Soil			9.61	0	0	5	0.520	7/25/2014	7/25/2014
1407C55-004A	FFOR-CF-0035	Soil			9.286	0	0	5	0.538	7/25/2014	7/25/2014
1407C55-005A	FFOR-CF-0036	Soil			10.703	0	0	5	0.467	7/25/2014	7/25/2014
1407C55-006A	FFFOR-CF-0037	Soil			9.702	0	0	5	0.515	7/25/2014	7/25/2014

LL 8260

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8032	8260-5035 Low LCS	lcs/ms/msd	25970	Container-01 of 01	4	µL

Y JZ 7/30/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407C55**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-001 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0032 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14454	7/29/2014 10:28:38 AM
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dry	1	14454	7/29/2014 10:28:38 AM
Surr: DNOP	98.2	57.9-140		%REC	1	14454	7/29/2014 10:28:38 AM

Lab ID: 1407C55-002 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0033 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14454	7/29/2014 10:58:56 AM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14454	7/29/2014 10:58:56 AM
Surr: DNOP	92.4	57.9-140		%REC	1	14454	7/29/2014 10:58:56 AM

Lab ID: 1407C55-003 **Collection Date:** 7/25/2014 9:20:00 AM
Client Sample ID: FFOR-CF-0034 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14454	7/29/2014 11:29:14 AM
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dry	1	14454	7/29/2014 11:29:14 AM
Surr: DNOP	97.2	57.9-140		%REC	1	14454	7/29/2014 11:29:14 AM

Lab ID: 1407C55-004 **Collection Date:** 7/25/2014 9:28:00 AM
Client Sample ID: FFOR-CF-0035 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14454	7/29/2014 11:59:39 AM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14454	7/29/2014 11:59:39 AM
Surr: DNOP	95.7	57.9-140		%REC	1	14454	7/29/2014 11:59:39 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-005
Collection Date: 7/25/2014 9:37:00 AM
Client Sample ID: FFOR-CF-0036
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14454	7/29/2014 12:30:12 PM
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dry	1	14454	7/29/2014 12:30:12 PM
Surr: DNOP	95.8	57.9-140		%REC	1	14454	7/29/2014 12:30:12 PM

Lab ID: 1407C55-006
Collection Date: 7/25/2014 3:30:00 PM
Client Sample ID: FFOR-CF-0037
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14454	7/29/2014 1:00:25 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14454	7/29/2014 1:00:25 PM
Surr: DNOP	102	57.9-140		%REC	1	14454	7/29/2014 1:00:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14454		Soil	BN 7.28.14		10	0	0	10	1.000	7/28/2014	BN 7.28.14
LCS-14454		Soil			10 9.91	0	0	10	1.000	7/28/2014	
1407C46-001A	B1 (4-5)	Soil			10 9.99	0	0	10	1.000	7/28/2014	
1407C46-001AMS		Soil			10 9.71	0	0	10	1.000	7/28/2014	
1407C46-001AMSD		Soil			10 10.09	0	0	10	1.000	7/28/2014	
1407C46-002A	B2 (3.5-4.5)	Soil			10 10.19	0	0	10	1.000	7/28/2014	
1407C52-001A	NE-0B-2'	Soil			10 10.12	0	0	10	1.000	7/28/2014	
1407C52-002A	Far South #3 12'	Soil			10 10.00	0	0	10	1.000	7/28/2014	
1407C52-003A	Far South #3 14'	Soil			10 10.08	0	0	10	1.000	7/28/2014	
1407C52-004A	DP-40'	Soil			10 10.01	0	0	10	1.000	7/28/2014	
1407C52-005A	DP-36'	Soil			10 10.18	0	0	10	1.000	7/28/2014	
1407C52-006A	DP-WW-35'	Soil			10 9.98	0	0	10	1.000	7/28/2014	
1407C52-007A	DP-45'	Soil			10 9.93	0	0	10	1.000	7/28/2014	
1407C55-001A	FFOR-CF-0032	Soil			10 9.98	0	0	10	1.000	7/28/2014	
1407C55-002A	FFOR-CF-0033	Soil			10 9.95	0	0	10	1.000	7/28/2014	
1407C55-003A	FF04-CF-0034	Soil			10 10.16	0	0	10	1.000	7/28/2014	
1407C55-004A	FFOR-CF-0035	Soil			10 10.15	0	0	10	1.000	7/28/2014	
1407C55-005A	FFOR-CF-0036	Soil			10 10.19	0	0	10	1.000	7/28/2014	
1407C55-006A	FFFOR-CF-0037	Soil			10 9.96	0	0	10	1.000	7/28/2014	
1407C56-001A	95 BGT 5-pt @ 5'	MeOH (Soil)			10 10.02	0	0	10	1.000	7/28/2014	
1407C57-001A	95 BGT 5-pt @ 4.5'	MeOH (Soil)			10 9.97	0	0	10	1.000	7/28/2014	
1407C59-001A	5PC - TB @ 3' (21)	MeOH (Soil)			10 9.93	0	0	10	1.000	7/28/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand BN 7.28.14	14066	Container-01 of 01	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Amount Unit
mL
µL
µL

Sequence Print

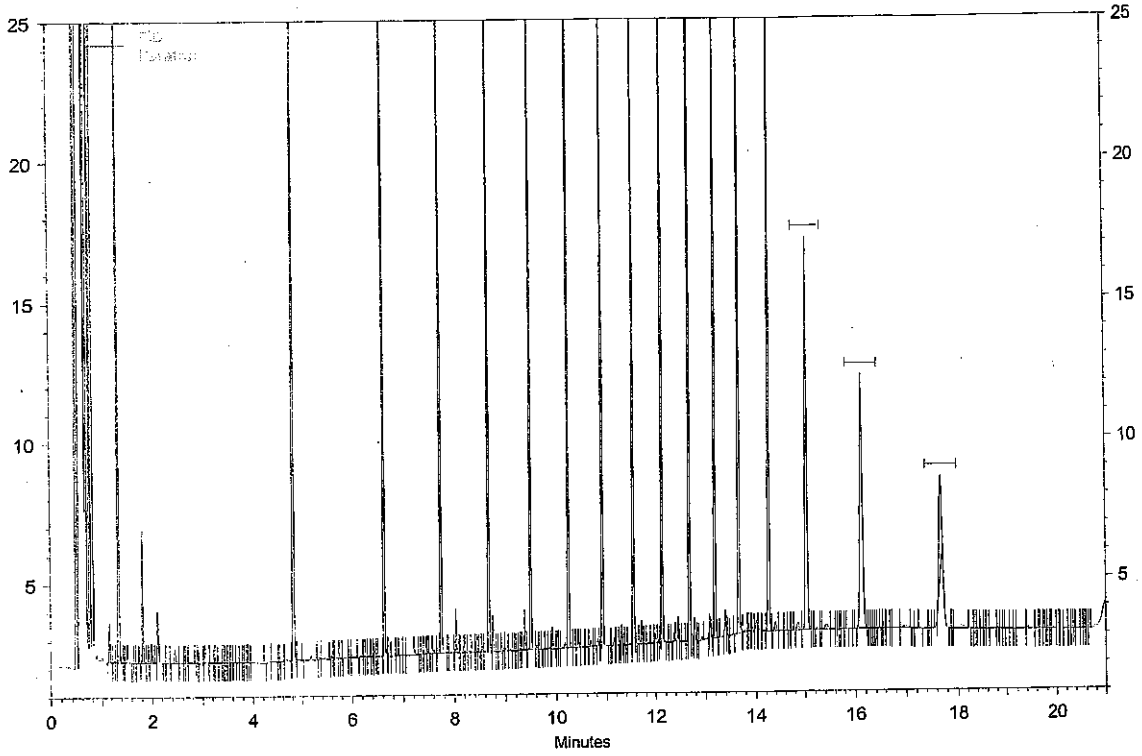
BN 7.29.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1407C55-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-001A <D>.dat	1
6	Unknown	0	1	1407C55-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-002A <D>.dat	1
7	Unknown	0	1	1407C55-003A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-003A <D>.dat	1
8	Unknown	0	1	1407C55-004A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-004A <D>.dat	1
9	Unknown	0	1	1407C55-005A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-005A <D>.dat	1
10	Unknown	0	1	1407C55-006A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C55-006A <D>.dat	1
11	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
12	Unknown	0	1	1407C46-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C46-001A <D>.dat	1
13	Unknown	0	1	1407C46-001AMS	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C46-001AMS <D>.dat	1
14	Unknown	0	1	1407C46-001AMSD	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C46-001AMSD <D>.dat	1
15	Unknown	0	1	1407C46-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C46-002A <D>.dat	1
16	Unknown	0	1	1407B28-005A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407C28-005A <D>.dat	1
17	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

7/30/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1508**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072914\Paraffin 07-29-14 8-44-29 AM.dat
Aquired: 7/29/2014 8:53:54 AM



FID Results

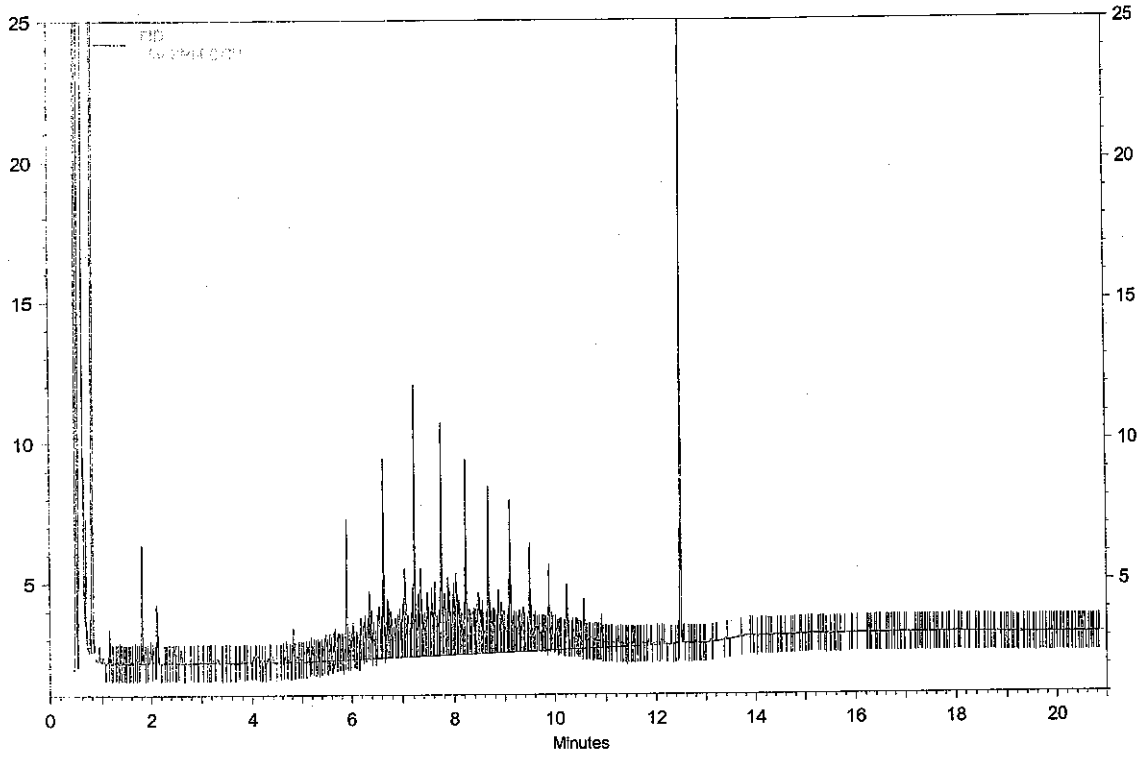
Name	Retention Time	Area	ug/ml
C08	1.35	52565	0.000
C10	4.82	62376	0.000
C12	6.63	61010	0.000
C14	7.74	60337	0.000
C16	8.67	59875	0.000
C18	9.49	59175	0.000
C20	10.23	59759	0.000
C22	10.92	58129	0.000
C24	11.55	58221	0.000
C26	12.13	60238	0.000
C28	12.67	61456	0.000
C30	13.18	59933	0.000
C32	13.66	53248	0.000
C34	14.25	41499	0.000
C36	15.03	34662	0.000
C38	16.12	31168	0.000
C40	17.68	11348	0.000

Analyst BW

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-29-14 9-15-07 AM.dat
Aquired: 7/29/2014 9:24:20 AM



FID Results

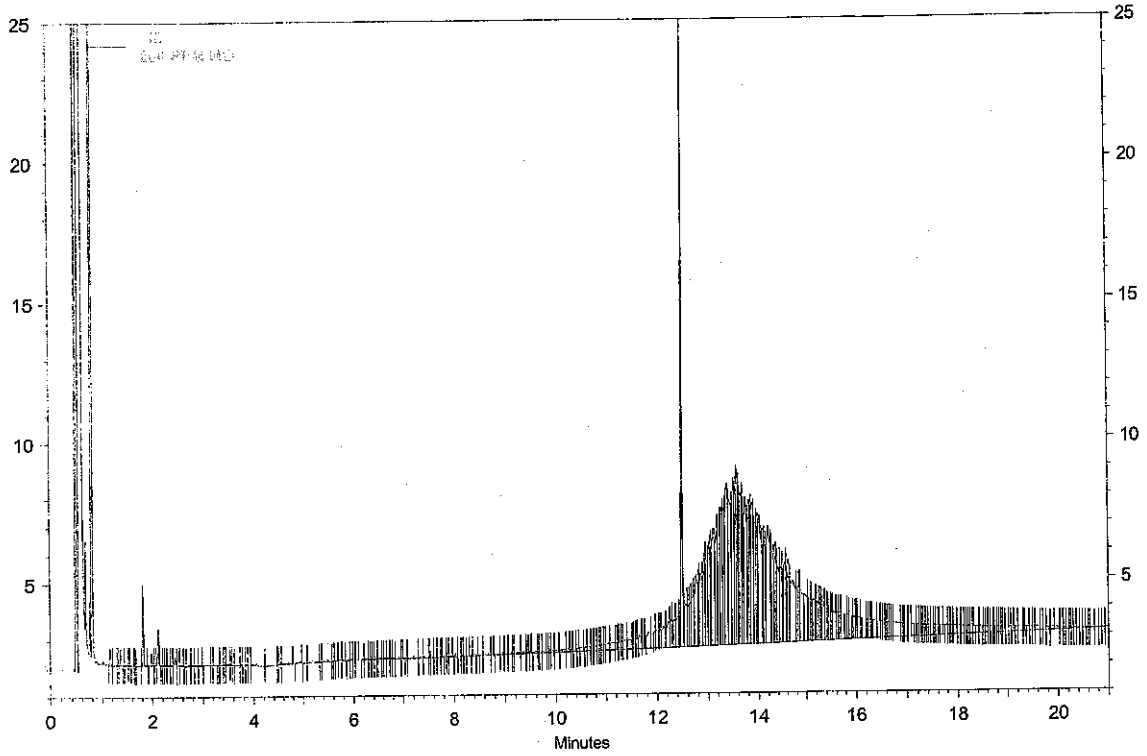
Name	Retention Time	Area	ug/ml
DNOP	12.48	24848	9.480
DRO		328501	92.463
MRO		3163	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-29-14 9-45-38 AM.dat
Aquired: 7/29/2014 9:54:49 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	29018	11.044
DRO		40852	12.744
MRO		525553	188.224

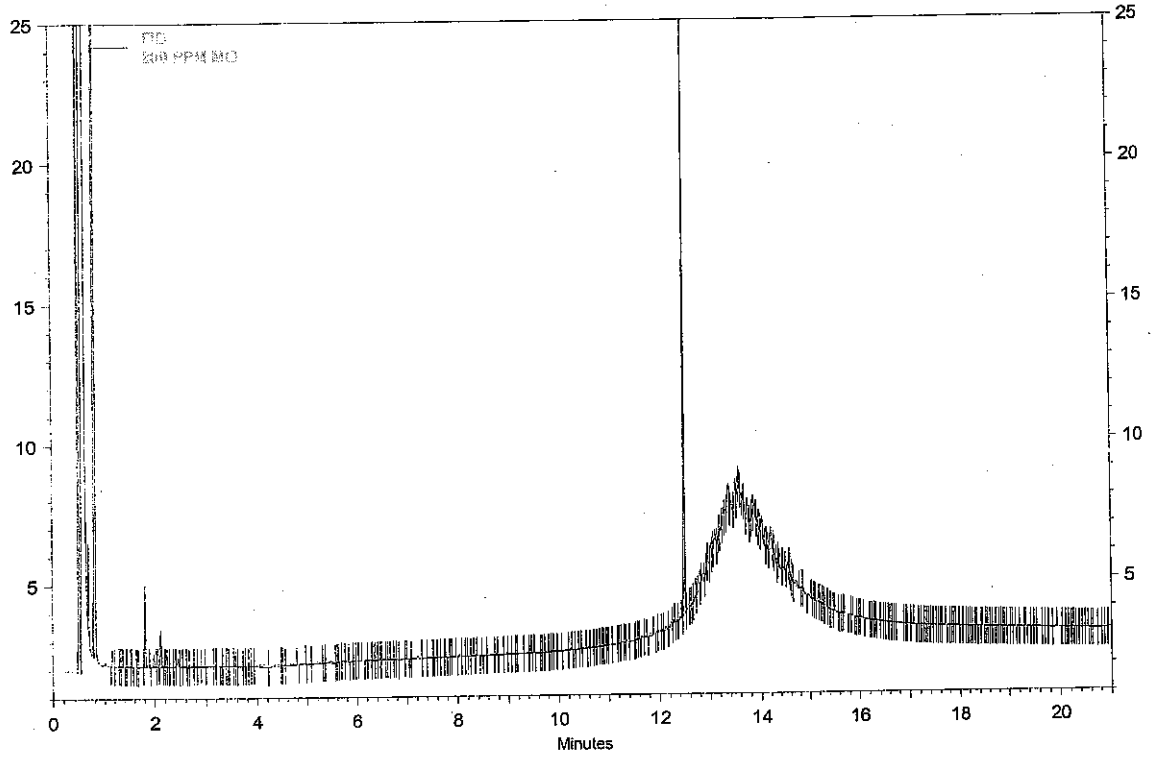
Analyst BN

Reviewed By

11.044
-9.289
1.755
+188.224
189.979
200 X100
= 94.989% ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-29-14 9-45-38 AM.dat
Aquired: 7/29/2014 9:54:49 AM



FID Results

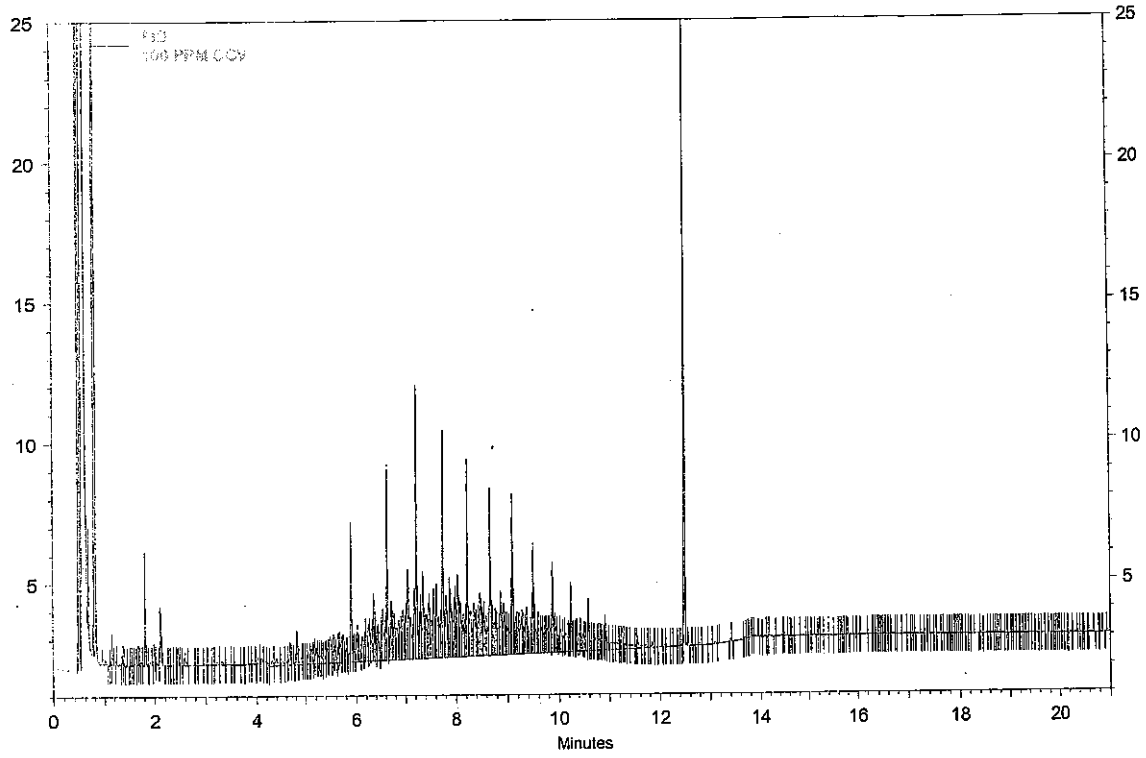
Name	Retention Time	Area	ug/ml
DNOP	12.48	24340	9.289
DRO		5943	3.165
MRO		22527	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-29-14 1-21-33 PM.dat
Aquired: 7/29/2014 1:31:17 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	25545	9.741
DRO		339198	95.454
MRO		3293	0.000

Analyst BW

Reviewed By

Calibration Summary

Date: 7.23.14

Instrument: FID #2

Method: 8015D

Calibration Name: DRO FID#2 072314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: [signature]

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

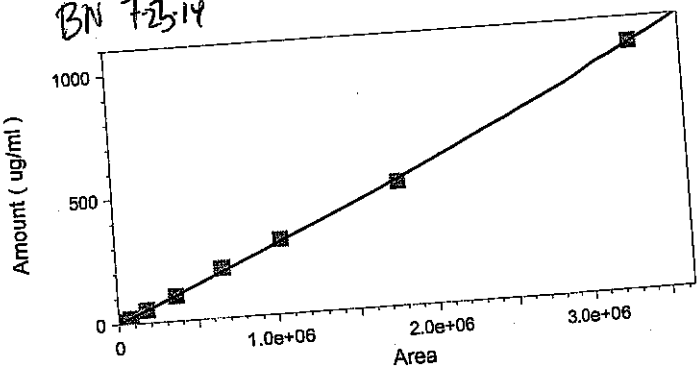
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000274651 RF StDev: 2.91501e-005 RF %RSD: 10.6135
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.41606e-012x^2 + 0.000274030x + 1.53570
Goodness of fit (r^2): 0.999483

√ 7/24/14

BN 7-25-14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	19249	37000	77990	176595	362975
RF	0.000207803 00275339	0.00027027027 027027	0.000256443133 735094	0.000283133724 057873	0.0002755010 67566637
Last Area Residual	-2.81362	-1.68632	-2.95847	-0.190445	-2.11047
Rep StDev					
Rep %RSD					
Rep 1 Area	19249	37000	77990	176595	362975
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 9:33:09 AM	7/24/2014 9:33:49 AM	7/24/2014 9:34:17 AM	7/24/2014 9:34:37 AM	7/24/2014 9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	661154	1031177	1771808	3299464
RF	0.000302501	0.00029092968	0.000282197619	0.000303079530
	383943832	5204383	606639	493438
Last Area				
Residual	13.6096	6.94213	-13.4843	2.69196
Rep StDev				
Rep %RSD				
Rep 1 Area	661154	1031177	1771808	3299464
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

Calibration Report

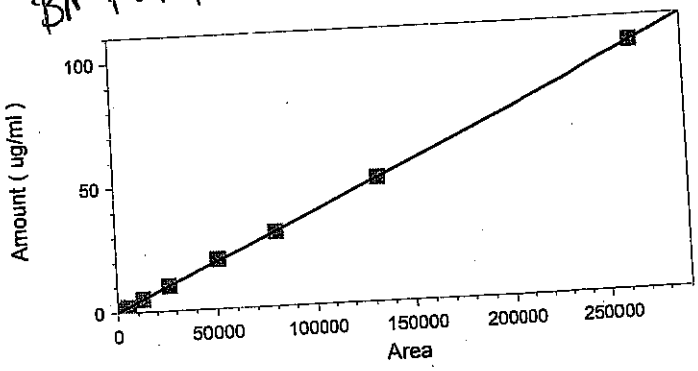
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000445118 RF StDev: 0.000187053 RF %RSD: 42.0233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.56822e-011x^2 + 0.000374300x + 0.169423
Goodness of fit (r^2): 0.999927

1 7/24/14

BR 7-24-14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	424	2502	5305	12896	26592
RF	0.000943396	0.00039968025	0.000377002827	0.000387717121	0.0003760529
Last Area	226415094	5795364	521206	588089	48255114
Residual	0.0718708	-0.10602	-0.155527	0.000994814	-0.133901
Rep StDev					
Rep %RSD					
Rep 1 Area	424	2502	5305	12896	26592
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 9:33:09 AM	7/24/2014 9:33:49 AM	7/24/2014 9:34:17 AM	7/24/2014 9:34:37 AM	7/24/2014 9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	51020	80114	132795	263699
RF	0.000392003	0.00037446638	0.000376520200	0.000379220247
	136025088	5400804	308747	327445
Last Area				
Residual	0.692965	-0.256753	-0.151152	0.0375213
Rep StDev				
Rep %RSD				
Rep 1 Area	51020	80114	132795	263699
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

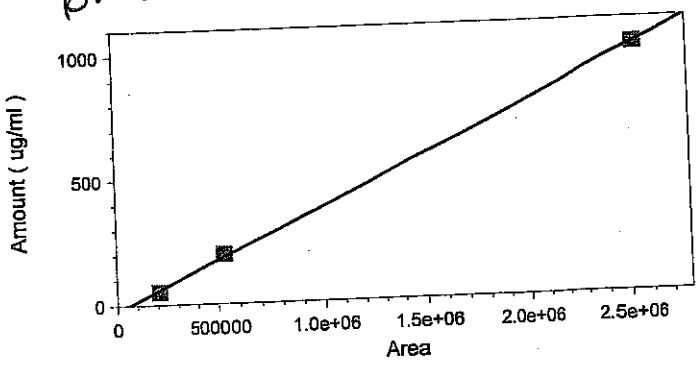
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:44 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000338253 RF StDev: 8.46905e-005 RF %RSD: 25.0376
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000405653x - 24.9682
Goodness of fit (r^2): 0.999614

BN 7-23-14 Group: MRO – ESTD – FID

7/24/14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	207529	528224	2530354
RF	0.000240930	0.00037862724	0.000395201620
Last Area	183251497	9045859	010481
Residual	-9.2165	10.6928	-1.47627
Rep StDev			
Rep %RSD			
Rep 1 Area	207529	528224	2530354
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO07-23-14 2-25-40 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO07-23-14 2-56-31 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO 07-23-14 3-27-33 PM.dat
Rep 1 Sample ID	50 ppm MO	200 ppm MO	1,000 ppm MO
Rep 1 Calib. Time	7/24/2014 9:36:57 AM	7/24/2014 9:37:16 AM	7/24/2014 9:37:32 AM

:quence Print

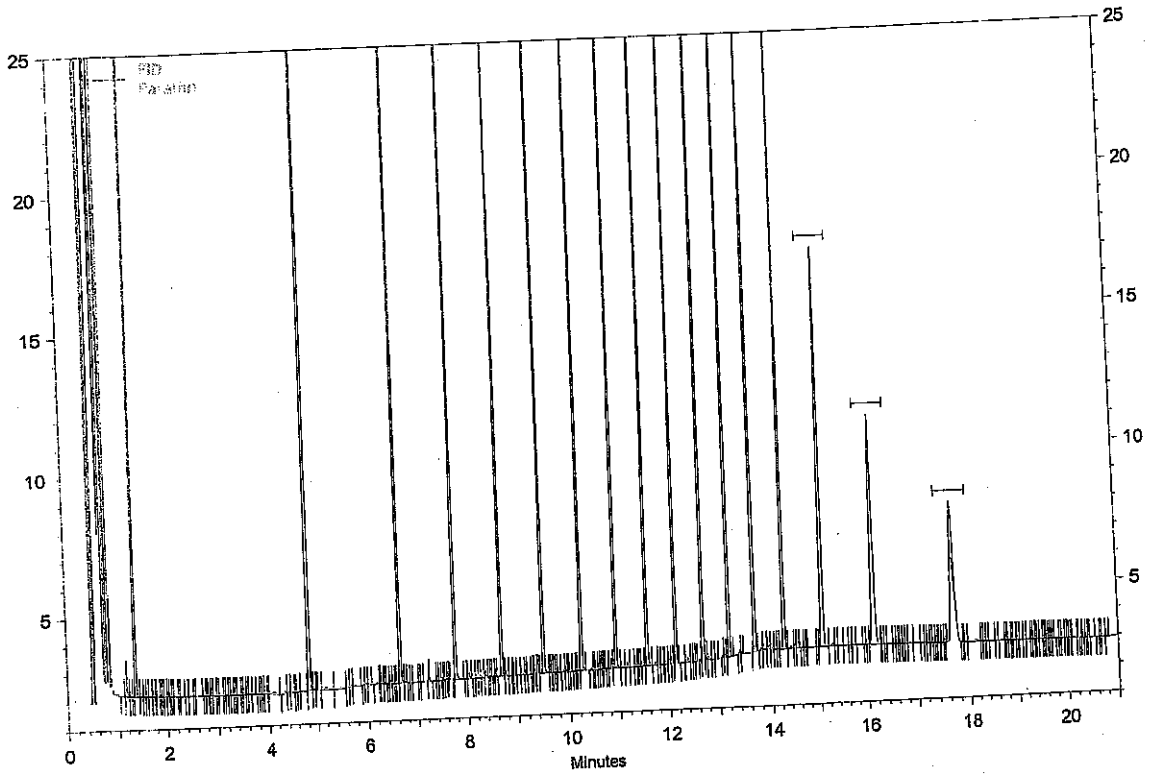
BN 7.23.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditione r	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Parafiin <D>.dat	1
3	Unknown	0	1	4 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 ppm<D>.dat	1
4	Unknown	0	1	10 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 ppm<D>.dat	1
5	Unknown	0	1	20 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 ppm<D>.dat	1
6	Unknown	0	1	50 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm<D>.dat	1
7	Unknown	0	1	100 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ppm<D>.dat	1
8	Unknown	0	1	200 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm<D>.dat	1
9	Unknown	0	1	300 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 ppm<D>.dat	1
10	Unknown	0	1	500 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 ppm<D>.dat	1
11	Unknown	0	1	1,000 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm<D>.dat	1
12	Unknown	0	1	100 ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO<D>.dat	1
14	Unknown	0	1	200 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO<D>.dat	1
15	Unknown	0	1	1,000 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO <D>.dat	1
16	Unknown	0	1	200 MO ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 MO ICV <D>.dat	1

7/24/14

Instument: **FID2 (Offline)** Vial #: **2**
Sample ID: **Paraffin** Data Descritpion: **SV109-1506**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\Parafiin 07-23-14 8-39-58 AM.dat
Acquired: 7/23/2014 8:49:35 AM



FID Results

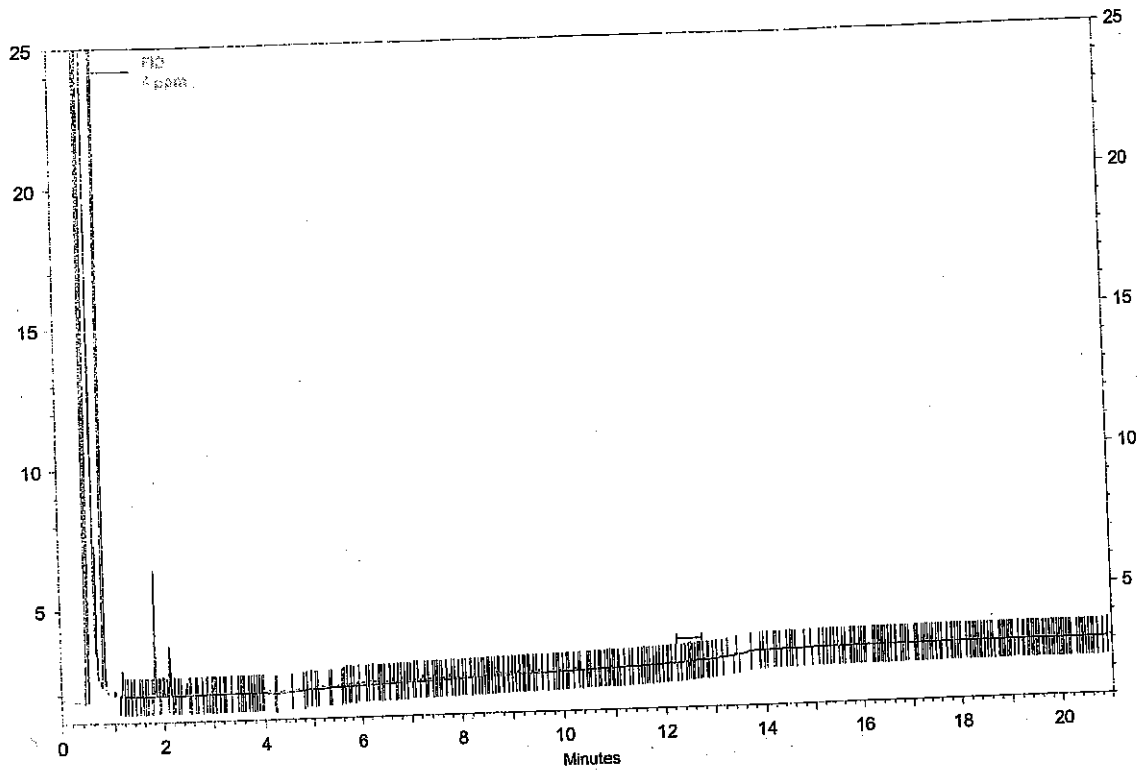
Name	Retention Time	Area	ug/ml
C08	1.35	66298	0.000
C10	4.82	82094	0.000
C12	6.63	79168	0.000
C14	7.75	77216	0.000
C16	8.67	75823	0.000
C18	9.49	74756	0.000
C20	10.24	75229	0.000
C22	10.92	74495	0.000
C24	11.55	74291	0.000
C26	12.13	77121	0.000
C28	12.67	78639	0.000
C30	13.18	76874	0.000
C32	13.66	64338	0.000
C34	14.25	47500	0.000
C36	15.04	36128	0.000
C38	16.13	29475	0.000
C40	17.69	6099	0.000

Analyst BN

Reviewed By

Sample ID: **4 ppm** Data Descritpion: **SV109-1510**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat
Aquired: 7/23/2014 9:20:57 AM



FID Results

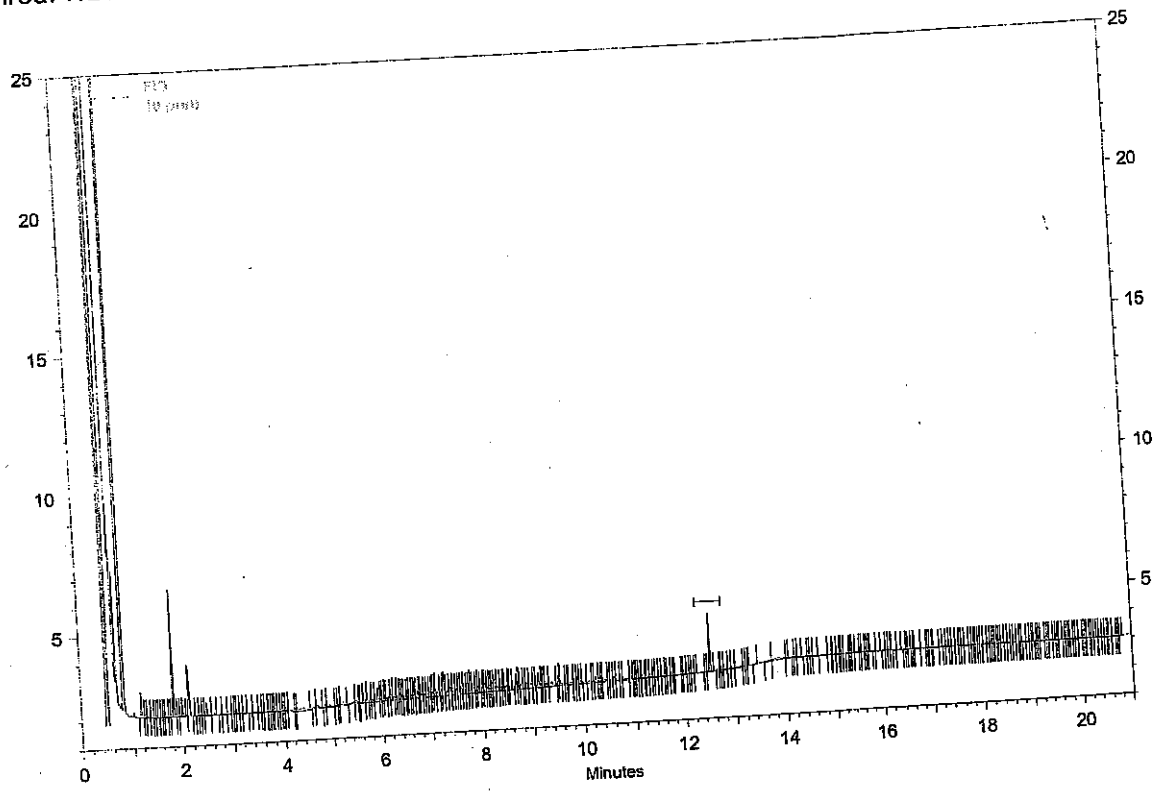
Name	Retention Time	Area	ug/ml
DNOP	12.48	424	0.400 CAL
DRO		19249	4.000 CAL

Analyst BN

Reviewed By

strument: [illegible]
ample ID: **10 ppm** Data Descritpion: **SV109-1511**

ethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
le: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat
quired: 7/23/2014 9:52:12 AM



FID Results

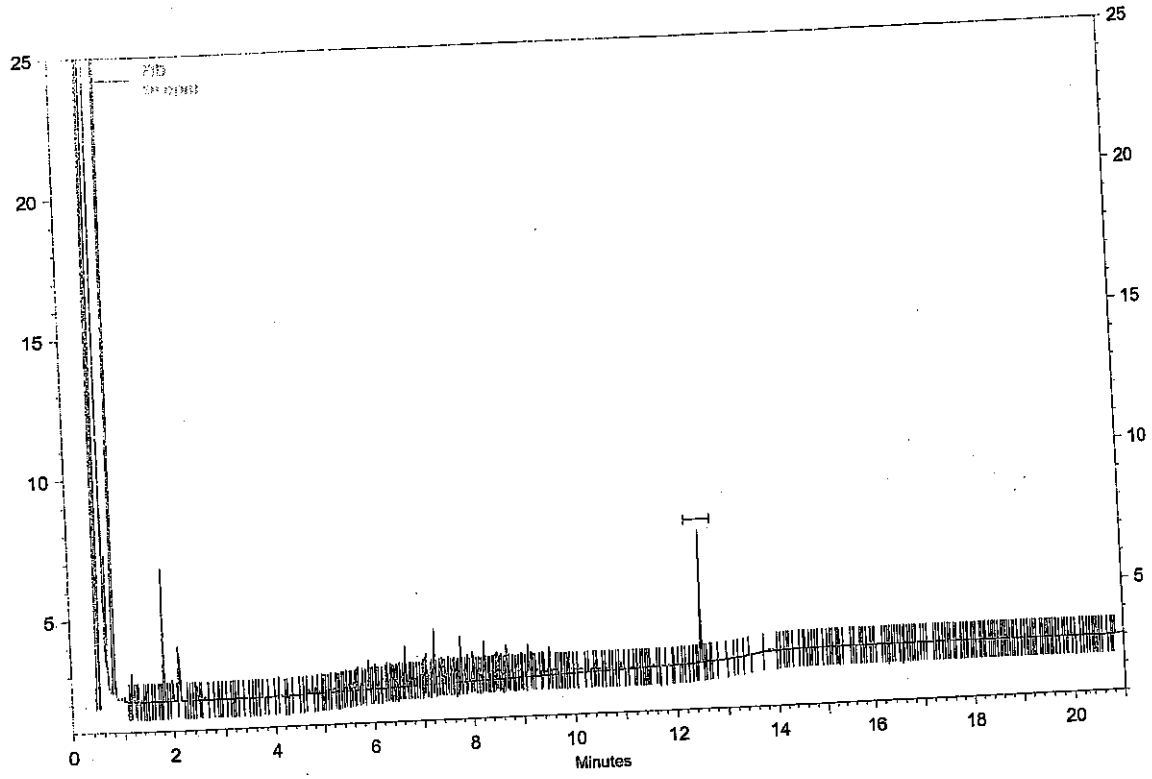
Name	Retention Time	Area	ug/ml
DNOP	12.48	2502	1.000 CAL
DRO		37000	10.000 CAL

Analyst BN

Reviewed By

Sample ID: **20 ppm** Data Description:

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat
Aquired: 7/23/2014 10:23:31 AM



FID Results

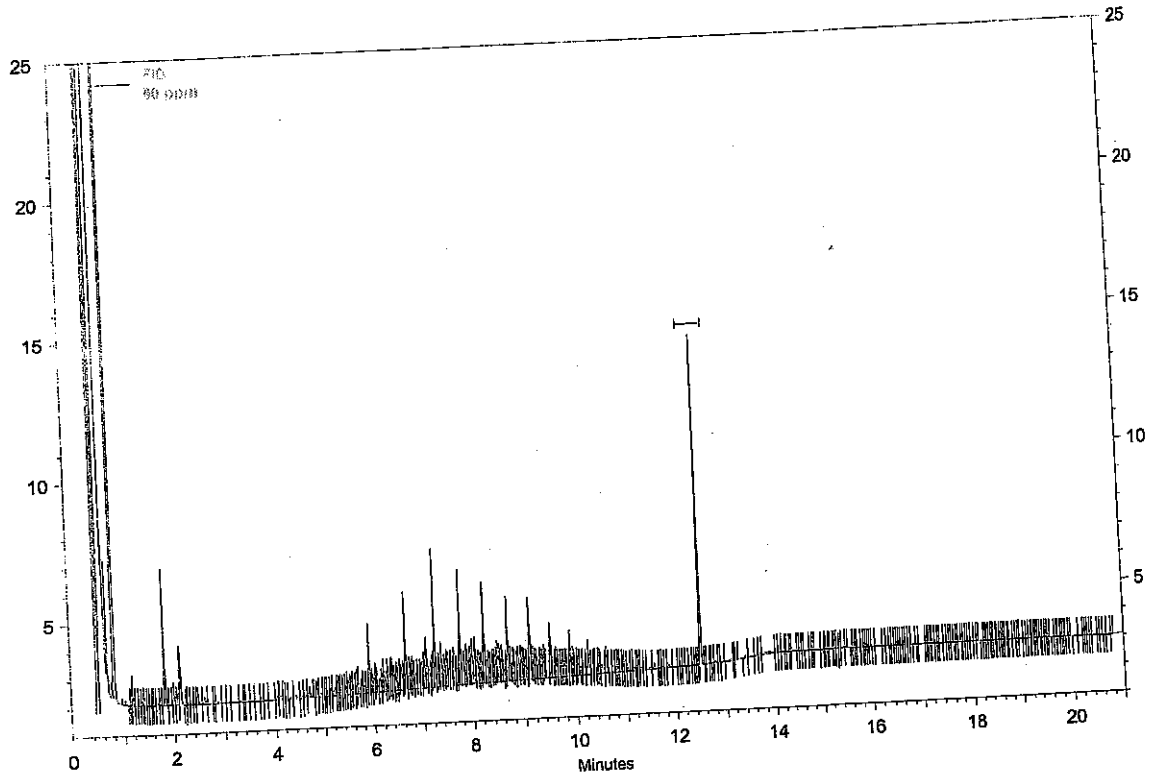
Name	Retention Time	Area	ug/ml
DNOP	12.49	5305	2.000 CAL
DRO		77990	20.000 CAL

Analyst BN

Reviewed By

Instrument: FID2 (Semi)
Sample ID: **50 ppm** Data Descritpion: **SV109-1513**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat
Acquired: 7/23/2014 10:54:58 AM



FID Results

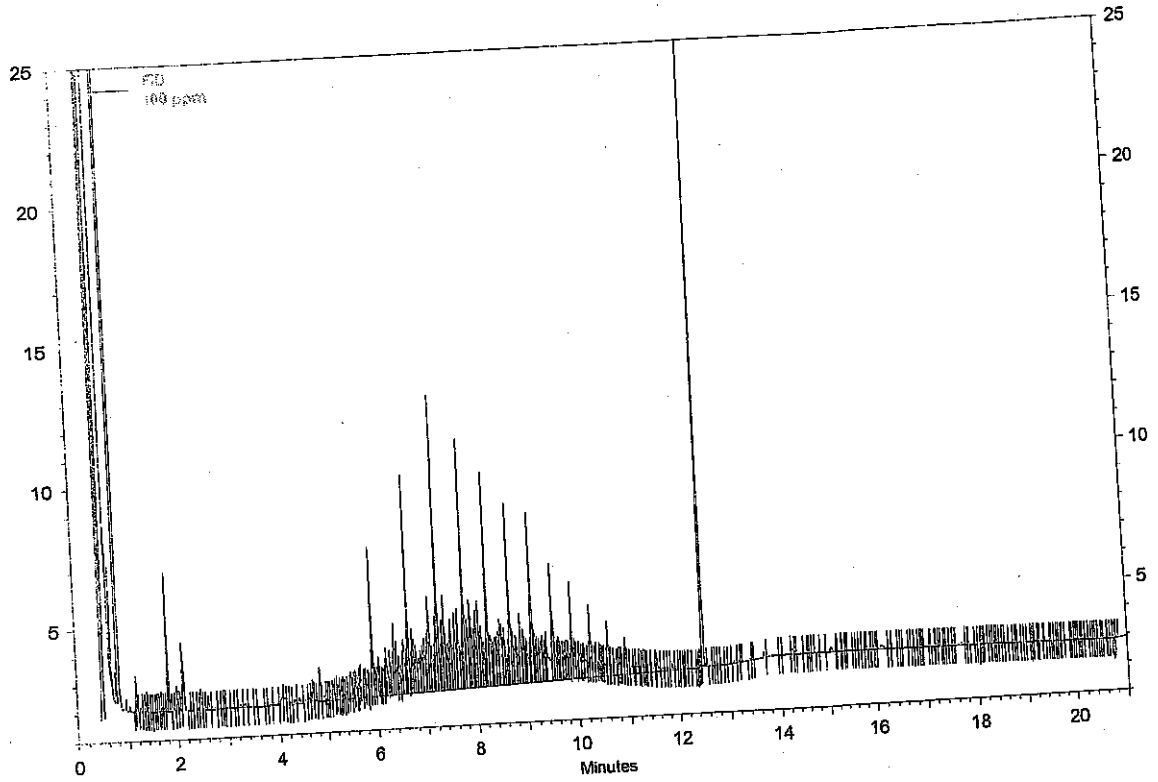
Name	Retention Time	Area	ug/ml
DNOP	12.48	12896	5.000 CAL
DRO		176595	50.000 CAL

Analyst BN

Reviewed By

ample ID: **100 ppm** Data Description:

ethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
quired: 7/23/2014 11:26:15 AM



FID Results

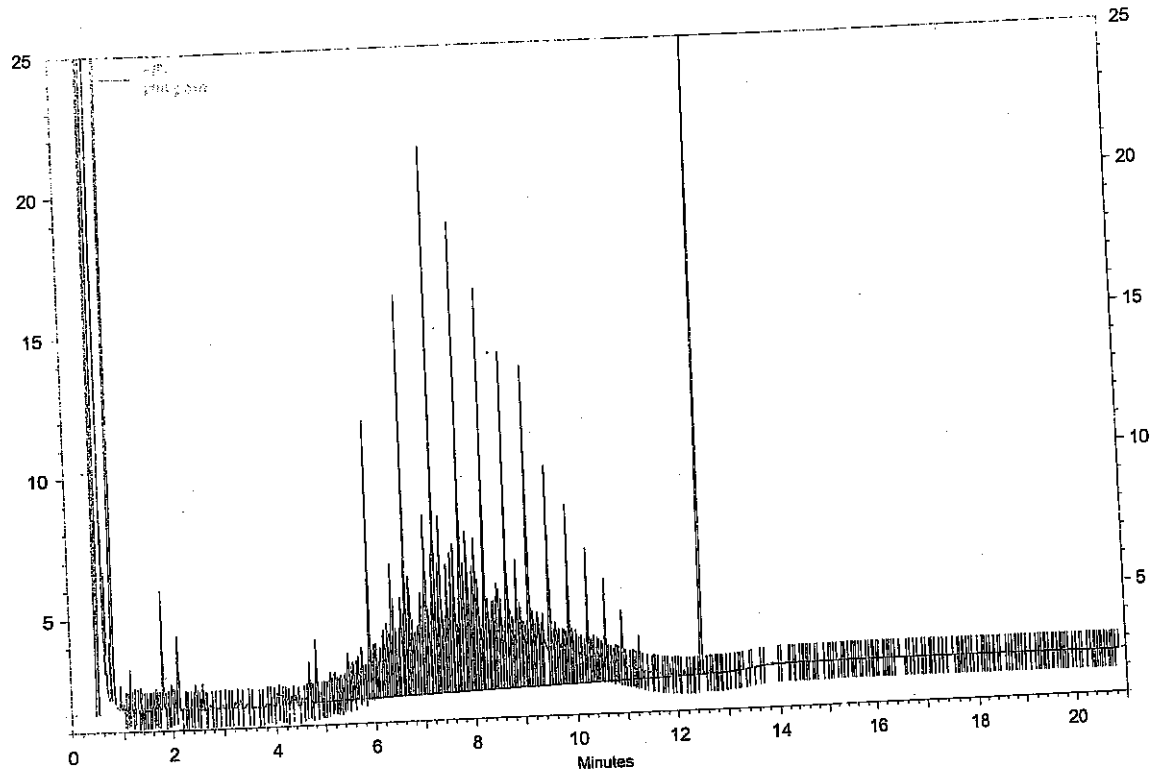
Name	Retention Time	Area	ug/ml
DNOP	12.48	26592	10.000 CAL
DRO		362975	100.000 CAL

Analyst BN

Reviewed By

ample ID: **200 ppm** Data Descritpion: SV109-1318

lethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat
quired: 7/23/2014 11:57:51 AM



FID Results

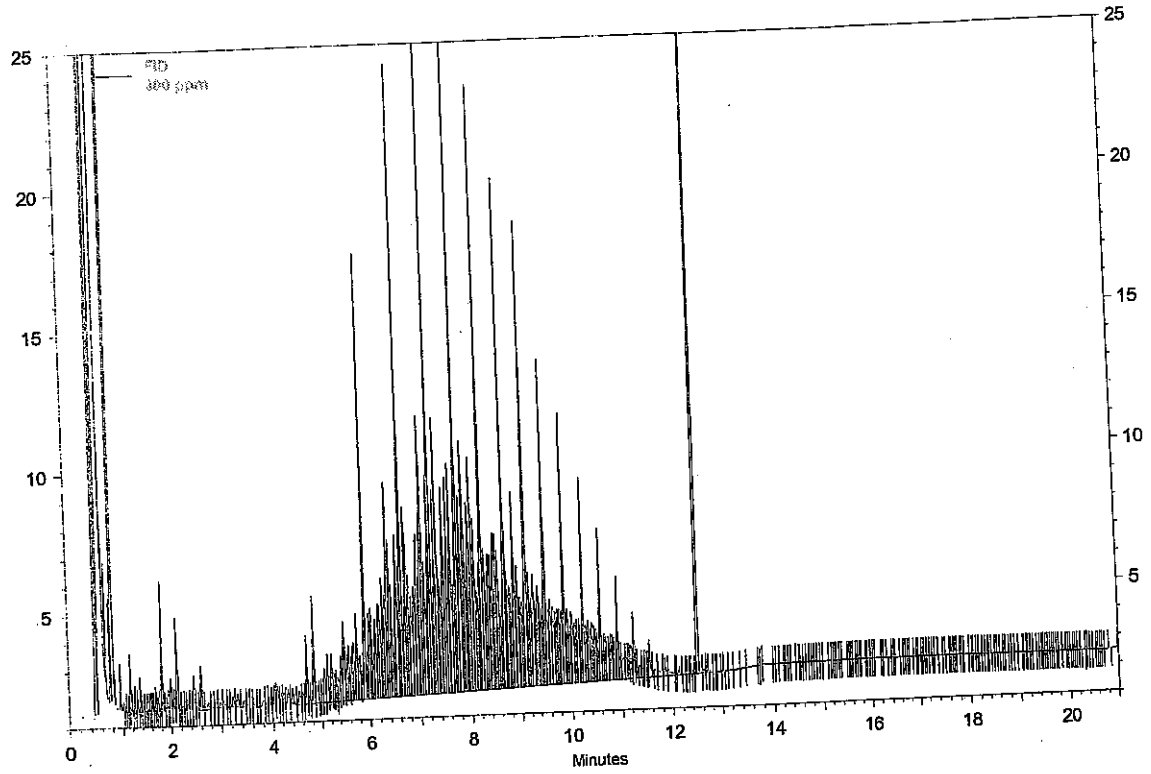
Name	Retention Time	Area	ug/ml
DNOP	12.48	51020	20.000 CAL
DRO		661154	200.000 CAL

Analyst BN

Reviewed By

Sample ID: **300 ppm** Data Descritpion: **SV109-1516**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat
Acquired: 7/23/2014 12:29:45 PM



FID Results

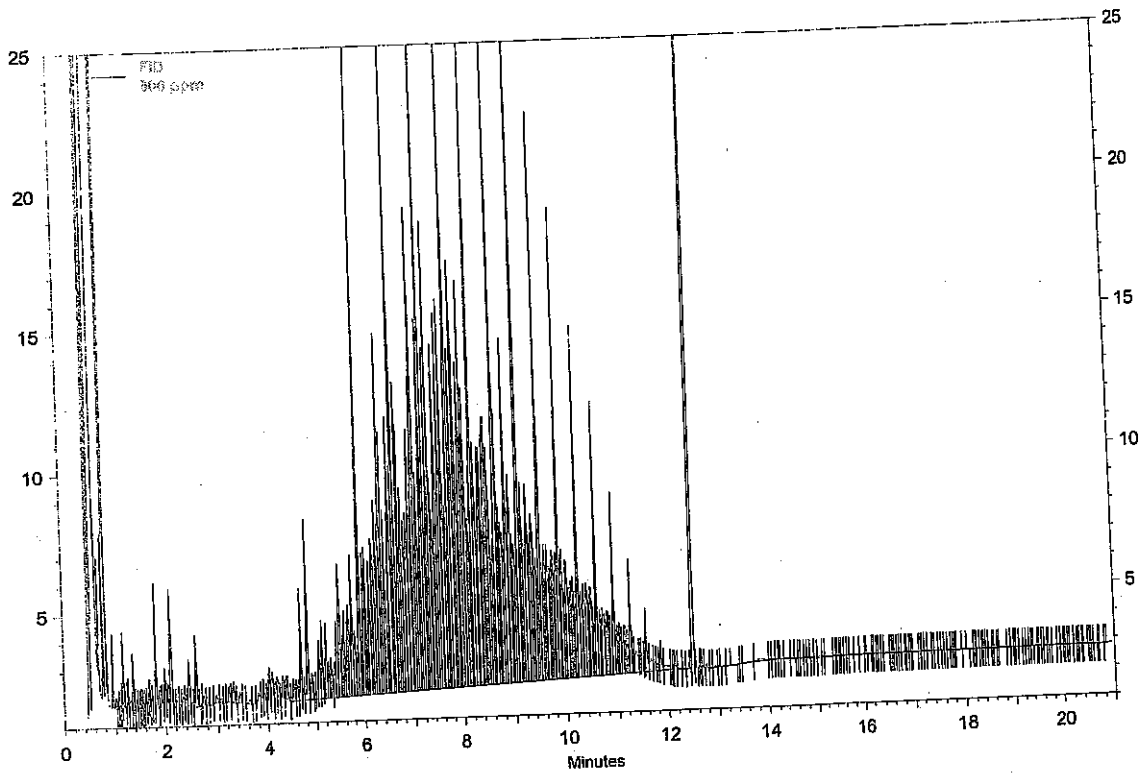
Name	Retention Time	Area	ug/ml
DNOP	12.49	80114	30.000 CAL
DRO		1031177	300.000 CAL

Analyst BN

Reviewed By

Sample ID: **500 ppm** Data Descritpion: **SV109-1517**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat
Aquired: 7/23/2014 1:01:34 PM



FID Results

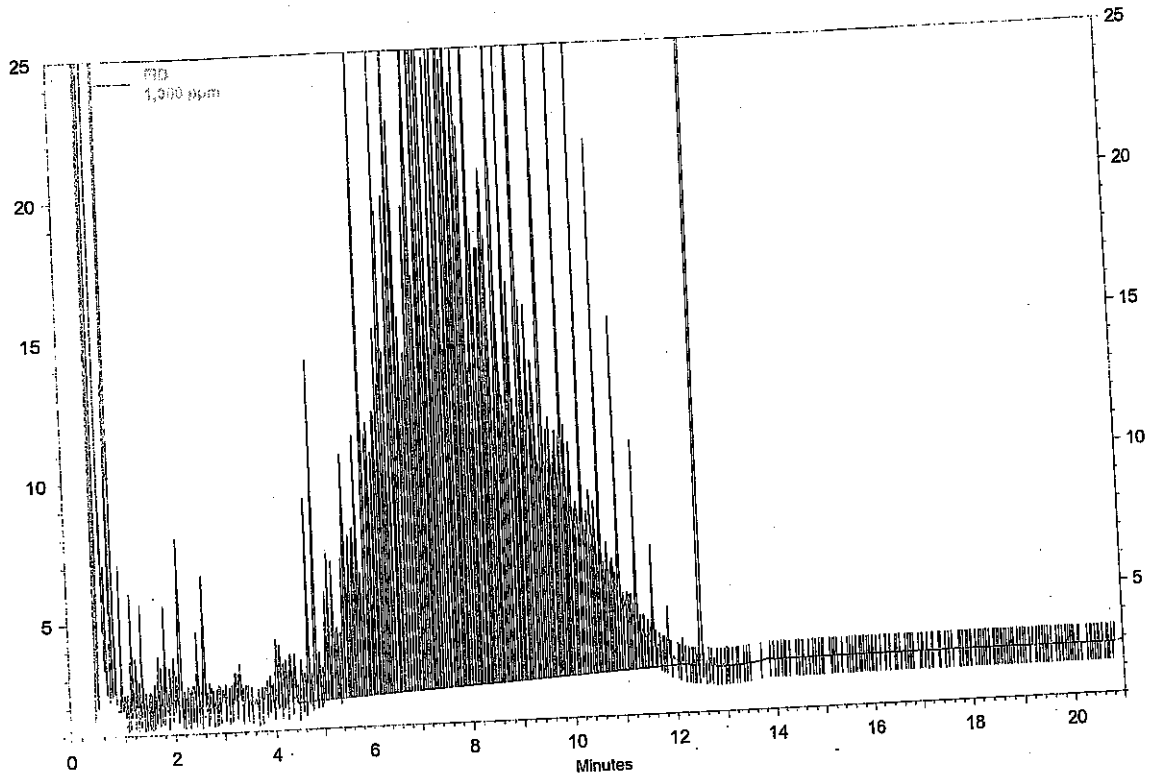
Name	Retention Time	Area	ug/ml
DNOP	12.49	132795	50.000 CAL
DRO		1771808	500.000 CAL

Analyst BN

Reviewed By

Instrument: FID2 (Chem)
Sample ID: **1,000 ppm** Data Descritpion: **SV109-1516**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Aquired: 7/23/2014 1:33:07 PM



FID Results

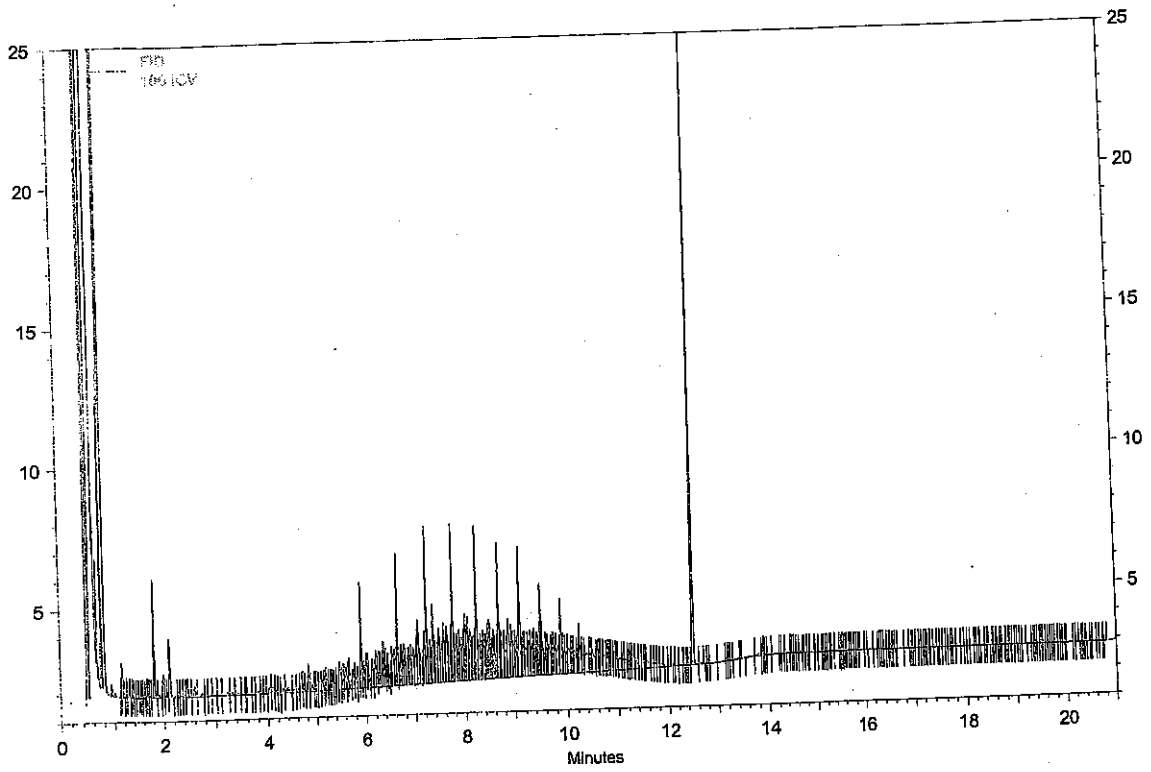
Name	Retention Time	Area	ug/ml
DNOP	12.49	263699	100.000 CAL
DRO		3299464	1000.000 CAL

Analyst BN

Reviewed By

nstument: **FID2 (Offline)**
Sample ID: **100 ICV** Data Descritpion: **SV109-1519**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ICV 07-23-14 1-54-20 PM.dat
Aquired: 7/23/2014 2:04:17 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	30115	11.456
DRO		324518	91.350
MRO		3308	0.000

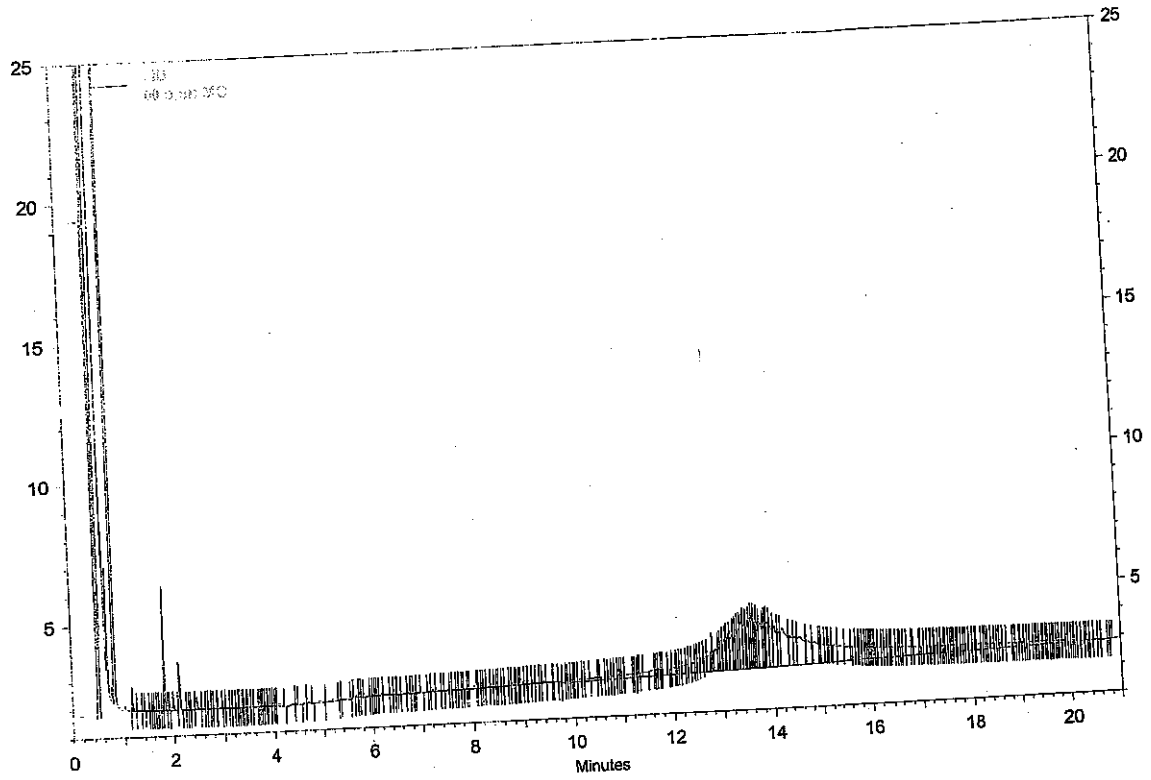
Analyst BN

Reviewed By

±20%

Instrument: FID2 (Offline)
Sample ID: **50 ppm MO** Data Descritpion: **SV109-1520**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO07-23-14 2-25-40 PM.dat
Acquired: 7/23/2014 2:35:13 PM



FID Results

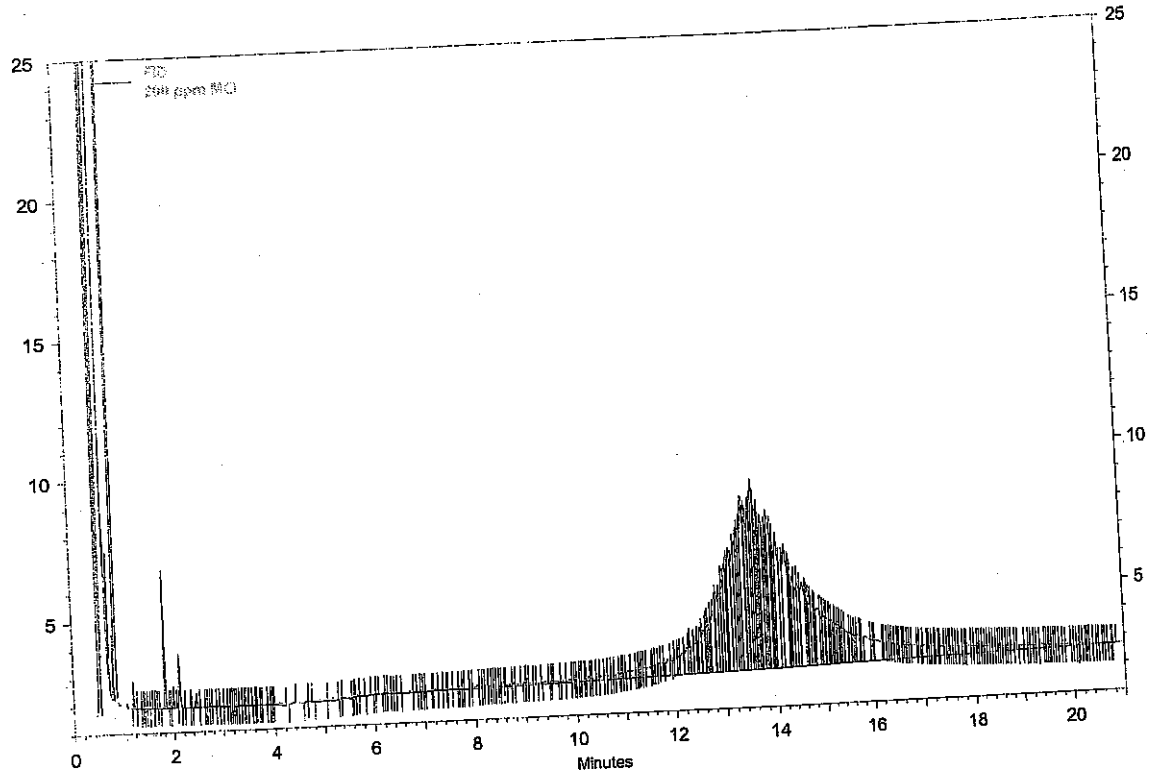
Name	Retention Time	Area	ug/ml
MRO		207529	50.000 CAL

Analyst BM

Reviewed By

ample ID: **200 ppm MO** Data Description:

lethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO07-23-14 2-56-31 PM.dat
quired: 7/23/2014 3:06:11 PM



FID Results

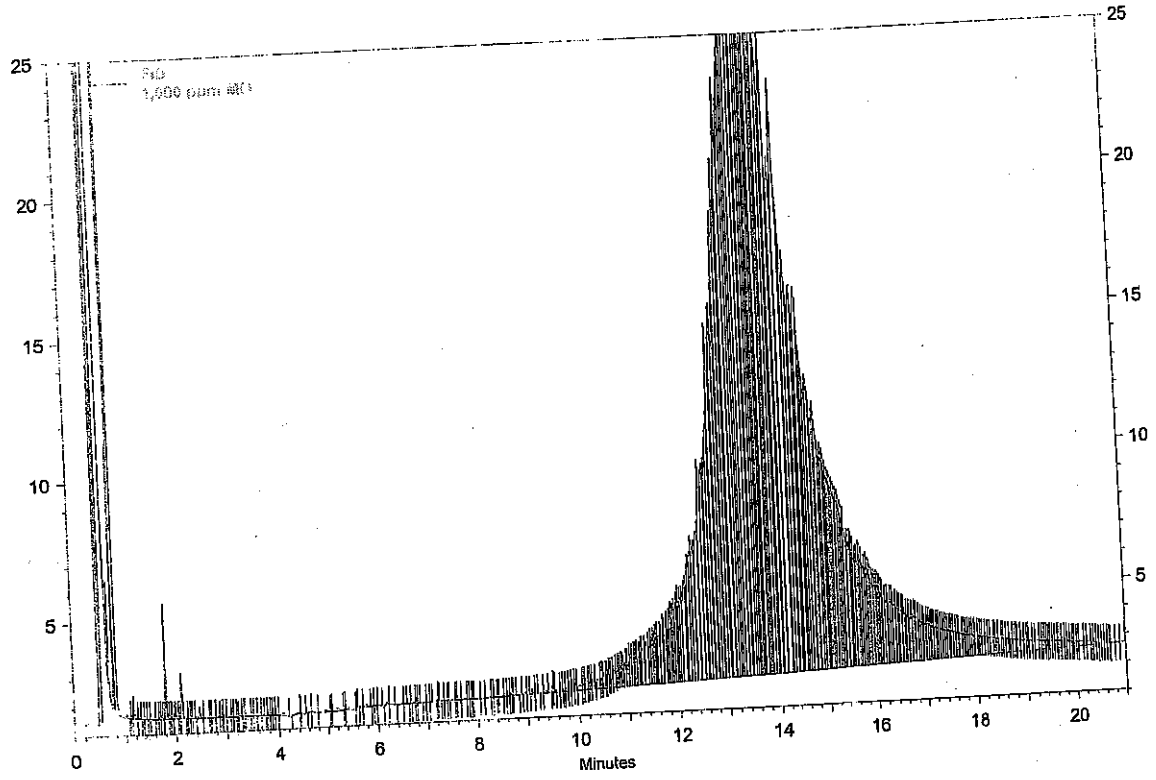
Name	Retention Time	Area	ug/ml
MRO		528224	200.000 CAL

Analyst BN

Reviewed By

ample ID: **1,000 ppm MO** Data Description:

ethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO 07-23-14 3-27-33 PM.dat
quired: 7/23/2014 3:37:46 PM



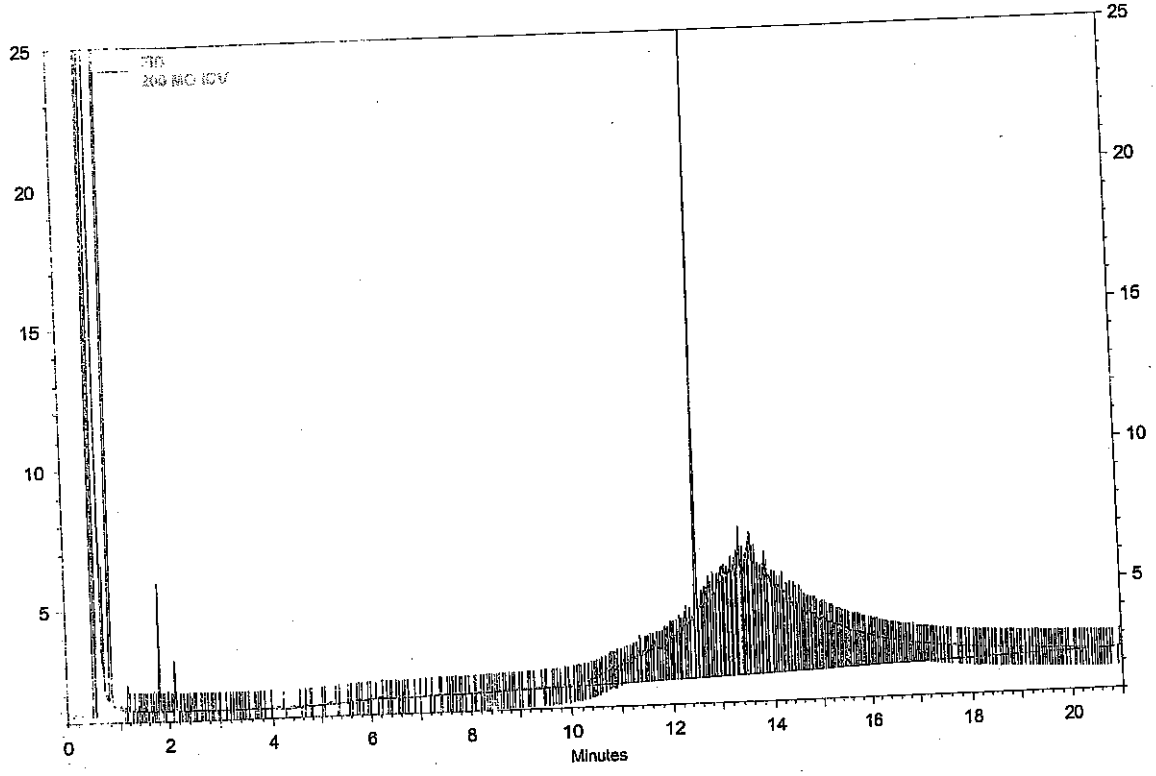
FID Results **Name**	**Retention Time**	**Area**	**ug/ml**
MRO		2530354	1000.000 CAL

Analyst BN

Reviewed By

nstument: **FID 2 (Offline)** Vial #: 16
Sample ID: **200 MO ICV** Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	35885	13.621
DRO		91522	26.686
MRO		538883	193.631

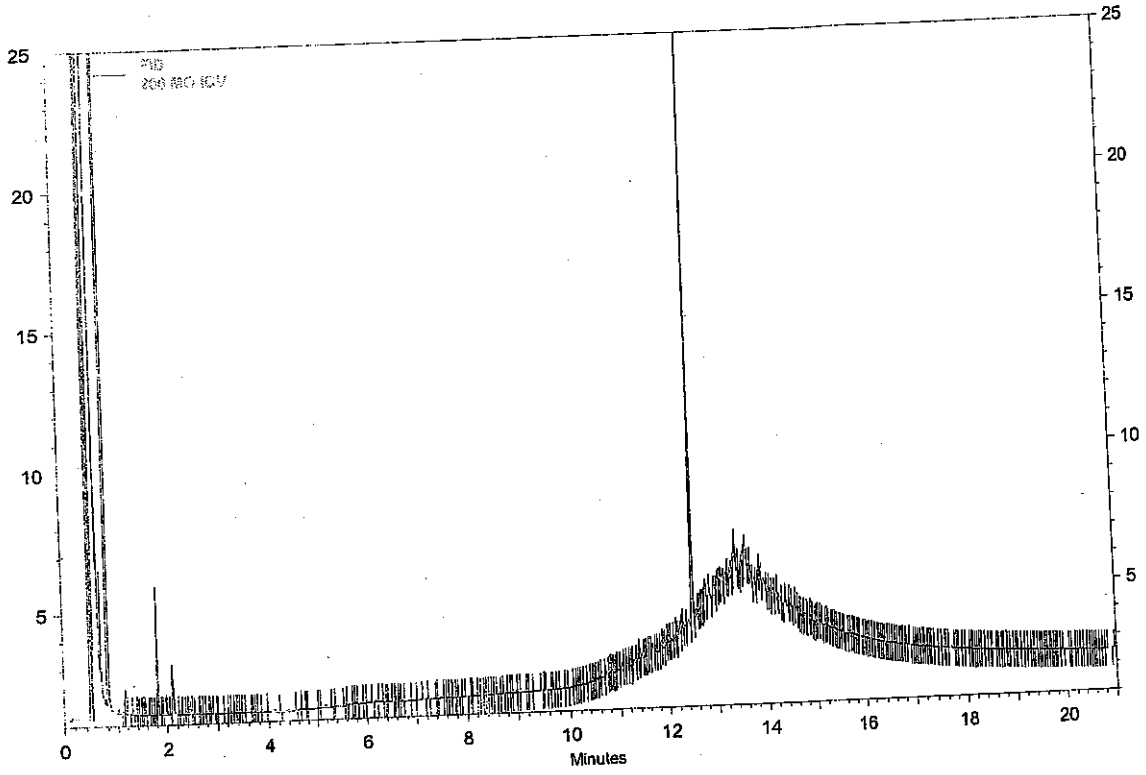
Analyst BN

Reviewed By JE

13.621
- 10.268
3.353
+193.631
196.984
200 x100
= 98.492% ✓
+20%

Instument: **FID 2 (Offline)** Vial #: 16
Sample ID: **200 MO ICV** Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	26950	10.268
DRO		10198	4.331
MRO		21952	0.000

Analyst _____

Reviewed By _____

WB 7/30/14

Analytical Report
Lab Order: **1407C55**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-001 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0032 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dry	1	R20183	7/28/2014 4:13:03 PM
Surr: BFB	108	61.2-137		%REC	1	R20183	7/28/2014 4:13:03 PM

Lab ID: 1407C55-002 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0033 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dry	1	R20183	7/28/2014 5:37:12 PM
Surr: BFB	113	61.2-137		%REC	1	R20183	7/28/2014 5:37:12 PM

Lab ID: 1407C55-003 **Collection Date:** 7/25/2014 9:20:00 AM
Client Sample ID: FFOR-CF-0034 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dry	1	R20183	7/28/2014 6:05:20 PM
Surr: BFB	111	61.2-137		%REC	1	R20183	7/28/2014 6:05:20 PM

Lab ID: 1407C55-004 **Collection Date:** 7/25/2014 9:28:00 AM
Client Sample ID: FFOR-CF-0035 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	6.0		mg/Kg-dry	1	R20183	7/28/2014 6:33:16 PM
Surr: BFB	108	61.2-137		%REC	1	R20183	7/28/2014 6:33:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407C55
Project: Kirtland AFB

Lab ID: 1407C55-005 **Collection Date:** 7/25/2014 9:37:00 AM
Client Sample ID: FFOR-CF-0036 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg-dry	1	R20183	7/28/2014 7:01:13 PM
Surr: BFB	111	61.2-137		%REC	1	R20183	7/28/2014 7:01:13 PM

Lab ID: 1407C55-006 **Collection Date:** 7/25/2014 3:30:00 PM
Client Sample ID: FFOR-CF-0037 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg-dry	1	R20183	7/28/2014 7:29:03 PM
Surr: BFB	112	61.2-137		%REC	1	R20183	7/28/2014 7:29:03 PM

Lab ID: 1407C55-007 **Collection Date:**
Client Sample ID: Methanol Blank **Matrix:** MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment:							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Surr: BFB	107	61.2-137		%REC	1	R20183	7/28/2014 7:56:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

```
rian Star Workstation - Generic SampleList  Sun Jul 06 18:33:02 2014

mpleList:   C:\VarianWS\070614v.smp

eated:      Sun Jul 06 15:00:06 2014
odified:    Sun Jul 06 18:32:58 2014

*****************************************************************************
```

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: JNB 7/8/14

```
Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070614v.rcl.
```

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: [signature] 7-7-14

QA: [signature] NB7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

JB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2														
b13 7-7-20	93813	14.31		93420	16.34													

Surrogate

IS1 = Benzene-d5-, chloro- ☐

IS2 = BFB ☑

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

RT 7-7-14

NB 7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

SB 7/8/14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3)	BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

Calibration Curves Report

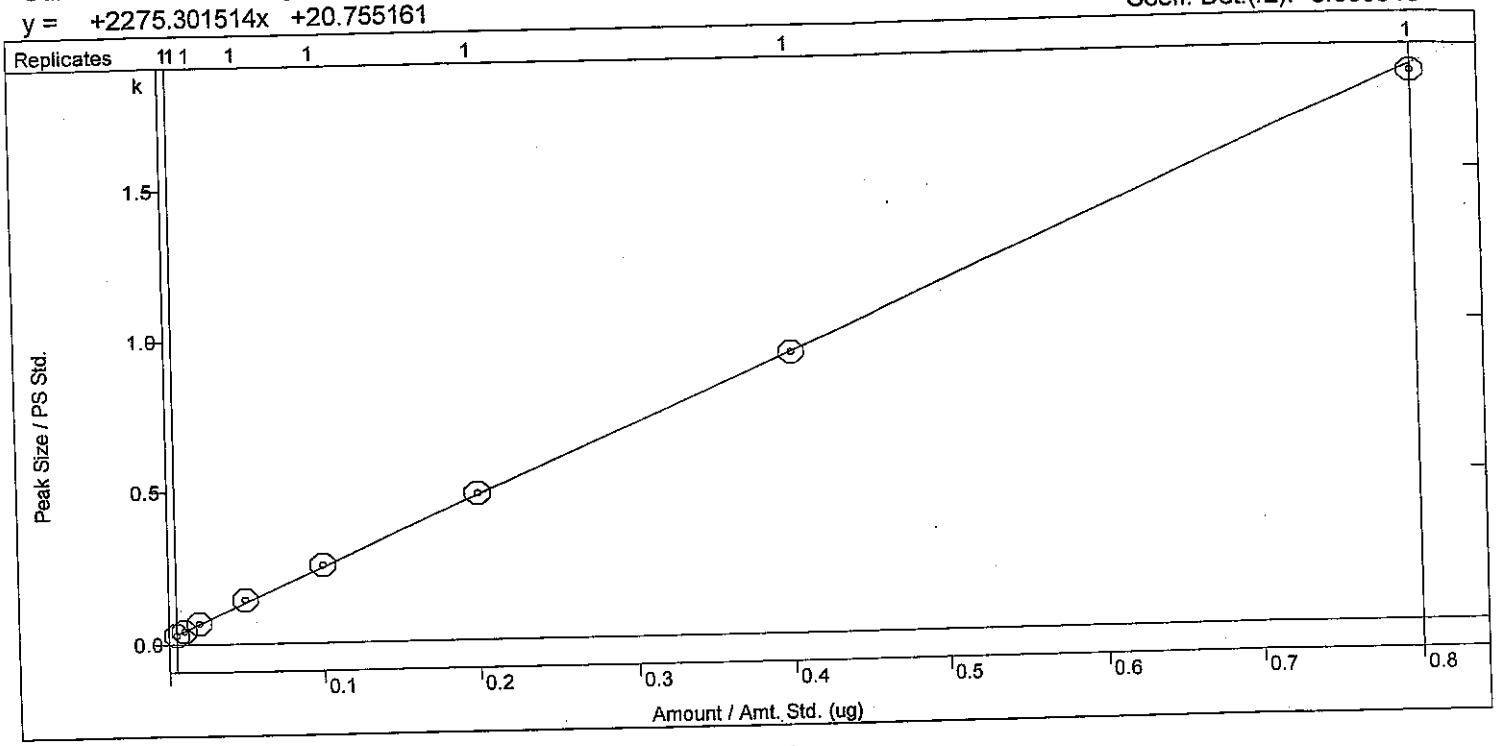
AT 7-7-14

Method:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
Recalc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
y = +2275.301514x +20.755161

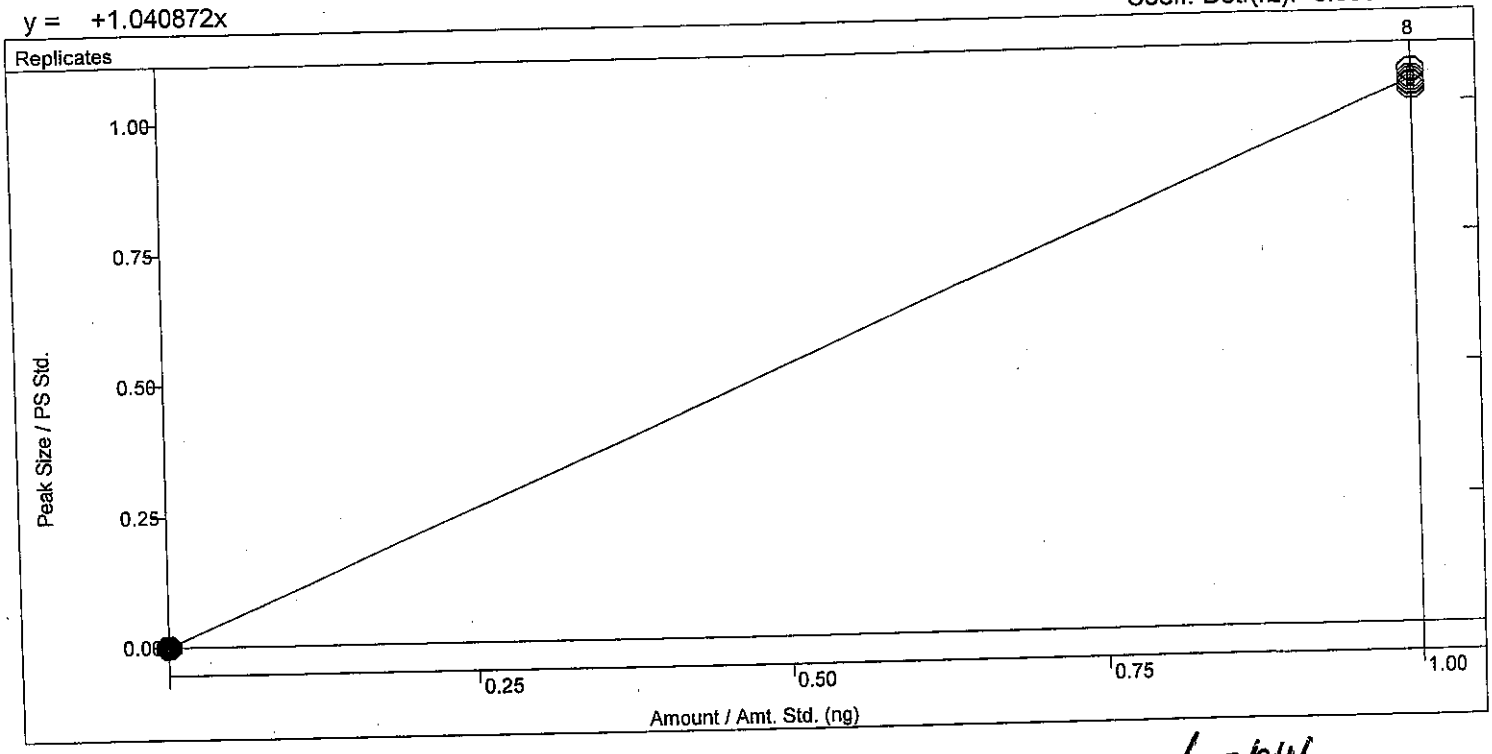
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

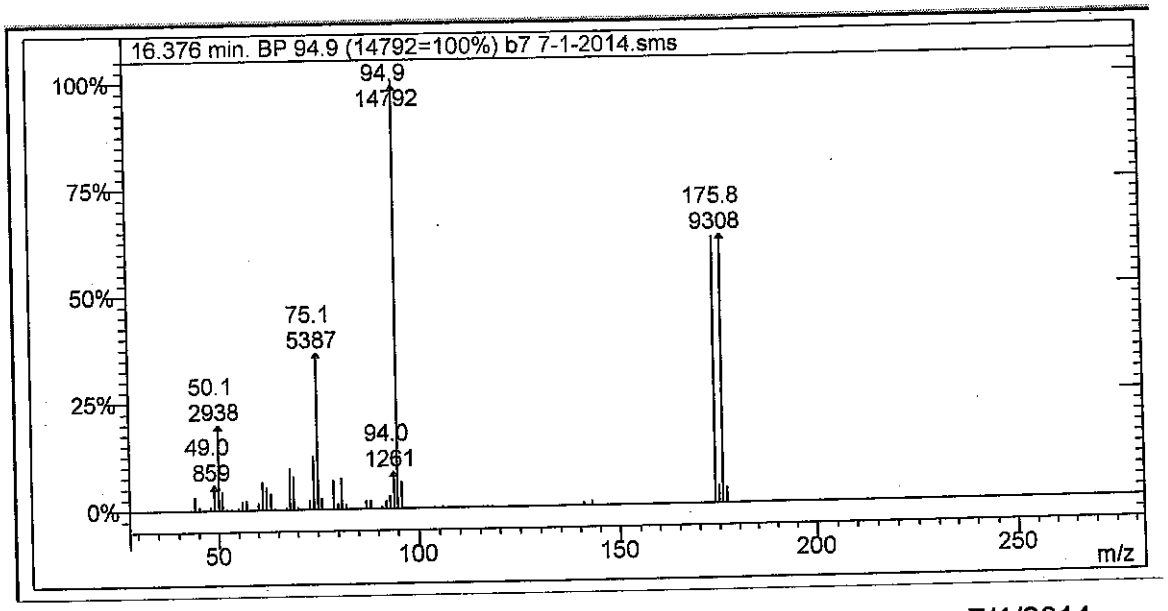
Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

BFB 8260B Report



Lab File ID: b7 7-1-2014.sms

Injection Date: 7/1/2014

Injection Time: 19:11

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.86	PASS
75	30-60% of m/z 95	36.42	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.03	PASS
173	<2% of m/z 174	0.10	PASS
174	>50% of m/z 95	62.48	PASS
175	5-9% of m/z 174	6.46	PASS
176	>95% but <101% of m/z 174	100.71	PASS
177	5-9% of m/z 176	5.57	PASS

7-7-14

7/7/2014 9:37 Analyst: RAA

7/8/14

arian Star Workstation - Generic SampleList Tue Jul 29 08:08:00 2014

ampleList: C:\VarianWS\072814v.smp

reated: Mon Jul 28 08:27:13 2014
odified: Tue Jul 29 08:07:55 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0486	
2	5mL-rb	none time @ 9:11
3	50ng ccv	below
	Notes V-54-0445	
4	100ng lcs	below
	Notes V-11-8058	
5	vsb Deli	below
	Notes 7/21/14-7/28/14 RA	
6	rtm	below
	Notes V-18-1994	
7	2.5ng ccv GRO	below
	Notes V-18-2047	
8	2.5ng lcs GRO	below
	Notes V-18-2036	
9	50ng ccvb	below @ 12:28
	Notes V-54-0447	
10	100ngLcsb200ngAnnex	below
	Notes V-11-8058/V-11-8034	
11	vsb Fridge	below
	Notes 7/21/14-7/28/14 RA	
12	1407C15-001a	below
	Notes x100-1uL PB14441 Oil	
13	b2	none time @ 2:20
14	2.5ng ccvb GRO	below @ 2:48
	Notes V-18-2047	
15	2.5ng lcsb GRO	below
	Notes V-18-2036	
16	b3	none
17	1407C55-001a	below
	Notes x1-100uL MSGRO	
18	1407C55-001ams	below
	Notes x1-100uL MSGRO V-18-2036	
19	1407C55-001amsd	below
	Notes x1-100uL MSGRO V-18-2036	
20	1407C55-002a	below
	Notes x1-100uL MSGRO	
21	1407C55-003a	below
	Notes x1-100uL MSGRO	
22	1407C55-004a	below
	Notes x1-100uL MSGRO	
23	1407C55-005a	below
	Notes x1-100uL MSGRO	
24	1407C55-006a	below
	Notes x1-100uL MSGRO	
25	1407C55-007a	below @ 7:56
	Notes x1-100uL MSGRO FB	
26	LCS-14442	below
	Notes V-11-8058	
27	MB-14442	below
	Notes 4681	
28	1407C46-001a	below
	Notes x1-100uL	
29	1407C46-002a	below
	Notes x1-100uL	
30	1407C46-002ams	below
	Notes x1-100uL V-11-8058	
31	1407C46-002amsd	below
	Notes x1-100uL V-11-8058	
32 hand calc	1407C75-001a	below
	Notes x20-5uL MeOH	
33	1407C75-002a	below
	Notes x1-100uL MeOH	
34	1407C75-003a	below @ 12:07
	Notes x1-100uL MeOH	
35	tt	none

Loaded By: KSH 7/28/14
1st Review By: KSH 7/29/14
QA'd By: NB 7/30/14

```
                 -----
37               vsb Deli      below tune @ 1:54
                 Notes  7/21/14-7/28/14 RA
38            1404C75-004a     below
                 Notes  x1-100uL MeOH
39            1404C75-005a     below
                 Notes  x1-100uL MeOH
40            1404C75-006a     below   r1,b
                 Notes  x10-10uL MeOH
41            1404C75-007a     below   r20
                 Notes  x1-100uL MeOH
42            1404C75-008a     below   r1,b
                 Notes  x10-10uL MeOH
43            1404C75-009a     below   r1
                 Notes  x10-10uL MeOH
44            1407C77-001a     below
                 Notes  x2-2.5mL DDS
45         1407C77-001a ms     below
                 Notes  x2-2.5mL DDS V-11-8058
46        1407C77-001a msd     below
                 Notes  x2-2.5mL DDS V-11-8058
47            1407C77-002a     below
                 Notes  x2-2.5mL DDS
48            1407C77-003a     below
                 Notes  x1-5mL
49            1407C77-004a     below
                 Notes  x2-2.5mL DDS
50            1407C77-005a     below
                 Notes  x2-2.5mL DDS
51            1407C77-006a     below
                 Notes  x2-2.5mL DDS
52            1407C77-007a     below @ 8:29
                 Notes  x1-5mL TB
53

)irectory for Data Files: C:\VarianWS\data

         Data File Names: %s %d

:reate and update a new RecalcList: c:\varianws\072814v.rcl.
```

Loaded By: KSH 7/28/14
1st Review By: KSH 7/29/14
QA'd By: JDS 7/30/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \2014v\0714v\072814v\gro\2.5ng ccvb GRO 7-28-2014.SMS Lab Sample ID: 2.5ng ccvb GRO

Instrument ID: VAL Date Analyzed: 7/28/2014 Time Analyzed: 14:48

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	73167	14.29										
UPPER LIMIT	146334	14.79										
LOWER LIMIT	36584	13.79										
EPA SAMPLE NO												
5mL-rb 7-2	74668	14.29										
rtm 7-28-2	68846	14.29										
2.5ng ccv	73024	14.29										
2.5ng lcs	74244	14.29										
2.5ng lcsb	75238	14.30										
1407C55-00	68366	14.30										
1407C55-00	68091	14.30										
1407C55-00	65441	14.30										
1407C55-00	64371	14.30										
1407C55-00	63724	14.30										
1407C55-00	64956	14.30										
1407C55-00	64408	14.30										
1407C55-00	65228	14.30										
1407C55-00	66159	14.30										

VJB 7/30/14

KJH 7/29/14

Analyst: KJH

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
IS1																		

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıding\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.5ng ccvb	73167	14.29										

KJH 7/29/14

✓ WB 7/31/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/28/2014 Time: 14:48

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ng ccvb gro 7-28-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2775.987	0.100	2.50	2.59	-3.8	20.0	PASS	PASS
BFB	1.043	0.100	50.00	50.08	-0.2	30.0	PASS	PASS

KJH 7/29/14

JB 7/31/14

7/28/2014 15:15 Page 1 of 1 2.5ng ccvb gro 7-28-2014.sms

Analyst: KJH

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407C55**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-007
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment:							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Toluene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Naphthalene	ND	0.10		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Acetone	ND	0.75		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Bromoform	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Bromomethane	0.018	0.15	J	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
2-Butanone	ND	0.50		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Chloroethane	ND	0.10		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Chloroform	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Chloromethane	ND	0.15		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20183	7/28/2014 7:56:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment:

EPA METHOD 8260B: VOLATILES Analyst: **KJH**

Hexachlorobutadiene	ND	0.10	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
2-Hexanone	ND	0.50	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Isopropylbenzene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
4-Isopropyltoluene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
4-Methyl-2-pentanone	ND	0.50	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Methylene chloride	ND	0.15	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
n-Butylbenzene	ND	0.15	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
n-Propylbenzene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
sec-Butylbenzene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Styrene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
tert-Butylbenzene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Tetrachloroethene (PCE)	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
trans-1,2-DCE	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
trans-1,3-Dichloropropene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1,1-Trichloroethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,1,2-Trichloroethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Trichloroethene (TCE)	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Trichlorofluoromethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
1,2,3-Trichloropropane	ND	0.10	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Vinyl chloride	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Xylenes, Total	ND	0.10	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Bromochloromethane	ND	0.050	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Vinyl acetate	ND	0.50	mg/Kg	1	R20183	7/28/2014 7:56:55 PM
Surr: Dibromofluoromethane	89.5	70-130	%REC	1	R20183	7/28/2014 7:56:55 PM
Surr: 1,2-Dichloroethane-d4	83.6	70-130	%REC	1	R20183	7/28/2014 7:56:55 PM
Surr: Toluene-d8	94.0	70-130	%REC	1	R20183	7/28/2014 7:56:55 PM
Surr: 4-Bromofluorobenzene	84.0	70-130	%REC	1	R20183	7/28/2014 7:56:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-001
Collection Date: 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0032
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Toluene	0.00102	0.00146	J	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Ethylbenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Xylenes, Total	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Methyl tert-butyl ether (MTBE)	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2,4-Trimethylbenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,3,5-Trimethylbenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2-Dichloroethane (EDC)	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2-Dibromoethane (EDB)	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Naphthalene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Acetone	0.0147	0.00728		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Bromobenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Bromodichloromethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Bromoform	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Bromomethane	0.000802	0.00364	J	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
2-Butanone	ND	0.00728		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Carbon tetrachloride	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Chlorobenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Chloroethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Chloroform	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Chloromethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
2-Chlorotoluene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Carbon disulfide	ND	0.00728		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
4-Chlorotoluene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
cis-1,2-DCE	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
cis-1,3-Dichloropropene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2-Dibromo-3-chloropropane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Dibromochloromethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Dibromomethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2-Dichlorobenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,3-Dichlorobenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,4-Dichlorobenzene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Dichlorodifluoromethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1-Dichloroethane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1-Dichloroethene	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2-Dichloropropane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,3-Dichloropropane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
2,2-Dichloropropane	ND	0.00146		mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Hexachlorobutadiene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Isopropylbenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
4-Isopropyltoluene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Methylene chloride	ND	0.00364	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
n-Butylbenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
2-Hexanone	ND	0.00728	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
n-Propylbenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
sec-Butylbenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Styrene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
4-Methyl-2-pentanone	ND	0.00728	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
tert-Butylbenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1,1,2-Tetrachloroethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Tetrachloroethene (PCE)	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
trans-1,2-DCE	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
trans-1,3-Dichloropropene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2,3-Trichlorobenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2,4-Trichlorobenzene	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1,1-Trichloroethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,1,2-Trichloroethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Trichloroethene (TCE)	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Trichlorofluoromethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
1,2,3-Trichloropropane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Vinyl chloride	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Vinyl acetate	ND	0.00728	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Bromochloromethane	ND	0.00146	mg/Kg-dry	1	14444	7/25/2014 5:29:16 PM
Surr: 1,2-Dichloroethane-d4	82.8	70-130	%REC	1	14444	7/25/2014 5:29:16 PM
Surr: 4-Bromofluorobenzene	100	65.3-135	%REC	1	14444	7/25/2014 5:29:16 PM
Surr: Dibromofluoromethane	93.3	70-130	%REC	1	14444	7/25/2014 5:29:16 PM
Surr: Toluene-d8	104	70-130	%REC	1	14444	7/25/2014 5:29:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-002
Client Sample ID: FFOR-CF-0033
Collection Date: 7/25/2014 9:06:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Toluene	0.00104	0.00150	J	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Ethylbenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Xylenes, Total	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Methyl tert-butyl ether (MTBE)	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2,4-Trimethylbenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,3,5-Trimethylbenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2-Dichloroethane (EDC)	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2-Dibromoethane (EDB)	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Naphthalene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Acetone	0.0136	0.00750		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Bromobenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Bromodichloromethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Bromoform	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Bromomethane	ND	0.00375		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
2-Butanone	ND	0.00750		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Carbon tetrachloride	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Chlorobenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Chloroethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Chloroform	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Chloromethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
2-Chlorotoluene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Carbon disulfide	ND	0.00750		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
4-Chlorotoluene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
cis-1,2-DCE	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
cis-1,3-Dichloropropene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2-Dibromo-3-chloropropane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Dibromochloromethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Dibromomethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,3-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,4-Dichlorobenzene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Dichlorodifluoromethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1-Dichloroethane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1-Dichloroethene	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2-Dichloropropane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,3-Dichloropropane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
2,2-Dichloropropane	ND	0.00150		mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Hexachlorobutadiene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Isopropylbenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
4-Isopropyltoluene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Methylene chloride	ND	0.00375	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
n-Butylbenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
2-Hexanone	ND	0.00750	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
n-Propylbenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
sec-Butylbenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Styrene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
4-Methyl-2-pentanone	ND	0.00750	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
tert-Butylbenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1,1,2-Tetrachloroethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1,2,2-Tetrachloroethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Tetrachloroethene (PCE)	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
trans-1,2-DCE	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
trans-1,3-Dichloropropene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2,3-Trichlorobenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2,4-Trichlorobenzene	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1,1-Trichloroethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,1,2-Trichloroethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Trichloroethene (TCE)	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Trichlorofluoromethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
1,2,3-Trichloropropane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Vinyl chloride	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Vinyl acetate	ND	0.00750	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Bromochloromethane	ND	0.00150	mg/Kg-dry	1	14444	7/25/2014 6:58:42 PM
Surr: 1,2-Dichloroethane-d4	93.6	70-130	%REC	1	14444	7/25/2014 6:58:42 PM
Surr: 4-Bromofluorobenzene	95.2	65.3-135	%REC	1	14444	7/25/2014 6:58:42 PM
Surr: Dibromofluoromethane	91.2	70-130	%REC	1	14444	7/25/2014 6:58:42 PM
Surr: Toluene-d8	102	70-130	%REC	1	14444	7/25/2014 6:58:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-003
Client Sample ID: FFOR-CF-0034
Collection Date: 7/25/2014 9:20:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Toluene	0.000764	0.00123	J	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Ethylbenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Xylenes, Total	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Methyl tert-butyl ether (MTBE)	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2,4-Trimethylbenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,3,5-Trimethylbenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2-Dichloroethane (EDC)	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2-Dibromoethane (EDB)	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Naphthalene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Acetone	0.00891	0.00613		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Bromobenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Bromodichloromethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Bromoform	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Bromomethane	ND	0.00307		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
2-Butanone	ND	0.00613		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Carbon tetrachloride	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Chlorobenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Chloroethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Chloroform	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Chloromethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
2-Chlorotoluene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Carbon disulfide	ND	0.00613		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
4-Chlorotoluene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
cis-1,2-DCE	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
cis-1,3-Dichloropropene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2-Dibromo-3-chloropropane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Dibromochloromethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Dibromomethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2-Dichlorobenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,3-Dichlorobenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,4-Dichlorobenzene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Dichlorodifluoromethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1-Dichloroethane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1-Dichloroethene	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2-Dichloropropane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,3-Dichloropropane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
2,2-Dichloropropane	ND	0.00123		mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Hexachlorobutadiene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Isopropylbenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
4-Isopropyltoluene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Methylene chloride	ND	0.00307	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
n-Butylbenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
2-Hexanone	ND	0.00613	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
n-Propylbenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
sec-Butylbenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Styrene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
4-Methyl-2-pentanone	ND	0.00613	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
tert-Butylbenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1,1,2-Tetrachloroethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1,2,2-Tetrachloroethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Tetrachloroethene (PCE)	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
trans-1,2-DCE	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
trans-1,3-Dichloropropene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2,3-Trichlorobenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2,4-Trichlorobenzene	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1,1-Trichloroethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,1,2-Trichloroethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Trichloroethene (TCE)	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Trichlorofluoromethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
1,2,3-Trichloropropane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Vinyl chloride	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Vinyl acetate	ND	0.00613	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Bromochloromethane	ND	0.00123	mg/Kg-dry	1	14444	7/25/2014 7:28:32 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%REC	1	14444	7/25/2014 7:28:32 PM
Surr: 4-Bromofluorobenzene	93.0	65.3-135	%REC	1	14444	7/25/2014 7:28:32 PM
Surr: Dibromofluoromethane	93.4	70-130	%REC	1	14444	7/25/2014 7:28:32 PM
Surr: Toluene-d8	99.2	70-130	%REC	1	14444	7/25/2014 7:28:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-004
Client Sample ID: FFOR-CF-0035
Collection Date: 7/25/2014 9:28:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.000861	0.00128	J	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Toluene	0.00139	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Ethylbenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Xylenes, Total	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2,4-Trimethylbenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,3,5-Trimethylbenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2-Dichloroethane (EDC)	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2-Dibromoethane (EDB)	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Naphthalene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Acetone	0.0101	0.00642		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Bromobenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Bromodichloromethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Bromoform	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Bromomethane	ND	0.00321		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
2-Butanone	ND	0.00642		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Carbon tetrachloride	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Chlorobenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Chloroethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Chloroform	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Chloromethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
2-Chlorotoluene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Carbon disulfide	ND	0.00642		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
4-Chlorotoluene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
cis-1,2-DCE	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
cis-1,3-Dichloropropene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2-Dibromo-3-chloropropane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Dibromochloromethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Dibromomethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2-Dichlorobenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,3-Dichlorobenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,4-Dichlorobenzene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Dichlorodifluoromethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1-Dichloroethane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1-Dichloroethene	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2-Dichloropropane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,3-Dichloropropane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
2,2-Dichloropropane	ND	0.00128		mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Hexachlorobutadiene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Isopropylbenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
4-Isopropyltoluene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Methylene chloride	ND	0.00321	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
n-Butylbenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
2-Hexanone	ND	0.00642	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
n-Propylbenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
sec-Butylbenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Styrene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
4-Methyl-2-pentanone	ND	0.00642	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
tert-Butylbenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1,1,2-Tetrachloroethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1,2,2-Tetrachloroethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Tetrachloroethene (PCE)	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
trans-1,2-DCE	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
trans-1,3-Dichloropropene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2,3-Trichlorobenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2,4-Trichlorobenzene	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1,1-Trichloroethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,1,2-Trichloroethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Trichloroethene (TCE)	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Trichlorofluoromethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
1,2,3-Trichloropropane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Vinyl chloride	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Vinyl acetate	ND	0.00642	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Bromochloromethane	ND	0.00128	mg/Kg-dry	1	14444	7/25/2014 7:58:21 PM
Surr: 1,2-Dichloroethane-d4	94.3	70-130	%REC	1	14444	7/25/2014 7:58:21 PM
Surr: 4-Bromofluorobenzene	101	65.3-135	%REC	1	14444	7/25/2014 7:58:21 PM
Surr: Dibromofluoromethane	87.9	70-130	%REC	1	14444	7/25/2014 7:58:21 PM
Surr: Toluene-d8	97.0	70-130	%REC	1	14444	7/25/2014 7:58:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-005
Client Sample ID: FFOR-CF-0036
Collection Date: 7/25/2014 9:37:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Toluene	0.000784	0.00109	J	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Ethylbenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Xylenes, Total	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Methyl tert-butyl ether (MTBE)	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2,4-Trimethylbenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,3,5-Trimethylbenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2-Dichloroethane (EDC)	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2-Dibromoethane (EDB)	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Naphthalene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Acetone	0.0111	0.00545		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Bromobenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Bromodichloromethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Bromoform	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Bromomethane	ND	0.00272		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
2-Butanone	ND	0.00545		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Carbon tetrachloride	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Chlorobenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Chloroethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Chloroform	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Chloromethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
2-Chlorotoluene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Carbon disulfide	ND	0.00545		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
4-Chlorotoluene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
cis-1,2-DCE	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
cis-1,3-Dichloropropene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2-Dibromo-3-chloropropane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Dibromochloromethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Dibromomethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2-Dichlorobenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,3-Dichlorobenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,4-Dichlorobenzene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Dichlorodifluoromethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1-Dichloroethane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1-Dichloroethene	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2-Dichloropropane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,3-Dichloropropane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
2,2-Dichloropropane	ND	0.00109		mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407C55
Project: Kirtland AFB

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Hexachlorobutadiene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Isopropylbenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
4-Isopropyltoluene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Methylene chloride	ND	0.00272	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
n-Butylbenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
2-Hexanone	ND	0.00545	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
n-Propylbenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
sec-Butylbenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Styrene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
4-Methyl-2-pentanone	ND	0.00545	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
tert-Butylbenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1,1,2-Tetrachloroethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1,2,2-Tetrachloroethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Tetrachloroethene (PCE)	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
trans-1,2-DCE	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
trans-1,3-Dichloropropene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2,3-Trichlorobenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2,4-Trichlorobenzene	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1,1-Trichloroethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,1,2-Trichloroethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Trichloroethene (TCE)	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Trichlorofluoromethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
1,2,3-Trichloropropane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Vinyl chloride	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Vinyl acetate	ND	0.00545	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Bromochloromethane	ND	0.00109	mg/Kg-dry	1	14444	7/25/2014 8:28:11 PM
Surr: 1,2-Dichloroethane-d4	88.7	70-130	%REC	1	14444	7/25/2014 8:28:11 PM
Surr: 4-Bromofluorobenzene	98.4	65.3-135	%REC	1	14444	7/25/2014 8:28:11 PM
Surr: Dibromofluoromethane	87.3	70-130	%REC	1	14444	7/25/2014 8:28:11 PM
Surr: Toluene-d8	103	70-130	%REC	1	14444	7/25/2014 8:28:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407C55
Project: Kirtland AFB

Lab ID: 1407C55-006 **Collection Date:** 7/25/2014 3:30:00 PM
Client Sample ID: FFOR-CF-0037 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.000808	0.00121	J	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Toluene	0.00123	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Ethylbenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Xylenes, Total	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2,4-Trimethylbenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,3,5-Trimethylbenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2-Dichloroethane (EDC)	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2-Dibromoethane (EDB)	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Naphthalene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Acetone	0.00867	0.00607		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Bromobenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Bromodichloromethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Bromoform	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Bromomethane	ND	0.00304		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
2-Butanone	ND	0.00607		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Carbon tetrachloride	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Chlorobenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Chloroethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Chloroform	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Chloromethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
2-Chlorotoluene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Carbon disulfide	ND	0.00607		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
4-Chlorotoluene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
cis-1,2-DCE	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
cis-1,3-Dichloropropene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2-Dibromo-3-chloropropane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Dibromochloromethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Dibromomethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2-Dichlorobenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,3-Dichlorobenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,4-Dichlorobenzene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Dichlorodifluoromethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1-Dichloroethane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1-Dichloroethene	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2-Dichloropropane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,3-Dichloropropane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
2,2-Dichloropropane	ND	0.00121		mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Hexachlorobutadiene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Isopropylbenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
4-Isopropyltoluene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Methylene chloride	ND	0.00304	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
n-Butylbenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
2-Hexanone	ND	0.00607	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
n-Propylbenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
sec-Butylbenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Styrene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
4-Methyl-2-pentanone	ND	0.00607	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
tert-Butylbenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1,1,2-Tetrachloroethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1,2,2-Tetrachloroethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Tetrachloroethene (PCE)	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
trans-1,2-DCE	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
trans-1,3-Dichloropropene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2,3-Trichlorobenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2,4-Trichlorobenzene	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1,1-Trichloroethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,1,2-Trichloroethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Trichloroethene (TCE)	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Trichlorofluoromethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
1,2,3-Trichloropropane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Vinyl chloride	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Vinyl acetate	ND	0.00607	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Bromochloromethane	ND	0.00121	mg/Kg-dry	1	14444	7/25/2014 8:58:00 PM
Surr: 1,2-Dichloroethane-d4	93.0	70-130	%REC	1	14444	7/25/2014 8:58:00 PM
Surr: 4-Bromofluorobenzene	91.4	65.3-135	%REC	1	14444	7/25/2014 8:58:00 PM
Surr: Dibromofluoromethane	85.5	70-130	%REC	1	14444	7/25/2014 8:58:00 PM
Surr: Toluene-d8	95.8	70-130	%REC	1	14444	7/25/2014 8:58:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Sat Jul 05 15:29:07 2014

ampleList: C:\VarianWS\070514v.smp

reated: Sat Jul 05 14:08:22 2014
odified: Sat Jul 05 15:22:31 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes	All injections contain V-52-0464
2	b2	none
3	b3	none
4	b4	none
5	b5	none turn @~~8:44~~ 4:10
6		
7	2ng crv	below
	Notes	V-54-0433
8	5ng crv	below
	Notes	V-54-0433
9	10ng crv	below
	Notes	V-54-0433
10	25ng crv	below
	Notes	V-54-0433
11	50ng crv	below
	Notes	V-54-0433
12	100ng crv	below
	Notes	V-54-0433
13	227.27ng crv	below
	Notes	V-54-0433
14	500ng crv	below
	Notes	V-54-0433
15	b6	none
16	b7	none
17	100ng icv	below
	Notes	V-54-0434 @ 9:35
18	b8	none
19		

Loaded By: M 7-5-14
1st Review By: M 7-7-14
QA'd By: WB 7/8/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070514v.rcl.

8260B/624
Calibration Summary

Instrument: Val **Date:** 7-5-14

Calibration Name: 070514v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☒	☐	VQL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	~~2ng missing Abs: 10ng~~
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☐	☐	
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☒	☐	VQL: 454.54ng
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☒	☐	VQL: 454.54ng
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: [signature] and [signature]

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: PL 7-7-14

QA: NB 7/8/14

Additional Comments:

2ng point for chloroethane is applied to curve. The re-calculation of 2ng point cov however missed it. PQL = 10ng so this is not a compound searched for at such low levels.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ata\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
b1 7-5-201	72969	7.99	98481	14.30	51810	17.91						
b2 7-5-201	61982	7.99	90085	14.30	48616	17.90						
b3 7-5-201	63870	8.00	91848	14.30	50127	17.91						
b4 7-5-201	62929	8.00	88937	14.30	48869	17.91						
b5 7-5-201	62961	8.00	89757	14.30	50229	17.91						
2ng crv 7-	63768	8.00	92372	14.31	50870	17.91						
5ng crv 7-	64769	8.00	91068	14.30	52637	17.91						
10ng crv 7	66192	7.99	96603	14.30	53057	17.91						
25ng crv 7	63322	8.00	96491	14.31	55344	17.91						
50ng crv 7	64429	8.00	93524	14.31	53499	17.91						
227.27ng c	69958	7.99	101108	14.30	57411	17.90						
500ng crv	70266	7.98	101209	14.30	56767	17.90						
b6 7-5-201	68040	7.98	92412	14.30	53675	17.90						
b7 7-5-201	65873	7.99	97388	14.30	51659	17.91						
100ng icv	69236	7.99	99243	14.30	54295	17.90						
b8 7-5-201	65844	7.99	94286	14.30	51027	17.91						

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Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b5 7-5-2014.sms Injection Date: 7/5/2014

Instrument ID: VAL Injection Time: 16:18

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.1	
75	30-60% of m/z 95	34.6	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.2 (0.3)	174
174	>50% of m/z 95	59.2	
175	5-9% of m/z 174	4.6 (7.7)	174
176	>95% but <101% of m/z 174	59.8 (101.0)	174
177	5-9% of m/z 176	3.6 (6.1)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b5 7-5-201	b5	h:\val\data\2014v\0714v\070514v 8260 crv\b5 7-5-2014.SMS	7/5/2014 16:18
42ng crv 7-	2ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\2ng crv 7-5-2014.SMS	7/5/2014 16:49
55ng crv 7-	5ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\5ng crv 7-5-2014.SMS	7/5/2014 17:20
610ng crv 7	10ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\10ng crv 7-5-2014.SMS	7/5/2014 17:52
725ng crv 7	25ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\25ng crv 7-5-2014.SMS	7/5/2014 18:20
850ng crv 7	50ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\50ng crv 7-5-2014.SMS	7/5/2014 18:48
9100ng crv	100ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS	7/5/2014 19:16
10227.27ng c	227.27ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\227.27ng crv 7-5-2014.SMS	7/5/2014 19:44
11 500ng crv	500ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\500ng crv 7-5-2014.SMS	7/5/2014 20:12
12 b6 7-5-201	b6	h:\val\data\2014v\0714v\070514v 8260 crv\b6 7-5-2014.SMS	7/5/2014 20:39
13 b7 7-5-201	b7	h:\val\data\2014v\0714v\070514v 8260 crv\b7 7-5-2014.SMS	7/5/2014 21:07
14 100ng icv	100ng icv	h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014.SMS	7/5/2014 21:35

Analyst: RAA

AT 7-7-14 JB 7/8/14

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract: | SDG No:

Lab Code: | Case No.: | SAS No: | 7/5/2014

Instrument ID: VAL | Cal. Sample Date(s): 7/5/2014 | 20:12

Heated Purge (Y/N): No | Cal. Sample Time(s): 20:12

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	2.292	2.095	2.192	2.233	2.053	2.105	1.854		0.9966	2.118	6.8	PASS	PASS
Chloromethane	0.510	0.450	0.469	0.532	0.639	0.653	0.696	0.653	0.9990	0.575	16.6	PASS	PASS
Vinyl chloride	1.337	1.234	1.245	1.657	1.738	1.729	1.816	1.676	0.9986	1.554	15.4	PASS	PASS
Chloroethane	0.197	0.206	0.179	0.229	0.243	0.255	0.268	0.249	0.9988	0.228	13.7	PASS	PASS
Bromomethane	0.737	0.753	0.788	0.982	1.076	1.024	1.081	1.113	0.9997	0.944	16.8	PASS	PASS
Trichlorofluoromethane	1.016	0.889	0.899	0.923	0.866	0.881	0.842	0.812	0.9996	0.891	6.9	PASS	PASS
1,1-Dichloroethene	0.845	0.910	1.055	1.264	1.266	1.276	1.216	1.175	0.9995	1.126	15.1	PASS	PASS
Acetone	1.768	1.032	0.798	0.674	0.605	0.620	0.611	0.601	0.9999	0.839	48.1	PASS	PASS
Carbon disulfide	1.261	1.169	1.154	1.146	1.097	1.071	1.065	0.999	0.9992	1.120	7.1	PASS	PASS
Iodomethane	0.252	0.376	0.501	0.703	0.771	0.853	0.944	0.907	0.9995	0.663	38.9	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.574	1.517	1.479	1.562	1.468	1.406	1.377	1.345	0.9998	1.466	5.8	PASS	PASS

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Analyst: RAA

RT 7-7-14

WB 7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	1.183	1.261	1.534	1.651	1.610	1.587	1.531		0.9996	1.480	12.3	PASS	PASS
tert-Butyl alcohol	0.273	0.249	0.247	0.335	0.338	0.399	0.379	0.342	0.9968	0.320	18.1	PASS	PASS
trans-1,2-DCE	1.021	1.179	1.226	1.566	1.496	1.482	1.441	1.409	0.9998	1.353	14.0	PASS	PASS
tert-Butyl ethyl ether	2.397	2.920	3.112	3.364	3.141	3.086	2.914	2.672	0.9980	2.951	10.2	PASS	PASS
1,1-Dichloroethane	0.998	0.943	1.066	1.501	1.521	1.571	1.589	1.500	0.9992	1.336	21.0	PASS	PASS
Methylene Chloride	3.836	2.304	1.887	1.914	1.650	1.587	1.604	1.469	0.9986	2.031	38.2	PASS	PASS
Vinyl Acetate	1.181	1.513	1.662	0.875	2.176	1.849	1.869		0.9944	1.589	27.9	PASS	PASS
2,2-Dichloropropane	1.042	0.970	0.929	0.925	0.868	0.865	0.850	0.806	0.9994	0.907	8.3	PASS	PASS
2-Butanone	0.628	0.689	0.484	0.573	0.633	0.792	0.859	0.839	0.9992	0.687	19.4	PASS	PASS
1,1,1-Trichloroethane	1.569	1.555	1.576	1.662	1.552	1.545	1.536	1.453	0.9994	1.556	3.7	PASS	PASS
tert-Amyl methyl ether	1.634	1.565	1.568	1.660	1.539	1.519	1.506	1.419	0.9993	1.551	4.9	PASS	PASS
1,1-Dichloropropene	0.760	0.779	0.737	0.807	0.762	0.766	0.687	0.632	0.9975	0.741	7.6	PASS	PASS
Carbon Tetrachloride	3.498	3.036	3.335	3.518	3.355	3.247	3.269	3.076	0.9992	3.292	5.3	PASS	PASS
cis-1,2-DCE	1.755	1.706	1.839	2.060	1.957	1.965	1.886	1.853	0.9998	1.878	6.2	PASS	PASS
Benzene	2.113	1.847	1.859	1.974	1.868	1.824	1.824	1.712	0.9992	1.878	6.3	PASS	PASS
Chloroform	1.197	1.140	1.207	1.295	1.260	1.223	1.214	1.162	0.9996	1.212	4.1	PASS	PASS
Bromochloromethane	0.590	0.443	0.423	0.478	0.448	0.447	0.447	0.412	0.9986	0.461	12.1	PASS	PASS
Trichloroethene (TCE)	1.353	1.191	1.148	1.258	1.144	1.221	1.187	1.144	0.9996	1.206	6.0	PASS	PASS
Dibromofluoromethane	1.626	1.630	1.622	1.743	1.696	1.780	1.703	1.658	0.9995	1.682	3.5	PASS	PASS
1,2-Dichloroethane-d4	4.378	4.431	4.389	4.985	5.142	5.226	5.199	5.155	0.9998	4.863	8.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.225	1.140	1.438	1.715	1.718	1.713	1.730	1.624	0.9991	1.538	15.6	PASS	PASS
1,2-Dichloropropane	1.309	1.475	1.612	2.044	2.011	1.944	1.945	1.830	0.9991	1.771	15.4	PASS	PASS
4-Methyl-2-pentanone	1.628	1.785	1.980	2.411	2.273	2.328	2.308	2.051	0.9968	2.095	13.5	PASS	PASS
Toluene-d8	1.780	1.898	1.869	1.882	1.974	1.913	1.988	1.963	0.9999	1.909	3.6	PASS	PASS
Toluene	3.032	2.899	2.721	2.644	2.683	2.569	2.617	2.476	0.9994	2.705	6.7	PASS	PASS
2-Chloroethyl vinyl ether	0.529	0.708	0.857	1.199	1.180	1.181	1.215	1.130	0.9988	1.000	26.6	PASS	PASS
Tetrachloroethene (PCE)	1.428	1.325	1.360	1.369	1.324	1.242	1.217	1.147	0.9992	1.302	7.1	PASS	PASS
cis-1,3-dichloropropene	2.385	2.179	2.103	2.140	2.069	2.040	2.109	2.097	1.0000	2.140	5.0	PASS	PASS
2-Hexanone	0.752	1.170	1.105	1.177	1.119	1.060	1.097	1.029	0.9992	1.064	12.7	PASS	PASS
Bromodichloromethane	2.385	2.367	2.417	2.560	2.467	2.358	2.501	2.448	0.9998	2.438	2.9	PASS	PASS
Dibromomethane	1.211	1.197	1.205	1.241	1.186	1.151	1.196	1.121	0.9992	1.188	3.1	PASS	PASS
1,3-Dichloropropane	1.644	1.628	1.591	1.578	1.539	1.472	1.556	1.458	0.9992	1.558	4.3	PASS	PASS
trans-1,3-dichloropropene	0.892	0.901	0.809	0.887	0.859	0.796	0.813	0.793	0.9998	0.844	5.4	PASS	PASS

100ng crv 7-5-2014.SMS

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Analyst: RAA

RA 7-7-14

7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	3.286	3.143	2.992	3.065	2.962	2.855	2.944	2.784	0.9994	3.004	5.3	PASS	PASS
mp-Xylenes	2.928	2.885	2.734	2.838	2.755	2.663	2.765	2.588	0.9992	2.770	4.1	PASS	PASS
1,1,2-Trichloroethane	1.535	1.604	1.667	1.816	1.746	1.747	1.801	1.755	0.9999	1.709	5.8	PASS	PASS
Chlorobenzene	1.372	1.401	1.269	1.340	1.316	1.253	1.282	1.205	0.9992	1.305	5.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.551	1.494	1.495	1.533	1.515	1.436	1.491	1.459	0.9999	1.497	2.5	PASS	PASS
o-Xylene	2.729	2.765	2.724	2.767	2.760	2.582	2.640	2.583	0.9999	2.694	3.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.474	2.261	2.320	2.333	2.318	2.167	2.254	2.192	0.9998	2.290	4.2	PASS	PASS
Dibromochloromethane	1.242	1.385	1.343	1.380	1.342	1.310	1.300	1.236	0.9995	1.317	4.3	PASS	PASS
Isopropylbenzene	2.750	2.691	2.674	2.650	2.641	2.529	2.521	2.493	1.0000	2.619	3.5	PASS	PASS
Styrene	1.342	1.300	1.213	1.305	1.259	1.259	1.244	1.219	0.9999	1.268	3.5	PASS	PASS
n-Propylbenzene	6.049	6.041	6.151	6.170	6.101	6.146	5.934	5.769	0.9997	6.045	2.2	PASS	PASS
1,3,5-Trimethylbenzene	4.677	4.588	4.550	4.490	4.527	4.374	4.265	4.143	0.9998	4.452	4.0	PASS	PASS
tert-Butylbenzene	5.335	5.025	4.966	4.858	4.937	4.683	4.664	4.692	1.0000	4.895	4.6	PASS	PASS
2-Chlorotoluene	1.622	1.530	1.577	1.515	1.468	1.500	1.502	1.414	0.9993	1.516	4.2	PASS	PASS
4-Bromofluorobenzene	1.948	1.960	1.971	2.048	2.054	2.088	2.026	1.989	0.9998	2.010	2.5	PASS	PASS
sec-Butylbenzene	3.246	3.176	2.994	3.241	3.175	3.228	3.597	3.940	0.9978	3.324	9.0	PASS	PASS
4-Chlorotoluene	1.682	1.473	1.513	1.584	1.530	1.573	1.563	1.684	0.9990	1.575	4.8	PASS	PASS
Bromobenzene	1.521	1.404	1.390	1.450	1.402	1.392	1.366	1.263	0.9986	1.399	5.2	PASS	PASS
1,2,4-Trimethylbenzene	4.864	4.620	4.634	4.721	4.630	4.638	4.623	4.414	0.9996	4.643	2.7	PASS	PASS
4-Isopropyltoluene	4.718	4.792	4.676	4.806	4.814	4.756	4.692	4.766	0.9999	4.752	1.1	PASS	PASS
Bromoform	1.703	1.778	1.791	1.752	1.783	1.794	1.851	1.871	0.9999	1.790	2.9	PASS	PASS
1,2,3-Trichloropropane	1.585	1.475	1.508	1.483	1.542	1.428	1.473	1.400	0.9995	1.487	4.0	PASS	PASS
n-Butylbenzene	4.115	4.508	4.530	4.555	4.800	4.709	4.588	4.555	0.9999	4.545	4.4	PASS	PASS
1,1,2,2-Tetrachloroethane	1.831	1.735	1.997	1.916	2.011	1.948	1.977	2.031	0.9998	1.931	5.2	PASS	PASS
1,3-Dichlorobenzene	2.252	2.090	2.144	2.130	2.067	2.056	2.048	2.026	1.0000	2.101	3.5	PASS	PASS
1,4-Dichlorobenzene	2.230	2.015	2.020	2.036	2.041	1.997	2.005	1.994	1.0000	2.042	3.8	PASS	PASS
1,2-Dichlorobenzene	2.254	1.991	2.007	2.069	1.997	1.970	1.974	1.903	0.9997	2.021	5.2	PASS	PASS
Hexachlorobutadiene	5.216	4.290	4.681	4.537	4.691	4.654	4.616	4.512	0.9999	4.650	5.7	PASS	PASS
1,2-Dibromo-3-chloropropane	1.009	0.917	0.947	0.925	0.902	0.918	0.900	0.878	0.9998	0.925	4.3	PASS	PASS
1,2,4-Trichlorobenzene	1.545	1.520	1.580	1.563	1.620	1.569	1.555	1.510	0.9998	1.558	2.2	PASS	PASS
1,2,3-Trichlorobenzene	1.674	1.614	1.647	1.690	1.727	1.640	1.621	1.537	0.9993	1.644	3.5	PASS	PASS
Naphthalene	3.253	3.065	3.153	3.109	3.185	3.263	3.163	3.327	0.9995	3.190	2.7	PASS	PASS
2-Methylnaphthalene	2.456	2.631	2.635	2.610	2.684	2.623	2.542	2.436	0.9995	2.577	3.5	PASS	PASS

100ng crv 7-5-2014.SMS

7/7/2014 9:32

Analyst: RAA

RT 7.7.14
JB 7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	2.566	2.541	2.507	2.486	2.477	2.473	2.379	2.330	0.9998	2.470	3.2	PASS	PASS
									Average %RSD		8.8		

JDB 7/8/14

PT 7.7.14

100ng crv 7-5-2014.SMS

7/7/2014 9:32

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1;1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

M 7-7-14

✓ NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

RA 7-7-14

JB 7/8/14

Analyst: RAA

Calibration Curves Report

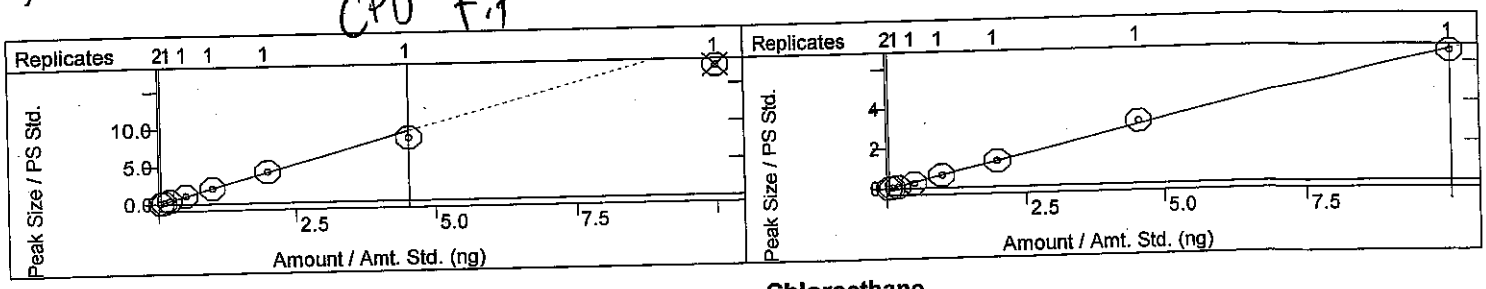
PA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 6.771%, Coeff. Det.(r2): 0.996587
y = +2.0581x +0.0095

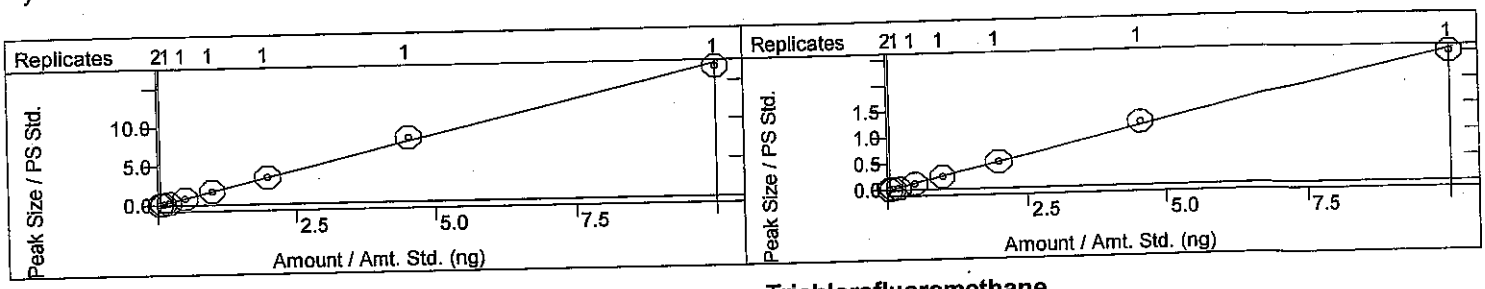
CPO Fit

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.61%, Coeff. Det.(r2): 0.998989
y = +0.6630x -0.0161



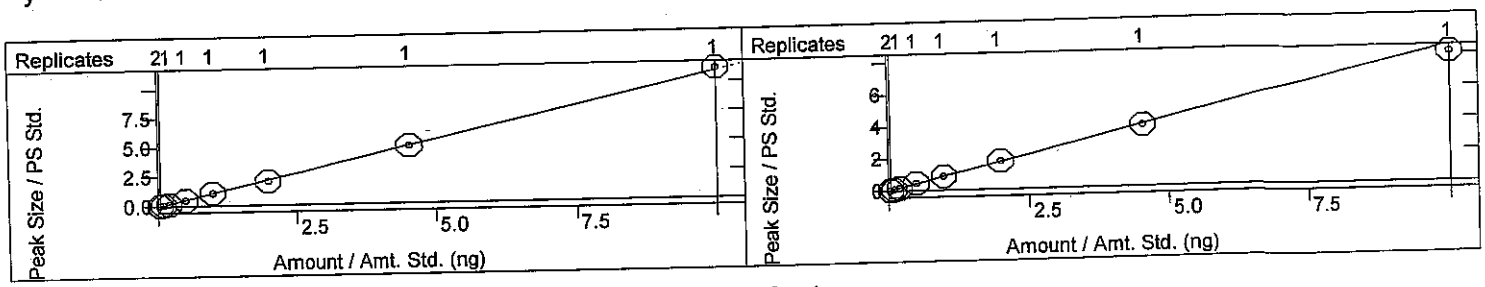
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.45%, Coeff. Det.(r2): 0.998574
y = +1.7248x -0.0312

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.70%, Coeff. Det.(r2): 0.998784
y = +0.2548x -0.0048



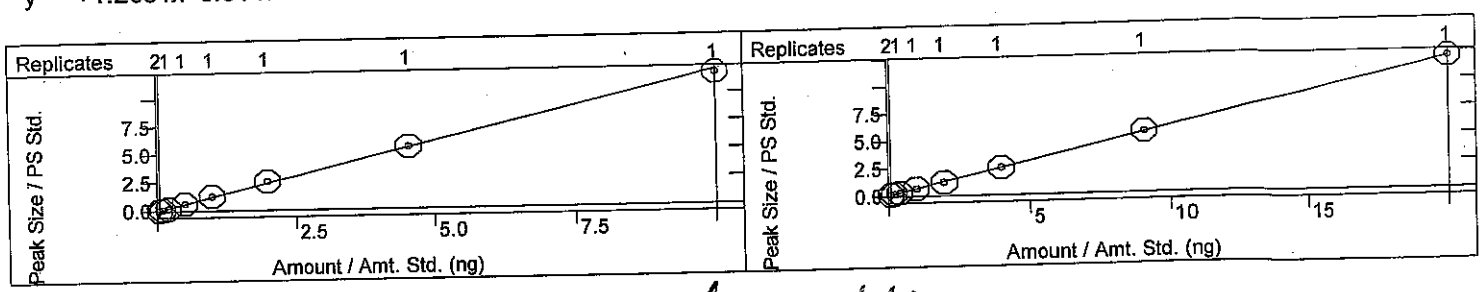
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.81%, Coeff. Det.(r2): 0.999731
y = +1.0957x -0.0277

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 6.853%, Coeff. Det.(r2): 0.999583
y = +0.8575x +0.0061



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.10%, Coeff. Det.(r2): 0.999485
y = +1.2061x -0.0147

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 48.13%, Coeff. Det.(r2): 0.999943
y = +0.5952x +0.0889



JDB 8/7/8/14

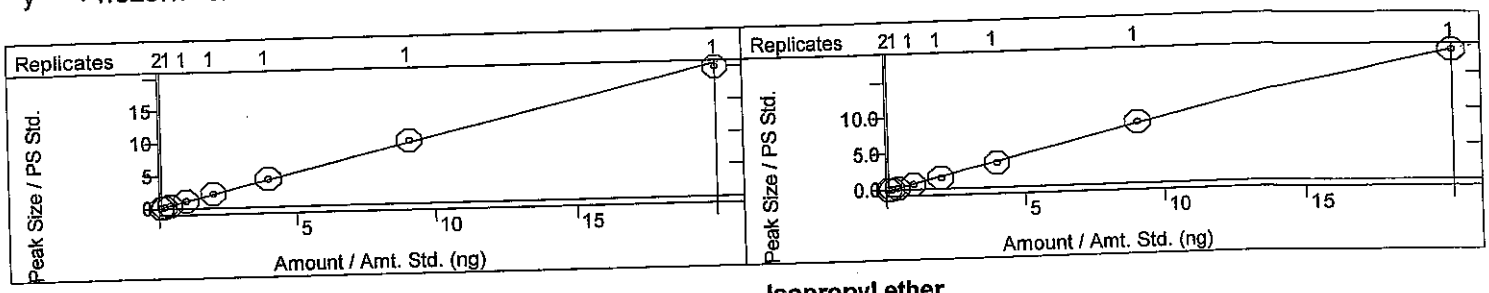
Calibration Curves Report

AK 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX
Resp. Fact. RSD: 7.131%, Coeff. Det.(r2): 0.999176
y = +1.0287x +0.0335

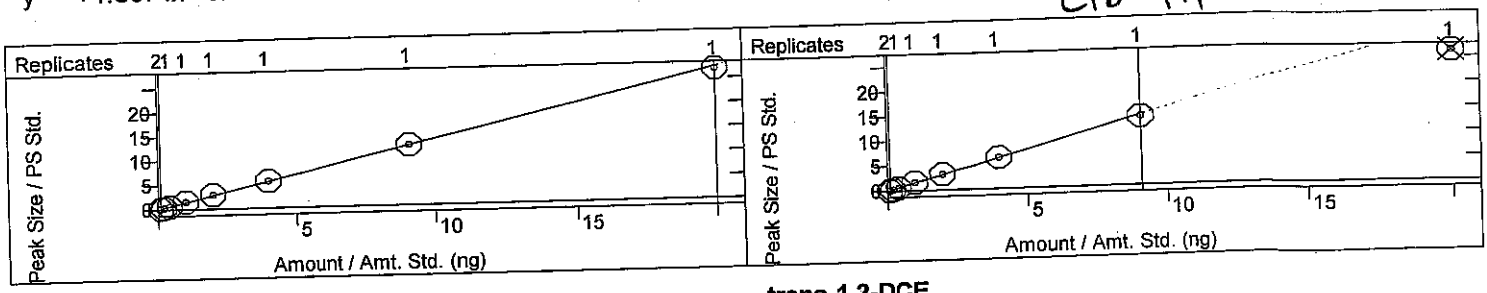
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 38.88%, Coeff. Det.(r2): 0.999486
y = -0.0023x2 +0.9662x -0.2083



Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.752%, Coeff. Det.(r2): 0.999833
y = +1.3674x +0.0360

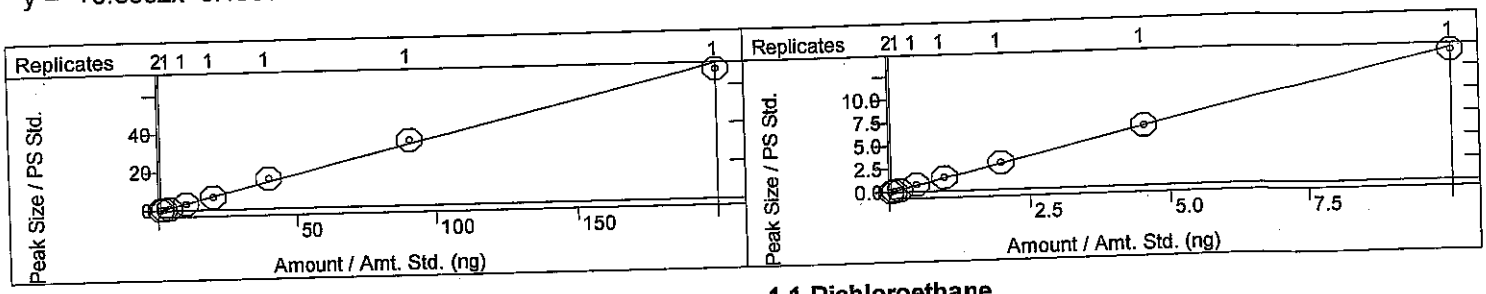
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.31%, Coeff. Det.(r2): 0.999564
y = +1.5679x -0.0283

CPD 7-7



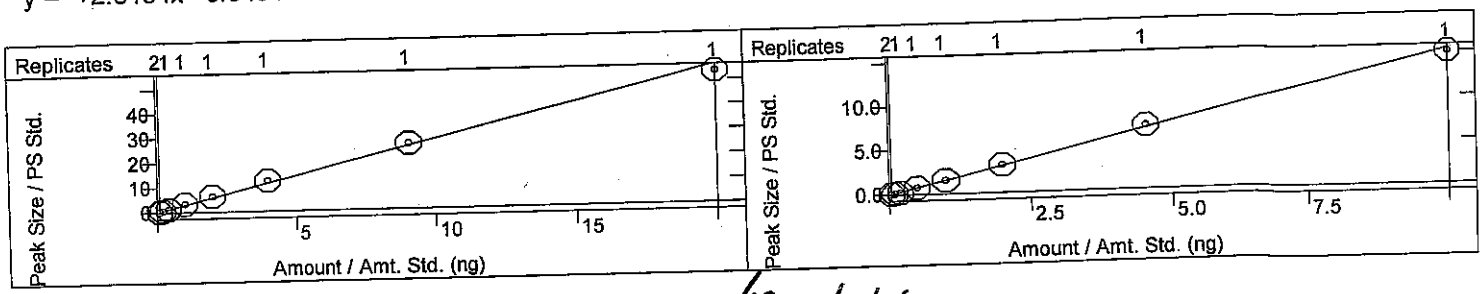
tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.09%, Coeff. Det.(r2): 0.996828
y = +0.3582x -0.1388

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.97%, Coeff. Det.(r2): 0.999762
y = +1.4368x -0.0154



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.23%, Coeff. Det.(r2): 0.997968
y = +2.8164x +0.0491

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 20.97%, Coeff. Det.(r2): 0.999182
y = +1.5382x -0.0369



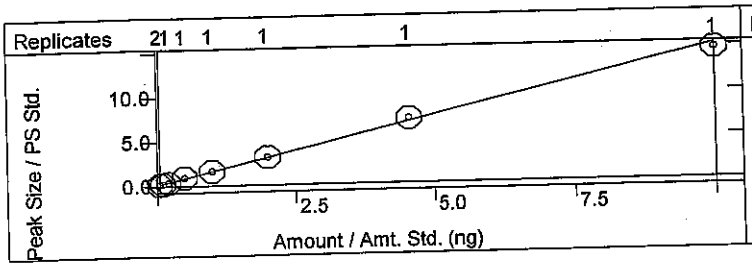
KB 7/8/14

Calibration Curves Report

Rt 7.7.14

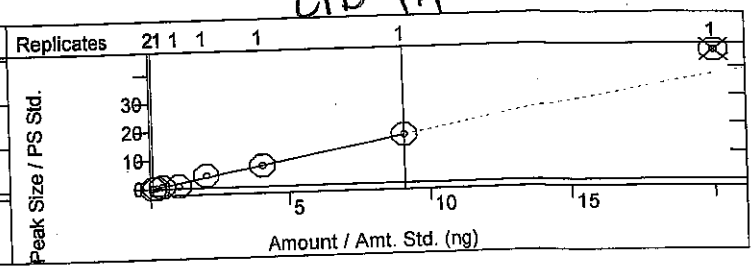
Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 38.16%, Coeff. Det.(r2): 0.998614
y = +1.5099x +0.0952

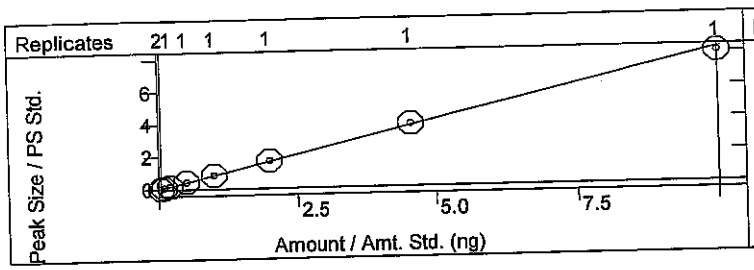


Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.88%, Coeff. Det.(r2): 0.994379
y = +1.8662x -0.0887

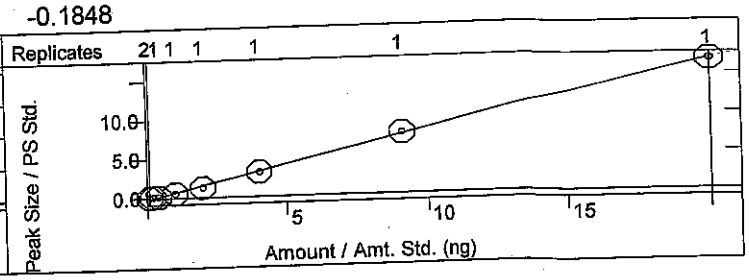
CPD f.f



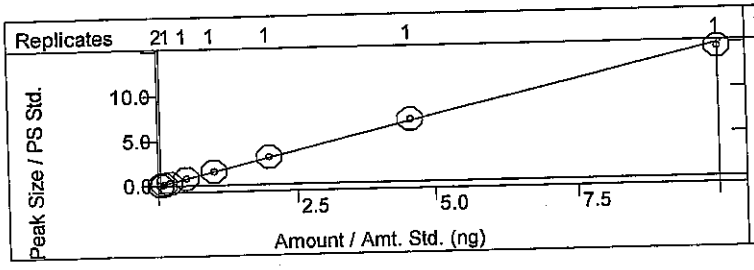
2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.292%, Coeff. Det.(r2): 0.999418
y = +0.8266x +0.0147



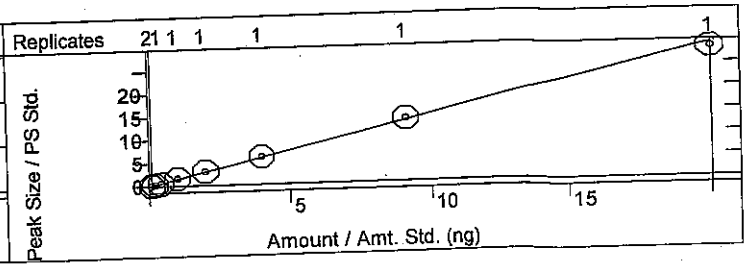
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 19.39%, Coeff. Det.(r2): 0.999230
y = -9.1835e-4x2 +0.8680x
-0.1848



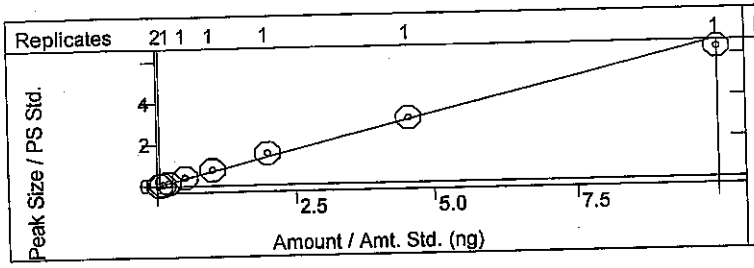
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.673%, Coeff. Det.(r2): 0.999353
y = +1.4916x +0.0117



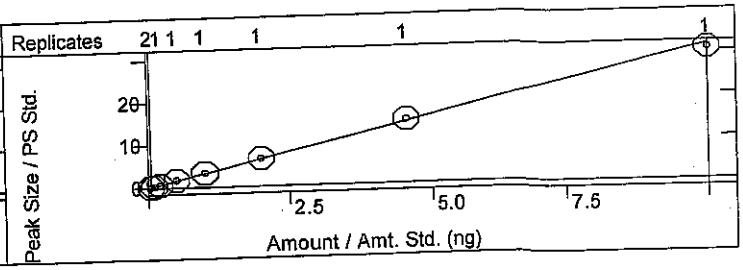
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.872%, Coeff. Det.(r2): 0.999253
y = +1.4597x +0.0334



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.562%, Coeff. Det.(r2): 0.997501
y = +0.6685x +0.0133



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.316%, Coeff. Det.(r2): 0.999236
y = +3.1627x +0.0235



JNB 7/8/14

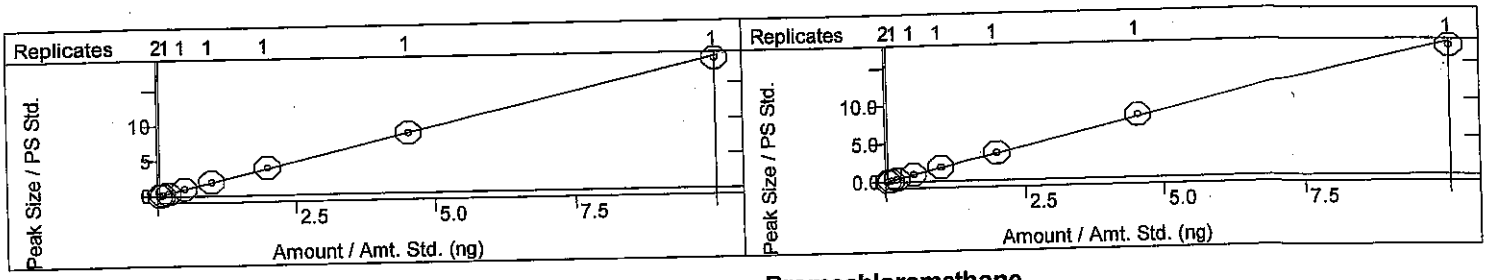
Calibration Curves Report

RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

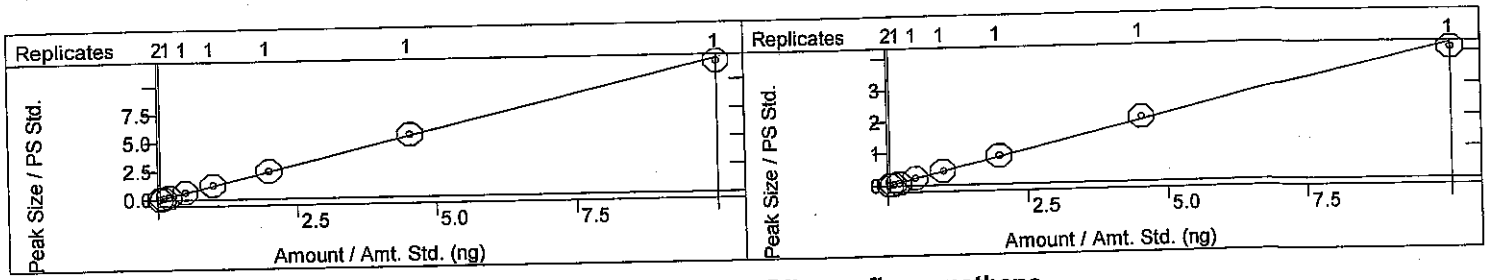
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.166%, Coeff. Det.(r2): 0.999811
y = +1.8842x -0.0012

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.334%, Coeff. Det.(r2): 0.999184
y = +1.7615x +0.0212



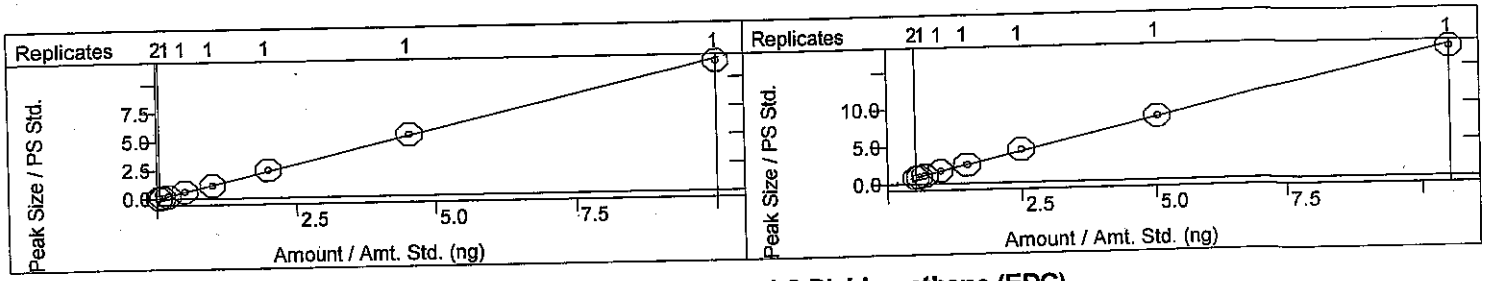
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.107%, Coeff. Det.(r2): 0.999574
y = +1.1890x +0.0042

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.10%, Coeff. Det.(r2): 0.998594
y = +0.4258x +0.0064



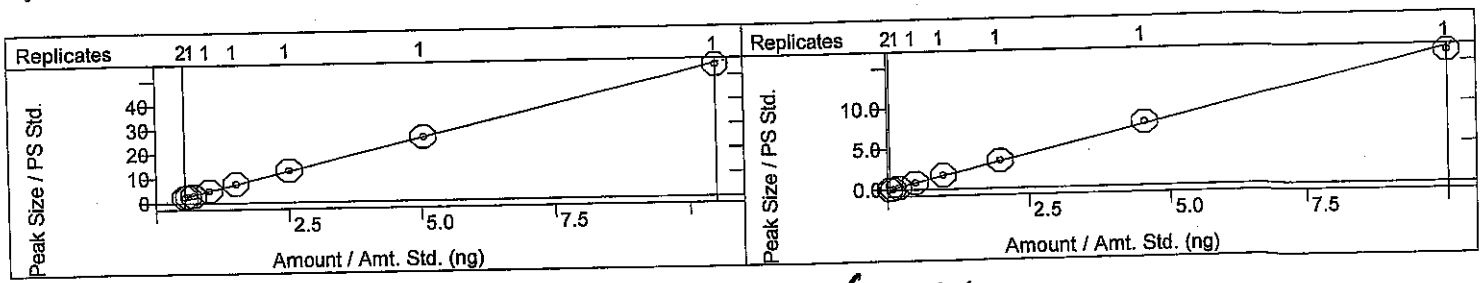
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.974%, Coeff. Det.(r2): 0.999614
y = +1.1636x +0.0077

Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.480%, Coeff. Det.(r2): 0.999539
y = +1.6879x -0.0061



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.038%, Coeff. Det.(r2): 0.999815
y = +5.2558x -0.4300

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.64%, Coeff. Det.(r2): 0.999077
y = +1.6725x -0.0246



JB 7/8/14

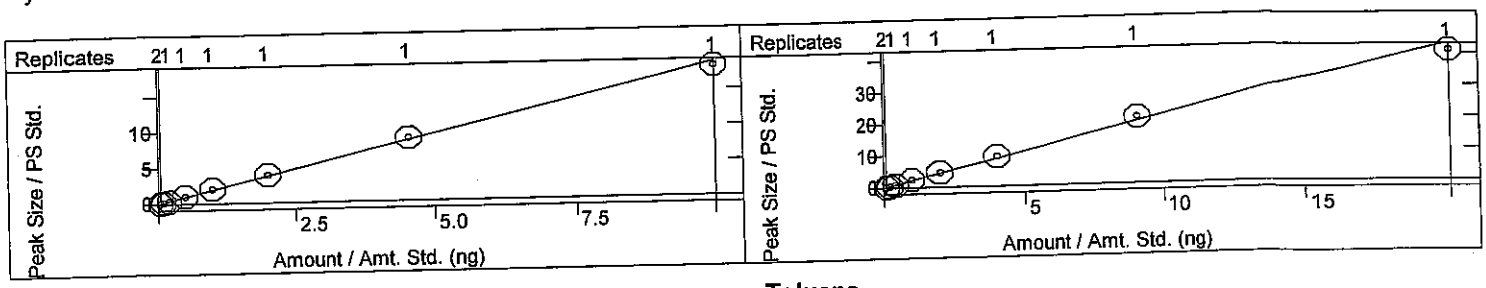
Calibration Curves Report

4-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

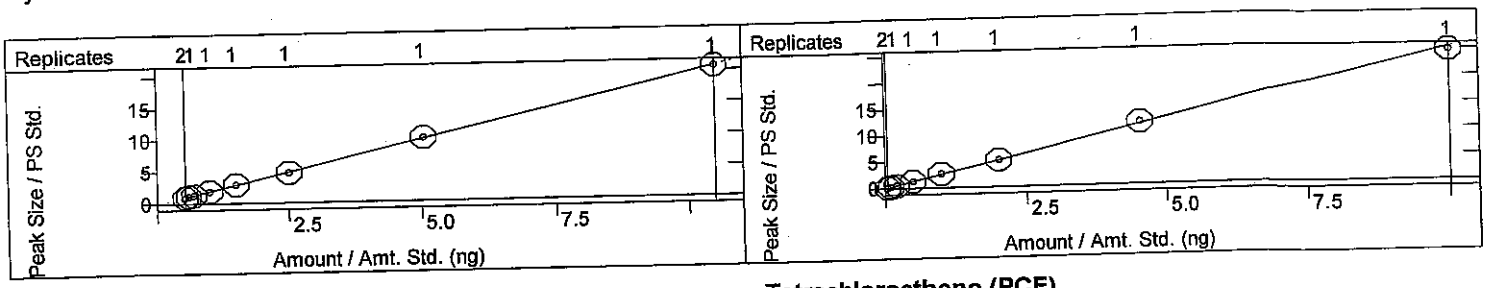
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.42%, Coeff. Det.(r2): 0.999114
y = +1.8907x -0.0218

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.51%, Coeff. Det.(r2): 0.996758
y = +2.1694x -0.0270



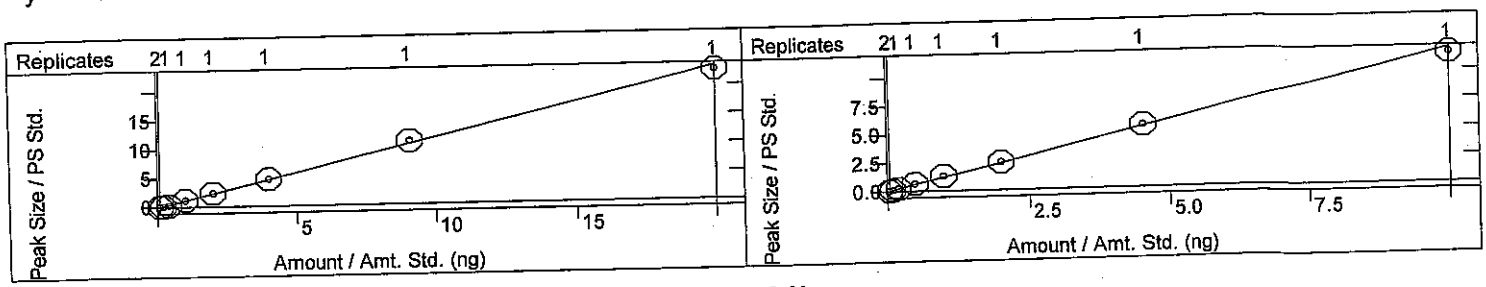
Toluene-d8
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.575%, Coeff. Det.(r2): 0.999892
y = +1.9789x -0.0769

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.666%, Coeff. Det.(r2): 0.999416
y = +2.5291x +0.0321



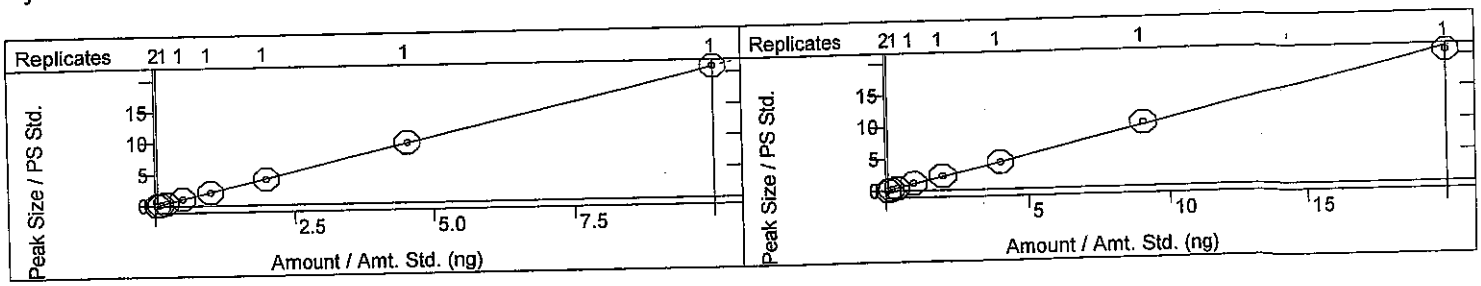
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 26.60%, Coeff. Det.(r2): 0.998783
y = +1.1680x -0.0614

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.094%, Coeff. Det.(r2): 0.999194
y = +1.1848x +0.0213



cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.021%, Coeff. Det.(r2): 0.999953
y = +2.0904x +0.0091

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.74%, Coeff. Det.(r2): 0.999182
y = +1.0587x +0.0018



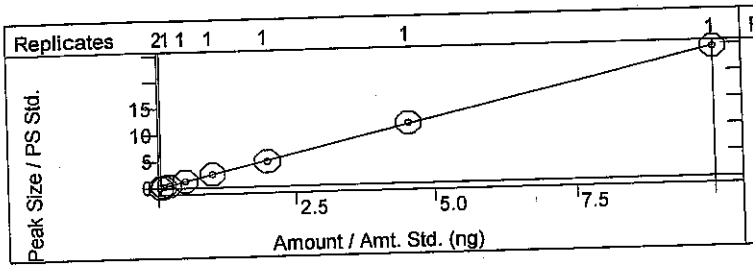
JNB 7/8/14

Calibration Curves Report

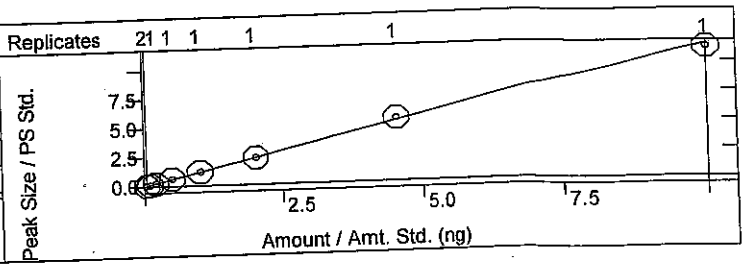
RA 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

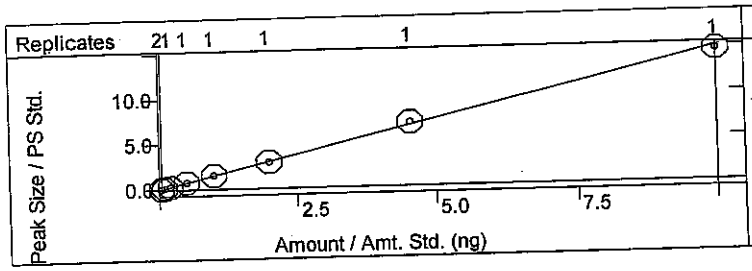
Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.873%, Coeff. Det.(r2): 0.999823
y = +2.4561x -0.0033



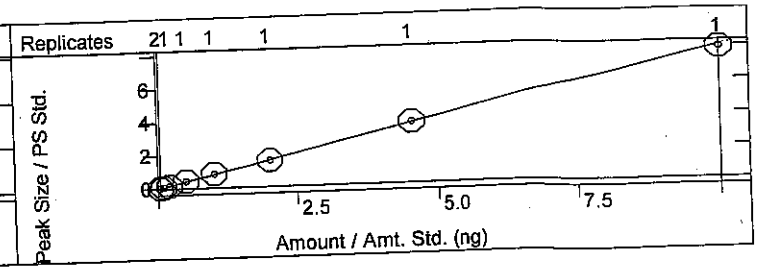
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.106%, Coeff. Det.(r2): 0.999202
y = +1.1480x +0.0074



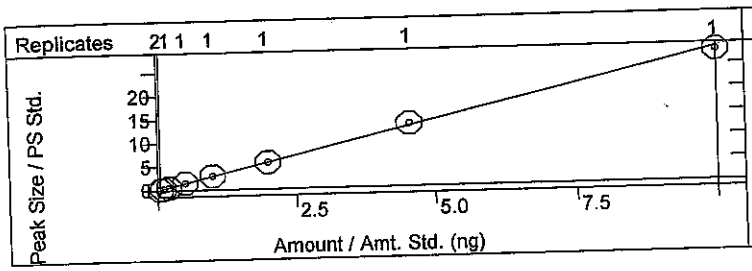
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.303%, Coeff. Det.(r2): 0.999166
y = +1.4886x +0.0127



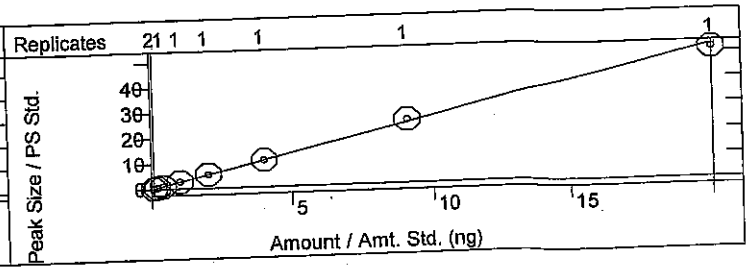
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.417%, Coeff. Det.(r2): 0.999834
y = +0.8020x +0.0076



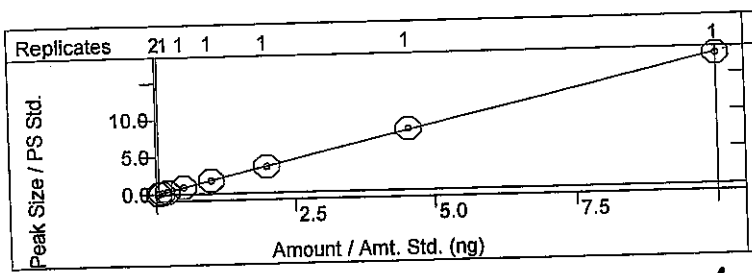
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.320%, Coeff. Det.(r2): 0.999407
y = +2.8407x +0.0298



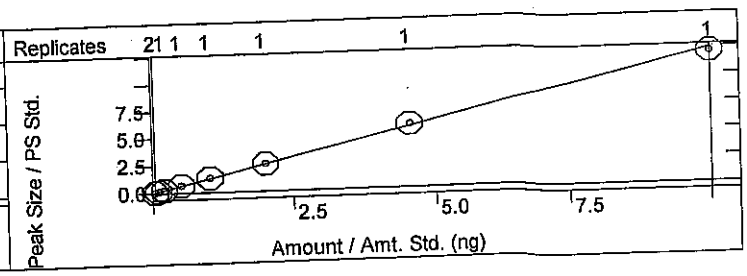
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.069%, Coeff. Det.(r2): 0.999152
y = +2.6501x +0.0436



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.758%, Coeff. Det.(r2): 0.999853
y = +1.7692x -0.0110



Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.988%, Coeff. Det.(r2): 0.999238
y = +1.2355x +0.0126



✓ SB 7/8/14

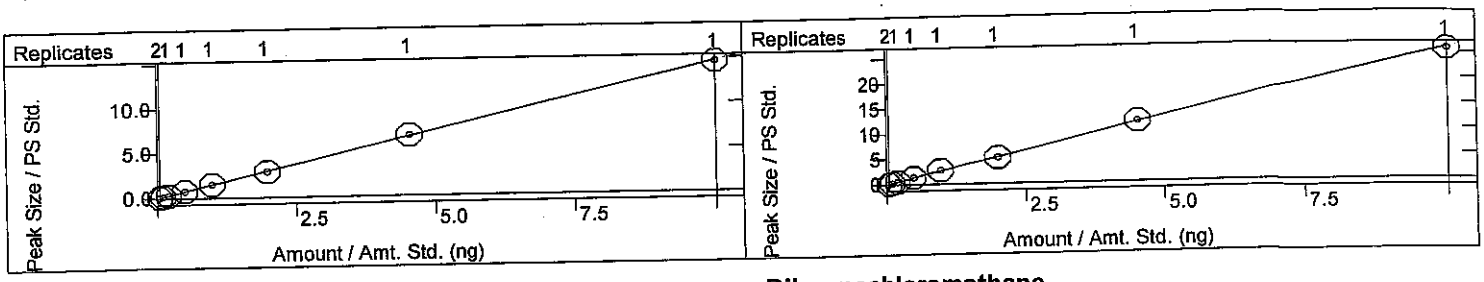
Calibration Curves Report

QA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

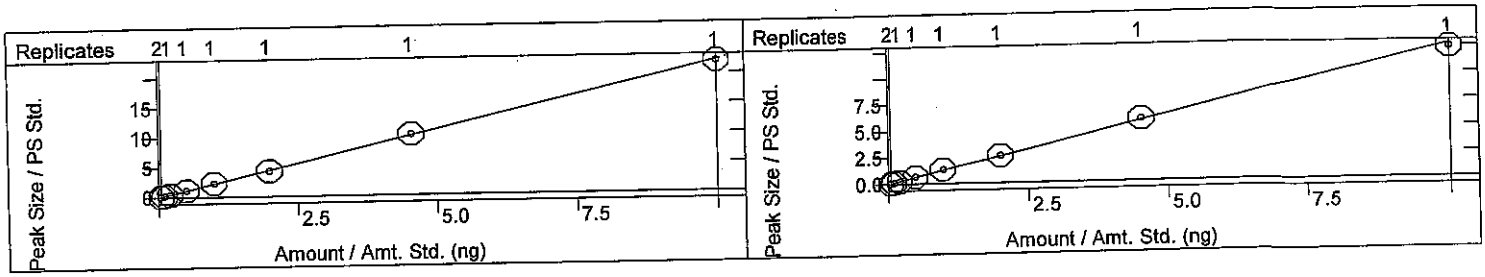
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.493%, Coeff. Det.(r2): 0.999876
y = +1.4682x +0.0052

o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.960%, Coeff. Det.(r2): 0.999883
y = +2.6077x +0.0157



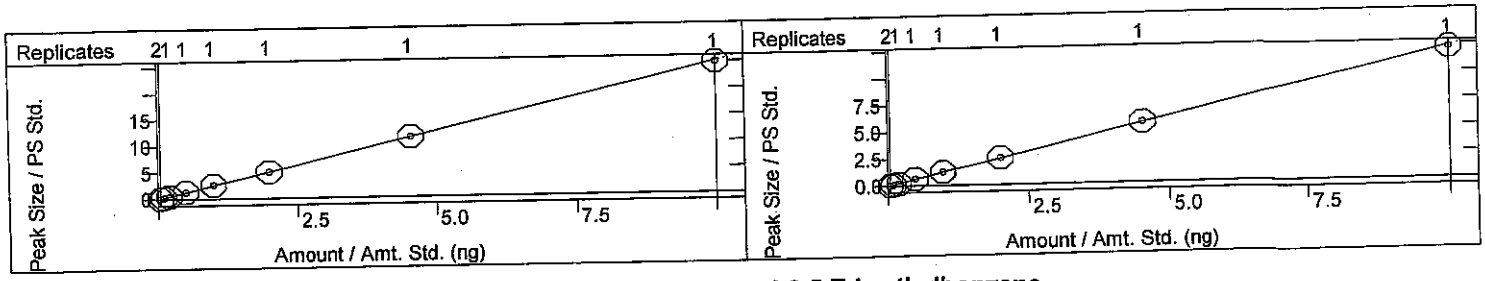
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.169%, Coeff. Det.(r2): 0.999816
y = +2.2118x +0.0143

Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.284%, Coeff. Det.(r2): 0.999461
y = +1.2678x +0.0090



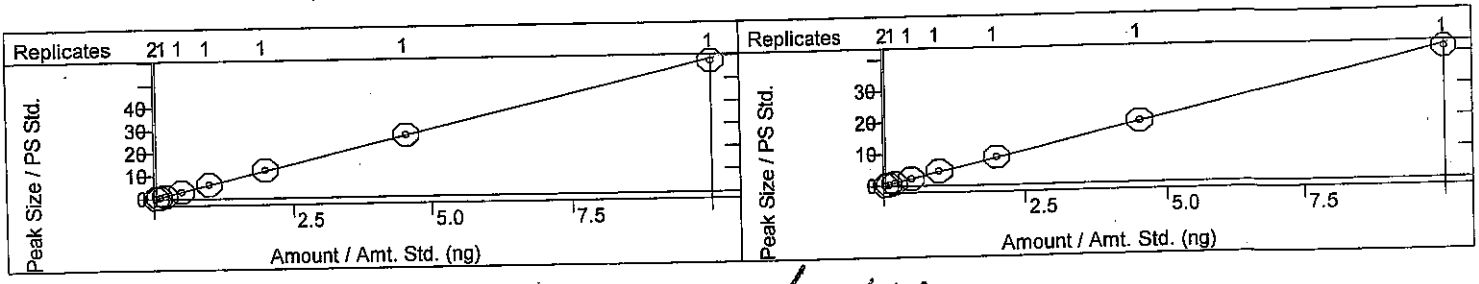
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.548%, Coeff. Det.(r2): 0.999960
y = +2.5111x +0.0196

Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.539%, Coeff. Det.(r2): 0.999905
y = +1.2320x +0.0065



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.246%, Coeff. Det.(r2): 0.999746
y = +5.8721x +0.0316

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.001%, Coeff. Det.(r2): 0.999766
y = +4.2181x +0.0426



JNB 7/8/14

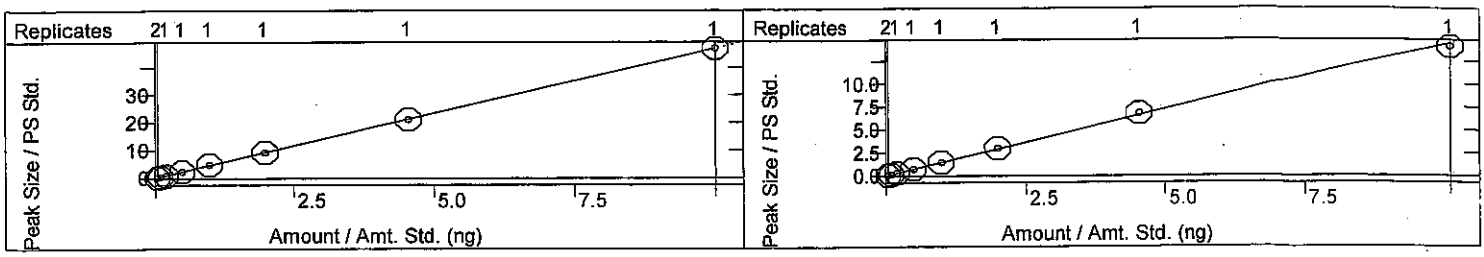
Calibration Curves Report

RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

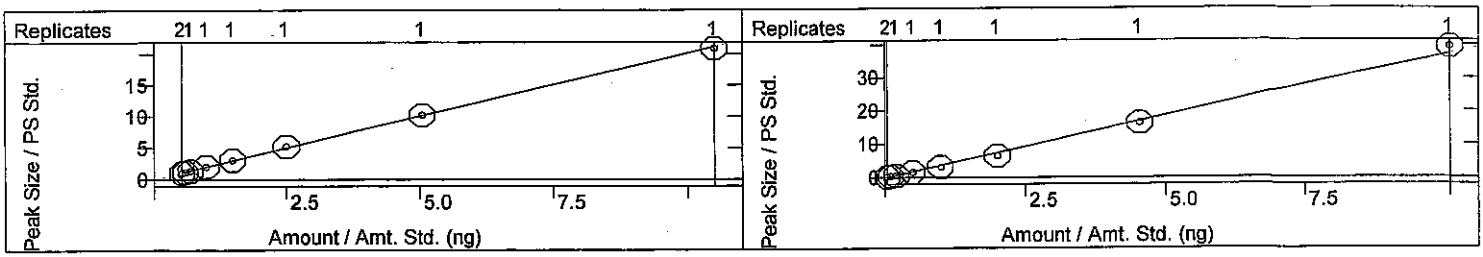
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.626%, Coeff. Det.(r2): 0.999964
y = +4.6917x +0.0371

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.182%, Coeff. Det.(r2): 0.999268
y = +1.4485x +0.0123



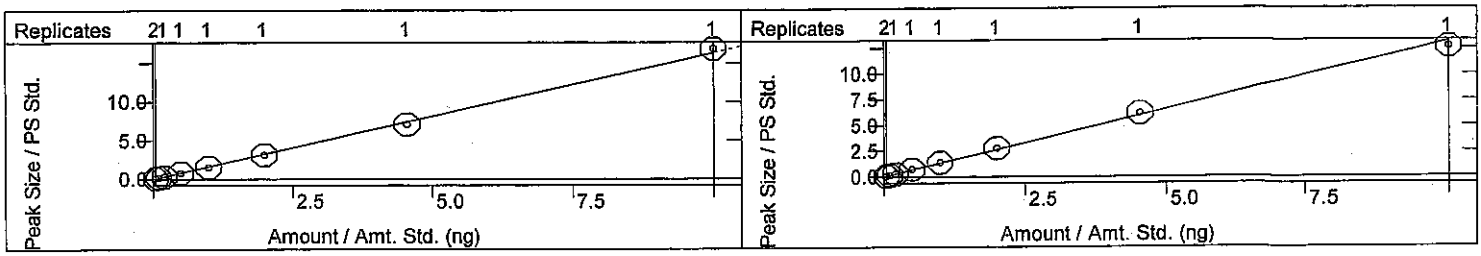
4-Bromofluorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.526%, Coeff. Det.(r2): 0.999779
y = +2.0145x -0.0044

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.018%, Coeff. Det.(r2): 0.997850
y = +3.7335x -0.0747



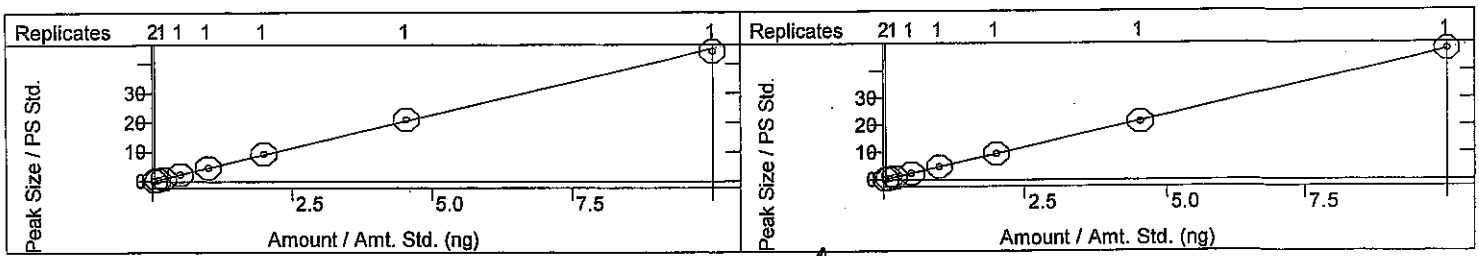
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.788%, Coeff. Det.(r2): 0.998983
y = +1.6325x -0.0104

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.209%, Coeff. Det.(r2): 0.998637
y = +1.3112x +0.0160



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.684%, Coeff. Det.(r2): 0.999556
y = +4.5034x +0.0255

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.100%, Coeff. Det.(r2): 0.999949
y = +4.7488x +6.6064e-4



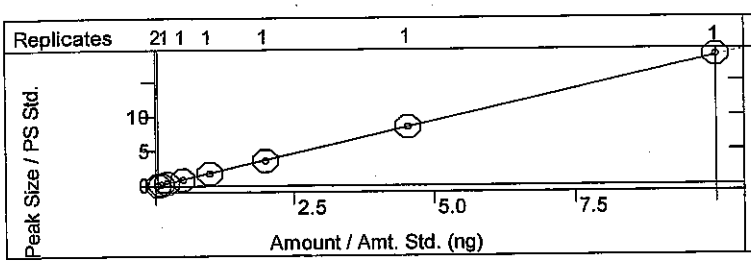
✓ NB 7/8/14

Calibration Curves Report

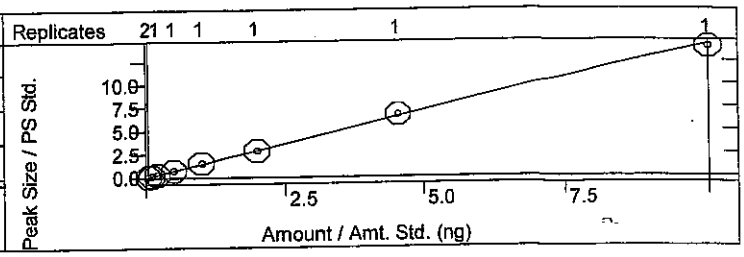
RA 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

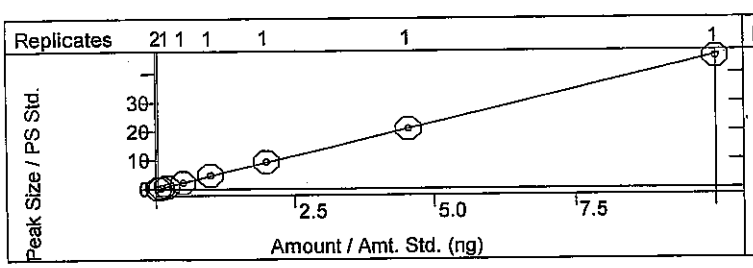
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.942%, Coeff. Det.(r2): 0.999930
y = +1.8526x -0.0114



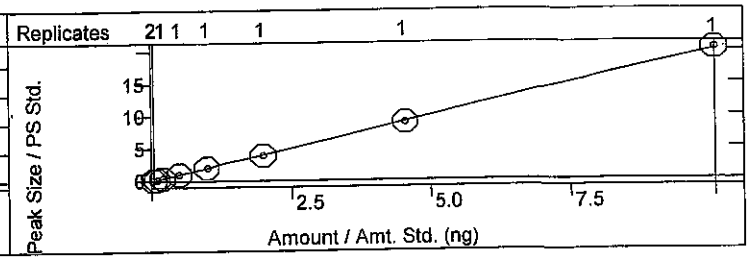
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.982%, Coeff. Det.(r2): 0.999474
y = +1.4282x +0.0107



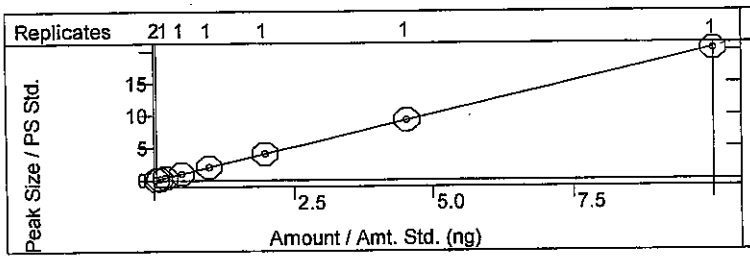
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.402%, Coeff. Det.(r2): 0.999930
y = +4.5956x -0.0092



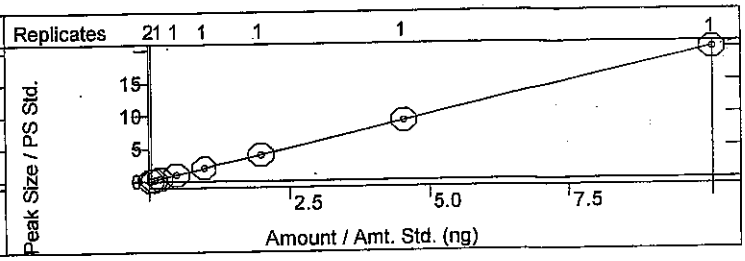
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.245%, Coeff. Det.(r2): 0.999835
y = +2.0082x -0.0142



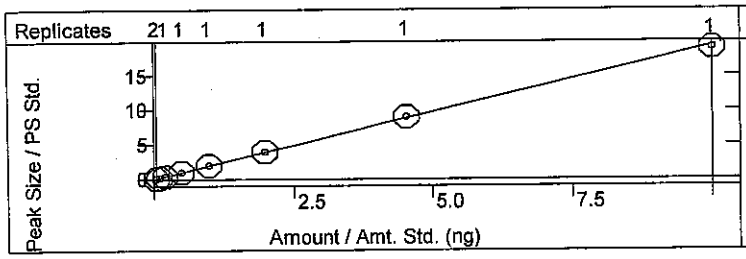
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.472%, Coeff. Det.(r2): 0.999976
y = +2.0363x +0.0119



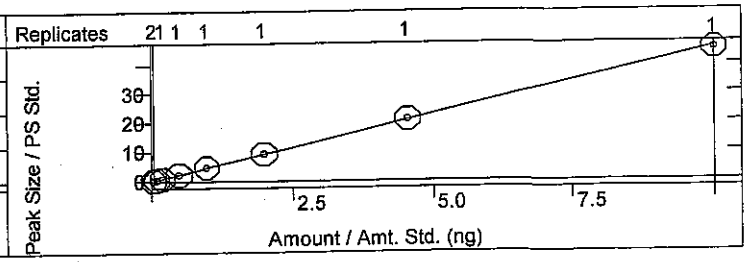
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.817%, Coeff. Det.(r2): 0.999992
y = +1.9980x +0.0081



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.181%, Coeff. Det.(r2): 0.999739
y = +1.9330x +0.0160



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.664%, Coeff. Det.(r2): 0.999876
y = +4.5585x +0.0167



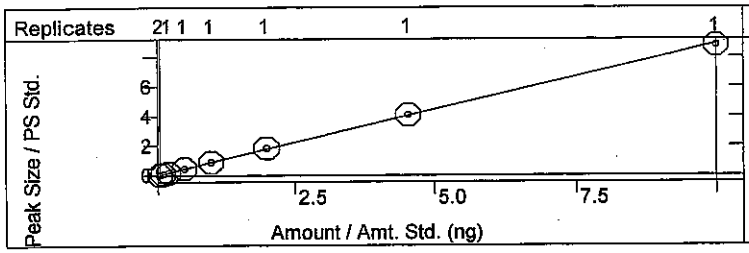
DB 7/8/14

Calibration Curves Report

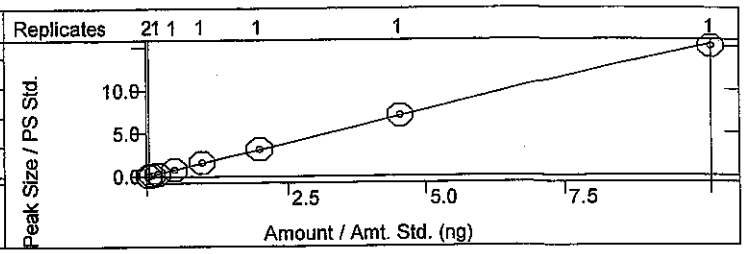
RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

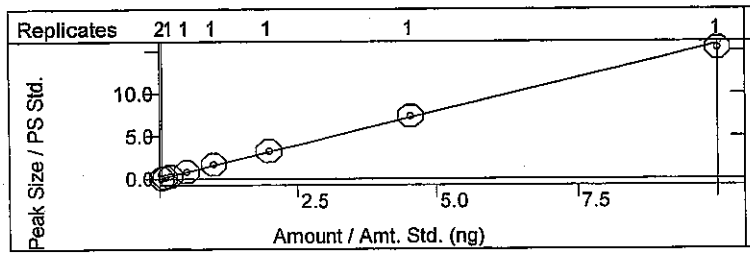
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.295%, Coeff. Det.(r2): 0.999841
y = +0.8887x +0.0066



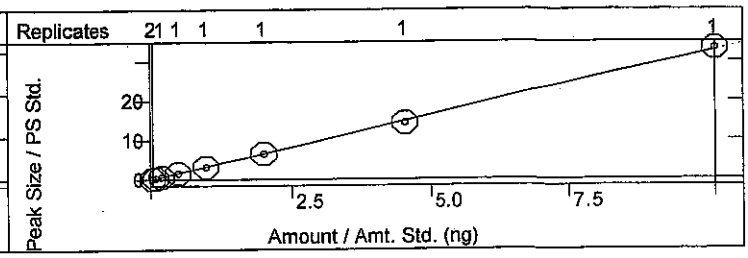
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.226%, Coeff. Det.(r2): 0.999790
y = +1.5336x +0.0044



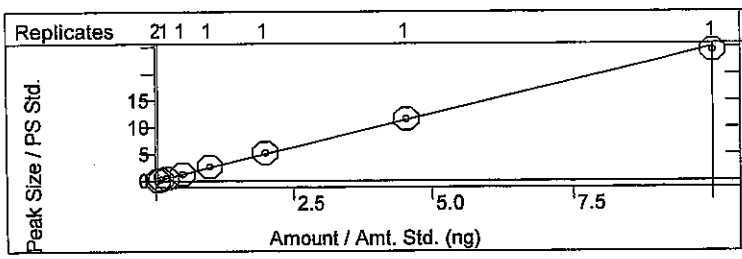
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.461%, Coeff. Det.(r2): 0.999348
y = +1.5806x +0.0115



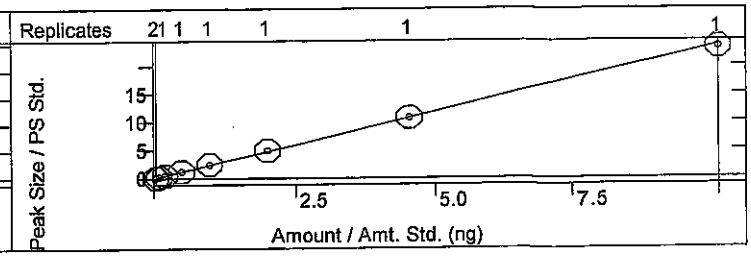
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.711%, Coeff. Det.(r2): 0.999549
y = +3.2685x -0.0144



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.498%, Coeff. Det.(r2): 0.999508
y = +2.4975x +0.0145



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.205%, Coeff. Det.(r2): 0.999820
y = +2.3651x +0.0191



7/8/14

arian Star Workstation - Generic SampleList Tue Jul 29 08:08:00 2014

ampleList: C:\VarianWS\072814v.smp

reated: Mon Jul 28 08:27:13 2014
odified: Tue Jul 29 08:07:55 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0486	
2	5mL-rb	none tune @ 9:11
3	50ng ccv	below
	Notes V-54-0445	
4	100ng lcs	below
	Notes V-11-8058	
5	vsb Deli	below
	Notes 7/21/14-7/28/14 RA	
6	rtm	below
	Notes V-18-1994	
7	2.5ng ccv GRO	below
	Notes V-18-2047	
8	2.5ng lcs GRO	below
	Notes V-18-2036	
9	50ng ccvb	below @ 12:28
	Notes V-54-0447	
10	100ngLcsb200ngAnnex	below
	Notes V-11-8058/V-11-8034	
11	vsb Fridge	below
	Notes 7/21/14-7/28/14 RA	
12	1407C15-001a	below
	Notes x100-1uL PB14441 Oil	
13	b2	none tune @ 2:20
14	2.5ng ccvb GRO	below @ 2:48
	Notes V-18-2047	
15	2.5ng lcsb GRO	below
	Notes V-18-2036	
16	b3	none
17	1407C55-001a	below
	Notes x1-100uL MSGRO	
18	1407C55-001ams	below
	Notes x1-100uL MSGRO V-18-2036	
19	1407C55-001amsd	below
	Notes x1-100uL MSGRO V-18-2036	
20	1407C55-002a	below
	Notes x1-100uL MSGRO	
21	1407C55-003a	below
	Notes x1-100uL MSGRO	
22	1407C55-004a	below
	Notes x1-100uL MSGRO	
23	1407C55-005a	below
	Notes x1-100uL MSGRO	
24	1407C55-006a	below
	Notes x1-100uL MSGRO	
25	1407C55-007a	below @ 7:56
	Notes x1-100uL MSGRO FB	
26	LCS-14442	below
	Notes V-11-8058	
27	MB-14442	below
	Notes 4681	
28	1407C46-001a	below
	Notes x1-100uL	
29	1407C46-002a	below
	Notes x1-100uL	
30	1407C46-002ams	below
	Notes x1-100uL V-11-8058	
31	1407C46-002amsd	below
	Notes x1-100uL V-11-8058	
32 hand calc	1407C75-001a	below
	Notes x20-5uL MeOH	
33	1407C75-002a	below
	Notes x1-100uL MeOH	
34	1407C75-003a	below @ 12:07
	Notes x1-100uL MeOH	
35	tt	none

Loaded By: KSH 7/28/14
1st Review By: KSH 7/29/14
QA'd By: JWB 7/30/14

```
                Notes  V-54-0447
37              vsb Deli      below  tne @ 1:31
                Notes  7/21/14-7/28/14 RA
38          1404C75-004a      below
                Notes  x1-100uL MeOH
39          1404C75-005a      below
                Notes  x1-100uL MeOH
40          1404C75-006a      below   r1,b
                Notes  x10-10uL MeOH
41          1404C75-007a      below   r20
                Notes  x1-100uL MeOH
42          1404C75-008a      below   r1,b
                Notes  x10-10uL MeOH
43          1404C75-009a      below   r1
                Notes  x10-10uL MeOH
44          1407C77-001a      below
                Notes  x2-2.5mL DDS
45       1407C77-001a ms      below
                Notes  x2-2.5mL DDS V-11-8058
46      1407C77-001a msd      below
                Notes  x2-2.5mL DDS V-11-8058
47          1407C77-002a      below
                Notes  x2-2.5mL DDS
48          1407C77-003a      below
                Notes  x1-5mL
49          1407C77-004a      below
                Notes  x2-2.5mL DDS
50          1407C77-005a      below
                Notes  x2-2.5mL DDS
51          1407C77-006a      below
                Notes  x2-2.5mL DDS
52          1407C77-007a      below @ 8:29
                Notes  x1-5mL TB
53

Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\072814v.rcl.
```

Loaded By: KSH 7/28/14
1st Review By: KSH 7/29/14
QA'd By: [illegible] 7/30/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\072814v\50ng ccvb 7-28-2014.SMS Lab Sample ID: 50ng ccvb

Instrument ID: VAL Date Analyzed: 7/28/2014 Time Analyzed: 12:28

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	52115	7.98	75247	14.29	42752	17.90						
UPPER LIMIT	104230	8.48	150494	14.79	85504	18.40						
LOWER LIMIT	26058	7.48	37624	13.79	21376	17.40						
EPA SAMPLE NO												
b1 7-28-20	76190	7.98	95080	14.29	49081	17.90						
5mL-rb 7-2	52926	7.98	74809	14.29	41887	17.90						
50ng ccv 7	54773	7.98	78930	14.29	45195	17.90						
100ng lcs	50245	7.98	72800	14.29	40315	17.89						
vsb Deli 7	51454	7.98	73327	14.29	42114	17.89						
rtm 7-28-2	49779	7.98	69288	14.29	40561	17.90						
2.5ng ccv	52171	7.98	73724	14.29	42738	17.89						
2.5ng lcs	51163	7.98	74382	14.30	41497	17.90						
100ngLcsb2	48393	7.98	72574	14.29	39474	17.90						
vsb Fridge	51119	7.98	72919	14.29	40804	17.90						
1407C15-00	52295	7.98	76248	14.29	42550	17.90						
b2 7-28-20	53438	7.99	75773	14.29	42107	17.90						
2.5ng ccvb	52132	7.99	72696	14.29	41833	17.90						
2.5ng lcsb	53753	7.99	75474	14.30	43308	17.91						
b3 7-28-20	50820	7.99	72244	14.30	40893	17.90						
1407C55-00	46286	7.98	68616	14.30	45767	17.90						

WB 7/30/14

KSH 7/29/14

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407C55-00	50160	7.98	68455	14.30	45301	17.90						
1407C55-00	49750	7.99	65500	14.30	45245	17.91						
1407C55-00	49496	7.99	64925	14.31	43925	17.91						
1407C55-00	47279	7.99	63340	14.30	43654	17.91						
1407C55-00	48490	7.98	64567	14.30	44414	17.91						
1407C55-00	47992	7.99	64877	14.30	44528	17.90						
1407C55-00	47773	7.98	65153	14.30	43219	17.91						
1407C55-00	48590	7.98	66349	14.30	43808	17.90						
LCS-14442	50576	7.98	69415	14.30	45332	17.90						
MB-14442 7	49714	7.98	70895	14.30	46786	17.90						
1407C46-00	48469	7.98	65806	14.30	46223	17.90						
1407C46-00	49334	7.98	69753	14.30	46872	17.90						
1407C46-00	49659	7.98	71374	14.31	45077	17.91						
1407C46-00	49855	7.98	67998	14.30	44947	17.90						
1407C75-00	53321	7.98	77225	14.30	42621	17.91						
1407C75-00	49878	7.98	77448	14.30	49504	17.90						
1407C75-00	50748	7.98	77278	14.30	50087	17.90						
tt 7-29-20	51945	7.98	74792	14.29	42078	17.90						
75ng ccv 7	49915	7.98	73853	14.30	41291	17.90						
vcb2 7-29-	56247	8.01	81711	14.31	44479	17.91						
1404C75-00	51051	7.98	71572	14.30	43456	17.91						
1404C75-00	46310	7.98	68878	14.30	44820	17.90						
1404C75-00	53967	7.98	76371	14.30	43224	17.90						
1404C75-00	52032	7.98	80831	14.30	48890 D	17.90 D						
1404C75-00	53248	7.98	74824	14.30	44430	17.90						
1404C75-00	53498	7.98	74367	14.30	43202	17.90						
1407C77-00	49523	7.99	70486	14.30	40646	17.90						
1407C77-00	47455	7.98	70062	14.30	39739	17.90						
1407C77-00	49339	7.98	72148	14.30	40220	17.90						
1407C77-00	48115	7.98	71157	14.30	39864	17.90						
1407C77-00	47035	7.98	70434	14.30	40253	17.90						
1407C77-00	50474	7.98	71729	14.29	40112	17.90						
1407C77-00	48707	7.98	69460	14.30	39232	17.90						
1407C77-00	47564	7.98	69681	14.30	39273	17.90						

7/29/2014 9:06

Internal Standard And RT Summary

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407C77-00	47924	7.99	68476	14.30	39110	17.90						

KJH 7/29/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

✓ WB 7/30/14

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): iws\data\pending\070514v 8260 crv\100ng crv 7-5-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
50ng ccvb	52115	7.98	75247	14.29	42752	17.90						

KJH 7/29/14

JB 7/30/14

IS1 = Pentafluorobenzene

IS2 = Benzene-d5-, chloro-

IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/28/2014 Time: 12:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/5/2014 7/5/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:12 20:12

Initial Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Lab File ID: c:\varianws\data\50ng ccvb 7-28-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.043	0.100	50.00	49.41	1.2	30.0	PASS	PASS
Chloromethane	0.477	0.100	50.00	37.19	25.6	30.0	PASS	PASS
Vinyl chloride	1.520	0.100	50.00	44.96	10.1	20.0	PASS	PASS
Chloroethane	0.242	0.100	50.00	48.38	3.2	30.0	PASS	PASS
Bromomethane	1.367	0.100	50.00	63.63	-27.3	30.0	PASS	PASS
Trichlorofluoromethane	0.903	0.100	50.00	52.27	-4.5	30.0	PASS	PASS
1,1-Dichloroethene	1.241	0.100	50.00	52.07	-4.1	20.0	PASS	PASS
Acetone	0.530	0.100	100.00	81.58	18.4	40.0	PASS	PASS
Carbon disulfide	1.131	0.100	100.00	108.35	-8.4	40.0	PASS	PASS
Iodomethane	0.294	0.100	100.00	41.29	58.7	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.429	0.100	100.00	103.21	-3.2	30.0	PASS	PASS
Isopropyl ether	1.580	0.100	100.00	101.69	-1.7	40.0	PASS	PASS
tert-Butyl alcohol	0.340	0.100	1000.00	967.34	3.3	40.0	PASS	PASS
trans-1,2-DCE	1.439	0.100	50.00	50.61	-1.2	30.0	PASS	PASS
tert-Butyl ethyl ether	3.210	0.100	100.00	113.12	-13.1	40.0	PASS	PASS
1,1-Dichloroethane	1.464	0.100	50.00	48.78	2.4	30.0	PASS	PASS
Methylene Chloride	1.542	0.100	50.00	47.90	4.2	30.0	PASS	PASS
Vinyl Acetate	2.201	0.100	100.00	120.31	-20.3	40.0	PASS	PASS
2,2-Dichloropropane	0.906	0.100	50.00	53.93	-7.9	30.0	PASS	PASS
2-Butanone	0.565	0.100	100.00	75.85	24.2	40.0	PASS	PASS
1,1,1-Trichloroethane	1.570	0.100	50.00	52.22	-4.4	30.0	PASS	PASS
tert-Amyl methyl ether	1.567	0.100	100.00	106.19	-6.2	40.0	PASS	PASS
1,1-Dichloropropene	0.743	0.100	50.00	54.60	-9.2	30.0	PASS	PASS
Carbon Tetrachloride	3.191	0.100	50.00	50.07	-0.1	30.0	PASS	PASS
cis-1,2-DCE	2.044	0.100	50.00	54.26	-8.5	30.0	PASS	PASS
Benzene	1.863	0.100	50.00	52.29	-4.6	30.0	PASS	PASS
Chloroform	1.274	0.100	50.00	53.39	-6.8	20.0	PASS	PASS
Bromochloromethane	0.497	0.100	50.00	57.58	-15.2	30.0	PASS	PASS
Trichloroethene (TCE)	1.234	0.100	50.00	52.70	-5.4	30.0	PASS	PASS
Dibromofluoromethane	1.572	0.100	50.00	46.74	6.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.394	0.100	50.00	45.89	8.2	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.745	0.100	50.00	52.90	-5.8	30.0	PASS	PASS
1,2-Dichloropropane	1.947	0.100	50.00	52.07	-4.1	20.0	PASS	PASS
4-Methyl-2-pentanone	2.121	0.100	100.00	98.38	1.6	40.0	PASS	PASS
Toluene-d8	1.762	0.100	50.00	46.46	7.1	30.0	PASS	PASS

DNR

KJH 7/29/14

✓ 10837/30/14

Analyst: KJH

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.767	0.100	50.00	54.07	-8.1	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.736	0.100	100.00	65.62	34.4	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.361	0.100	50.00	56.55	-13.1	30.0	PASS	PASS
cis-1,3-dichloropropene	2.105	0.100	50.00	50.14	-0.3	30.0	PASS	PASS
2-Hexanone	1.031	0.100	100.00	97.25	2.7	40.0	PASS	PASS
Bromodichloromethane	2.550	0.100	50.00	51.97	-3.9	30.0	PASS	PASS
Dibromomethane	1.252	0.100	50.00	54.20	-8.4	30.0	PASS	PASS
1,3-Dichloropropane	1.548	0.100	50.00	51.57	-3.1	30.0	PASS	PASS
trans-1,3-dichloropropene	0.838	0.100	50.00	51.77	-3.5	30.0	PASS	PASS
Ethylbenzene	3.094	0.100	50.00	53.93	-7.9	20.0	PASS	PASS
mp-Xylenes	2.791	0.100	100.00	104.48	-4.5	30.0	PASS	PASS
1,1,2-Trichloroethane	1.818	0.100	50.00	51.69	-3.4	30.0	PASS	PASS
Chlorobenzene	1.364	0.300	50.00	54.69	-9.4	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.485	0.100	50.00	50.41	-0.8	30.0	PASS	PASS
o-Xylene	2.814	0.100	50.00	53.66	-7.3	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.394	0.100	50.00	53.79	-7.6	30.0	PASS	PASS
Dibromochloromethane	1.336	0.100	50.00	52.32	-4.6	30.0	PASS	PASS
Isopropylbenzene	2.596	0.100	50.00	51.30	-2.6	30.0	PASS	PASS
Styrene	1.306	0.100	50.00	52.73	-5.5	30.0	PASS	PASS
n-Propylbenzene	6.160	0.100	50.00	52.18	-4.4	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.475	0.100	50.00	52.54	-5.1	30.0	PASS	PASS
tert-Butylbenzene	4.883	0.100	50.00	51.64	-3.3	30.0	PASS	PASS
2-Chlorotoluene	1.537	0.100	50.00	52.64	-5.3	30.0	PASS	PASS
4-Bromofluorobenzene	1.821	0.100	50.00	45.32	9.4	30.0	PASS	PASS
sec-Butylbenzene	3.095	0.100	50.00	42.44	15.1	30.0	PASS	PASS
4-Chlorotoluene	1.573	0.100	50.00	48.49	3.0	30.0	PASS	PASS
Bromobenzene	1.465	0.100	50.00	55.26	-10.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.688	0.100	50.00	51.77	-3.5	30.0	PASS	PASS
4-Isopropyltoluene	4.666	0.100	50.00	49.12	1.8	30.0	PASS	PASS
Bromoform	1.827	0.100	50.00	49.61	0.8	30.0	PASS	PASS
1,2,3-Trichloropropane	1.424	0.100	50.00	49.48	1.0	30.0	PASS	PASS
n-Butylbenzene	4.468	0.100	50.00	48.71	2.6	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.806	0.300	50.00	45.32	9.4	30.0	PASS	PASS
1,3-Dichlorobenzene	2.155	0.100	50.00	52.61	-5.2	30.0	PASS	PASS
1,4-Dichlorobenzene	2.062	0.100	50.00	51.40	-2.8	30.0	PASS	PASS
1,2-Dichlorobenzene	2.076	0.100	50.00	53.30	-6.6	30.0	PASS	PASS
Hexachlorobutadiene	4.233	0.100	50.00	46.25	7.5	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.835	0.100	50.00	46.61	6.8	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.646	0.100	50.00	53.53	-7.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.669	0.100	50.00	52.42	-4.8	30.0	PASS	PASS
Naphthalene	3.042	0.100	50.00	46.75	6.5	30.0	PASS	PASS
2-Methylnaphthalene	2.445	0.100	50.00	48.67	2.7	40.0	PASS	PASS
1-Methylnaphthalene	2.307	0.100	50.00	48.38	3.2	40.0	PASS	PASS

KJH 7/29/14

JDB 7/30/14

Analyst: KJH

****

eneric SampleList Printout - Tue Jul 01 15:49:29 2014

ampleList: C:\AgilentWS\070114m.smp

reated: Tue Jul 01 10:23:21 2014
odified: Tue Jul 01 15:49:26 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	10ppb ccv	below
	Notes V-54-0429	
4	10ppb lcs	below
	Notes V-11-8032	
5	10ppb ccv	below
	Notes V-54-0429	
6	10ppb lcs1	below
	Notes V-11-8032	
7	10ppb ccv3	below
	Notes V-54-0427	
8	10ppb lcs2	below
	Notes V-11-8032	
9	vcb	none
10	b3	none
11	b4	none
12	b5	none rerun @ 4:09
13		
14		
15	0.4ppb 5035 crv	below
	Notes V-54-0432	
16	1ppb 5035 crv	below
	Notes V-54-0432	
17	2ppb 5035 crv	below
	Notes V-54-0432	
18	3ppb 5035 crv	below
	Notes V-54-0432	
19	5ppb 5035 crv	below
	Notes V-54-0432	
20	10ppb 5035 crv	below
	Notes V-54-0432	
21	20ppb 5035 crv	below
	Notes V-54-0432	
22	50ppb 5035 crv	below
	Notes V-54-0432	
23	100ppb 5035 crv	below
	Notes V-54-0432	
24	b6	none
25	b7	none
26	10ppb 5035 icv	below
	Notes V-54-0427	
27	b8	none
28	mb-14008	none
29	1406d88-001a	below
	Notes x1 low level pb14008	
30	1406d88-002a	below
	Notes x1 low level pb14008	
31	1406d88-003a	below
	Notes x1 low level pb14008	
32	1406d88-004a	below
	Notes x1 low level pb14008	
33	1406d88-005a	below
	Notes x1 low level pb14008	
34	1406d88-006a	below
	Notes x1 low level pb14008	
35	1406d88-007a	below
	Notes x1 low level pb14008	
36	1406d88-008a	below
	Notes x1 low level pb14008	
37	1406d88-001ams	below
	Notes x1 low level V-11-8032 pb14008	
38	1406d88-001amsd	below
	Notes x1 low level V-11-8032 pb14008 @ 4:03	
39		

hand calc

Loaded By: 7-1-14
1st Review By: 7-2-14
QA'd By: ✓ NB 7/3/14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\070114m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 7-1-14

Calibration Name: 0701L4rrb 5035-8260 low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☐	☐	
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UQL=10ppb
Isopropyl ether	☐	☐	☑	☐	UQL= 50ppb
tert-Butyl alcohol	☐	☐	☑	☐	UQL= 500ppb
trans-1,2-DCE	☐	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UQL= 100ppb
1,1-Dichloroethane	☐	☐	☑	☐	PQL= 2ppb UQL= 50ppb
Methylene Chloride	☐	☐	☐	☑	
Vinyl acetate	☐	☐	☐	☑	
2,2-Dichloropropane	☐	☑	☑	☐	rerun on different instrument
2-Butanone	☐	☐	☐	☑	
1,1,1-Trichloroethane	☐	☐	☐	☑	
1,1-Dichloropropene	☐	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☐	☐	☑	☐	UQL= 50ppb
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☑	☐	
2-Choroethyl vinyl ether	☐	☐	☑	☐	UQL= 100ppb
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☑	☐	UQL= 50ppb
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☑	☐	UQL = 50 ppb
Chlorobenzene	☐	☐	☐	☑	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	UQL = 50 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☑	
Bromobenzene	☐	☐	☑	☐	UQL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: CG 7-2-14

QA: NB 7/3/14

Additional Comments:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ta\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
b3 7-1-201	35608	7.14	49136	13.46	17710	17.04						
b4 7-1-201	34798	7.14	45637	13.46	17034	17.04						
b5 7-1-201	37124	7.14	49316	13.46	17789	17.04						
0.4ppb 503	36440	7.14	48679	13.46	17704	17.04						
1ppb 5035	34222	7.14	43862	13.46	16477	17.04						
2ppb 5035	34472	7.14	46863	13.46	17715	17.04						
3ppb 5035	35306	7.14	47378	13.46	18075	17.04						
5ppb 5035	34967	7.14	50204	13.45	18464	17.04						
20ppb 5035	35982	7.14	50834	13.45	18528	17.03						
50ppb 5035	41869	7.14	53034 D	13.45 D	21049	17.04						
100ppb 503	42972	7.14	60676	13.45	22503	17.04						
b6 7-1-201	37347	7.14	52245	13.46	20293	17.04						
b7 7-1-201	35153	7.14	48100	13.45	18006	17.04						
10ppb 5035	40628	7.14	56008	13.46	20503	17.04						
b8 7-1-201	33650	7.14	46905	13.45	17588	17.04						
mb-14008 7	38084	7.14	51528	13.45	18232	17.04						

7-2-14

7/3/14

7/2/2014 8:40

Internal Standard And RT Summary

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1406d88-00	32125	7.14	42665	13.45	15586	17.03						
1406d88-00	20326	7.14	28639	13.45	10564	17.03						
1406d88-00	35021	7.14	49381	13.45	18585	17.03						
1406d88-00	30024	7.14	39658	13.45	14545	17.03						
1406d88-00	41935	7.14	56978	13.45	21021	17.03						
1406d88-00	21055	7.14	27361	13.45	9420	17.03						
1406d88-00	25218	7.14	34370	13.45	13376	17.03						
1406d88-00	21662	7.14	28445	13.45	10725	17.03						
1406d88-00	37773	7.14	57446	13.45	22183	17.03						
1406d88-00	41814	7.14	58606	13.45	21401	17.04						
b9 7-2-201	47204	7.14	60616	13.45	23784	17.03						

cg 7-2-14

JB 7/3/14

IS 1 = Pentafluorobenzene

IS 2 = Benzene-d5-, chloro-

IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b5 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: Mercury Injection Time: 16:09

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	24.8	
75	30-60% of m/z 95	50.9	
95	base peak	100.0	
96	5-9% of m/z 95	6.8	
173	<2% of m/z 174	0.2 (0.3)	174
174	>50% of m/z 95	63.3	
175	5-9% of m/z 174	4.5 (7.2)	174
176	>95% but <101% of m/z 174	63.6 (100.5)	174
177	5-9% of m/z 176	4.5 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b5 7-1-201	b5	h:\mercury_gcms\data\2014\0714m\07011 4m crv\b5 7-1-2014.SMS	7/1/2014 16:09
4 0.4ppb 503	0.4ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\0.4ppb 5035 crv 7-1-2014.SMS	7/1/2014 16:39
5 1ppb 5035	1ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\1ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:09
6 2ppb 5035	2ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\2ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:39
7 3ppb 5035	3ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\3ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:08
8 5ppb 5035	5ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\5ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:38
9 10ppb 5035	10ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:08
10 20ppb 5035	20ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\20ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:38
11 50ppb 5035	50ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\50ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:08
12 100ppb 503	100ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\100ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:37
13 10ppb 5035	10ppb 5035 icv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 icv 7-1-2014.SMS	7/1/2014 22:07

7-2-14

NB 7/3/14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 7/1/2014 7/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:37 20:37

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	2.650	3.043	2.913	2.692	2.960	2.603	2.637	2.259	0.9988	2.680	9.8	PASS	PASS
2.360													
Chloromethane	9.899	8.842	8.562	9.925	12.743	12.476	12.583	11.369	0.9971	10.762	14.9	PASS	PASS
10.463													
Vinyl chloride	7.828	8.912	10.357	11.833	16.335	15.002	14.517	12.296	0.9982	12.235	23.2	PASS	PASS
13.032													
Chloroethane	1.076	1.130	1.208	1.486	1.884	2.379	2.354	2.411	0.9996	1.828	33.3	PASS	PASS
2.525													

Analyst: cadg

VNB 7/3/14

CG 7.2.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	5.530	2.834	2.077	2.340	2.468	3.063	3.591	4.888	0.9999	3.710	43.0	PASS	PASS
6.595													
Trichlorofluoromethane	2.273	2.528	2.647	2.683	3.035	2.852	2.802	2.882	0.9990	2.754	9.2	PASS	PASS
3.079													
1,1-Dichloroethene	3.782	5.113	6.083	6.557	7.405	7.164	7.155	7.230	0.9997	6.446	19.6	PASS	PASS
7.528													
Acetone	5.263	3.719	2.696	2.708	3.078	3.101	3.688	4.388	0.9998	3.747	25.9	PASS	PASS
5.085													
Carbon disulfide	5.743	6.318	6.291	6.191	6.421	6.119	5.336	5.167	0.9997	5.857	8.9	PASS	PASS
5.131													
Iodomethane	9.949	6.154	6.026	6.416	7.243	10.069	10.665	13.997	0.9997	8.815	32.2	PASS	PASS
Methyl tert-butyl ether (MTBE)	6.917	7.809	7.614	7.799	8.160	6.797	5.197		0.9991	7.185	14.0	PASS	PASS
Isopropyl ether	21.282	29.554	33.754	35.993	38.103	37.037	33.654	32.199	0.9987	32.697	16.4	PASS	PASS
tert-Butyl alcohol	0.851	0.785	0.784	0.863	0.737	0.657			0.9903	0.779	9.8	PASS	PASS
trans-1,2-DCE	7.392	10.164	12.336	13.235	14.602	14.683	13.783	14.433	0.9997	12.839	19.8	PASS	PASS
14.926													
tert-Butyl ethyl ether	80.062	111.746	122.673	122.219	124.479	119.775	102.941	91.625	0.9951	109.440	15.1	PASS	PASS
Methylene Chloride	9.541	9.295	9.309	9.315	9.326	9.667	8.661	8.561	0.9984	9.066	6.3	PASS	PASS
7.916													
1,1-Dichloroethane			0.510	0.577	0.873	2.056	3.394	5.423	0.9996	2.139	91.3	PASS	PASS

Analyst: cadg

NB 7/3/14

cdg 7.2.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate	9.614	10.679	11.502	13.604	17.457	19.550	19.387	18.143	0.9990	15.268	25.7	PASS	PASS
17.475													
2,2-Dichloropropane	3.119	2.328	2.677	2.154	2.033	1.299			0.9950	2.268	27.2	PASS	PASS
2-Butanone	5.459	5.602	5.052	5.584	6.024	7.587	9.087	9.013	0.9988	7.015	26.3	PASS	PASS
9.729													
1,1,1-Trichloroethane	4.515	4.375	4.723	4.926	4.959	4.812	4.488	4.282	0.9966	4.661	5.4	PASS	PASS
4.872													
1,1-Dichloropropene	7.845	7.588	7.829	7.781	7.718	7.634	7.625	7.403	0.9996	7.683	1.8	PASS	PASS
7.724													
tert-Amyl methyl ether	32.005	33.403	34.734	34.734	34.357	34.249	32.256	28.329	0.9964	33.008	6.6	PASS	PASS
Carbon Tetrachloride	1.520	1.666	1.949	1.884	2.063	1.987	1.937	1.799	0.9990	1.858	9.2	PASS	PASS
1.920													
cis-1,2-DCE	2.254	2.665	2.761	2.792	2.893	2.929	2.894	2.886	0.9997	2.786	8.0	PASS	PASS
3.003													
Benzene	9.429	10.172	9.981	10.092	10.400	10.282	9.959	9.706	0.9995	10.025	3.0	PASS	PASS
10.202													
Chloroform	3.362	3.393	4.264	4.378	4.778	4.946	5.138	5.222	0.9992	4.560	17.2	PASS	PASS
5.564													
Bromochloromethane	4.274	3.513	4.459	4.181	4.354	4.175	3.941	3.814	0.9996	4.074	7.3	PASS	PASS
3.955													
Trichloroethene (TCE)	17.334	16.146	16.465	15.987	17.237	16.125	15.889	15.339	0.9994	16.302	3.9	PASS	PASS
16.196													
Dibromofluoromethane	2.504	2.504	2.794	2.888	3.196	3.081	3.408	3.342	0.8940	3.001	11.6	PASS	PASS
3.294													

Analyst: cadg

NB 7/3/14 cg 7.2.14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,2-Dichloroethane-d4 11.113	10.120	10.272	11.023	11.294	11.589	10.993	11.571	11.126	0.9812	11.011	4.6	PASS	PASS
1,2-Dichloroethane (EDC) 66.710	32.522	37.065	48.575	59.852	65.669	66.193	67.103	63.797	0.9996	56.387	24.1	PASS	PASS
1,2-Dichloropropane 18.607	10.544	12.963	16.234	18.592	20.441	19.833	19.466	18.168	0.9997	17.205	19.6	PASS	PASS
4-Methyl-2-pentanone 6.397	5.468	6.516	6.902	7.139	6.720	6.613	6.573	6.895	0.9988	6.580	7.2	PASS	PASS
Toluene-d8 1.750	1.869	1.836	1.896	1.974	1.897	1.848	1.876	1.941	0.9897	1.876	3.4	PASS	PASS
Toluene 10.492	12.074	11.527	11.168	11.794	11.505	10.788	10.565	11.082	0.9993	11.221	4.9	PASS	PASS
2-Chloroethyl vinyl ether	4.210	4.726	6.320	7.409	7.940	7.602	7.070	5.379	0.9999	6.332	22.3	PASS	PASS
cis-1,3-dichloropropene 17.450	15.208	14.865	16.368	17.167	17.283	16.648	16.028	17.834	0.9996	16.539	6.2	PASS	PASS
Bromodichloromethane 2.870	2.520	2.756	2.977	3.144	3.229	3.133	2.953	3.143	0.9981	2.970	7.6	PASS	PASS
2-Hexanone 18.281	11.725	17.377	18.526	20.154	19.368	18.240	18.545	18.829	0.9998	17.894	13.6	PASS	PASS
Tetrachloroethene (PCE) 3.063	3.261	3.286	3.135	3.205	3.306	3.028	2.882	3.141	0.9997	3.145	4.4	PASS	PASS
Dibromomethane	5.789	5.894	6.068	6.338	6.300	5.782	5.540	5.317	0.9995	5.879	6.0	PASS	PASS
1,3-Dichloropropane 5.661	5.130	5.517	5.826	6.303	6.087	6.124	5.717	6.053	0.9990	5.824	6.2	PASS	PASS

Analyst: cadg

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NB 7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.401	3.071	3.157	3.096	3.232	3.251	3.027	3.350	0.9992	3.084	8.9	PASS	PASS
3.174													
Ethylbenzene	12.587	12.638	12.419	12.688	12.431	12.667	11.886	12.465	0.9998	12.491	2.0	PASS	PASS
12.638													
mp-Xylenes	11.351	11.312	11.042	11.217	10.865	11.038	10.422	10.810	0.9999	10.979	2.7	PASS	PASS
10.753													
1,1,2-Trichloroethane	6.932	7.662	7.553	7.431	7.815	7.647	6.756	6.770	0.9993	7.321	5.9	PASS	PASS
Chlorobenzene	5.668	5.704	5.536	5.487	5.719	5.729	5.160	5.615	0.9996	5.593	3.3	PASS	PASS
5.717													
1,2-Dibromoethane (EDB)	1.902	1.851	1.928	1.934	2.021	1.907	1.734	1.566	0.9972	1.855	7.7	PASS	PASS
o-Xylene	11.322	11.552	11.420	11.496	11.392	11.731	10.666	11.073	0.9997	11.331	2.7	PASS	PASS
11.329													
Dibromochloromethane	1.585	1.621	1.659	1.691	1.647	1.720	1.567	1.563	0.9997	1.619	4.1	PASS	PASS
1.516													
1,1,1,2-Tetrachloroethane	2.568	2.643	2.733	2.780	2.689	2.700	2.494	2.512	0.9998	2.619	4.4	PASS	PASS
2.451													
Isopropylbenzene	11.312	11.491	11.136	11.088	11.112	11.037	10.409	11.113	0.9996	11.127	2.8	PASS	PASS
11.447													
Styrene	5.156	5.479	5.501	5.548	5.361	5.588	5.163	5.825	0.9992	5.517	5.1	PASS	PASS
6.029													
n-Propylbenzene	40.688	39.222	37.934	37.169	38.296	37.932	37.978	36.500	0.9984	38.408	3.5	PASS	PASS
39.949													
1,3,5-Trimethylbenzene	30.514	28.942	28.010	26.950	27.505	27.890	27.243	26.485	0.9977	28.112	4.6	PASS	PASS
29.467													

Analyst: cadg

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7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
tert-Butylbenzene	32.820	33.756	32.074	31.650	32.313	31.221	31.166	30.632	0.9989	32.068	3.1	PASS	PASS
32.979													
2-Chlorotoluene	10.218	10.341	9.373	9.385	9.736	9.698	8.895	9.167	0.9995	9.598	4.9	PASS	PASS
9.568													
4-Bromofluorobenzene	2.493	2.507	2.478	2.430	2.564	2.494	2.621	2.822	0.9787	2.568	4.9	PASS	PASS
2.708													
Bromobenzene	50.466	49.545	46.982	43.961	44.607	44.479	40.567	38.660	0.9991	44.908	9.1	PASS	PASS
4-Chlorotoluene	68.220	67.718	64.643	64.415	62.511	66.824	66.971	76.709	1.0000	70.580	15.2	PASS	PASS
97.208													
sec-Butylbenzene	45.619	42.600	39.677	38.159	38.123	39.574	35.912	39.320	0.9979	40.202	7.4	PASS	PASS
42.830													
1,2,4-Trimethylbenzene	93.130	93.803	89.576	86.971	87.634	88.282	85.339	88.728	0.9990	89.770	3.6	PASS	PASS
94.464													
4-Isopropyltoluene	32.692	32.667	30.913	29.412	31.268	30.020	28.723	29.180	0.9986	30.714	4.8	PASS	PASS
31.555													
Bromoform	10.925	11.341	11.579	11.609	11.922	11.443	11.224	12.292	0.9993	11.680	4.9	PASS	PASS
12.782													
1,2,3-Trichloropropane	13.965	15.425	14.206	14.728	13.936	13.823	13.428	14.211	0.9999	14.196	4.1	PASS	PASS
14.042													
n-Butylbenzene	54.768	57.590	52.370	49.245	50.841	49.240	47.315	48.387	0.9999	50.947	6.6	PASS	PASS
48.767													
1,1,2,2-Tetrachloroethane	45.724	46.759	47.019	48.421	47.391	46.901	46.057	46.996	0.9997	47.082	2.0	PASS	PASS
48.474													
1,3-Dichlorobenzene	13.681	13.118	12.990	13.135	13.022	12.747	11.803	12.653	0.9996	12.903	3.9	PASS	PASS
12.975													

Analyst: cadg

cg 7.2.14

✓ NB 7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,4-Dichlorobenzene	13.113	12.425	11.471	11.610	12.379	12.079	11.578	11.938	0.9998	12.092	4.3	PASS	PASS
12.232													
1,2-Dichlorobenzene	13.309	13.233	12.258	12.492	12.545	12.186	11.610	12.360	0.9999	12.481	4.2	PASS	PASS
12.334													
Hexachlorobutadiene	31.750	30.181	27.493	27.553	29.591	26.930	27.489	27.684	0.9998	28.566	5.6	PASS	PASS
28.425													
1,2-Dibromo-3-chloropropane	12.040	13.736	12.377	13.373	12.857	12.021	12.422	12.652	0.9985	12.799	5.2	PASS	PASS
13.716													
1,2,4-Trichlorobenzene	38.851	40.230	37.023	36.775	37.932	36.006	36.196	36.904	0.9999	37.460	3.6	PASS	PASS
37.222													
Naphthalene	14.930	16.127	16.707	16.292	16.630	17.015	17.617	18.276	0.9988	17.029	8.0	PASS	PASS
19.670													
1,2,3-Trichlorobenzene	34.907	36.343	33.955	32.310	34.452	33.711	32.595	30.281	0.9997	33.167	6.3	PASS	PASS
29.944													
2-Methylnaphthalene	22.964	24.456	26.278	27.719	29.675	34.003	34.656	36.934	0.9997	30.523	18.2	PASS	PASS
38.020													
1-Methylnaphthalene	35.968	36.282	39.915	41.846	44.355	47.656	48.987	49.103	0.9999	43.836	12.8	PASS	PASS
50.416													
										Average %RSD	11.2		

cg 7-2-14

JDB 7/3/14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

Ran this on a different instrument cg 7-2-14

Analyst: cadg

JB 7/3/14

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

cdg 7.2.14

✓ WB 7/3/14

Analyst: cadg

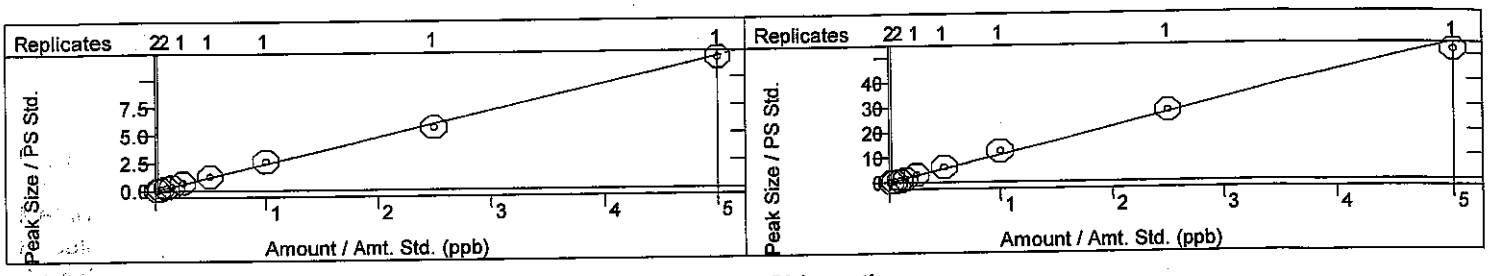
Calibration Curves Report

cg 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

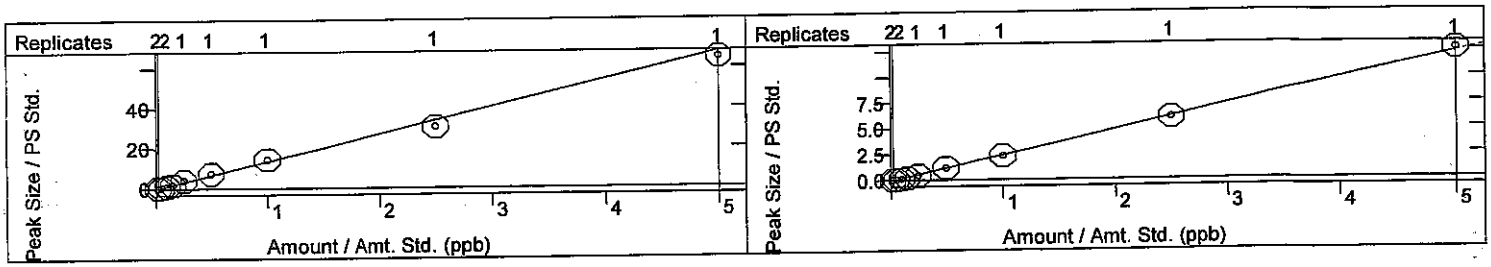
Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.810%, Coeff. Det.(r2): 0.998845
y = +2.3792x +0.0287

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.91%, Coeff. Det.(r2): 0.997109
y = +11.0759x -0.0299



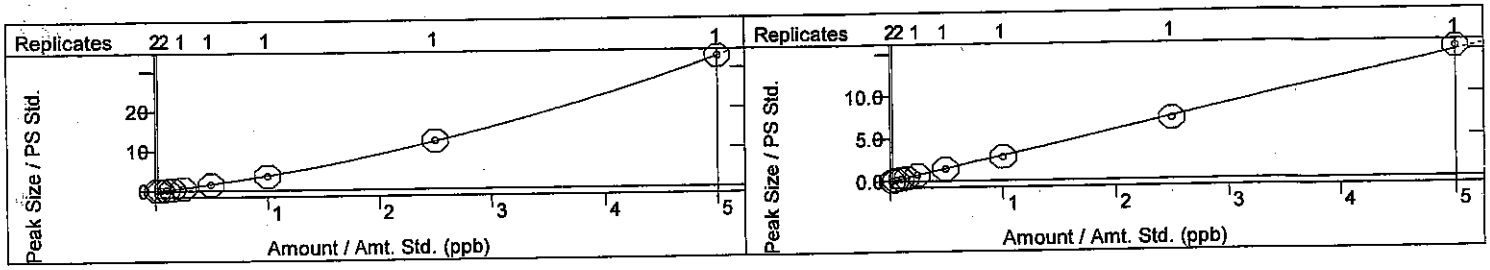
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 23.20%, Coeff. Det.(r2): 0.998154
y = +13.6650x -0.1366

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.30%, Coeff. Det.(r2): 0.999587
y = +2.4706x -0.0613



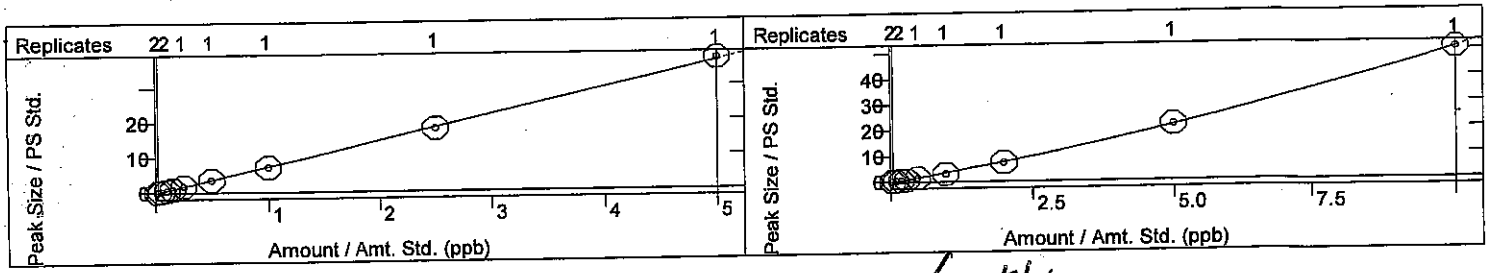
Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 42.95%, Coeff. Det.(r2): 0.999906
y = +0.6980x2 +3.1328x -0.1096

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.192%, Coeff. Det.(r2): 0.999006
y = +2.9920x -0.0228



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.58%, Coeff. Det.(r2): 0.999671
y = +7.4264x -0.0936

Acetone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 25.93%, Coeff. Det.(r2): 0.999774
y = +0.1488x2 +3.6265x -0.2303



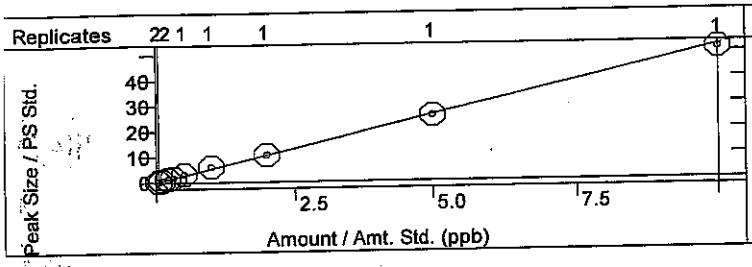
JNB 7/3/14

Calibration Curves Report

07.2.14

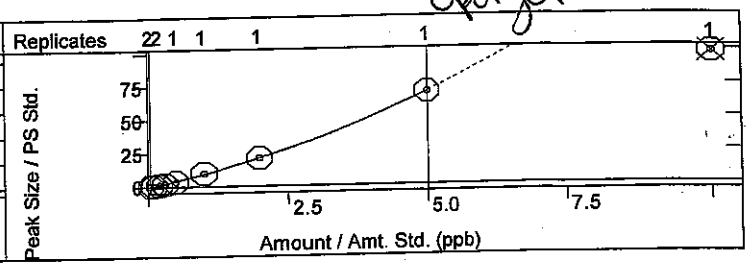
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Recalc Method:	...0-5035 low.mth	Method Modified:	7/2/2014 8:10 AM
Sample List:	N/A	Detector:	200-MS Mass Spec
Sequence:	N/A	Workstation Version:	Version 7.0.1
MS Workstation		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.923%, Coeff. Det.(r2): 0.999693
y = +5.2268x +0.1204



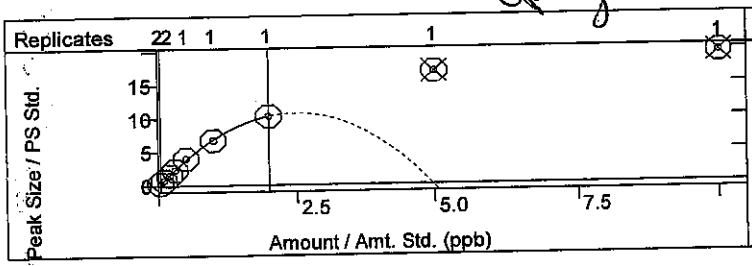
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 32.15%, Coeff. Det.(r2): 0.999696
y = +1.0511x2 +8.8298x -0.4374

cpd fit



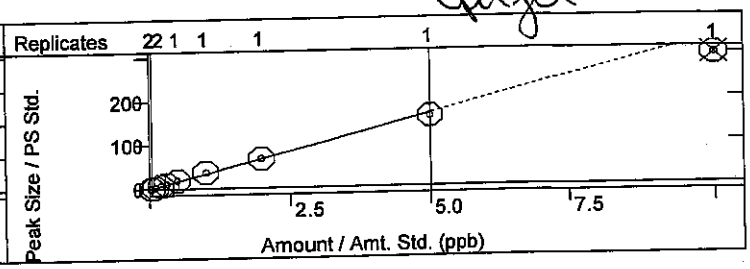
Methyl tert-butyl ether (MTBE)
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.00%, Coeff. Det.(r2): 0.999119
y = -1.7584x2 +8.7436x -0.0752

cpd fit



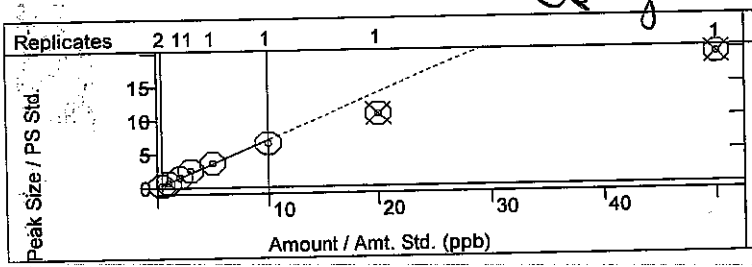
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.40%, Coeff. Det.(r2): 0.998750
y = +33.5836x -0.1508

cpd fit

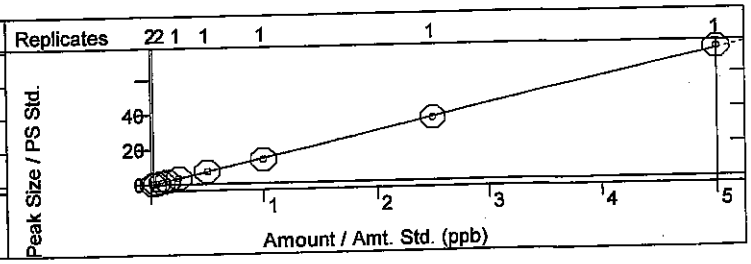


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.788%, Coeff. Det.(r2): 0.990256
y = +0.6955x +0.1088

cpd fit

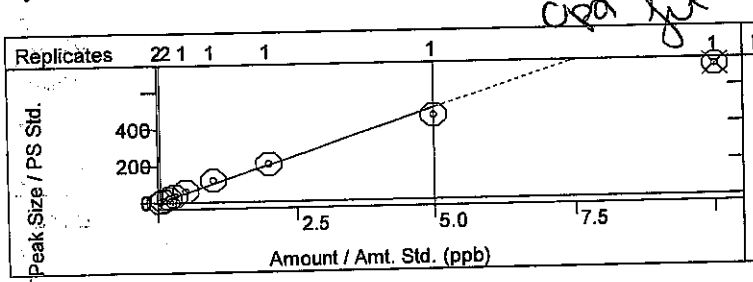


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.77%, Coeff. Det.(r2): 0.999660
y = +14.7326x -0.1808

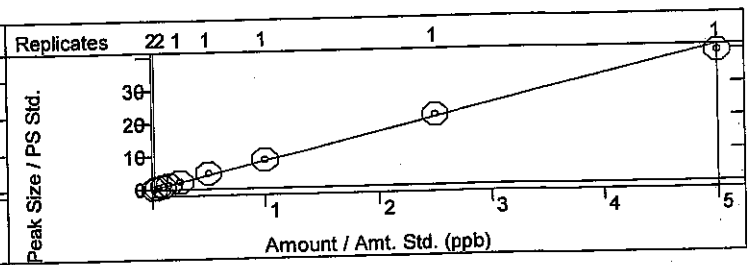


tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.05%, Coeff. Det.(r2): 0.995126
y = +99.3256x +1.7204

cpd fit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.252%, Coeff. Det.(r2): 0.998417
y = +8.2659x +0.0763



JB 7/3/14

Calibration Curves Report

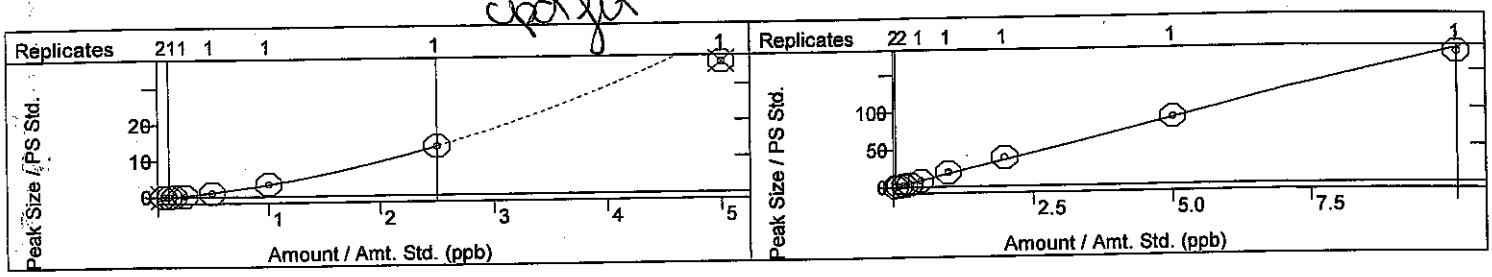
cg 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,1-Dichloroethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 91.29%, Coeff. Det.(r2): 0.999571
y = +1.2977x2 +2.3108x -0.3199

Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.70%, Coeff. Det.(r2): 0.999009
y = +18.0300x -0.5274

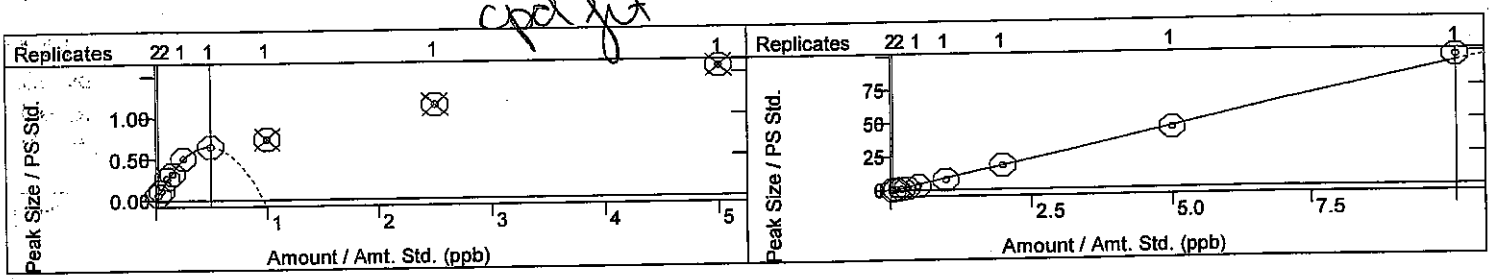
cpd fit



2,2-Dichloropropane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.19%, Coeff. Det.(r2): 0.994996
y = -2.7875x2 +2.6865x +0.0038

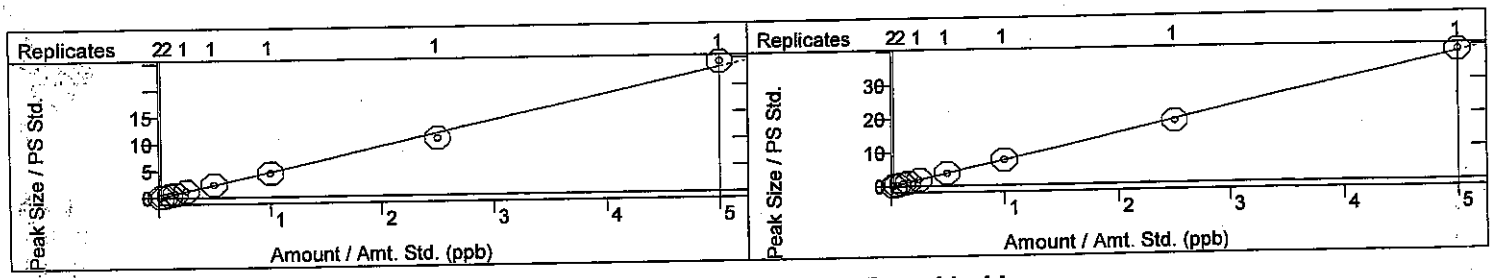
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 26.32%, Coeff. Det.(r2): 0.998812
y = +9.3294x -0.4419

cpd fit



1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.402%, Coeff. Det.(r2): 0.996627
y = +4.6740x -0.0012

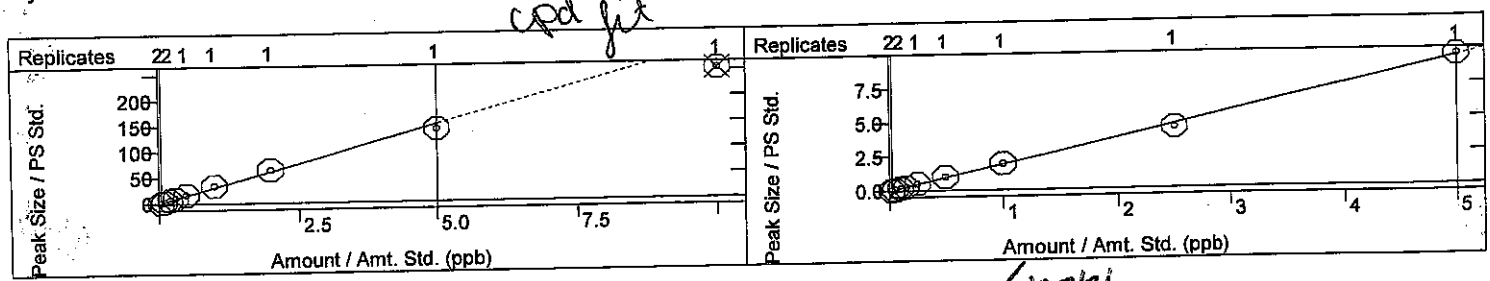
1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.802%, Coeff. Det.(r2): 0.999620
y = +7.6209x +0.0059



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.571%, Coeff. Det.(r2): 0.996388
y = +30.1644x +0.4837

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.165%, Coeff. Det.(r2): 0.999016
y = +1.8988x -0.0039

cpd fit



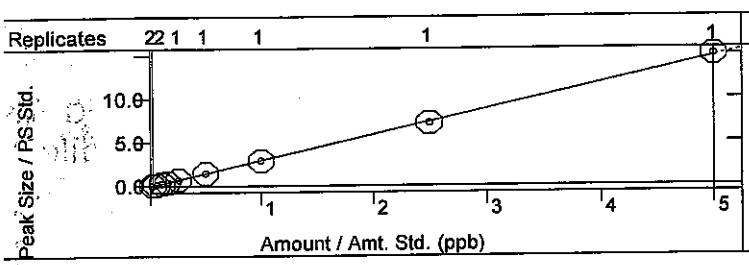
NB 7/3/14

Calibration Curves Report

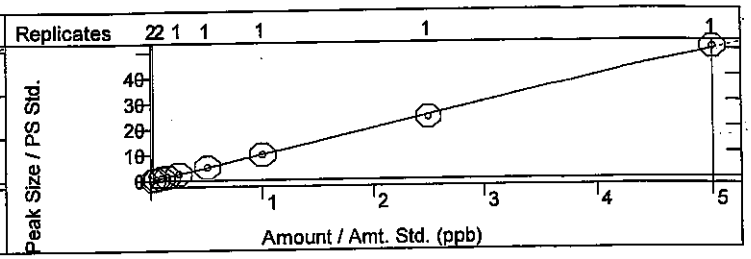
cq 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

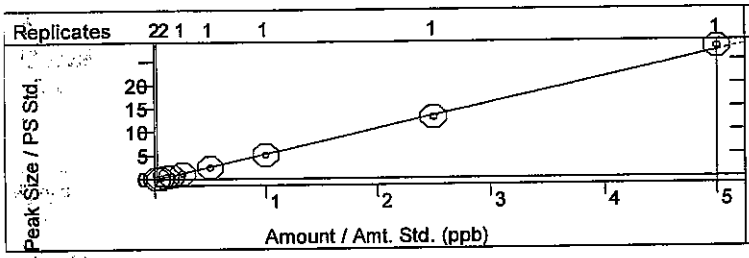
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.013%, Coeff. Det.(r2): 0.999680
y = +2.9610x -0.0167



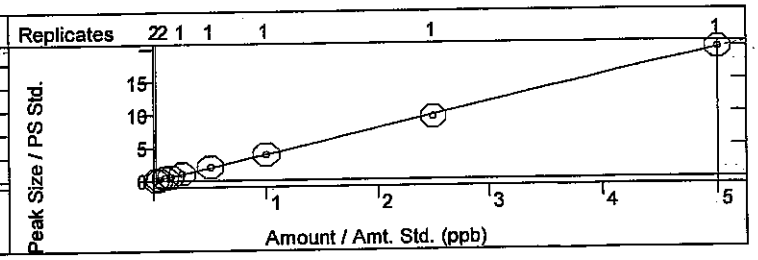
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.006%, Coeff. Det.(r2): 0.999467
y = +10.0529x -0.0027



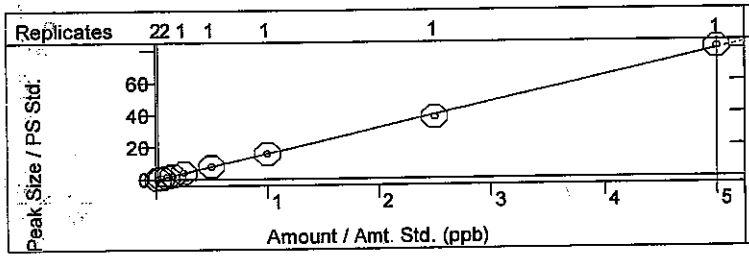
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.15%, Coeff. Det.(r2): 0.999217
y = +5.4050x -0.0806



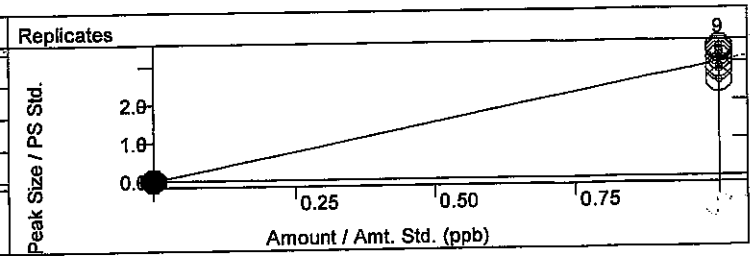
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.276%, Coeff. Det.(r2): 0.999632
y = +3.9331x +0.0134



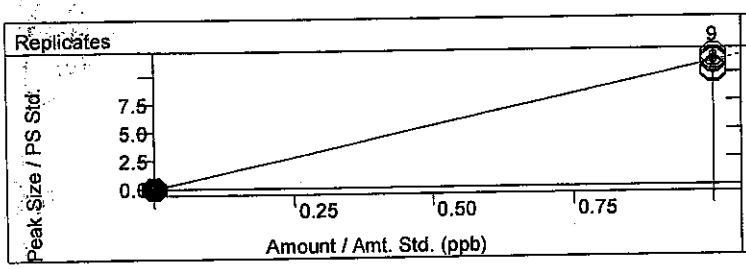
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.898%, Coeff. Det.(r2): 0.999353
y = +15.9319x +0.0353



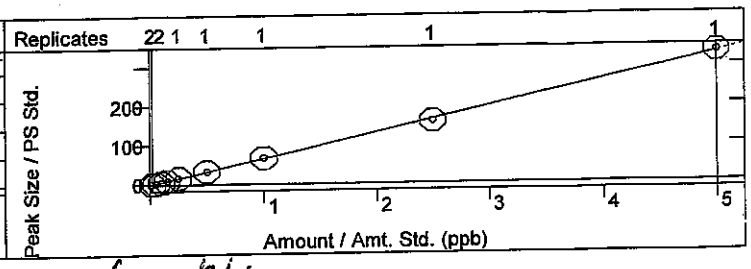
Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 11.55%, Coeff. Det.(r2): 0.893986
y = +3.0013x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.981195
y = +11.0112x



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.08%, Coeff. Det.(r2): 0.999576
y = +66.3031x -0.9467



JMB 7/3/14

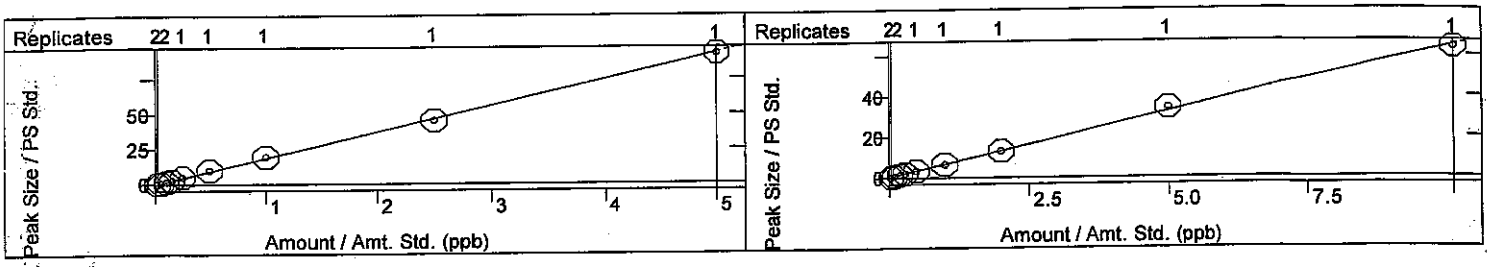
Calibration Curves Report

cgt·2·14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

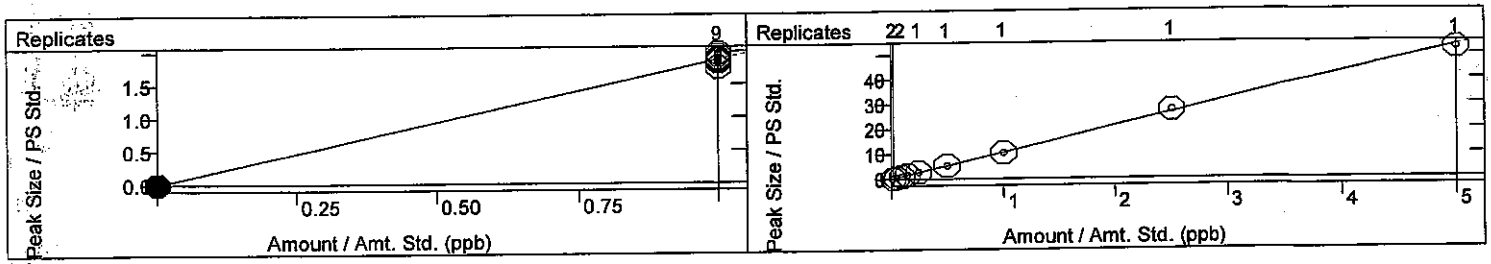
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.56%, Coeff. Det.(r2): 0.999667
y = +18.7622x -0.1487

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.227%, Coeff. Det.(r2): 0.998757
y = +6.4646x +0.2471



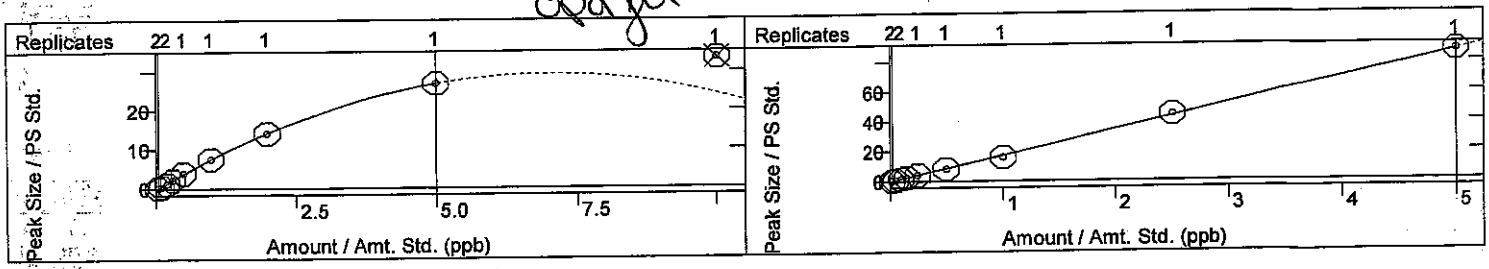
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.421%, Coeff. Det.(r2): 0.989702
y = +1.8764x

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.885%, Coeff. Det.(r2): 0.999349
y = +10.6832x +0.0514



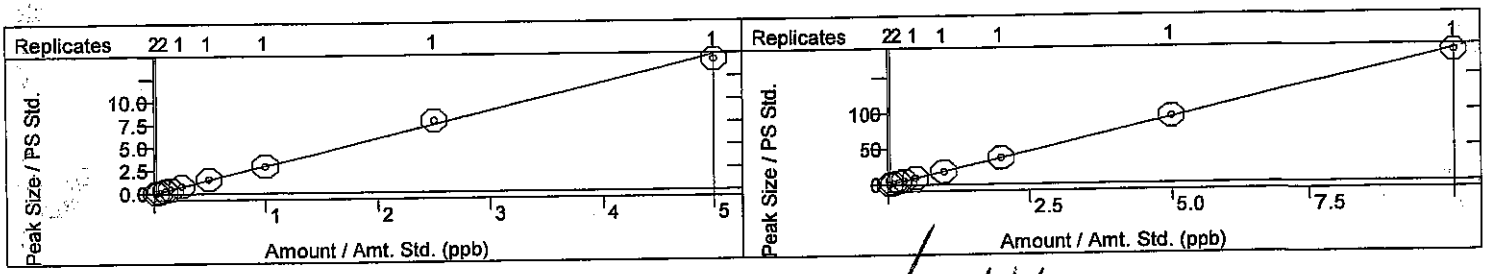
2-Chloroethyl vinyl ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 22.25%, Coeff. Det.(r2): 0.999883
y = -0.5994x2 +8.4266x -0.2584

cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.170%, Coeff. Det.(r2): 0.999597
y = +17.3985x -0.0821



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.643%, Coeff. Det.(r2): 0.998127
y = +2.9780x -8.0662e-4

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.999795
y = +18.5504x -0.1254



NB 7/3/14

Calibration Curves Report

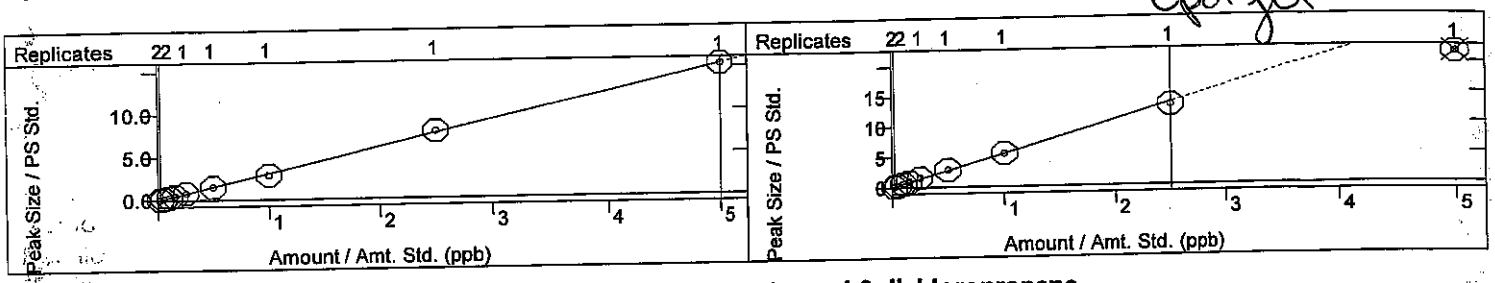
07.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Recalc Method:	...0-5035 low.mth	Method Modified:	7/2/2014 8:10 AM
Sample List:	N/A	Detector:	200-MS Mass Spec
Sequence:	N/A	Workstation Version:	Version 7.0.1
MS Workstation		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.394%, Coeff. Det.(r2): 0.999659
y = +3.0661x +0.0076

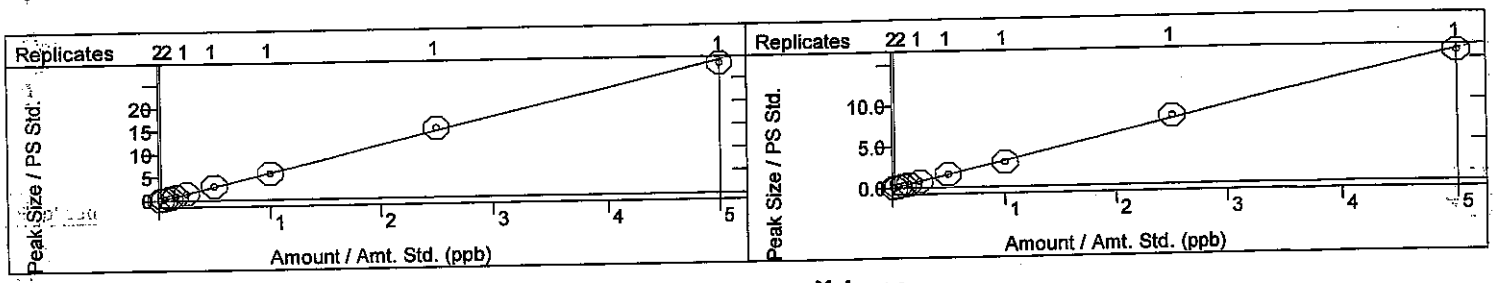
Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.004%, Coeff. Det.(r2): 0.999471
y = +5.4678x +0.0349

cpd 1jt



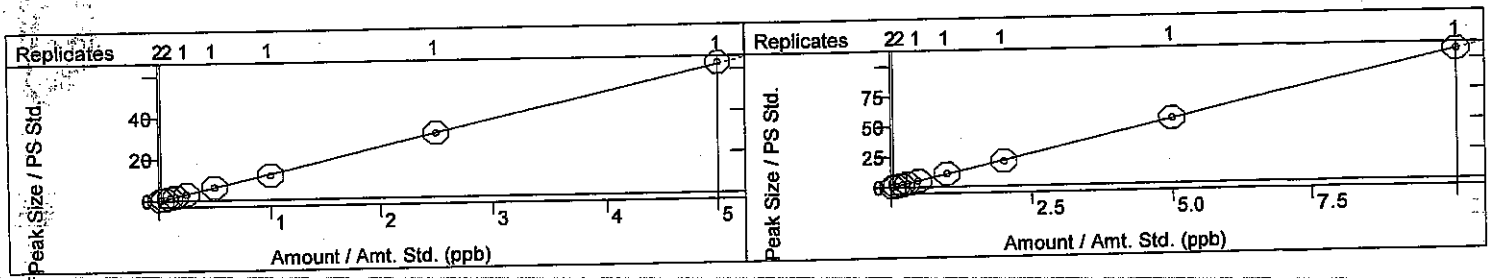
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.234%, Coeff. Det.(r2): 0.998981
y = +5.8135x +0.0010

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.906%, Coeff. Det.(r2): 0.999185
y = +3.2188x -0.0128



Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.997%, Coeff. Det.(r2): 0.999839
y = +12.5106x -0.0019

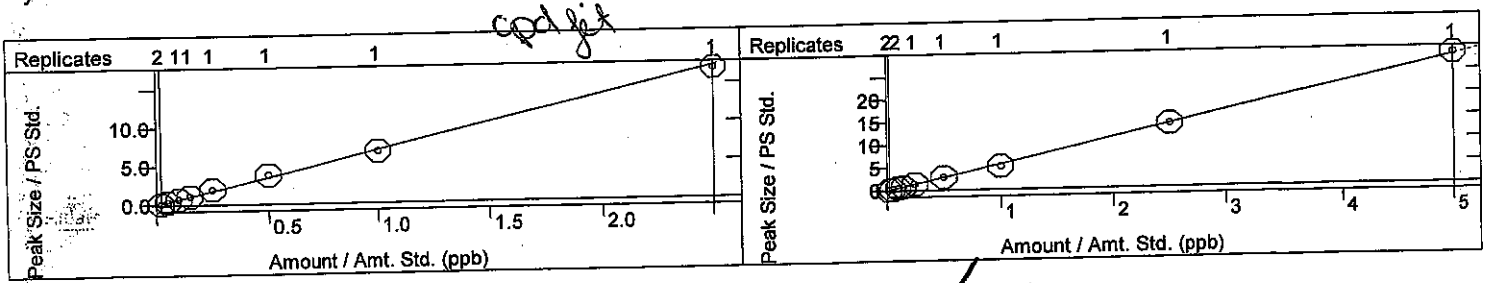
mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.725%, Coeff. Det.(r2): 0.999940
y = +10.7446x +0.0447



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.901%, Coeff. Det.(r2): 0.999270
y = +6.9082x +0.0351

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.284%, Coeff. Det.(r2): 0.999601
y = +5.6307x -0.0036

cpd 1jt



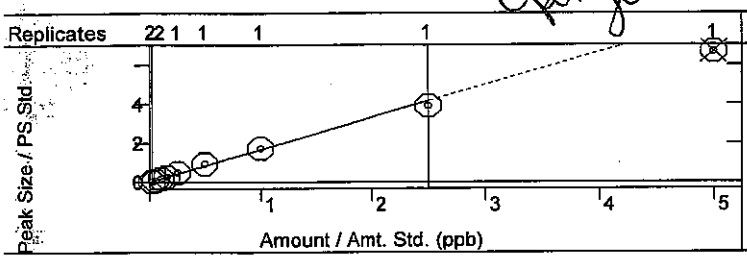
JDB 7/3/14

Calibration Curves Report

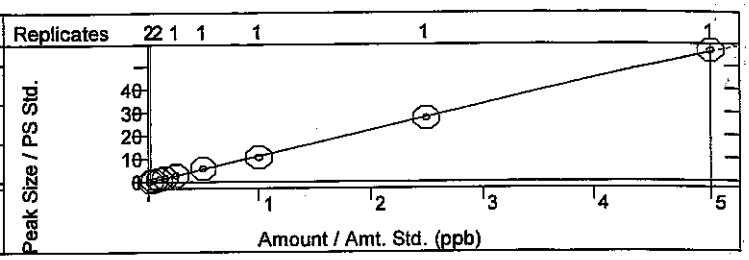
cof 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

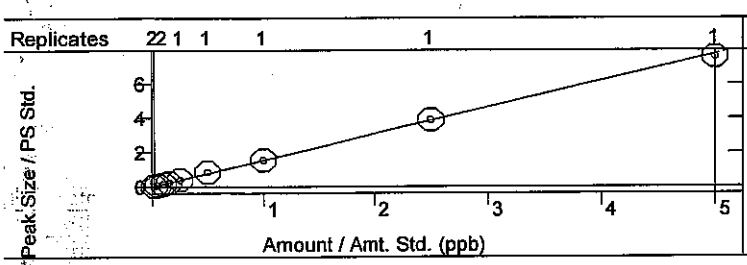
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.997156
y = +1.6606x +0.0166



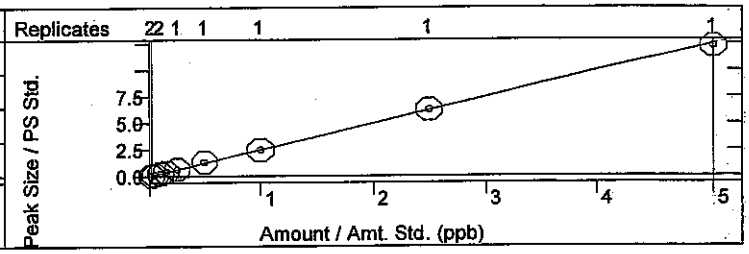
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.714%, Coeff. Det.(r2): 0.999748
y = +11.2091x +0.0117



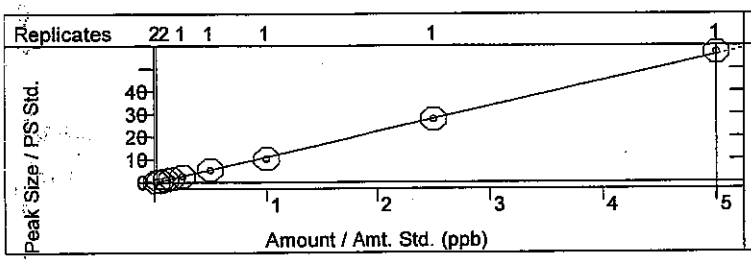
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.111%, Coeff. Det.(r2): 0.999711
y = +1.5460x +0.0069



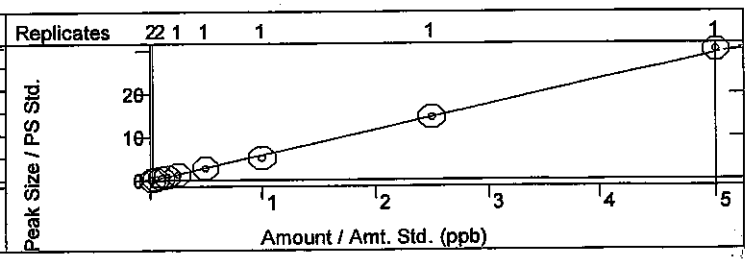
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.447%, Coeff. Det.(r2): 0.999830
y = +2.4886x +0.0124



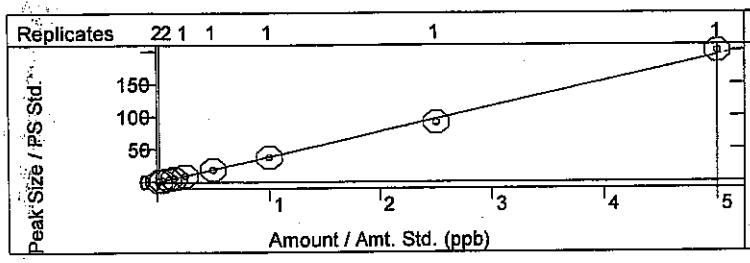
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.832%, Coeff. Det.(r2): 0.999577
y = +11.2207x -0.0089



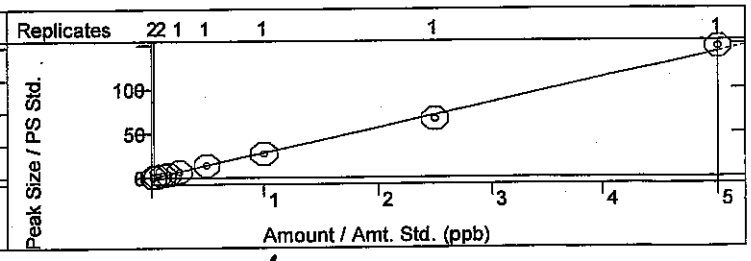
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.144%, Coeff. Det.(r2): 0.999169
y = +5.8575x -0.0325



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.452%, Coeff. Det.(r2): 0.998380
y = +38.6484x -0.0230



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.997729
y = +28.2816x -0.0162



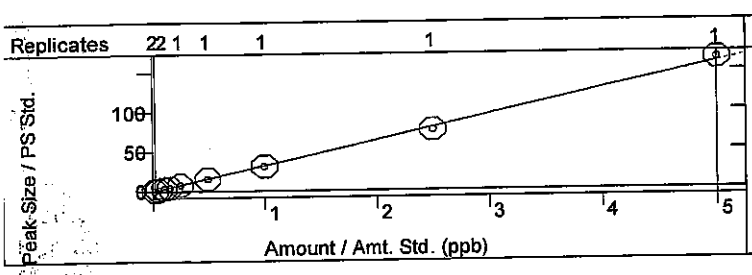
✓ NB 7/3/14

Calibration Curves Report

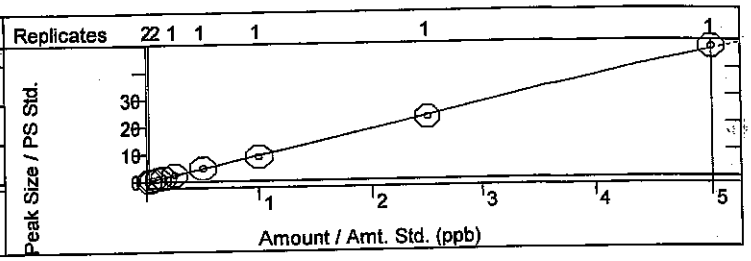
cg 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

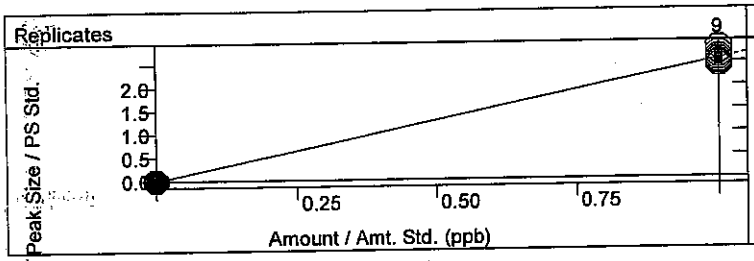
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.133%, Coeff. Det.(r2): 0.998866
y = +32.0381x +0.0029



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.862%, Coeff. Det.(r2): 0.999459
y = +9.3856x +0.0203

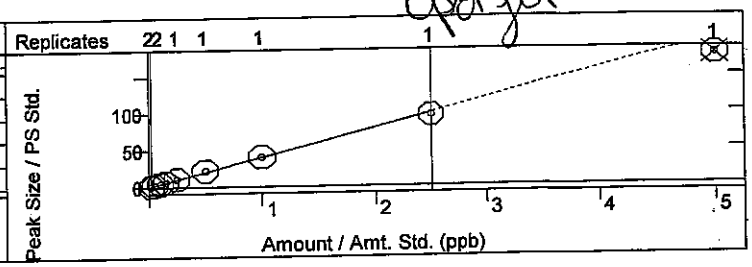


4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.943%, Coeff. Det.(r2): 0.978744
y = +2.5685x

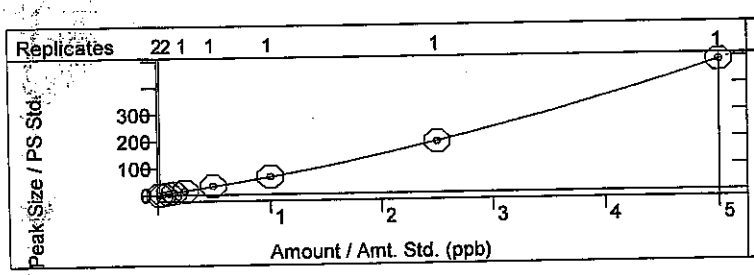


Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.055%, Coeff. Det.(r2): 0.999146
y = +39.8063x +0.4339

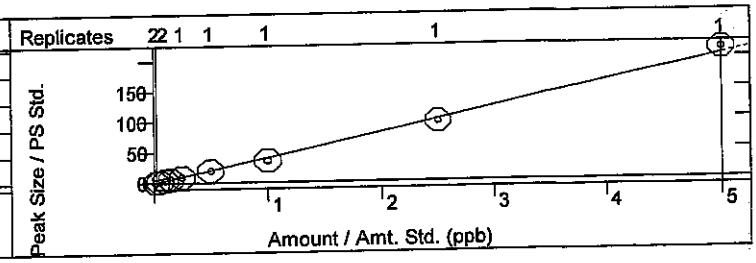
cpd fit



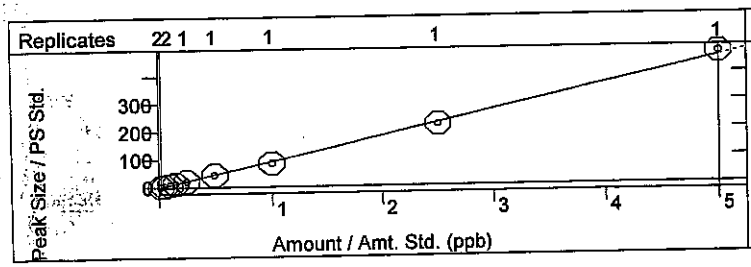
4-Chlorotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.24%, Coeff. Det.(r2): 0.999960
y = +8.0511x2 +56.6805x +1.0911



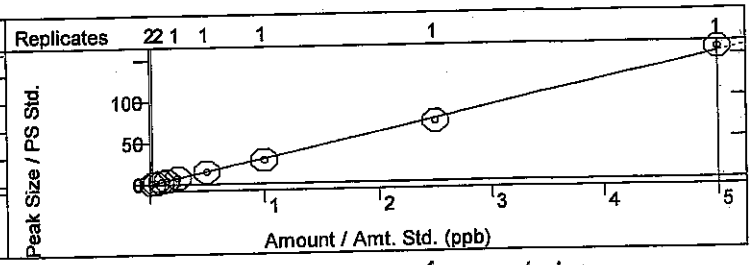
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.376%, Coeff. Det.(r2): 0.997936
y = +40.8540x -0.0623



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.630%, Coeff. Det.(r2): 0.999023
y = +91.4908x -0.1643



4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.784%, Coeff. Det.(r2): 0.998606
y = +30.4997x +0.0205



✓ NB 7/3/14

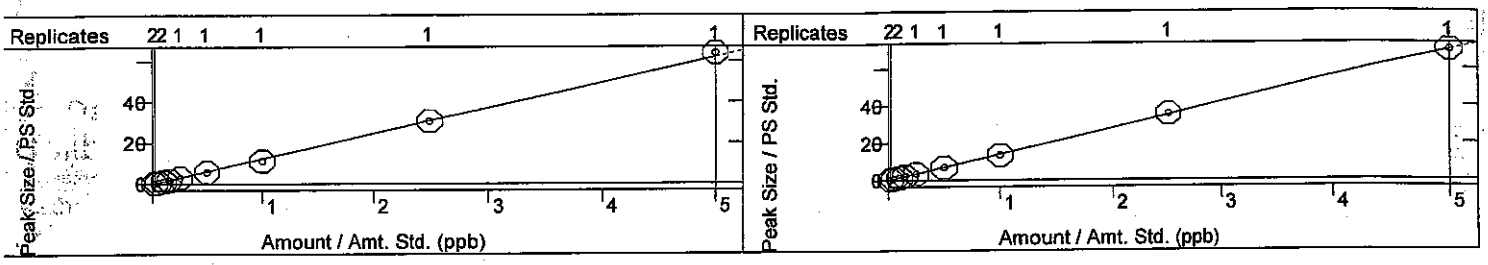
Calibration Curves Report

cg 7-2-14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

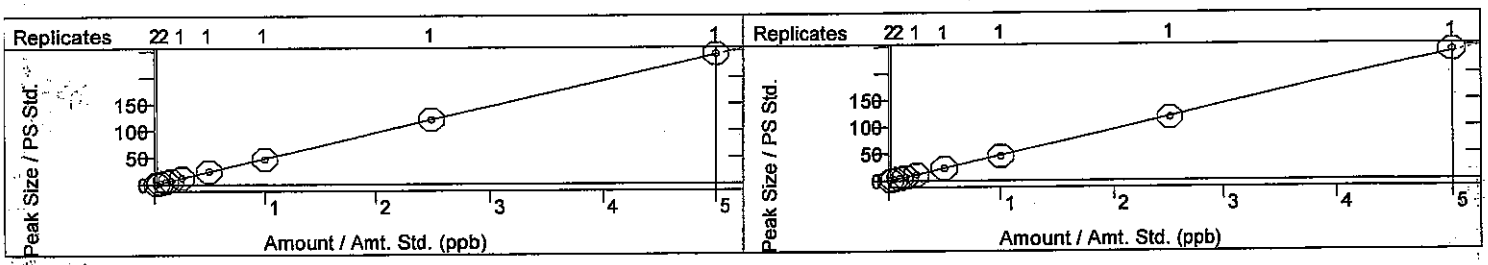
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.892%, Coeff. Det.(r2): 0.999285
y = +12.4233x -0.0710

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.067%, Coeff. Det.(r2): 0.999872
y = +14.0110x +0.0177



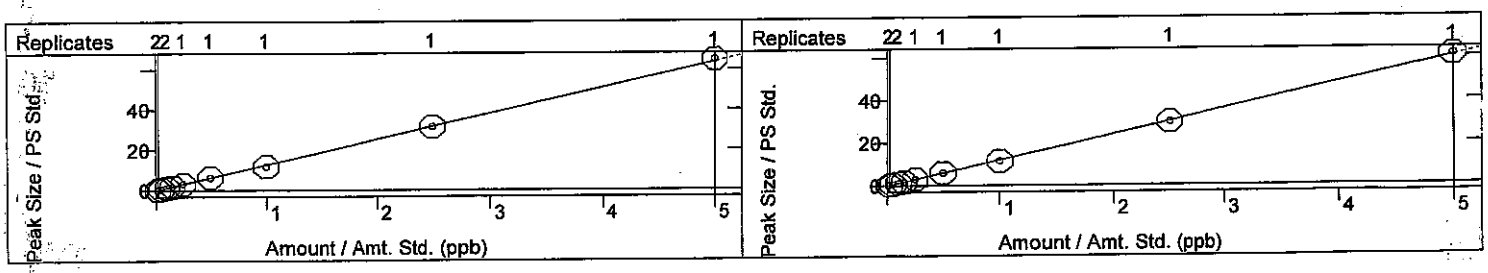
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.622%, Coeff. Det.(r2): 0.999938
y = +48.4769x +0.2358

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.968%, Coeff. Det.(r2): 0.999747
y = +47.7543x -0.0641



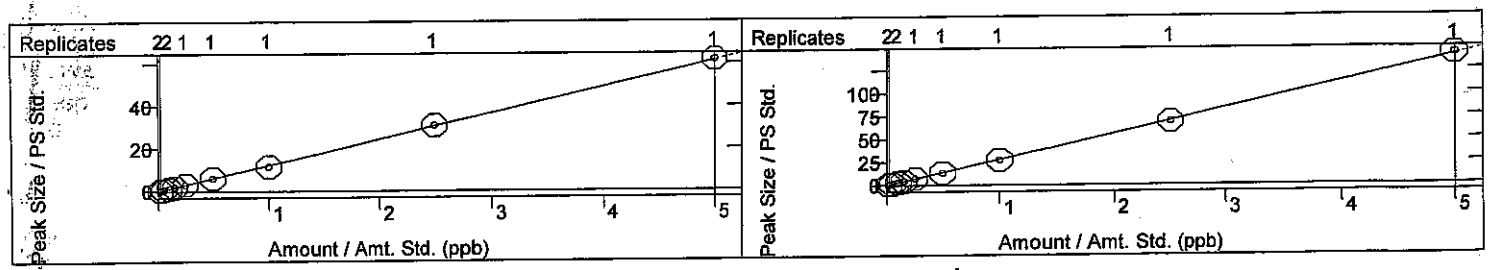
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.903%, Coeff. Det.(r2): 0.999592
y = +12.7489x +0.0147

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.999795
y = +12.0658x +0.0025



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.189%, Coeff. Det.(r2): 0.999853
y = +12.2507x +0.0220

Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.618%, Coeff. Det.(r2): 0.999804
y = +28.0304x +0.0511



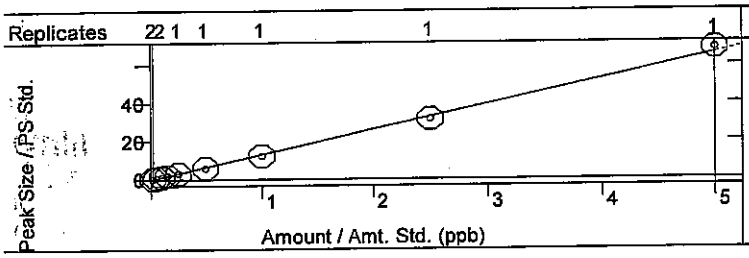
JNB 7/3/14

Calibration Curves Report

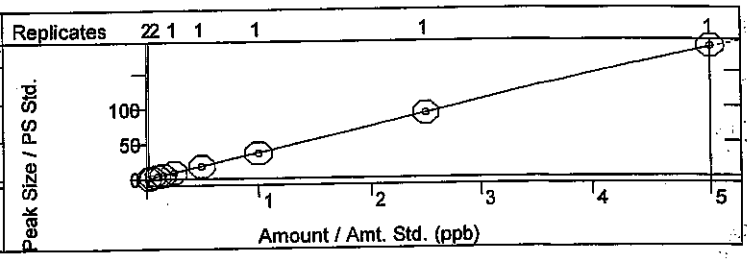
sg7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

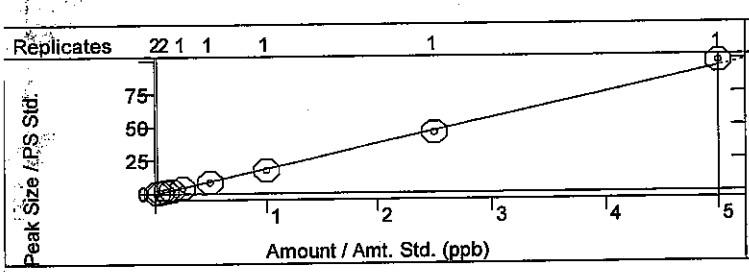
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.998523
y = +13.2059x -0.0388



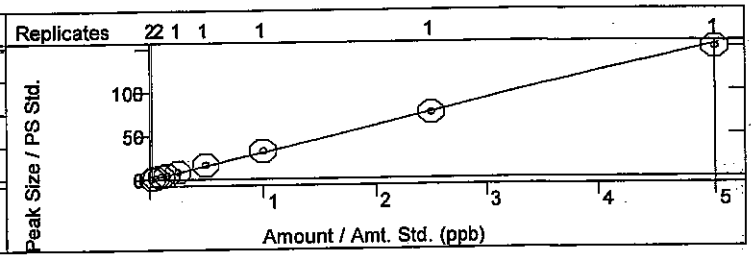
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.602%, Coeff. Det.(r2): 0.999950
y = +36.9512x +0.0486



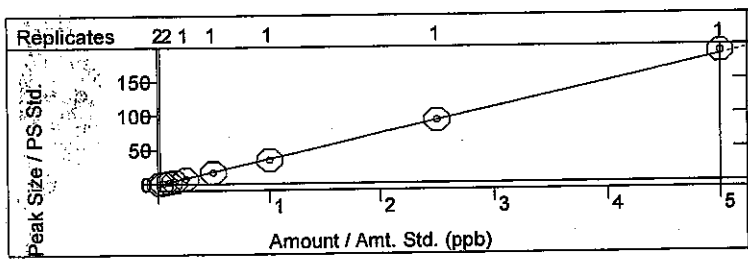
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.015%, Coeff. Det.(r2): 0.998790
y = +18.9317x -0.1816



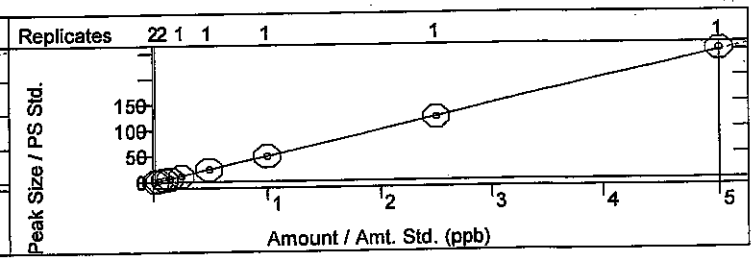
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.348%, Coeff. Det.(r2): 0.999689
y = +30.5080x +0.2538



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.21%, Coeff. Det.(r2): 0.999703
y = +37.1668x -0.6344



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.77%, Coeff. Det.(r2): 0.999876
y = +49.8094x -0.5703



✓WB 7/3/14

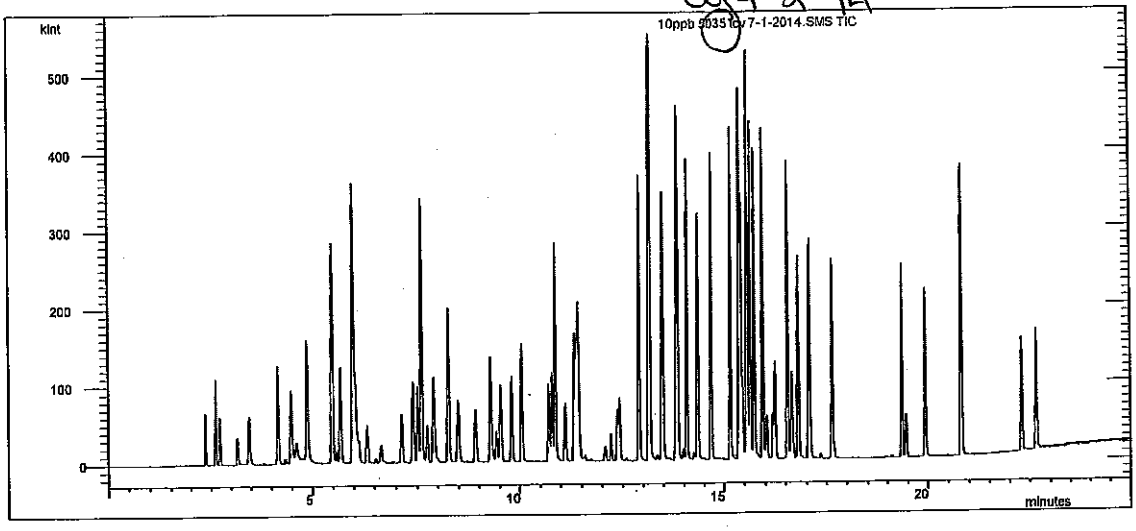
8260B/624 Report

Sample Name: 10ppb 5035 icv **Operator Name:** Christina Gallegos **Instrument ID:** Mercury_1

Inst. Method: C:\AgilentWS\Methods\070114m 8260-5035 Low.mth **Inj. Notes:** V-54-0427 **Acquisition Date:** 7/1/2014 10:07:10 PM

Calculation Date: 7/2/2014 8:29:08 AM

read as ccv dklco 7-2-14



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.141	700	Identified	40628	20.000
Benzene-d5-, chloro-	13.455	1373	Identified	56008	20.000
1,4-Dichlorobenzene-d4	17.035	1753	Identified	20503	20.000
Dichlorodifluoromethane	2.360	185	Identified	57375	11.630
Chloromethane	2.611	213	Identified	273540	12.212
Vinyl chloride	2.718	224	Identified	292412	10.734
Chloroethane	3.153	271	Identified	47009	9.863
Bromomethane	3.157	272	Identified	72600	10.807
Trichlorofluoromethane	3.453	304	Identified	54915	9.187
1,1-Dichloroethene	4.161	381	Identified	137647	9.376
Acetone	4.346	401	Identified	118146	16.733
Carbon disulfide	4.481	415	Identified	239046	22.053
Iodomethane	4.608	429	Identified	321474	17.160
Methyl tert-butyl ether (MTBE)	4.871	457	Identified	244751	16.784
Isopropyl ether	5.477	522	Identified	1.453E6	21.391
tert-Butyl alcohol	5.583	533	Identified	221810	153.871
trans-1,2-DCE	5.684	544	Identified	275499	9.451
tert-Butyl ethyl ether	5.986	576	Identified	4.713E6	23.009
Methylene Chloride	6.044	582	Identified	177972	10.414
1,1-Dichloroethane	6.124	590	Identified	38142	8.746
Vinyl acetate	6.328	612	Identified	844674	23.647
2,2-Dichloropropane	6.532	634	Identified	22674	5.985
2-Butanone	6.648	647	Identified	307529	17.174
1,1,1-Trichloroethane	7.408	728	Identified	94917	10.002

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.519	740	Identified	144969	9.349
tert-Amyl methyl ether	7.608	749	Identified	1.418E6	22.815
Carbon Tetrachloride	7.739	763	Identified	36091	9.397
cis-1,2-DCE	7.904	781	Identified	57975	9.751
Benzene	8.256	818	Identified	205711	10.078
Chloroform	8.497	844	Identified	98705	9.288
Bromochloromethane	8.917	889	Identified	82846	10.301
Trichloroethene (TCE)	9.273	927	Identified	320345	9.854
Dibromofluoromethane	9.307	931	Identified	129015	21.161
1,2-Dichloroethane-d4	9.420	943	Identified	452031	20.208
1,2-Dichloroethane (EDC)	9.527	954	Identified	1.332E6	10.178
1,2-Dichloropropane	9.801	983	Identified	403810	10.753
4-Methyl-2-pentanone	10.041	1009	Identified	371567	19.760
Toluene-d8	10.792	1089	Identified	104553	19.897
Toluene	10.873	1098	Identified	304823	10.093
2-Chloroethyl vinyl ether	11.111	1123	Identified	393716	18.517
cis-1,3-dichloropropene	11.325	1146	Identified	433167	8.985
Bromodichloromethane	11.338	1147	Identified	88882	10.663
2-Hexanone	11.375	1151	Identified	1.005E6	19.486
Tetrachloroethene (PCE)	11.408	1155	Identified	85437	9.901
Dibromomethane	11.428	1157	Identified	164474	10.614
1,3-Dichloropropane	12.367	1257	Identified	166287	10.210
trans-1,3-dichloropropene	12.419	1263	Identified	81188	9.087
Ethylbenzene	12.898	1314	Identified	341848	9.760
mp-Xylenes	13.147	1341	Identified	598594	19.811
1,1,2-Trichloroethane	13.148	1341	Identified	208400	10.671
Chlorobenzene	13.478	1375	Identified	152359	9.675
1,2-Dibromoethane (EDB)	13.465	1374	Identified	49337	10.409
o-Xylene	13.820	1411	Identified	306894	9.756
Dibromochloromethane	13.796	1409	Identified	44974	10.298
1,1,1,2-Tetrachloroethane	13.844	1414	Identified	71441	10.151
Isopropylbenzene	14.059	1437	Identified	306260	9.762
Styrene	14.331	1465	Identified	146802	9.061
n-Propylbenzene	14.681	1502	Identified	385233	9.735
1,3,5-Trimethylbenzene	15.160	1554	Identified	276806	9.559
tert-Butylbenzene	15.369	1576	Identified	316693	9.641
2-Chlorotoluene	15.412	1580	Failed	95254	9.857
4-Bromofluorobenzene	15.462	1586	Identified	52131	19.799
Bromobenzene	15.557	1596	Identified	463987	11.152
4-Chlorotoluene	15.572	1597	Identified	656847	10.183
sec-Butylbenzene	15.646	1605	Identified	404826	9.697
1,2,4-Trimethylbenzene	15.739	1614	Identified	888564	9.510
4-Isopropyltoluene	15.934	1635	Identified	298294	9.527
Bromoform	16.024	1645	Identified	122679	9.747
1,2,3-Trichloropropane	16.229	1667	Identified	141928	9.856
n-Butylbenzene	16.548	1701	Identified	503619	10.037
1,1,2,2-Tetrachloroethane	16.651	1712	Identified	478197	9.795
1,3-Dichlorobenzene	16.801	1728	Identified	124824	9.528
1,4-Dichlorobenzene	17.061	1755	Identified	120862	9.767
1,2-Dichlorobenzene	17.646	1818	Identified	125233	9.936

SR 7-2-14

neric SampleList Printout - Fri Jul 25 17:37:58 2014

mpleList: C:\AgilentWS\072514m.smp

eated: Fri Jul 25 08:12:11 2014
dified: Fri Jul 25 17:37:55 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	b3	none
4	b4	none tune @2:59
5	b5	none
6	10ppb 5035 ccv	below @3:28
	Notes V-54-0439	
7	lcs-14444	below
	Notes V-11-8032	
8	mb-14444	none
9	b7	none
10	1407c55-001a	below
	Notes x1 low level soil pb14444	
11	1407c55-001ams	below
	Notes x1 low level soil pb14444 V-11-8032	
12	1407c55-001amsd	below
	Notes x1 low level soil pb14444 V-11-8032	
13	1407c55-002a	below
	Notes x1 low level soil pb14444	
14	1407c55-003a	below
	Notes x1 low level soil pb14444	
15	1407c55-004a	below
	Notes x1 low level soil pb14444	
16	1407c55-005a	below
	Notes x1 low level soil pb14444	
17	1407c55-006a	below
	Notes x1 low level soil pb14444 @ 8:58	
18	b8	none
19	b9	none
20		

hand cure

Loaded By: cgt 7-25-14
1st Review By: cgt 7-26-14
QA'd By: JNB 7/30/14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\072514m.rcl.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 7/25/2014 Time: 15:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:37 20:37

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Lab File ID: c:\agilentws\data\10ppb 5035 ccv 7-25-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC	
Dichlorodifluoromethane	2.173	0.100	10.00	8.89	11.1	30.0	PASS	PASS	
Chloromethane	10.808	0.100	10.00	9.81	1.9	30.0	PASS	PASS	
Vinyl chloride	12.070	0.100	10.00	9.03	9.7	20.0	PASS	PASS	
Chloroethane	1.936	0.100	10.00	8.33	16.7	30.0	PASS	PASS	
Bromomethane	1.238	0.100	10.00	4.43	55.7	30.0	FAIL	PASS	↓ rerun
Trichlorofluoromethane	2.969	0.100	10.00	10.08	-0.8	30.0	PASS	PASS	
1,1-Dichloroethene	7.301	0.100	10.00	10.08	-0.8	20.0	PASS	PASS	
Acetone	2.936	0.100	20.00	16.88	15.6	40.0	PASS	PASS	
Carbon disulfide	5.749	0.100	20.00	21.54	-7.7	40.0	PASS	PASS	
Iodomethane	4.945	0.100	20.00	11.41	42.9	40.0	FAIL	PASS	NA
Methyl tert-butyl ether (MTBE)	4.722	0.100	20.00	12.56	37.2	30.0	FAIL	PASS	↓ rerun
Isopropyl ether	38.332	0.100	20.00	22.92	-14.6	40.0	PASS	PASS	
tert-Butyl alcohol	0.248	0.100	200.00	68.32	65.8	40.0	FAIL	PASS	NA
trans-1,2-DCE	13.587	0.100	10.00	9.47	5.3	30.0	PASS	PASS	
tert-Butyl ethyl ether	108.354	0.100	20.00	21.47	-7.4	40.0	PASS	PASS	
Methylene Chloride	10.265	0.100	10.00	12.23	-22.3	30.0	PASS	PASS	
1,1-Dichloroethane	3.139	0.100	10.00	12.18	-21.8	30.0	PASS	PASS	
Vinyl acetate	9.817	0.100	20.00	11.47	42.6	40.0	FAIL	PASS	↓ rerun
2,2-Dichloropropane	0.265	0.100	10.00	1.01	89.9	30.0	FAIL	PASS	↓ rerun
2-Butanone	6.611	0.100	20.00	15.12	24.4	40.0	PASS	PASS	
1,1,1-Trichloroethane	3.947	0.100	10.00	8.45	15.5	30.0	PASS	PASS	
1,1-Dichloropropene	7.259	0.100	10.00	9.51	4.9	30.0	PASS	PASS	
tert-Amyl methyl ether	32.691	0.100	20.00	21.35	-6.8	40.0	PASS	PASS	ccg 7-28-14
Carbon Tetrachloride	2.086	0.100	10.00	11.03	-10.3	30.0	PASS	PASS	
cis-1,2-DCE	2.870	0.100	10.00	9.80	2.0	30.0	PASS	PASS	
Benzene	9.707	0.100	10.00	9.66	3.4	30.0	PASS	PASS	
Chloroform	5.156	0.100	10.00	9.84	1.6	20.0	PASS	PASS	
Bromochloromethane	3.819	0.100	10.00	9.64	3.6	30.0	PASS	PASS	
Trichloroethene (TCE)	15.717	0.100	10.00	9.82	1.8	30.0	PASS	PASS	VB 7/30/14
Dibromofluoromethane	3.196	0.100	20.00	21.30	-6.5	30.0	PASS	PASS	
1,2-Dichloroethane-d4	10.726	0.100	20.00	19.48	2.6	30.0	PASS	PASS	
1,2-Dichloroethane (EDC)	65.060	0.100	10.00	10.10	-1.0	30.0	PASS	PASS	
1,2-Dichloropropane	18.568	0.100	10.00	10.06	-0.6	20.0	PASS	PASS	
4-Methyl-2-pentanone	6.300	0.100	20.00	18.73	6.4	40.0	PASS	PASS	
Toluene-d8	1.811	0.100	20.00	19.30	3.5	30.0	PASS	PASS	

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.602	0.100	10.00	9.83	1.7	20.0	PASS	PASS
2-Chloroethyl vinyl ether	4.089	0.100	20.00	10.73	46.4	40.0	FAIL	PASS
cis-1,3-dichloropropene	15.898	0.100	10.00	9.23	7.7	30.0	PASS	PASS
Bromodichloromethane	3.188	0.100	10.00	10.71	-7.1	30.0	PASS	PASS
2-Hexanone	17.244	0.100	20.00	18.73	6.4	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.871	0.100	10.00	9.32	6.8	30.0	PASS	PASS
Dibromomethane	6.808	0.100	10.00	12.32	-23.2	30.0	PASS	PASS
1,3-Dichloropropane	6.484	0.100	10.00	11.15	-11.5	30.0	PASS	PASS
trans-1,3-dichloropropene	3.050	0.100	10.00	9.56	4.4	30.0	PASS	PASS
Ethylbenzene	12.182	0.100	10.00	9.74	2.6	20.0	PASS	PASS
mp-Xylenes	10.662	0.100	20.00	19.76	1.2	30.0	PASS	PASS
1,1,2-Trichloroethane	7.699	0.100	10.00	11.04	-10.4	30.0	PASS	PASS
Chlorobenzene	5.708	0.300	10.00	10.15	-1.5	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.940	0.100	10.00	11.49	-14.9	30.0	PASS	PASS
o-Xylene	11.385	0.100	10.00	10.14	-1.4	30.0	PASS	PASS
Dibromochloromethane	1.684	0.100	10.00	10.80	-8.0	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.671	0.100	10.00	10.63	-6.3	30.0	PASS	PASS
Isopropylbenzene	10.891	0.100	10.00	9.72	2.8	30.0	PASS	PASS
Styrene	5.654	0.100	10.00	9.76	2.4	30.0	PASS	PASS
n-Propylbenzene	37.291	0.100	10.00	9.66	3.4	30.0	PASS	PASS
1,3,5-Trimethylbenzene	27.388	0.100	10.00	9.70	3.0	30.0	PASS	PASS
tert-Butylbenzene	31.297	0.100	10.00	9.77	2.3	30.0	PASS	PASS
2-Chlorotoluene	10.031	0.100	10.00	10.64	-6.4	30.0	PASS	PASS
4-Bromofluorobenzene	2.614	0.100	20.00	20.35	-1.8	30.0	PASS	PASS
Bromobenzene	45.117	0.100	10.00	11.12	-11.2	30.0	PASS	PASS
4-Chlorotoluene	65.208	0.100	10.00	10.36	-3.6	30.0	PASS	PASS
sec-Butylbenzene	38.677	0.100	10.00	9.50	5.0	30.0	PASS	PASS
1,2,4-Trimethylbenzene	91.400	0.100	10.00	10.03	-0.3	30.0	PASS	PASS
4-Isopropyltoluene	29.601	0.100	10.00	9.69	3.1	30.0	PASS	PASS
Bromoform	11.853	0.100	10.00	9.66	3.4	30.0	PASS	PASS
1,2,3-Trichloropropane	14.904	0.100	10.00	10.61	-6.1	30.0	PASS	PASS
n-Butylbenzene	49.862	0.100	10.00	10.19	-1.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	46.745	0.300	10.00	9.82	1.8	30.0	PASS	PASS
1,3-Dichlorobenzene	13.337	0.100	10.00	10.44	-4.4	30.0	PASS	PASS
1,4-Dichlorobenzene	12.405	0.100	10.00	10.28	-2.8	30.0	PASS	PASS
1,2-Dichlorobenzene	13.032	0.100	10.00	10.60	-6.0	30.0	PASS	PASS
Hexachlorobutadiene	26.852	0.100	10.00	9.54	4.6	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	11.896	0.100	10.00	9.07	9.3	30.0	PASS	PASS
1,2,4-Trichlorobenzene	39.420	0.100	10.00	10.64	-6.4	30.0	PASS	PASS
Naphthalene	17.999	0.100	10.00	9.70	3.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	37.568	0.100	10.00	12.15	-21.5	30.0	PASS	PASS
2-Methylnaphthalene	29.335	0.100	10.00	8.23	17.7	40.0	PASS	PASS
1-Methylnaphthalene	43.741	0.100	10.00	9.01	9.9	40.0	PASS	PASS

NL

CCV 7-28-14

✓ NB 7/30/14

Analyst: cadg

LVL-3

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407C55**
Date Reported:

dam 7/29/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407C55

Lab ID: 1407C55-001
Client Sample ID: FFOR-CF-0032

Collection Date: 07/25/14 9:06:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Acenaphthylene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Aniline	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Benz(a)anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Benzo(a)pyrene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Benzo(b)fluoranthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Benzo(g,h,i)perylene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Benzo(k)fluoranthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Bis(2-chloroethoxy)methane	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Bis(2-chloroethyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Bis(2-chloroisopropyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Bromophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Butyl benzyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Carbazole	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Chloronaphthalene	ND	0.57		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Chlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Chlorophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Chrysene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Di-n-octyl phthalate	ND	0.92		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Dibenz(a,h)anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Dibenzofuran	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
1,2-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
1,3-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
1,4-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
3,3'-Dichlorobenzidine	ND	0.57		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Diethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Dimethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4-Dichlorophenol	ND	0.92		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4-Dimethylphenol	ND	0.69		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14447	07/28/14 3:43:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Fluorene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Hexachlorobenzene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Hexachlorobutadiene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Hexachlorocyclopentadiene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Hexachloroethane	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Indeno(1,2,3-cd)pyrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Isophorone	ND	1.1	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Methylnaphthalene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Methylphenol	ND	1.1	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
3+4-Methylphenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
N-Nitrosodi-n-propylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
N-Nitrosodimethylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
N-Nitrosodiphenylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Naphthalene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
3-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Nitroaniline	ND	0.92	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Nitrobenzene	ND	1.1	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2-Nitrophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
4-Nitrophenol	ND	0.57	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Pentachlorophenol	ND	0.92	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Phenanthrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Phenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Pyrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Pyridine	ND	1.1	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
1,2,4-Trichlorobenzene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4,5-Trichlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
2,4,6-Trichlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 3:43:53 PM
Surr: 2-Fluorophenol	78.7	21-111	%REC	1	14447	07/28/14 3:43:53 PM
Surr: Phenol-d5	71.8	23.1-117	%REC	1	14447	07/28/14 3:43:53 PM
Surr: 2,4,6-Tribromophenol	73.1	22.7-88.9	%REC	1	14447	07/28/14 3:43:53 PM
Surr: Nitrobenzene-d5	80.8	24.5-126	%REC	1	14447	07/28/14 3:43:53 PM
Surr: 2-Fluorobiphenyl	84.9	21.2-129	%REC	1	14447	07/28/14 3:43:53 PM
Surr: 4-Terphenyl-d14	74.5	39.4-107	%REC	1	14447	07/28/14 3:43:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-002
Client Sample ID: FFOR-CF-0033
Collection Date: 07/25/14 9:06:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Acenaphthylene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Aniline	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Benz(a)anthracene	0.28	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Benzo(a)pyrene	0.29	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Benzo(b)fluoranthene	0.47	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Benzo(g,h,i)perylene	0.28	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Benzo(k)fluoranthene	0.20	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Bis(2-chloroethoxy)methane	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Bis(2-chloroethyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Bis(2-chloroisopropyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Bis(2-ethylhexyl)phthalate	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Bromophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Butyl benzyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Carbazole	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Chloro-3-methylphenol	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Chloroaniline	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Chloronaphthalene	ND	0.58		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Chlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Chlorophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Chrysene	0.33	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Di-n-butyl phthalate	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Di-n-octyl phthalate	ND	0.93		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Dibenz(a,h)anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Dibenzofuran	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
1,2-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
1,3-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
1,4-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
3,3'-Dichlorobenzidine	ND	0.58		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Diethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Dimethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4-Dichlorophenol	ND	0.93		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4-Dimethylphenol	ND	0.69		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4,6-Dinitro-2-methylphenol	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4-Dinitrophenol	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4-Dinitrotoluene	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,6-Dinitrotoluene	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	0.28	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Fluorene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Hexachlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Hexachlorobutadiene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Hexachlorocyclopentadiene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Hexachloroethane	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Indeno(1,2,3-cd)pyrene	0.26	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Isophorone	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Methylnaphthalene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Methylphenol	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
3+4-Methylphenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
N-Nitrosodi-n-propylamine	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
N-Nitrosodimethylamine	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
N-Nitrosodiphenylamine	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Naphthalene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Nitroaniline	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
3-Nitroaniline	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Nitroaniline	ND	0.93		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Nitrobenzene	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2-Nitrophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
4-Nitrophenol	ND	0.58		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Pentachlorophenol	ND	0.93		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Phenanthrene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Phenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Pyrene	0.31	0.46	J	mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Pyridine	ND	1.2		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
1,2,4-Trichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4,5-Trichlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
2,4,6-Trichlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:11:32 PM
Surr: 2-Fluorophenol	81.6	21-111		%REC	1	14447	07/28/14 5:11:32 PM
Surr: Phenol-d5	76.0	23.1-117		%REC	1	14447	07/28/14 5:11:32 PM
Surr: 2,4,6-Tribromophenol	72.6	22.7-88.9		%REC	1	14447	07/28/14 5:11:32 PM
Surr: Nitrobenzene-d5	81.5	24.5-126		%REC	1	14447	07/28/14 5:11:32 PM
Surr: 2-Fluorobiphenyl	80.4	21.2-129		%REC	1	14447	07/28/14 5:11:32 PM
Surr: 4-Terphenyl-d14	75.9	39.4-107		%REC	1	14447	07/28/14 5:11:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-003
Client Sample ID: FFOR-CF-0034
Collection Date: 07/25/14 9:20:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Acenaphthylene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Aniline	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Benz(a)anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Benzo(a)pyrene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Benzo(b)fluoranthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Benzo(g,h,i)perylene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Benzo(k)fluoranthene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Bis(2-chloroethoxy)methane	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Bis(2-chloroethyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Bis(2-chloroisopropyl)ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Bromophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Butyl benzyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Carbazole	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Chloronaphthalene	ND	0.57		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Chlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Chlorophenyl phenyl ether	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Chrysene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Di-n-octyl phthalate	ND	0.92		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Dibenz(a,h)anthracene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Dibenzofuran	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
1,2-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
1,3-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
1,4-Dichlorobenzene	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
3,3'-Dichlorobenzidine	ND	0.57		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Diethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Dimethyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4-Dichlorophenol	ND	0.92		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4-Dimethylphenol	ND	0.69		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14447	07/28/14 5:40:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Fluorene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Hexachlorobenzene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Hexachlorobutadiene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Hexachlorocyclopentadiene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Hexachloroethane	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Indeno(1,2,3-cd)pyrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Isophorone	ND	1.1	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Methylnaphthalene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Methylphenol	ND	1.1	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
3+4-Methylphenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
N-Nitrosodi-n-propylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
N-Nitrosodimethylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
N-Nitrosodiphenylamine	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Naphthalene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
3-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Nitroaniline	ND	0.92	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Nitrobenzene	ND	1.1	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2-Nitrophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
4-Nitrophenol	ND	0.57	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Pentachlorophenol	ND	0.92	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Phenanthrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Phenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Pyrene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Pyridine	ND	1.1	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
1,2,4-Trichlorobenzene	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4,5-Trichlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
2,4,6-Trichlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 5:40:48 PM
Surr: 2-Fluorophenol	90.6	21-111	%REC	1	14447	07/28/14 5:40:48 PM
Surr: Phenol-d5	86.5	23.1-117	%REC	1	14447	07/28/14 5:40:48 PM
Surr: 2,4,6-Tribromophenol	80.3	22.7-88.9	%REC	1	14447	07/28/14 5:40:48 PM
Surr: Nitrobenzene-d5	89.9	24.5-126	%REC	1	14447	07/28/14 5:40:48 PM
Surr: 2-Fluorobiphenyl	91.4	21.2-129	%REC	1	14447	07/28/14 5:40:48 PM
Surr: 4-Terphenyl-d14	84.3	39.4-107	%REC	1	14447	07/28/14 5:40:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-004
Client Sample ID: FFOR-CF-0035
Collection Date: 07/25/14 9:28:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Acenaphthylene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Aniline	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Anthracene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Benz(a)anthracene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Benzo(a)pyrene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Benzo(b)fluoranthene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Benzo(g,h,i)perylene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Benzo(k)fluoranthene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Bis(2-chloroethoxy)methane	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Bis(2-chloroethyl)ether	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Bis(2-chloroisopropyl)ether	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Bis(2-ethylhexyl)phthalate	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Bromophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Butyl benzyl phthalate	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Carbazole	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Chloro-3-methylphenol	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Chloroaniline	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Chloronaphthalene	ND	0.29		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Chlorophenol	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Chlorophenyl phenyl ether	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Chrysene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Di-n-butyl phthalate	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Di-n-octyl phthalate	ND	0.47		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Dibenz(a,h)anthracene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Dibenzofuran	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
1,2-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
1,3-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
1,4-Dichlorobenzene	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
3,3'-Dichlorobenzidine	ND	0.29		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Diethyl phthalate	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Dimethyl phthalate	ND	0.24		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4-Dichlorophenol	ND	0.47		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4-Dimethylphenol	ND	0.35		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4,6-Dinitro-2-methylphenol	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4-Dinitrophenol	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4-Dinitrotoluene	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,6-Dinitrotoluene	ND	0.59		mg/Kg-dry	1	14447	07/28/14 6:10:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Fluorene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Hexachlorobenzene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Hexachlorobutadiene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Hexachlorocyclopentadiene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Hexachloroethane	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Isophorone	ND	0.59	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Methylnaphthalene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Methylphenol	ND	0.59	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
3+4-Methylphenol	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
N-Nitrosodi-n-propylamine	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
N-Nitrosodimethylamine	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
N-Nitrosodiphenylamine	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Naphthalene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Nitroaniline	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
3-Nitroaniline	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Nitroaniline	ND	0.47	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Nitrobenzene	ND	0.59	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2-Nitrophenol	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
4-Nitrophenol	ND	0.29	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Pentachlorophenol	ND	0.47	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Phenanthrene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Phenol	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Pyrene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Pyridine	ND	0.59	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
1,2,4-Trichlorobenzene	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4,5-Trichlorophenol	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
2,4,6-Trichlorophenol	ND	0.24	mg/Kg-dry	1	14447	07/28/14 6:10:02 PM
Surr: 2-Fluorophenol	74.0	21-111	%REC	1	14447	07/28/14 6:10:02 PM
Surr: Phenol-d5	72.8	23.1-117	%REC	1	14447	07/28/14 6:10:02 PM
Surr: 2,4,6-Tribromophenol	66.0	22.7-88.9	%REC	1	14447	07/28/14 6:10:02 PM
Surr: Nitrobenzene-d5	77.8	24.5-126	%REC	1	14447	07/28/14 6:10:02 PM
Surr: 2-Fluorobiphenyl	72.9	21.2-129	%REC	1	14447	07/28/14 6:10:02 PM
Surr: 4-Terphenyl-d14	75.8	39.4-107	%REC	1	14447	07/28/14 6:10:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-005
Collection Date: 07/25/14 9:37:00 AM
Client Sample ID: FFOR-CF-0036
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Aniline	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Benz(a)anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Benzo(a)pyrene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Benzo(b)fluoranthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Benzo(g,h,i)perylene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Bis(2-ethylhexyl)phthalate	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Carbazole	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Chloro-3-methylphenol	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Chloroaniline	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Chloronaphthalene	ND	0.29		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Chrysene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Di-n-butyl phthalate	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Di-n-octyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Dibenz(a,h)anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Dibenzofuran	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
3,3'-Dichlorobenzidine	ND	0.29		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4-Dichlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4-Dimethylphenol	ND	0.35		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4,6-Dinitro-2-methylphenol	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4-Dinitrophenol	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4-Dinitrotoluene	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,6-Dinitrotoluene	ND	0.58		mg/Kg-dry	1	14447	07/28/14 6:39:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Fluorene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Hexachlorobenzene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Hexachlorobutadiene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Hexachlorocyclopentadiene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Hexachloroethane	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Isophorone	ND	0.58	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Methylnaphthalene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Methylphenol	ND	0.58	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
3+4-Methylphenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
N-Nitrosodi-n-propylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
N-Nitrosodimethylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
N-Nitrosodiphenylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Naphthalene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Nitroaniline	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
3-Nitroaniline	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Nitrobenzene	ND	0.58	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2-Nitrophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
4-Nitrophenol	ND	0.29	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Pentachlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Phenanthrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Phenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Pyrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Pyridine	ND	0.58	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4,5-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
2,4,6-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 6:39:13 PM
Surr: 2-Fluorophenol	77.0	21-111	%REC	1	14447	07/28/14 6:39:13 PM
Surr: Phenol-d5	74.0	23.1-117	%REC	1	14447	07/28/14 6:39:13 PM
Surr: 2,4,6-Tribromophenol	69.2	22.7-88.9	%REC	1	14447	07/28/14 6:39:13 PM
Surr: Nitrobenzene-d5	80.8	24.5-126	%REC	1	14447	07/28/14 6:39:13 PM
Surr: 2-Fluorobiphenyl	76.9	21.2-129	%REC	1	14447	07/28/14 6:39:13 PM
Surr: 4-Terphenyl-d14	71.1	39.4-107	%REC	1	14447	07/28/14 6:39:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-006
Client Sample ID: FFOR-CF-0037
Collection Date: 07/25/14 3:30:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 7/30/14							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Aniline	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Benz(a)anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Benzo(a)pyrene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Benzo(b)fluoranthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Benzo(g,h,i)perylene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Bis(2-ethylhexyl)phthalate	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Carbazole	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Chloro-3-methylphenol	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Chloroaniline	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Chloronaphthalene	ND	0.29		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Chrysene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Di-n-butyl phthalate	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Di-n-octyl phthalate	ND	0.46		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Dibenz(a,h)anthracene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Dibenzofuran	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
3,3'-Dichlorobenzidine	ND	0.29		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4-Dichlorophenol	ND	0.46		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4,6-Dinitro-2-methylphenol	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4-Dinitrophenol	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4-Dinitrotoluene	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,6-Dinitrotoluene	ND	0.57		mg/Kg-dry	1	14447	07/28/14 7:08:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Comment: DUE 7/30/14

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Fluorene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Hexachlorobenzene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Hexachlorobutadiene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Hexachlorocyclopentadiene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Hexachloroethane	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Isophorone	ND	0.57	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Methylnaphthalene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Methylphenol	ND	0.57	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
3+4-Methylphenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
N-Nitrosodi-n-propylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
N-Nitrosodimethylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
N-Nitrosodiphenylamine	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Naphthalene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Nitroaniline	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
3-Nitroaniline	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Nitroaniline	ND	0.46	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Nitrobenzene	ND	0.57	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2-Nitrophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
4-Nitrophenol	ND	0.29	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Pentachlorophenol	ND	0.46	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Phenanthrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Phenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Pyrene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Pyridine	ND	0.57	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4,5-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
2,4,6-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14447	07/28/14 7:08:24 PM
Surr: 2-Fluorophenol	92.8	21-111	%REC	1	14447	07/28/14 7:08:24 PM
Surr: Phenol-d5	88.0	23.1-117	%REC	1	14447	07/28/14 7:08:24 PM
Surr: 2,4,6-Tribromophenol	72.6	22.7-88.9	%REC	1	14447	07/28/14 7:08:24 PM
Surr: Nitrobenzene-d5	91.1	24.5-126	%REC	1	14447	07/28/14 7:08:24 PM
Surr: 2-Fluorobiphenyl	88.2	21.2-129	%REC	1	14447	07/28/14 7:08:24 PM
Surr: 4-Terphenyl-d14	79.6	39.4-107	%REC	1	14447	07/28/14 7:08:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

an Star Workstation - 8400 SampleList Mon Apr 28 ...

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

TC
4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: dy and w.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

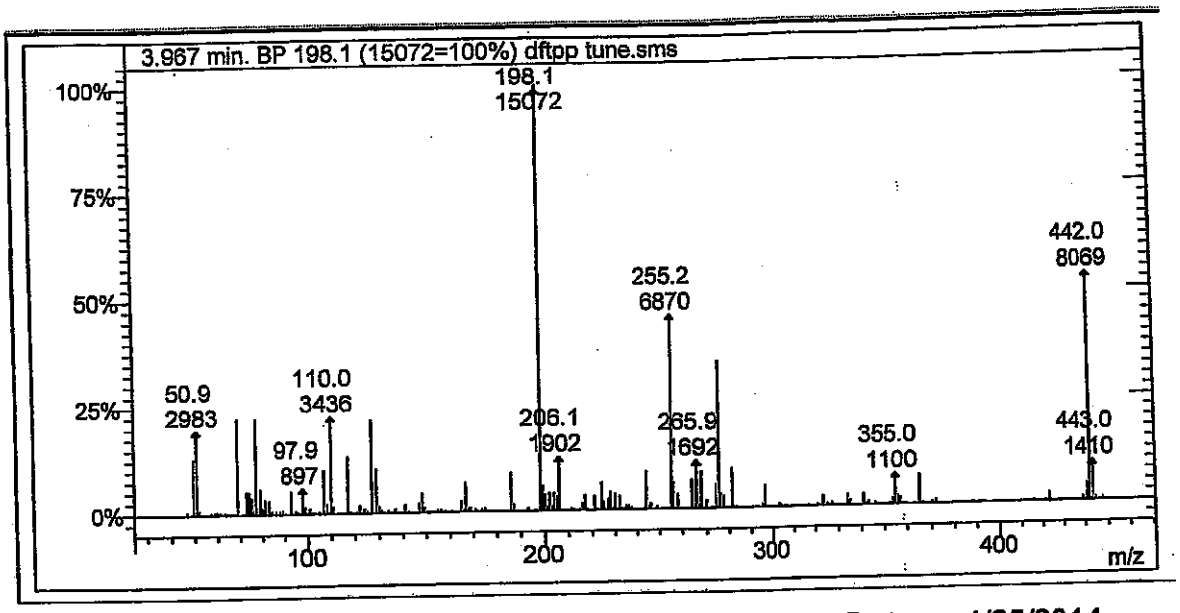
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

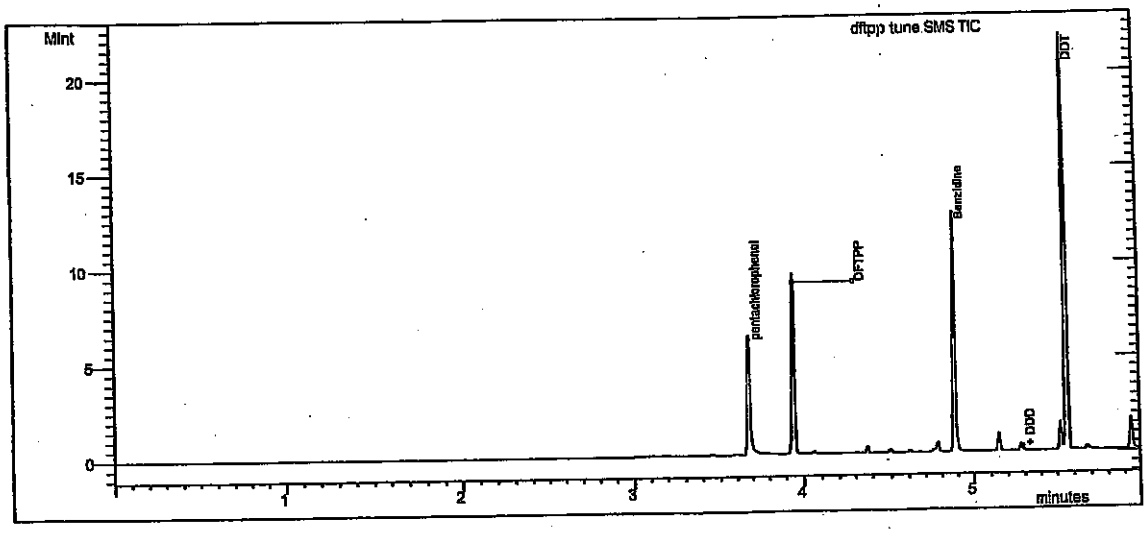
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

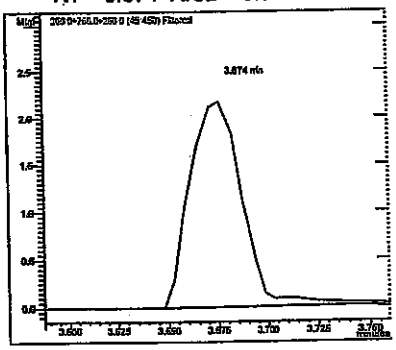
% Degradation of **DDT : =** .509 dam 4/28/14

TC 4-28-14

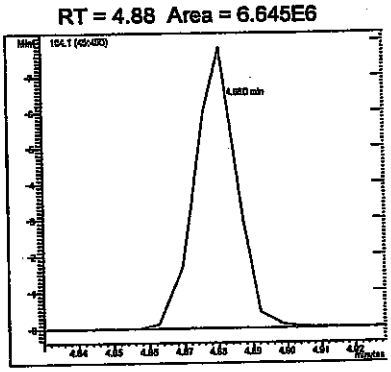
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

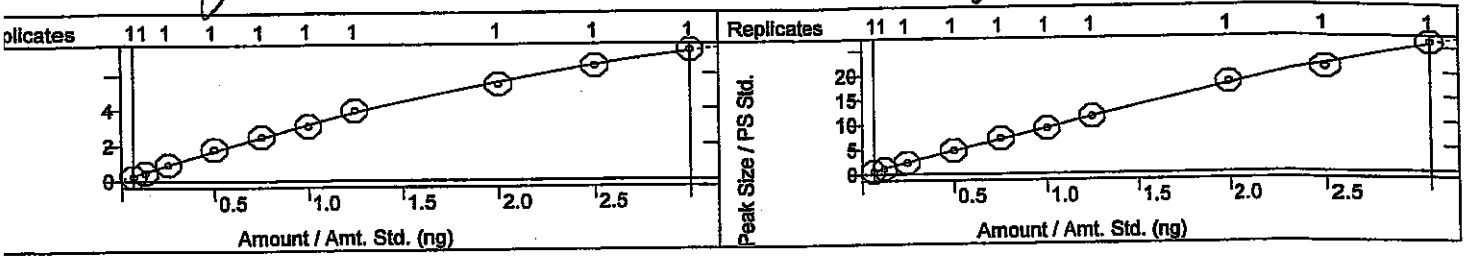
4/18/14

4.28.14

alibration Curves Report

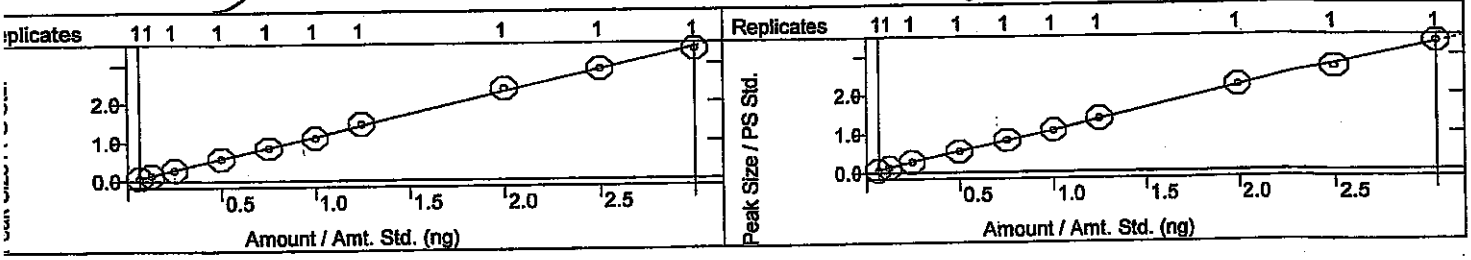
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



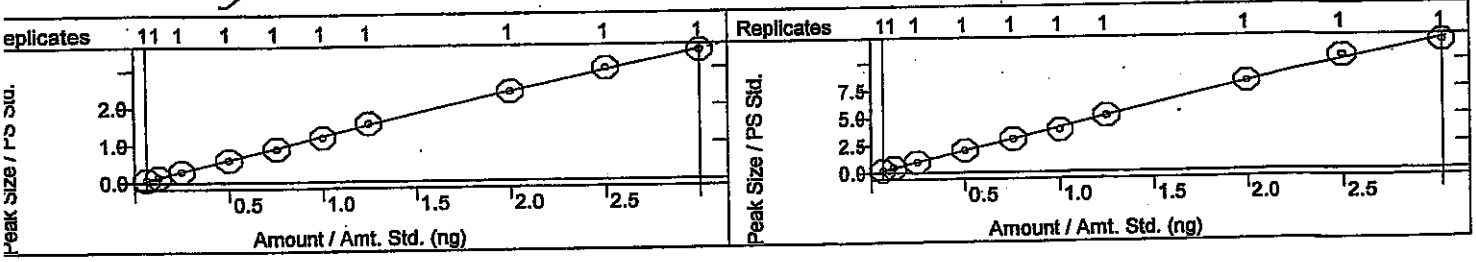
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022

-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



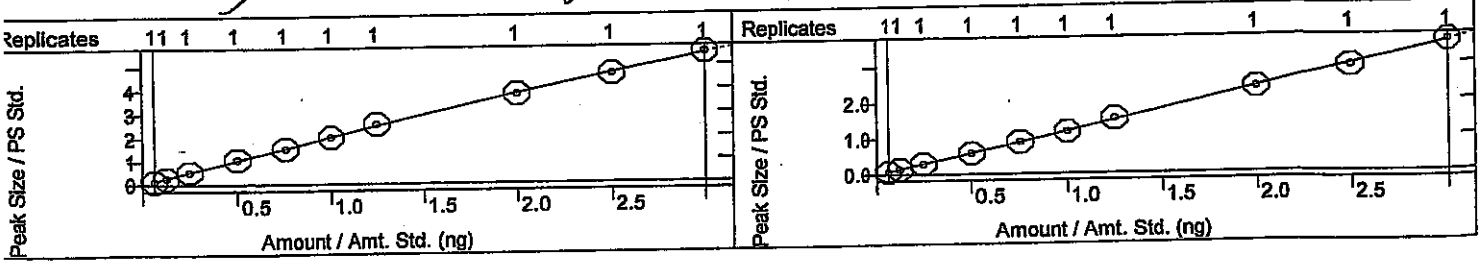
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040

henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979

Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242

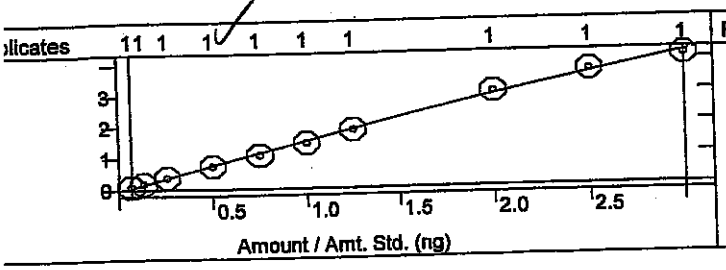


2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021

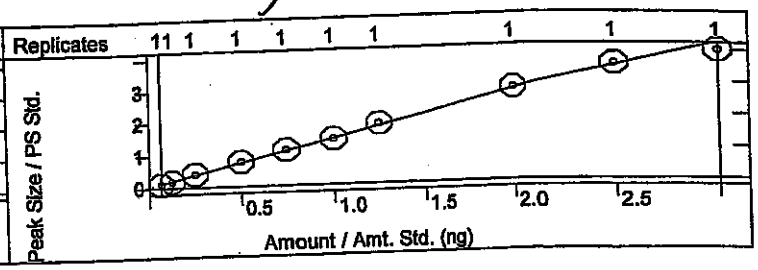
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

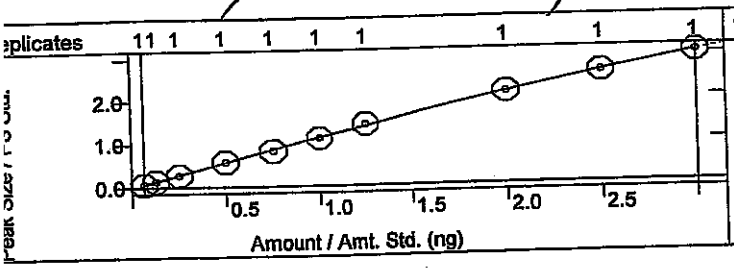
3-Dichlorobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
= -0.0693x2 +1.6278x -0.0442



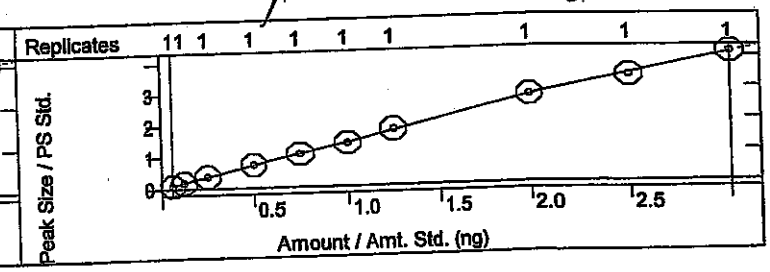
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



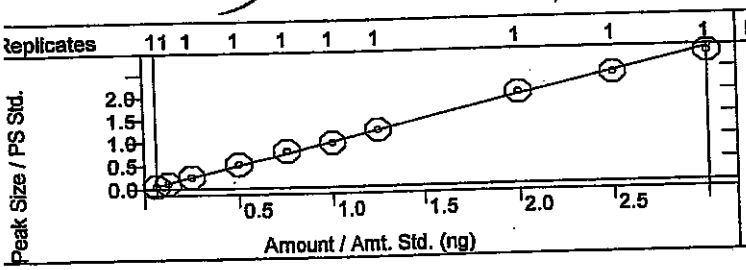
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



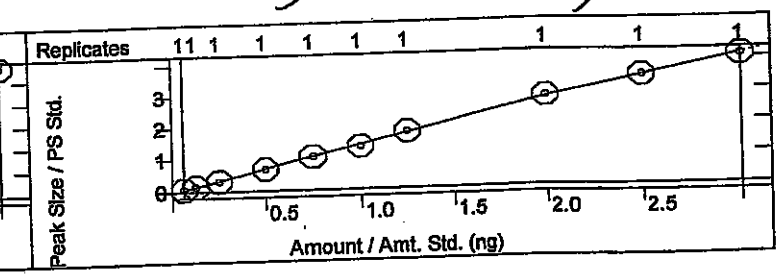
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



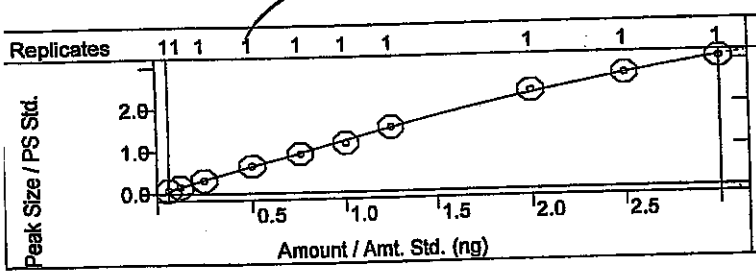
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



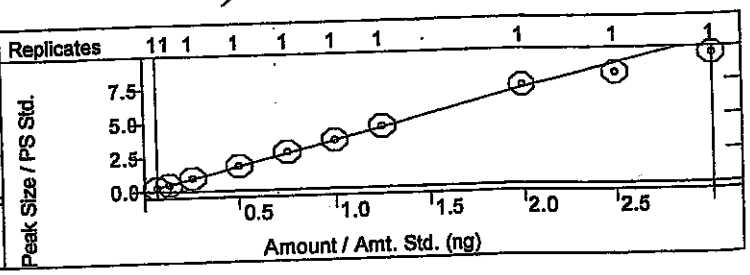
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



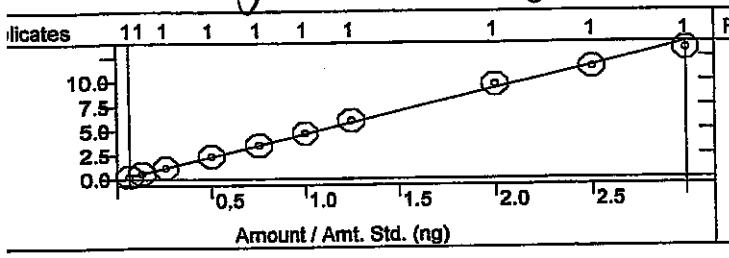
alibration Curves Report

vdam 4/28/14

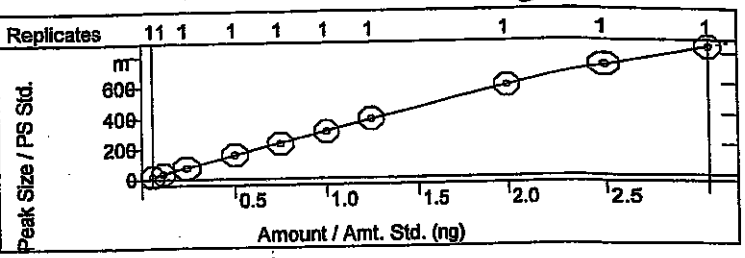
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4/28/14

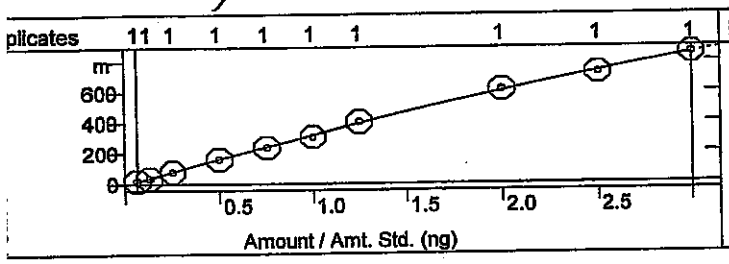
xachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



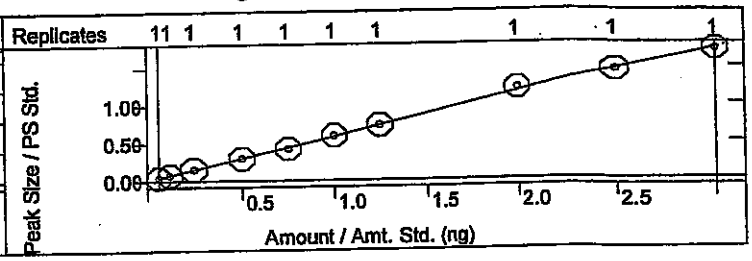
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



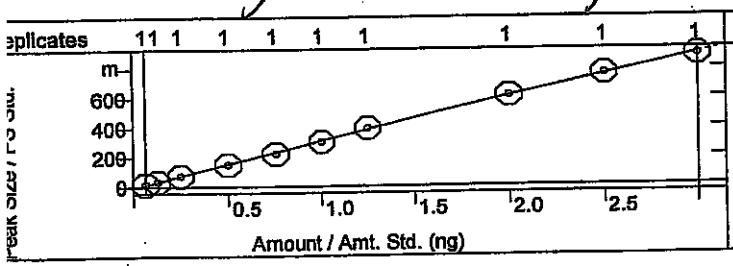
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



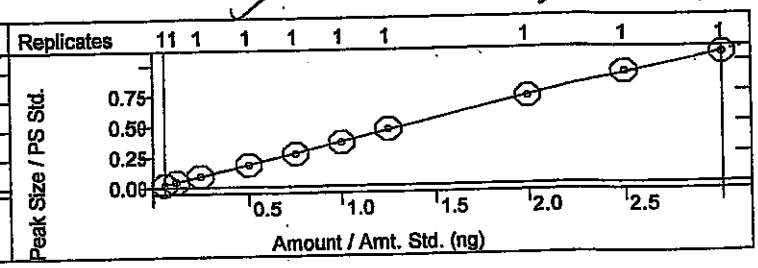
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



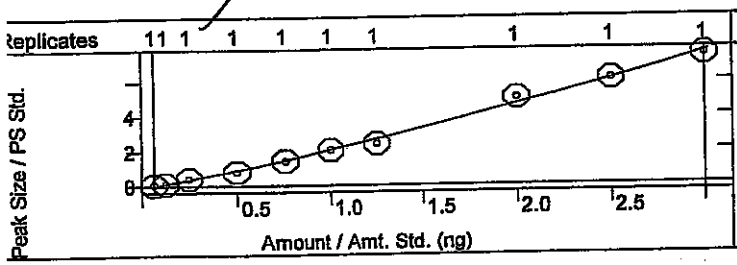
-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



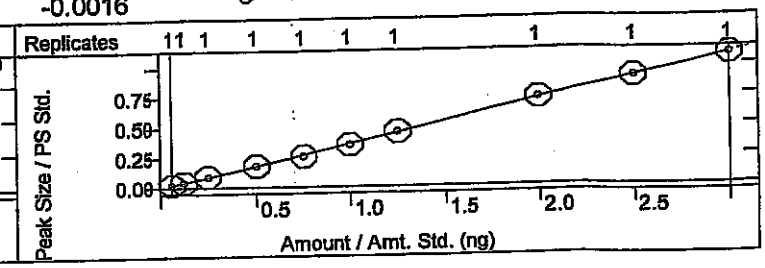
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



alibration Curves Report

√ dlm 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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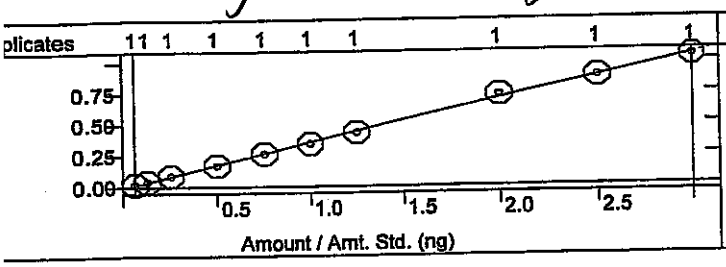
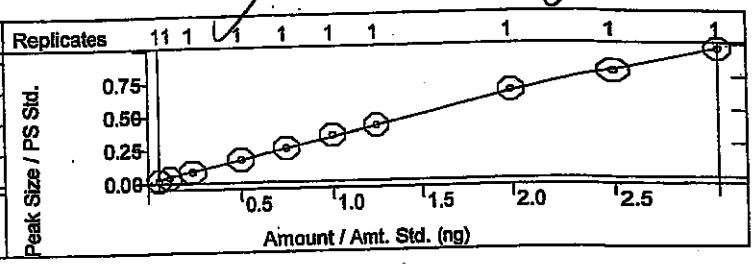
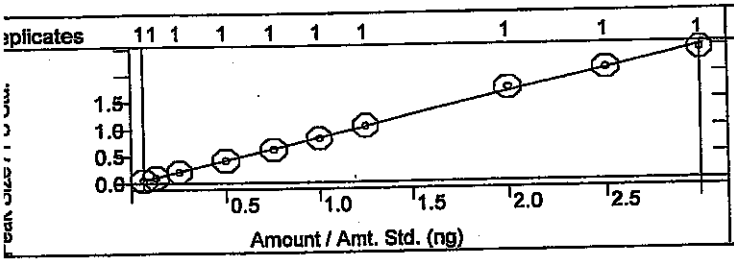
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



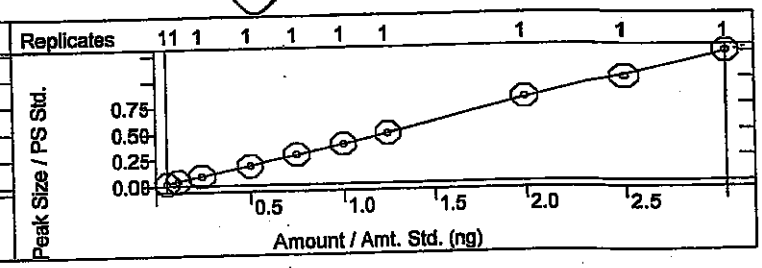
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



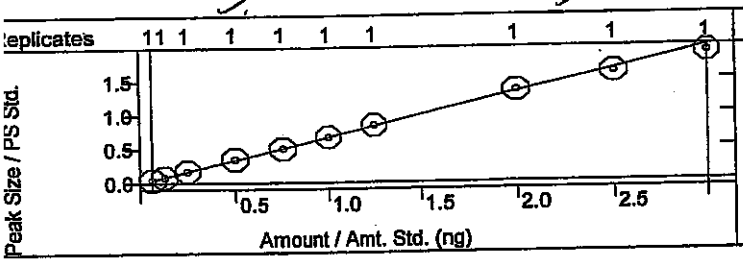
laphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



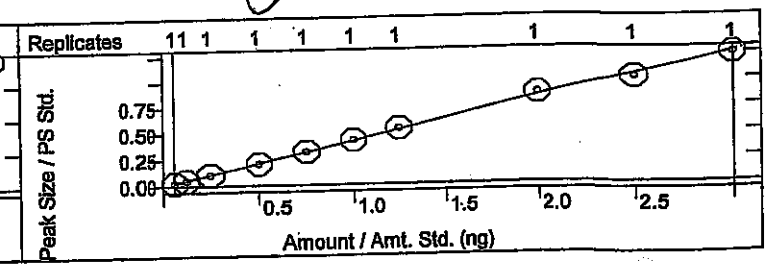
4-Chloroanlline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



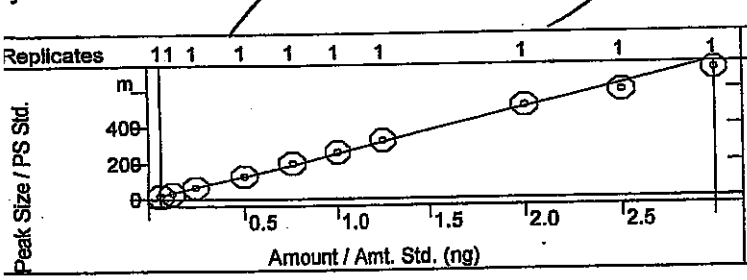
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
y = +0.6599x +0.0061



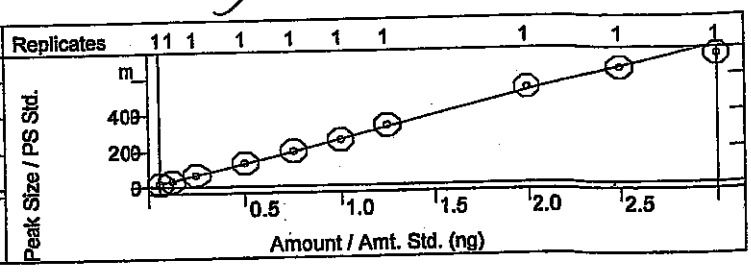
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



alibration Curves Report

dlm 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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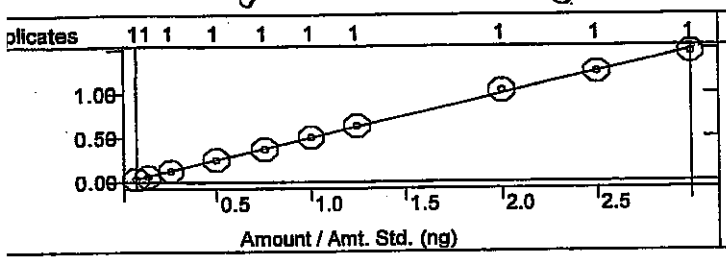
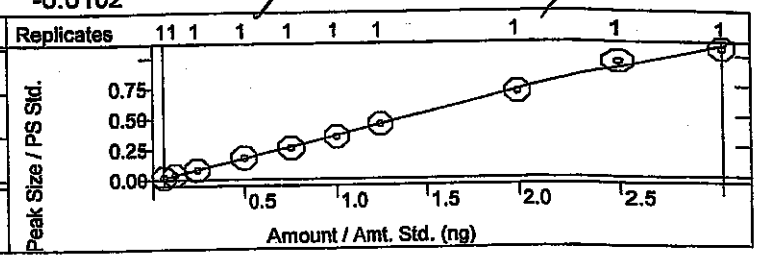
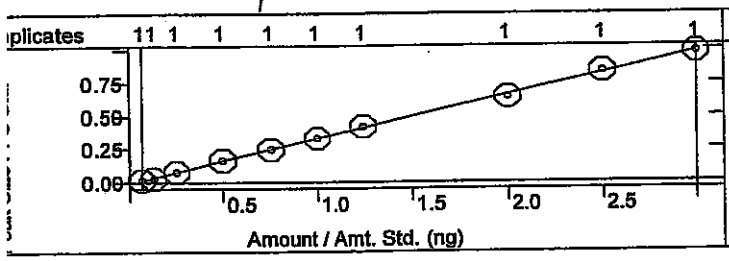
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



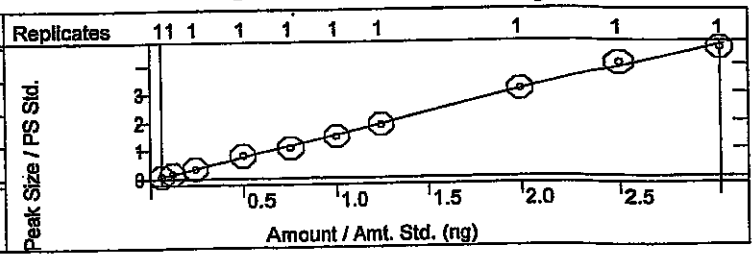
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



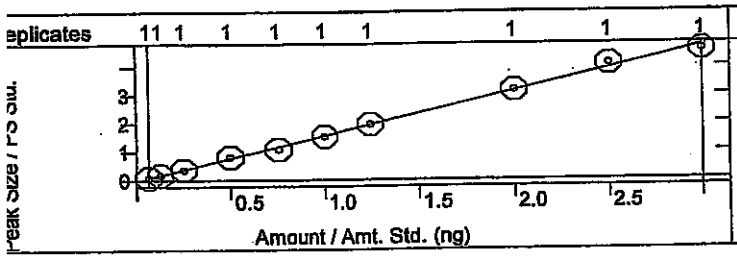
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



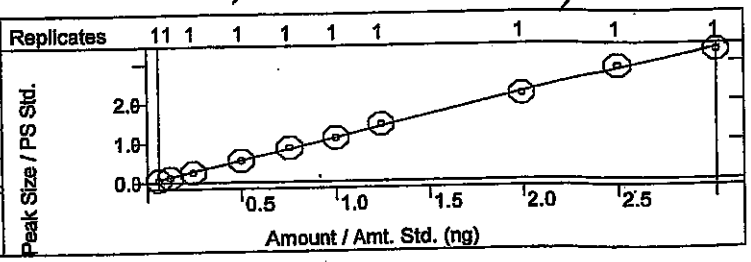
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



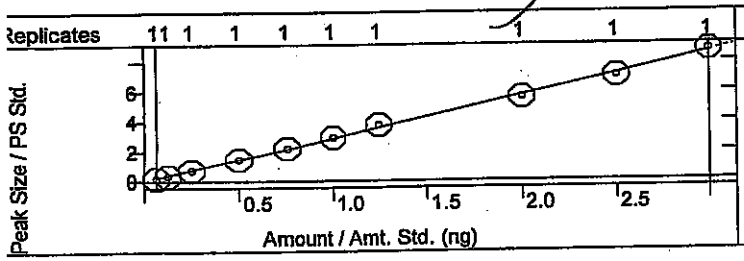
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



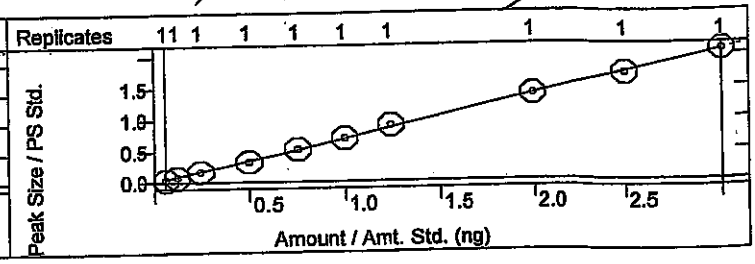
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



alibration Curves Report

J dam 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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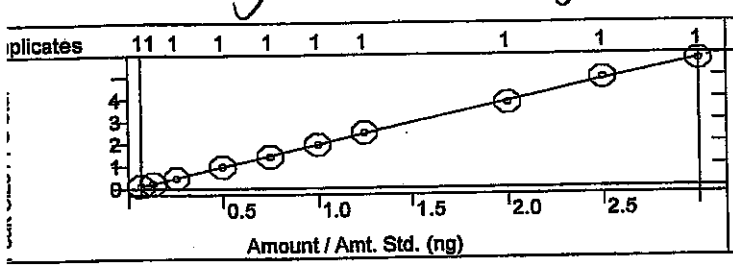
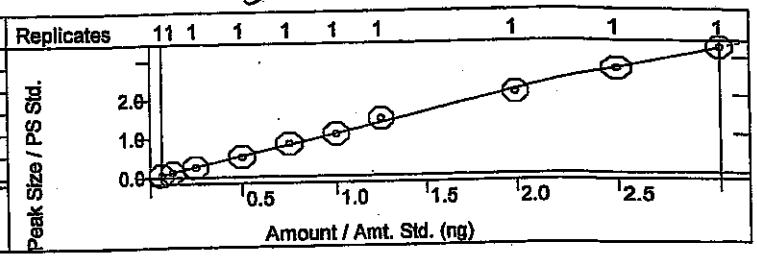
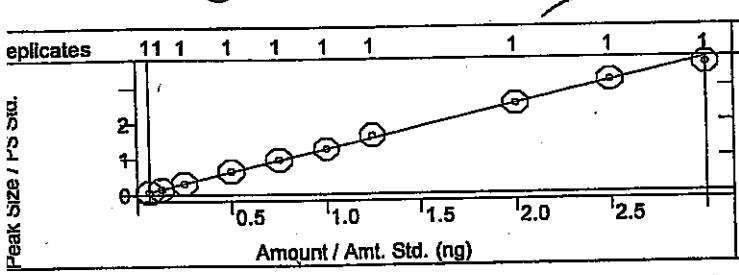
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



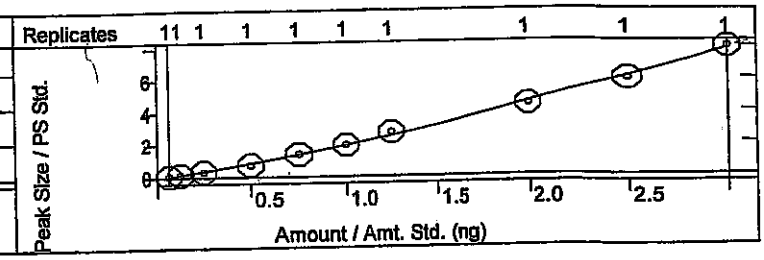
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



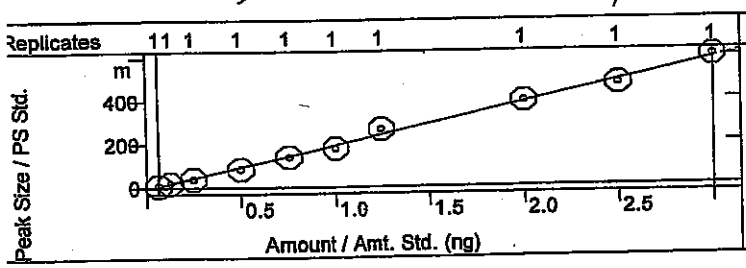
Acenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
y = +1.2637x -5.2278e-4



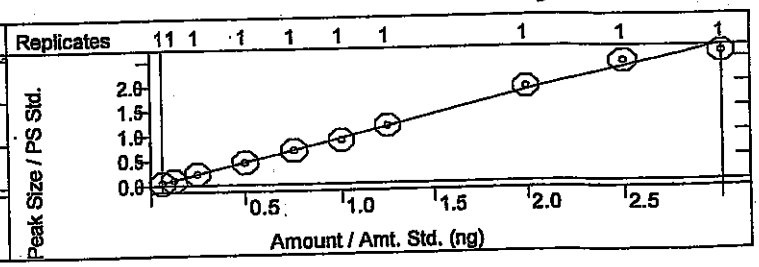
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



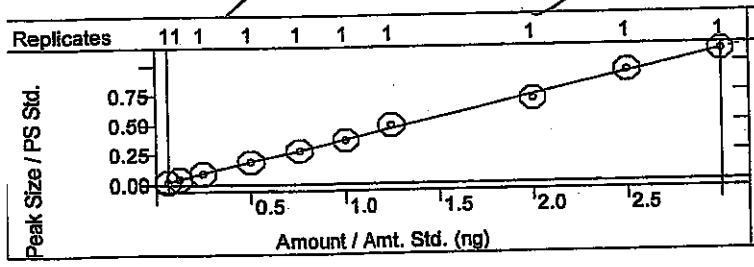
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



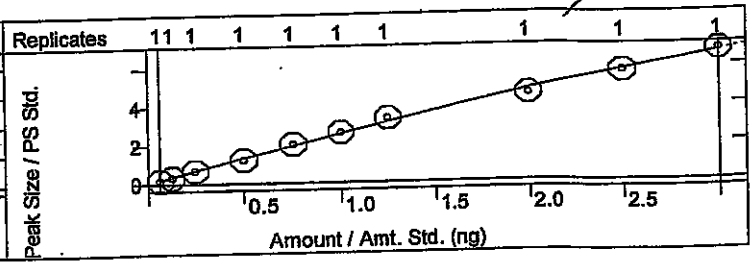
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



alibration Curves Report

J dlm 4/28/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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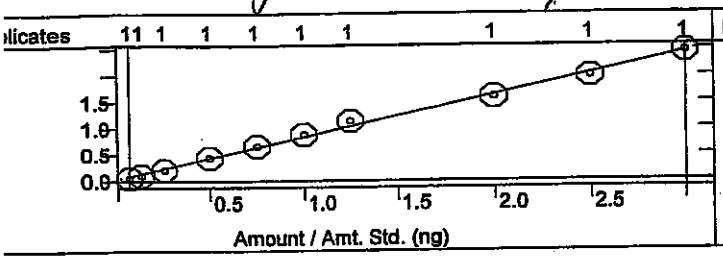
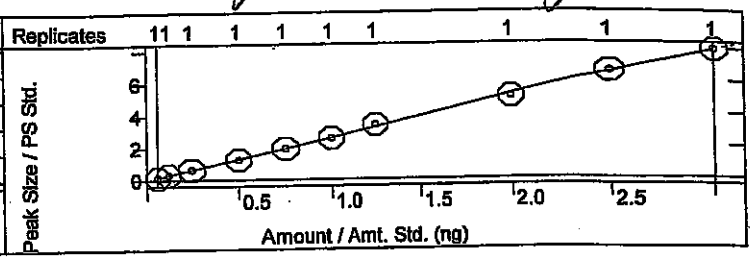
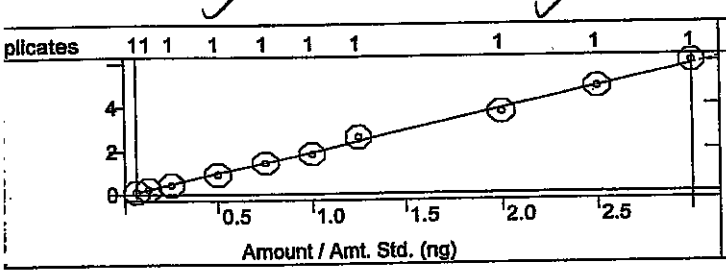
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



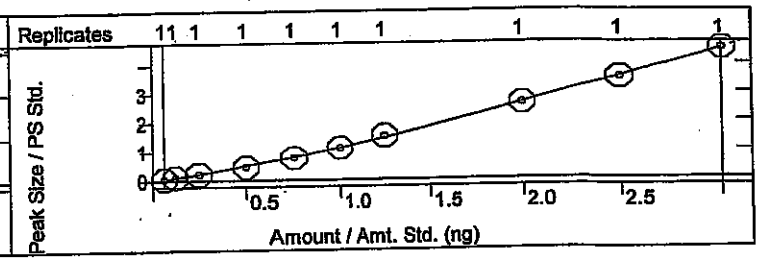
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



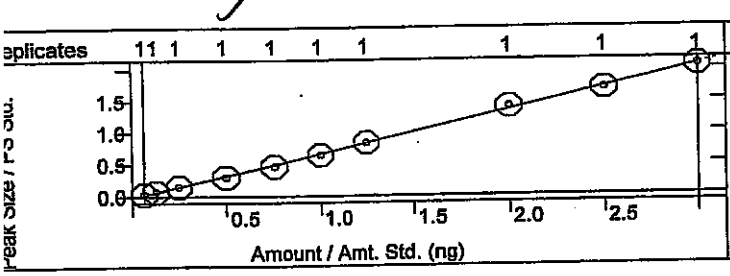
Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



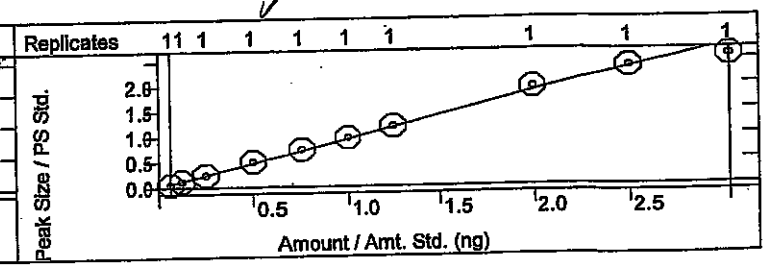
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



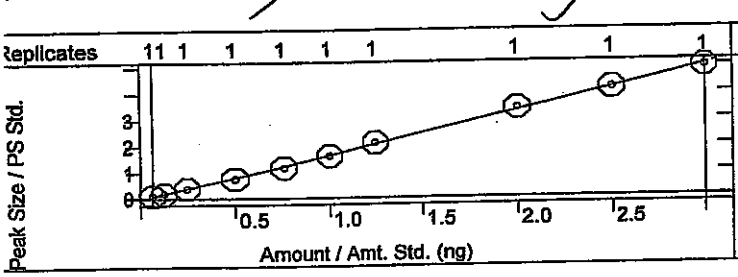
l-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



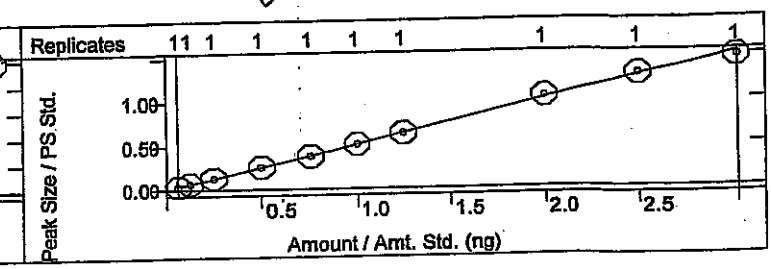
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



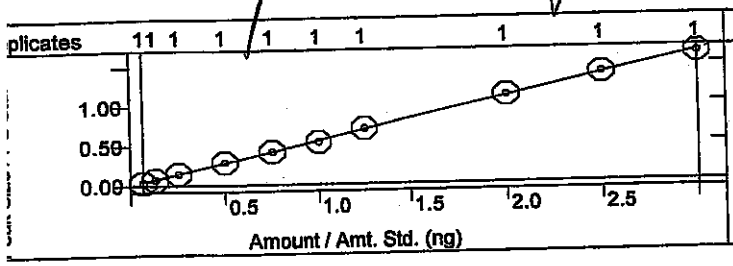
4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



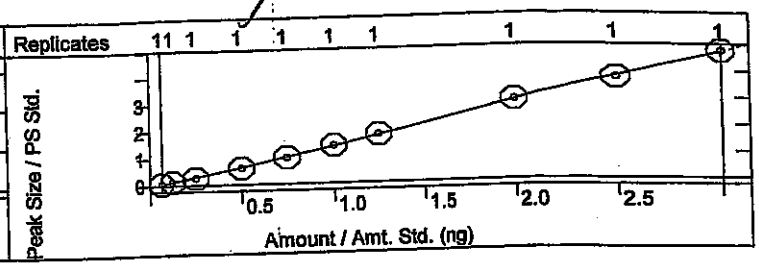
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
S Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
eak Measurement:	Area		

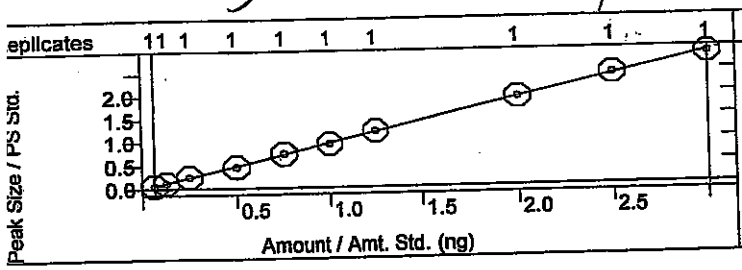
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



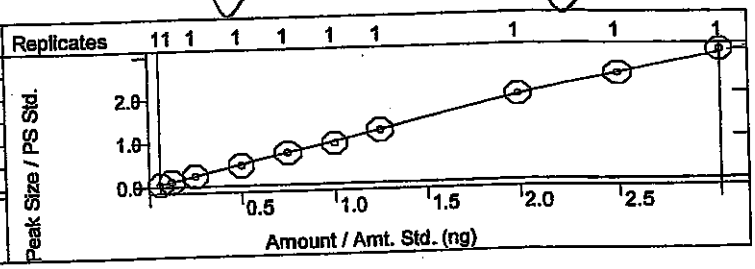
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



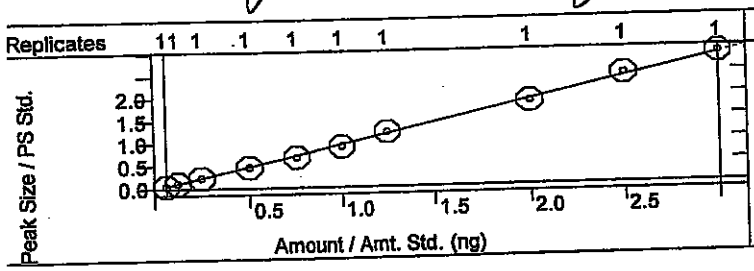
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



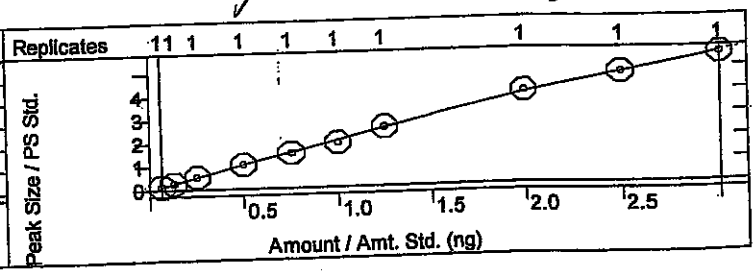
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



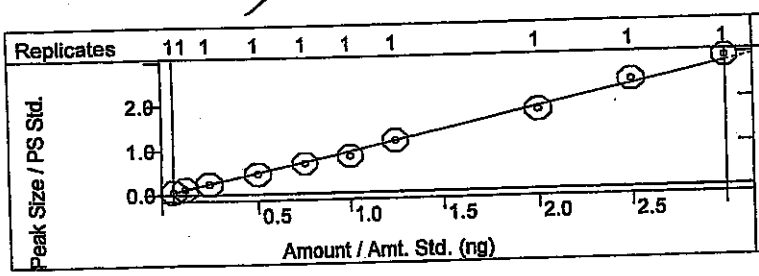
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



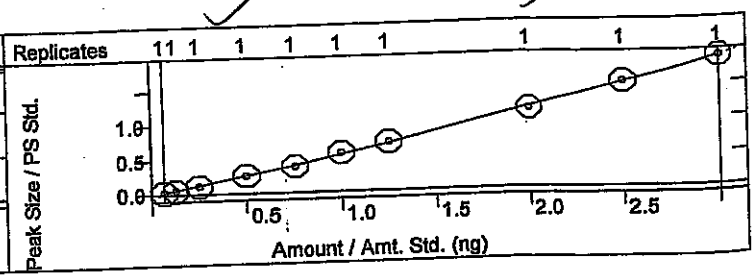
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



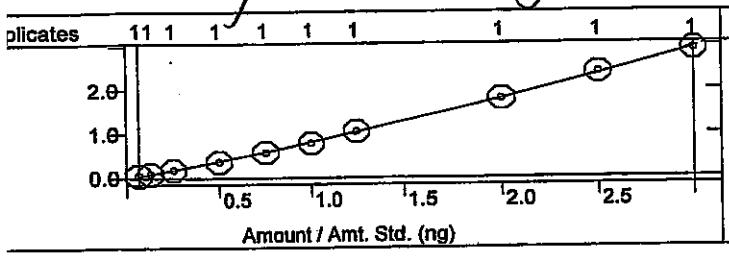
alibration Curves Report

J dlm 4/28/14

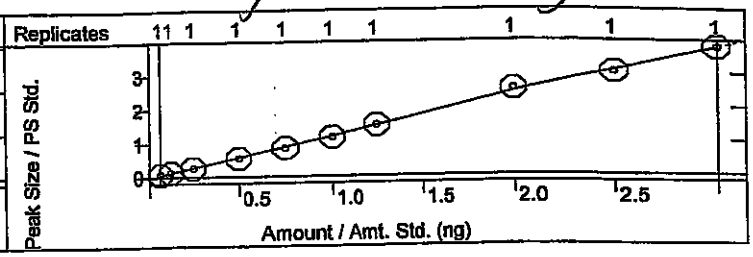
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4/25/14

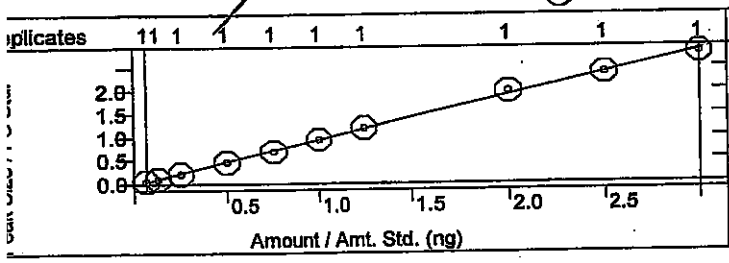
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



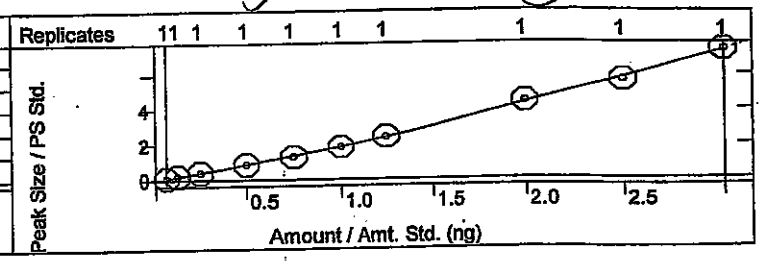
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



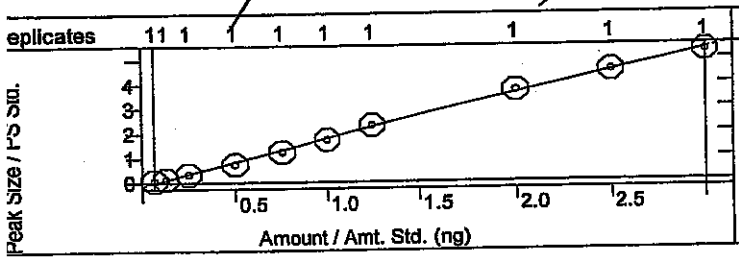
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



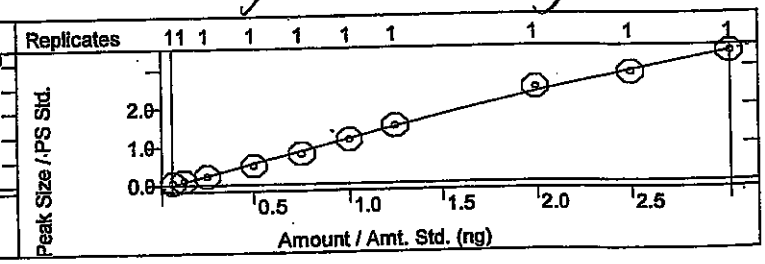
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



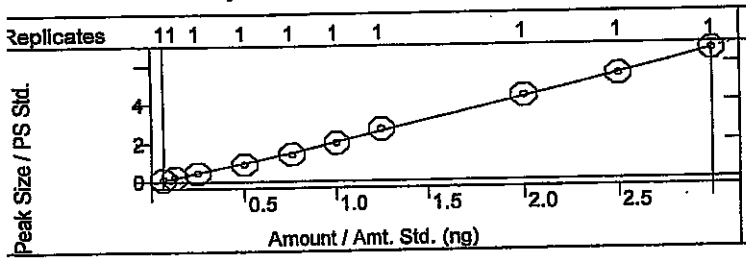
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9866x -0.1374



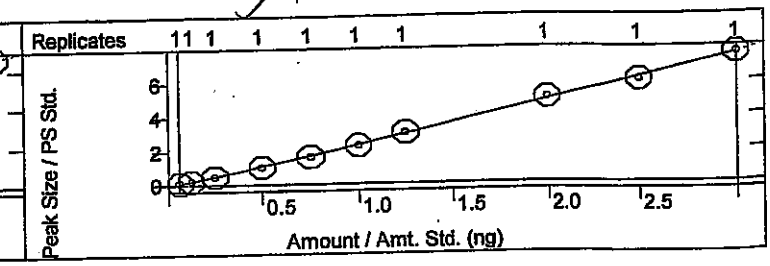
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



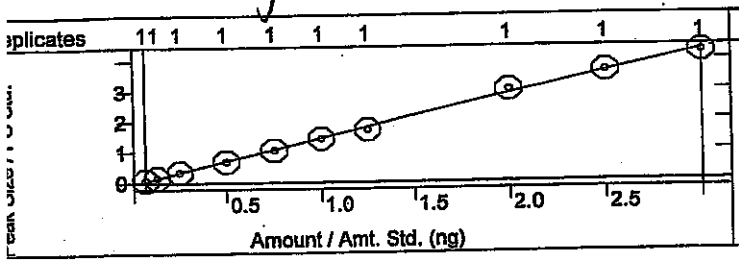
alibration Curves Report

/ dah 4/28/14

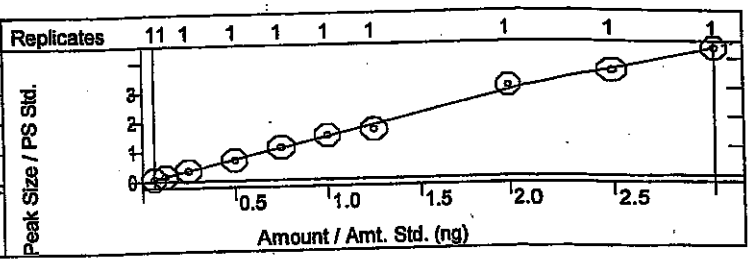
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SO 4-28-14

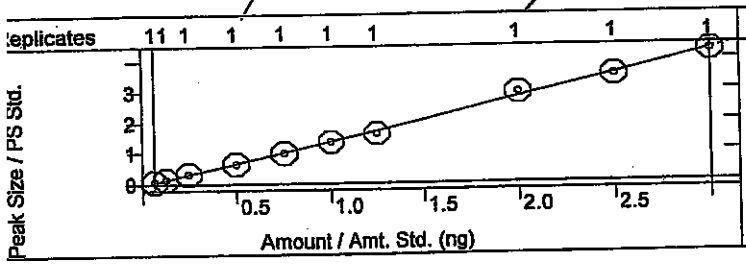
lenzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



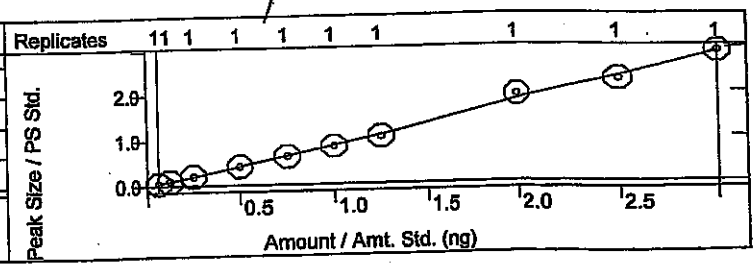
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



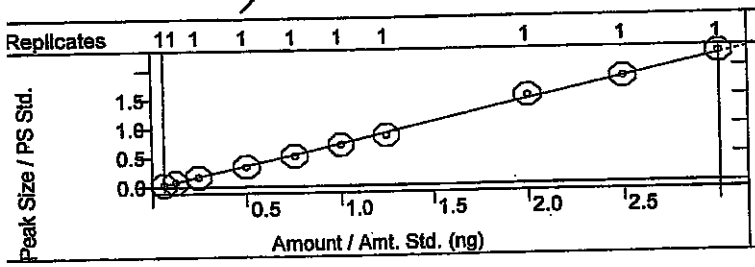
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



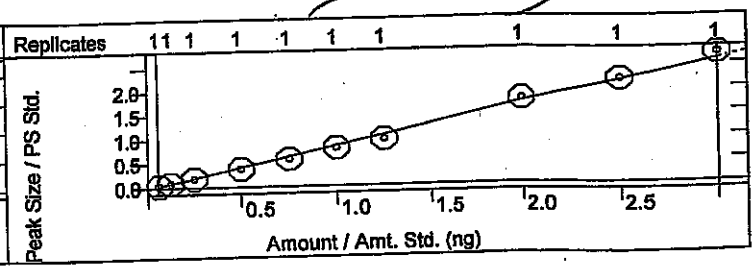
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dm 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS

RRF9	RRF10
0.291	0.280
0.290	0.285
0.582	0.579
0.305	0.296
0.365	0.355
2.443	2.488
0.362	0.361
0.350	0.345
0.320	0.322
0.833	0.810
0.399	0.418
0.646	0.633
0.407	0.415

dan 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS

RRF9	RRF10
2.397	2.657
0.190	0.200
0.970	0.871
0.372	0.365
2.285	2.265
0.796	0.815
2.678	2.673
1.939	1.999
1.408	1.514
0.674	0.682
0.949	0.858
1.664	1.647
0.516	0.494

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC	RRF9	RRF10
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS	0.554	0.544
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS	1.518	1.593
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS	0.972	0.953
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS	0.975	1.000
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS	0.979	0.962
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS	1.906	1.853
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS	0.975	0.976
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS	0.612	0.627
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS	0.959	0.971
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS	1.228	1.265
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS	0.951	0.938
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS	2.262	2.483
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS	1.811	1.768

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50ppm crv.SMS JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dam 4/28/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

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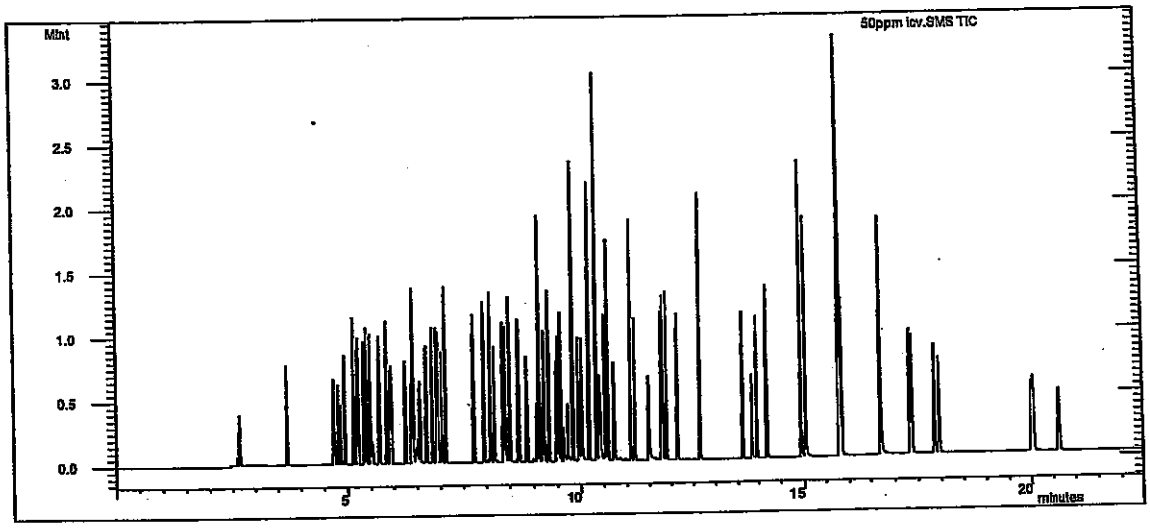
Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.536
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

Varian Star Workstation - 8400 SampleList Tue Jul 29 08:29:23 2014

SampleList: C:\VarianWS\072814.smp

Created: Mon Jul 28 10:20:07 2014
Modified: Mon Jul 28 19:06:55 2014

****

JC 7-29-14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	80ppm	1	below	1	1.0
	Notes sv110-0595				
3	10ppm LL	1	below	2	1.0
	Notes sv110-0562				
4	mb-14448	1	below	3	1.0
	Notes LL-soil				
5	lcs-14448	1	below	4	1.0
	Notes LL-soil				
6	1407B98-001A	1	below	5	1.0
	Notes x1 LL-soil				
7	H.L. 1407B98-002A	1	below	6	1.0
	Notes x1 LL-soil				
8	1407B98-003A	1	below	7	1.0
	Notes x1 LL-soil				
9	1407B98-003Ams	1	below	8	1.0
	Notes x1 LL-soil				
10	1407B98-003Amsd	1	below	9	1.0
	Notes x1 LL-soil				
11					
12	mb-14447	1	below	10	1.0
	Notes soil				
13	lcs-14447	1	below	11	1.0
	Notes soil				
14	1407B35-001A	1	below	12	1.0
	Notes x1 soil				
15	1407C55-001A	1	below	13	1.0
	Notes x1 soil, fv=2ml				
16	1407C55-001Ams	1	below	14	1.0
	Notes x1 soil, fv=2ml				
17	1407C55-001Amsd	1	below	15	1.0
	Notes x1 soil, fv=2ml				
18	1407C55-002A	1	below	16	1.0
	Notes x1 soil, fv=2ml				
19	1407C55-003A	1	below	17	1.0
	Notes x1 soil, fv=2ml				
20	1407C55-004A	1	below	18	1.0
	Notes x1 soil				
21	1407C55-005A	1	below	19	1.0
	Notes x1 soil				
22	1407C55-006A	1	below	20	1.0
	Notes x1 soil				

I lam 7/29/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\072814.rcl.

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Time Started: 3:00

Time Ended: 8:00

Reviewed By: dam 7/28/14

Prep Start Date: 07/27/14 2:56:19 P

Prep End Date:

Extraction Method 3540

Prep Factor Units: mL / g

Prep Batch ID: 14447 Prep Code: 8270SOX_PR Method No: 3540 Technician: John Caldwell

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14447	SC727	Soil			30	0	0	1	0.033	07/27/14	7.28.14
LCS-14447		Soil			30	0	7.28.14	1	0.033	07/27/14	
1407B35-001A	Mixing Bin 10-pt Comp	Soil			30.18	0	0	1 mL	0.033	07/27/14	
1407C55-001A	FFOR-CF-0032	Soil			30.54	0	0	2mL	0.033	07/27/14	
1407C55-001AMS		Soil			30.09	0	0	2mL	0.033	07/27/14	
1407C55-001AMSD		Soil			30.01	0	0	2mL	0.033	07/27/14	
1407C55-002A	FFOR-CF-0033	Soil			30.37	0	0	2mL	0.033	07/27/14	
1407C55-003A	FF04-CF-0034	Soil			30.91	0	0	2mL	0.033	07/27/14	
1407C55-004A	FFOR-CF-0035	Soil			30.40	0	0	1	0.033	07/27/14	
1407C55-005A	FFOR-CF-0036	Soil			30.40	0	0	1	0.033	07/27/14	
1407C55-006A	FFFOR-CF-0037	Soil			30.95	0	0	1	0.033	07/27/14	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC727	µL
ST8270-14027	8270 Internal Standard	ALL	25744	Container-01 of 01	20 JU7.28.14	µL
ST8270-14028	8270 BNA Surrogate	ALL	25745	Container-01 of 01	500 SC727	µL

8270C

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

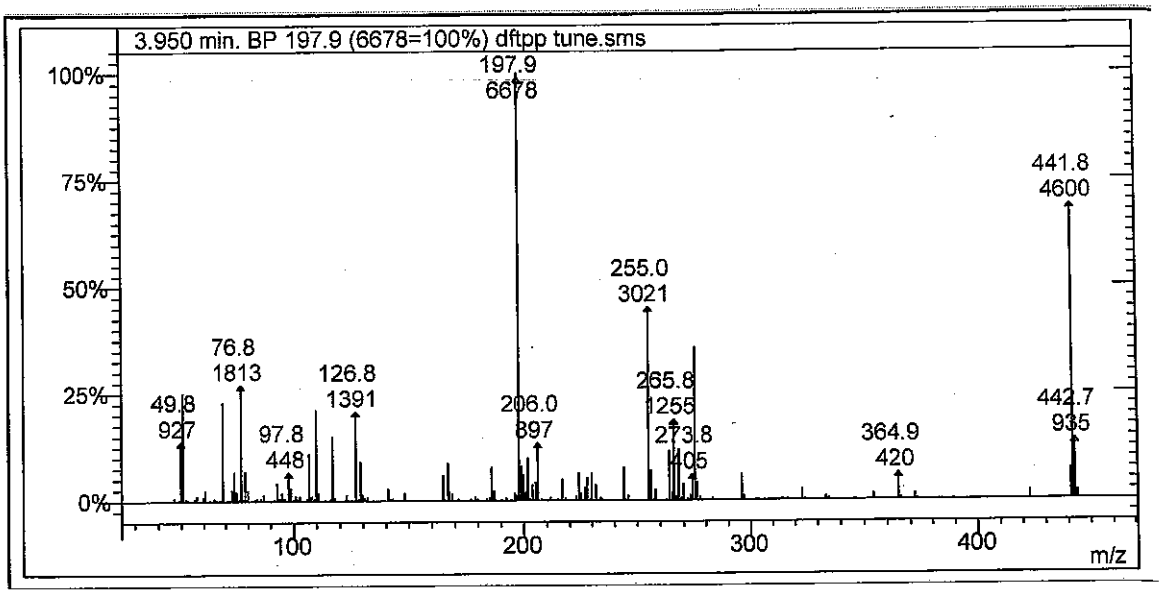
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/28/2014

Injection Time: 10:25

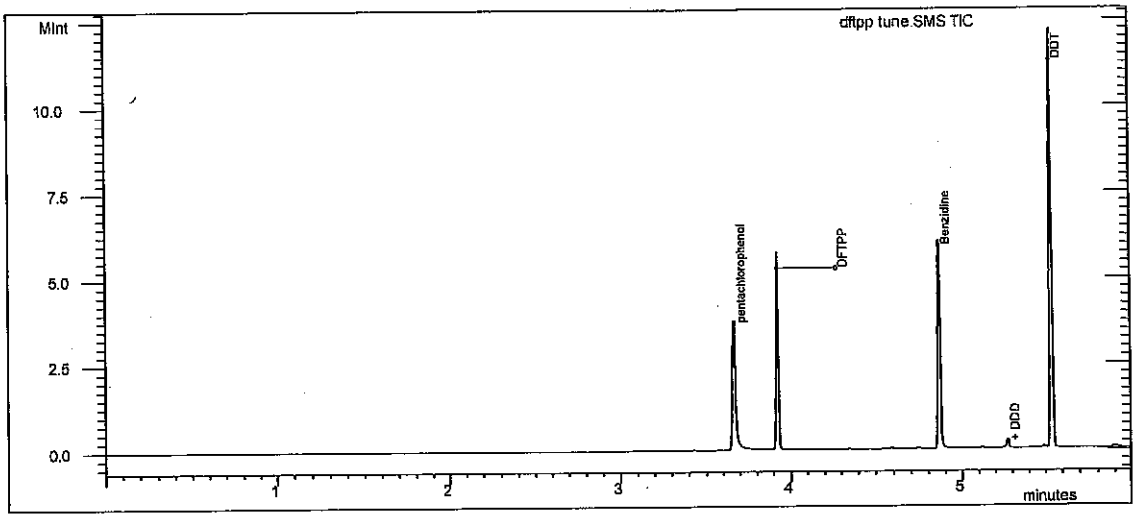
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	25.19	PASS
68	<2% of m/z 69	0.98	PASS
69	Present	22.94	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	20.83	PASS
197	<2% of m/z 198	1.21	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.06	PASS
275	10-60% of base peak	35.71	PASS
365	>1% of base peak	6.29	PASS
441	Present and <m/z 443	50.27	PASS
442	>50% of m/z 198	68.88	PASS
443	15-24% of m/z 442	20.33	PASS

JC 7.28.14

Sdm 7/29/14

Degradation Report

Acquisition Date:	7/28/2014 10:25:39 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.540	3.020E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.272	55446	5
DDE	4.989	1776	6

% Degradation of DDT: = 1.859

JC 7.28.14

Adam 7/29/14

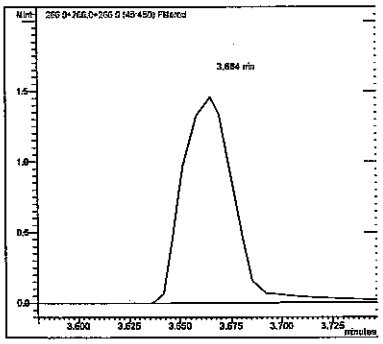
Tailing and Gaussian Factor Report

Acquisition Date: 7/28/2014 10:25:39 AM Data File Name: C:\VarianWS\data\dftpp.tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0601

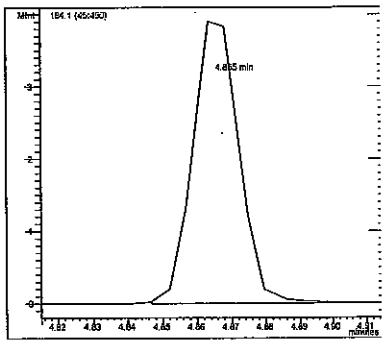
pentachlorophenol

RT = 3.664 Area = 2.614E6



Benzidine

RT = 4.865 Area = 3.666E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.664	1.135	0.885
Benzidine	4.865	1.463	1.030

#	Compound Name	RT	Area
1	pentachlorophenol	3.664	2.614E6
3	Benzidine	4.865	3.666E6

JV 7-29-14

Sam 7/29/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
80ppm	153542	5.18	490847	6.90	222900	9.50	431790	11.75	448442	15.77	569015	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7-28-14

dam 7/29/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\072814\80ppm.SMS Lab Sample ID: 80ppm

Instrument ID: ELMO Date Analyzed: 7/28/2014 Time Analyzed: 10:38

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	153542	5.18	490847	6.90	222900	9.50	431790	11.75	448442	15.77	569015	17.92
UPPER LIMIT	307084	5.68	981694	7.40	445800	10.00	863580	12.25	896884	16.27	1.138E6	18.42
LOWER LIMIT	76771	4.68	245424	6.40	111450	9.00	215895	11.25	224221	15.27	284508	17.42
EPA SAMPLE NO												
mb-14447	109040	5.18	369160	6.91	164472	9.51	279355	11.75	326875	15.77	400247	17.93
lcs-14447	107040	5.18	349678	6.90	157281	9.50	283034	11.75	318245	15.77	372906	17.92
1407B35-00	102174	5.18	343592	6.91	147007	9.50	250634	11.75	288199	15.77	351703	17.93
1407C55-00	110529	5.18	365504	6.91	155952	9.51	288221	11.75	328829	15.77	404772	17.93
1407C55-00	109679	5.18	342706	6.90	153332	9.50	285781	11.75	320670	15.77	393693	17.92
1407C55-00	111299	5.18	355385	6.91	155337	9.50	287914	11.75	327456	15.77	420150	17.93
1407C55-00	88172	5.19	302654	6.91	136075	9.51	254652	11.75	287832	15.77	339112	17.93
1407C55-00	90019	5.18	316367	6.91	146055	9.50	263790	11.75	302862	15.77	373398	17.92
1407C55-00	91305	5.18	305934	6.90	142131	9.50	251369	11.75	275740	15.77	347404	17.92
1407C55-00	96010	5.18	318472	6.90	146939	9.50	253514	11.75	283538	15.77	347167	17.92
1407C55-00	83118	5.18	291477	6.90	137382	9.50	261664	11.75	304488	15.76	375867	17.92

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/28/2014 Time: 10:38

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\80ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	2.830	0.050	80.00	81.62	-2.0	40.0	PASS	PASS
Pyridine	9.319	0.050	80.00	83.93	-4.9	40.0	PASS	PASS
2-Fluorophenol	1.063	0.050	80.00	74.20	7.3	40.0	PASS	PASS
Phenol-d5	1.123	0.050	80.00	81.92	-2.4	40.0	PASS	PASS
Phenol	1.148	0.050	80.00	76.19	4.8	20.0	PASS	PASS
Aniline	3.254	0.050	80.00	63.82	20.2	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.810	0.050	80.00	74.57	6.8	40.0	PASS	PASS
2-Chlorophenol	1.122	0.050	80.00	75.00	6.3	40.0	PASS	PASS
1,3-Dichlorobenzene	1.397	0.050	80.00	75.85	5.2	40.0	PASS	PASS
1,4-Dichlorobenzene	1.405	0.050	80.00	79.20	1.0	20.0	PASS	PASS
Benzyl alcohol	1.147	0.050	80.00	86.00	-7.5	40.0	PASS	PASS
1,2-Dichlorobenzene	1.401	0.050	80.00	80.69	-0.9	40.0	PASS	PASS
2-Methylphenol	0.959	0.050	80.00	78.71	1.6	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.222	0.050	80.00	69.79	12.8	40.0	PASS	PASS
3+4-Methylphenol	1.075	0.050	80.00	74.76	6.6	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.470	0.050	80.00	78.69	1.6	40.0	PASS	PASS
Hexachloroethane	4.475	0.050	80.00	77.37	3.3	40.0	PASS	PASS
Nitrobenzene-d5	0.298	0.050	80.00	80.49	-0.6	40.0	PASS	PASS
Nitrobenzene	0.299	0.050	80.00	78.73	1.6	40.0	PASS	PASS
Isophorone	0.623	0.050	80.00	85.30	-6.6	40.0	PASS	PASS
2-Nitrophenol	0.319	0.050	80.00	83.55	-4.4	20.0	PASS	PASS
2,4-Dimethylphenol	0.359	0.050	80.00	79.36	0.8	40.0	PASS	PASS
Benzoic acid	2.737	0.050	80.00	91.64	-14.6	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.392	0.050	80.00	86.53	-8.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.353	0.050	80.00	80.37	-0.5	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.313	0.050	80.00	77.03	3.7	40.0	PASS	PASS
Naphthalene	0.844	0.050	80.00	81.47	-1.8	40.0	PASS	PASS
4-Chloroaniline	0.396	0.050	80.00	79.38	0.8	40.0	PASS	PASS
Hexachlorobutadiene	0.600	0.050	80.00	72.39	9.5	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.408	0.050	80.00	77.98	2.5	20.0	PASS	PASS
2-Methylnaphthalene	0.213	0.050	80.00	67.75	15.3	40.0	PASS	PASS
1-Methylnaphthalene	0.226	0.050	80.00	70.71	11.6	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.437	0.050	80.00	70.18	12.3	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.338	0.050	80.00	74.80	6.5	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.305	0.050	80.00	73.50	8.1	40.0	PASS	PASS
2-Fluorobiphenyl	1.488	0.050	80.00	76.95	3.8	40.0	PASS	PASS

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dam 7/29/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.546	0.050	80.00	78.84	1.5	40.0	PASS	PASS
2-Nitroaniline	1.139	0.050	80.00	81.74	-2.2	40.0	PASS	PASS
Dimethyl phthalate	2.988	0.050	80.00	83.21	-4.0	40.0	PASS	PASS
2,6-Dinitrotoluene	0.724	0.050	80.00	83.80	-4.7	40.0	PASS	PASS
Acenaphthylene	1.901	0.050	80.00	78.32	2.1	40.0	PASS	PASS
3-Nitroaniline	1.113	0.050	80.00	81.58	-2.0	40.0	PASS	PASS
Acenaphthene	1.211	0.050	80.00	76.71	4.1	20.0	PASS	PASS
2,4-Dinitrophenol	2.969	0.050	80.00	97.75	-22.2	40.0	PASS	PASS
4-Nitrophenol	0.212	0.050	80.00	87.03	-8.8	40.0	PASS	PASS
Dibenzofuran	0.820	0.050	80.00	71.20	11.0	40.0	PASS	PASS
2,4-Dinitrotoluene	0.336	0.050	80.00	73.11	8.6	40.0	PASS	PASS
Diethyl phthalate	2.464	0.050	80.00	82.81	-3.5	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.680	0.050	80.00	66.10	17.4	40.0	PASS	PASS
Fluorene	2.559	0.050	80.00	77.75	2.8	40.0	PASS	PASS
4-Nitroaniline	2.000	0.050	80.00	82.37	-3.0	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.646	0.050	80.00	94.68	-18.4	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.698	0.050	80.00	82.55	-3.2	20.0	PASS	PASS
Azobenzene	0.943	0.050	80.00	80.71	-0.9	40.0	PASS	PASS
2,4,6-Tribromophenol	1.689	0.050	80.00	81.23	-1.5	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.514	0.050	80.00	80.76	-1.0	40.0	PASS	PASS
Hexachlorobenzene	0.533	0.050	80.00	77.49	3.1	40.0	PASS	PASS
Pentachlorophenol	1.581	0.050	80.00	84.29	-5.4	20.0	PASS	PASS
Phenanthrene	1.045	0.050	80.00	87.01	-8.8	40.0	PASS	PASS
Anthracene	1.063	0.050	80.00	87.08	-8.9	40.0	PASS	PASS
Carbazole	0.964	0.050	80.00	81.08	-1.3	40.0	PASS	PASS
Di-n-butyl phthalate	2.070	0.050	80.00	85.53	-6.9	40.0	PASS	PASS
Fluoranthene	0.949	0.050	80.00	81.23	-1.5	20.0	PASS	PASS
Benzidine	0.561	0.050	80.00	76.52	4.4	40.0	PASS	PASS
Pyrene	0.901	0.050	80.00	80.19	-0.2	40.0	PASS	PASS
4-Terphenyl-d14	1.090	0.050	80.00	71.27	10.9	40.0	PASS	PASS
Butyl benzyl phthalate	0.978	0.050	80.00	82.21	-2.8	40.0	PASS	PASS
3,3'-Dichlorobenzidine	2.199	0.050	80.00	81.04	-1.3	40.0	PASS	PASS
Benz[a]anthracene	1.770	0.050	80.00	77.98	2.5	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.907	0.050	80.00	61.20	23.5	40.0	PASS	PASS
Chrysene	2.242	0.050	80.00	83.28	-4.1	40.0	PASS	PASS
Di-n-octyl phthalate	2.673	0.050	80.00	86.73	-8.4	20.0	PASS	PASS
Benzo(b)fluoranthene	1.678	0.050	80.00	93.03	-16.3	40.0	PASS	PASS
Benzo[k]fluoranthene	1.705	0.050	80.00	93.60	-17.0	40.0	PASS	PASS
Benzo[a]pyrene	1.602	0.050	80.00	91.02	-13.8	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.914	0.050	80.00	80.09	-0.1	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.929	0.050	80.00	101.52	-26.9	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.878	0.050	80.00	82.01	-2.5	40.0	PASS	PASS

7-28-14

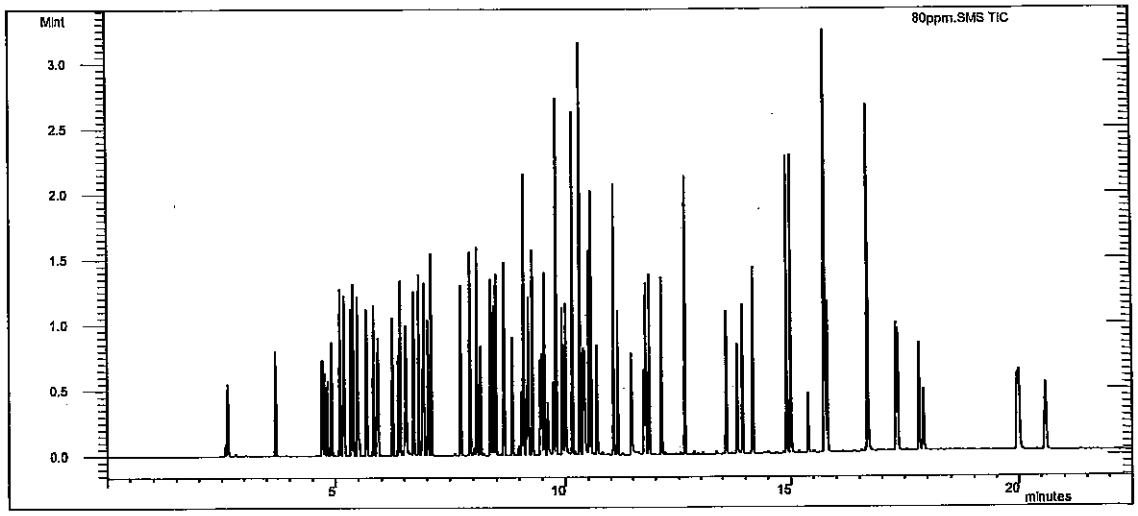
dam 7/29/14

8270C Report

Sample Name: 80ppm **Operator Name:** John D Caldwell **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 042514.mth **Inj. Notes:** sv110-0595 **Acquisition Date:** 7/28/2014 10:38:40 AM

Calculation Date: 7/28/2014 11:01:09 AM



7.28.14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.178	437	Identified	153542	40.000
Naphthalene-d8 (I.S)	6.902	617	Identified	490847	40.000
Acenaphthene-d10 (I.S)	9.501	884	Identified	222900	40.000
Phenanthrene-d10	11.750	1116	Identified	431790	40.000
Chrysene-d12 I.S	15.770	1527	Identified	448442	40.000
Perylene-d12 I.S	17.924	1753	Identified	569015	40.000
N-nitrosodimethylamine	2.589	163	Identified	869022	81.625
Pyridine	2.634	168	Identified	2.862E6	83.925
2-Fluorophenol	3.704	281	Identified	326551	74.197
Phenol-d5	4.711	388	Identified	344877	81.916
Phenol	4.727	390	Identified	352585	76.185
Aniline	4.778	395	Identified	999194	63.819
Bis(2-chloroethyl)ether	4.832	401	Identified	555729	74.572
2-Chlorophenol	4.922	410	Identified	344569	74.999
1,3-Dichlorobenzene	5.109	430	Identified	428926	75.848
1,4-Dichlorobenzene	5.199	439	Identified	431605	79.204
Benzyl alcohol	5.346	455	Identified	352098	85.996
1,2-Dichlorobenzene	5.396	460	Identified	430313	80.694
2-Methylphenol	5.485	469	Identified	294371	78.713
Bis(2-chloroisopropyl)ether	5.502	471	Identified	375115	69.789
3+4-Methylphenol	5.691	491	Identified	330079	74.757
N-Nitrosodi-n-propylamine	5.680	490	Identified	1.066E6	78.689
Hexachloroethane	5.835	506	Identified	1.374E6	77.366
Nitrobenzene-d5	5.908	513	Identified	292925	80.490

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.934	516	Identified	293594	78.729
Isophorone	6.239	548	Identified	611894	85.295
2-Nitrophenol	6.368	562	Identified	313280	83.550
2,4-Dimethylphenol	6.417	567	Identified	352531	79.356
Benzoic acid	6.536	579	Identified	2.687E6	91.642
Bis(2-chloroethoxy)methane	6.542	579	Identified	384723	86.530
2,4-Dichlorophenol	6.704	596	Identified	346872	80.370
1,2,4-Trichlorobenzene	6.820	608	Identified	307065	77.025
Naphthalene	6.933	620	Identified	828527	81.473
4-Chloroaniline	7.022	629	Identified	388808	79.380
Hexachlorobutadiene	7.092	636	Identified	589184	72.386
4-Chloro-3-methylphenol	7.736	703	Identified	400952	77.976
2-Methylnaphthalene	7.937	723	Failed	208996	67.752
1-Methylnaphthalene	8.086	739	Failed	222096	70.712
Hexachlorocyclopentadiene	8.162	747	Identified	429315	70.180
2,4,6-Trichlorophenol	8.368	768	Identified	150523	74.796
2,4,5-Trichlorophenol	8.426	774	Identified	135815	73.501
2-Fluorobiphenyl	8.484	780	Identified	663464	76.954
2-Chloronaphthalene	8.665	798	Identified	689424	78.839
2-Nitroaniline	8.846	817	Identified	507922	81.735
Dimethyl phthalate	9.101	843	Identified	1.332E6	83.208
2,6-Dinitrotoluene	9.206	854	Identified	322589	83.798
Acenaphthylene	9.290	862	Identified	847305	78.325
3-Nitroaniline	9.467	880	Identified	496011	81.577
Acenaphthene	9.550	889	Identified	540068	76.707
2,4-Dinitrophenol	9.617	896	Identified	1.324E6	97.747
4-Nitrophenol	9.751	910	Failed	94647	87.027
Dibenzofuran	9.810	916	Identified	365650	71.200
2,4-Dinitrotoluene	9.811	916	Identified	149804	73.109
Diethyl phthalate	10.159	952	Identified	1.099E6	82.813
4-Chlorophenyl phenyl ether	10.325	969	Identified	303160	66.096
Fluorene	10.326	969	Identified	1.141E6	77.753
4-Nitroaniline	10.395	976	Identified	891638	82.366
4,6-Dinitro-2-methylphenol	10.425	979	Identified	1.421E6	94.681
N-Nitrosodiphenylamine	10.517	989	Identified	602757	82.549
Azobenzene	10.567	994	Identified	814769	80.707
2,4,6-Tribromophenol	10.701	1008	Identified	1.458E6	81.230
4-Bromophenyl phenyl ether	11.067	1045	Identified	443850	80.763
Hexachlorobenzene	11.156	1054	Identified	460621	77.493
Pentachlorophenol	11.474	1087	Identified	1.365E6	84.287
Phenanthrene	11.785	1119	Identified	902760	87.007
Anthracene	11.862	1127	Identified	917555	87.082
Carbazole	12.129	1154	Identified	832449	81.077
Di-n-butyl phthalate	12.631	1206	Identified	1.788E6	85.531
Fluoranthene	13.594	1303	Identified	819442	81.227
Benzidine	13.827	1327	Identified	503402	76.517
Pyrene	13.940	1339	Identified	808227	80.189
4-Terphenyl-d14	14.175	1363	Identified	977191	71.274
Butyl benzyl phthalate	14.913	1438	Identified	876973	82.209
3,3'-Dichlorobenzidine	15.743	1524	Identified	1.972E6	81.042

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.756	1526	Identified	1.588E6	77.981
Bis(2-ethylhexyl)phthalate	15.755	1525	Identified	813489	61.201
Chrysene	15.811	1531	Identified	2.010E6	83.285
Di-n-octyl phthalate	16.689	1623	Identified	2.397E6	86.727
Benzo(b)fluoranthene	17.313	1689	Identified	1.910E6	93.034
Benzo[k]fluoranthene	17.351	1694	Identified	1.940E6	93.600
Benzo[a]pyrene	17.829	1744	Identified	1.823E6	91.020
Indeno[1,2,3-cd]pyrene	19.970	1969	Identified	1.040E6	80.087
Dibenz[a,h]anthracene	20.009	1973	Failed	1.057E6	101.516
Benzo[g,h,i]perylene	20.601	2036	Identified	999579	82.011

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Revision Log
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7/28/2014 11:01 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

7/30/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407C55**
Date Reported:

LH

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-001 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0032 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	5.8	0.28		mg/Kg-dry	1	7/29/2014 11:53:12 AM	14462

Lab ID: 1407C55-002 **Collection Date:** 7/25/2014 9:06:00 AM
Client Sample ID: FFOR-CF-0033 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.9	0.29		mg/Kg-dry	1	7/29/2014 11:55:41 AM	14462

Lab ID: 1407C55-003 **Collection Date:** 7/25/2014 9:20:00 AM
Client Sample ID: FFOR-CF-0034 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.3	0.30		mg/Kg-dry	1	7/29/2014 11:58:08 AM	14462

Lab ID: 1407C55-004 **Collection Date:** 7/25/2014 9:28:00 AM
Client Sample ID: FFOR-CF-0035 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	4.1	0.60		mg/Kg-dry	2	7/29/2014 12:01:49 PM	14462

Lab ID: 1407C55-005 **Collection Date:** 7/25/2014 9:37:00 AM
Client Sample ID: FFOR-CF-0036 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.7	0.29		mg/Kg-dry	1	7/29/2014 12:03:03 PM	14462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

PRELIMINARY

Analytical Report
Lab Order: **1407C55**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407C55

Lab ID: 1407C55-006
Client Sample ID: FFOR-CF-0037
Collection Date: 7/25/2014 3:30:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.5	0.30		mg/Kg-dry	1	7/29/2014 12:09:15 PM	14462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 7/28/14

QA'd/Date: JF 7/28/14

Prep Start Date: **7/28/2014 1:03:13 P**
Prep End Date:

Prep Batch ID **14462** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14462		Soil			1.9756	0	0	50	50.000	7/28/2014	
LCS-14462		Soil			1.9896	0	0	50	50.000	7/28/2014	
1407C55-001A	FFOR-CF-0032	Soil			1.0204	0	0	50	50.000	7/28/2014	
1407C55-002A	FFOR-CF-0033	Soil			1.0199	0	0	50	50.000	7/28/2014	
1407C55-003A	FF04-CF-0034	Soil			1.9690	0	0	50	50.000	7/28/2014	
1407C55-004A	FFOR-CF-0035	Soil			1.9970	0	0	50	50.000	7/28/2014	
1407C55-005A	FFOR-CF-0036	Soil			1.0079	0	0	50	50.000	7/28/2014	
1407C55-006A	FFFOR-CF-0037	Soil			1.9952	0	0	50	50.000	7/28/2014	
1407C43-001A	Sample 1	MeOH (Soil)			1.9964	0	0	50	50.000	7/28/2014	
1407C43-002A	Sample 2	MeOH (Soil)			1.9793	0	0	50	50.000	7/28/2014	
1407C43-002AMS		MeOH (Soil)			1.0028	0	0	50	50.000	7/28/2014	
1407C43-002AMSD		MeOH (Soil)			1.9999	0	0	50	50.000	7/28/2014	
1407C30-001A	TB	Soil			1.0161	0	0	50	50.000	7/28/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 144102	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4690	Tubes 2 / 4		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4676	HNO_3 6 / 6		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4680	HCl 3 / 6		HCl /		HCl /
	Filters /		Filters /	4699	Filters 1 / 1		Filters /		Filters /
				4684	H_2O_2 1 / 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 / 1		TCLP Fluid /		

Standards:

ST6020 -	Exp:	ST6010 - 14139	Exp: 3/31/15		Exp:
ST6020 -	Exp:	ST6010 - 14318	Exp: 7/31/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawan	Digestion Block:
Position: D4	Position:
Therm ID: DBT-22	Therm ID:
Calibration Exp: 8/9/15	Calibration Exp:
Temp: 91.4 °C CF: -0 °C = Corr. Temp: 91.4 °C	Temp: °C CF: °C = Corr. Temp: °C
Analyst: MD Date/Time: 7/28/14 15:30	Analyst: Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: Wt. DI (g): Rm Temp (°C): Analyst:
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5003 Rm Temp (°C): 21.9 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

Pipette No.: Wt. DI (g): Rm Temp (°C): Analyst:

Pipette No.: Wt. DI (g): Rm Temp (°C): Analyst:

Analyst/Date: MD 7/28/14 QA'd/Date: JF 7/30/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20212

ICP-OES Analysis Summary

Data Imported By: [illegible] 7/29/14

Instrument: 16

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 072914 R144462 Prep Batch ID: 144462

Calibration

	Standard ID
ST1	ST6010- 14306
ST2	ST6010- 14307
ST3 (CCV)	ST6010- 14293
ST4	ST6010- 14308

	Standard ID
ST5	ST6010- 14309
ST6	ST6010- 14319
ST7 (CCV CAT)	ST6010- 14320
ST8	ST6010- 14321

	Standard ID
ICV	ST6010- 14331
ICV CAT	ST6010- 14326
ICS ELEM	ST6010- 14294
ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14329

2% Nitric Acid

Reagent ID: 1354/1393

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14441	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 100µl Wt DI (g): 0.1015 Rm Temp (°C): 22.0 Analyst: [illegible]

Pipette No: P30 Spike Volume: 500µl Wt DI (g): 0.5061 Rm Temp (°C): 22.0 Analyst: [illegible]

Pipette No: P35 Spike Volume: 1ml Wt DI (g): 1.0154 Rm Temp (°C): 22.0 Analyst: [illegible]

Pipette No: P03 Spike Volume: 250µl Wt DI (g): 0.2531 Rm Temp (°C): 22.0 Analyst: [illegible]

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
FE	1407B35-001B	0.34573	1.0076	50mL	100x10	17156.1135	mg/Kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result: _____ mg/L

Analyst/Date: [illegible] 7/29/14 Qa'd by/Date: [illegible] 7/30/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: [illegible] and [illegible].

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Sample Information Detail Report
Document Name: 072914 B14462

File Description
Hall Design

Parameters Common to All Samples

Batch ID	072914 B14462
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14462	MBLK
2	302	LCS-14462	LCS
3	303	MB-14427	MBLK
4	304	LCS-14427	LCS
5	305	LCSD-14427	LCSD
6	306	MDL-4 50uL	SAMP
7	307	MDL-5 50uL	SAMP
8	308	MDL-6 50uL	SAMP
9	309	MDL-11 200uL	SAMP
10	310	MDL-12 200uL	SAMP
11	311	MDL-13 200uL	SAMP
12	312	MDL-18 500uL	SAMP
13	313	MDL-19 500uL	SAMP
14	314	MDL-20 500uL	SAMP
15	315	MDL-25 1mL	SAMP
16	316	MDL-26 1mL	SAMP
17	317	MDL-27 1mL	SAMP
18	318	1407B35-001B	SAMP
19	319	1407B35-001B 2X	SAMP
20	320	1407C55-001A	SAMP
21	321	1407C55-001A 2X	SAMP
22	322	1407C55-002A	SAMP
23	323	1407C55-002A 2X	SAMP
24	324	1407C55-003A	SAMP
25	325	1407C55-003A 2X	SAMP
26	326	1407C55-004A	SAMP
27	327	1407C55-004A 2X	SAMP
28	328	1407C55-005A	SAMP
29	329	1407C55-005A 2X	SAMP
30	330	1407C55-006A	SAMP
31	331	1407C55-006A 2X	SAMP
32	332	1407C30-001A	SAMP
33	333	1407C30-001A 2X	SAMP
34	334	1407C43-001A	SAMP
35	335	1407C43-001A 2X	SAMP
36	336	1407C43-002A	SAMP
37	337	1407C43-002AMS	MS
38	338	1407C43-002AMSD	MSD
39	339	1407C43-002A 2X	SAMP
40	340	1407C43-002AMS 2X	MS
41	341	1407C43-002AMSD 2X	MSD

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL	Recovery 1 of 3	
5	METALS_SOIL	Recovery 1 of 3	
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		

36
37
38
39
40
41

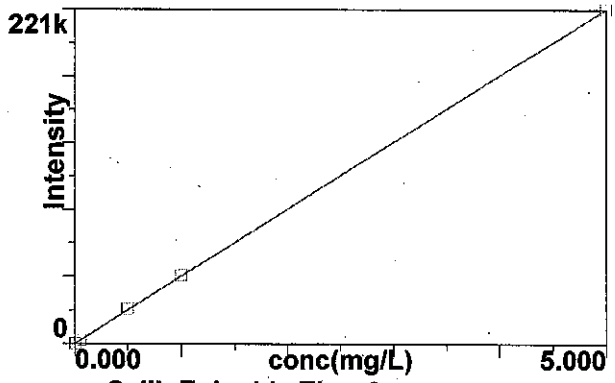
Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	331		1407C55-006A 2X	Analyzed
57	332		1407C30-001A	Samp Limit Failed
58	333		1407C30-001A 2X	Samp Limit Failed
59	334		1407C43-001A	Analyzed
60	335		1407C43-001A 2X	Analyzed
61	336		1407C43-002A	IS Check Failed
62	337		1407C43-002AMS	IS Check Failed
63	338		1407C43-002AMSD	IS Check Failed
64	339		1407C43-002A 2X	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	
68	340		1407C43-002AMS 2X	Analyzed
69	341		1407C43-002AMSD 2X	Analyzed
70	3	QC	CCV CAT	
71	202		1407c43-002aps 2x	Analyzed
72	2	QC	CCV	QC Passed
73	1	QC	CCB	QC Passed
74	3	QC	CCV CAT	
75	7	QC	DI RINSE	QC Passed

Method: ISIS 010814 6010SOIL
Result: 072914 B14462

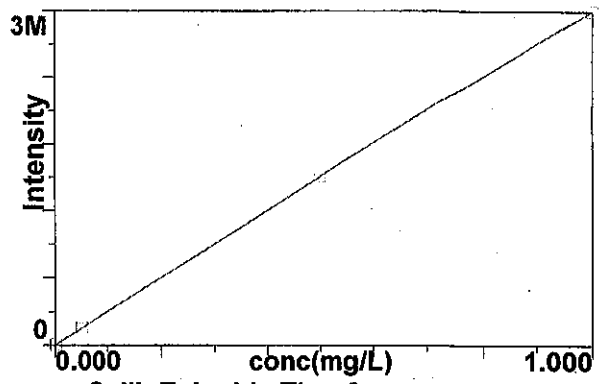
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

7

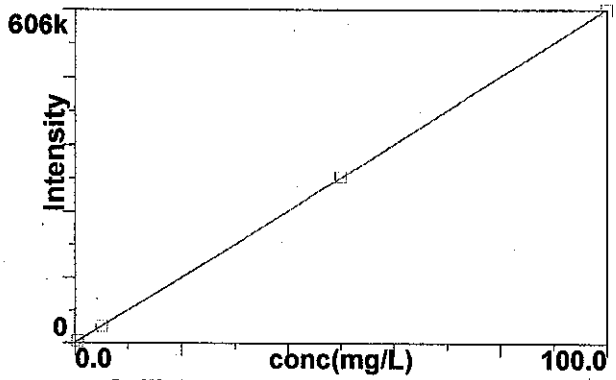
Be 313.107



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

8

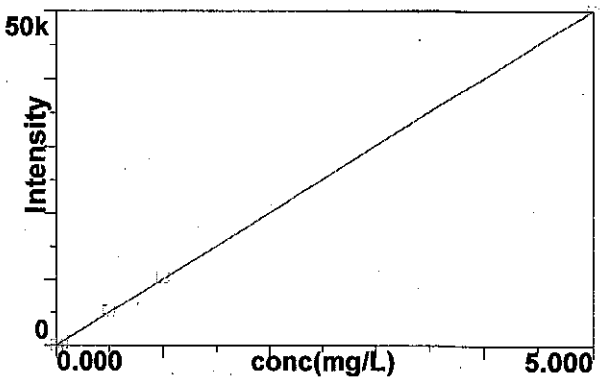
Ca 317.933



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

9

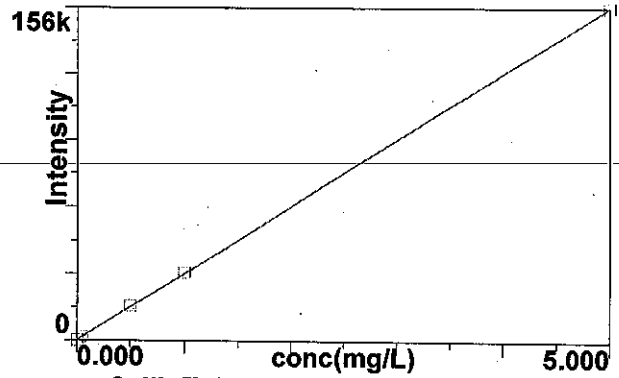
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999973

10

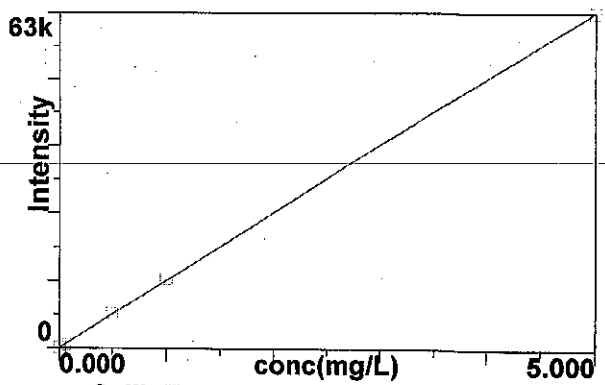
Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999988

11

Co 228.616

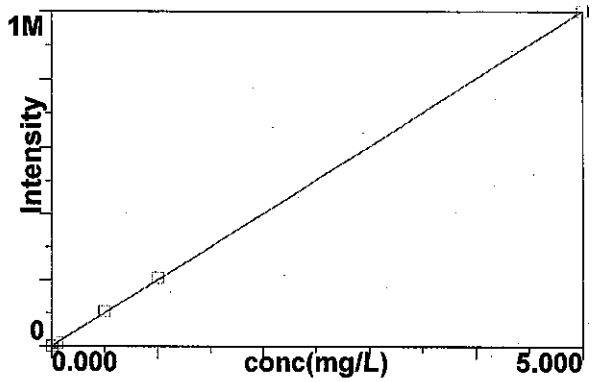


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

12

Method: ISIS 010814 6010SOIL
Result: 072914 B14462

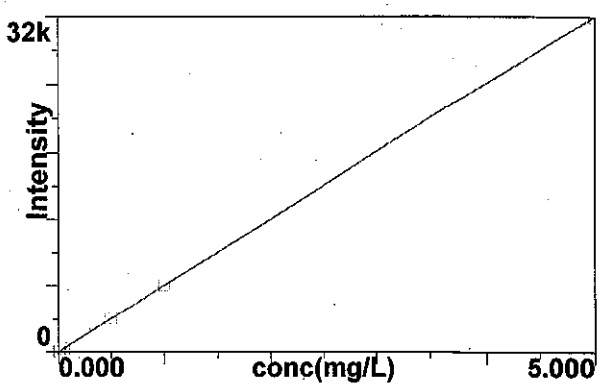
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999970

19

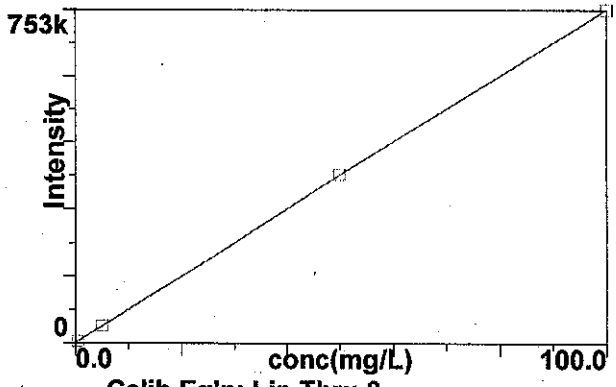
Mo 202.031



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

20

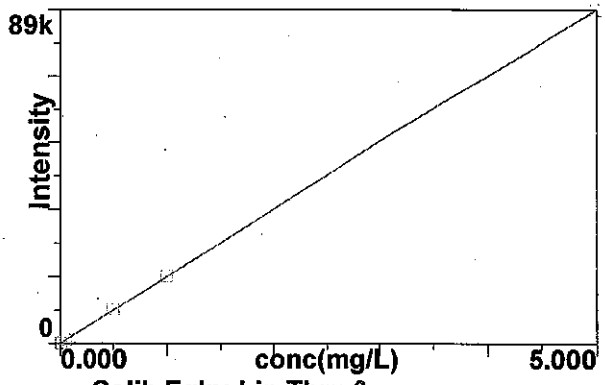
Na 589.592



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

21

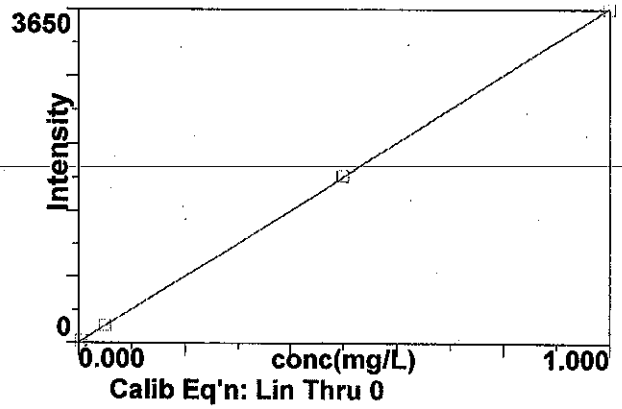
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

22

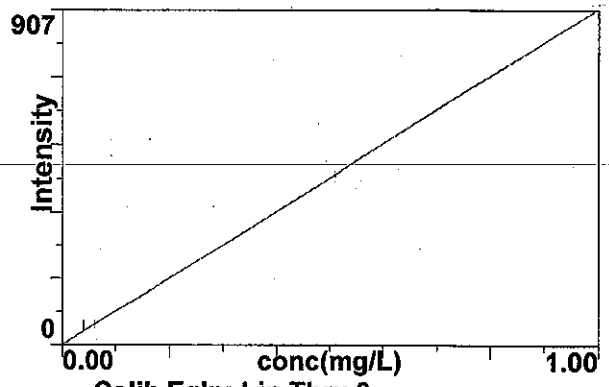
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

23

Pb 217.000

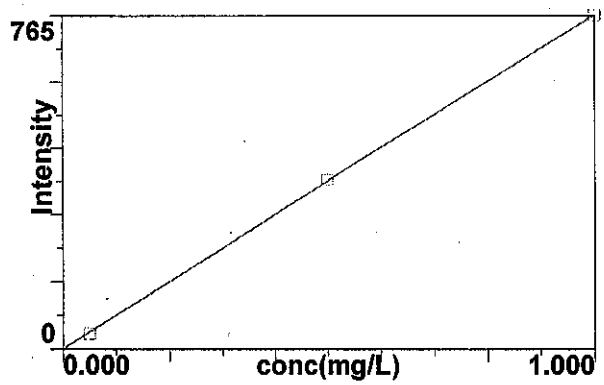


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999982

24

Method: ISIS 010814 6010SOIL
Result: 072914 B14462

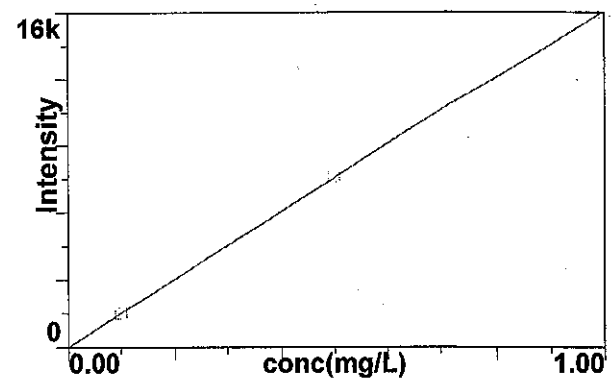
Tl 190.801



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

31

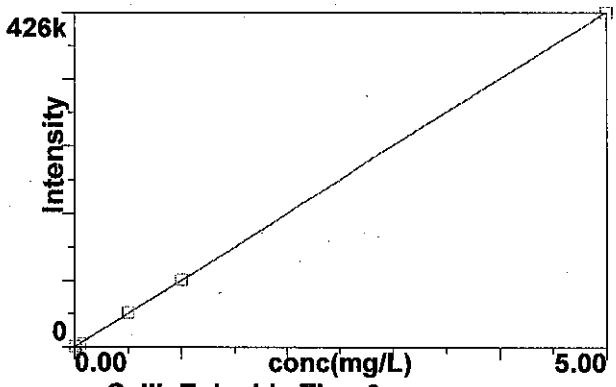
U 385.958



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999979

32

V 292.402



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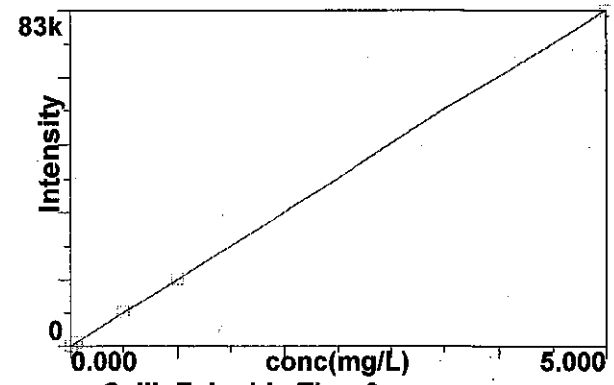
Corr Coeff: 0.999993

33

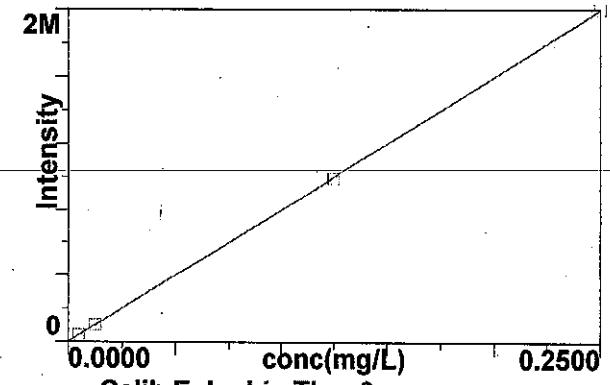
Zn 206.200



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

36

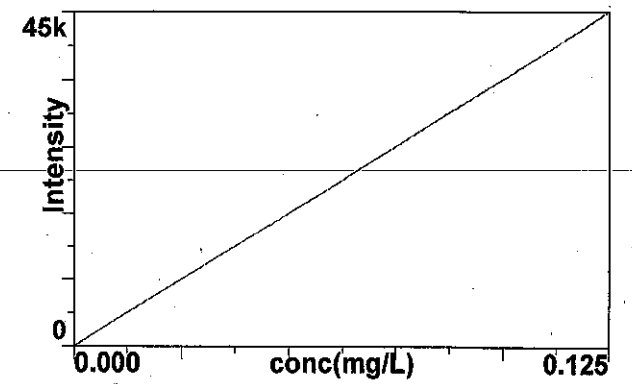
Sr 421.552



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

37

Sr 421.552 R



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

38

Analysis Begun

Start Time: 7/29/2014 10:38:23 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/29/2014 7:42:36 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072914 B14462.sif
Batch ID: 072914 B14462
Results Data Set: 072914 B14462
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 010814 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 3/27/2014 11:30:19 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/29/2014 10:38:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31267.8	224.13	0.72%	100.00	%
Y 371.029	560529.3	3346.73	0.60%	100.00	%
Ag 328.068†	33.5	25.79	77.04%	[0.00]	mg/L
Al 396.153†	-6.6	31.90	486.88%	[0.00]	mg/L
As 188.979†	8.4	2.65	31.66%	[0.00]	mg/L
As 193.696†	-3.1	1.06	34.54%	[0.00]	mg/L
B 249.772†	-5229.9	216.79	4.15%	[0.00]	mg/L
B 249.677†	139.8	2.66	1.90%	[0.00]	mg/L
Ba 233.527†	10.5	3.62	34.41%	[0.00]	mg/L
Be 313.107†	2219.1	54.13	2.44%	[0.00]	mg/L
Ca 317.933†	332.4	14.66	4.41%	[0.00]	mg/L
Cd 228.802†	-13.4	3.14	23.39%	[0.00]	mg/L
Cd 226.502†	27.6	8.91	32.32%	[0.00]	mg/L
Co 228.616†	10.0	14.01	140.06%	[0.00]	mg/L
Cr 267.716†	2.7	5.27	193.98%	[0.00]	mg/L
Cr 205.560†	-31.1	13.44	43.18%	[0.00]	mg/L
Cu 324.752†	-1884.8	26.35	1.40%	[0.00]	mg/L
Fe 238.204†	39.4	4.38	11.14%	[0.00]	mg/L
K 766.490†	1724.3	28.09	1.63%	[0.00]	mg/L
Mg 285.213†	-37.4	12.60	33.66%	[0.00]	mg/L
Mn 257.610†	39.6	29.29	74.02%	[0.00]	mg/L
Mo 202.031†	8.5	3.56	41.98%	[0.00]	mg/L
Na 589.592†	706.2	28.95	4.10%	[0.00]	mg/L
Ni 231.604†	-52.2	7.28	13.96%	[0.00]	mg/L
Pb 220.353†	-18.4	6.74	36.57%	[0.00]	mg/L
Pb 217.000†	5.5	2.48	45.01%	[0.00]	mg/L
Sb 206.836†	-8.2	2.47	30.09%	[0.00]	mg/L
Se 203.985†	5.2	1.57	30.19%	[0.00]	mg/L
Se 196.026†	-14.3	3.41	23.89%	[0.00]	mg/L
Si 212.412†	121.4	9.60	7.91%	[0.00]	mg/L
Sn 189.927†	6.1	3.81	62.49%	[0.00]	mg/L
Ti 334.940†	77.8	17.40	22.37%	[0.00]	mg/L
Tl 190.801†	1.1	2.47	226.15%	[0.00]	mg/L
U 385.958†	530.4	70.40	13.27%	[0.00]	mg/L

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31207.5	211.29	0.68%	99.807	%
Y 371.029	552892.1	6442.18	1.17%	98.637	%
Ag 328.068†	4411.6	6.07	0.14%	[0.05]	mg/L
Al 396.153†	2737.9	31.40	1.15%	[0.050]	mg/L
As 188.979†	23.9	2.15	9.03%	[0.050]	mg/L
As 193.696†	29.8	3.37	11.34%	[0.050]	mg/L
Ba 233.527†	2311.5	52.29	2.26%	[0.05]	mg/L
Be 313.107†	153210.3	583.10	0.38%	[0.05]	mg/L
Cd 228.802†	517.5	5.92	1.14%	[0.05]	mg/L
Cd 226.502†	1624.0	33.03	2.03%	[0.05]	mg/L
Co 228.616†	669.1	31.35	4.69%	[0.05]	mg/L
Cr 267.716†	1262.2	22.80	1.81%	[0.05]	mg/L
Cr 205.560†	1092.3	14.05	1.29%	[0.05]	mg/L
Cu 324.752†	6151.7	37.81	0.61%	[0.050]	mg/L
Fe 238.204†	178.8	14.24	7.96%	[0.050]	mg/L
Mn 257.610†	13199.6	194.84	1.48%	[0.05]	mg/L
Mo 202.031†	321.0	5.94	1.85%	[0.050]	mg/L
Ni 231.604†	933.1	17.72	1.90%	[0.05]	mg/L
Pb 220.353†	186.6	9.39	5.03%	[0.05]	mg/L
Pb 217.000†	50.0	3.29	6.58%	[0.05]	mg/L
Sb 206.836†	39.7	5.13	12.93%	[0.050]	mg/L
Se 203.985†	20.9	12.53	59.94%	[0.050]	mg/L
Se 196.026†	32.9	4.78	14.55%	[0.050]	mg/L
Si 212.412†	790.1	9.96	1.26%	[0.25]	mg/L
Sn 189.927†	88.9	3.26	3.67%	[0.05]	mg/L
Ti 334.940†	22930.7	152.42	0.66%	[0.05]	mg/L
Tl 190.801†	34.1	1.65	4.82%	[0.050]	mg/L
V 292.402†	4372.6	66.02	1.51%	[0.05]	mg/L
Zn 206.200†	893.0	9.81	1.10%	[0.05]	mg/L
Sr 421.552†	101711.4	566.25	0.56%	[0.0125]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/29/2014 10:44:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31393.2	103.06	0.33%	100.40	%
Y 371.029	561117.7	3894.76	0.69%	100.10	%
Ag 328.068†	44377.1	280.79	0.63%	[0.50]	mg/L
Al 396.153†	25946.7	166.55	0.64%	[0.50]	mg/L
As 188.979†	249.5	2.82	1.13%	[0.50]	mg/L
As 193.696†	314.9	6.68	2.12%	[0.50]	mg/L
B 249.772†	22278.6	596.85	2.68%	[0.50]	mg/L
B 249.677†	15228.5	219.30	1.44%	[0.50]	mg/L
Ba 233.527†	22820.9	89.31	0.39%	[0.50]	mg/L
Be 313.107†	1527129.1	2694.19	0.18%	[0.50]	mg/L
Cd 228.802†	5163.7	31.10	0.60%	[0.50]	mg/L
Cd 226.502†	16186.0	68.03	0.42%	[0.50]	mg/L
Co 228.616†	6475.8	92.97	1.44%	[0.50]	mg/L
Cr 267.716†	12496.5	74.80	0.60%	[0.50]	mg/L
Cr 205.560†	10825.4	53.40	0.49%	[0.50]	mg/L
Cu 324.752†	61120.5	351.43	0.57%	[0.50]	mg/L
Fe 238.204†	1818.0	5.99	0.33%	[0.50]	mg/L
Mn 257.610†	130266.7	569.10	0.44%	[0.5]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 7/29/2014 10:47:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31690.9	108.57	0.34%	101.35	%
Y 371.029	566552.4	4958.45	0.88%	101.07	%
Al 396.153†	264005.0	2398.63	0.91%	[5.00]	mg/L
B 249.772†	215213.5	1633.20	0.76%	[5.00]	mg/L
B 249.677†	147475.3	2152.45	1.46%	[5.00]	mg/L
Ba 233.527†	220589.4	426.69	0.19%	[5.00]	mg/L
Cd 228.802†	49508.8	123.92	0.25%	[5.00]	mg/L
Cd 226.502†	156416.5	84.12	0.05%	[5.00]	mg/L
Co 228.616†	62684.2	372.47	0.59%	[5.00]	mg/L
Cr 267.716†	121044.0	234.46	0.19%	[5.00]	mg/L
Cr 205.560†	105710.7	71.15	0.07%	[5.00]	mg/L
Cu 324.752†	581542.5	578.41	0.10%	[5.00]	mg/L
Fe 238.204†	17549.9	62.52	0.36%	[5.00]	mg/L
Mn 257.610†	1237925.1	14230.70	1.15%	[5.00]	mg/L
Mo 202.031†	31719.3	17.66	0.06%	[5.00]	mg/L
Ni 231.604†	88795.9	97.46	0.11%	[5.00]	mg/L
V 292.402†	425550.9	562.19	0.13%	[5.00]	mg/L
Zn 206.200†	82531.5	154.71	0.19%	[5.00]	mg/L
U 424.167†	23894.4	126.56	0.53%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	87870	0.00000	0.999987	
Al 396.153	5	Lin Thru 0	0.0	52780	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	502.7	0.00000	0.999981	
As 193.696	4	Lin Thru 0	0.0	620.7	0.00000	0.999971	
B 249.772	4	Lin Thru 0	0.0	43070	0.00000	0.999992	
B 249.677	4	Lin Thru 0	0.0	29500	0.00000	0.999995	
Ba 233.527	5	Lin Thru 0	0.0	44160	0.00000	0.999989	
Be 313.107	4	Lin Thru 0	0.0	3047000	0.00000	0.999999	
Ca 317.933	1	Lin Thru 0	0.0	7204	0.00000	1.000000	
Cd 228.802	5	Lin Thru 0	0.0	9918	0.00000	0.999973	
Cd 226.502	5	Lin Thru 0	0.0	31320	0.00000	0.999988	
Co 228.616	5	Lin Thru 0	0.0	12550	0.00000	0.999983	
Cr 267.716	5	Lin Thru 0	0.0	24230	0.00000	0.999991	
Cr 205.560	5	Lin Thru 0	0.0	21160	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	116500	0.00000	0.999972	
Fe 238.204	5	Lin Thru 0	0.0	3516	0.00000	0.999972	
K 766.490	1	Lin Thru 0	0.0	2621	0.00000	1.000000	
Mg 285.213	1	Lin Thru 0	0.0	8932	0.00000	1.000000	
Mn 257.610	5	Lin Thru 0	0.0	248000	0.00000	0.999970	
Mo 202.031	5	Lin Thru 0	0.0	6346	0.00000	0.999998	
Na 589.592	1	Lin Thru 0	0.0	7838	0.00000	1.000000	
Ni 231.604	5	Lin Thru 0	0.0	17770	0.00000	0.999993	
Pb 220.353	4	Lin Thru 0	0.0	3659	0.00000	0.999989	
Pb 217.000	3	Lin Thru 0	0.0	908.6	0.00000	0.999982	
Sb 206.836	3	Lin Thru 0	0.0	817.3	0.00000	0.999885	
Se 203.985	3	Lin Thru 0	0.0	539.0	0.00000	0.999925	
Se 196.026	3	Lin Thru 0	0.0	576.5	0.00000	0.999959	
Si 212.412	4	Lin Thru 0	0.0	2940	0.00000	0.999957	
Sn 189.927	4	Lin Thru 0	0.0	1835	0.00000	0.999998	

Mean Data: ST8

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31512.2	403.09	1.28%	100.78	%
Y 371.029	550333.1	1724.31	0.31%	98.181	%
Ca 317.933†	605695.0	14423.85	2.38%	[100]	mg/L
K 766.490†	269257.3	1000.52	0.37%	[100]	mg/L
Mg 285.213†	826556.5	17571.13	2.13%	[100]	mg/L
Na 589.592†	752755.6	15497.01	2.06%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	87870	0.00000	0.999987	
Al 396.153	5	Lin Thru 0	0.0	52780	0.00000	0.999997	
As 188.979	4	Lin Thru 0	0.0	502.7	0.00000	0.999981	
As 193.696	4	Lin Thru 0	0.0	620.7	0.00000	0.999971	
B 249.772	4	Lin Thru 0	0.0	43070	0.00000	0.999992	
B 249.677	4	Lin Thru 0	0.0	29500	0.00000	0.999995	
Ba 233.527	5	Lin Thru 0	0.0	44160	0.00000	0.999989	
Be 313.107	4	Lin Thru 0	0.0	3047000	0.00000	0.999999	
Ca 317.933	4	Lin Thru 0	0.0	6067	0.00000	0.999994	
Cd 228.802	5	Lin Thru 0	0.0	9918	0.00000	0.999973	
Cd 226.502	5	Lin Thru 0	0.0	31320	0.00000	0.999988	
Co 228.616	5	Lin Thru 0	0.0	12550	0.00000	0.999983	
Cr 267.716	5	Lin Thru 0	0.0	24230	0.00000	0.999991	
Cr 205.560	5	Lin Thru 0	0.0	21160	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	116500	0.00000	0.999972	
Fe 238.204	5	Lin Thru 0	0.0	3516	0.00000	0.999972	
K 766.490	4	Lin Thru 0	0.0	2686	0.00000	0.999987	
Mg 285.213	4	Lin Thru 0	0.0	8291	0.00000	0.999981	
Mn 257.610	5	Lin Thru 0	0.0	248000	0.00000	0.999970	
Mo 202.031	5	Lin Thru 0	0.0	6346	0.00000	0.999998	
Na 589.592	4	Lin Thru 0	0.0	7538	0.00000	0.999996	
Ni 231.604	5	Lin Thru 0	0.0	17770	0.00000	0.999993	
Pb 220.353	4	Lin Thru 0	0.0	3659	0.00000	0.999989	
Pb 217.000	3	Lin Thru 0	0.0	908.6	0.00000	0.999982	
Sb 206.836	3	Lin Thru 0	0.0	817.3	0.00000	0.999885	
Se 203.985	3	Lin Thru 0	0.0	539.0	0.00000	0.999925	
Se 196.026	3	Lin Thru 0	0.0	576.5	0.00000	0.999959	
Si 212.412	4	Lin Thru 0	0.0	2940	0.00000	0.999957	
Sn 189.927	4	Lin Thru 0	0.0	1835	0.00000	0.999998	
Ti 334.940	4	Lin Thru 0	0.0	450400	0.00000	0.999984	
Tl 190.801	3	Lin Thru 0	0.0	765.7	0.00000	0.999983	
U 385.958	3	Lin Thru 0	0.0	15630	0.00000	0.999979	
V 292.402	5	Lin Thru 0	0.0	85180	0.00000	0.999993	
Zn 206.200	5	Lin Thru 0	0.0	16520	0.00000	0.999991	
Sr 421.552	4	Lin Thru 0	0.0	8020000	0.00000	0.999996	
Sr 421.552 R	1	Lin Thru 0	0.0	362400	0.00000	1.000000	
U 424.167	4	Lin Thru 0	0.0	4775	0.00000	0.999992	

VM 7/30/14

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 401
Date Collected: 7/29/2014 10:52:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV CAT

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: ICV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30751.6	98.349	%	0.3309				0.34%
Y 371.029	547373.3	97.653	%	1.1628				1.19%
Ag 328.068†	6.4	0.00007	mg/L	0.000296	0.00007	mg/L	0.000296	405.64%
Al 396.153†	191.1	0.00362	mg/L	0.001324	0.00362	mg/L	0.001324	36.57%
As 188.979†	-2.3	-0.00464	mg/L	0.004497	-0.00464	mg/L	0.004497	96.88%
As 193.696†	-6.7	-0.01087	mg/L	0.011159	-0.01087	mg/L	0.011159	102.67%
B 249.772†	-1998.5	-0.04640	mg/L	0.005743	-0.04640	mg/L	0.005743	12.38%
B 249.677†	60.8	0.002	mg/L	0.0005	0.002	mg/L	0.0005	24.89%
Ba 233.527†	1.9	0.00004	mg/L	0.000313	0.00004	mg/L	0.000313	745.91%
Be 313.107†	506.8	0.00017	mg/L	0.000023	0.00017	mg/L	0.000023	13.76%
Ca 317.933†	331758.1	54.679	mg/L	0.0991	54.679	mg/L	0.0991	0.18%
QC value within limits for Ca 317.933 Recovery = 109.36%								
Cd 228.802†	-8.8	-0.00089	mg/L	0.000441	-0.00089	mg/L	0.000441	49.59%
Cd 226.502†	7.0	0.00022	mg/L	0.000129	0.00022	mg/L	0.000129	57.94%
Co 228.616†	10.9	0.00087	mg/L	0.000766	0.00087	mg/L	0.000766	87.82%
Cr 267.716†	18.3	0.00076	mg/L	0.000133	0.00076	mg/L	0.000133	17.57%
Cr 205.560†	-14.4	-0.00068	mg/L	0.000772	-0.00068	mg/L	0.000772	113.58%
Cu 324.752†	-116.0	-0.00100	mg/L	0.000259	-0.00100	mg/L	0.000259	25.99%
Fe 238.204†	8.0	0.00226	mg/L	0.004483	0.00226	mg/L	0.004483	198.22%
K 766.490†	142717.4	53.136	mg/L	0.0364	53.136	mg/L	0.0364	0.07%
QC value within limits for K 766.490 Recovery = 106.27%								
Mg 285.213†	451644.6	54.477	mg/L	0.0418	54.477	mg/L	0.0418	0.08%
QC value within limits for Mg 285.213 Recovery = 108.95%								
Mn 257.610†	551.8	0.00222	mg/L	0.000059	0.00222	mg/L	0.000059	2.67%
Mo 202.031†	5.5	0.00086	mg/L	0.000423	0.00086	mg/L	0.000423	49.00%
Na 589.592†	409649.2	54.346	mg/L	0.0233	54.346	mg/L	0.0233	0.04%
QC value within limits for Na 589.592 Recovery = 108.69%								
Ni 231.604†	11.3	0.00064	mg/L	0.000247	0.00064	mg/L	0.000247	38.81%
Pb 220.353†	3.3	0.00091	mg/L	0.000806	0.00091	mg/L	0.000806	88.15%
Pb 217.000†	-0.6	-0.00064	mg/L	0.006586	-0.00064	mg/L	0.006586	>999.9%
Sb 206.836†	-8.3	-0.01017	mg/L	0.006983	-0.01017	mg/L	0.006983	68.68%
Se 203.985†	-29.0	-0.05380	mg/L	0.011511	-0.05380	mg/L	0.011511	21.40%
Se 196.026†	-13.4	-0.02325	mg/L	0.003544	-0.02325	mg/L	0.003544	15.24%
Si 212.412†	-4.7	-0.002	mg/L	0.0028	-0.002	mg/L	0.0028	174.45%
Sn 189.927†	13.9	0.00755	mg/L	0.002350	0.00755	mg/L	0.002350	31.11%
Ti 334.940†	843.5	0.00187	mg/L	0.000101	0.00187	mg/L	0.000101	5.37%
Tl 190.801†	4.7	0.00616	mg/L	0.003896	0.00616	mg/L	0.003896	63.21%
U 385.958†	86.2	0.00552	mg/L	0.001659	0.00552	mg/L	0.001659	30.08%
V 292.402†	133.0	0.00156	mg/L	0.000184	0.00156	mg/L	0.000184	11.78%
Zn 206.200†	43.5	0.00263	mg/L	0.000335	0.00263	mg/L	0.000335	12.74%
Sr 421.552†	2374.0	0.00030	mg/L	0.000013	0.00030	mg/L	0.000013	4.36%
Sr 421.552 R†	36.2	0.000	mg/L	0.0001	0.000	mg/L	0.0001	132.60%
U 424.167†	-130.5	-0.02732	mg/L	0.006031	-0.02732	mg/L	0.006031	22.07%

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/29/2014 10:56:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Sr 421.552 R†	-0.2	-0.000 mg/L	0.0001	-0.000 mg/L	0.0001	>999.9%
U 424.167†	40.0	0.00837 mg/L	0.002952	0.00837 mg/L	0.002952	35.28%

QC value within limits for U 424.167 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/29/2014 10:58:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32151.9	102.83	%	0.868				0.84%
Y 371.029	570284.6	101.74	%	0.252				0.25%
Ag 328.068†	439.9	0.00501	mg/L	0.000073	0.00501	mg/L	0.000073	1.45%
QC value within limits for Ag 328.068 Recovery = 100.12%								
Al 396.153†	665.8	0.01261	mg/L	0.000222	0.01261	mg/L	0.000222	1.76%
QC value within limits for Al 396.153 Recovery = 126.15%								
As 188.979†	7.1	0.01403	mg/L	0.002956	0.01403	mg/L	0.002956	21.07%
QC value within limits for As 188.979 Recovery = 70.17%								
As 193.696†	10.8	0.01747	mg/L	0.005407	0.01747	mg/L	0.005407	30.95%
B 249.772†	1960.5	0.04551	mg/L	0.004403	0.04551	mg/L	0.004403	9.67%
QC value within limits for B 249.772 Recovery = 113.79%								
B 249.677†	1240.7	0.042	mg/L	0.0011	0.042	mg/L	0.0011	2.52%
Ba 233.527†	85.1	0.00193	mg/L	0.000091	0.00193	mg/L	0.000091	4.70%
QC value within limits for Ba 233.527 Recovery = 96.33%								
Be 313.107†	6210.4	0.00204	mg/L	0.000019	0.00204	mg/L	0.000019	0.92%
QC value within limits for Be 313.107 Recovery = 101.90%								
Ca 317.933†	3485.6	0.57449	mg/L	0.008081	0.57449	mg/L	0.008081	1.41%
QC value within limits for Ca 317.933 Recovery = 114.90%								
Cd 228.802†	21.7	0.00219	mg/L	0.000056	0.00219	mg/L	0.000056	2.56%
QC value within limits for Cd 228.802 Recovery = 109.60%								
Cd 226.502†	60.9	0.00195	mg/L	0.000046	0.00195	mg/L	0.000046	2.39%
Co 228.616†	87.2	0.00695	mg/L	0.000296	0.00695	mg/L	0.000296	4.26%
QC value within limits for Co 228.616 Recovery = 115.82%								
Cr 267.716†	143.1	0.00590	mg/L	0.000254	0.00590	mg/L	0.000254	4.31%
Cr 205.560†	117.1	0.00553	mg/L	0.000979	0.00553	mg/L	0.000979	17.70%
QC value within limits for Cr 205.560 Recovery = 92.24%								
Cu 324.752†	858.2	0.00737	mg/L	0.000189	0.00737	mg/L	0.000189	2.56%
QC value within limits for Cu 324.752 Recovery = 122.78%								
Fe 238.204†	77.2	0.02197	mg/L	0.000701	0.02197	mg/L	0.000701	3.19%
QC value within limits for Fe 238.204 Recovery = 109.86%								
K 766.490†	1291.5	0.48086	mg/L	0.055068	0.48086	mg/L	0.055068	11.45%
QC value within limits for K 766.490 Recovery = 96.17%								
Mg 285.213†	4350.3	0.52473	mg/L	0.003628	0.52473	mg/L	0.003628	0.69%
QC value within limits for Mg 285.213 Recovery = 104.95%								
Mn 257.610†	566.3	0.00228	mg/L	0.000077	0.00228	mg/L	0.000077	3.39%
QC value within limits for Mn 257.610 Recovery = 114.17%								
Mo 202.031†	45.2	0.00712	mg/L	0.000748	0.00712	mg/L	0.000748	10.50%
QC value within limits for Mo 202.031 Recovery = 88.98%								
Na 589.592†	3892.1	0.51633	mg/L	0.002376	0.51633	mg/L	0.002376	0.46%
QC value within limits for Na 589.592 Recovery = 103.27%								
Ni 231.604†	118.3	0.00666	mg/L	0.000299	0.00666	mg/L	0.000299	4.50%
QC value within limits for Ni 231.604 Recovery = 133.11%								
Pb 220.353†	17.6	0.00481	mg/L	0.001412	0.00481	mg/L	0.001412	29.35%
QC value within limits for Pb 220.353 Recovery = 96.23%								
Pb 217.000†	6.6	0.00725	mg/L	0.006915	0.00725	mg/L	0.006915	95.44%
Sb 206.836†	39.2	0.04794	mg/L	0.004413	0.04794	mg/L	0.004413	9.21%
QC value within limits for Sb 206.836 Recovery = 95.88%								
Se 203.985†	19.8	0.03676	mg/L	0.016457	0.03676	mg/L	0.016457	44.77%

QC value within limits for Mn 257.610 Recovery = 110.38%						
Mo 202.031†	3424.5	0.53961 mg/L	0.004649	0.53961 mg/L	0.004649	0.86%
QC value within limits for Mo 202.031 Recovery = 107.92%						
Na 589.592†	31.1	0.00412 mg/L	0.002618	0.00412 mg/L	0.002618	63.56%
Ni 231.604†	9403.9	0.52912 mg/L	0.002305	0.52912 mg/L	0.002305	0.44%
QC value within limits for Ni 231.604 Recovery = 105.82%						
Pb 220.353†	1930.4	0.52763 mg/L	0.001829	0.52763 mg/L	0.001829	0.35%
QC value within limits for Pb 220.353 Recovery = 105.53%						
Pb 217.000†	525.1	0.57798 mg/L	0.014760	0.57798 mg/L	0.014760	2.55%
Sb 206.836†	420.8	0.51485 mg/L	0.004363	0.51485 mg/L	0.004363	0.85%
QC value within limits for Sb 206.836 Recovery = 102.97%						
Se 203.985†	297.3	0.55163 mg/L	0.017720	0.55163 mg/L	0.017720	3.21%
Se 196.026†	337.9	0.58607 mg/L	0.019020	0.58607 mg/L	0.019020	3.25%
QC value within limits for Se 196.026 Recovery = 117.21%						
Si 212.412†	8354.8	2.841 mg/L	0.0177	2.841 mg/L	0.0177	0.62%
QC value within limits for Si 212.412 Recovery = 113.65%						
Sn 189.927†	999.7	0.54469 mg/L	0.000191	0.54469 mg/L	0.000191	0.04%
QC value within limits for Sn 189.927 Recovery = 108.94%						
Ti 334.940†	246628.8	0.54759 mg/L	0.003192	0.54759 mg/L	0.003192	0.58%
QC value within limits for Ti 334.940 Recovery = 109.52%						
Tl 190.801†	431.0	0.56291 mg/L	0.003150	0.56291 mg/L	0.003150	0.56%
QC value within limits for Tl 190.801 Recovery = 112.58%						
U 385.958†	12817.0	0.81981 mg/L	0.005164	0.81981 mg/L	0.005164	0.63%
V 292.402†	47731.7	0.56036 mg/L	0.003619	0.56036 mg/L	0.003619	0.65%
QC value within limits for V 292.402 Recovery = 112.07%						
Zn 206.200†	9335.4	0.56505 mg/L	0.004391	0.56505 mg/L	0.004391	0.78%
QC value within limits for Zn 206.200 Recovery = 113.01%						
Sr 421.552†	1075011.3	0.13404 mg/L	0.000240	0.13404 mg/L	0.000240	0.18%
QC value within limits for Sr 421.552 Recovery = 107.23%						
Sr 421.552 R†	48661.9	0.134 mg/L	0.0003	0.134 mg/L	0.0003	0.25%
U 424.167†	2161.7	0.45272 mg/L	0.016777	0.45272 mg/L	0.016777	3.71%
QC value within limits for U 424.167 Recovery = 90.54%						
QC Failed. Continue with analysis.						

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 7/29/2014 11:02:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31645.9	101.21	%	1.119				1.11%
Y 371.029	569339.2	101.57	%	1.049				1.03%
Ag 328.068†	-24.0	-0.00027	mg/L	0.000520	-0.00027	mg/L	0.000520	190.69%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	3113970.6	59.001	mg/L	1.0563	59.001	mg/L	1.0563	1.79%
As 188.979†	-1.2	-0.00241	mg/L	0.001972	-0.00241	mg/L	0.001972	81.68%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-51.5	-0.08290	mg/L	0.005175	-0.08290	mg/L	0.005175	6.24%
B 249.772†	5447.0	0.12646	mg/L	0.006077	0.12646	mg/L	0.006077	4.81%
QC value greater than the upper limit for B 249.772 Recovery = Not calculated								
B 249.677†	-2052.8	-0.070	mg/L	0.0010	-0.070	mg/L	0.0010	1.51%
Ba 233.527†	48.0	0.00109	mg/L	0.000484	0.00109	mg/L	0.000484	44.59%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	369.6	0.00012	mg/L	0.000015	0.00012	mg/L	0.000015	12.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	333417.3	54.953	mg/L	0.0645	54.953	mg/L	0.0645	0.12%
Cd 228.802†	-8.6	-0.00087	mg/L	0.000197	-0.00087	mg/L	0.000197	22.63%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-14.2	-0.00045	mg/L	0.000150	-0.00045	mg/L	0.000150	33.20%

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B 249.772†	855.8	0.01987 mg/L	0.004801	0.01987 mg/L	0.004801	24.17%
B 249.677†	74.8	0.003 mg/L	0.0001	0.003 mg/L	0.0001	5.71%
Ba 233.527†	12.8	0.00029 mg/L	0.000154	0.00029 mg/L	0.000154	53.30%
Be 313.107†	-478.8	-0.00016 mg/L	0.000012	-0.00016 mg/L	0.000012	7.92%
Ca 317.933†	302.0	0.04978 mg/L	0.001187	0.04978 mg/L	0.001187	2.38%
Cd 228.802†	0.9	0.00009 mg/L	0.000234	0.00009 mg/L	0.000234	246.97%
Cd 226.502†	-2.0	-0.00007 mg/L	0.000119	-0.00007 mg/L	0.000119	181.85%
Co 228.616†	-9.9	-0.00079 mg/L	0.000902	-0.00079 mg/L	0.000902	114.45%
Cr 267.716†	9.0	0.00037 mg/L	0.000063	0.00037 mg/L	0.000063	17.08%
Cr 205.560†	-1.6	-0.00008 mg/L	0.000536	-0.00008 mg/L	0.000536	704.90%
Cu 324.752†	327.7	0.00281 mg/L	0.000190	0.00281 mg/L	0.000190	6.75%
Fe 238.204†	91.6	0.02606 mg/L	0.002170	0.02606 mg/L	0.002170	8.33%
K 766.490†	446.9	0.16640 mg/L	0.014572	0.16640 mg/L	0.014572	8.76%
Mg 285.213†	67.8	0.00818 mg/L	0.000404	0.00818 mg/L	0.000404	4.94%
Mn 257.610†	131.5	0.00053 mg/L	0.000060	0.00053 mg/L	0.000060	11.23%
Mo 202.031†	11.8	0.00185 mg/L	0.000458	0.00185 mg/L	0.000458	24.72%
Na 589.592†	233.9	0.03103 mg/L	0.002814	0.03103 mg/L	0.002814	9.07%
Ni 231.604†	39.1	0.00220 mg/L	0.000143	0.00220 mg/L	0.000143	6.48%
Pb 220.353†	0.9	0.00025 mg/L	0.000732	0.00025 mg/L	0.000732	288.29%
Pb 217.000†	6.6	0.00728 mg/L	0.000626	0.00728 mg/L	0.000626	8.60%
Sb 206.836†	12.2	0.01496 mg/L	0.002955	0.01496 mg/L	0.002955	19.76%
Se 203.985†	-9.2	-0.01707 mg/L	0.028543	-0.01707 mg/L	0.028543	167.20%
Se 196.026†	6.9	0.01190 mg/L	0.017328	0.01190 mg/L	0.017328	145.64%
Si 212.412†	107.7	0.037 mg/L	0.0033	0.037 mg/L	0.0033	9.00%
Sn 189.927†	15.3	0.00835 mg/L	0.000676	0.00835 mg/L	0.000676	8.10%
Ti 334.940†	320.2	0.00071 mg/L	0.000061	0.00071 mg/L	0.000061	8.56%
Tl 190.801†	-1.6	-0.00210 mg/L	0.001981	-0.00210 mg/L	0.001981	94.15%
U 385.958†	-11.1	-0.00071 mg/L	0.002892	-0.00071 mg/L	0.002892	405.68%
V 292.402†	-81.1	-0.00095 mg/L	0.000045	-0.00095 mg/L	0.000045	4.77%
Zn 206.200†	108.4	0.00656 mg/L	0.000126	0.00656 mg/L	0.000126	1.92%
Sr 421.552†	342.6	0.00004 mg/L	0.000014	0.00004 mg/L	0.000014	31.93%
Sr 421.552 R†	1.5	0.000 mg/L	0.0001	0.000 mg/L	0.0001	>999.9%
U 424.167†	37.1	0.00777 mg/L	0.009246	0.00777 mg/L	0.009246	118.99%

Sequence No.: 17
Sample ID: LCS-14462
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 7/29/2014 11:05:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14462

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

RCRA only. 7/30/14

Mean Data: LCS-14462

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31039.1	99.269	%	0.6072				0.61%
Y 371.029	532868.2	95.065	%	0.4144				0.44%
Ag 328.068†	7454.5	0.08483	mg/L	0.000406	0.08483	mg/L	0.000406	0.48%
Al 396.153†	29881.8	0.56617	mg/L	0.002924	0.56617	mg/L	0.002924	0.52%
As 188.979†	236.7	0.47083	mg/L	0.015086	0.47083	mg/L	0.015086	3.20%
As 193.696†	299.7	0.48290	mg/L	0.002357	0.48290	mg/L	0.002357	0.49%
B 249.772†	21576.3	0.50092	mg/L	0.003910	0.50092	mg/L	0.003910	0.78%
B 249.677†	15031.7	0.509	mg/L	0.0050	0.509	mg/L	0.0050	0.98%
Ba 233.527†	21612.8	0.48940	mg/L	0.001567	0.48940	mg/L	0.001567	0.32%
Be 313.107†	1534717.0	0.50364	mg/L	0.000601	0.50364	mg/L	0.000601	0.12%
Ca 317.933†	297770.3	49.078	mg/L	0.3642	49.078	mg/L	0.3642	0.74%
Cd 228.802†	4864.6	0.49048	mg/L	0.002968	0.49048	mg/L	0.002968	0.61%
Cd 226.502†	15144.3	0.48359	mg/L	0.003480	0.48359	mg/L	0.003480	0.72%
Co 228.616†	6149.0	0.48984	mg/L	0.004145	0.48984	mg/L	0.004145	0.85%
Cr 267.716†	11920.0	0.49195	mg/L	0.002779	0.49195	mg/L	0.002779	0.56%
Cr 205.560†	10328.9	0.48817	mg/L	0.003004	0.48817	mg/L	0.003004	0.62%
Cu 324.752†	61452.9	0.52751	mg/L	0.002641	0.52751	mg/L	0.002641	0.50%
Fe 238.204†	1813.6	0.51584	mg/L	0.000561	0.51584	mg/L	0.000561	0.11%
K 766.490†	125775.5	46.828	mg/L	0.3325	46.828	mg/L	0.3325	0.71%

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MDL-11 200uL

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: MDL-11 200uL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31949.4	102.18	%	0.548				0.54%
Y 371.029	558549.7	99.647	%	0.8218				0.82%
Ag 328.068†	435.4	0.00495	mg/L	0.000167	0.00495	mg/L	0.000167	3.37%
Al 396.153†	1404.6	0.02661	mg/L	0.000245	0.02661	mg/L	0.000245	0.92%
As 188.979†	4.8	0.00946	mg/L	0.005152	0.00946	mg/L	0.005152	54.47%
As 193.696†	11.4	0.01834	mg/L	0.000536	0.01834	mg/L	0.000536	2.92%
B 249.772†	2541.7	0.05901	mg/L	0.002515	0.05901	mg/L	0.002515	4.26%
B 249.677†	1229.2	0.042	mg/L	0.0006	0.042	mg/L	0.0006	1.40%
Ba 233.527†	95.2	0.00216	mg/L	0.000245	0.00216	mg/L	0.000245	11.36%
Be 313.107†	5474.1	0.00180	mg/L	0.000016	0.00180	mg/L	0.000016	0.88%
Ca 317.933†	3772.9	0.62184	mg/L	0.005080	0.62184	mg/L	0.005080	0.82%
Cd 228.802†	22.6	0.00227	mg/L	0.000297	0.00227	mg/L	0.000297	13.05%
Cd 226.502†	56.7	0.00181	mg/L	0.000077	0.00181	mg/L	0.000077	4.28%
Co 228.616†	80.4	0.00641	mg/L	0.000305	0.00641	mg/L	0.000305	4.77%
Cr 267.716†	149.1	0.00615	mg/L	0.000049	0.00615	mg/L	0.000049	0.80%
Cr 205.560†	133.2	0.00630	mg/L	0.000664	0.00630	mg/L	0.000664	10.55%
Cu 324.752†	1081.5	0.00928	mg/L	0.000021	0.00928	mg/L	0.000021	0.22%
Fe 238.204†	199.3	0.05670	mg/L	0.001139	0.05670	mg/L	0.001139	2.01%
K 766.490†	1799.3	0.66993	mg/L	0.030514	0.66993	mg/L	0.030514	4.55%
Mg 285.213†	4347.4	0.52438	mg/L	0.001957	0.52438	mg/L	0.001957	0.37%
Mn 257.610†	698.4	0.00282	mg/L	0.000072	0.00282	mg/L	0.000072	2.55%
Mo 202.031†	46.2	0.00728	mg/L	0.001068	0.00728	mg/L	0.001068	14.67%
Na 589.592†	3935.6	0.52211	mg/L	0.001697	0.52211	mg/L	0.001697	0.32%
Ni 231.604†	147.2	0.00828	mg/L	0.000157	0.00828	mg/L	0.000157	1.90%
Pb 220.353†	22.4	0.00613	mg/L	0.002008	0.00613	mg/L	0.002008	32.75%
Pb 217.000†	10.2	0.01123	mg/L	0.003531	0.01123	mg/L	0.003531	31.44%
Sb 206.836†	48.4	0.05925	mg/L	0.005841	0.05925	mg/L	0.005841	9.86%
Se 203.985†	16.3	0.03019	mg/L	0.018647	0.03019	mg/L	0.018647	61.77%
Se 196.026†	36.7	0.06370	mg/L	0.004814	0.06370	mg/L	0.004814	7.56%
Si 212.412†	3377.6	1.149	mg/L	0.0083	1.149	mg/L	0.0083	0.73%
Sn 189.927†	18.2	0.00990	mg/L	0.000541	0.00990	mg/L	0.000541	5.47%
Ti 334.940†	2580.6	0.00573	mg/L	0.000061	0.00573	mg/L	0.000061	1.06%
Tl 190.801†	40.7	0.05313	mg/L	0.001884	0.05313	mg/L	0.001884	3.55%
U 385.958†	1551.8	0.09926	mg/L	0.001955	0.09926	mg/L	0.001955	1.97%
V 292.402†	778.3	0.00914	mg/L	0.000269	0.00914	mg/L	0.000269	2.95%
Zn 206.200†	206.9	0.01252	mg/L	0.000274	0.01252	mg/L	0.000274	2.19%
Sr 421.552†	40498.8	0.00505	mg/L	0.000019	0.00505	mg/L	0.000019	0.38%
Sr 421.552 R†	1827.2	0.005	mg/L	0.0000	0.005	mg/L	0.0000	0.74%
U 424.167†	427.2	0.08946	mg/L	0.003180	0.08946	mg/L	0.003180	3.55%

Sequence No.: 25
Sample ID: MDL-12 200uL
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 7/29/2014 11:21:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MDL-12 200uL

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: MDL-12 200uL

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

	QC value within limits for Ba 233.527 Recovery = 101.08%						
Be	313.107†	1509402.0	0.49533 mg/L	0.000900	0.49533 mg/L	0.000900	0.18%
	QC value within limits for Be 313.107 Recovery = 99.07%						
Ca	317.933†	382.2	0.06300 mg/L	0.006983	0.06300 mg/L	0.006983	11.08%
Cd	228.802†	5031.3	0.50729 mg/L	0.004123	0.50729 mg/L	0.004123	0.81%
	QC value within limits for Cd 228.802 Recovery = 101.46%						
Cd	226.502†	15929.9	0.50868 mg/L	0.003680	0.50868 mg/L	0.003680	0.72%
Co	228.616†	6442.4	0.51322 mg/L	0.002432	0.51322 mg/L	0.002432	0.47%
	QC value within limits for Co 228.616 Recovery = 102.64%						
Cr	267.716†	12181.3	0.50274 mg/L	0.003832	0.50274 mg/L	0.003832	0.76%
Cr	205.560†	10599.7	0.50097 mg/L	0.002705	0.50097 mg/L	0.002705	0.54%
	QC value within limits for Cr 205.560 Recovery = 100.19%						
Cu	324.752†	59564.8	0.51130 mg/L	0.004269	0.51130 mg/L	0.004269	0.83%
	QC value within limits for Cu 324.752 Recovery = 102.26%						
Fe	238.204†	1802.1	0.51258 mg/L	0.009635	0.51258 mg/L	0.009635	1.88%
	QC value within limits for Fe 238.204 Recovery = 102.52%						
K	766.490†	-25.5	-0.00949 mg/L	0.019584	-0.00949 mg/L	0.019584	206.45%
Mg	285.213†	10.7	0.00129 mg/L	0.001112	0.00129 mg/L	0.001112	86.20%
Mn	257.610†	127737.5	0.51506 mg/L	0.003882	0.51506 mg/L	0.003882	0.75%
	QC value within limits for Mn 257.610 Recovery = 103.01%						
Mo	202.031†	3134.3	0.49388 mg/L	0.002113	0.49388 mg/L	0.002113	0.43%
	QC value within limits for Mo 202.031 Recovery = 98.78%						
Na	589.592†	-333.4	-0.04423 mg/L	0.026123	-0.04423 mg/L	0.026123	59.06%
Ni	231.604†	8952.5	0.50372 mg/L	0.004931	0.50372 mg/L	0.004931	0.98%
	QC value within limits for Ni 231.604 Recovery = 100.74%						
Pb	220.353†	1798.4	0.49153 mg/L	0.002544	0.49153 mg/L	0.002544	0.52%
	QC value within limits for Pb 220.353 Recovery = 98.31%						
Pb	217.000†	447.5	0.49258 mg/L	0.003582	0.49258 mg/L	0.003582	0.73%
Sb	206.836†	382.4	0.46795 mg/L	0.008615	0.46795 mg/L	0.008615	1.84%
	QC value within limits for Sb 206.836 Recovery = 93.59%						
Se	203.985†	253.0	0.46932 mg/L	0.007641	0.46932 mg/L	0.007641	1.63%
Se	196.026†	284.4	0.49335 mg/L	0.001590	0.49335 mg/L	0.001590	0.32%
	QC value within limits for Se 196.026 Recovery = 98.67%						
Si	212.412†	7427.6	2.526 mg/L	0.0177	2.526 mg/L	0.0177	0.70%
	QC value within limits for Si 212.412 Recovery = 101.04%						
Sn	189.927†	889.7	0.48477 mg/L	0.002770	0.48477 mg/L	0.002770	0.57%
	QC value within limits for Sn 189.927 Recovery = 96.95%						
Ti	334.940†	222110.7	0.49316 mg/L	0.004099	0.49316 mg/L	0.004099	0.83%
	QC value within limits for Ti 334.940 Recovery = 98.63%						
Tl	190.801†	382.6	0.49961 mg/L	0.004775	0.49961 mg/L	0.004775	0.96%
	QC value within limits for Tl 190.801 Recovery = 99.92%						
U	385.958†	7831.3	0.50091 mg/L	0.005017	0.50091 mg/L	0.005017	1.00%
V	292.402†	42664.4	0.50087 mg/L	0.004164	0.50087 mg/L	0.004164	0.83%
	QC value within limits for V 292.402 Recovery = 100.17%						
Zn	206.200†	8369.2	0.50657 mg/L	0.004060	0.50657 mg/L	0.004060	0.80%
	QC value within limits for Zn 206.200 Recovery = 101.31%						
Sr	421.552†	993285.9	0.12385 mg/L	0.000077	0.12385 mg/L	0.000077	0.06%
	QC value within limits for Sr 421.552 Recovery = 99.08%						
Sr	421.552 R†	44037.2	0.122 mg/L	0.0001	0.122 mg/L	0.0001	0.07%
U	424.167†	2184.2	0.45743 mg/L	0.005126	0.45743 mg/L	0.005126	1.12%
	QC value within limits for U 424.167 Recovery = 91.49%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/29/2014 11:25:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/29/2014 11:27:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32263.7	103.18	%	1.273				1.23%
Y 371.029	575036.5	102.59	%	0.865				0.84%
Ag 328.068†	219.4	0.00250	mg/L	0.000080	0.00250	mg/L	0.000080	3.22%
Al 396.153†	14.2	0.00027	mg/L	0.000482	0.00027	mg/L	0.000482	178.77%
As 188.979†	0.4	0.00072	mg/L	0.002053	0.00072	mg/L	0.002053	286.68%
As 193.696†	-12.7	-0.02052	mg/L	0.009358	-0.02052	mg/L	0.009358	45.61%
B 249.772†	-1366.2	-0.03172	mg/L	0.001412	-0.03172	mg/L	0.001412	4.45%
B 249.677†	54.0	0.002	mg/L	0.0016	0.002	mg/L	0.0016	85.69%
Ba 233.527†	43.5	0.00098	mg/L	0.000164	0.00098	mg/L	0.000164	16.69%
Be 313.107†	898.9	0.00029	mg/L	0.000005	0.00029	mg/L	0.000005	1.77%
Ca 317.933†	305154.1	50.295	mg/L	0.1978	50.295	mg/L	0.1978	0.39%
QC value within limits for Ca 317.933 Recovery = 100.59%								
Cd 228.802†	-7.4	-0.00075	mg/L	0.000383	-0.00075	mg/L	0.000383	51.00%
Cd 226.502†	13.7	0.00044	mg/L	0.000183	0.00044	mg/L	0.000183	41.57%
Co 228.616†	13.6	0.00108	mg/L	0.001574	0.00108	mg/L	0.001574	145.35%
Cr 267.716†	33.7	0.00139	mg/L	0.000158	0.00139	mg/L	0.000158	11.37%
Cr 205.560†	5.9	0.00028	mg/L	0.000298	0.00028	mg/L	0.000298	107.09%
Cu 324.752†	-140.4	-0.00121	mg/L	0.000250	-0.00121	mg/L	0.000250	20.71%
Fe 238.204†	-0.3	-0.00009	mg/L	0.002292	-0.00009	mg/L	0.002292	>999.9%
K 766.490†	129365.8	48.165	mg/L	0.0845	48.165	mg/L	0.0845	0.18%
QC value within limits for K 766.490 Recovery = 96.33%								
Mg 285.213†	416502.2	50.238	mg/L	0.1078	50.238	mg/L	0.1078	0.21%
QC value within limits for Mg 285.213 Recovery = 100.48%								
Mn 257.610†	86.6	0.00035	mg/L	0.000024	0.00035	mg/L	0.000024	6.99%
Mo 202.031†	5.8	0.00091	mg/L	0.000332	0.00091	mg/L	0.000332	36.56%
Na 589.592†	371410.8	49.273	mg/L	0.0517	49.273	mg/L	0.0517	0.10%
QC value within limits for Na 589.592 Recovery = 98.55%								
Ni 231.604†	-6.1	-0.00034	mg/L	0.000168	-0.00034	mg/L	0.000168	49.04%
Pb 220.353†	4.3	0.00117	mg/L	0.001371	0.00117	mg/L	0.001371	117.58%
Pb 217.000†	1.7	0.00182	mg/L	0.009067	0.00182	mg/L	0.009067	498.10%
Sb 206.836†	-9.3	-0.01141	mg/L	0.007994	-0.01141	mg/L	0.007994	70.05%
Se 203.985†	-35.6	-0.06604	mg/L	0.007234	-0.06604	mg/L	0.007234	10.95%
Se 196.026†	-14.6	-0.02526	mg/L	0.016052	-0.02526	mg/L	0.016052	63.55%
Si 212.412†	75.2	0.026	mg/L	0.0025	0.026	mg/L	0.0025	9.68%
Sn 189.927†	13.2	0.00718	mg/L	0.002138	0.00718	mg/L	0.002138	29.77%
Ti 334.940†	-118.4	-0.00026	mg/L	0.000025	-0.00026	mg/L	0.000025	9.61%
Tl 190.801†	4.1	0.00536	mg/L	0.003119	0.00536	mg/L	0.003119	58.23%
U 385.958†	59.8	0.00383	mg/L	0.001476	0.00383	mg/L	0.001476	38.58%
V 292.402†	151.0	0.00177	mg/L	0.000145	0.00177	mg/L	0.000145	8.19%
Zn 206.200†	47.1	0.00285	mg/L	0.000185	0.00285	mg/L	0.000185	6.49%
Sr 421.552†	5662.1	0.00071	mg/L	0.000006	0.00071	mg/L	0.000006	0.80%
Sr 421.552 R†	205.5	0.001	mg/L	0.0001	0.001	mg/L	0.0001	16.67%
U 424.167†	-191.5	-0.04010	mg/L	0.003609	-0.04010	mg/L	0.003609	9.00%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: MDL-13 200uL
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 311
Date Collected: 7/29/2014 11:29:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

K 766.490†	58963.1	21.953 mg/L	0.0665	21.953 mg/L	0.0665	0.30%
Mg 285.213†	277368.8	33.456 mg/L	0.0783	33.456 mg/L	0.0783	0.23%
Mn 257.610†	765588.8	3.0870 mg/L	0.00098	3.0870 mg/L	0.00098	0.03%
Mo 202.031†	20.7	0.00326 mg/L	0.000696	0.00326 mg/L	0.000696	21.36%
Na 589.592†	8494.4	1.1269 mg/L	0.01509	1.1269 mg/L	0.01509	1.34%
Ni 231.604†	1776.7	0.09997 mg/L	0.001178	0.09997 mg/L	0.001178	1.18%
Pb 220.353†	181.9	0.04971 mg/L	0.002188	0.04971 mg/L	0.002188	4.40%
Pb 217.000†	110.9	0.12203 mg/L	0.004157	0.12203 mg/L	0.004157	3.41%
Sb 206.836†	-3.0	-0.00362 mg/L	0.006666	-0.00362 mg/L	0.006666	184.17%
Se 203.985†	-29.5	-0.05466 mg/L	0.021454	-0.05466 mg/L	0.021454	39.25%
Se 196.026†	-18.5	-0.03207 mg/L	0.008071	-0.03207 mg/L	0.008071	25.17%
Si 212.412†	5298.5	1.802 mg/L	0.0067	1.802 mg/L	0.0067	0.37%
Sn 189.927†	20.3	0.01106 mg/L	0.001438	0.01106 mg/L	0.001438	12.99%
Ti 334.940†	438554.5	0.97373 mg/L	0.000475	0.97373 mg/L	0.000475	0.05%
Tl 190.801†	-50.3	-0.06563 mg/L	0.003074	-0.06563 mg/L	0.003074	4.68%
Concentration less than lower limit for Tl 190.801. Lower limit: -0.05 mg/L.						
U 385.958†	33540.4	2.1453 mg/L	0.00904	2.1453 mg/L	0.00904	0.42%
V 292.402†	23841.0	0.27989 mg/L	0.003355	0.27989 mg/L	0.003355	1.20%
Zn 206.200†	5867.6	0.35516 mg/L	0.001834	0.35516 mg/L	0.001834	0.52%
Sr 421.552†	2053943.4	0.25610 mg/L	0.000052	0.25610 mg/L	0.000052	0.02%
Sr 421.552 R†	91360.1	0.252 mg/L	0.0006	0.252 mg/L	0.0006	0.25%
U 424.167†	-616.3	-0.12907 mg/L	0.002689	-0.12907 mg/L	0.002689	2.08%
Concentration less than lower limit for U 424.167. Lower limit: -0.1 mg/L.						

Internal Standard Check failed. Continue with analysis.
User canceled analysis.

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Analysis Begun

Start Time: 7/29/2014 11:45:12 AM **Plasma On Time: 7/29/2014 7:42:36 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072914 B14462.sif
Batch ID: 072914 B14462
Results Data Set: 072914 B14462
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 38 **Autosampler Location: 201**
Sample ID: 1407b35-001b 1000x **Date Collected: 7/29/2014 11:45:13 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 7/29/2014 11:45:25 AM **Plasma On Time: 7/29/2014 7:42:36 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072914 B14462.sif
Batch ID: 072914 B14462
Results Data Set: 072914 B14462
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 38 **Autosampler Location: 201**
Sample ID: 1407b35-001b 1000x **Date Collected: 7/29/2014 11:45:25 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: 1407b35-001b 1000x

Analyte	Back Pressure	Flow

QC value within limits for As 188.979 Recovery = 99.01%						
As 193.696†	306.5	0.49391 mg/L	0.006014	0.49391 mg/L	0.006014	1.22%
B 249.772†	22577.2	0.52416 mg/L	0.015982	0.52416 mg/L	0.015982	3.05%
QC value within limits for B 249.772 Recovery = 104.83%						
B 249.677†	15091.2	0.512 mg/L	0.0107	0.512 mg/L	0.0107	2.10%
Ba 233.527†	23050.4	0.52195 mg/L	0.003878	0.52195 mg/L	0.003878	0.74%
QC value within limits for Ba 233.527 Recovery = 104.39%						
Be 313.107†	1523323.1	0.49990 mg/L	0.000784	0.49990 mg/L	0.000784	0.16%
QC value within limits for Be 313.107 Recovery = 99.98%						
Ca 317.933†	396.7	0.06538 mg/L	0.005238	0.06538 mg/L	0.005238	8.01%
Cd 228.802†	5109.4	0.51516 mg/L	0.002956	0.51516 mg/L	0.002956	0.57%
QC value within limits for Cd 228.802 Recovery = 103.03%						
Co 226.502†	16370.5	0.52275 mg/L	0.005395	0.52275 mg/L	0.005395	1.03%
Co 228.616†	6368.2	0.50731 mg/L	0.002104	0.50731 mg/L	0.002104	0.41%
QC value within limits for Co 228.616 Recovery = 101.46%						
Cr 267.716†	12542.7	0.51765 mg/L	0.005717	0.51765 mg/L	0.005717	1.10%
Cr 205.560†	10757.6	0.50843 mg/L	0.003002	0.50843 mg/L	0.003002	0.59%
QC value within limits for Cr 205.560 Recovery = 101.69%						
Cu 324.752†	60473.4	0.51910 mg/L	0.005582	0.51910 mg/L	0.005582	1.08%
QC value within limits for Cu 324.752 Recovery = 103.82%						
Fe 238.204†	1813.8	0.51589 mg/L	0.004837	0.51589 mg/L	0.004837	0.94%
QC value within limits for Fe 238.204 Recovery = 103.18%						
K 766.490†	-23.5	-0.00877 mg/L	0.044108	-0.00877 mg/L	0.044108	503.08%
Mg 285.213†	-4.4	-0.00053 mg/L	0.000935	-0.00053 mg/L	0.000935	175.87%
Mn 257.610†	131673.1	0.53093 mg/L	0.005607	0.53093 mg/L	0.005607	1.06%
QC value within limits for Mn 257.610 Recovery = 106.19%						
Mo 202.031†	3189.9	0.50264 mg/L	0.003316	0.50264 mg/L	0.003316	0.66%
QC value within limits for Mo 202.031 Recovery = 100.53%						
Na 589.592†	-256.0	-0.03397 mg/L	0.012867	-0.03397 mg/L	0.012867	37.88%
Ni 231.604†	9287.1	0.52255 mg/L	0.006235	0.52255 mg/L	0.006235	1.19%
QC value within limits for Ni 231.604 Recovery = 104.51%						
Pb 220.353†	1849.4	0.50548 mg/L	0.000826	0.50548 mg/L	0.000826	0.16%
QC value within limits for Pb 220.353 Recovery = 101.10%						
Pb 217.000†	447.7	0.49280 mg/L	0.012436	0.49280 mg/L	0.012436	2.52%
Sb 206.836†	383.0	0.46856 mg/L	0.004269	0.46856 mg/L	0.004269	0.91%
QC value within limits for Sb 206.836 Recovery = 93.71%						
Se 203.985†	264.5	0.49065 mg/L	0.012167	0.49065 mg/L	0.012167	2.48%
Se 196.026†	293.1	0.50831 mg/L	0.004883	0.50831 mg/L	0.004883	0.96%
QC value within limits for Se 196.026 Recovery = 101.66%						
Si 212.412†	7402.8	2.518 mg/L	0.0211	2.518 mg/L	0.0211	0.84%
QC value within limits for Si 212.412 Recovery = 100.70%						
Sn 189.927†	921.1	0.50191 mg/L	0.003950	0.50191 mg/L	0.003950	0.79%
QC value within limits for Sn 189.927 Recovery = 100.38%						
Ti 334.940†	228696.6	0.50778 mg/L	0.005184	0.50778 mg/L	0.005184	1.02%
QC value within limits for Ti 334.940 Recovery = 101.56%						
Tl 190.801†	389.7	0.50888 mg/L	0.009832	0.50888 mg/L	0.009832	1.93%
QC value within limits for Tl 190.801 Recovery = 101.78%						
U 385.958†	7914.7	0.50625 mg/L	0.001312	0.50625 mg/L	0.001312	0.26%
V 292.402†	43710.3	0.51315 mg/L	0.005119	0.51315 mg/L	0.005119	1.00%
QC value within limits for V 292.402 Recovery = 102.63%						
Zn 206.200†	8623.1	0.52194 mg/L	0.003097	0.52194 mg/L	0.003097	0.59%
QC value within limits for Zn 206.200 Recovery = 104.39%						
Sr 421.552†	987794.5	0.12316 mg/L	0.000114	0.12316 mg/L	0.000114	0.09%
QC value within limits for Sr 421.552 Recovery = 98.53%						
Sr 421.552 R†	43413.7	0.120 mg/L	0.0003	0.120 mg/L	0.0003	0.23%
U 424.167†	2294.0	0.48042 mg/L	0.010924	0.48042 mg/L	0.010924	2.27%
QC value within limits for U 424.167 Recovery = 96.08%						

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/29/2014 11:49:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow

QC value within limits for Sr 421.552 Recovery = Not calculated

Sr 421.552 R†	15.5	0.000 mg/L	0.0001	0.000 mg/L	0.0001	300.44%
U 424.167†	-77.2	-0.01616 mg/L	0.005462	-0.01616 mg/L	0.005462	33.79%

QC value within limits for U 424.167 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/29/2014 11:50:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029 R	32646.0	104.41	%	1.428				1.37%
Y 371.029	583903.5	104.17	%	0.741				0.71%
Ag 328.068†	221.3	0.00252	mg/L	0.000285	0.00252	mg/L	0.000285	11.31%
Al 396.153†	21.2	0.00040	mg/L	0.000822	0.00040	mg/L	0.000822	204.52%
As 188.979†	-0.1	-0.00021	mg/L	0.000747	-0.00021	mg/L	0.000747	350.52%
As 193.696†	-8.2	-0.01315	mg/L	0.008744	-0.01315	mg/L	0.008744	66.52%
B 249.772†	-1499.3	-0.03481	mg/L	0.000336	-0.03481	mg/L	0.000336	0.96%
B 249.677†	38.8	0.001	mg/L	0.0013	0.001	mg/L	0.0013	95.73%
Ba 233.527†	27.1	0.00061	mg/L	0.000401	0.00061	mg/L	0.000401	65.45%
Be 313.107†	1065.5	0.00035	mg/L	0.000012	0.00035	mg/L	0.000012	3.29%
Ca 317.933†	305166.8	50.297	mg/L	0.0893	50.297	mg/L	0.0893	0.18%
QC value within limits for Ca 317.933 Recovery = 100.59%								
Cd 228.802†	-8.9	-0.00090	mg/L	0.000330	-0.00090	mg/L	0.000330	36.86%
Cd 226.502†	9.9	0.00031	mg/L	0.000167	0.00031	mg/L	0.000167	52.90%
Co 228.616†	12.2	0.00097	mg/L	0.000350	0.00097	mg/L	0.000350	35.91%
Cr 267.716†	22.4	0.00093	mg/L	0.000203	0.00093	mg/L	0.000203	21.93%
Cr 205.560†	-6.3	-0.00030	mg/L	0.000941	-0.00030	mg/L	0.000941	316.60%
Cu 324.752†	-171.1	-0.00147	mg/L	0.000230	-0.00147	mg/L	0.000230	15.67%
Fe 238.204†	12.7	0.00360	mg/L	0.000412	0.00360	mg/L	0.000412	11.43%
K 766.490†	128525.2	47.852	mg/L	0.0624	47.852	mg/L	0.0624	0.13%
QC value within limits for K 766.490 Recovery = 95.70%								
Mg 285.213†	413263.9	49.847	mg/L	0.0120	49.847	mg/L	0.0120	0.02%
QC value within limits for Mg 285.213 Recovery = 99.69%								
Mn 257.610†	96.8	0.00039	mg/L	0.000046	0.00039	mg/L	0.000046	11.91%
Mo 202.031†	2.5	0.00039	mg/L	0.000429	0.00039	mg/L	0.000429	109.23%
Na 589.592†	369004.1	48.953	mg/L	0.0281	48.953	mg/L	0.0281	0.06%
QC value within limits for Na 589.592 Recovery = 97.91%								
Ni 231.604†	-8.5	-0.00048	mg/L	0.000120	-0.00048	mg/L	0.000120	25.07%
Pb 220.353†	0.8	0.00022	mg/L	0.001087	0.00022	mg/L	0.001087	492.45%
Pb 217.000†	3.5	0.00388	mg/L	0.002487	0.00388	mg/L	0.002487	64.02%
Sb 206.836†	-15.6	-0.01909	mg/L	0.007920	-0.01909	mg/L	0.007920	41.49%
Se 203.985†	-36.5	-0.06771	mg/L	0.024163	-0.06771	mg/L	0.024163	35.68%
Se 196.026†	-11.2	-0.01943	mg/L	0.012706	-0.01943	mg/L	0.012706	65.40%
Si 212.412†	76.9	0.026	mg/L	0.0004	0.026	mg/L	0.0004	1.64%
Sn 189.927†	11.1	0.00606	mg/L	0.002669	0.00606	mg/L	0.002669	44.04%
Ti 334.940†	-109.3	-0.00024	mg/L	0.000058	-0.00024	mg/L	0.000058	23.76%
Tl 190.801†	9.9	0.01296	mg/L	0.001947	0.01296	mg/L	0.001947	15.01%
U 385.958†	52.3	0.00335	mg/L	0.000688	0.00335	mg/L	0.000688	20.54%
V 292.402†	140.1	0.00164	mg/L	0.000140	0.00164	mg/L	0.000140	8.50%
Zn 206.200†	44.3	0.00268	mg/L	0.000088	0.00268	mg/L	0.000088	3.26%
Sr 421.552†	5646.7	0.00070	mg/L	0.000006	0.00070	mg/L	0.000006	0.82%
Sr 421.552 R†	203.5	0.001	mg/L	0.0001	0.001	mg/L	0.0001	11.61%
U 424.167†	-198.9	-0.04165	mg/L	0.004503	-0.04165	mg/L	0.004503	10.81%

All analyte(s) passed QC.
User canceled analysis.

Se 203.985†	-35.3	-0.06541 mg/L	0.017648	-0.06541 mg/L	0.017648	26.98%
Se 196.026†	-6.1	-0.01059 mg/L	0.008833	-0.01059 mg/L	0.008833	83.37%

Sequence No.: 44
Sample ID: 1407C55-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 322
Date Collected: 7/29/2014 11:55:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C55-002A

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: 1407C55-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	629659.0	112.33	%	1.191				1.06%
Ag 328.068†	-176.8	-0.00201	mg/L	0.000467	-0.00201	mg/L	0.000467	23.21%
As 188.979†	24.1	0.04789	mg/L	0.000599	0.04789	mg/L	0.000599	1.25%
As 193.696†	-88.6	-0.14270	mg/L	0.002020	-0.14270	mg/L	0.002020	1.42%
Ba 233.527†	84806.3	1.9204	mg/L	0.00325	1.9204	mg/L	0.00325	0.17%
Cd 228.802†	-9.5	-0.00096	mg/L	0.000333	-0.00096	mg/L	0.000333	34.83%
Cd 226.502†	-144.1	-0.00460	mg/L	0.000168	-0.00460	mg/L	0.000168	3.66%
Cr 267.716†	2644.1	0.10913	mg/L	0.001324	0.10913	mg/L	0.001324	1.21%
Cr 205.560†	2034.7	0.09617	mg/L	0.001665	0.09617	mg/L	0.001665	1.73%
Pb 220.353†	246.4	0.06735	mg/L	0.000753	0.06735	mg/L	0.000753	1.12%
Pb 217.000†	113.9	0.12537	mg/L	0.005070	0.12537	mg/L	0.005070	4.04%
Se 203.985†	2.7	0.00508	mg/L	0.016654	0.00508	mg/L	0.016654	327.88%
Se 196.026†	-29.4	-0.05102	mg/L	0.005589	-0.05102	mg/L	0.005589	10.95%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 45
Sample ID: 1407C55-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 323
Date Collected: 7/29/2014 11:56:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C55-002A 2X

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: 1407C55-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	614292.0	109.59	%	0.554				0.51%
Ag 328.068†	-101.3	-0.00115	mg/L	0.000351	-0.00115	mg/L	0.000351	30.44%
As 188.979†	10.9	0.02174	mg/L	0.010732	0.02174	mg/L	0.010732	49.35%
As 193.696†	-42.3	-0.06815	mg/L	0.003164	-0.06815	mg/L	0.003164	4.64%
Ba 233.527†	47031.2	1.0650	mg/L	0.00064	1.0650	mg/L	0.00064	0.06%
Cd 228.802†	-8.2	-0.00083	mg/L	0.000505	-0.00083	mg/L	0.000505	61.12%
Cd 226.502†	-92.6	-0.00296	mg/L	0.000211	-0.00296	mg/L	0.000211	7.13%
Cr 267.716†	1471.3	0.06072	mg/L	0.000347	0.06072	mg/L	0.000347	0.57%
Cr 205.560†	1114.7	0.05268	mg/L	0.001133	0.05268	mg/L	0.001133	2.15%
Pb 220.353†	154.6	0.04225	mg/L	0.001099	0.04225	mg/L	0.001099	2.60%
Pb 217.000†	57.6	0.06344	mg/L	0.001771	0.06344	mg/L	0.001771	2.79%
Se 203.985†	-24.6	-0.04570	mg/L	0.009771	-0.04570	mg/L	0.009771	21.38%
Se 196.026†	-23.0	-0.03983	mg/L	0.009282	-0.03983	mg/L	0.009282	23.31%

Sequence No.: 46
Sample ID: 1407C55-003A
Analyst: ERIC

Autosampler Location: 324
Date Collected: 7/29/2014 11:58:08 AM
Data Type: Original

Mean Data: 1407C55-004A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	672948.7	120.06	%	1.192				0.99%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.1%								
Ag 328.068†	-213.4	-0.00243	mg/L	0.000387	-0.00243	mg/L	0.000387	15.92%
As 188.979†	27.1	0.05400	mg/L	0.006146	0.05400	mg/L	0.006146	11.38%
As 193.696†	-108.7	-0.17511	mg/L	0.009234	-0.17511	mg/L	0.009234	5.27%
Ba 233.527†	44002.3	0.99639	mg/L	0.004664	0.99639	mg/L	0.004664	0.47%
Cd 228.802†	-6.9	-0.00070	mg/L	0.000615	-0.00070	mg/L	0.000615	87.76%
Cd 226.502†	-204.8	-0.00654	mg/L	0.000201	-0.00654	mg/L	0.000201	3.08%
Cr 267.716†	3512.3	0.14496	mg/L	0.000717	0.14496	mg/L	0.000717	0.49%
Cr 205.560†	2678.8	0.12661	mg/L	0.001823	0.12661	mg/L	0.001823	1.44%
Pb 220.353†	224.1	0.06126	mg/L	0.004581	0.06126	mg/L	0.004581	7.48%
Pb 217.000†	104.1	0.11462	mg/L	0.006193	0.11462	mg/L	0.006193	5.40%
Se 203.985†	1.8	0.00334	mg/L	0.026241	0.00334	mg/L	0.026241	785.27%
Se 196.026†	-27.4	-0.04753	mg/L	0.012142	-0.04753	mg/L	0.012142	25.54%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 49
Sample ID: 1407C55-004A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 327
Date Collected: 7/29/2014 12:01:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C55-004A 2X

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: 1407C55-004A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	636594.7	113.57	%	0.814				0.72%
Ag 328.068†	-107.5	-0.00122	mg/L	0.000053	-0.00122	mg/L	0.000053	4.32%
As 188.979†	9.1	0.01812	mg/L	0.001721	0.01812	mg/L	0.001721	9.50%
As 193.696†	-63.6	-0.10239	mg/L	0.005974	-0.10239	mg/L	0.005974	5.83%
Ba 233.527†	25352.5	0.57408	mg/L	0.000722	0.57408	mg/L	0.000722	0.13%
Cd 228.802†	-12.8	-0.00129	mg/L	0.000316	-0.00129	mg/L	0.000316	24.52%
Cd 226.502†	-141.6	-0.00452	mg/L	0.000068	-0.00452	mg/L	0.000068	1.51%
Cr 267.716†	2001.4	0.08260	mg/L	0.001156	0.08260	mg/L	0.001156	1.40%
Cr 205.560†	1535.0	0.07255	mg/L	0.001316	0.07255	mg/L	0.001316	1.81%
Pb 220.353†	123.8	0.03383	mg/L	0.002168	0.03383	mg/L	0.002168	6.41%
Pb 217.000†	57.8	0.06364	mg/L	0.007040	0.06364	mg/L	0.007040	11.06%
Se 203.985†	-29.4	-0.05454	mg/L	0.004992	-0.05454	mg/L	0.004992	9.15%
Se 196.026†	-22.1	-0.03828	mg/L	0.006360	-0.03828	mg/L	0.006360	16.62%

Sequence No.: 50
Sample ID: 1407C55-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 328
Date Collected: 7/29/2014 12:03:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C55-005A

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: 1407C55-005A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	633216.5	112.97	%	0.220				0.20%

Cd 228.802†	5044.0	0.50857 mg/L	0.002872	0.50857 mg/L	0.002872	0.56%
QC value within limits for Cd 228.802 Recovery = 101.71%						
Cd 226.502†	15894.2	0.50754 mg/L	0.001289	0.50754 mg/L	0.001289	0.25%
Cr 267.716†	12180.1	0.50269 mg/L	0.000912	0.50269 mg/L	0.000912	0.18%
Cr 205.560†	10662.0	0.50392 mg/L	0.004782	0.50392 mg/L	0.004782	0.95%
QC value within limits for Cr 205.560 Recovery = 100.78%						
Pb 220.353†	1824.7	0.49874 mg/L	0.003998	0.49874 mg/L	0.003998	0.80%
QC value within limits for Pb 220.353 Recovery = 99.75%						
Pb 217.000†	442.0	0.48648 mg/L	0.008639	0.48648 mg/L	0.008639	1.78%
Se 203.985†	270.9	0.50260 mg/L	0.006819	0.50260 mg/L	0.006819	1.36%
Se 196.026†	287.5	0.49863 mg/L	0.010348	0.49863 mg/L	0.010348	2.08%
QC value within limits for Se 196.026 Recovery = 99.73%						

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/29/2014 12:06:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	602002.5	107.40	%	1.470				1.37%
Ag 328.068†	5.2	0.00006	mg/L	0.000051	0.00006	mg/L	0.000051	86.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.7	-0.00133	mg/L	0.004987	-0.00133	mg/L	0.004987	374.19%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-6.8	-0.01101	mg/L	0.007752	-0.01101	mg/L	0.007752	70.43%
Ba 233.527†	-4.9	-0.00011	mg/L	0.000461	-0.00011	mg/L	0.000461	411.38%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-3.5	-0.00035	mg/L	0.000260	-0.00035	mg/L	0.000260	73.94%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.9	0.00009	mg/L	0.000043	0.00009	mg/L	0.000043	46.06%
Cr 267.716†	-8.7	-0.00036	mg/L	0.000168	-0.00036	mg/L	0.000168	46.86%
Cr 205.560†	4.6	0.00022	mg/L	0.000336	0.00022	mg/L	0.000336	155.33%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	1.5	0.00042	mg/L	0.001913	0.00042	mg/L	0.001913	458.24%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	2.3	0.00251	mg/L	0.009033	0.00251	mg/L	0.009033	359.91%
Se 203.985†	-2.4	-0.00440	mg/L	0.014999	-0.00440	mg/L	0.014999	340.63%
Se 196.026†	-5.2	-0.00905	mg/L	0.007644	-0.00905	mg/L	0.007644	84.50%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/29/2014 12:08:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

7/29/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Cd 226.502†	-110.1	-0.00351	mg/L	0.000096	-0.00351	mg/L	0.000096	2.74%
Cr 267.716†	1803.4	0.07443	mg/L	0.000499	0.07443	mg/L	0.000499	0.67%
Cr 205.560†	1360.5	0.06430	mg/L	0.000899	0.06430	mg/L	0.000899	1.40%
Pb 220.353†	100.6	0.02749	mg/L	0.001402	0.02749	mg/L	0.001402	5.10%
Pb 217.000†	47.1	0.05182	mg/L	0.000813	0.05182	mg/L	0.000813	1.57%
Se 203.985†	-20.9	-0.03871	mg/L	0.008417	-0.03871	mg/L	0.008417	21.74%
Se 196.026†	-6.2	-0.01079	mg/L	0.005248	-0.01079	mg/L	0.005248	48.63%

Sequence No.: 57
Sample ID: 1407C30-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 332
Date Collected: 7/29/2014 12:11:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C30-001A

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: 1407C30-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	586265.8	104.59	%	0.589				0.56%
Ag 328.068†	-368.1	-0.00419	mg/L	0.000325	-0.00419	mg/L	0.000325	7.75%
As 188.979†	39.5	0.07848	mg/L	0.011767	0.07848	mg/L	0.011767	14.99%
As 193.696†	-127.7	-0.20578	mg/L	0.004889	-0.20578	mg/L	0.004889	2.38%
Ba 233.527†	74996.4	1.6982	mg/L	0.00116	1.6982	mg/L	0.00116	0.07%
Cd 228.802†	-7.9	-0.00080	mg/L	0.000437	-0.00080	mg/L	0.000437	54.66%
Cd 226.502†	-120.4	-0.00384	mg/L	0.000390	-0.00384	mg/L	0.000390	10.16%
Cr 267.716†	4469.8	0.18447	mg/L	0.001074	0.18447	mg/L	0.001074	0.58%
Cr 205.560†	3376.8	0.15960	mg/L	0.001828	0.15960	mg/L	0.001828	1.15%
Pb 220.353†	135.2	0.03695	mg/L	0.001738	0.03695	mg/L	0.001738	4.70%
Pb 217.000†	100.6	0.11074	mg/L	0.011954	0.11074	mg/L	0.011954	10.79%
Se 203.985†	74.7	0.13860	mg/L	0.021284	0.13860	mg/L	0.021284	15.36%
Se 196.026†	-68.3	-0.11845	mg/L	0.015199	-0.11845	mg/L	0.015199	12.83%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Sequence No.: 58
Sample ID: 1407C30-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 333
Date Collected: 7/29/2014 12:12:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407C30-001A 2X

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: 1407C30-001A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	588099.0	104.92	%	1.335				1.27%
Ag 328.068†	-264.0	-0.00300	mg/L	0.000222	-0.00300	mg/L	0.000222	7.38%
As 188.979†	19.0	0.03779	mg/L	0.014427	0.03779	mg/L	0.014427	38.17%
As 193.696†	-77.2	-0.12434	mg/L	0.008239	-0.12434	mg/L	0.008239	6.63%
Ba 233.527†	41368.3	0.93674	mg/L	0.002090	0.93674	mg/L	0.002090	0.22%
Cd 228.802†	-7.4	-0.00074	mg/L	0.000594	-0.00074	mg/L	0.000594	80.14%
Cd 226.502†	-104.1	-0.00332	mg/L	0.000186	-0.00332	mg/L	0.000186	5.59%
Cr 267.716†	2445.6	0.10093	mg/L	0.000698	0.10093	mg/L	0.000698	0.69%
Cr 205.560†	1832.3	0.08660	mg/L	0.000141	0.08660	mg/L	0.000141	0.16%
Pb 220.353†	89.7	0.02450	mg/L	0.001712	0.02450	mg/L	0.001712	6.99%
Pb 217.000†	58.0	0.06388	mg/L	0.013153	0.06388	mg/L	0.013153	20.59%
Se 203.985†	29.2	0.05422	mg/L	0.016330	0.05422	mg/L	0.016330	30.12%
Se 196.026†	-45.7	-0.07929	mg/L	0.021531	-0.07929	mg/L	0.021531	27.16%

Mean Data: 1407C43-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	668422.1	119.25	%	0.250				0.21%
Ag 328.068†	68.6	0.00078	mg/L	0.000197	0.00078	mg/L	0.000197	25.23%
As 188.979†	4.3	0.00855	mg/L	0.006322	0.00855	mg/L	0.006322	73.92%
As 193.696†	-56.5	-0.09104	mg/L	0.006151	-0.09104	mg/L	0.006151	6.76%
Ba 233.527†	42342.8	0.95881	mg/L	0.001448	0.95881	mg/L	0.001448	0.15%
Cd 228.802†	-1.3	-0.00013	mg/L	0.000446	-0.00013	mg/L	0.000446	351.63%
Cd 226.502†	-124.5	-0.00398	mg/L	0.000080	-0.00398	mg/L	0.000080	2.00%
Cr 267.716†	2608.4	0.10765	mg/L	0.000584	0.10765	mg/L	0.000584	0.54%
Cr 205.560†	2037.5	0.09630	mg/L	0.000714	0.09630	mg/L	0.000714	0.74%
Pb 220.353†	963.1	0.26322	mg/L	0.002650	0.26322	mg/L	0.002650	1.01%
Pb 217.000†	272.4	0.29984	mg/L	0.006935	0.29984	mg/L	0.006935	2.31%
Se 203.985†	-31.1	-0.05777	mg/L	0.018080	-0.05777	mg/L	0.018080	31.29%
Se 196.026†	-16.1	-0.02792	mg/L	0.010552	-0.02792	mg/L	0.010552	37.79%

Sequence No.: 65
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/29/2014 12:21:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	591853.7	105.59	%	0.202				0.19%
Ag 328.068†	42662.6	0.48551	mg/L	0.000334	0.48551	mg/L	0.000334	0.07%
QC value within limits for Ag 328.068 Recovery = 97.10%								
As 188.979†	243.7	0.48485	mg/L	0.014373	0.48485	mg/L	0.014373	2.96%
QC value within limits for As 188.979 Recovery = 96.97%								
As 193.696†	301.1	0.48511	mg/L	0.003440	0.48511	mg/L	0.003440	0.71%
Ba 233.527†	22248.6	0.50380	mg/L	0.002080	0.50380	mg/L	0.002080	0.41%
QC value within limits for Ba 233.527 Recovery = 100.76%								
Cd 228.802†	5002.8	0.50441	mg/L	0.004169	0.50441	mg/L	0.004169	0.83%
QC value within limits for Cd 228.802 Recovery = 100.88%								
Cd 226.502†	15925.7	0.50854	mg/L	0.000877	0.50854	mg/L	0.000877	0.17%
Cr 267.716†	12105.9	0.49963	mg/L	0.001306	0.49963	mg/L	0.001306	0.26%
Cr 205.560†	10551.9	0.49871	mg/L	0.002455	0.49871	mg/L	0.002455	0.49%
QC value within limits for Cr 205.560 Recovery = 99.74%								
Pb 220.353†	1800.1	0.49201	mg/L	0.001210	0.49201	mg/L	0.001210	0.25%
QC value within limits for Pb 220.353 Recovery = 98.40%								
Pb 217.000†	443.2	0.48783	mg/L	0.009632	0.48783	mg/L	0.009632	1.97%
Se 203.985†	260.1	0.48248	mg/L	0.013883	0.48248	mg/L	0.013883	2.88%
Se 196.026†	287.7	0.49909	mg/L	0.007978	0.49909	mg/L	0.007978	1.60%
QC value within limits for Se 196.026 Recovery = 99.82%								

All analyte(s) passed QC.

Sequence No.: 66
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/29/2014 12:22:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	269.0 kPa	0.55 L/min

8/13/14

Analytical Report
Lab Order: **1407D63**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-001
Client Sample ID: FFOR-CF-0038 Level 3
Collection Date: 7/29/2014 8:55:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD DUE 08/04/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.5	1.0		wt%	1	R20265	7/30/2014 8:42:00 AM

Lab ID: 1407D63-002
Client Sample ID: FFOR-CF-0039
Collection Date: 7/29/2014 9:04:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	12	1.0		wt%	1	R20265	7/30/2014 8:42:00 AM

Lab ID: 1407D63-003
Client Sample ID: FFOR-CF-0040
Collection Date: 7/29/2014 9:11:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.3	1.0		wt%	1	R20265	7/30/2014 8:42:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7-30-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 7-30-14 8:42am	Start Temp: 110C		Reviewed by: 7/31/14
End time: 7-31-14 8:54am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1407d63-001a	31.9	38.78				6.8760		#VALUE!
1407d63-001ams	31.9	39.29				7.3620		#VALUE!
1407d63-001amsd	32.1	39.33				7.2420		#VALUE!
1407d63-002a	31.8	39.00				7.2200		#VALUE!
1407d63-003a	31.9	39.16				7.2960		#VALUE!
MeOH Kits								#VALUE!
1407d63-001a	25.8	38.59	1.00	2.00	2.00	12.7900	0.0000	0.7819
1407d63-001ams	26.1	38.94	1.00	2.00	2.00	12.8400	0.0000	0.7788
1407d63-001amsd	25.8	38.55	1.00	2.00	2.00	12.7500	0.0000	0.7843
1407d63-002a	26.1	38.89	1.00	2.00	2.00	12.7900	0.0000	0.7819
1407d63-003a	26.1	39.49	1.00	2.00	2.00	13.3900	0.0000	0.7468
Pmoist								#VALUE!
1407d63-001a			1.38	21.75	20.22		7.5110	#VALUE!
1407d63-002a			1.42	21.75	19.29		12.1003	#VALUE!
1407d63-003a			1.34	23.69	21.61		9.3065	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID # 1407d63-001a

$$\frac{21.75 - 20.22}{21.75 - 1.38} \times 100 = 7.5110\%$$

cg 7.31.14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID # 1407d63-001a

$$\frac{10g}{12.79g} = 0.7819$$

cg 7.31.14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

JR 8/1/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407D63**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-001 **Collection Date:** 7/29/2014 8:55:00 AM
Client Sample ID: FFOR-CF-0038 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD DUE 08/04/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	130	11		mg/Kg-dry	1	14492	7/31/2014 2:23:45 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	14492	7/31/2014 2:23:45 PM
Surr: DNOP	88.4	57.9-140		%REC	1	14492	7/31/2014 2:23:45 PM

Lab ID: 1407D63-002 **Collection Date:** 7/29/2014 9:04:00 AM
Client Sample ID: FFOR-CF-0039 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14492	7/31/2014 3:25:03 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	14492	7/31/2014 3:25:03 PM
Surr: DNOP	85.3	57.9-140		%REC	1	14492	7/31/2014 3:25:03 PM

Lab ID: 1407D63-003 **Collection Date:** 7/29/2014 9:11:00 AM
Client Sample ID: FFOR-CF-0040 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	5100	110		mg/Kg-dry	10	14492	7/31/2014 4:26:31 PM
Motor Oil Range Organics (MRO)	ND	550		mg/Kg-dry	10	14492	7/31/2014 4:26:31 PM
Surr: DNOP	0	57.9-140	S	%REC	10	14492	7/31/2014 4:26:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **8/1/2014 8:21:15 A**
Prep End Date: **8/1/2014 9:21:55 A**

Prep Factor Units: **mL / g**

Prep Batch ID: **14544** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14544		Soil	BN 8/1/14		10	0	0	10	1.000	8/1/2014	8/1/2014
LCS-14544		Soil			10	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001A	LT-1	Soil			9.98	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001AMS		Soil			10.05	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-001AMSD		Soil			10.02	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-002A	LT-2	Soil			10.03	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-003A	LT-3	Soil			10.06	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-004A	LT-4	Soil			10.12	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-005A	LT-5	Soil			10.14	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-006A	LT-6	Soil			10.08	0	0	10	1.000	8/1/2014	8/1/2014
1407E63-007A	LT-7	Soil			10.15	0	0	10	1.000	8/1/2014	8/1/2014
1407E98-001A	Confirmation	Soil			9.97	0	0	10	1.000	8/1/2014	8/1/2014
1407F02-001A	FFOR-CF-0041	MeOH (Soil)			10.04	0	0	10	1.000	8/1/2014	8/1/2014
1408002-001A	S-1	Soil			9.99	0	0	10	1.001	8/1/2014	8/1/2014
1408003-001A	S-1	Soil			9.91	0	0	10	1.009	8/1/2014	8/1/2014
1408004-001A	SC-1	Soil			10.15	0	0	10	0.985	8/1/2014	8/1/2014
1408005-001A	SC-9 E Wall 0-8'	Soil			9.94	0	0	10	1.000	8/1/2014	8/1/2014
1408005-002A	SC-8 W Wall 0-9'	Soil			9.94	0	0	10	1.000	8/1/2014	8/1/2014
1408005-003A	SC-10 S Wall 0-8'	Soil			10.16	0	0	10	1.000	8/1/2014	8/1/2014
1408005-004A	SC-11 South Base 9'	Soil			10.02	0	0	10	1.000	8/1/2014	8/1/2014
1408005-005A	SC-13 N wall (s exc) 8	Soil			10.00	0	0	10	1.000	8/1/2014	8/1/2014
1408006-001A	Iron Sponge Media (S	Solid			10	0	0	10	1.000	8/1/2014	

Calibration Summary

Instrument: FID #2

Date: 7.23.14

Method: 8015D

Calibration Name: DRO FID#2 072314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: [signature]

QA: [signature]

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

DN 8.1.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1407E30-004A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E30-004A <D>.dat	1
6	Unknown	0	1	1407E30-005A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E30-005A <D>.dat	1
7	Unknown	0	1	1407E30-006A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E30-006A <D>.dat	1
8	Unknown	0	1	1407E30-007A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407E30-007A <D>.dat	1
9	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
10	Unknown	0	1	1407D71-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D71-001A <D>.dat	1
11	Unknown	0	1	1407D71-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D71-002A <D>.dat	1
12	Unknown	0	1	1407D73-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D73-001A <D>.dat	1
13	Unknown	0	1	1407D63-001A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-001A <D>.dat	1
14	Unknown	0	1	1407D63-001AMS	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-001AMS <D>.dat	1
15	Unknown	0	1	1407D63-002A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-002A <D>.dat	1
16	Unknown	0	1	1407D63-003A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-003A <D>.dat	1
17	Unknown	0	1	1407D63-003A	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-003A <D>.dat	1
18	Unknown	0	1	1407D63-001AMSD	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407D63-001AMSD <D>.dat	1

8/1/14

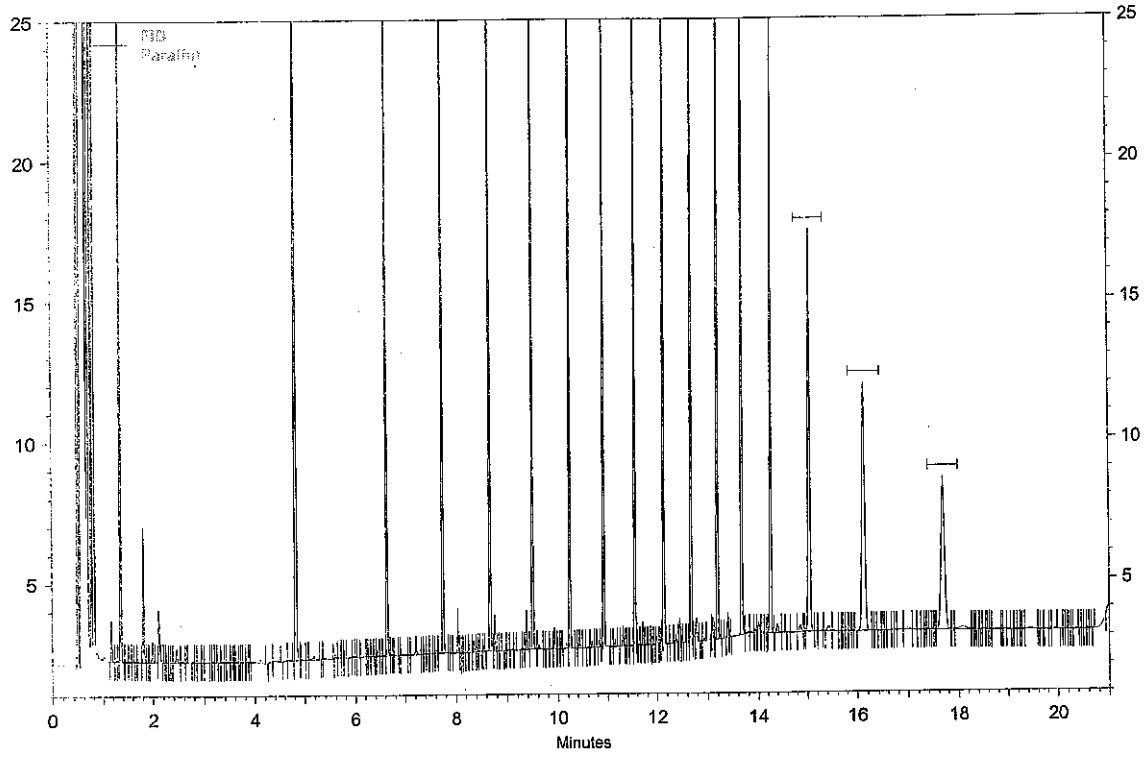
BW 8/1/14

19	Unknown	0	1	100 PPM CCV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

✓ JZ 8/1/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1508**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 07-31-14 8-40-11 AM.dat
Aquired: 7/31/2014 8:48:50 AM



FID Results

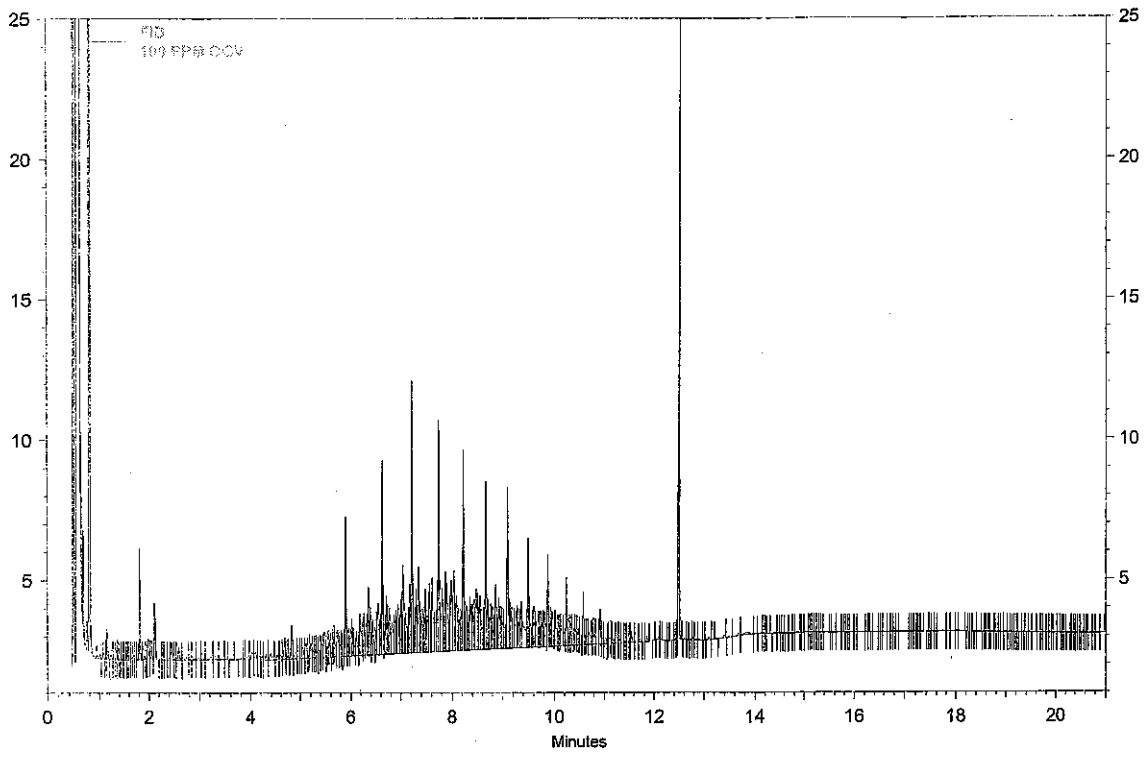
Name	Retention Time	Area	ug/ml
C08	1.35	53045	0.000
C10	4.82	62602	0.000
C12	6.63	60534	0.000
C14	7.75	59216	0.000
C16	8.67	58316	0.000
C18	9.49	57538	0.000
C20	10.23	58049	0.000
C22	10.92	56321	0.000
C24	11.55	56543	0.000
C26	12.13	58640	0.000
C28	12.67	60202	0.000
C30	13.18	59019	0.000
C32	13.66	52680	0.000
C34	14.25	41244	0.000
C36	15.03	34486	0.000
C38	16.13	30978	0.000
C40	17.68	27354	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-31-14 9-10-08 AM.dat
Aquired: 7/31/2014 9:19:18 AM



FID Results

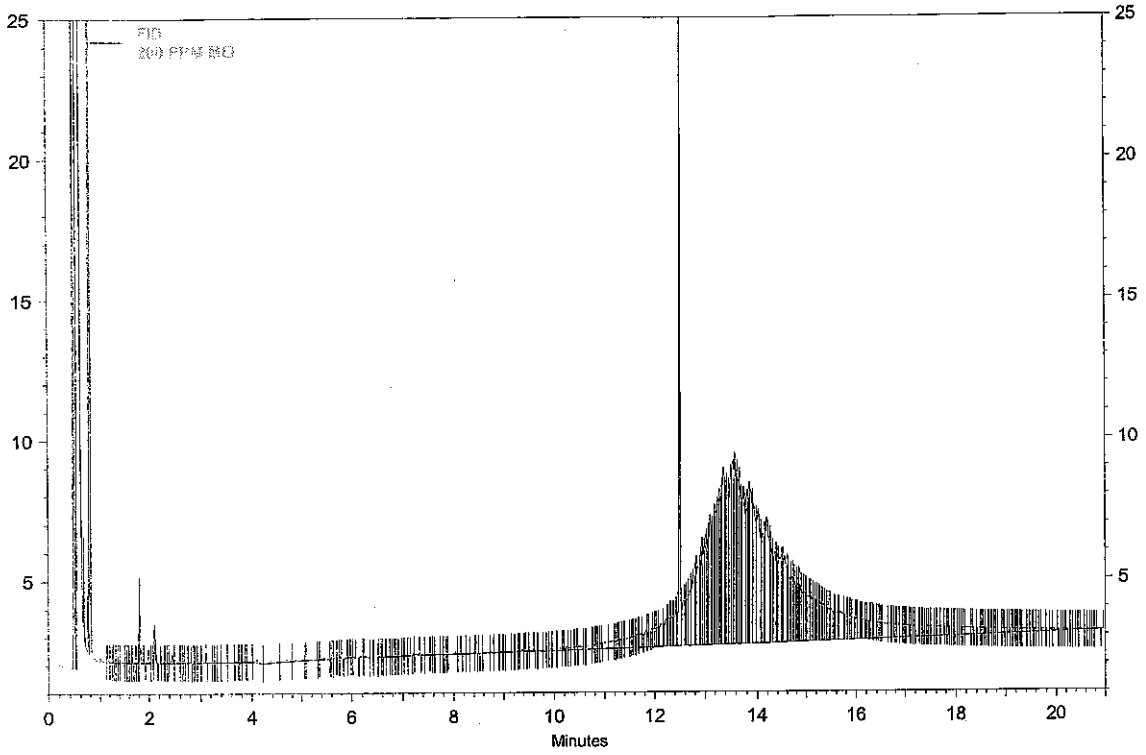
Name	Retention Time	Area	ug/ml
DNOP	12.48	24475	9.340
DRO		327974	92.316
MRO		3573	0.000

Analyst BW

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-31-14 9-40-42 AM.dat
Aquired: 7/31/2014 9:49:53 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	32497	12.350
DRO		37683	11.874
MRO		567855	205.384

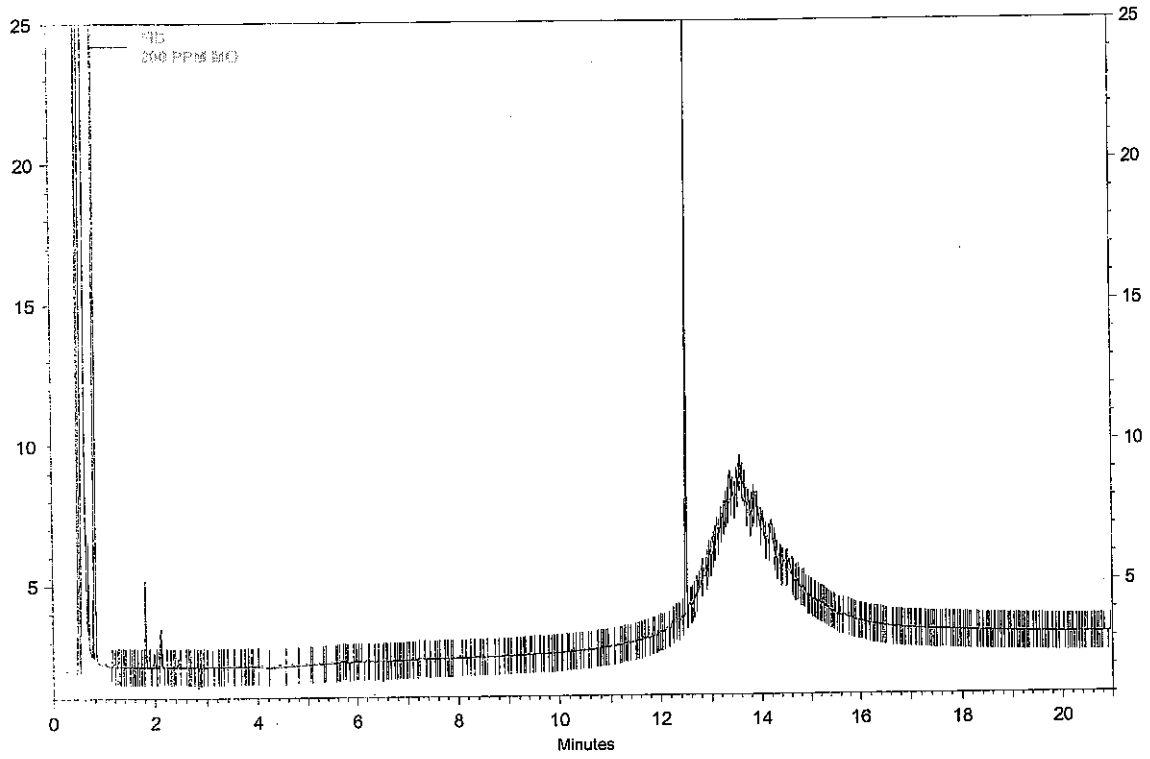
Analyst BN

Reviewed By

12.350
- 9.763
2.567
+ 205.384
207.951 X100
200
=103.9755% ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1526**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-31-14 9-40-42 AM.dat
Aquired: 7/31/2014 9:49:53 AM



FID Results

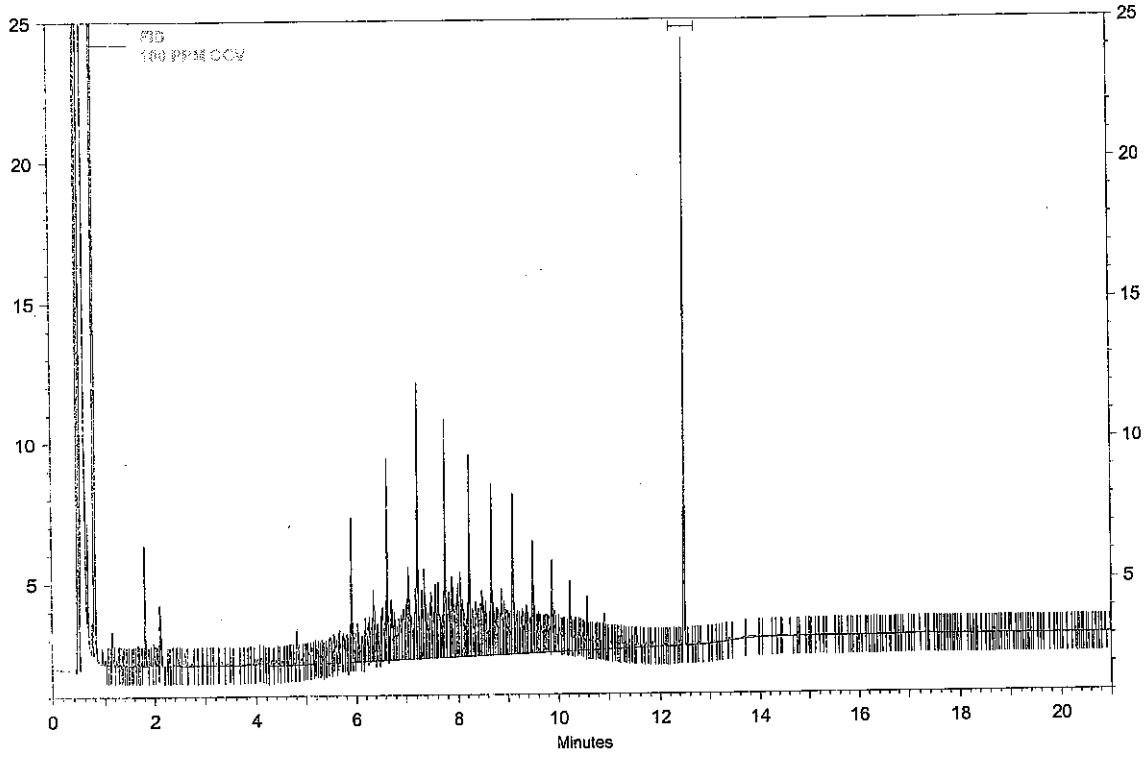
Name	Retention Time	Area	ug/ml
DNOP	12.48	25656	9.783
DRO		6779	3.394
MRO		26176	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-31-14 12-12-36 PM.dat
Aquired: 7/31/2014 12:21:41 PM



FID Results

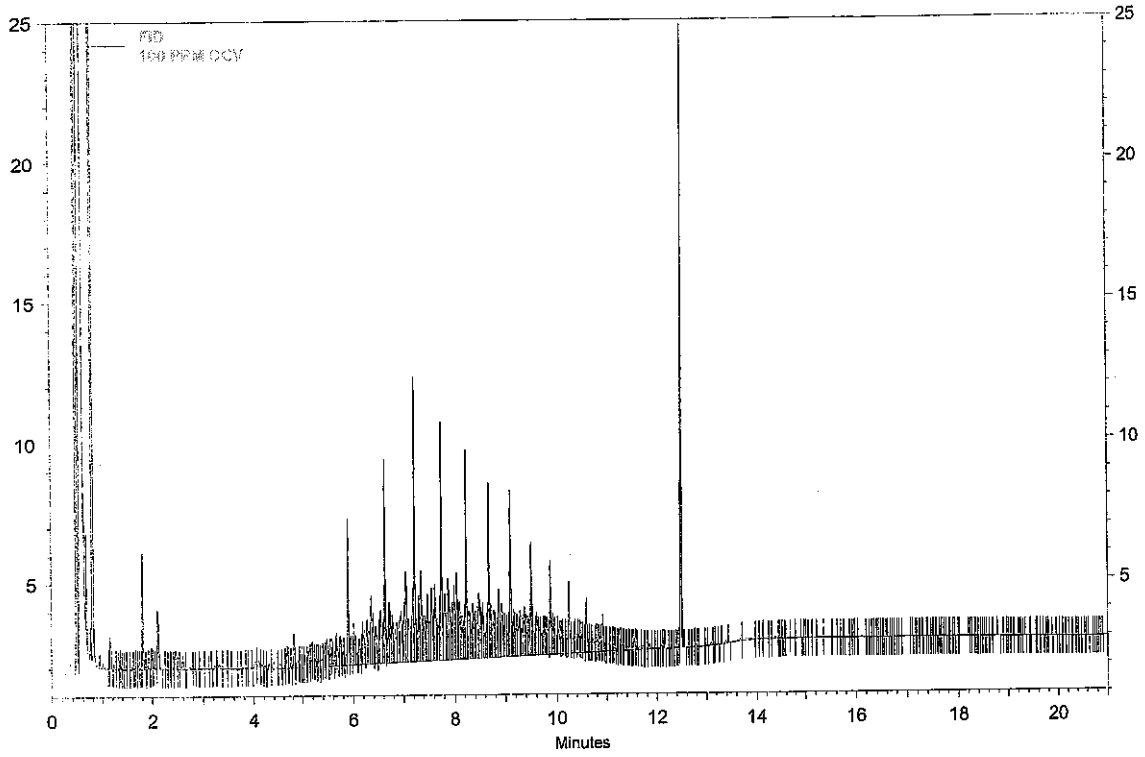
Name	Retention Time	Area	ug/ml
DNOP	12.48	24152	9.219
DRO		348615	98.089
MRO		3491	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1509**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-31-14 5-18-27 PM.dat
Aquired: 7/31/2014 5:27:48 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	24870	9.488
DRO		348176	97.967
MRO		3790	0.000

Analyst BW

Reviewed By

Calibration Report

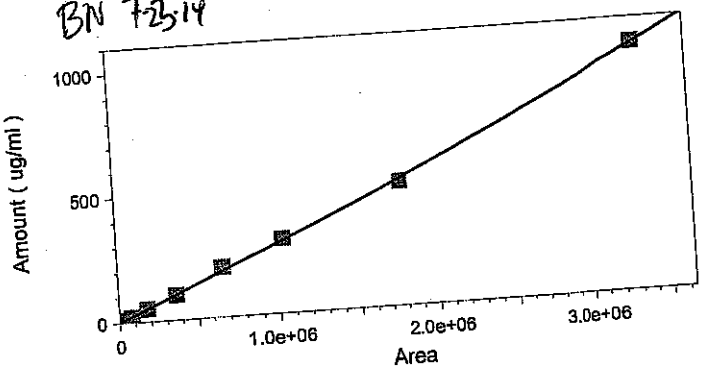
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000274651 RF StDev: 2.91501e-005 RF %RSD: 10.6135
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.41606e-012x^2 + 0.000274030x + 1.53570
Goodness of fit (r^2): 0.999483

√ JR 7/24/14

BN 7-23-14

Group: DRO -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	19249	37000	77990	176595	362975
RF	0.000207803 00275339	0.00027027027 027027	0.000256443133 735094	0.000283133724 057873	0.0002755010 67566637
Last Area Residual	-2.81362	-1.68632	-2.95847	-0.190445	-2.11047
Rep StDev					
Rep %RSD					
Rep 1 Area	19249	37000	77990	176595	362975
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 9:33:09 AM	7/24/2014 9:33:49 AM	7/24/2014 9:34:17 AM	7/24/2014 9:34:37 AM	7/24/2014 9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:43 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	661154	1031177	1771808	3299464
RF	0.000302501	0.00029092968	0.000282197619	0.000303079530
	383943832	5204383	606639	493438
Last Area				
Residual	13.6096	6.94213	-13.4843	2.69196
Rep StDev				
Rep %RSD				
Rep 1 Area	661154	1031177	1771808	3299464
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

Calibration Report

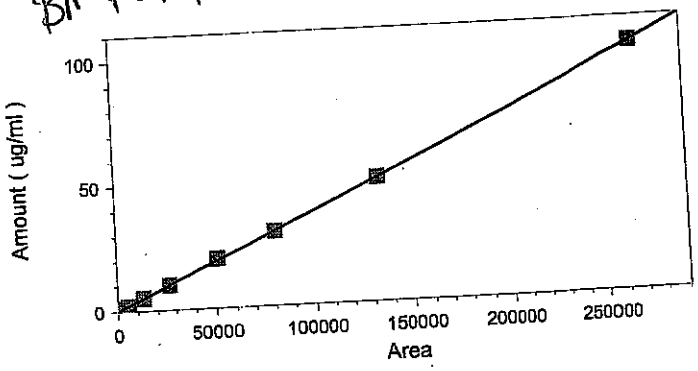
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000445118 RF StDev: 0.000187053 RF %RSD: 42.0233
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.56822e-011x^2 + 0.000374300x + 0.169423
Goodness of fit (r^2): 0.999927

1 7/24/14

BR 7-24-14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	424	2502	5305	12896	26592
RF	0.000943396	0.00039968025	0.000377002827	0.000387717121	0.0003760529
Last Area	226415094	5795364	521206	588089	48255114
Residual	0.0718708	-0.10602	-0.155527	0.000994814	-0.133901
Rep StDev					
Rep %RSD					
Rep 1 Area	424	2502	5305	12896	26592
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 9:33:09 AM	7/24/2014 9:33:49 AM	7/24/2014 9:34:17 AM	7/24/2014 9:34:37 AM	7/24/2014 9:34:59 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:49 AM
User: System
Instrument: FID 2 (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	51020	80114	132795	263699
RF	0.000392003	0.00037446638	0.000376520200	0.000379220247
	136025088	5400804	308747	327445
Last Area				
Residual	0.692965	-0.256753	-0.151152	0.0375213
Rep StDev				
Rep %RSD				
Rep 1 Area	51020	80114	132795	263699
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1,000 ppm
Rep 1 Calib. Time	7/24/2014 9:35:19 AM	7/24/2014 9:35:34 AM	7/24/2014 9:35:58 AM	7/24/2014 9:36:15 AM

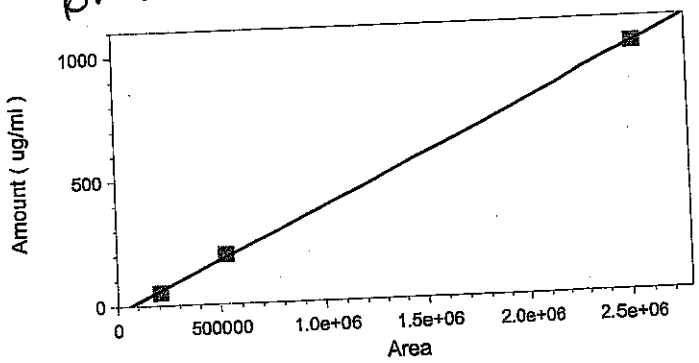
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
Print Time: 7/24/2014 10:58:44 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000338253 RF StDev: 8.46905e-005 RF %RSD: 25.0376
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000405653x - 24.9682
Goodness of fit (r^2): 0.999614

BN 7-23-14 Group: MRO -- ESTD -- FID

7/24/14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	207529	528224	2530354
RF	0.000240930	0.00037862724	0.000395201620
	183251497	9045859	010481
Last Area			
Residual	-9.2165	10.6928	-1.47627
Rep StDev			
Rep %RSD			
Rep 1 Area	207529	528224	2530354
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\80 15dro\Data 2014\FID#2\ Data\50 ppm MO07-23-14 2-25-40 PM.dat	H:\EZsemi\801 5dro\Data 2014\FID#2\Da ta\200 ppm MO07-23-14 2-56-31 PM.dat	H:\EZsemi\8015 dro\Data 2014\FID#2\Dat a\1,000 ppm MO 07-23-14 3-27-33 PM.dat
Rep 1 Sample ID	50 ppm MO	200 ppm MO	1,000 ppm MO
Rep 1 Calib. Time	7/24/2014 9:36:57 AM	7/24/2014 9:37:16 AM	7/24/2014 9:37:32 AM

quence File

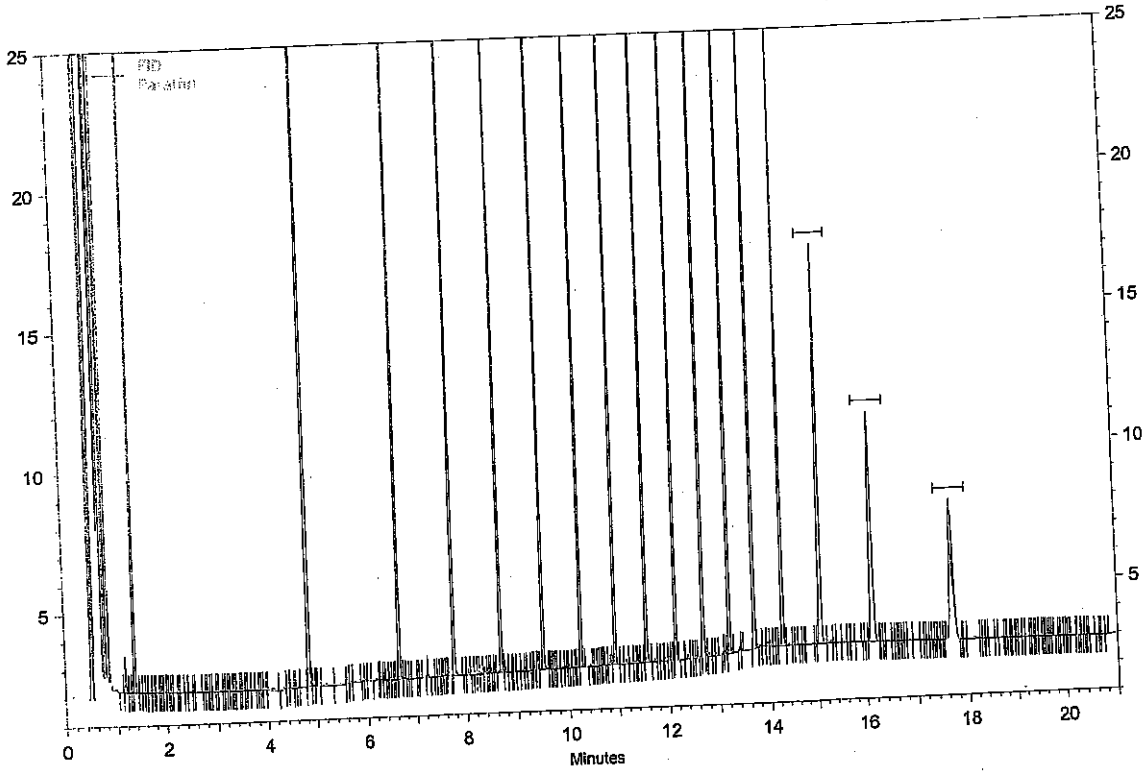
BN 7-23-14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Parafiin <D>.dat	1
3	Unknown	0	1	4 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 ppm<D>.dat	1
4	Unknown	0	1	10 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 ppm<D>.dat	1
5	Unknown	0	1	20 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 ppm<D>.dat	1
6	Unknown	0	1	50 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm<D>.dat	1
7	Unknown	0	1	100 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ppm<D>.dat	1
8	Unknown	0	1	200 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm<D>.dat	1
9	Unknown	0	1	300 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 ppm<D>.dat	1
10	Unknown	0	1	500 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 ppm<D>.dat	1
11	Unknown	0	1	1,000 ppm	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm<D>.dat	1
12	Unknown	0	1	100 ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO<D>.dat	1
14	Unknown	0	1	200 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO<D>.dat	1
15	Unknown	0	1	1,000 ppm MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO <D>.dat	1
16	Unknown	0	1	200 MO ICV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 MO ICV <D>.dat	1

7/24/14

nstument: **FID2 (Offline)** Vial #: **2**
Sample ID: **Paraffin** Data Descritpion: **SV109-1506**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\Parafiin 07-23-14 8-39-58 AM.dat
Aquired: 7/23/2014 8:49:35 AM



FID Results

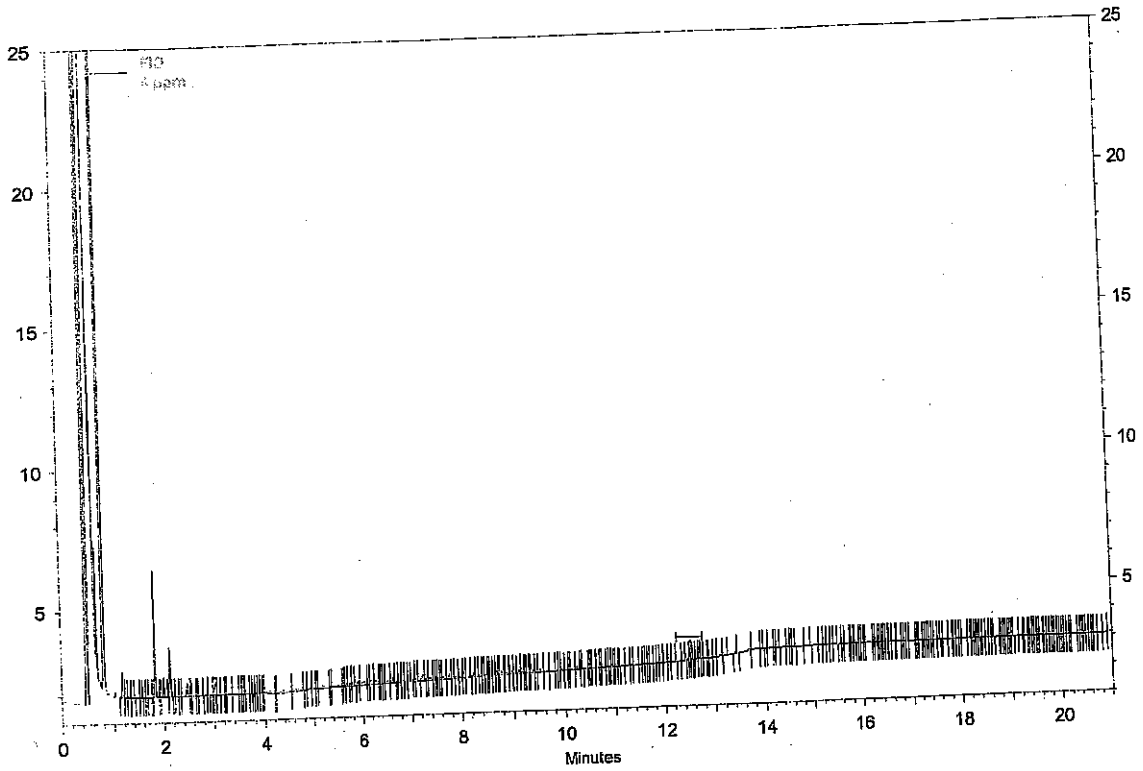
Name	Retention Time	Area	ug/ml
C08	1.35	66298	0.000
C10	4.82	82094	0.000
C12	6.63	79168	0.000
C14	7.75	77216	0.000
C16	8.67	75823	0.000
C18	9.49	74756	0.000
C20	10.24	75229	0.000
C22	10.92	74495	0.000
C24	11.55	74291	0.000
C26	12.13	77121	0.000
C28	12.67	78639	0.000
C30	13.18	76874	0.000
C32	13.66	64338	0.000
C34	14.25	47500	0.000
C36	15.04	36128	0.000
C38	16.13	29475	0.000
C40	17.69	6099	0.000

Analyst BN

Reviewed By

Instrument: FID2 (Chem)
Sample ID: **4 ppm** Data Descritpion: **SV109-1510**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\4 ppm07-23-14 9-10-47 AM.dat
Acquired: 7/23/2014 9:20:57 AM



FID Results

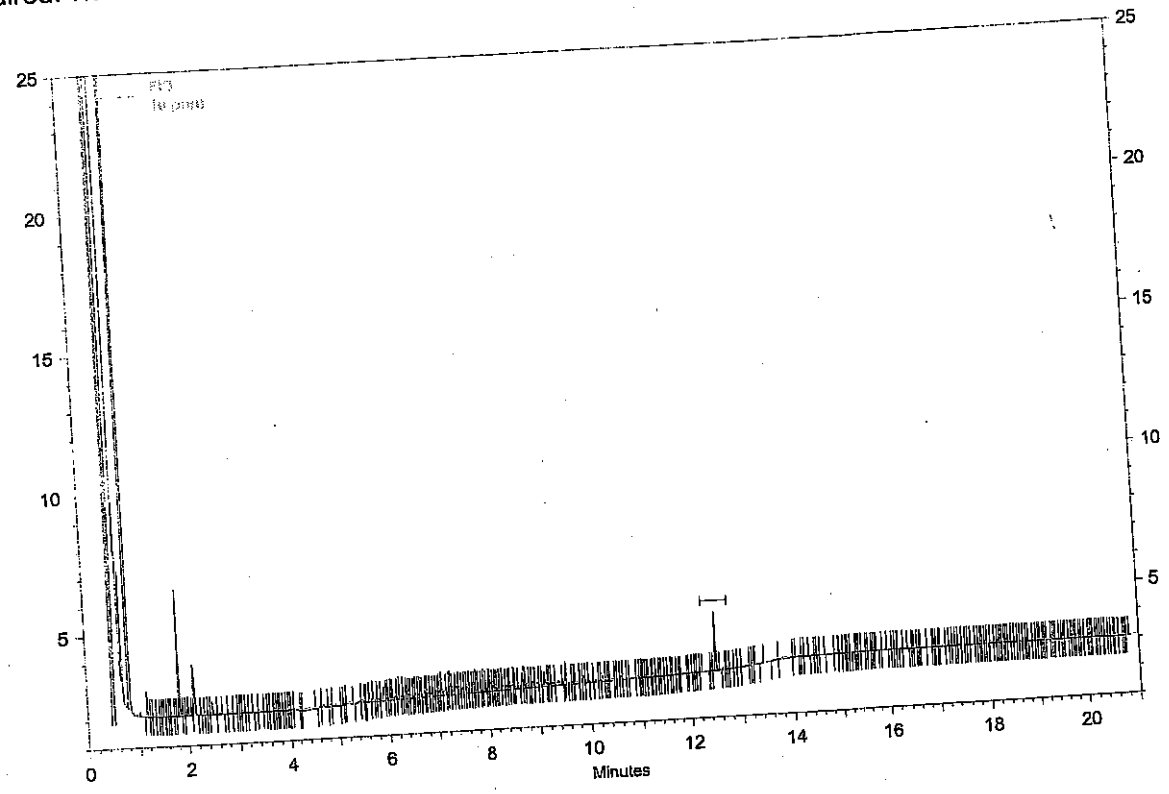
Name	Retention Time	Area	ug/ml
DNOP	12.48	424	0.400 CAL
DRO		19249	4.000 CAL

Analyst BN

Reviewed By

Sample ID: **10 ppm** Data Description: SV103-1011

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\10 ppm07-23-14 9-42-20 AM.dat
Acquired: 7/23/2014 9:52:12 AM



FID Results

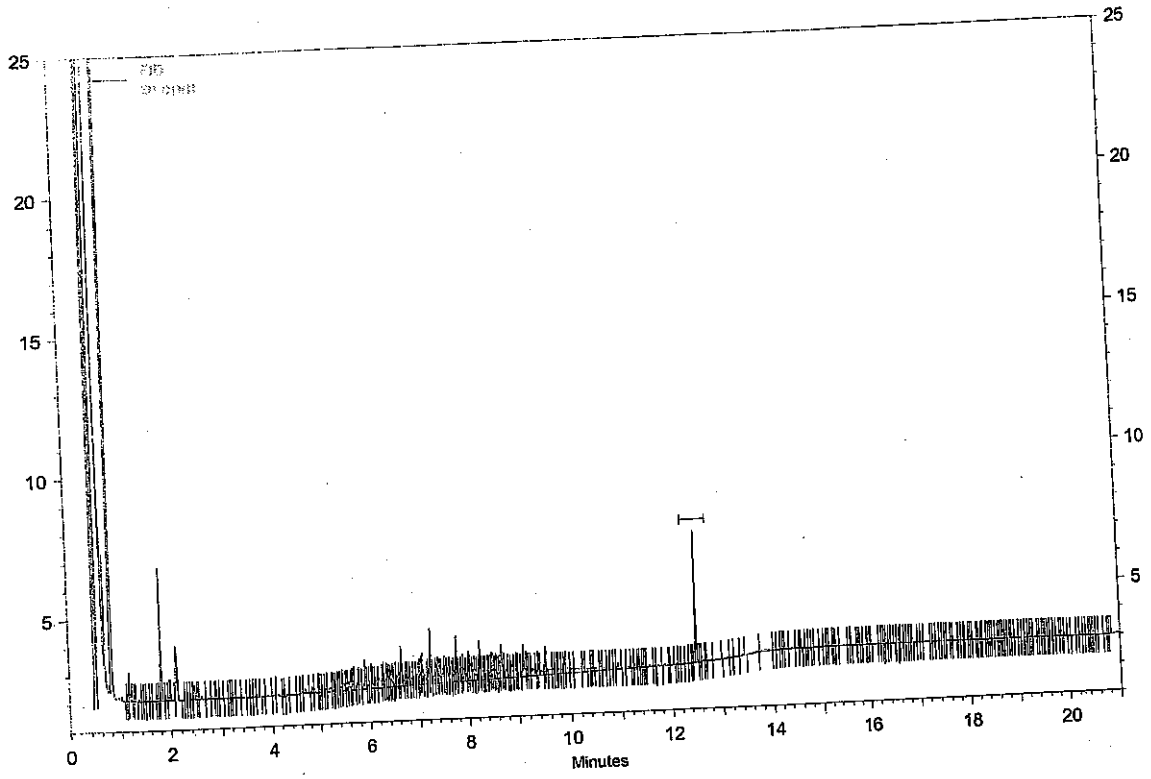
Name	Retention Time	Area	ug/ml
DNOP	12.48	2502	1.000 CAL
DRO		37000	10.000 CAL

Analyst BN

Reviewed By

Sample ID: **20 ppm** Data Descritpion: **SV109-1512**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\20 ppm07-23-14 10-13-24 AM.dat
Aquired: 7/23/2014 10:23:31 AM



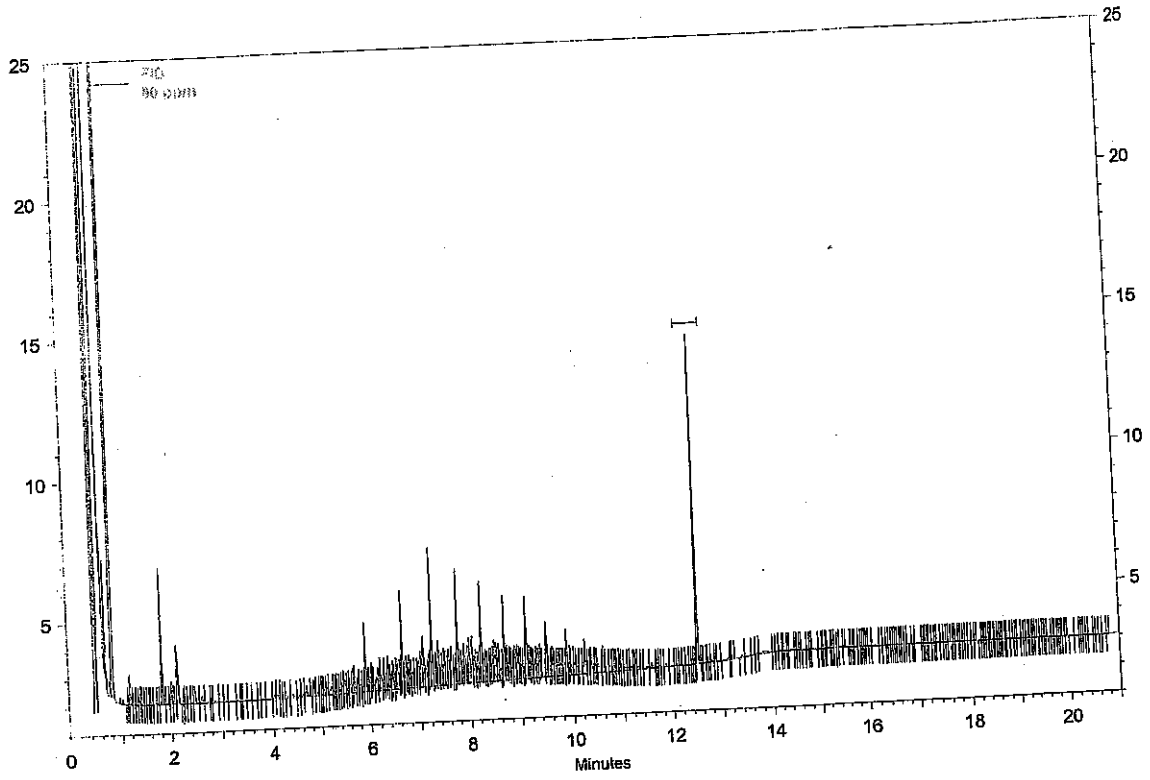
FID Results Name	Retention Time	Area	ug/ml
DNOP	12.49	5305	2.000 CAL
DRO		77990	20.000 CAL

Analyst BN

Reviewed By

Instrument: FID (
Sample ID: **50 ppm** Data Descritpion: **SV109-1513**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\50 ppm07-23-14 10-44-44 AM.dat
Acquired: 7/23/2014 10:54:58 AM



FID Results

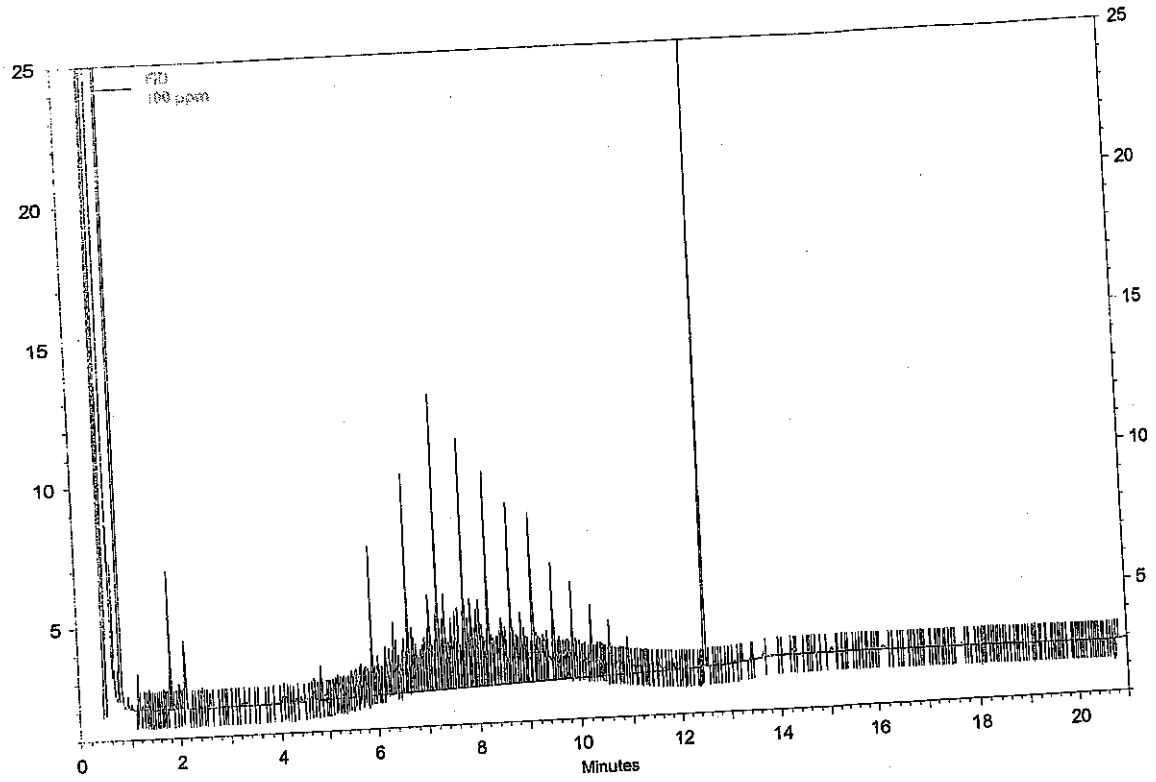
Name	Retention Time	Area	ug/ml
DNOP	12.48	12896	5.000 CAL
DRO		176595	50.000 CAL

Analyst BN

Reviewed By

ample ID: **100 ppm** Data Description: SV100-1011

lethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ppm07-23-14 11-16-20 AM.dat
quired: 7/23/2014 11:26:15 AM



FID Results

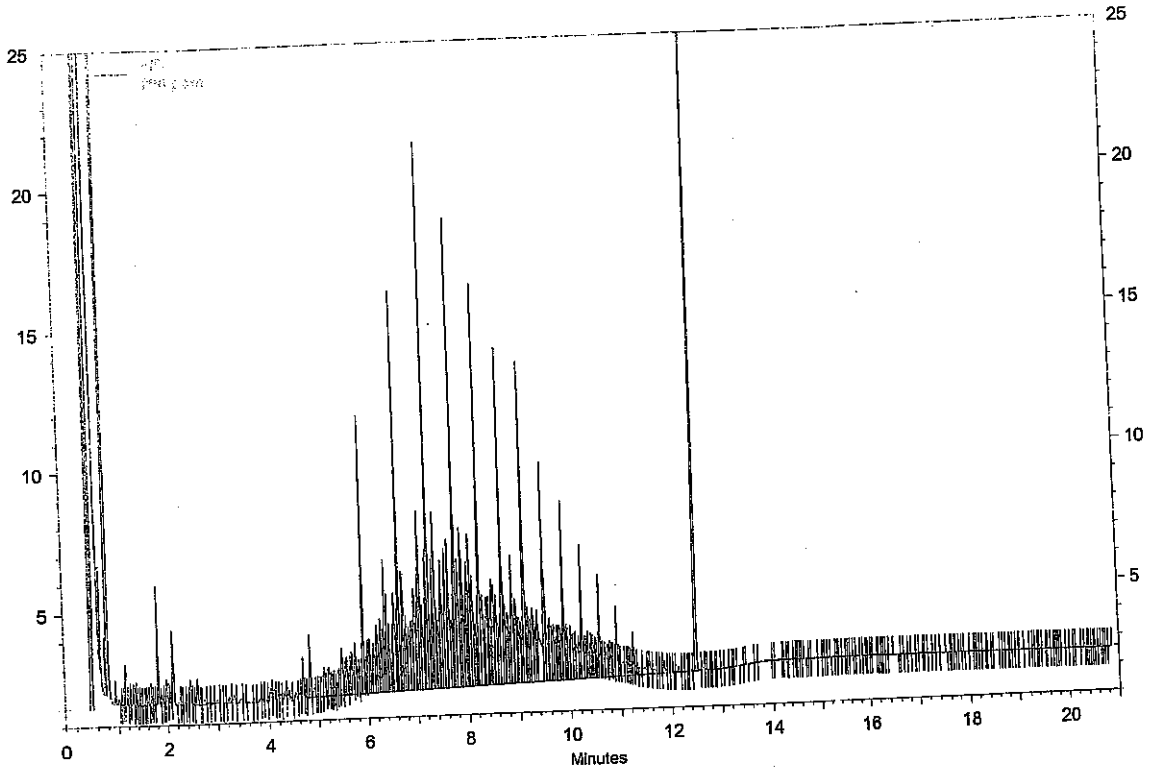
Name	Retention Time	Area	ug/ml
DNOP	12.48	26592	10.000 CAL
DRO		362975	100.000 CAL

Analyst BN

Reviewed By

Sample ID: **200 ppm** Data Description: SV109-1515

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 ppm07-23-14 11-47-27 AM.dat
Aquired: 7/23/2014 11:57:51 AM



FID Results

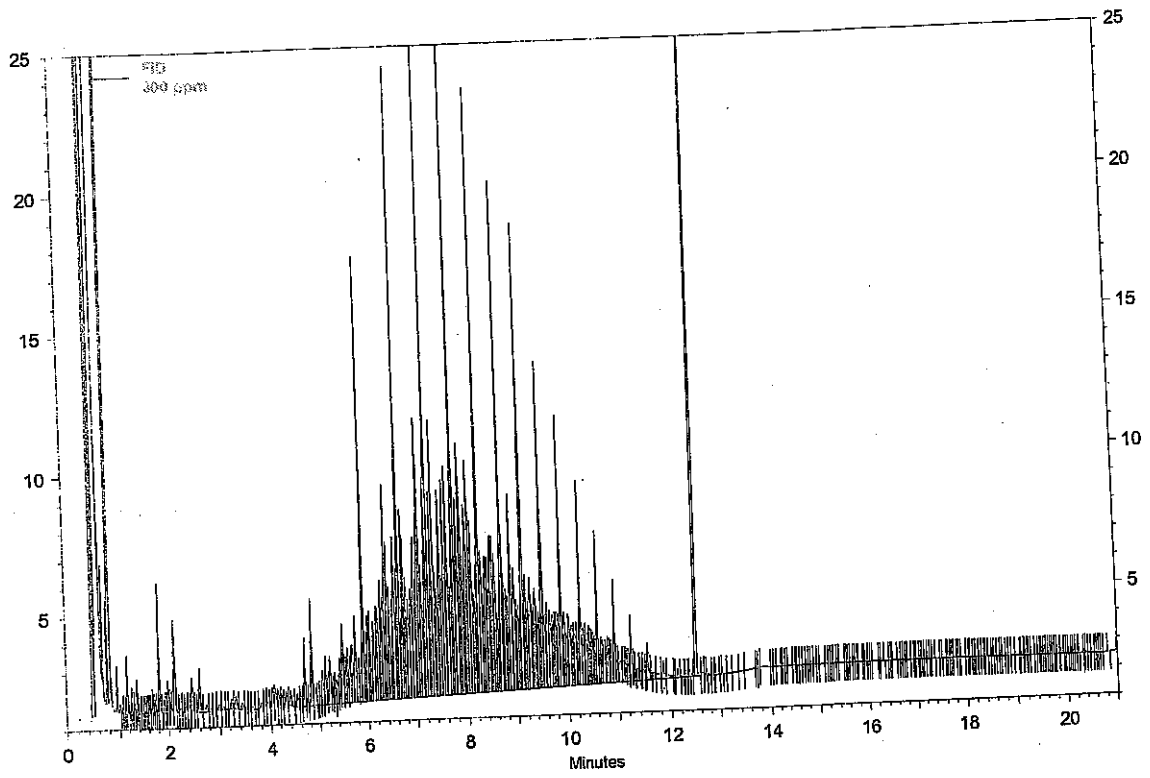
Name	Retention Time	Area	ug/ml
DNOP	12.48	51020	20.000 CAL
DRO		661154	200.000 CAL

Analyst BN

Reviewed By

Sample ID: **300 ppm** Data Description: SV109-1010

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\300 ppm07-23-14 12-19-03 PM.dat
Aquired: 7/23/2014 12:29:45 PM



FID Results

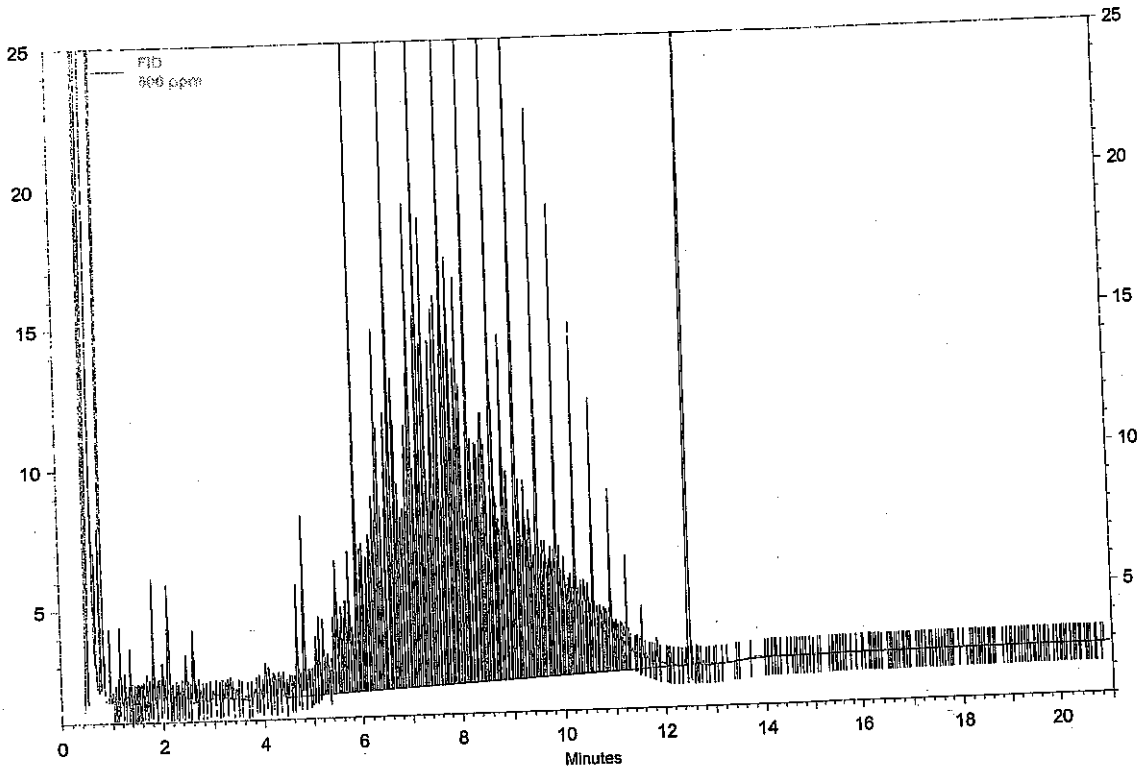
Name	Retention Time	Area	ug/ml
DNOP	12.49	80114	30.000 CAL
DRO		1031177	300.000 CAL

Analyst BN

Reviewed By

Sample ID: **500 ppm** Data Descritpion: **SV109-1517**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\500 ppm07-23-14 12-51-07 PM.dat
Aquired: 7/23/2014 1:01:34 PM



FID Results

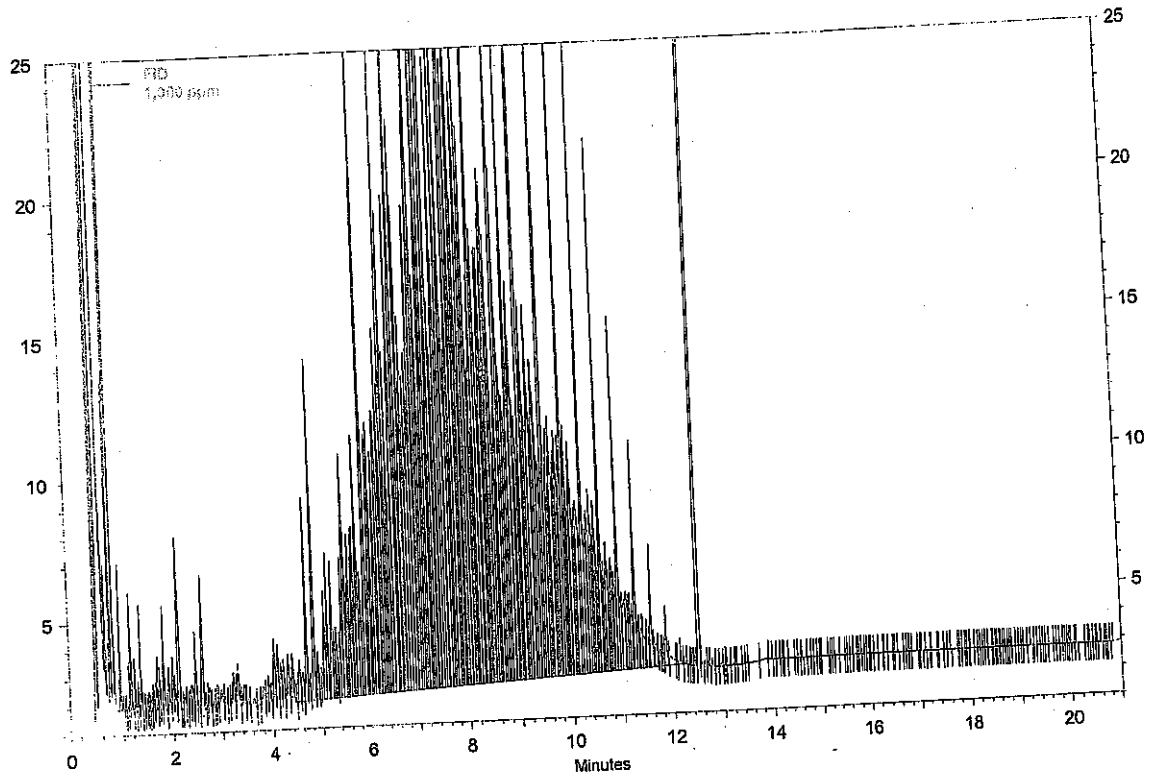
Name	Retention Time	Area	ug/ml
DNOP	12.49	132795	50.000 CAL
DRO		1771808	500.000 CAL

Analyst BN

Reviewed By

Sample ID: **1,000 ppm** Data Description: **SV**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\1,000 ppm07-23-14 1-22-57 PM.dat
Aquired: 7/23/2014 1:33:07 PM



FID Results

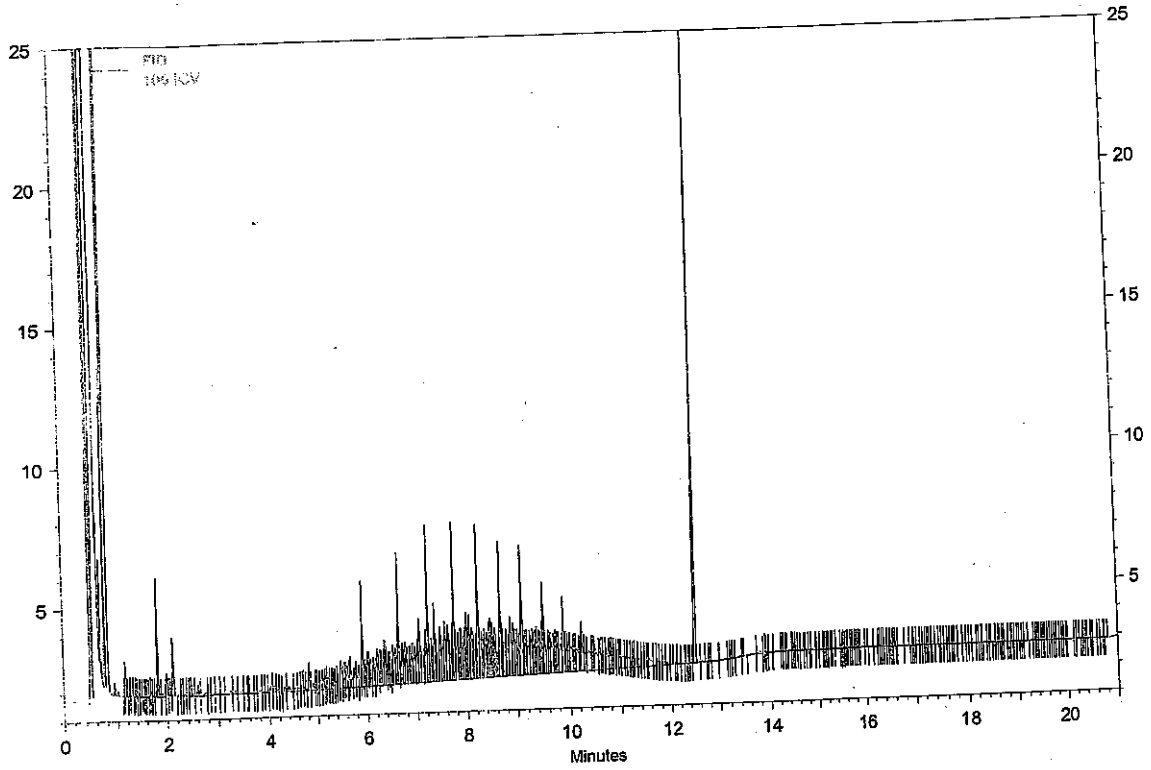
Name	Retention Time	Area	ug/ml
DNOP	12.49	263699	100.000 CAL
DRO		3299464	1000.000 CAL

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: 12
Sample ID: **100 ICV** Data Descritpion: **SV109-1519**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\100 ICV 07-23-14 1-54-20 PM.dat
Acquired: 7/23/2014 2:04:17 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	30115	11.456
DRO		324518	91.350
MRO		3308	0.000

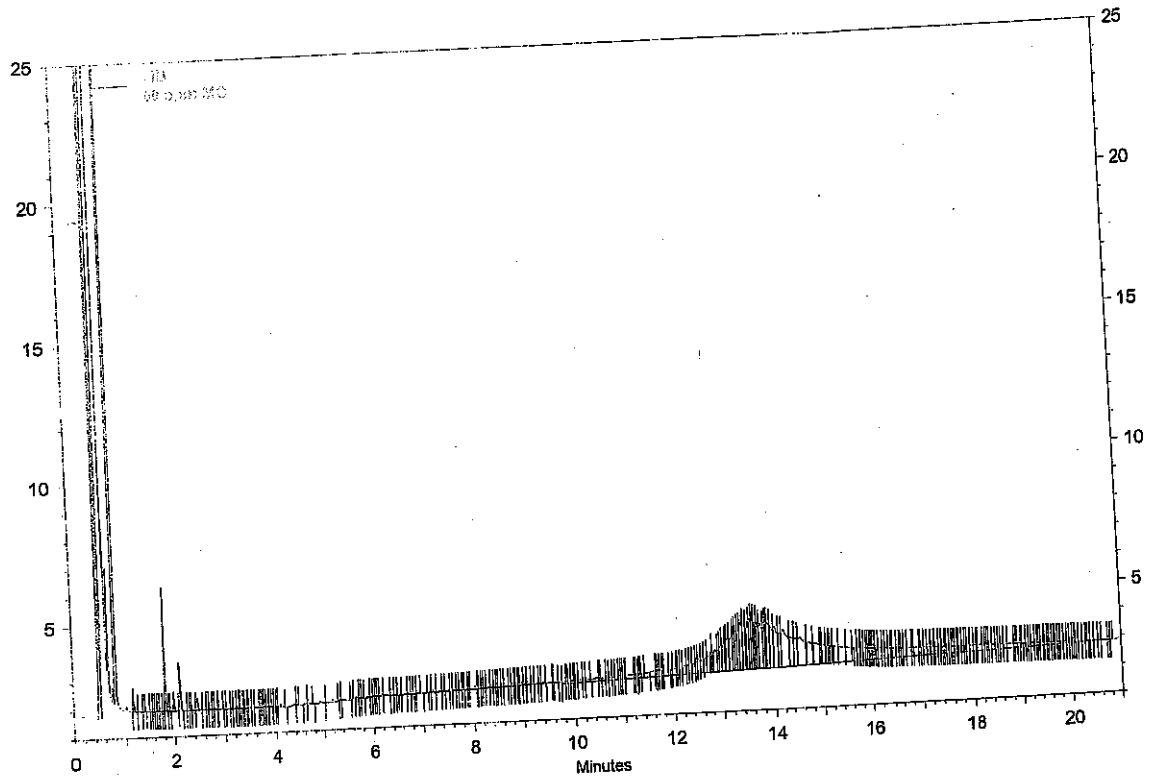
Analyst BN

Reviewed By

±20%

Sample ID: **50 ppm MO** Data Description: SV103-1020

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 ppm MO07-23-14 2-25-40 PM.dat
Acquired: 7/23/2014 2:35:13 PM



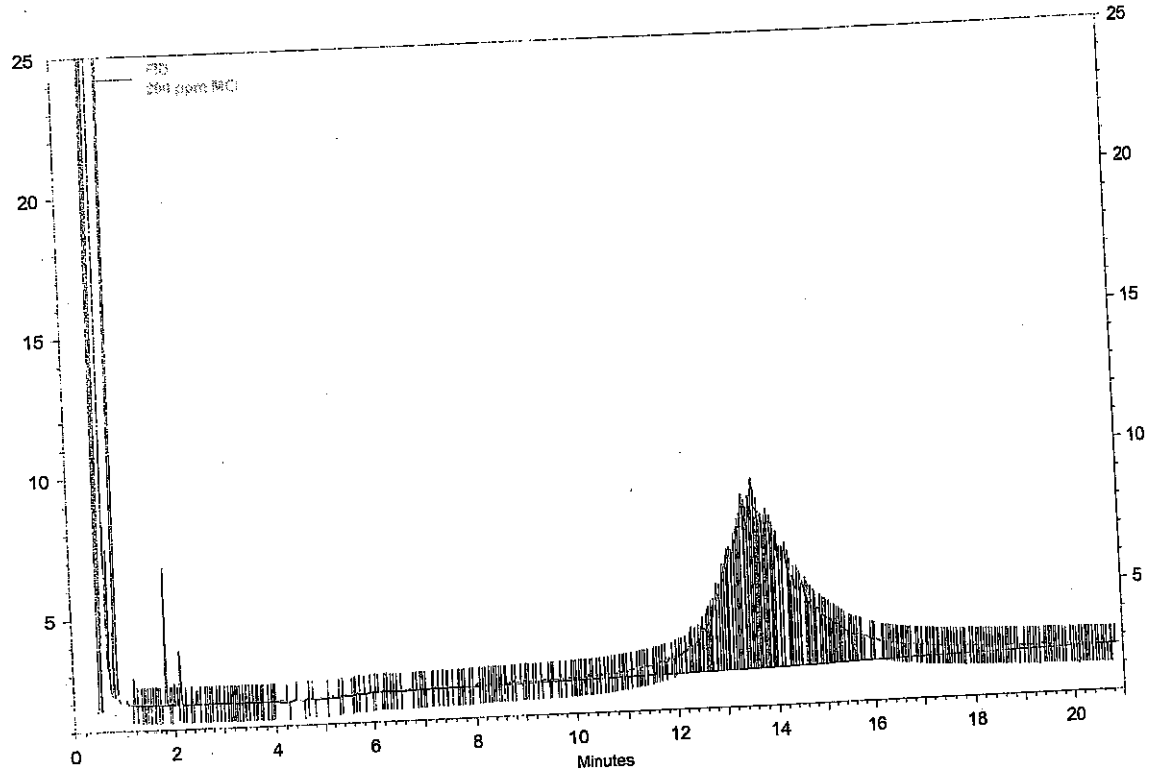
FID Results Name	Retention Time	Area	ug/ml
MRO		207529	50.000 CAL

Analyst BN

Reviewed By

ample ID: **200 ppm MO** Data Description:

lethod: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 ppm MO07-23-14 2-56-31 PM.dat
\quired: 7/23/2014 3:06:11 PM



FID Results **Name**	**Retention Time**	**Area**	**ug/ml**
MRO		528224	200.000 CAL

Analyst BN

Reviewed By

ample ID: **1,000 ppm MO** Data Description:

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ile: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 ppm MO 07-23-14 3-27-33 PM.dat
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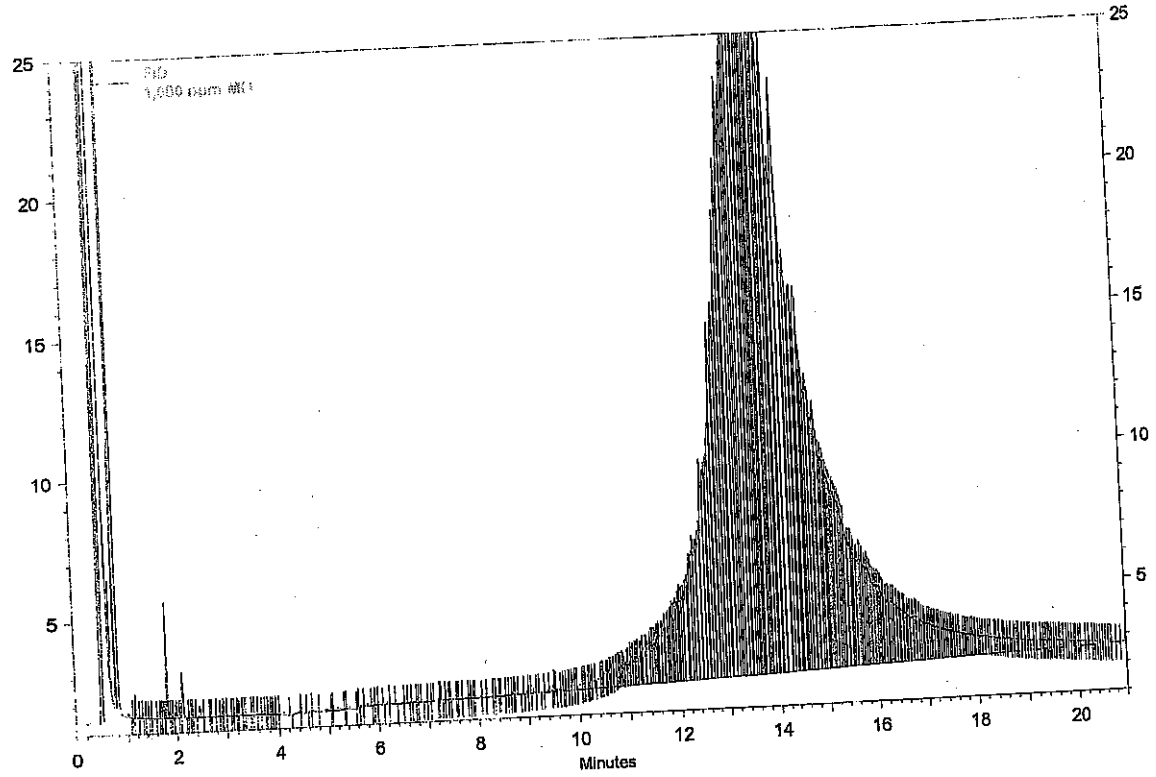


FID Results

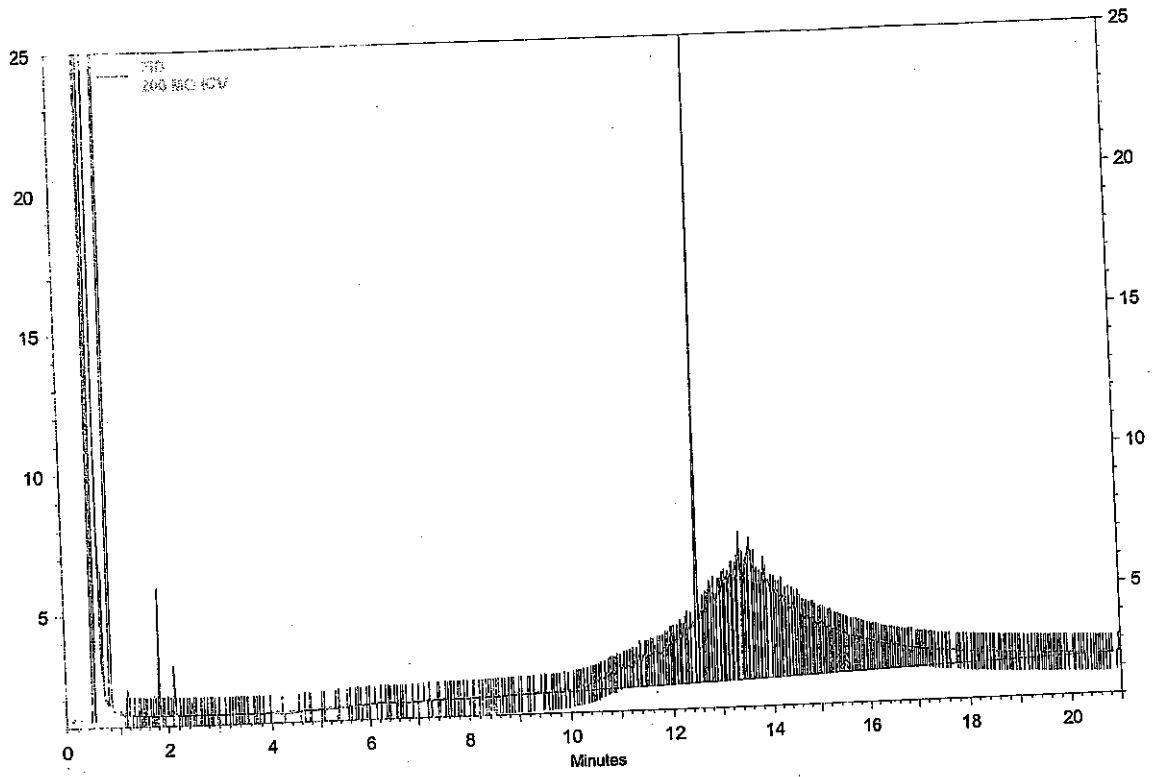
Name	Retention Time	Area	ug/ml
MRO		2530354	1000.000 CAL

Analyst BW

Reviewed By

Instument: **FID 2 (Offline)** Vial #: 10
Sample ID: **200 MO ICV** Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	35885	13.621
DRO		91522	26.686
MRO		538883	193.631

Analyst BN

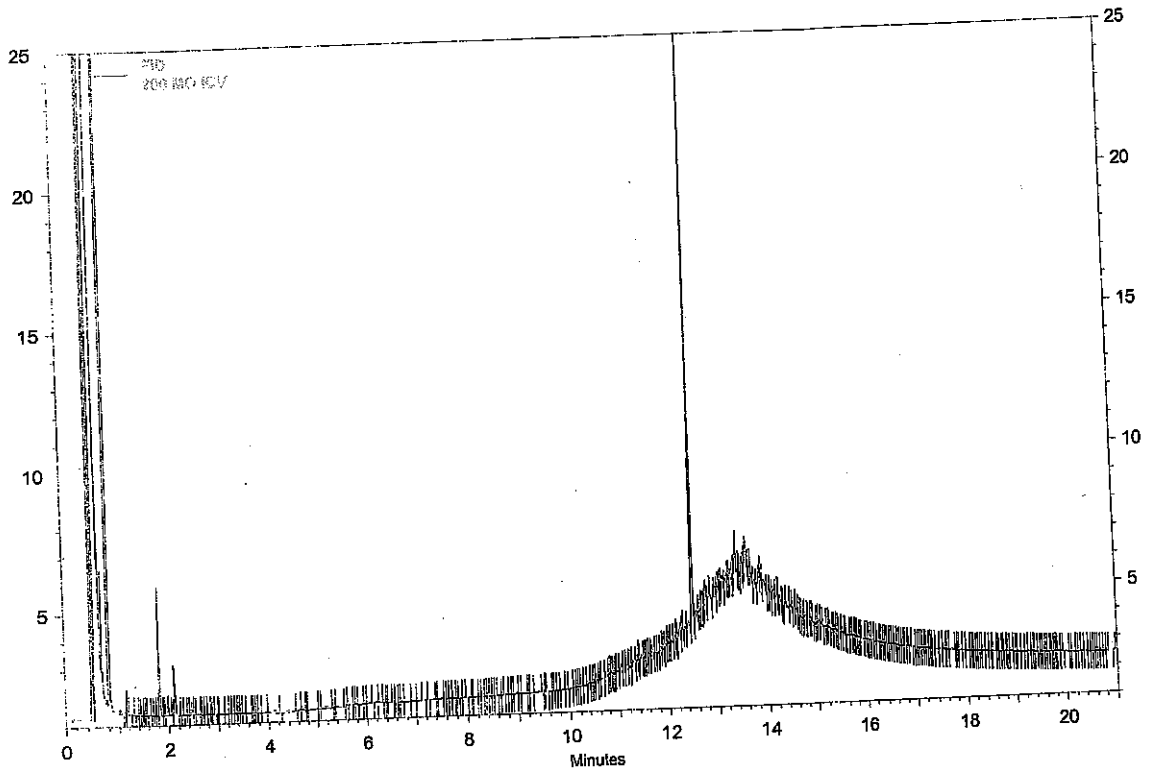
Reviewed By JE

13.621
- 10.268
3.353
+193.681
196.984
200 X100
= 98.492 % ✓
+20%

Instument: FID 2 (Online)
Sample ID: **200 MO ICV**

Data Descritpion: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\072314 CRV\200 MO ICV 07-23-14 3-59-09 PM.dat
Aquired: 7/23/2014 4:09:19 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	26950	10.268
DRO		10198	4.331
MRO		21952	0.000

Analyst _____

Reviewed By _____

SWB 8/1/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407D63**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-001
Client Sample ID: FFOR-CF-0038
Collection Date: 7/29/2014 8:55:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD DUE 08/04/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Toluene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Ethylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Methyl tert-butyl ether (MTBE)	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2,4-Trimethylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,3,5-Trimethylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2-Dichloroethane (EDC)	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2-Dibromoethane (EDB)	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Naphthalene	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Acetone	ND	3.2		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Bromobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Bromodichloromethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Bromoform	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Bromomethane	ND	0.63		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
2-Butanone	ND	2.1		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Carbon disulfide	ND	2.1		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Carbon tetrachloride	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Chlorobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Chloroethane	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Chloroform	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Chloromethane	ND	0.63		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
2-Chlorotoluene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
4-Chlorotoluene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
cis-1,2-DCE	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
cis-1,3-Dichloropropene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2-Dibromo-3-chloropropane	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Dibromochloromethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Dibromomethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Dichlorodifluoromethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1-Dichloroethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1-Dichloroethene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2-Dichloropropane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,3-Dichloropropane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
2,2-Dichloropropane	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1-Dichloropropene	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: MS/MSD DUE 08/04/2014

EPA METHOD 8260B: VOLATILES

Analyst: **KJH**

Hexachlorobutadiene	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
2-Hexanone	ND	2.1		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Isopropylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
4-Isopropyltoluene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
4-Methyl-2-pentanone	ND	2.1		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Methylene chloride	ND	0.63		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
n-Butylbenzene	ND	0.63		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
n-Propylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
sec-Butylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Styrene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
tert-Butylbenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1,1,2-Tetrachloroethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1,2,2-Tetrachloroethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Tetrachloroethene (PCE)	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
trans-1,2-DCE	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
trans-1,3-Dichloropropene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2,3-Trichlorobenzene	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1,1-Trichloroethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,1,2-Trichloroethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Trichloroethene (TCE)	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Trichlorofluoromethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
1,2,3-Trichloropropane	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Vinyl chloride	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Xylenes, Total	ND	0.42		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Bromochloromethane	ND	0.21		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Vinyl acetate	ND	2.1		mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Surr: Dibromofluoromethane	94.1	70-130		%REC	5	R20304	7/31/2014 1:28:12 PM
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	5	R20304	7/31/2014 1:28:12 PM
Surr: Toluene-d8	95.3	70-130		%REC	5	R20304	7/31/2014 1:28:12 PM
Surr: 4-Bromofluorobenzene	90.6	70-130		%REC	5	R20304	7/31/2014 1:28:12 PM

Comment: MS/MSD DUE 08/04/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **KJH**

Gasoline Range Organics (GRO)	4.3	21	J	mg/Kg-dry	5	R20304	7/31/2014 1:28:12 PM
Surr: BFB	103	61.2-137		%REC	5	R20304	7/31/2014 1:28:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-002
Client Sample ID: FFOR-CF-0039
Collection Date: 7/29/2014 9:04:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Toluene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Ethylbenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Methyl tert-butyl ether (MTBE)	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2,4-Trimethylbenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,3,5-Trimethylbenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2-Dichloroethane (EDC)	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2-Dibromoethane (EDB)	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Naphthalene	ND	0.089		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Acetone	ND	0.67		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Bromobenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Bromodichloromethane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Bromoform	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Bromomethane	ND	0.13		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
2-Butanone	ND	0.44		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Carbon disulfide	ND	0.44		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Carbon tetrachloride	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Chlorobenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Chloroethane	ND	0.089		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Chloroform	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Chloromethane	ND	0.13		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
2-Chlorotoluene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
4-Chlorotoluene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
cis-1,2-DCE	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
cis-1,3-Dichloropropene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2-Dibromo-3-chloropropane	ND	0.089		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Dibromochloromethane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Dibromomethane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2-Dichlorobenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,3-Dichlorobenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,4-Dichlorobenzene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Dichlorodifluoromethane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1-Dichloroethane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1-Dichloroethene	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2-Dichloropropane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,3-Dichloropropane	ND	0.044		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
2,2-Dichloropropane	ND	0.089		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1-Dichloropropene	ND	0.089		mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: DUE 08/04/2014

EPA METHOD 8260B: VOLATILES Analyst: **KJH**

Hexachlorobutadiene	ND	0.089	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
2-Hexanone	ND	0.44	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Isopropylbenzene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
4-Isopropyltoluene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
4-Methyl-2-pentanone	ND	0.44	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Methylene chloride	ND	0.13	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
n-Butylbenzene	ND	0.13	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
n-Propylbenzene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
sec-Butylbenzene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Styrene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
tert-Butylbenzene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1,1,2-Tetrachloroethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1,2,2-Tetrachloroethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Tetrachloroethene (PCE)	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
trans-1,2-DCE	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
trans-1,3-Dichloropropene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2,3-Trichlorobenzene	ND	0.089	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2,4-Trichlorobenzene	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1,1-Trichloroethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,1,2-Trichloroethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Trichloroethene (TCE)	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Trichlorofluoromethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
1,2,3-Trichloropropane	ND	0.089	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Vinyl chloride	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Xylenes, Total	ND	0.089	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Bromochloromethane	ND	0.044	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Vinyl acetate	ND	0.44	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Surr: Dibromofluoromethane	93.0	70-130	%REC	1	R20304	7/31/2014 2:24:33 PM
Surr: 1,2-Dichloroethane-d4	83.0	70-130	%REC	1	R20304	7/31/2014 2:24:33 PM
Surr: Toluene-d8	90.4	70-130	%REC	1	R20304	7/31/2014 2:24:33 PM
Surr: 4-Bromofluorobenzene	86.5	70-130	%REC	1	R20304	7/31/2014 2:24:33 PM

Comment: DUE 08/04/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **KJH**

Gasoline Range Organics (GRO)	ND	4.4	mg/Kg-dry	1	R20304	7/31/2014 2:24:33 PM
Surr: BFB	110	61.2-137	%REC	1	R20304	7/31/2014 2:24:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-003
Client Sample ID: FFOR-CF-0040
Collection Date: 7/29/2014 9:11:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Toluene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Ethylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Methyl tert-butyl ether (MTBE)	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2,4-Trimethylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,3,5-Trimethylbenzene	0.65	0.82	J	mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2-Dichloroethane (EDC)	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2-Dibromoethane (EDB)	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Naphthalene	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Acetone	ND	12		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Bromobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Bromodichloromethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Bromoform	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Bromomethane	ND	2.5		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
2-Butanone	ND	8.2		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Carbon disulfide	ND	8.2		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Carbon tetrachloride	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Chlorobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Chloroethane	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Chloroform	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Chloromethane	ND	2.5		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
2-Chlorotoluene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
4-Chlorotoluene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
cis-1,2-DCE	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
cis-1,3-Dichloropropene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2-Dibromo-3-chloropropane	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Dibromochloromethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Dibromomethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2-Dichlorobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,3-Dichlorobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,4-Dichlorobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Dichlorodifluoromethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1-Dichloroethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1-Dichloroethene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2-Dichloropropane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,3-Dichloropropane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
2,2-Dichloropropane	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1-Dichloropropene	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: DUE 08/04/2014

EPA METHOD 8260B: VOLATILES — Analyst: **KJH**

Hexachlorobutadiene	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
2-Hexanone	ND	8.2		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Isopropylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
4-Isopropyltoluene	0.47	0.82	J	mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
4-Methyl-2-pentanone	ND	8.2		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Methylene chloride	ND	2.5		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
n-Butylbenzene	ND	2.5		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
n-Propylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
sec-Butylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Styrene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
tert-Butylbenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1,1,2-Tetrachloroethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1,2,2-Tetrachloroethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Tetrachloroethene (PCE)	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
trans-1,2-DCE	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
trans-1,3-Dichloropropene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2,3-Trichlorobenzene	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2,4-Trichlorobenzene	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1,1-Trichloroethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,1,2-Trichloroethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Trichloroethene (TCE)	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Trichlorofluoromethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
1,2,3-Trichloropropane	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Vinyl chloride	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Xylenes, Total	ND	1.6		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Bromochloromethane	ND	0.82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Vinyl acetate	ND	8.2		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Surr: Dibromofluoromethane	100	70-130		%REC	20	R20253	7/30/2014 4:01:36 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	20	R20253	7/30/2014 4:01:36 PM
Surr: Toluene-d8	92.6	70-130		%REC	20	R20253	7/30/2014 4:01:36 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%REC	20	R20253	7/30/2014 4:01:36 PM

Comment: DUE 08/04/2014

EPA METHOD 8015D MOD: GASOLINE RANGE — Analyst: **KJH**

Gasoline Range Organics (GRO)	200	82		mg/Kg-dry	20	R20253	7/30/2014 4:01:36 PM
Surr: BFB	102	61.2-137		%REC	20	R20253	7/30/2014 4:01:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407D63**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-004
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Toluene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Naphthalene	ND	0.10		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Acetone	ND	0.75		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Bromoform	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Bromomethane	ND	0.15		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
2-Butanone	ND	0.50		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Chloroethane	ND	0.10		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Chloroform	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Chloromethane	ND	0.15		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20253	7/30/2014 4:58:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: DUE 08/04/2014

EPA METHOD 8260B: VOLATILES Analyst: **KJH**

Hexachlorobutadiene	ND	0.10	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
2-Hexanone	ND	0.50	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Isopropylbenzene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
4-Isopropyltoluene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
4-Methyl-2-pentanone	ND	0.50	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Methylene chloride	ND	0.15	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
n-Butylbenzene	ND	0.15	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
n-Propylbenzene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
sec-Butylbenzene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Styrene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
tert-Butylbenzene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Tetrachloroethene (PCE)	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
trans-1,2-DCE	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
trans-1,3-Dichloropropene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1,1-Trichloroethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,1,2-Trichloroethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Trichloroethene (TCE)	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Trichlorofluoromethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
1,2,3-Trichloropropane	ND	0.10	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Vinyl chloride	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Xylenes, Total	ND	0.10	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Bromochloromethane	ND	0.050	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Vinyl acetate	ND	0.50	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Surr: Dibromofluoromethane	92.8	70-130	%REC	1	R20253	7/30/2014 4:58:01 PM
Surr: 1,2-Dichloroethane-d4	87.9	70-130	%REC	1	R20253	7/30/2014 4:58:01 PM
Surr: Toluene-d8	93.2	70-130	%REC	1	R20253	7/30/2014 4:58:01 PM
Surr: 4-Bromofluorobenzene	78.4	70-130	%REC	1	R20253	7/30/2014 4:58:01 PM

Comment: DUE 08/04/2014

EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: **KJH**

Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	R20253	7/30/2014 4:58:01 PM
Surr: BFB	110	61.2-137	%REC	1	R20253	7/30/2014 4:58:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - Generic SampleList Sat Jul 05 15:29:07 2014

ampleList: C:\VarianWS\070514v.smp

reated: Sat Jul 05 14:08:22 2014
odified: Sat Jul 05 15:22:31 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes	All injections contain V-52-0464
2	b2	none
3	b3	none
4	b4	none
5	b5	none tune @~~8:44~~ 9:10
6		
7	2ng crv	below
	Notes	V-54-0433
8	5ng crv	below
	Notes	V-54-0433
9	10ng crv	below
	Notes	V-54-0433
10	25ng crv	below
	Notes	V-54-0433
11	50ng crv	below
	Notes	V-54-0433
12	100ng crv	below
	Notes	V-54-0433
13	227.27ng crv	below
	Notes	V-54-0433
14	500ng crv	below
	Notes	V-54-0433
15	b6	none
16	b7	none
17	100ng icv	below
	Notes	V-54-0434 @ 9:35
18	b8	none
19		

Loaded By: M 7.5.14
1st Review By: M 7.7.14
QA'd By: JWB 7/8/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070514v.rcl.

8260B/624
Calibration Summary

Instrument: Val **Date:** 7-5-14

Calibration Name: 070514v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☑	☐	☒	☐	UQL: 227.27 ng
Chloromethane	☑	☐	☐	☑	
Vinyl chloride	☑	☐	☐	☑	
Chloroethane	☑	☐	☒	☑	~~2pt missing RRF > 10%~~
Bromomethane	☑	☐	☐	☑	
Trichlorofluoromethane	☑	☐	☐	☑	
1,1-Dichloroethene	☑	☐	☐	☑	
Acetone	☑	☐	☐	☑	
Carbon disulfide	☑	☐	☐	☑	
Iodomethane	☑	☐	☐	☑	
Methyl tert-butyl ehter (MTBE)	☑	☐	☐	☑	
Isopropyl ether	☑	☐	☒	☐	UQL: 454.54 ng
tert-Butyl alcohol	☑	☐	☐	☑	
trans-1,2-DCE	☑	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☑	☐	☐	☑	
1,1-Dichloroethane	☑	☐	☐	☑	
Methylene Chloride	☑	☐	☐	☑	
Vinyl acetate	☑	☐	☒	☐	UQL: 454.54 ng
2,2-Dichloropropane	☑	☐	☐	☑	
2-Butanone	☑	☐	☐	☑	
1,1,1-Trichloroethane	☑	☐	☐	☑	
1,1-Dichloropropene	☑	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☑	☐	☐	☑	
Carbon Tetrachloride	☑	☐	☐	☑	
cis-1,2-DCE	☑	☐	☐	☑	
Benzene	☑	☐	☐	☑	
Chloroform	☑	☐	☐	☑	
Bromochloromethane	☑	☐	☐	☑	
Trichloroethene (TCE)	☑	☐	☐	☑	
Dibromofluoromethane	N/A	N/A	☐	☑	
1,2-Dichloroethane-d4	N/A	N/A	☐	☑	
1,2-Dichloroethane (EDC)	☑	☐	☐	☑	
1,2-Dichloropropane	☑	☐	☐	☑	
4-Methyl-2-pentanone	☑	☐	☐	☑	
Toluene-d8	N/A	N/A	☐	☑	
Toluene	☑	☐	☐	☑	
2-Choroethyl vinyl ether	☑	☐	☐	☑	
cis-1,3-dichloropropene	☑	☐	☐	☑	
Bromodichloromethane	☑	☐	☐	☑	
Dibromomethane	☑	☐	☐	☑	
2-Hexanone	☑	☐	☐	☑	
Tetrachloroethene (PCE)	☑	☐	☐	☑	
1,3-Dichloropropane	☑	☐	☐	☑	
trans-1,3-dichloropropene	☑	☐	☐	☑	
Ethylbenzene	☑	☐	☐	☑	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: [signature] and [signature]

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: PL 7-8-14

QA: [illegible] NB 7/8/14

Additional Comments:

2ng point for chloroethane is applied to curve. The re-calculation of 2ng point cov however missed it. PQL = 10ng so this is not a compound searched for at such low levels.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ata\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
b1 7-5-201	72969	7.99	98481	14.30	51810	17.91						
b2 7-5-201	61982	7.99	90085	14.30	48616	17.90						
b3 7-5-201	63870	8.00	91848	14.30	50127	17.91						
b4 7-5-201	62929	8.00	88937	14.30	48869	17.91						
b5 7-5-201	62961	8.00	89757	14.30	50229	17.91						
2ng crv 7-	63768	8.00	92372	14.31	50870	17.91						
5ng crv 7-	64769	8.00	91068	14.30	52637	17.91						
10ng crv 7	66192	7.99	96603	14.30	53057	17.91						
25ng crv 7	63322	8.00	96491	14.31	55344	17.91						
50ng crv 7	64429	8.00	93524	14.31	53499	17.91						
227.27ng c	69958	7.99	101108	14.30	57411	17.90						
500ng crv	70266	7.98	101209	14.30	56767	17.90						
b6 7-5-201	68040	7.98	92412	14.30	53675	17.90						
b7 7-5-201	65873	7.99	97388	14.30	51659	17.91						
100ng icv	69236	7.99	99243	14.30	54295	17.90						
b8 7-5-201	65844	7.99	94286	14.30	51027	17.91						

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Analyst: RAA

Internal Standard And RT Summary

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b5 7-5-2014.sms Injection Date: 7/5/2014

Instrument ID: VAL Injection Time: 16:18

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.1	
75	30-60% of m/z 95	34.6	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.2 (0.3)	174
174	>50% of m/z 95	59.2	
175	5-9% of m/z 174	4.6 (7.7)	174
176	>95% but <101% of m/z 174	59.8 (101.0)	174
177	5-9% of m/z 176	3.6 (6.1)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b5 7-5-201	b5	h:\val\data\2014v\0714v\070514v 8260 crv\b5 7-5-2014.SMS	7/5/2014 16:18
42ng crv 7-	2ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\2ng crv 7-5-2014.SMS	7/5/2014 16:49
55ng crv 7-	5ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\5ng crv 7-5-2014.SMS	7/5/2014 17:20
610ng crv 7	10ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\10ng crv 7-5-2014.SMS	7/5/2014 17:52
725ng crv 7	25ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\25ng crv 7-5-2014.SMS	7/5/2014 18:20
850ng crv 7	50ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\50ng crv 7-5-2014.SMS	7/5/2014 18:48
9100ng crv	100ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS	7/5/2014 19:16
10227.27ng c	227.27ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\227.27ng crv 7-5-2014.SMS	7/5/2014 19:44
11 500ng crv	500ng crv	h:\val\data\2014v\0714v\070514v 8260 crv\500ng crv 7-5-2014.SMS	7/5/2014 20:12
12 b6 7-5-201	b6	h:\val\data\2014v\0714v\070514v 8260 crv\b6 7-5-2014.SMS	7/5/2014 20:39
13 b7 7-5-201	b7	h:\val\data\2014v\0714v\070514v 8260 crv\b7 7-5-2014.SMS	7/5/2014 21:07
14 100ng icv	100ng icv	h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014.SMS	7/5/2014 21:35

Analyst: RAA

PT 7.7.14 JB 7/8/14

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 7/5/2014 7/5/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:12 20:12

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/5/2014 20:12	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	2.292	2.095	2.192	2.233	2.053	2.105	1.854		0.9966	2.118	6.8	PASS	PASS
Chloromethane	0.510	0.450	0.469	0.532	0.639	0.653	0.696	0.653	0.9990	0.575	16.6	PASS	PASS
Vinyl chloride	1.337	1.234	1.245	1.657	1.738	1.729	1.816	1.676	0.9986	1.554	15.4	PASS	PASS
Chloroethane	0.197	0.206	0.179	0.229	0.243	0.255	0.268	0.249	0.9988	0.228	13.7	PASS	PASS
Bromomethane	0.737	0.753	0.788	0.982	1.076	1.024	1.081	1.113	0.9997	0.944	16.8	PASS	PASS
Trichlorofluoromethane	1.016	0.889	0.899	0.923	0.866	0.881	0.842	0.812	0.9996	0.891	6.9	PASS	PASS
1,1-Dichloroethene	0.845	0.910	1.055	1.264	1.266	1.276	1.216	1.175	0.9995	1.126	15.1	PASS	PASS
Acetone	1.768	1.032	0.798	0.674	0.605	0.620	0.611	0.601	0.9999	0.839	48.1	PASS	PASS
Carbon disulfide	1.261	1.169	1.154	1.146	1.097	1.071	1.065	0.999	0.9992	1.120	7.1	PASS	PASS
Iodomethane	0.252	0.376	0.501	0.703	0.771	0.853	0.944	0.907	0.9995	0.663	38.9	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.574	1.517	1.479	1.562	1.468	1.406	1.377	1.345	0.9998	1.466	5.8	PASS	PASS

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Analyst: RAA

RT 7-7-14

WB 7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	1.183	1.261	1.534	1.651	1.610	1.587	1.531		0.9996	1.480	12.3	PASS	PASS
tert-Butyl alcohol	0.273	0.249	0.247	0.335	0.338	0.399	0.379	0.342	0.9968	0.320	18.1	PASS	PASS
trans-1,2-DCE	1.021	1.179	1.226	1.566	1.496	1.482	1.441	1.409	0.9998	1.353	14.0	PASS	PASS
tert-Butyl ethyl ether	2.397	2.920	3.112	3.364	3.141	3.086	2.914	2.672	0.9980	2.951	10.2	PASS	PASS
1,1-Dichloroethane	0.998	0.943	1.066	1.501	1.521	1.571	1.589	1.500	0.9992	1.336	21.0	PASS	PASS
Methylene Chloride	3.836	2.304	1.887	1.914	1.650	1.587	1.604	1.469	0.9986	2.031	38.2	PASS	PASS
Vinyl Acetate	1.181	1.513	1.662	0.875	2.176	1.849	1.869		0.9944	1.589	27.9	PASS	PASS
2,2-Dichloropropane	1.042	0.970	0.929	0.925	0.868	0.865	0.850	0.806	0.9994	0.907	8.3	PASS	PASS
2-Butanone	0.628	0.689	0.484	0.573	0.633	0.792	0.859	0.839	0.9992	0.687	19.4	PASS	PASS
1,1,1-Trichloroethane	1.569	1.555	1.576	1.662	1.552	1.545	1.536	1.453	0.9994	1.556	3.7	PASS	PASS
tert-Amyl methyl ether	1.634	1.565	1.568	1.660	1.539	1.519	1.506	1.419	0.9993	1.551	4.9	PASS	PASS
1,1-Dichloropropene	0.760	0.779	0.737	0.807	0.762	0.766	0.687	0.632	0.9975	0.741	7.6	PASS	PASS
Carbon Tetrachloride	3.498	3.036	3.335	3.518	3.355	3.247	3.269	3.076	0.9992	3.292	5.3	PASS	PASS
cis-1,2-DCE	1.755	1.706	1.839	2.060	1.957	1.965	1.886	1.853	0.9998	1.878	6.2	PASS	PASS
Benzene	2.113	1.847	1.859	1.974	1.868	1.824	1.824	1.712	0.9992	1.878	6.3	PASS	PASS
Chloroform	1.197	1.140	1.207	1.295	1.260	1.223	1.214	1.162	0.9996	1.212	4.1	PASS	PASS
Bromochloromethane	0.590	0.443	0.423	0.478	0.448	0.447	0.447	0.412	0.9986	0.461	12.1	PASS	PASS
Trichloroethene (TCE)	1.353	1.191	1.148	1.258	1.144	1.221	1.187	1.144	0.9996	1.206	6.0	PASS	PASS
Dibromofluoromethane	1.626	1.630	1.622	1.743	1.696	1.780	1.703	1.658	0.9995	1.682	3.5	PASS	PASS
1,2-Dichloroethane-d4	4.378	4.431	4.389	4.985	5.142	5.226	5.199	5.155	0.9998	4.863	8.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.225	1.140	1.438	1.715	1.718	1.713	1.730	1.624	0.9991	1.538	15.6	PASS	PASS
1,2-Dichloropropane	1.309	1.475	1.612	2.044	2.011	1.944	1.945	1.830	0.9991	1.771	15.4	PASS	PASS
4-Methyl-2-pentanone	1.628	1.785	1.980	2.411	2.273	2.328	2.308	2.051	0.9968	2.095	13.5	PASS	PASS
Toluene-d8	1.780	1.898	1.869	1.882	1.974	1.913	1.988	1.963	0.9999	1.909	3.6	PASS	PASS
Toluene	3.032	2.899	2.721	2.644	2.683	2.569	2.617	2.476	0.9994	2.705	6.7	PASS	PASS
2-Chloroethyl vinyl ether	0.529	0.708	0.857	1.199	1.180	1.181	1.215	1.130	0.9988	1.000	26.6	PASS	PASS
Tetrachloroethene (PCE)	1.428	1.325	1.360	1.369	1.324	1.242	1.217	1.147	0.9992	1.302	7.1	PASS	PASS
cis-1,3-dichloropropene	2.385	2.179	2.103	2.140	2.069	2.040	2.109	2.097	1.0000	2.140	5.0	PASS	PASS
2-Hexanone	0.752	1.170	1.105	1.177	1.119	1.060	1.097	1.029	0.9992	1.064	12.7	PASS	PASS
Bromodichloromethane	2.385	2.367	2.417	2.560	2.467	2.358	2.501	2.448	0.9998	2.438	2.9	PASS	PASS
Dibromomethane	1.211	1.197	1.205	1.241	1.186	1.151	1.196	1.121	0.9992	1.188	3.1	PASS	PASS
1,3-Dichloropropane	1.644	1.628	1.591	1.578	1.539	1.472	1.556	1.458	0.9992	1.558	4.3	PASS	PASS
trans-1,3-dichloropropene	0.892	0.901	0.809	0.887	0.859	0.796	0.813	0.793	0.9998	0.844	5.4	PASS	PASS

100ng crv 7-5-2014.SMS

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Analyst: RAA

RA 7-7-14

7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	3.286	3.143	2.992	3.065	2.962	2.855	2.944	2.784	0.9994	3.004	5.3	PASS	PASS
mp-Xylenes	2.928	2.885	2.734	2.838	2.755	2.663	2.765	2.588	0.9992	2.770	4.1	PASS	PASS
1,1,2-Trichloroethane	1.535	1.604	1.667	1.816	1.746	1.747	1.801	1.755	0.9999	1.709	5.8	PASS	PASS
Chlorobenzene	1.372	1.401	1.269	1.340	1.316	1.253	1.282	1.205	0.9992	1.305	5.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.551	1.494	1.495	1.533	1.515	1.436	1.491	1.459	0.9999	1.497	2.5	PASS	PASS
o-Xylene	2.729	2.765	2.724	2.767	2.760	2.582	2.640	2.583	0.9999	2.694	3.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.474	2.261	2.320	2.333	2.318	2.167	2.254	2.192	0.9998	2.290	4.2	PASS	PASS
Dibromochloromethane	1.242	1.385	1.343	1.380	1.342	1.310	1.300	1.236	0.9995	1.317	4.3	PASS	PASS
Isopropylbenzene	2.750	2.691	2.674	2.650	2.641	2.529	2.521	2.493	1.0000	2.619	3.5	PASS	PASS
Styrene	1.342	1.300	1.213	1.305	1.259	1.259	1.244	1.219	0.9999	1.268	3.5	PASS	PASS
n-Propylbenzene	6.049	6.041	6.151	6.170	6.101	6.146	5.934	5.769	0.9997	6.045	2.2	PASS	PASS
1,3,5-Trimethylbenzene	4.677	4.588	4.550	4.490	4.527	4.374	4.265	4.143	0.9998	4.452	4.0	PASS	PASS
tert-Butylbenzene	5.335	5.025	4.966	4.858	4.937	4.683	4.664	4.692	1.0000	4.895	4.6	PASS	PASS
2-Chlorotoluene	1.622	1.530	1.577	1.515	1.468	1.500	1.502	1.414	0.9993	1.516	4.2	PASS	PASS
4-Bromofluorobenzene	1.948	1.960	1.971	2.048	2.054	2.088	2.026	1.989	0.9998	2.010	2.5	PASS	PASS
sec-Butylbenzene	3.246	3.176	2.994	3.241	3.175	3.228	3.597	3.940	0.9978	3.324	9.0	PASS	PASS
4-Chlorotoluene	1.682	1.473	1.513	1.584	1.530	1.573	1.563	1.684	0.9990	1.575	4.8	PASS	PASS
Bromobenzene	1.521	1.404	1.390	1.450	1.402	1.392	1.366	1.263	0.9986	1.399	5.2	PASS	PASS
1,2,4-Trimethylbenzene	4.864	4.620	4.634	4.721	4.630	4.638	4.623	4.414	0.9996	4.643	2.7	PASS	PASS
4-Isopropyltoluene	4.718	4.792	4.676	4.806	4.814	4.756	4.692	4.766	0.9999	4.752	1.1	PASS	PASS
Bromoform	1.703	1.778	1.791	1.752	1.783	1.794	1.851	1.871	0.9999	1.790	2.9	PASS	PASS
1,2,3-Trichloropropane	1.585	1.475	1.508	1.483	1.542	1.428	1.473	1.400	0.9995	1.487	4.0	PASS	PASS
n-Butylbenzene	4.115	4.508	4.530	4.555	4.800	4.709	4.588	4.555	0.9999	4.545	4.4	PASS	PASS
1,1,2,2-Tetrachloroethane	1.831	1.735	1.997	1.916	2.011	1.948	1.977	2.031	0.9998	1.931	5.2	PASS	PASS
1,3-Dichlorobenzene	2.252	2.090	2.144	2.130	2.067	2.056	2.048	2.026	1.0000	2.101	3.5	PASS	PASS
1,4-Dichlorobenzene	2.230	2.015	2.020	2.036	2.041	1.997	2.005	1.994	1.0000	2.042	3.8	PASS	PASS
1,2-Dichlorobenzene	2.254	1.991	2.007	2.069	1.997	1.970	1.974	1.903	0.9997	2.021	5.2	PASS	PASS
Hexachlorobutadiene	5.216	4.290	4.681	4.537	4.691	4.654	4.616	4.512	0.9999	4.650	5.7	PASS	PASS
1,2-Dibromo-3-chloropropane	1.009	0.917	0.947	0.925	0.902	0.918	0.900	0.878	0.9998	0.925	4.3	PASS	PASS
1,2,4-Trichlorobenzene	1.545	1.520	1.580	1.563	1.620	1.569	1.555	1.510	0.9998	1.558	2.2	PASS	PASS
1,2,3-Trichlorobenzene	1.674	1.614	1.647	1.690	1.727	1.640	1.621	1.537	0.9993	1.644	3.5	PASS	PASS
Naphthalene	3.253	3.065	3.153	3.109	3.185	3.263	3.163	3.327	0.9995	3.190	2.7	PASS	PASS
2-Methylnaphthalene	2.456	2.631	2.635	2.610	2.684	2.623	2.542	2.436	0.9995	2.577	3.5	PASS	PASS

100ng crv 7-5-2014.SMS

7/7/2014 9:32

Analyst: RAA

RT 7.7.14
WB 7/8/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	2.566	2.541	2.507	2.486	2.477	2.473	2.379	2.330	0.9998	2.470	3.2	PASS	PASS
									Average %RSD		8.8		

JDB 7/8/14

RT 7-7-14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1;1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

RT 7-7-14

✓ NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

7-7-14

7/8/14

Analyst: RAA

Calibration Curves Report

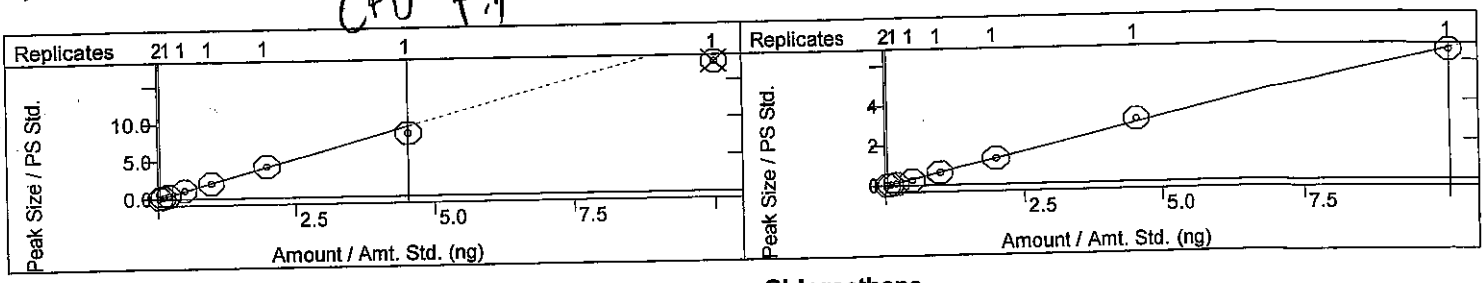
pt 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 6.771%, Coeff. Det.(r2): 0.996587
y = +2.0581x +0.0095

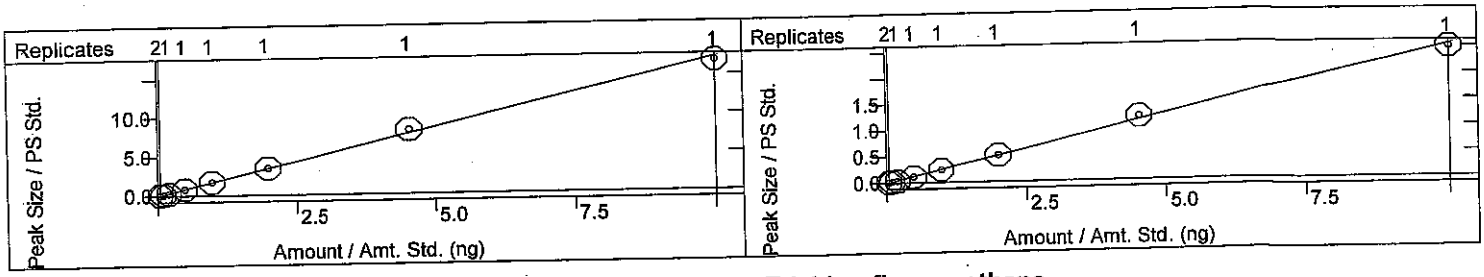
CPD Fit

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.61%, Coeff. Det.(r2): 0.998989
y = +0.6630x -0.0161



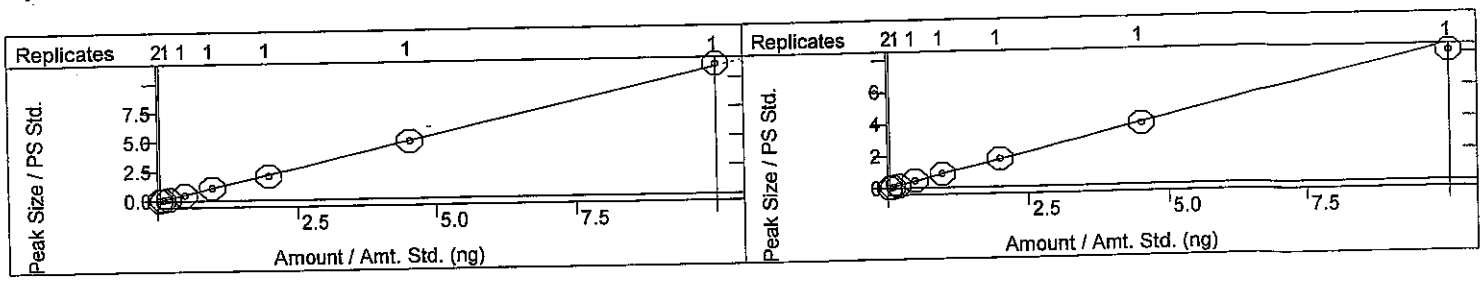
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.45%, Coeff. Det.(r2): 0.998574
y = +1.7248x -0.0312

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.70%, Coeff. Det.(r2): 0.998784
y = +0.2548x -0.0048



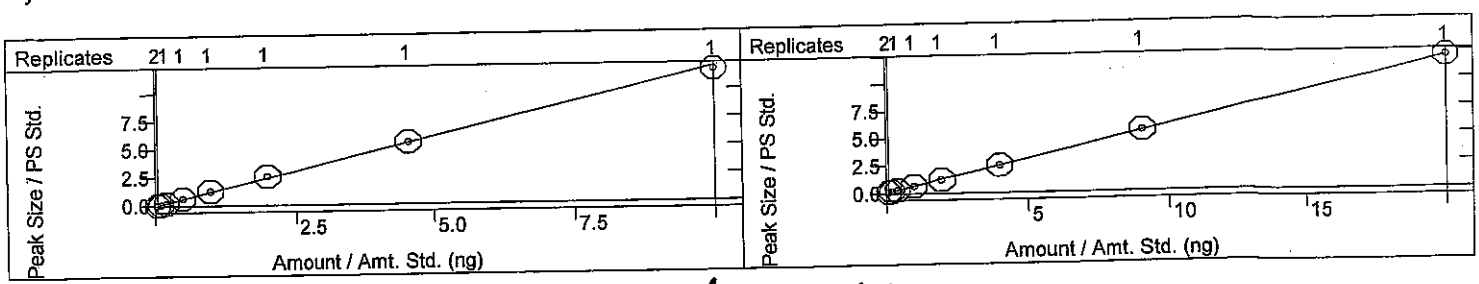
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.81%, Coeff. Det.(r2): 0.999731
y = +1.0957x -0.0277

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 6.853%, Coeff. Det.(r2): 0.999583
y = +0.8575x +0.0061



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.10%, Coeff. Det.(r2): 0.999485
y = +1.2061x -0.0147

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 48.13%, Coeff. Det.(r2): 0.999943
y = +0.5952x +0.0889



JDB 8/7/8/14

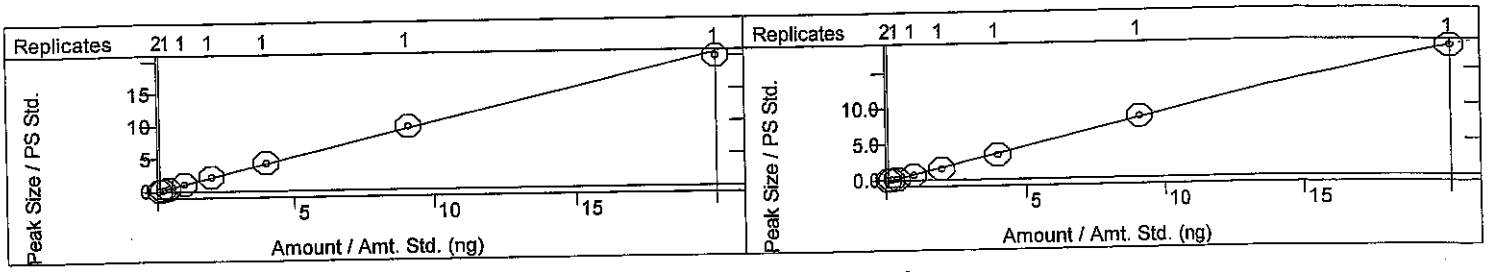
Calibration Curves Report

RA 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX
Resp. Fact. RSD: 7.131%, Coeff. Det.(r2): 0.999176
y = +1.0287x +0.0335

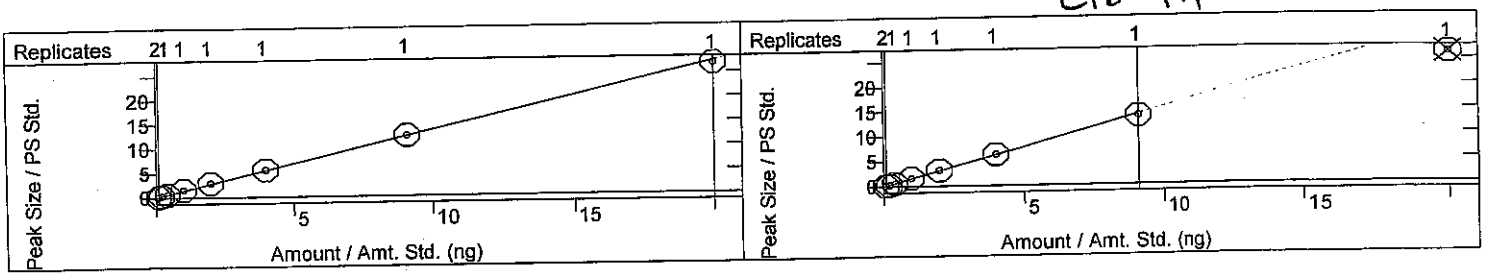
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 38.88%, Coeff. Det.(r2): 0.999486
y = -0.0023x2 +0.9662x -0.2083



Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.752%, Coeff. Det.(r2): 0.999833
y = +1.3674x +0.0360

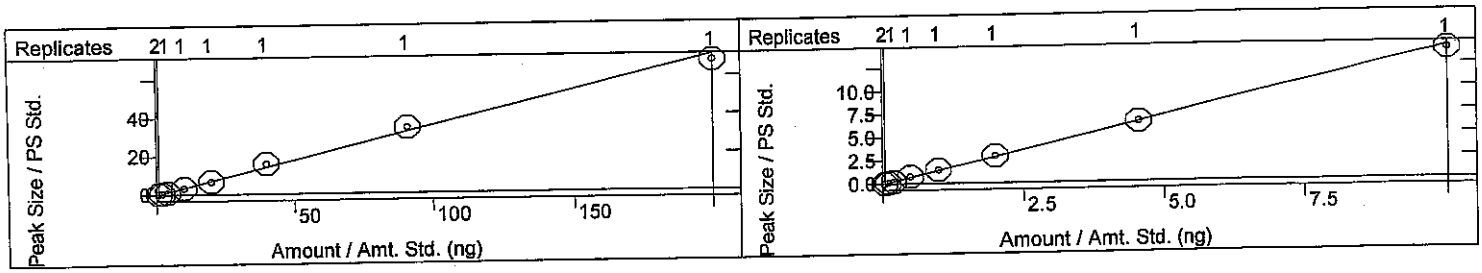
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.31%, Coeff. Det.(r2): 0.999564
y = +1.5679x -0.0283

CPD 7-7



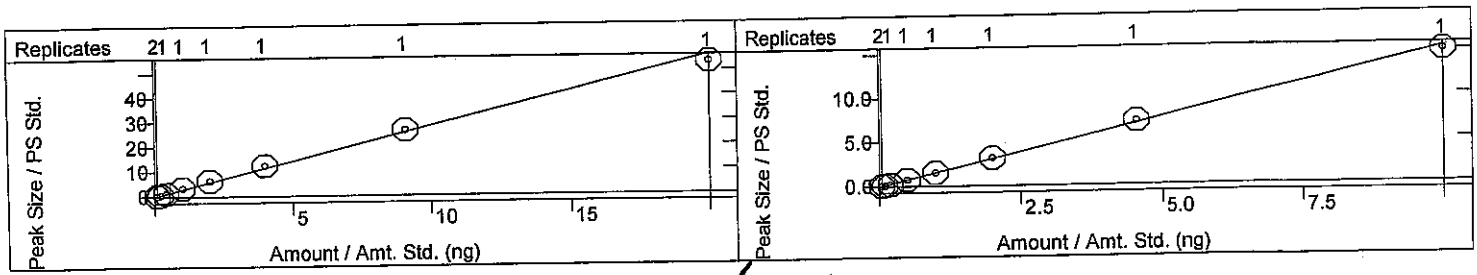
tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.09%, Coeff. Det.(r2): 0.996828
y = +0.3582x -0.1388

trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.97%, Coeff. Det.(r2): 0.999762
y = +1.4368x -0.0154



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.23%, Coeff. Det.(r2): 0.997968
y = +2.8164x +0.0491

1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 20.97%, Coeff. Det.(r2): 0.999182
y = +1.5382x -0.0369



SDB 7/8/14

Calibration Curves Report

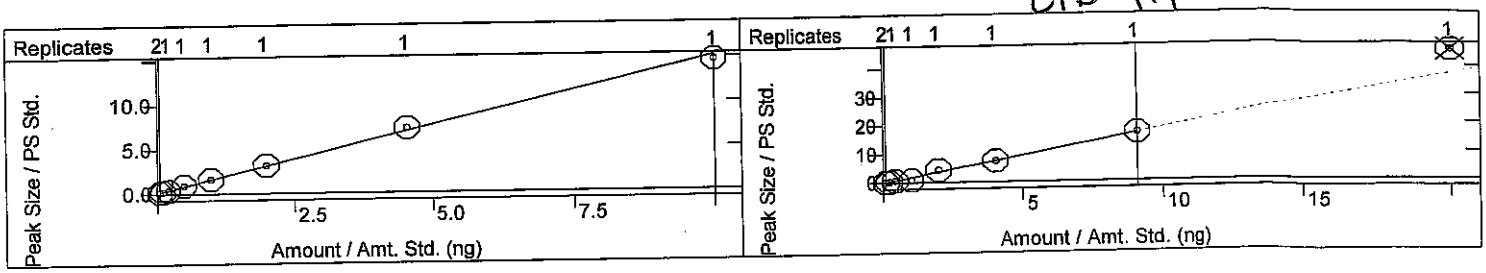
RT 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 38.16%, Coeff. Det.(r2): 0.998614
y = +1.5099x +0.0952

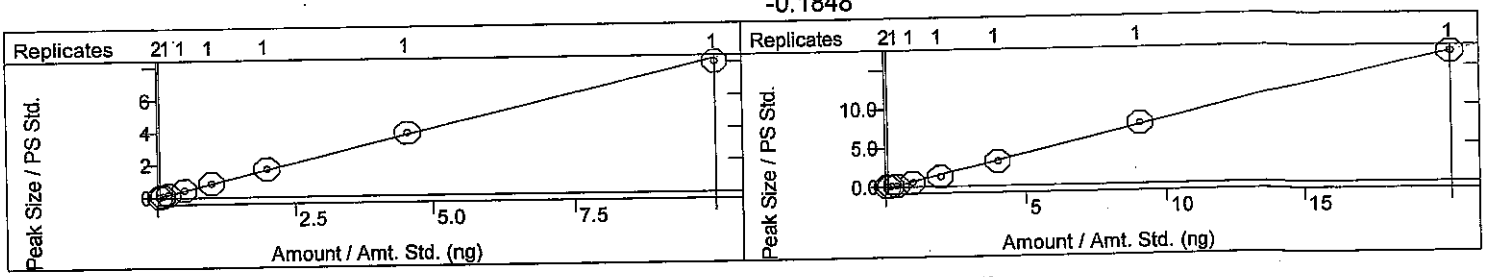
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.88%, Coeff. Det.(r2): 0.994379
y = +1.8662x -0.0887

CPD f.t



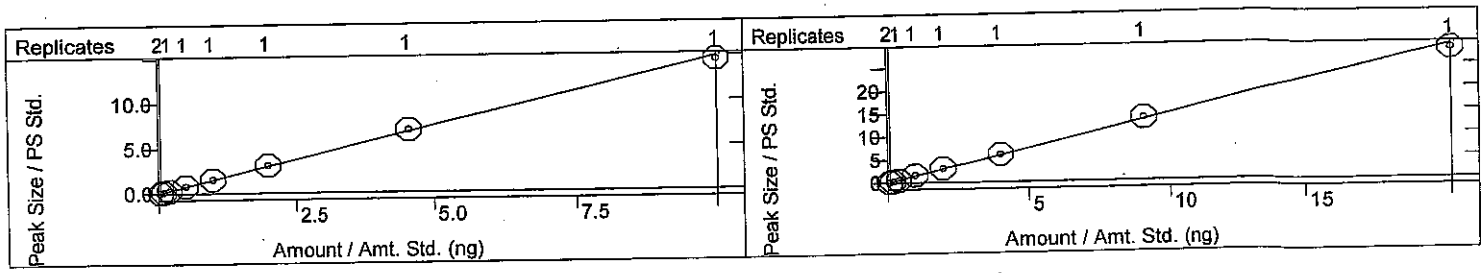
2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.292%, Coeff. Det.(r2): 0.999418
y = +0.8266x +0.0147

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 19.39%, Coeff. Det.(r2): 0.999230
y = -9.1835e-4x2 +0.8680x
-0.1848



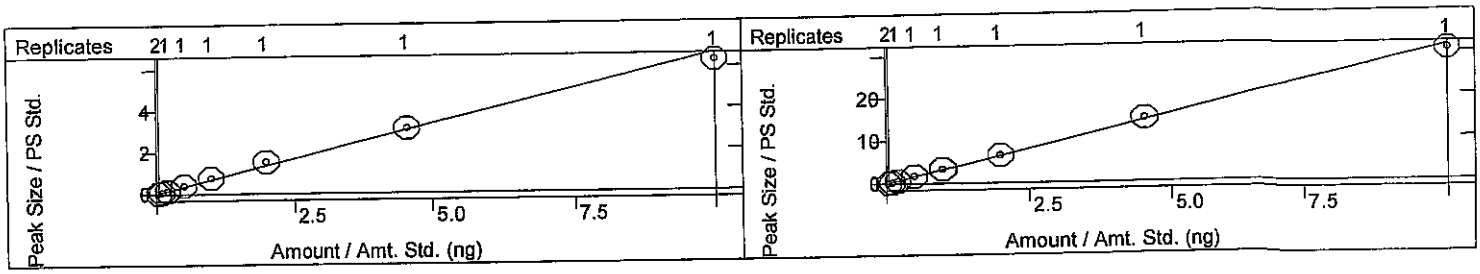
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.673%, Coeff. Det.(r2): 0.999353
y = +1.4916x +0.0117

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.872%, Coeff. Det.(r2): 0.999253
y = +1.4597x +0.0334



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.562%, Coeff. Det.(r2): 0.997501
y = +0.6685x +0.0133

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.316%, Coeff. Det.(r2): 0.999236
y = +3.1627x +0.0235



JNB 7/8/14

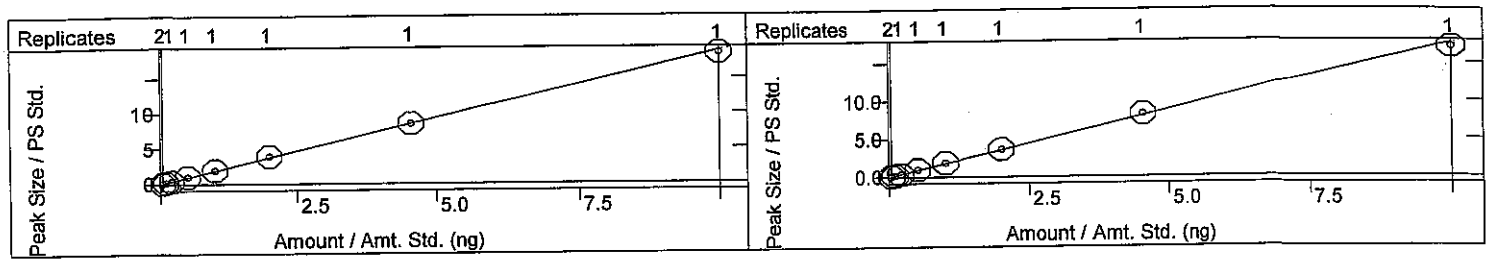
Calibration Curves Report

RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

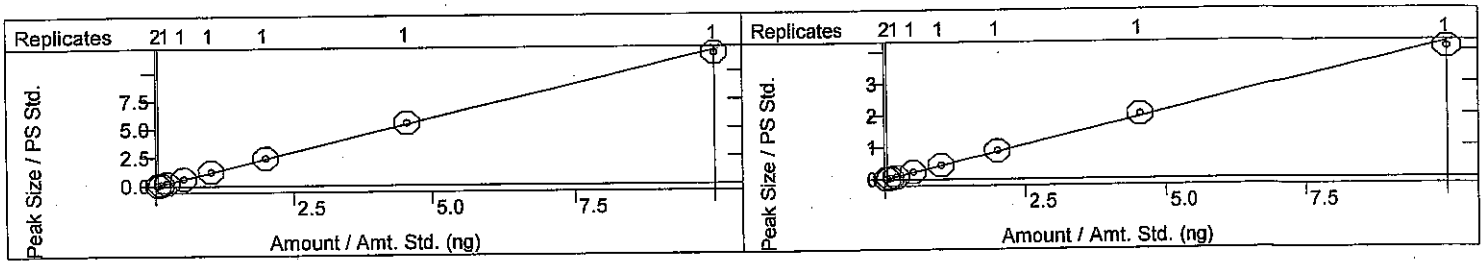
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.166%, Coeff. Det.(r2): 0.999811
y = +1.8842x -0.0012

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.334%, Coeff. Det.(r2): 0.999184
y = +1.7615x +0.0212



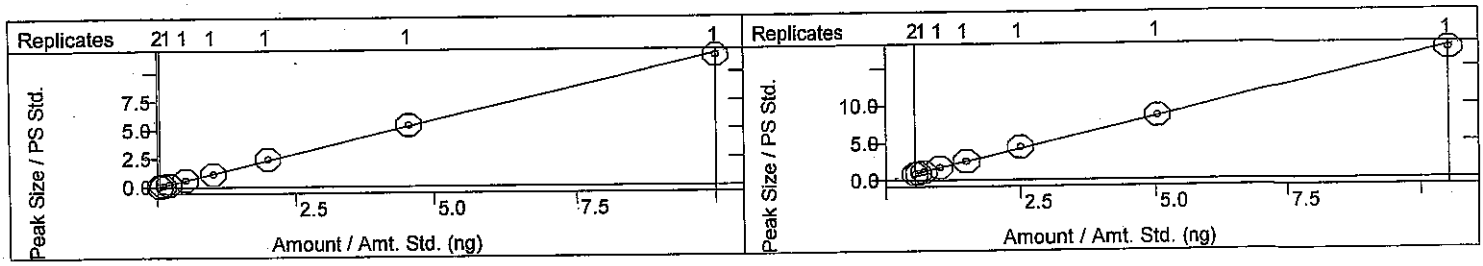
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.107%, Coeff. Det.(r2): 0.999574
y = +1.1890x +0.0042

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.10%, Coeff. Det.(r2): 0.998594
y = +0.4258x +0.0064



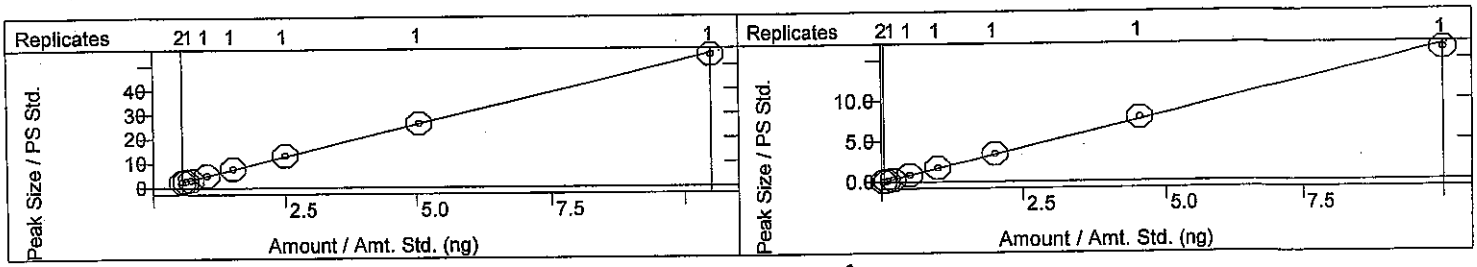
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.974%, Coeff. Det.(r2): 0.999614
y = +1.1636x +0.0077

Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.480%, Coeff. Det.(r2): 0.999539
y = +1.6879x -0.0061



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.038%, Coeff. Det.(r2): 0.999815
y = +5.2558x -0.4300

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.64%, Coeff. Det.(r2): 0.999077
y = +1.6725x -0.0246



✓ WB 7/8/14

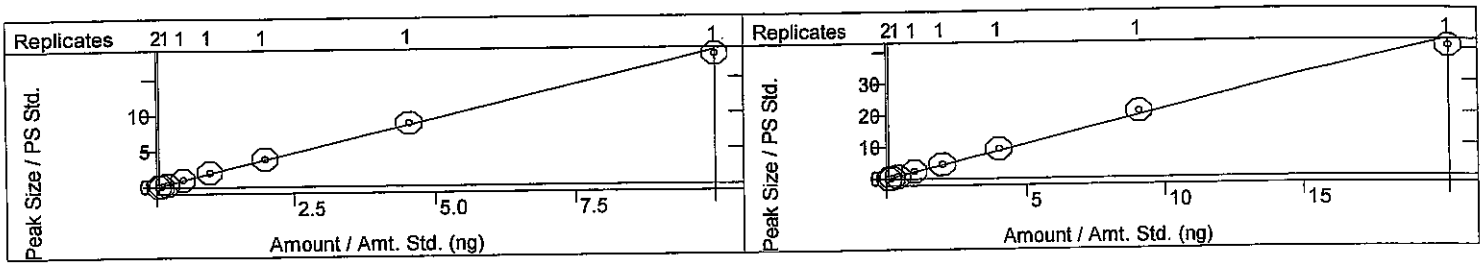
Calibration Curves Report

4 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

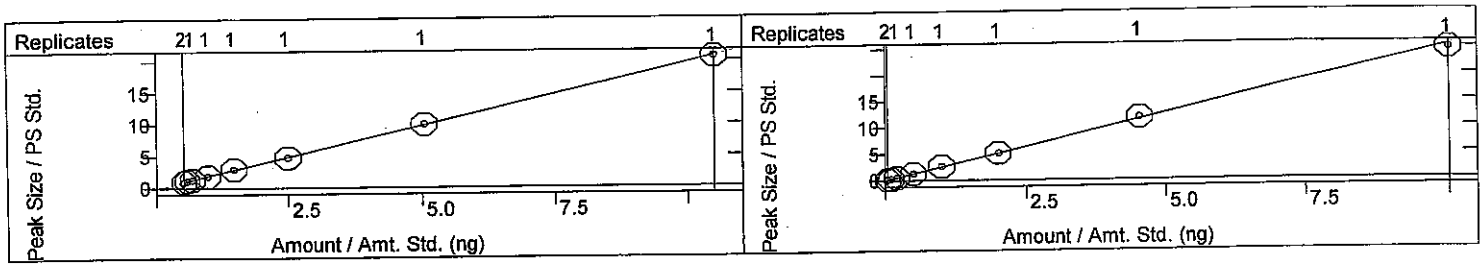
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.42%, Coeff. Det.(r2): 0.999114
y = +1.8907x -0.0218

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.51%, Coeff. Det.(r2): 0.996758
y = +2.1694x -0.0270



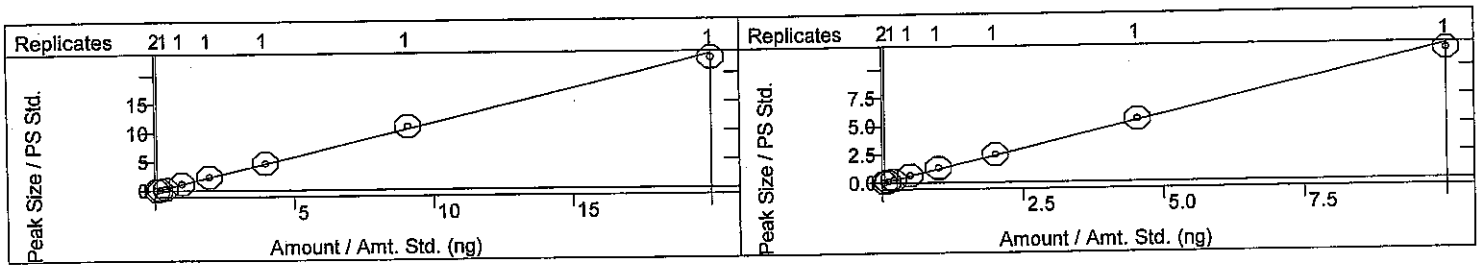
Toluene-d8
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.575%, Coeff. Det.(r2): 0.999892
y = +1.9789x -0.0769

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.666%, Coeff. Det.(r2): 0.999416
y = +2.5291x +0.0321



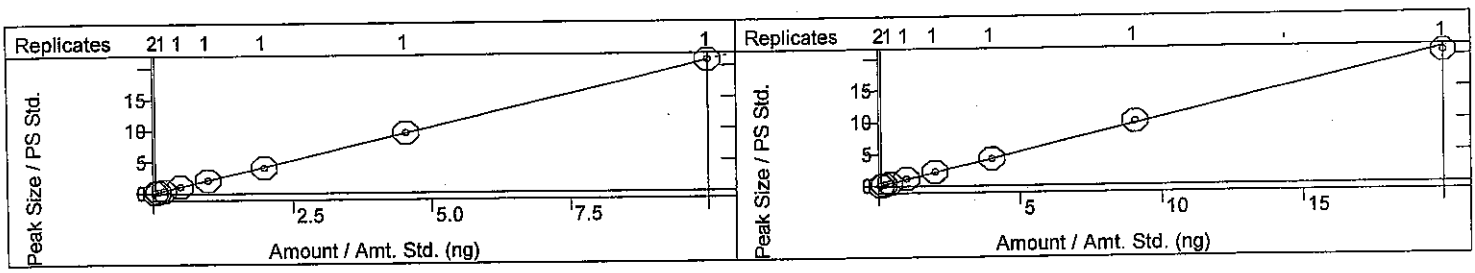
2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 26.60%, Coeff. Det.(r2): 0.998783
y = +1.1680x -0.0614

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.094%, Coeff. Det.(r2): 0.999194
y = +1.1848x +0.0213



cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.021%, Coeff. Det.(r2): 0.999953
y = +2.0904x +0.0091

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.74%, Coeff. Det.(r2): 0.999182
y = +1.0587x +0.0018



JDB 7/8/14

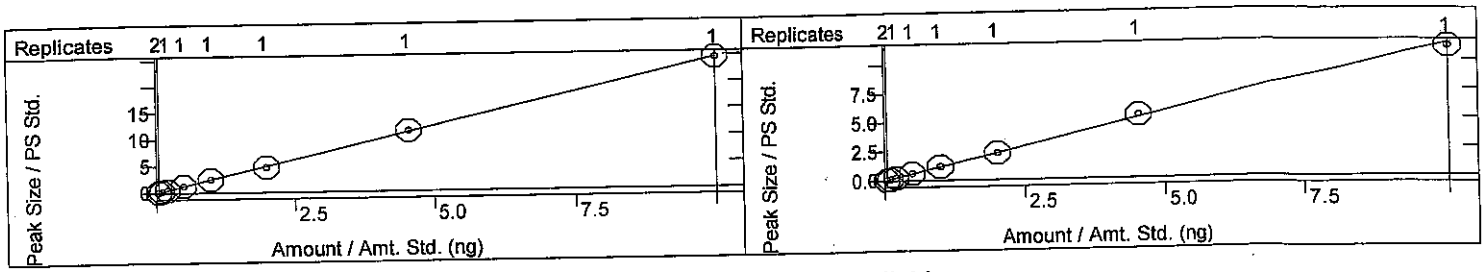
Calibration Curves Report

RA 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

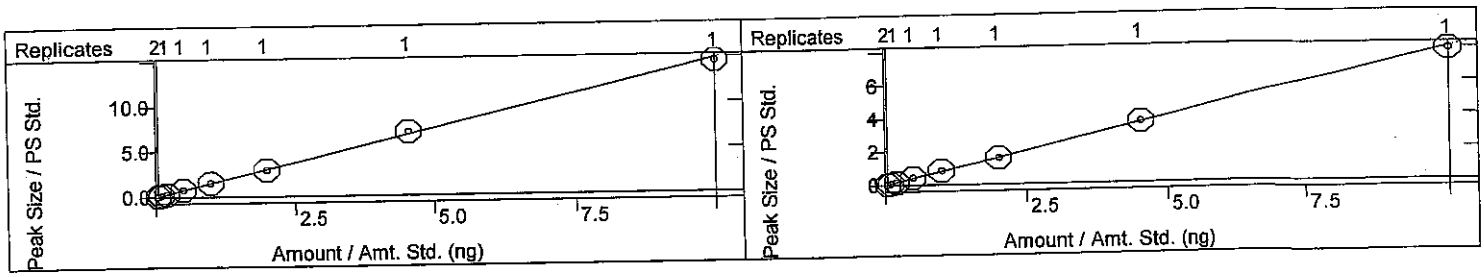
Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.873%, Coeff. Det.(r2): 0.999823
y = +2.4561x -0.0033

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.106%, Coeff. Det.(r2): 0.999202
y = +1.1480x +0.0074



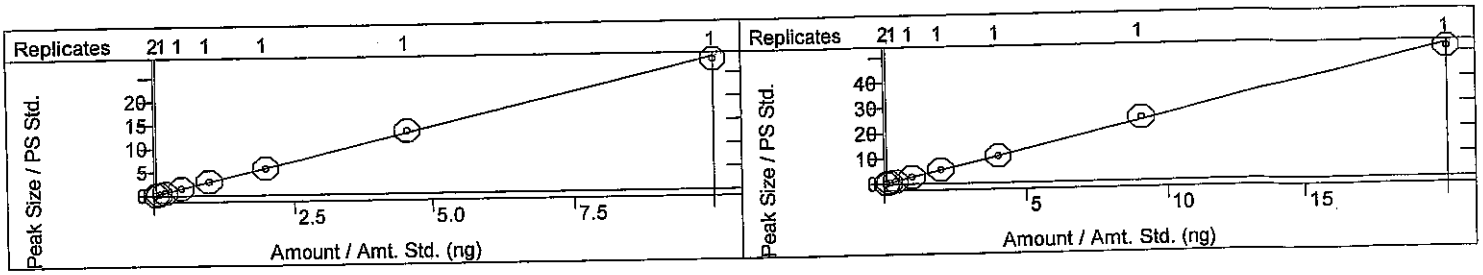
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.303%, Coeff. Det.(r2): 0.999166
y = +1.4886x +0.0127

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.417%, Coeff. Det.(r2): 0.999834
y = +0.8020x +0.0076



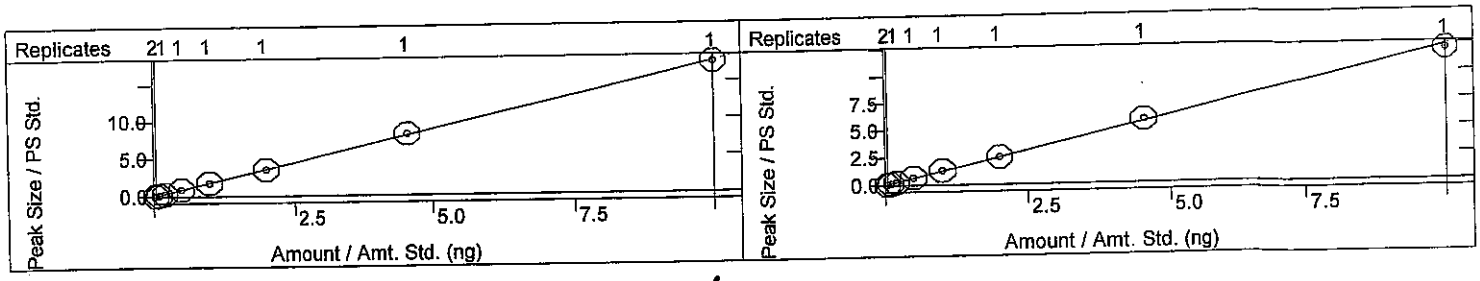
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.320%, Coeff. Det.(r2): 0.999407
y = +2.8407x +0.0298

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.069%, Coeff. Det.(r2): 0.999152
y = +2.6501x +0.0436



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.758%, Coeff. Det.(r2): 0.999853
y = +1.7692x -0.0110

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.988%, Coeff. Det.(r2): 0.999238
y = +1.2355x +0.0126



7/8/14

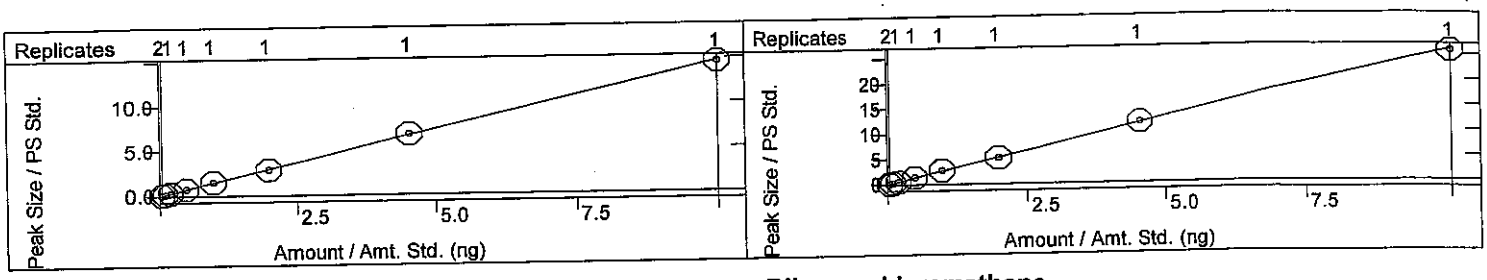
Calibration Curves Report

7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

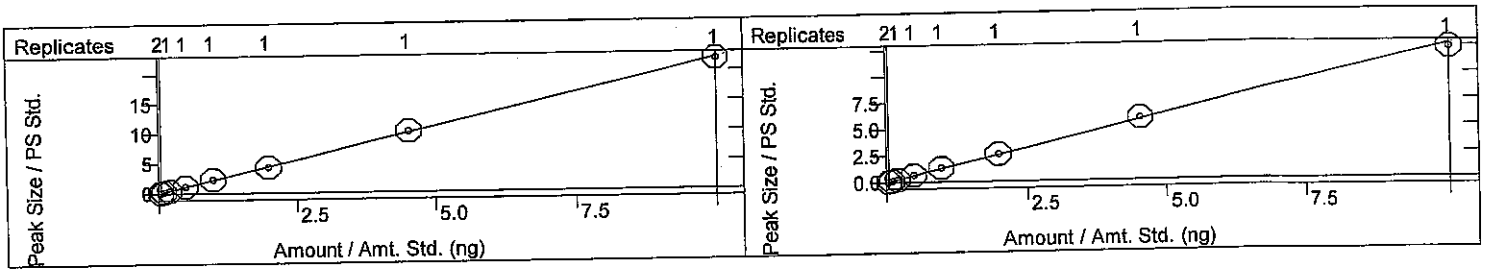
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.493%, Coeff. Det.(r2): 0.999876
y = +1.4682x +0.0052

o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.960%, Coeff. Det.(r2): 0.999883
y = +2.6077x +0.0157



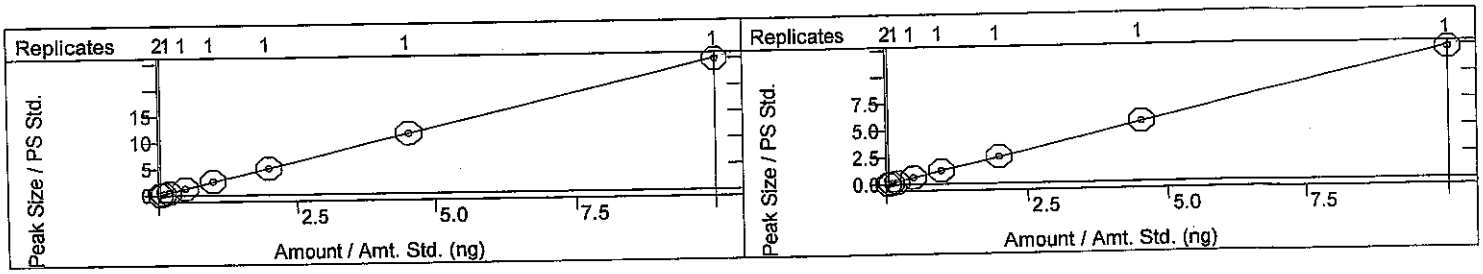
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.169%, Coeff. Det.(r2): 0.999816
y = +2.2118x +0.0143

Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.284%, Coeff. Det.(r2): 0.999461
y = +1.2678x +0.0090



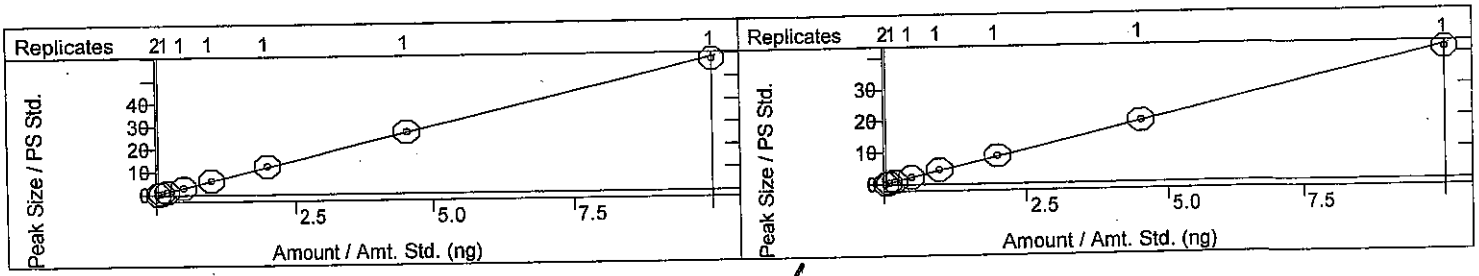
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.548%, Coeff. Det.(r2): 0.999960
y = +2.5111x +0.0196

Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.539%, Coeff. Det.(r2): 0.999905
y = +1.2320x +0.0065



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.246%, Coeff. Det.(r2): 0.999746
y = +5.8721x +0.0316

1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.001%, Coeff. Det.(r2): 0.999766
y = +4.2181x +0.0426



NB 7/8/14

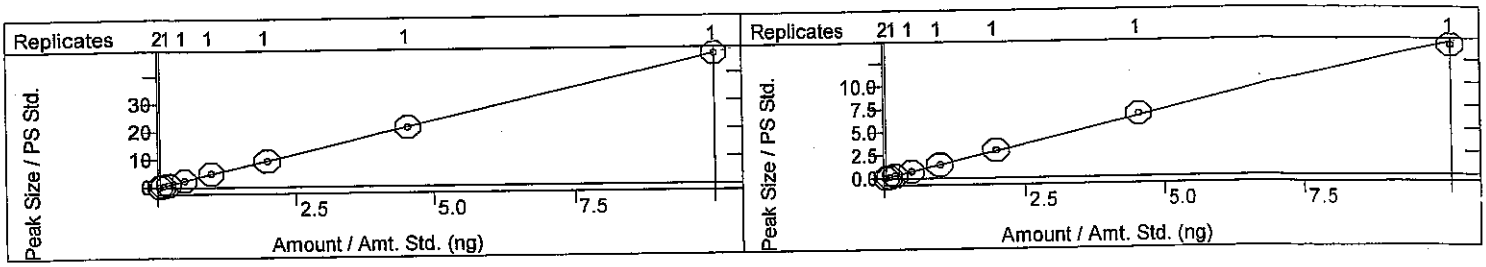
Calibration Curves Report

RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

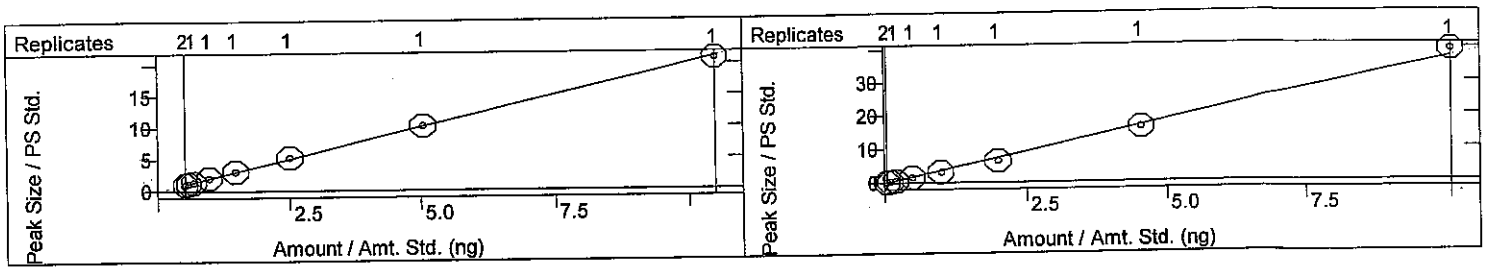
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.626%, Coeff. Det.(r2): 0.999964
y = +4.6917x +0.0371

2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.182%, Coeff. Det.(r2): 0.999268
y = +1.4485x +0.0123



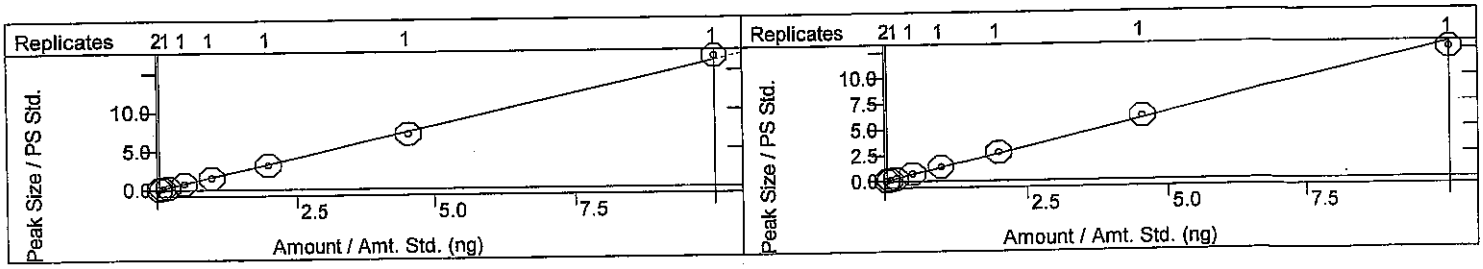
4-Bromofluorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.526%, Coeff. Det.(r2): 0.999779
y = +2.0145x -0.0044

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.018%, Coeff. Det.(r2): 0.997850
y = +3.7335x -0.0747



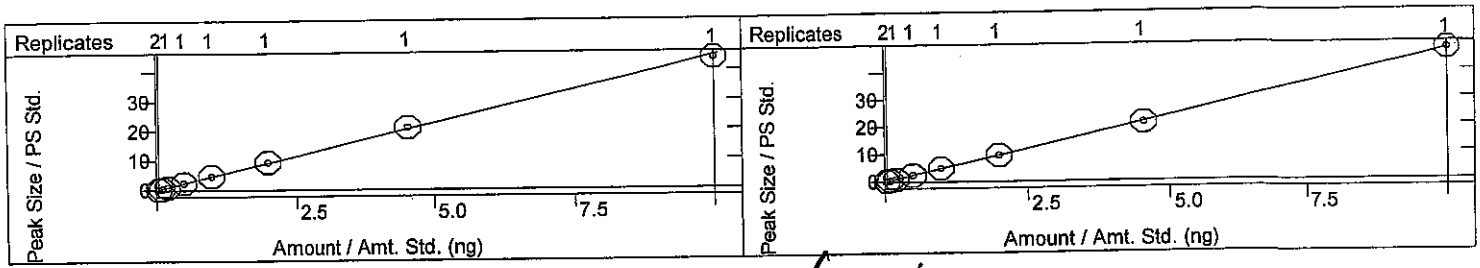
4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.788%, Coeff. Det.(r2): 0.998983
y = +1.6325x -0.0104

Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.209%, Coeff. Det.(r2): 0.998637
y = +1.3112x +0.0160



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.684%, Coeff. Det.(r2): 0.999556
y = +4.5034x +0.0255

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.100%, Coeff. Det.(r2): 0.999949
y = +4.7488x +6.6064e-4



✓ NB 7/8/14

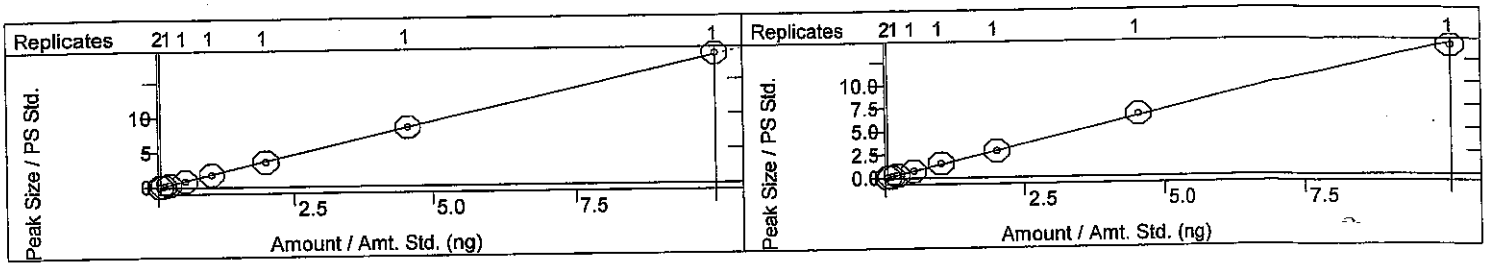
Calibration Curves Report

QA 7-7-14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

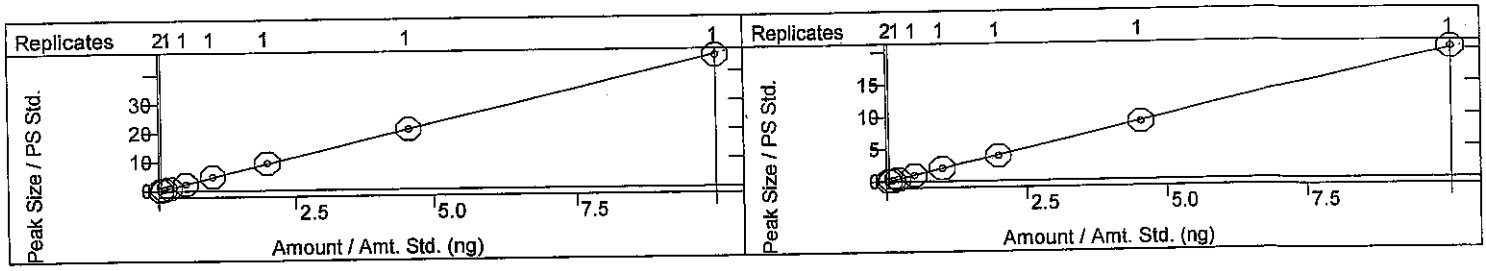
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.942%, Coeff. Det.(r2): 0.999930
y = +1.8526x -0.0114

1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.982%, Coeff. Det.(r2): 0.999474
y = +1.4282x +0.0107



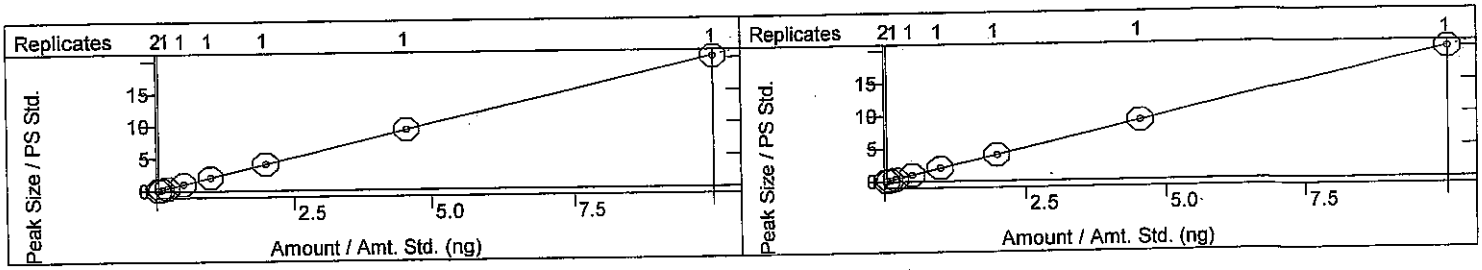
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.402%, Coeff. Det.(r2): 0.999930
y = +4.5956x -0.0092

1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.245%, Coeff. Det.(r2): 0.999835
y = +2.0082x -0.0142



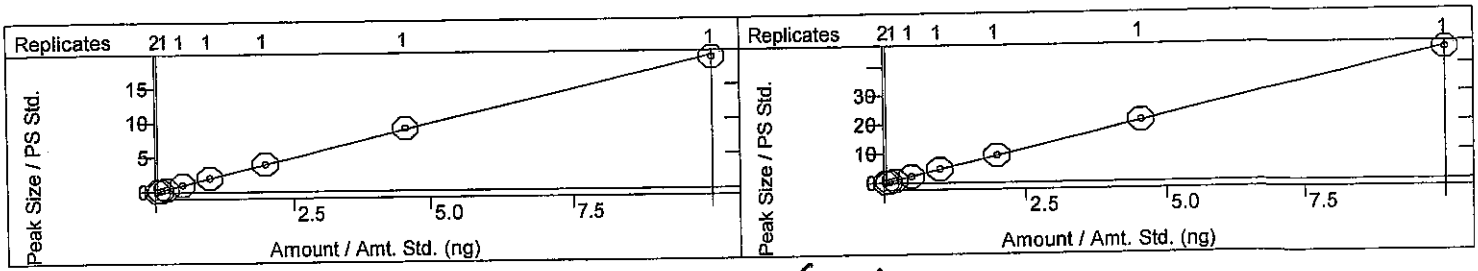
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.472%, Coeff. Det.(r2): 0.999976
y = +2.0363x +0.0119

1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.817%, Coeff. Det.(r2): 0.999992
y = +1.9980x +0.0081



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.181%, Coeff. Det.(r2): 0.999739
y = +1.9330x +0.0160

Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.664%, Coeff. Det.(r2): 0.999876
y = +4.5585x +0.0167



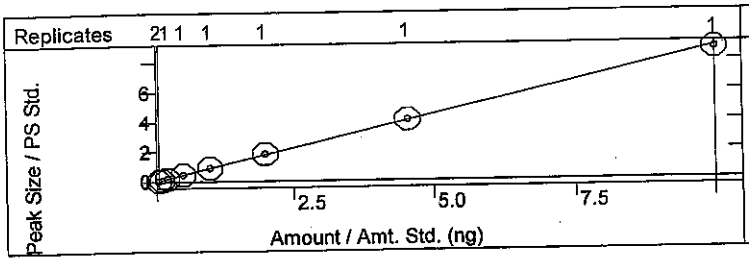
DB 7/8/14

Calibration Curves Report

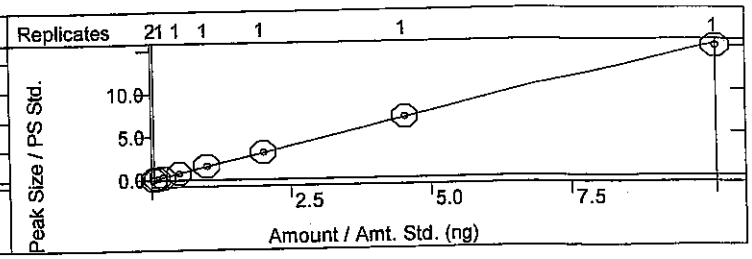
RA 7.7.14

Method:	c:\varianws\methods\070514v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	7/5/2014 8:36 PM
Sample List:	N/A	Cmpd. Table Updated:	7/6/2014 1:58 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

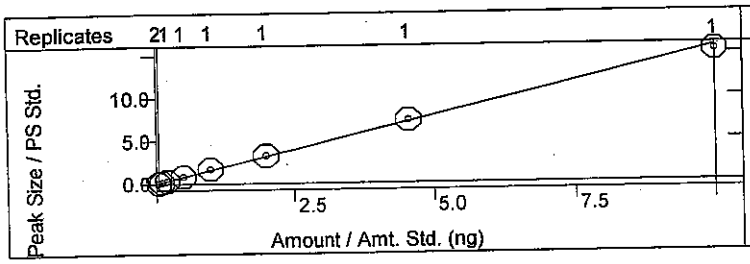
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.295%, Coeff. Det.(r2): 0.999841
y = +0.8887x +0.0066



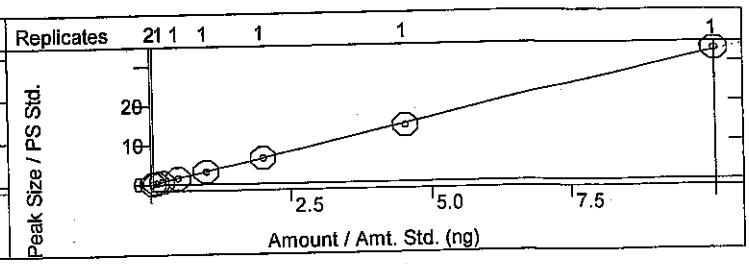
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.226%, Coeff. Det.(r2): 0.999790
y = +1.5336x +0.0044



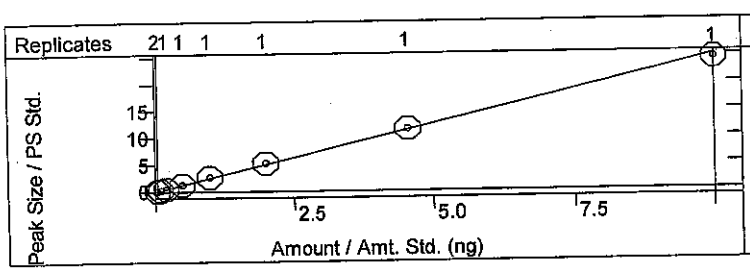
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.461%, Coeff. Det.(r2): 0.999348
y = +1.5806x +0.0115



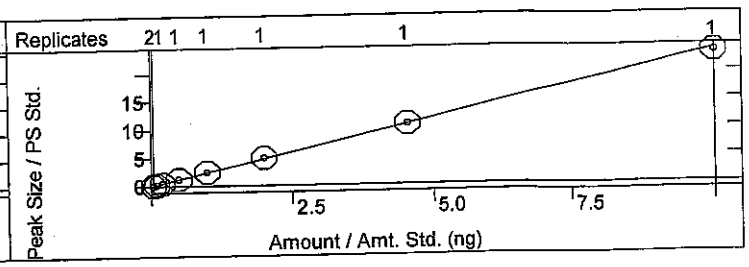
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.711%, Coeff. Det.(r2): 0.999549
y = +3.2685x -0.0144



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.498%, Coeff. Det.(r2): 0.999508
y = +2.4975x +0.0145



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.205%, Coeff. Det.(r2): 0.999820
y = +2.3651x +0.0191



KJB 7/8/14

arian Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

ampleList: C:\VarianWS\070614v.smp

reated: Sun Jul 06 15:00:06 2014
odified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: NA 7-6-14
1st Review By: NA 7-7-14
QA'd By: JNB 7/8/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Crv Plot Not used to quantify data
Acrylonitrile	☐	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	☒	
1,4-Dioxane	☐	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☐	☐	☒	☐	VQL: 500ng

Analyst: RA 7-7-14

QA: NB7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: ___ and ___.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

RT 7-7-14

DB WB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2														
b13 7-7-20	93813	14.31		93420	16.34													

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 7/7/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27 | 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

SB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3)	BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

Calibration Curves Report

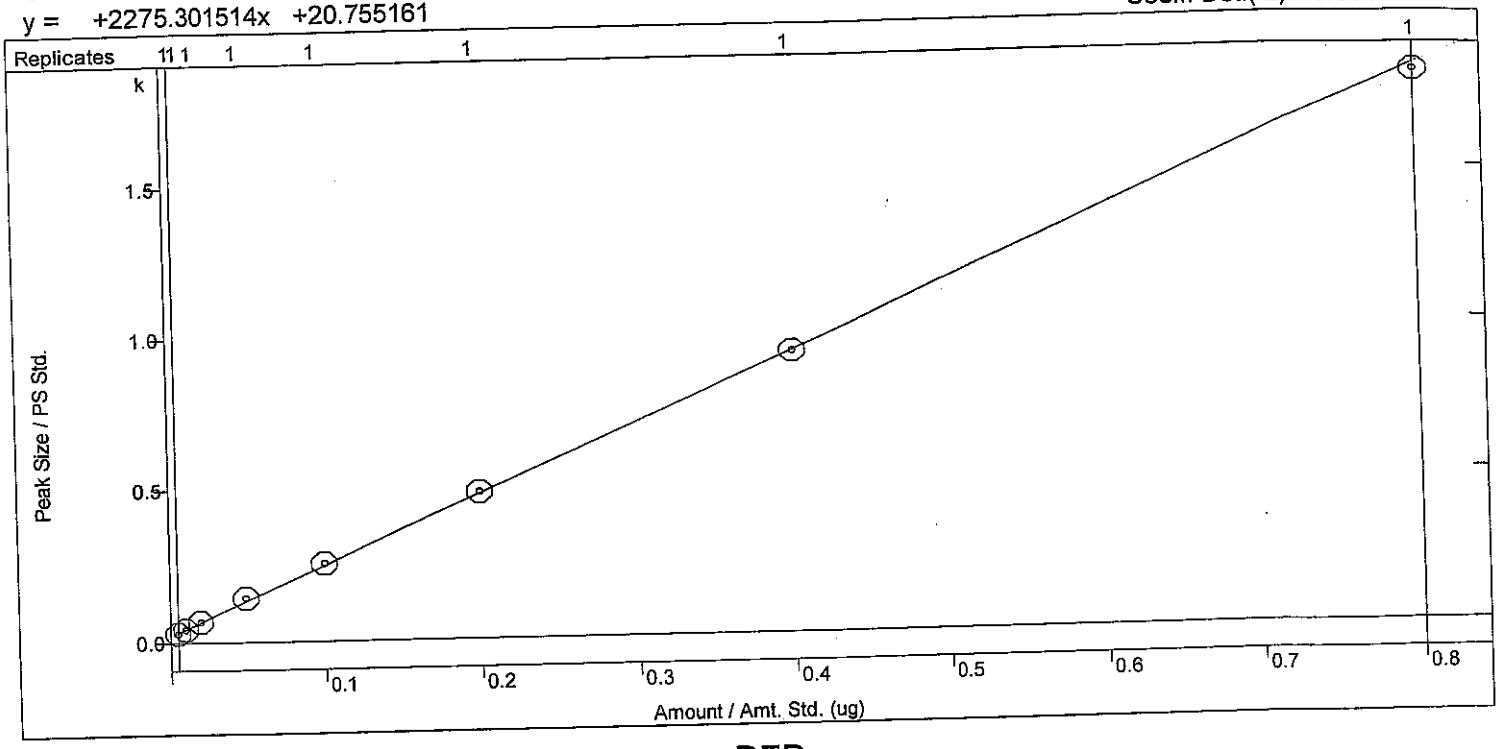
AT 7-7-14

Method:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
Recalc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
y = +2275.301514x +20.755161

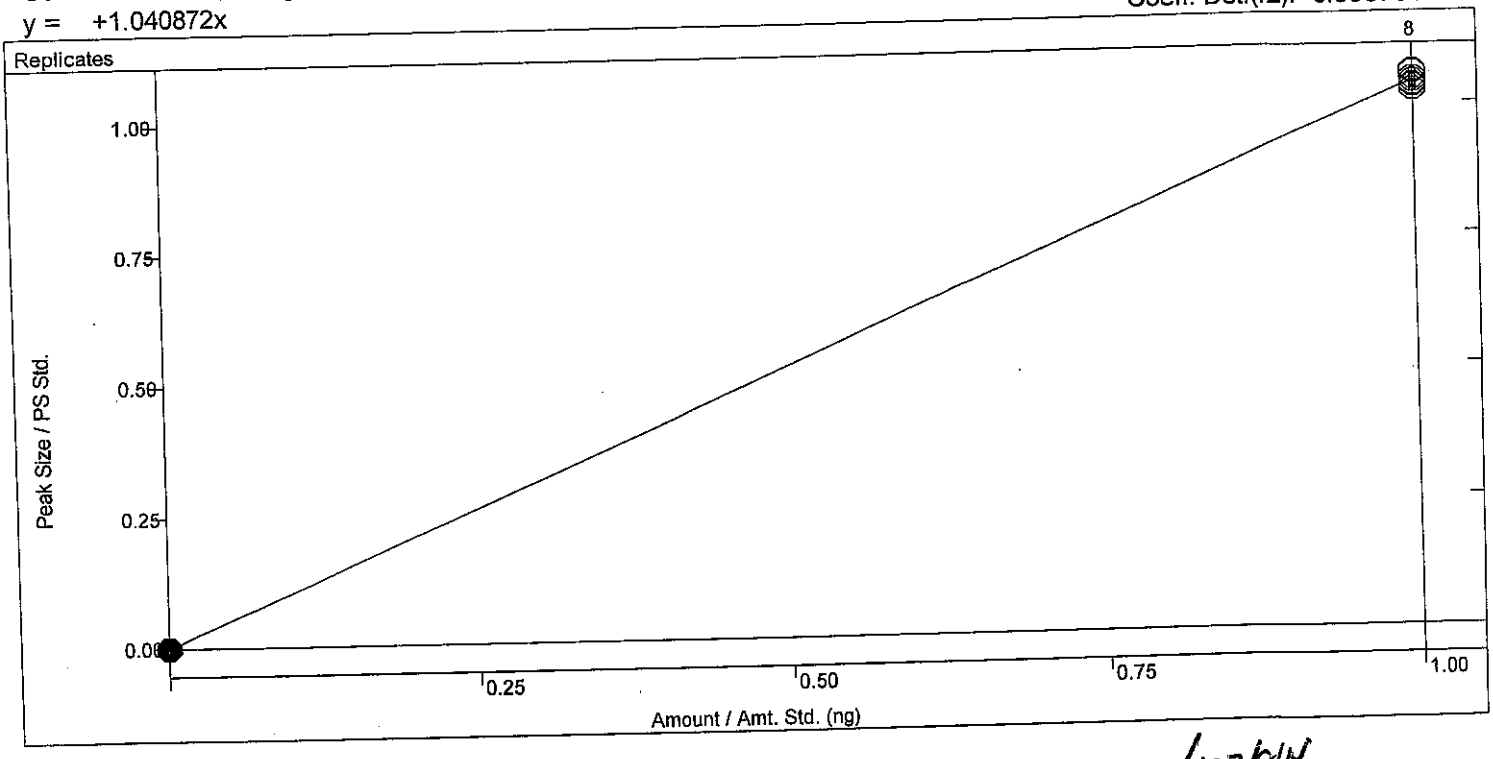
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

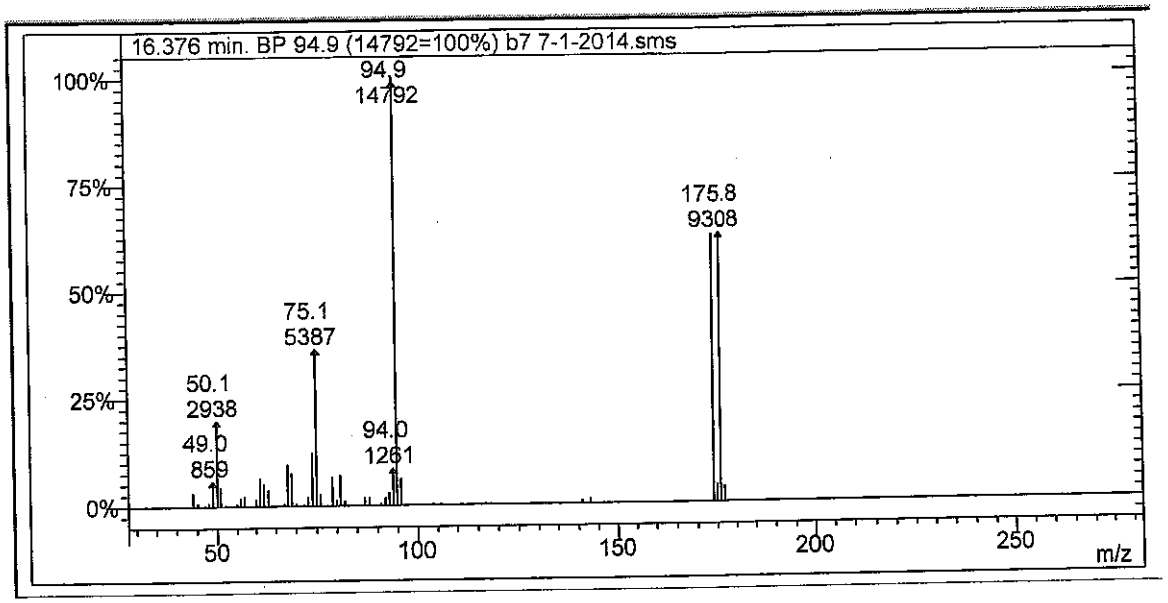
Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

BFB 8260B Report



Lab File ID: b7 7-1-2014.sms

Injection Date: 7/1/2014

Injection Time: 19:11

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.86	PASS
75	30-60% of m/z 95	36.42	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.03	PASS
173	<2% of m/z 174	0.10	PASS
174	>50% of m/z 95	62.48	PASS
175	5-9% of m/z 174	6.46	PASS
176	>95% but <101% of m/z 174	100.71	PASS
177	5-9% of m/z 176	5.57	PASS

7-7-14

Analyst: RAA

7/8/14

ırian Star Workstation - Generic SampleList Wed Jul 30 16:06:16 2014

ımpleList: C:\VarianWS\073014v.smp

:eated: Wed Jul 30 08:00:45 2014
›dified: Wed Jul 30 16:06:12 2014

****

Line	Sample Name	Injection Notes	
1	5mL-rb	below	tune @ 8:39
	Notes All injections contain V-52-0486		
2	rtm	below	
	Notes V-18-1994		
3	2.0ng ccv GRO	below	@ 9:28
	Notes V-18-2047		
4	2.5ng lcs GRO	below	
	Notes V-18-2036		
5	75ng ccv	below	@ 10:24
	Notes V-54-0447		
6	100ng lcs	below	
	Notes V-11-8059		
7	vcb	none	tune @ 11:20
8	1407D66-001a	below	
	Notes x1-100uL MSGRO 8260_SL		
9	1407D66-002a	below	
	Notes x1-100uL MSGRO 8260_SL		
10	1407D66-003a	below	
	Notes x10-10uL MSGRO 8260_SL		
11 handcalc	1407D66-004a	below	
	Notes x2-50uL MSGRO 8260_SL		
12	1407D66-003a	below	
	Notes r1-100uL MSGRO 8260_SL		
13	1407D63-001a	below	
	Notes x10-10uL MSGRO		
14	b1	none	
15	1407D66-003a	below	
	Notes r1-100uL MSGRO 8260_SL		
16	1407D63-001a	below	r5
	Notes r10-10uL MSGRO		
17	1407D63-003a	below	
	Notes x20-5uL MSGRO		
18	1407D63-002a	below	r1 COV
	Notes x1-100uL MSGRO		
19	1407D63-004a	below	
	Notes x1-100uL MSGRO 8260 FB		
20	1407D05-001a ms	below	
	Notes r1-100uL GRO V-18-2036		
21	1407D05-001a msd	below	
	Notes r1-100uL GRO V-18-2036		
22	1407D05-002a ms	below	
	Notes r1-100uL 8260 V-11-8059		
23	1407D05-002a msd	below	
	Notes r1-100uL 8260 V-11-8059		
24	1407D63-001a ms	below	} r5
	Notes x10-10uL MSGRO V-18-2036		
25	1407D63-001a msd	below	
	Notes x10-10uL MSGRO V-18-2036		
26	1407D34-001a	below	r1
	Notes x10-10uL MSGRO 8260		
27	1407D34-002a	below	r1
	Notes x10-10uL MSGRO 8260		
28	1407D34-003a	below	@ 9:10
	Notes x10-10uL MSGRO 8260		
29	rtm2	below	
	Notes V-18-1994		
30	2.5ng ccv GRO	below	@ 10:06
	Notes V-18-2061		
31	50ng ccv	below	@ 10:33
	Notes V-54-0447		
32	vcb2	none	tune @ 11:09
33	1407D34-004a	below	
	Notes x1-100uL MSGRO 8260		
34	1407D34-005a	below	
	Notes x1-100uL MSGRO 8260		
35	1407D34-006a	below	

Loaded By: KSH 7/30/14
1st Review By: KSH 7/31/14
QA'd By: ✓ WB 7/31/14

Notes x1-100uL MSGRO 8260

37 1407D34-008a below
Notes x1-100uL MSGRO 8260

38 1407D34-009a below
Notes x1-100uL MSGRO 8260

39 1407D34-010a below
Notes x1-100uL MSGRO 8260

40 1407D34-011a below @2:44
Notes x1-100uL MSGRO 8260 FB

41 LCS-14473 below
Notes V-11-8059

42 MB-14473 below
Notes 4681

43 1407D31-001a below
Notes x10-10uL Soil TCLP PB14473

44 1407D31-001ams below
Notes x10-10uL Soil TCLP V-11-8059 PB14473

45 1407D31-001amsd below
Notes x10-10uL Soil TCLP V-11-8059 PB14473

} Matrix interference, ~~[illegible]~~ KJH 7/31/14 @5:04

46

Loaded By: KJH 7/30/14
1st Review By KJH 7/31/14
QA'd By: ✓NB 7/31/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

:reate and update a new RecalcList: c:\varianws\073014v.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): a\2014v\0714v\073014v\gro\2.0ng ccv GRO 7-30-2014.SMS Lab Sample ID: 2.0ng ccv GRO

Instrument ID: VAL Date Analyzed: 7/30/2014 Time Analyzed: 09:28

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	71586	14.30										
UPPER LIMIT	143172	14.80										
LOWER LIMIT	35793	13.80										
EPA SAMPLE NO												
5mL-rb 7-3	72448	14.31										
rtm 7-30-2	69176	14.30										
2.5ng lcs	69981	14.30										
1407D66-00	59883	14.30										
1407D66-00	63592	14.31										
1407D66-00	67771	14.31										
1407D66-00	72406	14.31										
1407D66-00	66783	14.31										
1407D66-00	66827	14.31										
1407D63-00	77126	14.31										
1407D63-00	73476	14.31										
1407D63-00	61674	14.31										
1407D63-00	63441	14.31										
1407D34-00	69755	14.31										
1407D34-00	70271	14.31										
1407D34-00	70465	14.31										

✓ WB 7/31/14

KSH 7/31/14

7/31/2014 8:53

Analyst: KJH

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
rtm2 7-30-	68953	14.31										
2.5ng ccv	67226	14.31										
1407D34-00	67773	14.30										
1407D34-00	65591	14.30										
1407D34-00	63865	14.30										
1407D34-00	63583	14.31										
1407D34-00	64246	14.30										
1407D34-00	64884	14.31										
1407D34-01	62092	14.30										
1407D34-01	65207	14.30										

KJH 7/31/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

JB 7/31/14

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\073014v\75ng ccv 7-30-2014.SMS Lab Sample ID: 75ng ccv

Instrument ID: VAL Date Analyzed: 7/30/2014 Time Analyzed: 10:24

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	49426	7.99	72605	14.31	41513	17.91						
UPPER LIMIT	98852	8.49	145210	14.81	83026	18.41						
LOWER LIMIT	24713	7.49	36303	13.81	20757	17.41						
EPA SAMPLE NO												
5mL-rb 7-3	49373	7.99	72607	14.31	40944	17.91						
rtm 7-30-2	48440	7.99	69465	14.30	39425	17.91						
2.0ng ccv	48087	7.99	71732	14.30	39757	17.91						
2.5ng lcs	47558	7.99	69861	14.30	41221	17.91						
100ng lcs	46795	7.99	68791	14.31	38665	17.91						
vcb 7-30-2	47981	7.99	68504	14.31	39027	17.91						
1407D66-00	42112	7.99	60388	14.30	40782	17.91						
1407D66-00	45770	7.99	63054	14.31	44120	17.91						
1407D66-00	48063	8.00	67618	14.31	39187	17.91						
1407D66-00	52436	8.00	73131	14.31	46724	17.91						
1407D66-00	48639	7.99	66867	14.31	46863	17.91						
1407D63-00	52976	8.00	73690	14.31	43588	17.91						
b1 7-30-20	48365	8.00	69421	14.31	41218	17.91						
1407D66-00	47455	7.99	67142	14.31	45882	17.91						
1407D63-00	52940	8.00	78282	14.31	44509	17.91						
1407D63-00	48156	8.00	73819	14.31	42269	17.92						

JB 7/31/14

KJH 7/31/14

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407D63-00	43513	8.00	62020	14.31	44550	17.92						
1407D63-00	45334	7.99	64197	14.31	46088	17.92						
1407D05-00	47041	8.00	65434	14.31	44423	17.92						
1407D05-00	47159	8.00	64985	14.32	44623	17.92						
1407D05-00	45857	8.00	64027	14.32	44121	17.92						
1407D05-00	44259	8.00	63375	14.32	43758	17.92						
1407D63-00	53601	8.00	73874	14.31	41086	17.92						
1407D63-00	53347	8.00	72955	14.31	42104	17.91						
1407D34-00	49095	8.00	69986	14.31	39569	17.91						
1407D34-00	50145	8.00	70665	14.31	39498	17.92						
1407D34-00	48896	8.00	70672	14.31	40803	17.91						
rtm2 7-30-	46923	8.00	69019	14.31	39547	17.91						
2.5ng ccv	46417	7.99	67761	14.31	39385	17.91						
50ng ccv	47448	7.99	70917	14.30	38334	17.91						
vcb2 7-30-	43673	7.99	64546	14.30	37636	17.90						
1407D34-00	46649	7.99	68307	14.30	41281	17.91						
1407D34-00	45123	7.98	65703	14.30	43891	17.90						
1407D34-00	45454	7.99	63929	14.30	43379	17.91						
1407D34-00	46488	7.99	63615	14.31	40961	17.91						
1407D34-00	44920	7.99	64722	14.30	41316	17.90						
1407D34-00	44374	7.98	65581	14.31	42581	17.91						
1407D34-01	44134	7.99	62506	14.30	42801	17.91						
1407D34-01	45503	7.98	65479	14.30	44052	17.91						
LCS-14473	46233	7.98	66676	14.31	42094	17.91						
MB-14473 7	45846	7.98	64277	14.30	41744	17.90						
1407D31-00	47304	7.99	65552	14.30	38813	17.90						
1407D31-00	46001	7.98	66679	14.30	37349	17.90						
1407D31-00	45338	7.99	67715	14.30	38171	17.91						

JB 7/31/14

KJH 7/31/14

Analyst: KJH

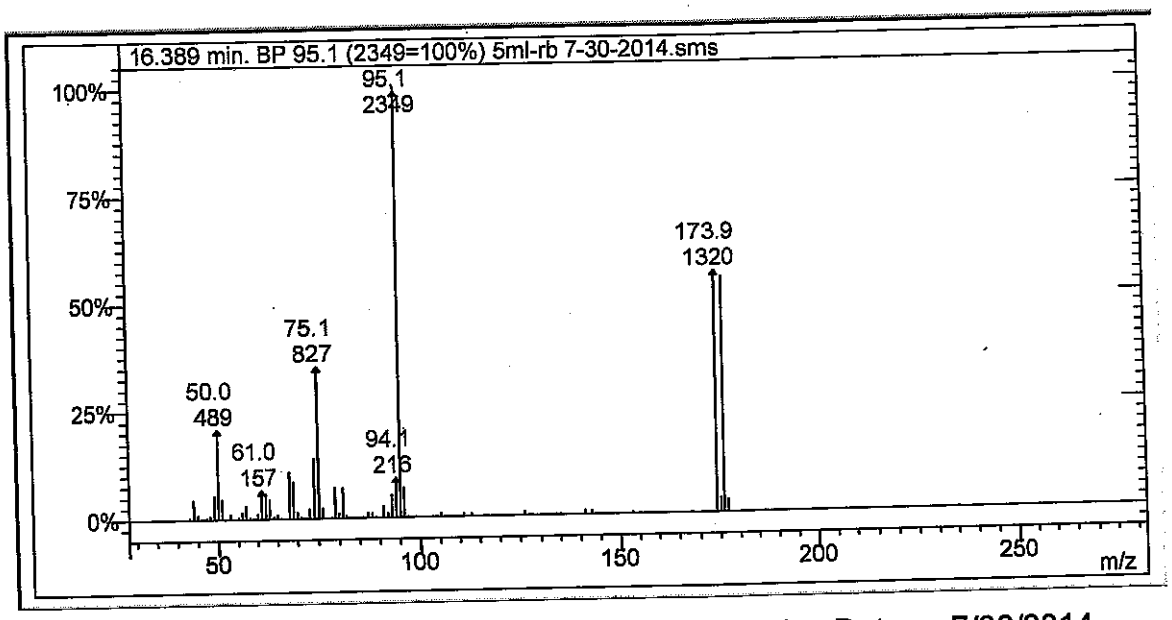
	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: KJH

BFB 8260B Report



Lab File ID: 5ml-rb 7-30-2014.sms

Injection Date: 7/30/2014

Injection Time: 8:32

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.82	PASS
75	30-60% of m/z 95	35.21	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.90	PASS
173	<2% of m/z 174	0.08	PASS
174	>50% of m/z 95	56.19	PASS
175	5-9% of m/z 174	5.98	PASS
176	>95% but <101% of m/z 174	97.50	PASS
177	5-9% of m/z 176	5.28	PASS

KJH 7/31/14

✓ JB 7/31/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıding\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.0ng ccv	71586	14.30										

KJH 7/31/14

7/31/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/30/2014 9:56

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/30/2014 Time: 9:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.0ng ccv gro 7-30-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2567.907	0.100	2.00	1.80	9.9	20.0	PASS	PASS
BFB	1.005	0.100	50.00	48.28	3.4	30.0	PASS	PASS

KJH
7/31/14

✓ JB 7/31/14

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): iws\data\pending\070514v 8260 crv\100ng crv 7-5-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
75ng ccv 7	49426	7.99	72605	14.31	41513	17.91						

KSH 7/31/14

WB 7/31/14

IS1 = Pentafluorobenzene

IS2 = Benzene-d5-, chloro-

IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/30/2014 10:52

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/30/2014 Time: 10:24

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/5/2014 7/5/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:12 20:12

Initial Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Lab File ID: c:\varianws\data\75ng ccv 7-30-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.636	0.100	75.00	59.37	20.8	30.0	PASS	PASS
Chloromethane	0.465	0.100	75.00	53.80	28.3	30.0	PASS	PASS
Vinyl chloride	1.532	0.100	75.00	67.53	10.0	20.0	PASS	PASS
Chloroethane	0.243	0.100	75.00	72.36	3.5	30.0	PASS	PASS
Bromomethane	1.363	0.100	75.00	94.55	-26.1	30.0	PASS	PASS
Trichlorofluoromethane	0.876	0.100	75.00	76.28	-1.7	30.0	PASS	PASS
1,1-Dichloroethene	1.225	0.100	75.00	76.78	-2.4	20.0	PASS	PASS
Acetone	0.440	0.100	150.00	103.45	31.0	40.0	PASS	PASS
Carbon disulfide	1.085	0.100	150.00	156.58	-4.4	40.0	PASS	PASS
Iodomethane	0.326	0.100	150.00	61.53	59.0	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.299	0.100	150.00	141.19	5.9	30.0	PASS	PASS
Isopropyl ether	1.536	0.100	150.00	147.88	1.4	40.0	PASS	PASS
tert-Butyl alcohol	0.289	0.100	1500.00	1230.49	18.0	40.0	PASS	PASS
trans-1,2-DCE	1.451	0.100	75.00	76.30	-1.7	30.0	PASS	PASS
tert-Butyl ethyl ether	3.071	0.100	150.00	162.70	-8.5	40.0	PASS	PASS
1,1-Dichloroethane	1.444	0.100	75.00	71.59	4.6	30.0	PASS	PASS
Methylene Chloride	1.475	0.100	75.00	70.10	6.5	30.0	PASS	PASS
Vinyl Acetate	2.245	0.100	150.00	182.80	-21.9	40.0	PASS	PASS
2,2-Dichloropropane	0.901	0.100	75.00	80.87	-7.8	30.0	PASS	PASS
2-Butanone	0.514	0.100	150.00	99.70	33.5	40.0	PASS	PASS
1,1,1-Trichloroethane	1.551	0.100	75.00	77.59	-3.4	30.0	PASS	PASS
tert-Amyl methyl ether	1.431	0.100	150.00	145.88	2.7	40.0	PASS	PASS
1,1-Dichloropropene	0.712	0.100	75.00	78.93	-5.2	30.0	PASS	PASS
Carbon Tetrachloride	3.102	0.100	75.00	73.18	2.4	30.0	PASS	PASS
cis-1,2-DCE	1.983	0.100	75.00	78.96	-5.3	30.0	PASS	PASS
Benzene	1.836	0.100	75.00	77.59	-3.5	30.0	PASS	PASS
Chloroform	1.278	0.100	75.00	80.46	-7.3	20.0	PASS	PASS
Bromochloromethane	0.460	0.100	75.00	80.29	-7.1	30.0	PASS	PASS
Trichloroethene (TCE)	1.223	0.100	75.00	78.48	-4.6	30.0	PASS	PASS
Dibromofluoromethane	1.529	0.100	50.00	45.46	9.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.290	0.100	50.00	44.90	10.2	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.671	0.100	75.00	75.65	-0.9	30.0	PASS	PASS
1,2-Dichloropropane	1.987	0.100	75.00	79.40	-5.9	20.0	PASS	PASS
4-Methyl-2-pentanone	1.920	0.100	150.00	133.40	11.1	40.0	PASS	PASS
Toluene-d8	1.767	0.100	50.00	46.58	6.8	30.0	PASS	PASS

2 nr

✓ NC 7/31/14

KSH 7/31/14

7/30/2014 10:52

Analyst: KJH

75ng ccv 7-30-2014.sms

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.634	0.100	75.00	77.47	-3.3	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.089	0.100	150.00	14.04	90.6	40.0	FAIL	FAIL
Tetrachloroethene (PCE)	1.353	0.100	75.00	84.73	-13.0	30.0	PASS	PASS
cis-1,3-dichloropropene	2.048	0.100	75.00	73.25	2.3	30.0	PASS	PASS
2-Hexanone	0.875	0.100	150.00	123.91	17.4	40.0	PASS	PASS
Bromodichloromethane	2.415	0.100	75.00	73.83	1.6	30.0	PASS	PASS
Dibromomethane	1.167	0.100	75.00	75.93	-1.2	30.0	PASS	PASS
1,3-Dichloropropane	1.465	0.100	75.00	73.36	2.2	30.0	PASS	PASS
trans-1,3-dichloropropene	0.778	0.100	75.00	72.27	3.6	30.0	PASS	PASS
Ethylbenzene	2.979	0.100	75.00	78.12	-4.2	20.0	PASS	PASS
mp-Xylenes	2.700	0.100	150.00	152.02	-1.3	30.0	PASS	PASS
1,1,2-Trichloroethane	1.696	0.100	75.00	72.21	3.7	30.0	PASS	PASS
Chlorobenzene	1.286	0.300	75.00	77.58	-3.4	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.382	0.100	75.00	70.41	6.1	30.0	PASS	PASS
o-Xylene	2.695	0.100	75.00	77.21	-2.9	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.235	0.100	75.00	75.46	-0.6	30.0	PASS	PASS
Dibromochloromethane	1.276	0.100	75.00	75.16	-0.2	30.0	PASS	PASS
Isopropylbenzene	2.615	0.100	75.00	77.72	-3.6	30.0	PASS	PASS
Styrene	1.244	0.100	75.00	75.44	-0.6	30.0	PASS	PASS
n-Propylbenzene	5.872	0.100	75.00	74.73	0.4	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.304	0.100	75.00	76.02	-1.4	30.0	PASS	PASS
tert-Butylbenzene	4.679	0.100	75.00	74.41	0.8	30.0	PASS	PASS
2-Chlorotoluene	1.465	0.100	75.00	75.44	-0.6	30.0	PASS	PASS
4-Bromofluorobenzene	1.792	0.100	50.00	44.58	10.8	30.0	PASS	PASS
sec-Butylbenzene	3.047	0.100	75.00	62.20	17.1	30.0	PASS	PASS
4-Chlorotoluene	1.583	0.100	75.00	73.07	2.6	30.0	PASS	PASS
Bromobenzene	1.371	0.100	75.00	77.81	-3.7	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.465	0.100	75.00	74.08	1.2	30.0	PASS	PASS
4-Isopropyltoluene	4.635	0.100	75.00	73.19	2.4	30.0	PASS	PASS
Bromoform	1.581	0.100	75.00	64.32	14.2	30.0	PASS	PASS
1,2,3-Trichloropropane	1.318	0.100	75.00	68.82	8.2	30.0	PASS	PASS
n-Butylbenzene	4.433	0.100	75.00	72.45	3.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.664	0.300	75.00	62.50	16.7	30.0	PASS	PASS
1,3-Dichlorobenzene	2.039	0.100	75.00	74.81	0.3	30.0	PASS	PASS
1,4-Dichlorobenzene	2.054	0.100	75.00	76.90	-2.5	30.0	PASS	PASS
1,2-Dichlorobenzene	1.999	0.100	75.00	77.14	-2.8	30.0	PASS	PASS
Hexachlorobutadiene	3.973	0.100	75.00	65.18	13.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.738	0.100	75.00	61.87	17.5	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.539	0.100	75.00	75.12	-0.2	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.562	0.100	75.00	73.75	1.7	30.0	PASS	PASS
Naphthalene	2.757	0.100	75.00	63.48	15.4	30.0	PASS	PASS
2-Methylnaphthalene	2.187	0.100	75.00	65.40	12.8	40.0	PASS	PASS
1-Methylnaphthalene	2.006	0.100	75.00	63.21	15.7	40.0	PASS	PASS

2 nr

KJH 7/31/14

JDB 7/31/14

Analyst: KJH

arian Star Workstation - Generic SampleList Thu Jul 31 16:08:24 2014

ampleList: C:\VarianWS\073114v.smp

reated: Thu Jul 31 08:25:46 2014
odified: Thu Jul 31 15:48:49 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections V-52-0489	
2	5mL-rb	none tune@ 9:09
3	rtm	below
	Notes V-18-2064	
4	2.25ng ccv GRO	below@10:19
	Notes V-18-2061	
5	2.5ng lcs GRO	below
	Notes V-18-2036	
6	100ng ccv	below@11:08
	Notes V-54-0452	
7	100ng lcs	below
	Notes V-11-8059	
8	vcb	none
9	100ng lcsb	below
	Notes V-11-8059	
10	vcbb	none
11	1407D63-001a	below
	Notes r5-20uL MSGRO 8260	
12	b2	none
13	1407D63-002a	below
	Notes r1-100uL MSGRO 8260	
14	b3	none
15	1407D63-001a ms	below
	Notes r5-20uL MSGRO 8260 V-18-2036	
16	1407D63-001a msd	below
	Notes r5-20uL MSGRO 8260 V-18-2036	
17	b4	none
18	1407D34-001a	below
	Notes r1-100uL MSGRO 8260	
19	1407D34-002a	below
	Notes r1-100uL MSGRO 8260@5:23	
20	b5	none tune@ 5:41
21	1407D55-001a	below
	Notes x1-5mL	
22	1407D55-001a ms	below
	Notes x1-5mL V-11-8059	
23	1407D55-001a msd	below
	Notes x1-5mL V-11-8059	
24	1407D55-002a	below
	Notes x1-5mL TB	
25	1407E24-001a	below
	Notes x1-5mL	
26	1407E24-002a	below
	Notes x1-5mL	
27	1407E24-003a	below
	Notes x1-5mL	
28	1407E24-004a	below
	Notes x1-5mL	
29	1407D90-001a	below
	Notes x2-2.5mL DDS	
30	1407D90-002a	below
	Notes x2-2.5mL DDS	
31	1407D90-003a	below @10:48
	Notes x1-5mL	
32	tt	none
33	75ng ccv	below@11:44
	Notes V-54-0482	
34	vcb2	none
35	1407D90-004a	below
	Notes x1-5mL	
36	1407E22-001a	below
	Notes x1000-0.005mL	
37	1407E22-001a	below
	Notes r100-0.05mL	
38	b6	none

Loaded By: KSH 7/31/14
1st Review By: KSH 8/1/14
QA'd By: NDS 8/1/14

40 1407E22-002a below @ 2:59
Notes r5-1mL
41 b7 none

Loaded By: KSH 7/31/14
1st Review By: KSH 8/1/14
QA'd By: ✓ NB 8/1/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\073114v.rcl.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \2014v\0714v\073114v\gro\2.25ng ccv GRO 7-31-2014.SMS Lab Sample ID: 2.25ng ccv GRO

Instrument ID: VAL Date Analyzed: 7/31/2014 Time Analyzed: 10:12

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	65639	14.30										
UPPER LIMIT	131278	14.80										
LOWER LIMIT	32820	13.80										
EPA SAMPLE NO												
5mL-rb 7-3	64431	14.30										
rtm 7-31-2	62337	14.30										
2.5ng lcs	66460	14.30										
1407D63-00	61545	14.30										
b2 7-31-20	60545	14.31										
1407D63-00	59145	14.31										
1407D63-00	65118	14.30										
1407D63-00	68722	14.30										
b4 7-31-20	63242	14.30										
1407D34-00	62852	14.31										
1407D34-00	59404	14.31										

KJH 8/1/14 NBS 8/4/14

Analyst: KJH

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
IS1																		

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\073114v\100ng ccv 7-31-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 7/31/2014 Time Analyzed: 11:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	46076	7.99	67235	14.30	38329	17.90						
UPPER LIMIT	92152	8.49	134470	14.80	76658	18.40						
LOWER LIMIT	23038	7.49	33618	13.80	19165	17.40						
EPA SAMPLE NO												
b1 7-31-20	48899	7.99	68722	14.30	38657	17.91						
5mL-rb 7-3	44146	7.99	64563	14.30	36001	17.90						
rtm 7-31-2	43788	7.99	62647	14.30	35381	17.91						
2.25ng ccv	46547	7.99	65652	14.30	36902	17.90						
2.5ng lcs	47530	7.99	66661	14.30	36763	17.90						
100ng lcs	44660	7.99	62877	14.30	35693	17.91						
vcb 7-31-2	45240	7.99	64164	14.30	36326	17.90						
100ng lcsb	43872	7.99	65156	14.30	36161	17.91						
vcbb 7-31-	44140	7.99	61840	14.30	34824	17.91						
1407D63-00	44153	7.99	61810	14.30	36400	17.91						
b2 7-31-20	41964	7.99	61353	14.31	35311	17.91						
1407D63-00	41286	7.99	59254	14.31	38910	17.91						
b3 7-31-20	43134	7.99	59914	14.30	35427	17.91						
1407D63-00	48234	7.99	65182	14.30	37451	17.91						
1407D63-00	49132	8.00	68813	14.31	37797	17.91						
b4 7-31-20	44411	8.00	63351	14.30	36231	17.91						

JB 8/1/14

KJH 8/1/14

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407D34-00	42000	7.99	63103	14.31	41958	17.91						
1407D34-00	43660	7.99	59587	14.31	38169	17.92						
b5 7-31-20	45278	8.00	62256	14.31	36710	17.91						
1407D55-00	44470	7.99	64585	14.31	36511	17.91						
1407D55-00	43510	8.00	64233	14.31	35555	17.91						
1407D55-00	43959	8.00	65342	14.31	36535	17.91						
1407D55-00	42957	8.00	62654	14.31	35013	17.91						
1407E24-00	42413	7.99	60910	14.31	34453	17.91						
1407E24-00	42856	7.99	62166	14.30	35239	17.91						
1407E24-00	43255	7.99	62517	14.31	35875	17.91						
1407E24-00	41313	7.99	61280	14.30	34487	17.91						
1407D90-00	43870	7.99	63587	14.31	35589	17.91						
1407D90-00	43409	7.99	61937	14.31	33673	17.91						
1407D90-00	42938	7.99	61793	14.31	36574	17.91						
tt 7-31-20	42972	7.99	62717	14.30	35726	17.91						
75ng ccv 7	44877	7.99	66088	14.30	37051	17.91						
vcb2 8-1-2	42756	7.99	63801	14.30	36116	17.90						
1407D90-00	44548	7.99	64073	14.30	35630	17.90						
1407E22-00	42900	7.99	61612	14.30	34918	17.90						
1407E22-00	44010	7.99	64468	14.30	36377	17.90						
b6 8-1-201	42385	7.99	62560	14.30	34808	17.91						
1407E22-00	42472	7.99	62208	14.30	34607	17.90						
1407E22-00	43320	7.99	63327	14.31	35488	17.91						
b7 8-1-201	44230	7.99	62325	14.31	40960	17.91						

KJH
8/1/14

8/1/14

Analyst: KJH

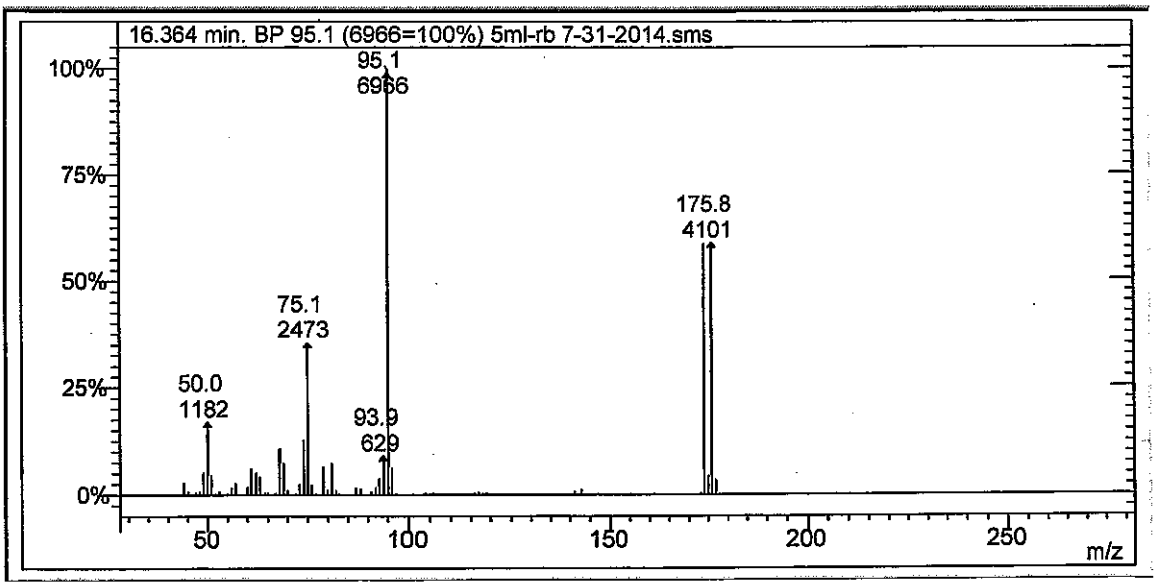
	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: KJH

BFB 8260B Report



Lab File ID: 5ml-rb 7-31-2014.sms

Injection Date: 7/31/2014

Injection Time: 9:09

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	16.97	PASS
75	30-60% of m/z 95	35.50	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.29	PASS
173	<2% of m/z 174	0.56	PASS
174	>50% of m/z 95	58.60	PASS
175	5-9% of m/z 174	7.42	PASS
176	>95% but <101% of m/z 174	100.47	PASS
177	5-9% of m/z 176	5.78	PASS

KSH 8/1/14

JWB 8/1/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıding\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.25ng ccv	65639	14.30										

KSH 8/1/14 ✓ JBS 8/1/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/31/2014 Time: 10:12

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.25ng ccv gro 7-31-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2517.844	0.100	2.50	2.31	7.6	20.0	PASS	PASS
BFB	1.039	0.100	50.00	49.93	0.1	30.0	PASS	PASS

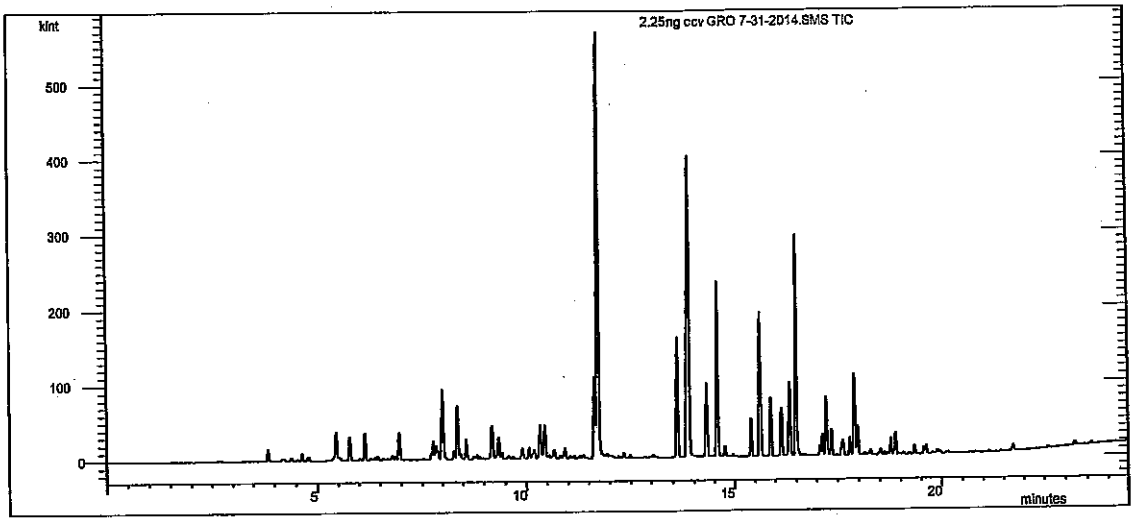
KJH
8/1/14

8/1/14

Analyst: KJH

8015D MOD GRO

Sample Name:	2.25ng ccv GRO	**Operator Name:**	Kaitlyn Hughes	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\070514V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	7/31/2014 10:12:14 AM
Calculation Date:	7/31/2014 10:48:13 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.299	1197	Identified	65639	50.000
GRO	11.000	904	Identified	8.263E6	2.310
BFB	16.331	1377	Identified	68230	49.933

```
************************************************************
Revision Log
************************************************************

7/31/2014 10:36 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070514V 8260,624.mth'
7/31/2014 10:48 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070614v GRO.mth'
```

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıws\data\pending\070514v 8260 crv\100ng crv 7-5-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
100ng ccv	46076	7.99	67235	14.30	38329	17.90						

KSH 8/1/14

✓ NBS 8/1/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/31/2014 Time: 11:08

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/5/2014 7/5/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:12 20:12

Initial Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 7-31-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.967	0.100	100.00	95.32	4.7	30.0	PASS	PASS
Chloromethane	0.562	0.100	100.00	85.92	14.1	30.0	PASS	PASS
Vinyl chloride	1.676	0.100	100.00	98.06	1.9	20.0	PASS	PASS
Chloroethane	0.252	0.100	100.00	99.92	0.1	30.0	PASS	PASS
Bromomethane	1.271	0.100	100.00	117.23	-17.2	30.0	PASS	PASS
Trichlorofluoromethane	0.911	0.100	100.00	105.93	-5.9	30.0	PASS	PASS
1,1-Dichloroethene	1.336	0.100	100.00	111.38	-11.4	20.0	PASS	PASS
Acetone	0.516	0.100	200.00	166.06	17.0	40.0	PASS	PASS
Carbon disulfide	1.138	0.100	200.00	219.59	-9.8	40.0	PASS	PASS
Iodomethane	0.410	0.100	200.00	96.06	52.0	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.411	0.100	200.00	205.11	-2.6	30.0	PASS	PASS
Isopropyl ether	1.577	0.100	200.00	202.07	-1.0	40.0	PASS	PASS
tert-Butyl alcohol	0.321	0.100	2000.00	1810.41	9.5	40.0	PASS	PASS
trans-1,2-DCE	1.582	0.100	100.00	110.66	-10.7	30.0	PASS	PASS
tert-Butyl ethyl ether	3.119	0.100	200.00	220.61	-10.3	40.0	PASS	PASS
1,1-Dichloroethane	1.608	0.100	100.00	105.73	-5.7	30.0	PASS	PASS
Methylene Chloride	1.610	0.100	100.00	103.46	-3.5	30.0	PASS	PASS
Vinyl Acetate	2.535	0.100	200.00	274.08	-37.0	40.0	PASS	PASS
2,2-Dichloropropane	0.961	0.100	100.00	115.43	-15.4	30.0	PASS	PASS
2-Butanone	0.649	0.100	200.00	160.84	19.6	40.0	PASS	PASS
1,1,1-Trichloroethane	1.600	0.100	100.00	106.89	-6.9	30.0	PASS	PASS
tert-Amyl methyl ether	1.516	0.100	200.00	206.54	-3.3	40.0	PASS	PASS
1,1-Dichloropropene	0.748	0.100	100.00	110.86	-10.9	30.0	PASS	PASS
Carbon Tetrachloride	3.285	0.100	100.00	103.50	-3.5	30.0	PASS	PASS
cis-1,2-DCE	2.084	0.100	100.00	110.64	-10.6	30.0	PASS	PASS
Benzene	1.927	0.100	100.00	108.77	-8.8	30.0	PASS	PASS
Chloroform	1.325	0.100	100.00	111.27	-11.3	20.0	PASS	PASS
Bromochloromethane	0.487	0.100	100.00	113.62	-13.6	30.0	PASS	PASS
Trichloroethene (TCE)	1.314	0.100	100.00	112.59	-12.6	30.0	PASS	PASS
Dibromofluoromethane	1.635	0.100	50.00	48.62	2.8	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.505	0.100	50.00	46.95	6.1	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.767	0.100	100.00	106.39	-6.4	30.0	PASS	PASS
1,2-Dichloropropane	2.019	0.100	100.00	107.35	-7.3	20.0	PASS	PASS
4-Methyl-2-pentanone	2.183	0.100	200.00	201.89	-0.9	40.0	PASS	PASS
Toluene-d8	1.759	0.100	50.00	46.38	7.2	30.0	PASS	PASS

KJH 8/1/14

8/1/14

Analyst: KJH

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.755	0.100	100.00	108.30	-8.3	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.727	0.100	200.00	127.15	36.4	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.363	0.100	100.00	114.11	-14.1	30.0	PASS	PASS
cis-1,3-dichloropropene	2.192	0.100	100.00	104.64	-4.6	30.0	PASS	PASS
2-Hexanone	1.034	0.100	200.00	195.23	2.4	40.0	PASS	PASS
Bromodichloromethane	2.561	0.100	100.00	104.33	-4.3	30.0	PASS	PASS
Dibromomethane	1.262	0.100	100.00	109.63	-9.6	30.0	PASS	PASS
1,3-Dichloropropane	1.546	0.100	100.00	103.45	-3.5	30.0	PASS	PASS
trans-1,3-dichloropropene	0.857	0.100	100.00	106.34	-6.3	30.0	PASS	PASS
Ethylbenzene	3.012	0.100	100.00	105.49	-5.5	20.0	PASS	PASS
mp-Xylenes	2.830	0.100	200.00	212.73	-6.4	30.0	PASS	PASS
1,1,2-Trichloroethane	1.821	0.100	100.00	103.25	-3.3	30.0	PASS	PASS
Chlorobenzene	1.344	0.300	100.00	108.30	-8.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.507	0.100	100.00	102.44	-2.4	30.0	PASS	PASS
o-Xylene	2.776	0.100	100.00	106.16	-6.2	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.417	0.100	100.00	108.96	-9.0	30.0	PASS	PASS
Dibromochloromethane	1.389	0.100	100.00	109.20	-9.2	30.0	PASS	PASS
Isopropylbenzene	2.624	0.100	100.00	104.10	-4.1	30.0	PASS	PASS
Styrene	1.283	0.100	100.00	103.90	-3.9	30.0	PASS	PASS
n-Propylbenzene	6.072	0.100	100.00	103.14	-3.1	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.436	0.100	100.00	104.66	-4.7	30.0	PASS	PASS
tert-Butylbenzene	4.748	0.100	100.00	100.80	-0.8	30.0	PASS	PASS
2-Chlorotoluene	1.544	0.100	100.00	106.14	-6.1	30.0	PASS	PASS
4-Bromofluorobenzene	1.846	0.100	50.00	45.93	8.1	30.0	PASS	PASS
sec-Butylbenzene	2.889	0.100	100.00	78.37	21.6	30.0	PASS	PASS
4-Chlorotoluene	1.589	0.100	100.00	97.68	2.3	30.0	PASS	PASS
Bromobenzene	1.443	0.100	100.00	109.42	-9.4	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.535	0.100	100.00	100.43	-0.4	30.0	PASS	PASS
4-Isopropyltoluene	4.613	0.100	100.00	97.14	2.9	30.0	PASS	PASS
Bromoform	1.729	0.100	100.00	93.63	6.4	30.0	PASS	PASS
1,2,3-Trichloropropane	1.378	0.100	100.00	96.14	3.9	30.0	PASS	PASS
n-Butylbenzene	4.314	0.100	100.00	93.98	6.0	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.843	0.300	100.00	92.11	7.9	30.0	PASS	PASS
1,3-Dichlorobenzene	2.186	0.100	100.00	107.04	-7.0	30.0	PASS	PASS
1,4-Dichlorobenzene	2.070	0.100	100.00	103.41	-3.4	30.0	PASS	PASS
1,2-Dichlorobenzene	1.997	0.100	100.00	102.92	-2.9	30.0	PASS	PASS
Hexachlorobutadiene	3.959	0.100	100.00	86.66	13.3	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.808	0.100	100.00	90.56	9.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.591	0.100	100.00	103.63	-3.6	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.604	0.100	100.00	101.14	-1.1	30.0	PASS	PASS
Naphthalene	3.061	0.100	100.00	93.88	6.1	30.0	PASS	PASS
2-Methylnaphthalene	2.360	0.100	100.00	94.21	5.8	40.0	PASS	PASS
1-Methylnaphthalene	2.215	0.100	100.00	93.24	6.8	40.0	PASS	PASS

KSH 8/11/14

✓ NB 8/11/14

Analyst: KJH

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407D63**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407D63

Lab ID: 1407D63-001
Client Sample ID: FFOR-CF-0038

Collection Date: 07/29/14 8:55:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD DUE 08/04/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Aniline	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Benz(a)anthracene	0.23	0.44	J	mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Benzo(a)pyrene	0.15	0.44	J	mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Benzo(b)fluoranthene	0.23	0.44	J	mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Benzo(g,h,i)perylene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Chrysene	0.14	0.44	J	mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Di-n-octyl phthalate	ND	0.88		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4-Dichlorophenol	ND	0.88		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4-Dimethylphenol	ND	0.66		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: MS/MSD DUE 08/04/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Indeno(1,2,3-cd)pyrene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Methylnaphthalene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Naphthalene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Nitroaniline	ND	0.88		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
4-Nitrophenol	ND	0.55		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Pentachlorophenol	ND	0.88		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Phenol	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Pyrene	0.16	0.44	J	mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
2,4,6-Trichlorophenol	~~1.7~~ NF	0.44		mg/Kg-dry	1	14505	07/31/14 3:47:10 PM
Surr: 2-Fluorophenol	87.9	21-111		%REC	1	14505	07/31/14 3:47:10 PM
Surr: Phenol-d5	82.7	23.1-117		%REC	1	14505	07/31/14 3:47:10 PM
Surr: 2,4,6-Tribromophenol	91.7	22.7-88.9	S	%REC	1	14505	07/31/14 3:47:10 PM
Surr: Nitrobenzene-d5	91.8	24.5-126		%REC	1	14505	07/31/14 3:47:10 PM
Surr: 2-Fluorobiphenyl	94.0	21.2-129		%REC	1	14505	07/31/14 3:47:10 PM
Surr: 4-Terphenyl-d14	84.2	39.4-107		%REC	1	14505	07/31/14 3:47:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-002
Client Sample ID: FFOR-CF-0039
Collection Date: 07/29/14 9:04:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Aniline	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Anthracene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Benz(a)anthracene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Benzo(a)pyrene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Benzo(b)fluoranthene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Benzo(g,h,i)perylene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Bis(2-ethylhexyl)phthalate	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Carbazole	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Chloro-3-methylphenol	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Chloroaniline	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Chloronaphthalene	ND	0.29		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Chrysene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Di-n-butyl phthalate	0.055	0.58	J	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Di-n-octyl phthalate	ND	0.46		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Dibenz(a,h)anthracene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Dibenzofuran	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
3,3'-Dichlorobenzidine	ND	0.29		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4-Dichlorophenol	ND	0.46		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4-Dimethylphenol	ND	0.35		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4,6-Dinitro-2-methylphenol	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4-Dinitrophenol	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4-Dinitrotoluene	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,6-Dinitrotoluene	ND	0.58		mg/Kg-dry	1	14505	07/31/14 5:14:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: DUE 08/04/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Fluorene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Hexachlorobenzene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Hexachlorobutadiene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Hexachlorocyclopentadiene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Hexachloroethane	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Isophorone	ND	0.58	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Methylnaphthalene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Methylphenol	ND	0.58	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
3+4-Methylphenol	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
N-Nitrosodi-n-propylamine	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
N-Nitrosodimethylamine	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
N-Nitrosodiphenylamine	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Naphthalene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Nitroaniline	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
3-Nitroaniline	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Nitroaniline	ND	0.46	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Nitrobenzene	ND	0.58	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2-Nitrophenol	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
4-Nitrophenol	ND	0.29	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Pentachlorophenol	ND	0.46	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Phenanthrene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Phenol	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Pyrene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Pyridine	ND	0.58	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4,5-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
2,4,6-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14505	07/31/14 5:14:41 PM
Surr: 2-Fluorophenol	76.9	21-111	%REC	1	14505	07/31/14 5:14:41 PM
Surr: Phenol-d5	77.2	23.1-117	%REC	1	14505	07/31/14 5:14:41 PM
Surr: 2,4,6-Tribromophenol	77.1	22.7-88.9	%REC	1	14505	07/31/14 5:14:41 PM
Surr: Nitrobenzene-d5	79.6	24.5-126	%REC	1	14505	07/31/14 5:14:41 PM
Surr: 2-Fluorobiphenyl	76.4	21.2-129	%REC	1	14505	07/31/14 5:14:41 PM
Surr: 4-Terphenyl-d14	77.1	39.4-107	%REC	1	14505	07/31/14 5:14:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-003
Client Sample ID: FFOR-CF-0040
Collection Date: 07/29/14 9:11:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/04/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Acenaphthylene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Aniline	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Anthracene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Benz(a)anthracene	0.22	0.45	J	mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Benzo(a)pyrene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Benzo(b)fluoranthene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Benzo(g,h,i)perylene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Benzo(k)fluoranthene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Bis(2-chloroethoxy)methane	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Bis(2-chloroethyl)ether	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Bis(2-chloroisopropyl)ether	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Bromophenyl phenyl ether	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Butyl benzyl phthalate	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Carbazole	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Chloronaphthalene	ND	0.56		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Chlorophenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Chlorophenyl phenyl ether	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Chrysene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Di-n-octyl phthalate	ND	0.89		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Dibenz(a,h)anthracene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Dibenzofuran	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
1,2-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
1,3-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
1,4-Dichlorobenzene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
3,3'-Dichlorobenzidine	ND	0.56		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Diethyl phthalate	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Dimethyl phthalate	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4-Dichlorophenol	ND	0.89		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4-Dimethylphenol	ND	0.67		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Comment: DUE 08/04/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Fluorene	0.15	0.45	J	mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Hexachlorobenzene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Hexachlorobutadiene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Hexachlorocyclopentadiene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Hexachloroethane	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Indeno(1,2,3-cd)pyrene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Methylnaphthalene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
3+4-Methylphenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
N-Nitrosodi-n-propylamine	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
N-Nitrosodimethylamine	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
N-Nitrosodiphenylamine	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Naphthalene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Nitroaniline	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
3-Nitroaniline	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Nitroaniline	ND	0.89		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2-Nitrophenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
4-Nitrophenol	ND	0.56		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Pentachlorophenol	ND	0.89		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Phenanthrene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Phenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Pyrene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
1,2,4-Trichlorobenzene	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4,5-Trichlorophenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
2,4,6-Trichlorophenol	ND	0.45		mg/Kg-dry	1	14505	07/31/14 5:43:43 PM
Surr: 2-Fluorophenol	82.6	21-111		%REC	1	14505	07/31/14 5:43:43 PM
Surr: Phenol-d5	83.9	23.1-117		%REC	1	14505	07/31/14 5:43:43 PM
Surr: 2,4,6-Tribromophenol	106	22.7-88.9	S	%REC	1	14505	07/31/14 5:43:43 PM
Surr: Nitrobenzene-d5	0	24.5-126	S	%REC	1	14505	07/31/14 5:43:43 PM
Surr: 2-Fluorobiphenyl	89.0	21.2-129		%REC	1	14505	07/31/14 5:43:43 PM
Surr: 4-Terphenyl-d14	92.1	39.4-107		%REC	1	14505	07/31/14 5:43:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Time Started: 12:00
Time Ended: 6:50

PREP BATCH REPORT

Prep Start Date: 7/30/2014 10:46:14
Prep End Date:

Extraction Method 3540

Reviewed By: dam 7/31/14

Prep Batch ID: **14505** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14505	SC 7-30	Soil			30	0	0	1	0.033	7/30/2014	
LCS-14505		Soil			30	0	0	1	0.033	7/30/2014	
1407D63-001A	FFOR-CF-0038	MeOH (Soil)			~~30~~ 29.37	0	0	1	0.033	7/30/2014	7.31.14
1407D63-001AMS		MeOH (Soil)			~~30~~ 30	0	0	1	0.033	7/30/2014	
1407D63-001AMSD		MeOH (Soil)			~~30~~ 29.98	0	0	1	0.033	7/30/2014	DUM 4686
1407D63-002A	FFOR-CF-0039	MeOH (Soil)			~~30~~ 29.60	0	0	1	0.033	7/30/2014	
1407D63-003A	FFOR-CF-0040	MeOH (Soil)			~~30~~ 29.68	0	0	1	0.033	7/30/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC 7-30	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 dam 7/31	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 SC 7-30	µL

Varian Star Workstation - 8400 SampleList Thu Jul 31 14:15:56 2014

SampleList: C:\VarianWS\073114.smp

Created: Thu Jul 31 08:51:07 2014
Modified: Thu Jul 31 14:15:51 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm LL	1	below	1	1.0
	Notes sv110-0562				
3	50ppm	1	below	2	1.0
	Notes sv110-0594				
4	mb-14521	1	below	3	1.0
	Notes x1 LL w				
5	lcs-14521	1	below	4	1.0
	Notes x1 LL w				
6	1407c62-001d	1	below	5	1.0
	Notes x1 LL w				
7	1407c62-001dms	1	below	6	1.0
	Notes x1 LL w				
8	1407c62-001dmsd	1	below	7	1.0
	Notes x1 LL w				
9	1407c62-005d	1	below	8	1.0
	Notes x1 LL w				
10	1407d09-001c	1	below	9	1.0
	Notes x1 LL w				
11	1407c62-003d	1	below	10	1.0
	Notes x1 LL w				
12					
13	mb-14505	1	below	11	1.0
	Notes x1 soil				
14	lcs-14505	1	below	12	1.0
	Notes x1 soil				
15	1407d63-001a	1	below	13	1.0
	Notes x1 soil fv=~~10ml~~ 2ml				
16	1407d63-001ams	1	below	14	1.0
	Notes x1 soil fv=~~10ml~~ 2ml				
17	1407d63-001amsd	1	below		1.0
	Notes x1 soil fv=~~10ml~~ 2ml			15	
18	1407d63-002a	1	below		1.0
	Notes x1 soil				
19	1407d63-003a	1	below	16	1.0
	Notes x1 soil fv=~~10ml~~ 2ml				
20	mb-14520	1	below	18	1.0
	Notes x1 AQ				
21	lcs-14520	1	below	19	1.0
	Notes x1 AQ				
22	lcsd-14520	1	below	20	1.0
	Notes x1 AQ				
23	1407e23-001a	1	below	21	1.0
	Notes x1 AQ				
24	1407d12-001d	1	below	22	1.0
	Notes x10 AQ fv=10mL				
25	1407d12-001d	1	below	23	1.0
	Notes r1				
26	rb-8270	1	below	24	1.0
	Notes blank				
27					

dam 7/31/14

dam 8/1/14

JC 8.1.14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\073114.rcl.

8270C

Calibration Summary

Instrument: ELMO

Date: 4/25/14

Calibration Name: 8270 042514. mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

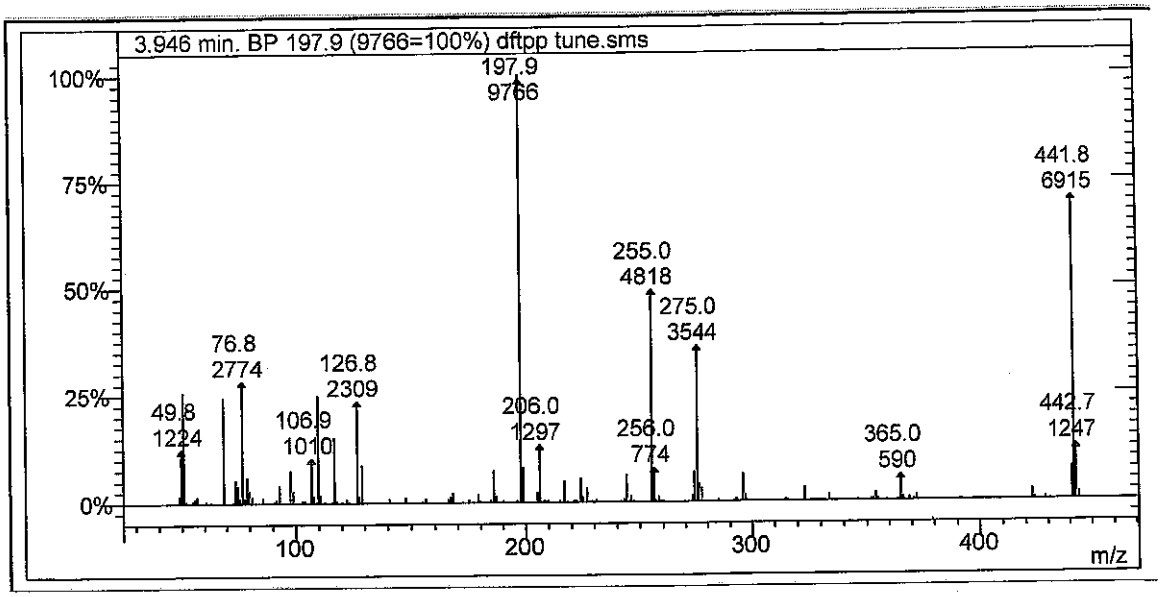
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/31/2014

Injection Time: 10:30

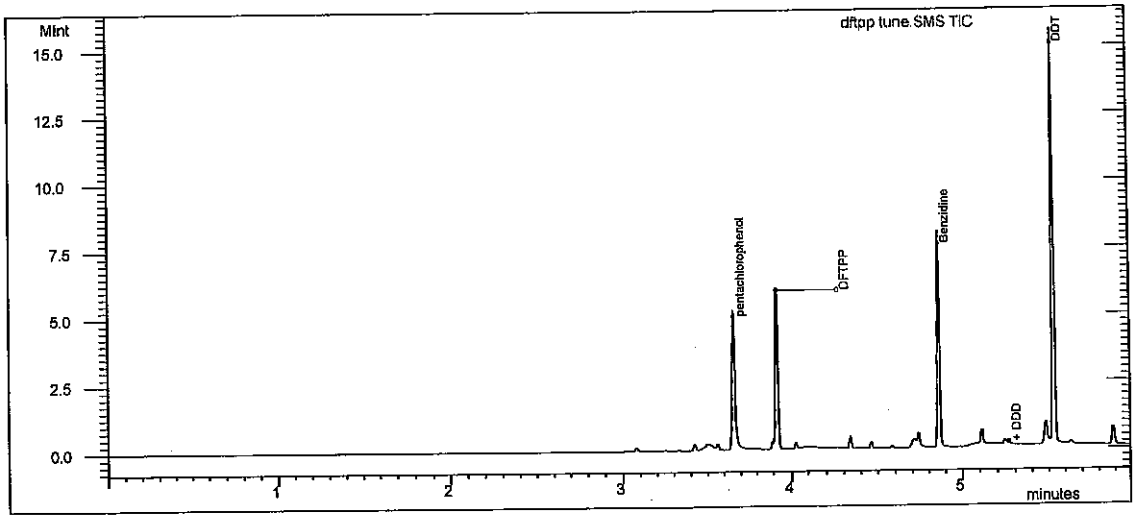
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	25.70	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	24.45	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	23.64	PASS
197	<2% of m/z 198	0.07	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.14	PASS
275	10-60% of base peak	36.29	PASS
365	>1% of base peak	6.04	PASS
441	Present and <m/z 443	59.26	PASS
442	>50% of m/z 198	70.81	PASS
443	15-24% of m/z 442	18.03	PASS

dlm 8/1/14

JV 8-1-14

Degradation Report

Acquisition Date:	7/31/2014 10:30:58 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.533	3.685E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.265	19262	5
DDE	4.984	1471	6

% Degradation of DDT: = .56

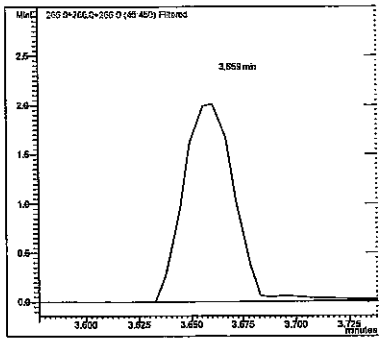
dam 8/1/14

8.1.14

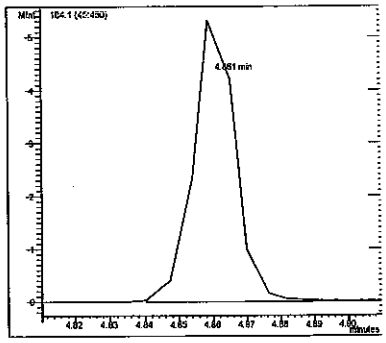
Tailing and Gaussian Factor Report

Acquisition Date:	7/31/2014 10:30:58 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.659 Area = 3.498E6



Benzidine
RT = 4.861 Area = 4.629E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.659	1.647	0.886
Benzidine	4.861	1.342	0.922

✓ dam 8/1/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.659	3.498E6
3	Benzidine	4.861	4.629E6

JW 8.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm	176466	5.18	588841	6.91	272132	9.51	510068	11.75	525959	15.77	646092	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 8/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC 8-1-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\073114\50ppm.SMS Lab Sample ID: 50ppm

Instrument ID: ELMO Date Analyzed: 7/31/2014 Time Analyzed: 11:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	176466	5.18	588841	6.91	272132	9.51	510068	11.75	525959	15.77	646092	17.92
UPPER LIMIT	352932	5.68	1.178E6	7.41	544264	10.01	1.020E6	12.25	1.052E6	16.27	1.292E6	18.42
LOWER LIMIT	88233	4.68	294421	6.41	136066	9.01	255034	11.25	262980	15.27	323046	17.42
EPA SAMPLE NO												
mb-14505	107081	5.18	362914	6.91	178441	9.50	327838	11.75	388401	15.77	477314	17.92
lcs-14505	96330	5.18	319030	6.90	150987	9.50	284999	11.75	350313	15.77	403205	17.92
1407d63-00	91656	5.18	327172	6.91	160716	9.50	289666	11.75	319661	15.77	385017	17.92
1407d63-00	97940	5.19	337411	6.91	165974	9.51	281046	11.75	315148	15.77	380780	17.92
1407d63-00	87311 *	5.18	305446	6.90	147619	9.50	270289	11.75	299116	15.77	370839	17.92
1407d63-00	85906 *	5.19	300497	6.90	147969	9.50	270542	11.75	321099	15.77	385359	17.92
1407d63-00	86341 D	5.19 D	298014 D	6.91 D	168767 D	9.50 D	277037	11.75	311742	15.76	373881	17.91
mb-14520	99141	5.19	337188	6.91	155455	9.50	321284	11.75	315590	15.77	380755	17.92
lcs-14520	91658	5.19	295301	6.91	137645	9.50	275944	11.75	310876	15.77	375925	17.92
lcsd-14520	88703	5.18	296329	6.90	142604	9.50	274959	11.75	322468	15.76	389601	17.92
1407e23-00	102650	5.18	336156	6.90	155705	9.50	263998	11.75	300443	15.76	366419	17.92
1407d12-00	87860 *	5.18	297633	6.90	143892	9.50	255033 *	11.74	269455	15.76	312307 *	17.91
1407d12-00	56732 *	5.19	195396 *	6.90	92936 *	9.50	169899 *	11.75	180410 *	15.76	215675 *	17.92
rb-8270	122499	5.18	414199	6.90	215220	9.50	428451	11.75	410698	15.76	531412	17.91

& NMR dam 7/31 dam 8/1/14

JU 8.1.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/31/2014 Time: 11:09

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.390	0.050	50.00	56.34	-12.7	40.0	PASS	PASS
Pyridine	10.615	0.050	50.00	58.48	-17.0	40.0	PASS	PASS
2-Fluorophenol	1.098	0.050	50.00	47.86	4.3	40.0	PASS	PASS
Phenol-d5	1.109	0.050	50.00	50.80	-1.6	40.0	PASS	PASS
Phenol	1.138	0.050	50.00	46.36	7.3	20.0	PASS	PASS
Aniline	3.433	0.050	50.00	41.94	16.1	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.992	0.050	50.00	49.62	0.8	40.0	PASS	PASS
2-Chlorophenol	1.186	0.050	50.00	49.57	0.9	40.0	PASS	PASS
1,3-Dichlorobenzene	1.443	0.050	50.00	47.84	4.3	40.0	PASS	PASS
1,4-Dichlorobenzene	1.434	0.050	50.00	50.26	-0.5	20.0	PASS	PASS
Benzyl alcohol	1.147	0.050	50.00	51.26	-2.5	40.0	PASS	PASS
1,2-Dichlorobenzene	1.389	0.050	50.00	49.34	1.3	40.0	PASS	PASS
2-Methylphenol	0.960	0.050	50.00	49.17	1.7	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.257	0.050	50.00	44.71	10.6	40.0	PASS	PASS
3+4-Methylphenol	1.049	0.050	50.00	42.65	14.7	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.347	0.050	50.00	47.27	5.5	40.0	PASS	PASS
Hexachloroethane	4.701	0.050	50.00	50.73	-1.5	40.0	PASS	PASS
Nitrobenzene-d5	0.296	0.050	50.00	48.02	4.0	40.0	PASS	PASS
Nitrobenzene	0.317	0.050	50.00	50.04	-0.1	40.0	PASS	PASS
Isophorone	0.615	0.050	50.00	52.49	-5.0	40.0	PASS	PASS
2-Nitrophenol	0.314	0.050	50.00	50.63	-1.3	20.0	PASS	PASS
2,4-Dimethylphenol	0.338	0.050	50.00	46.31	7.4	40.0	PASS	PASS
Benzoic acid	2.832	0.050	50.00	63.35	-26.7	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.383	0.050	50.00	52.91	-5.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.334	0.050	50.00	47.24	5.5	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.308	0.050	50.00	47.10	5.8	40.0	PASS	PASS
Naphthalene	0.816	0.050	50.00	49.15	1.7	40.0	PASS	PASS
4-Chloroaniline	0.393	0.050	50.00	50.75	-1.5	40.0	PASS	PASS
Hexachlorobutadiene	0.605	0.050	50.00	45.46	9.1	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.403	0.050	50.00	48.03	3.9	20.0	PASS	PASS
2-Methylnaphthalene	0.221	0.050	50.00	43.79	12.4	40.0	PASS	PASS
1-Methylnaphthalene	0.219	0.050	50.00	42.67	14.7	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.423	0.050	50.00	42.12	15.8	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.315	0.050	50.00	44.06	11.9	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.293	0.050	50.00	44.05	11.9	40.0	PASS	PASS
2-Fluorobiphenyl	1.458	0.050	50.00	47.54	4.9	40.0	PASS	PASS

dm 8/1/14

JC 8-1-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.518	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Nitroaniline	1.078	0.050	50.00	48.33	3.3	40.0	PASS	PASS
Dimethyl phthalate	2.956	0.050	50.00	51.36	-2.7	40.0	PASS	PASS
2,6-Dinitrotoluene	0.699	0.050	50.00	50.62	-1.2	40.0	PASS	PASS
Acenaphthylene	1.843	0.050	50.00	47.30	5.4	40.0	PASS	PASS
3-Nitroaniline	1.065	0.050	50.00	48.94	2.1	40.0	PASS	PASS
Acenaphthene	1.223	0.050	50.00	48.41	3.2	20.0	PASS	PASS
2,4-Dinitrophenol	2.802	0.050	50.00	65.26	-30.5	40.0	PASS	PASS
4-Nitrophenol	0.201	0.050	50.00	52.08	-4.2	40.0	PASS	PASS
Dibenzofuran	0.775	0.050	50.00	42.18	15.6	40.0	PASS	PASS
2,4-Dinitrotoluene	0.351	0.050	50.00	47.59	4.8	40.0	PASS	PASS
Diethyl phthalate	2.440	0.050	50.00	48.38	3.2	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.658	0.050	50.00	39.26	21.5	40.0	PASS	PASS
Fluorene	2.359	0.050	50.00	45.40	9.2	40.0	PASS	PASS
4-Nitroaniline	1.828	0.050	50.00	47.35	5.3	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.673	0.050	50.00	66.65	-33.3	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.688	0.050	50.00	51.63	-3.3	20.0	PASS	PASS
Azobenzene	0.972	0.050	50.00	51.84	-3.7	40.0	PASS	PASS
2,4,6-Tribromophenol	1.657	0.050	50.00	50.01	0.0	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.501	0.050	50.00	49.03	1.9	40.0	PASS	PASS
Hexachlorobenzene	0.551	0.050	50.00	49.87	0.3	40.0	PASS	PASS
Pentachlorophenol	1.534	0.050	50.00	54.00	-8.0	20.0	PASS	PASS
Phenanthrene	0.952	0.050	50.00	49.51	1.0	40.0	PASS	PASS
Anthracene	0.989	0.050	50.00	50.78	-1.6	40.0	PASS	PASS
Carbazole	0.878	0.050	50.00	46.27	7.5	40.0	PASS	PASS
Di-n-butyl phthalate	2.028	0.050	50.00	50.45	-0.9	40.0	PASS	PASS
Fluoranthene	0.899	0.050	50.00	48.24	3.5	20.0	PASS	PASS
Benzidine	0.412	0.050	50.00	37.66	24.7	40.0	PASS	PASS
Pyrene	0.834	0.050	50.00	50.00	0.0	40.0	PASS	PASS
4-Terphenyl-d14	1.047	0.050	50.00	43.92	12.2	40.0	PASS	PASS
Butyl benzyl phthalate	0.950	0.050	50.00	50.09	-0.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.833	0.050	50.00	47.85	4.3	40.0	PASS	PASS
Benz[a]anthracene	1.609	0.050	50.00	44.55	10.9	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.865	0.050	50.00	36.61	26.8	40.0	PASS	PASS
Chrysene	2.073	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Di-n-octyl phthalate	2.380	0.050	50.00	50.10	-0.2	20.0	PASS	PASS
Benzo(b)fluoranthene	1.512	0.050	50.00	52.26	-4.5	40.0	PASS	PASS
Benzo[k]fluoranthene	1.591	0.050	50.00	54.74	-9.5	40.0	PASS	PASS
Benzo[a]pyrene	1.508	0.050	50.00	54.91	-9.8	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.857	0.050	50.00	49.25	1.5	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.859	0.050	50.00	58.95	-17.9	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.823	0.050	50.00	48.48	3.0	40.0	PASS	PASS

dm 8/1/14

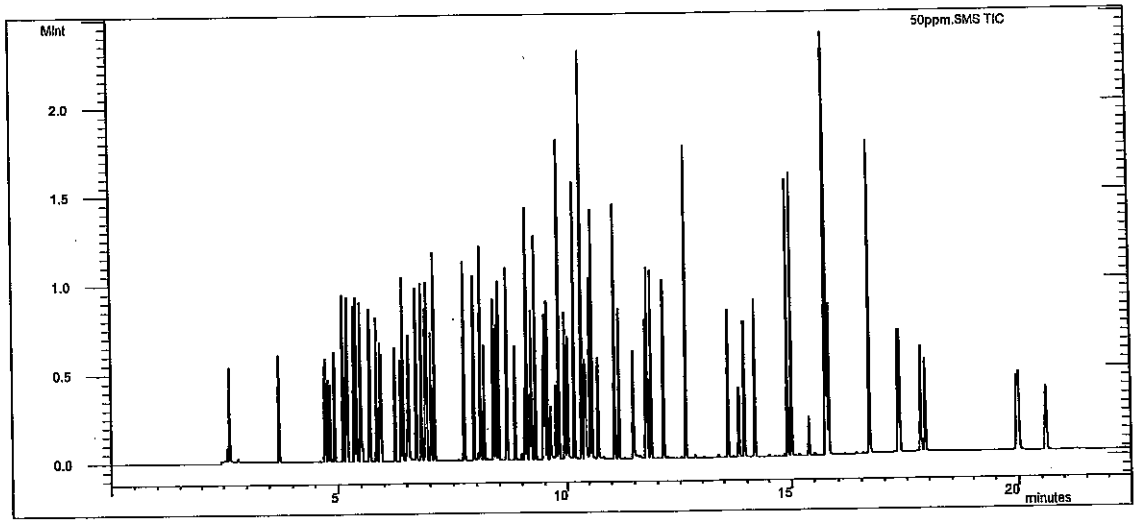
8-5-14

8270C Report

Sample Name: 50ppm **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 042514.mth **Inj. Notes:** sv110-0594 **Acquisition Date:** 7/31/2014 11:09:15 AM

Calculation Date: 7/31/2014 11:31:45 AM



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.182	426	Identified	176466	40.000
Naphthalene-d8 (I.S)	6.907	603	Identified	588841	40.000
Acenaphthene-d10 (I.S)	9.505	867	Identified	272132	40.000
Phenanthrene-d10	11.753	1099	Identified	510068	40.000
Chrysene-d12 I.S	15.772	1511	Identified	525959	40.000
Perylene-d12 I.S	17.922	1738	Identified	646092	40.000
N-nitrosodimethylamine	2.594	164	Identified	747804	56.338
Pyridine	2.639	168	Identified	2.341E6	58.479
2-Fluorophenol	3.708	277	Identified	242202	47.857
Phenol-d5	4.714	378	Identified	244690	50.798
Phenol	4.729	380	Identified	251117	46.365
Aniline	4.784	386	Identified	757281	41.935
Bis(2-chloroethyl)ether	4.836	391	Identified	439497	49.620
2-Chlorophenol	4.927	400	Identified	261618	49.571
1,3-Dichlorobenzene	5.112	419	Identified	318300	47.842
1,4-Dichlorobenzene	5.205	429	Identified	316395	50.264
Benzyl alcohol	5.349	443	Identified	253001	51.255
1,2-Dichlorobenzene	5.402	449	Identified	306325	49.344
2-Methylphenol	5.489	458	Identified	211704	49.174
Bis(2-chloroisopropyl)ether	5.507	460	Identified	277348	44.712
3+4-Methylphenol	5.694	479	Identified	231474	42.649
N-Nitrosodi-n-propylamine	5.684	478	Identified	738321	47.269
Hexachloroethane	5.839	493	Identified	1.037E6	50.731
Nitrobenzene-d5	5.913	501	Identified	217928	48.018

8/1/14

8/6/14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.939	504	Identified	233168	50.042
Isophorone	6.245	535	Identified	452424	52.491
2-Nitrophenol	6.372	547	Identified	231276	50.626
2,4-Dimethylphenol	6.420	552	Identified	248834	46.311
Benzoic acid	6.527	563	Identified	2.084E6	63.348
Bis(2-chloroethoxy)methane	6.547	565	Identified	281983	52.910
2,4-Dichlorophenol	6.707	582	Identified	245755	47.239
1,2,4-Trichlorobenzene	6.822	594	Identified	226888	47.099
Naphthalene	6.937	606	Identified	600680	49.145
4-Chloroaniline	7.026	615	Identified	289564	50.746
Hexachlorobutadiene	7.096	622	Identified	445271	45.465
4-Chloro-3-methylphenol	7.738	687	Identified	296325	48.029
2-Methylnaphthalene	7.942	708	Failed	162418	43.787
1-Methylnaphthalene	8.091	723	Failed	161193	42.669
Hexachlorocyclopentadiene	8.167	731	Identified	311106	42.118
2,4,6-Trichlorophenol	8.373	752	Failed	107270	44.061
2,4,5-Trichlorophenol	8.430	758	Identified	99561	44.052
2-Fluorobiphenyl	8.489	764	Identified	495827	47.543
2-Chloronaphthalene	8.669	782	Identified	516357	48.513
2-Nitroaniline	8.848	800	Identified	366683	48.327
Dimethyl phthalate	9.105	827	Identified	1.005E6	51.357
2,6-Dinitrotoluene	9.210	837	Identified	237676	50.622
Acenaphthylene	9.295	846	Identified	626973	47.296
3-Nitroaniline	9.471	864	Identified	362411	48.941
Acenaphthene	9.556	873	Identified	416080	48.412
2,4-Dinitrophenol	9.621	879	Identified	953176	65.260
4-Nitrophenol	9.752	893	Identified	68520	52.081
Dibenzofuran	9.815	899	Identified	263592	42.182
2,4-Dinitrotoluene	9.816	900	Identified	119468	47.590
Diethyl phthalate	10.163	935	Identified	829972	48.383
4-Chlorophenyl phenyl ether	10.331	953	Identified	223894	39.256
Fluorene	10.332	953	Identified	802597	45.401
4-Nitroaniline	10.399	960	Identified	621885	47.353
4,6-Dinitro-2-methylphenol	10.429	963	Identified	1.067E6	66.651
N-Nitrosodiphenylamine	10.522	973	Identified	438834	51.626
Azobenzene	10.573	978	Identified	619822	51.841
2,4,6-Tribromophenol	10.706	992	Identified	1.057E6	50.013
4-Bromophenyl phenyl ether	11.071	1029	Failed	319172	49.027
Hexachlorobenzene	11.161	1038	Identified	351451	49.870
Pentachlorophenol	11.477	1070	Identified	978136	53.996
Phenanthrene	11.788	1103	Identified	607054	49.507
Anthracene	11.866	1111	Identified	630257	50.777
Carbazole	12.131	1138	Identified	559625	46.270
Di-n-butyl phthalate	12.632	1189	Identified	1.293E6	50.450
Fluoranthene	13.595	1287	Identified	572916	48.238
Benzidine	13.829	1311	Identified	271149	37.658
Pyrene	13.942	1322	Identified	548474	49.995
4-Terphenyl-d14	14.175	1346	Identified	688461	43.916
Butyl benzyl phthalate	14.915	1422	Identified	624338	50.086
3,3'-Dichlorobenzidine	15.742	1508	Identified	1.205E6	47.854

Operator: David Melius
Inj. Notes: sv110-0594

x = ✓ spec 54.144

50ppm.SMS
7/31/2014 11:32

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.756	1509	Identified	1.058E6	44.545
Bis(2-ethylhexyl)phthalate	15.756	1509	Identified	568679	36.606
Chrysene	15.811	1515	Identified	1.363E6	49.862
Di-n-octyl phthalate	16.687	1607	Identified	1.565E6	50.104
Benzo(b)fluoranthene	17.307	1673	Identified	1.221E6	52.263
Benzo[k]fluoranthene	17.348	1677	Identified	1.285E6	54.744
Benzo[a]pyrene	17.826	1728	Identified	1.218E6	54.911
Indeno[1,2,3-cd]pyrene	19.964	1954	Identified	692037	49.253
Dibenz[a,h]anthracene	20.002	1958	Failed	693394	58.953
Benzo[g,h,i]perylene	20.594	2020	Identified	664721	48.484

****
Revision Log
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7/31/2014 11:31 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

an Star Workstation - 8400 SampleList Mon Apr 28 10:41:20 2014

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam 4/28/14

TC 4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

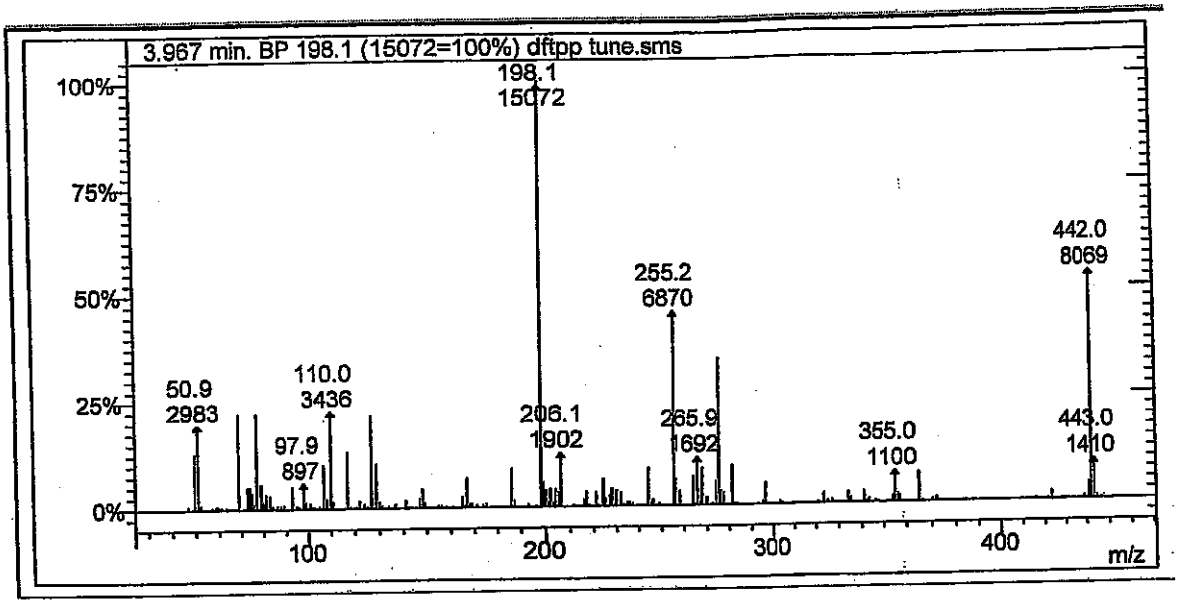
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\eimo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

dam 4/28/14

JV 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

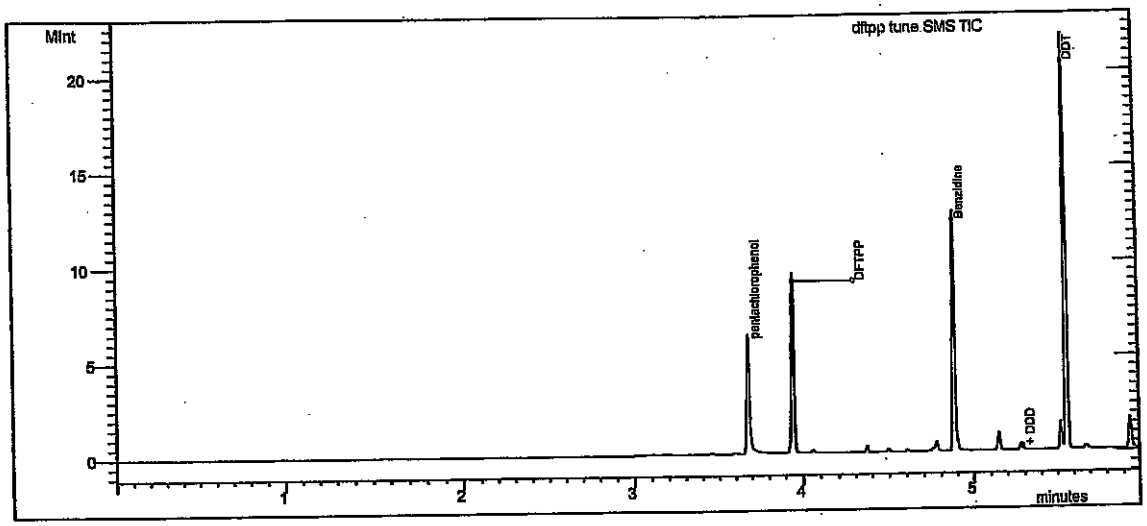
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Mellus
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

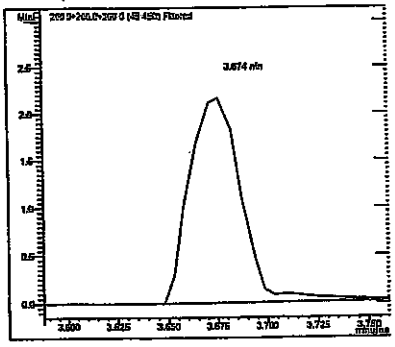
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

TC 4-28-14

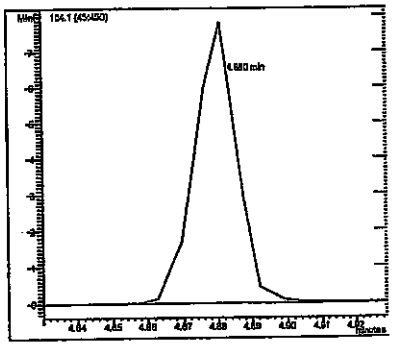
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dlm 4/28/14

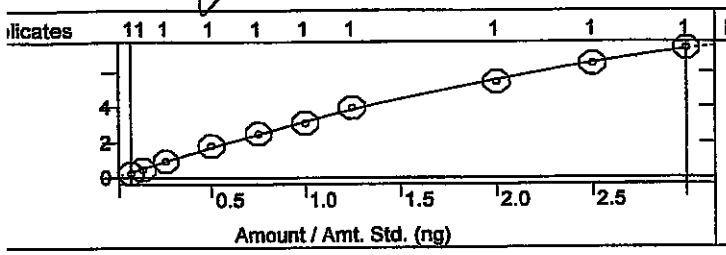
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

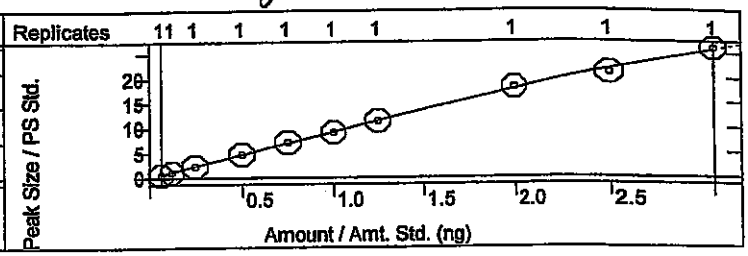
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

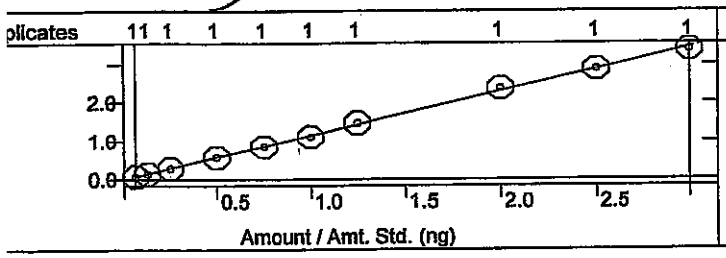
nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



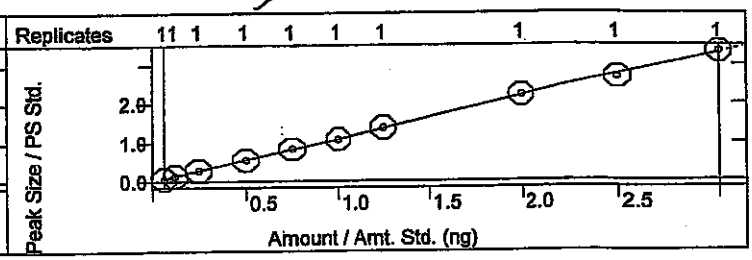
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



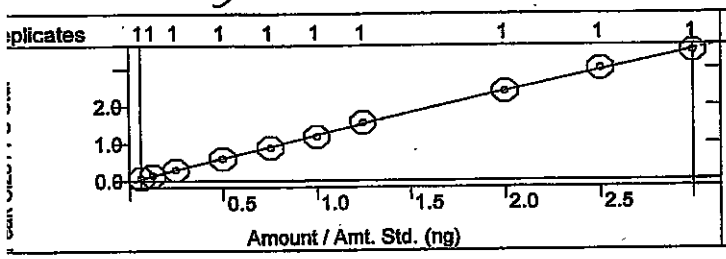
Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



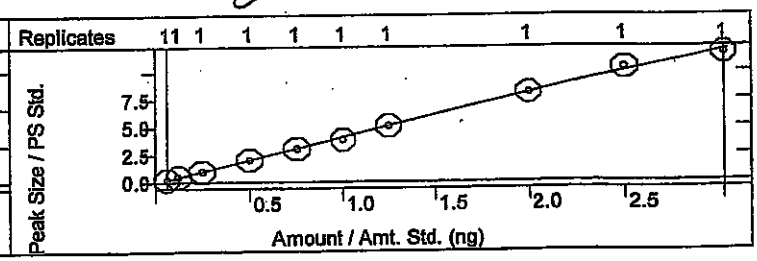
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



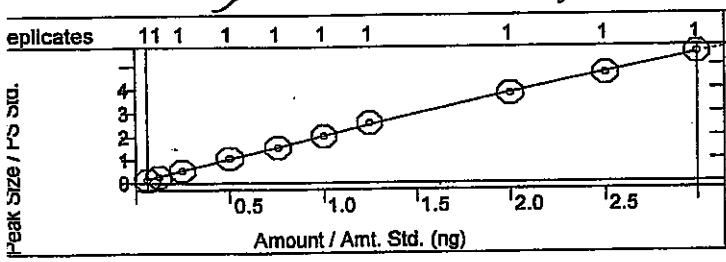
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



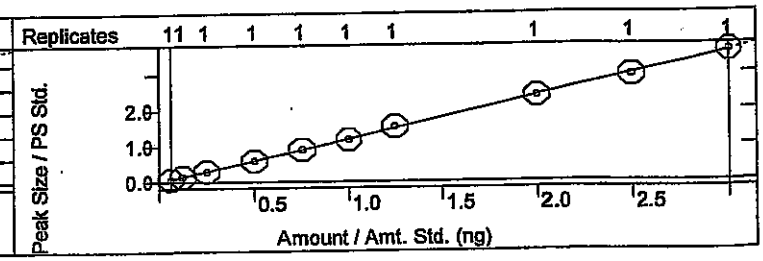
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242



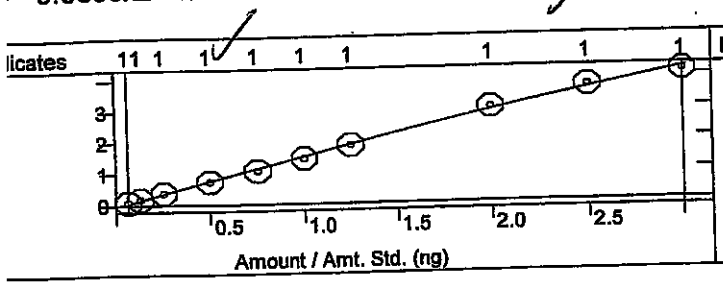
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



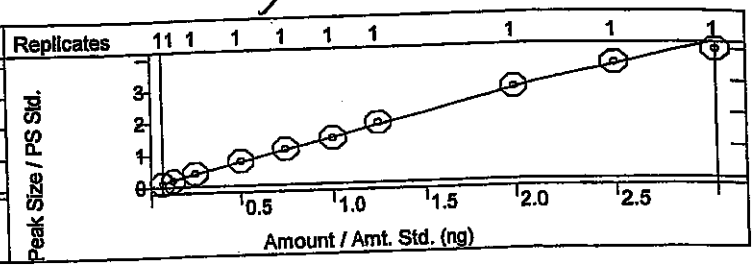
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
alc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
luence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

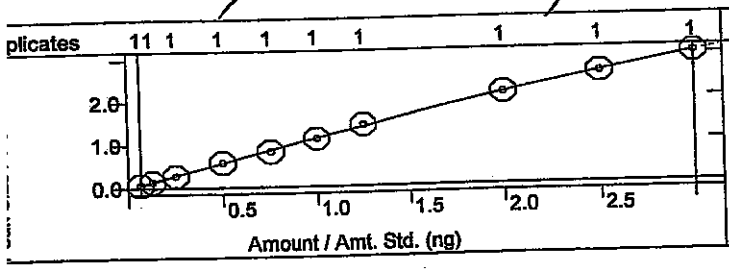
-Dichlorobenzene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
: -0.0693x2 +1.6278x -0.0442



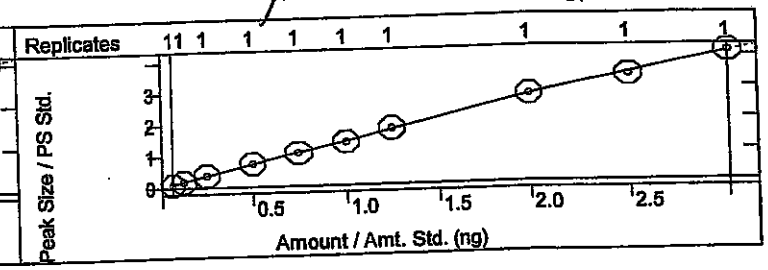
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



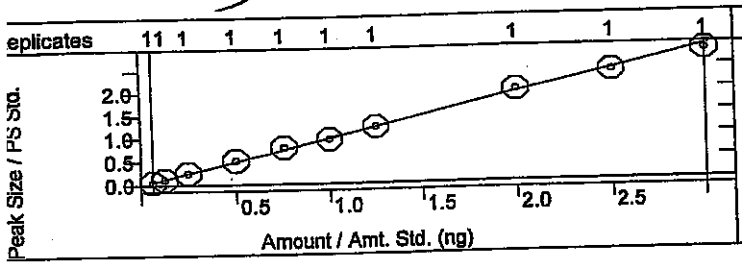
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



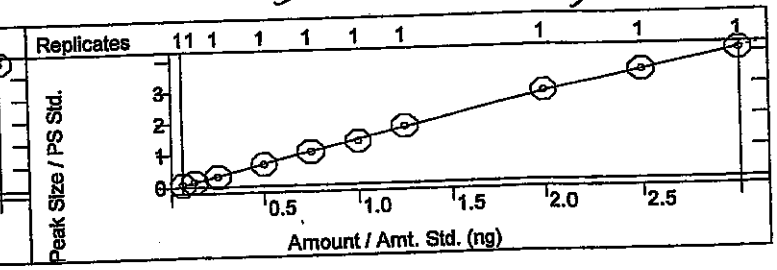
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



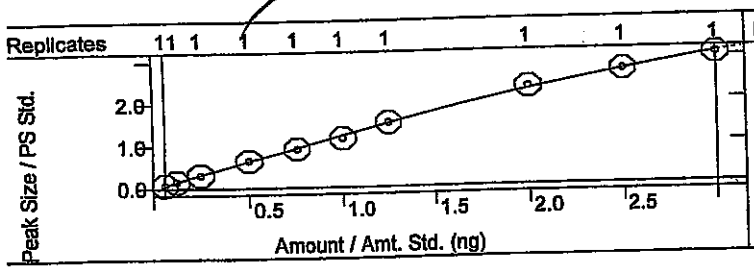
-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



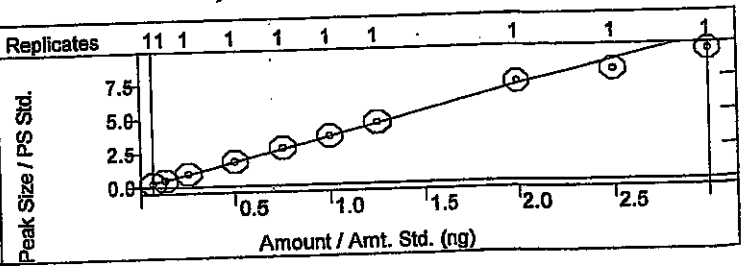
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



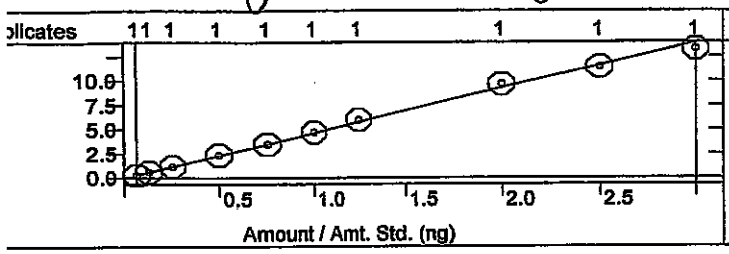
alibration Curves Report

I dam 4/28/14

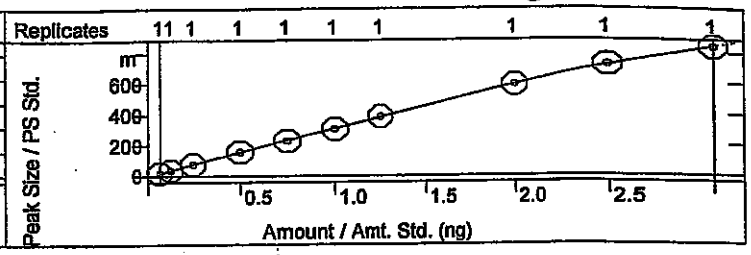
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

4/28/14

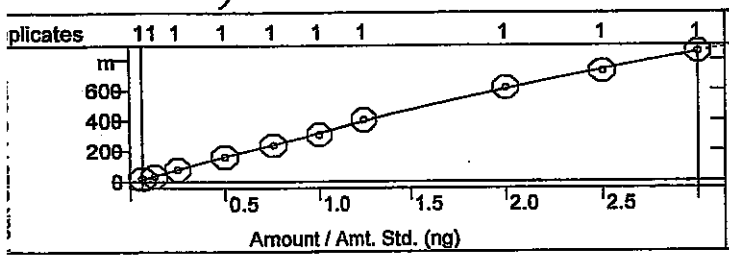
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



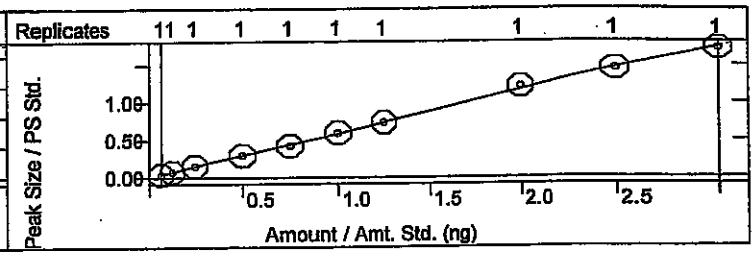
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



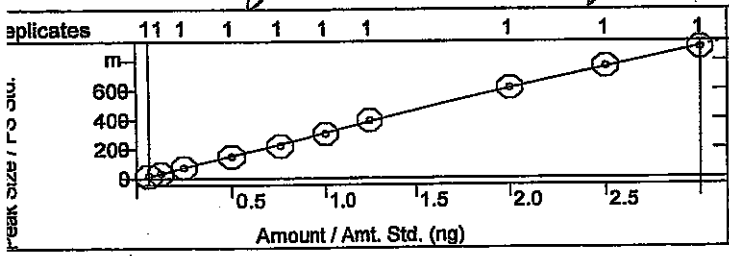
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



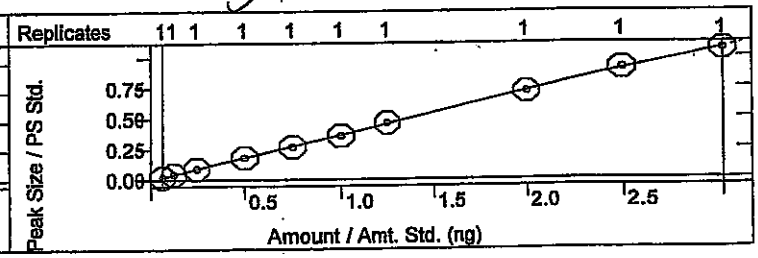
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



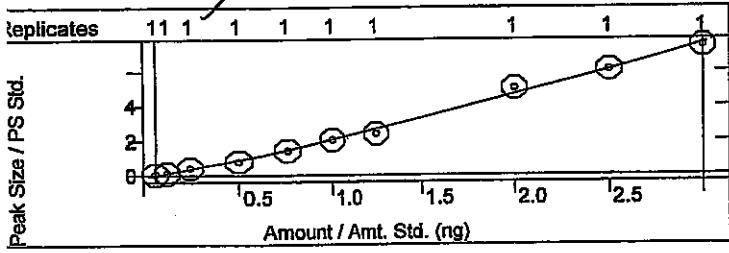
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



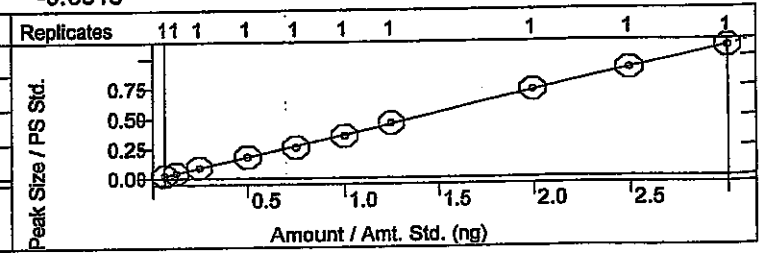
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016



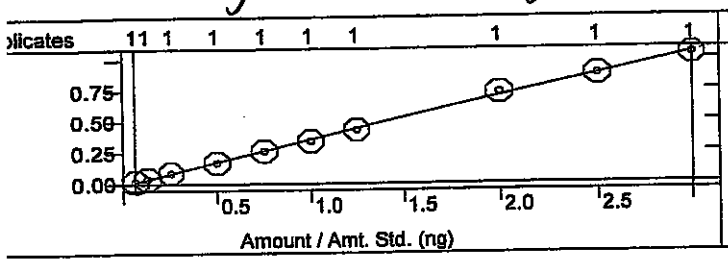
alibration Curves Report

v dlm 4/28/14

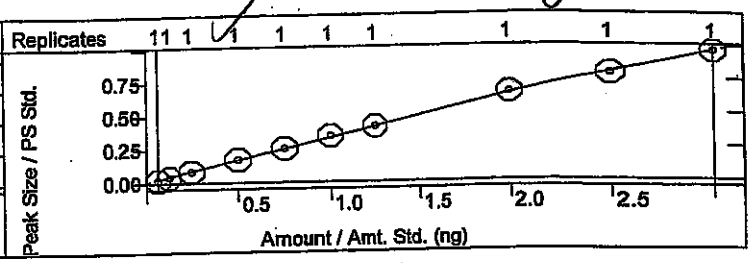
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

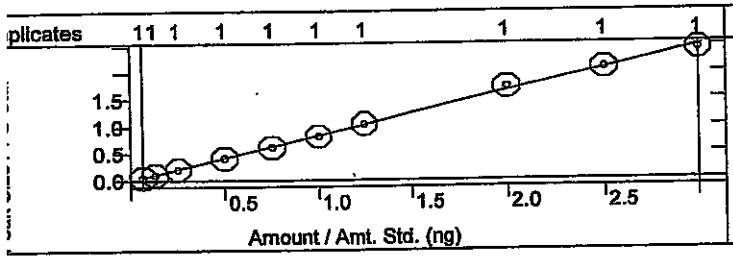
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



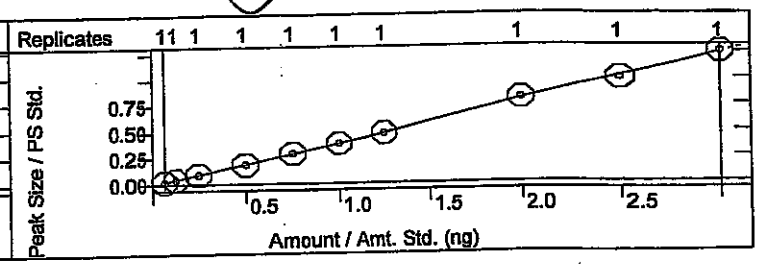
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



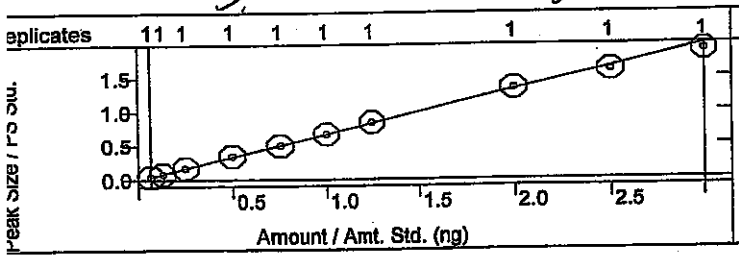
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



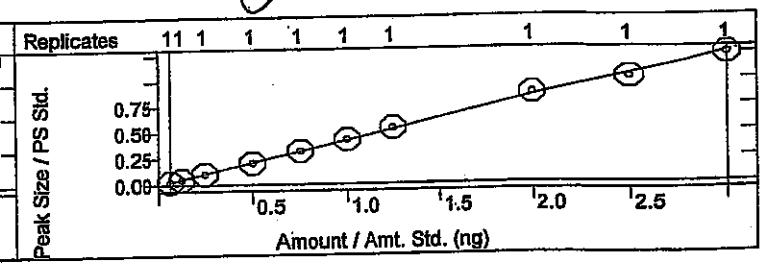
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



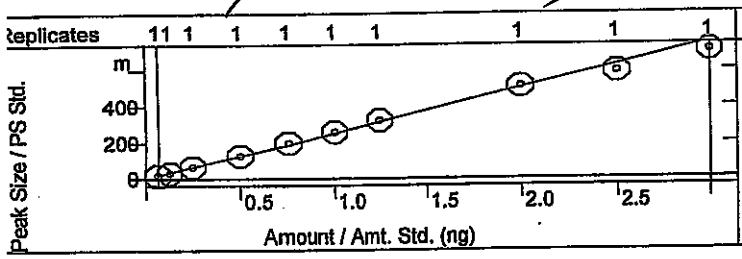
lexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



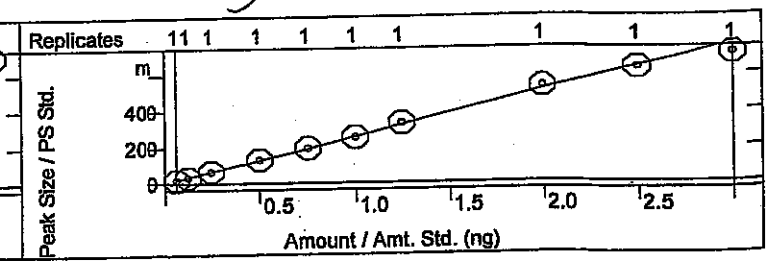
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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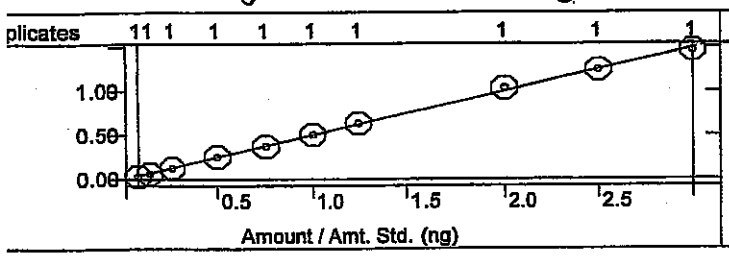
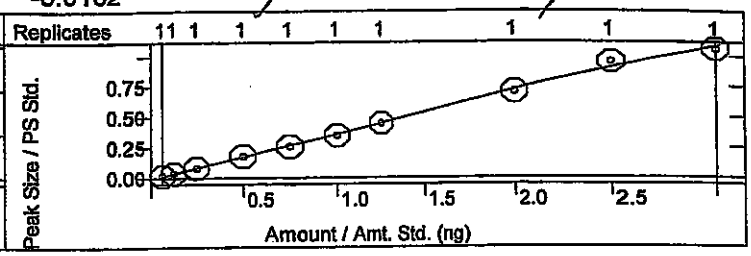
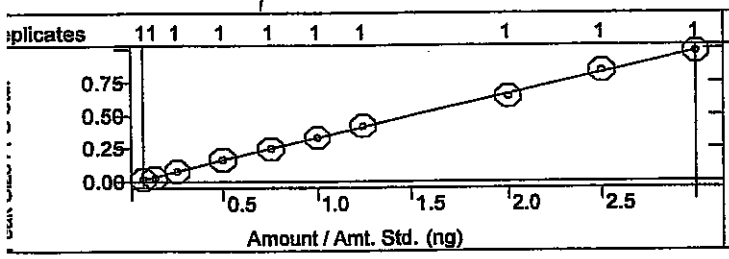
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



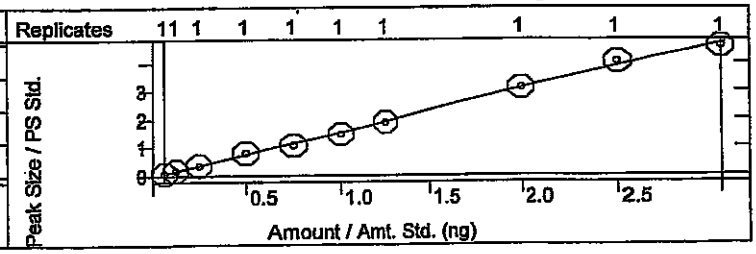
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



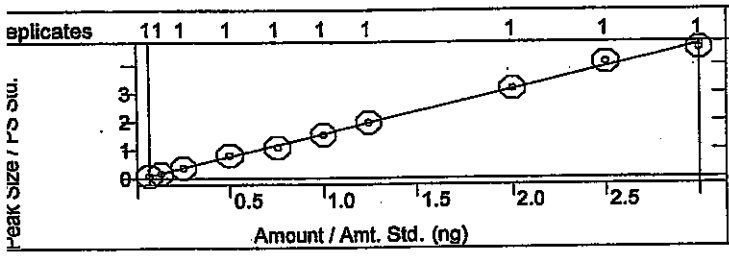
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



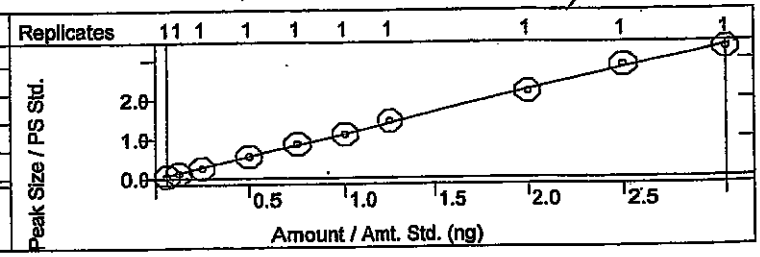
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



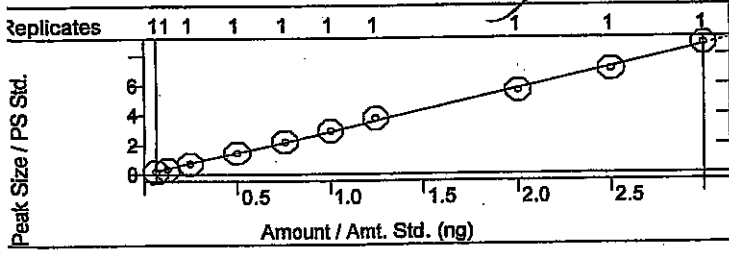
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



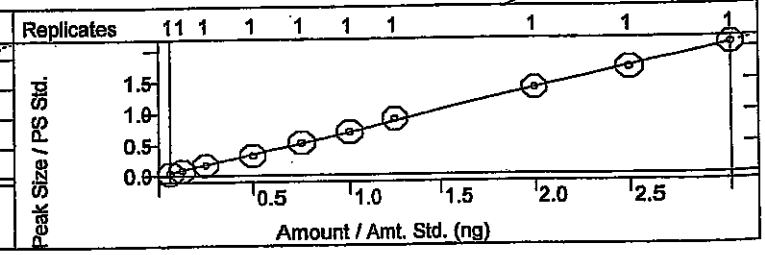
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



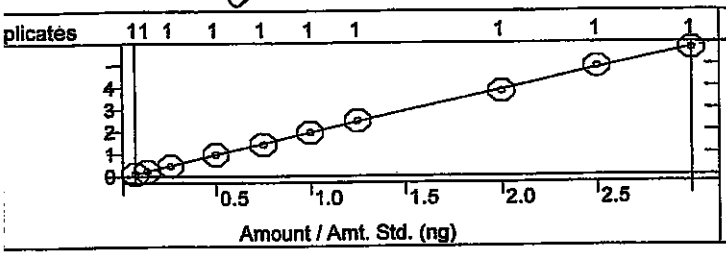
alibration Curves Report

J dm 4/28/14

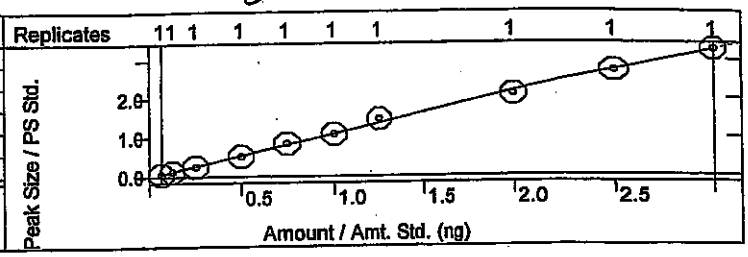
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4/28/14

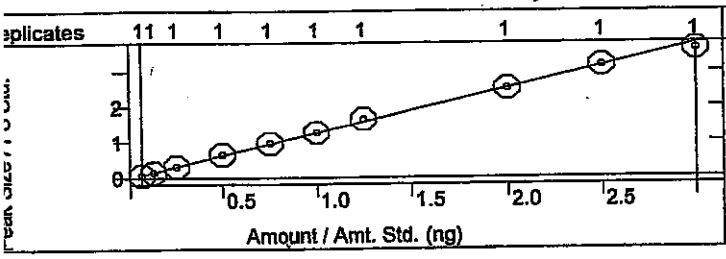
cenaphthylene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



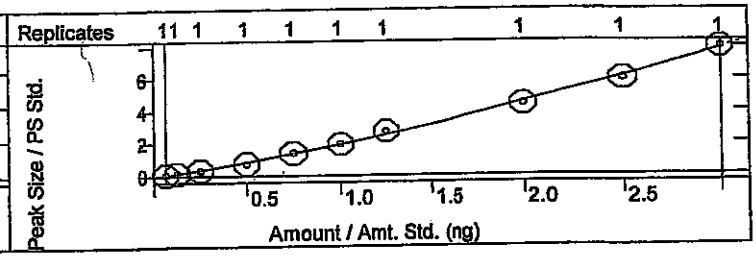
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



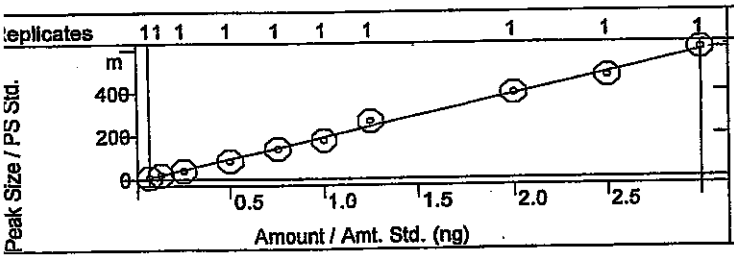
cenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



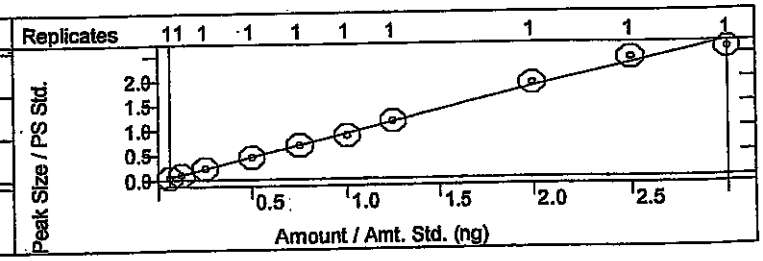
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



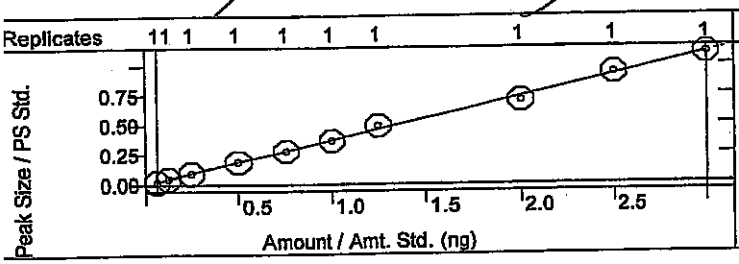
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



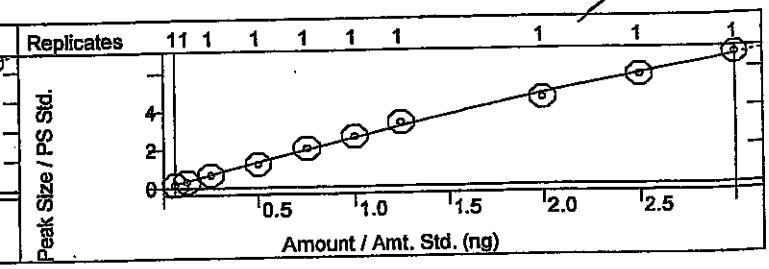
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



alibration Curves Report

J MM 4/28/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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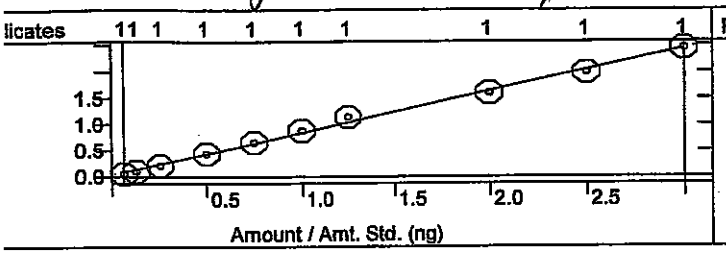
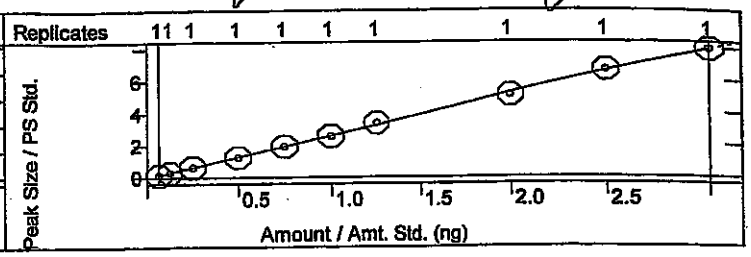
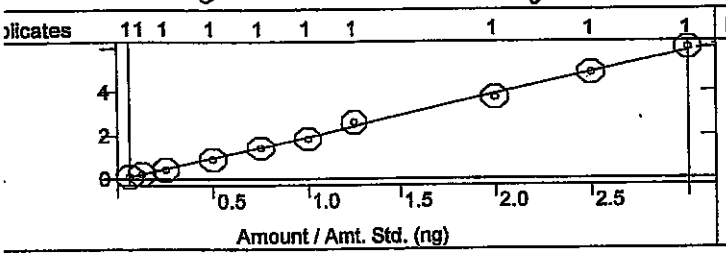
Chlorophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
y = +0.8008x +0.0369



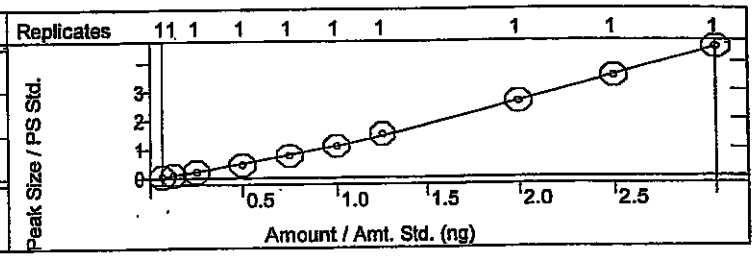
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



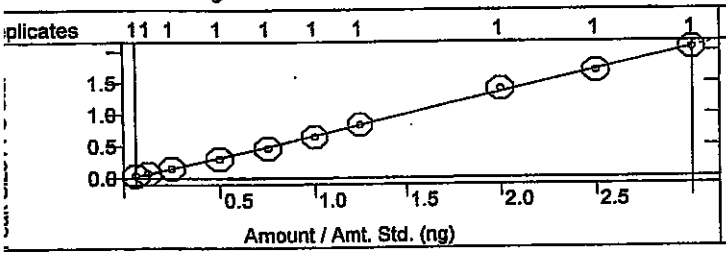
Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
y = +1.9592x -0.0342



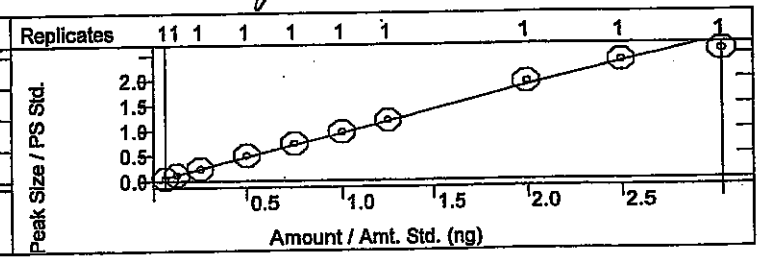
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



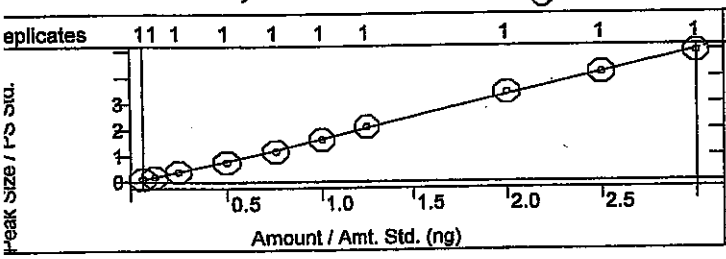
-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



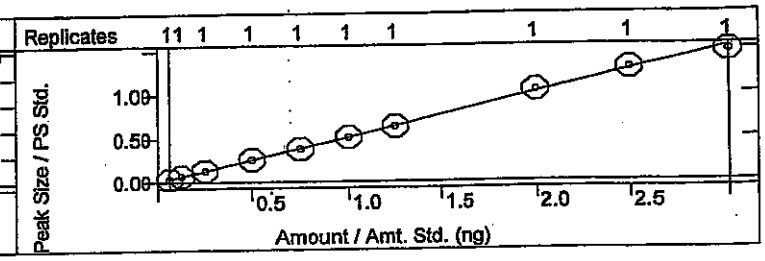
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



alibration Curves Report

V dm 4/28/14

thod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
calc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
mple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
; Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

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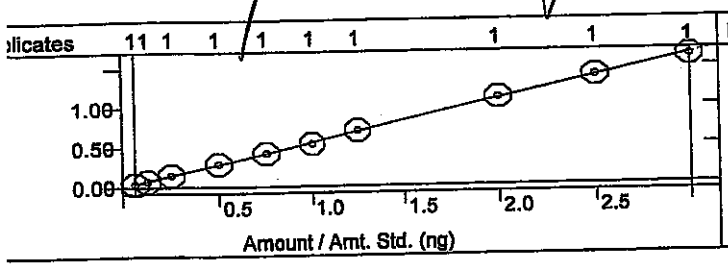
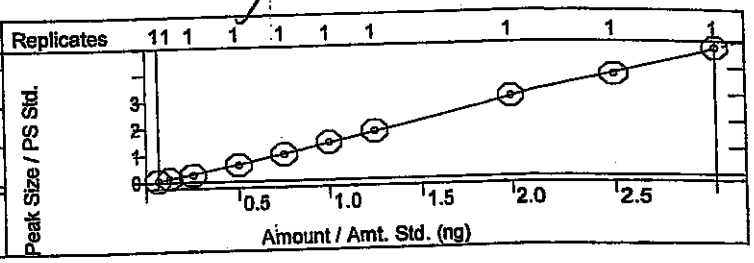
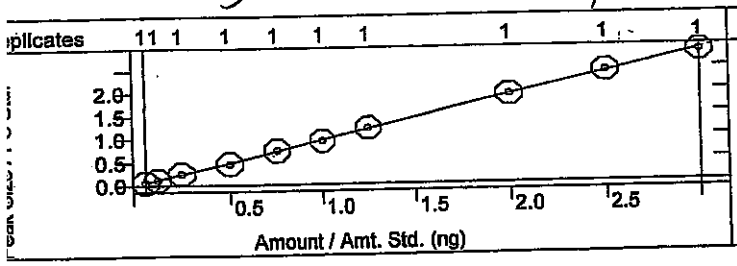
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



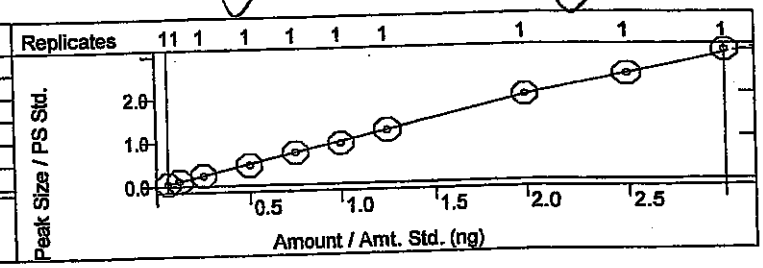
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



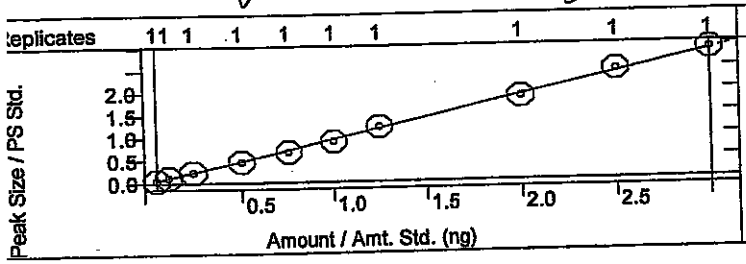
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



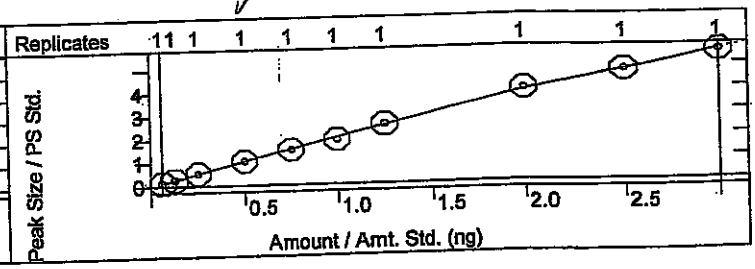
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



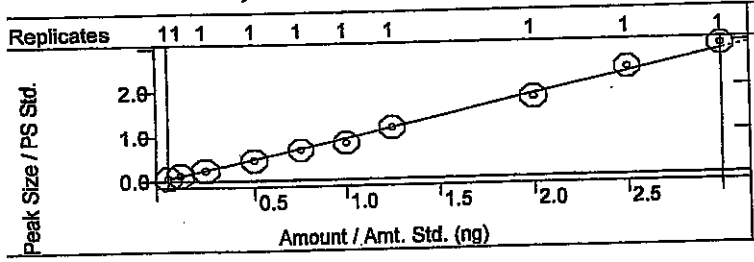
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



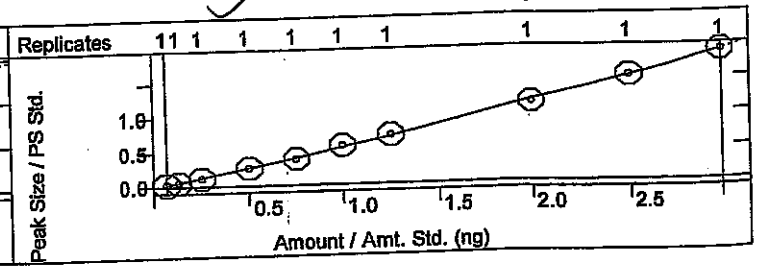
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



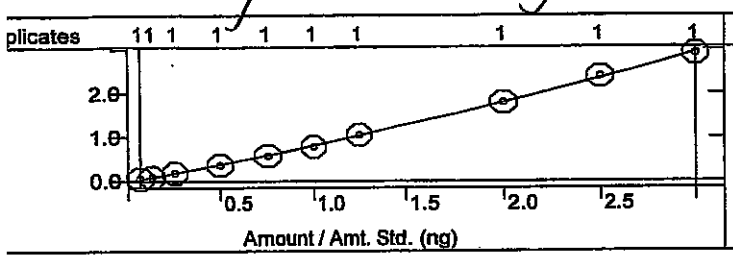
alibration Curves Report

J Allen 4/28/14

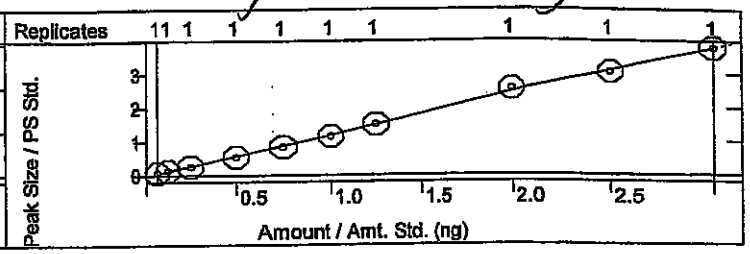
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JK 4-28-14

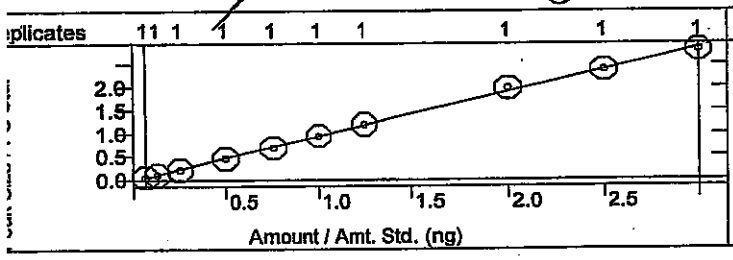
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



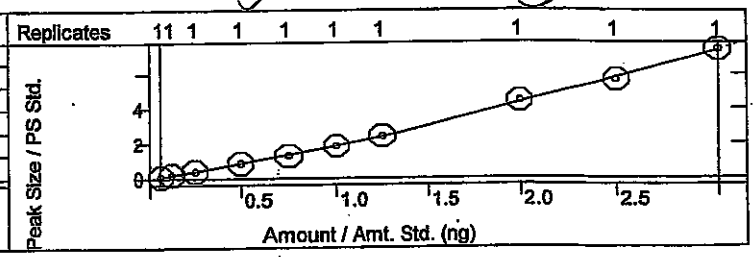
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



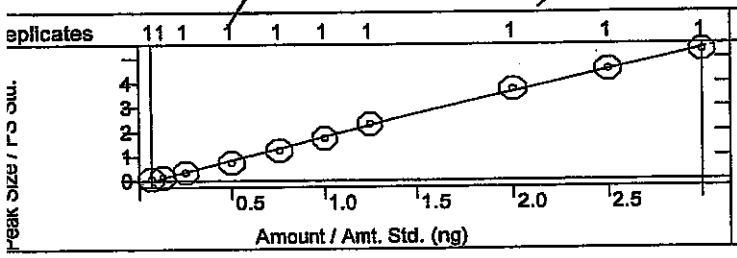
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



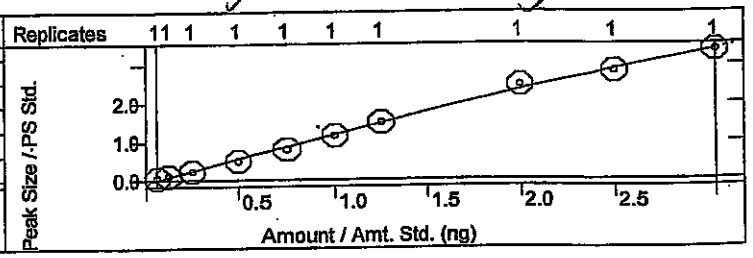
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



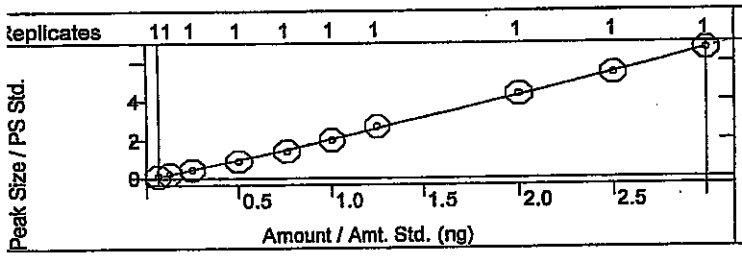
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9868x -0.1374



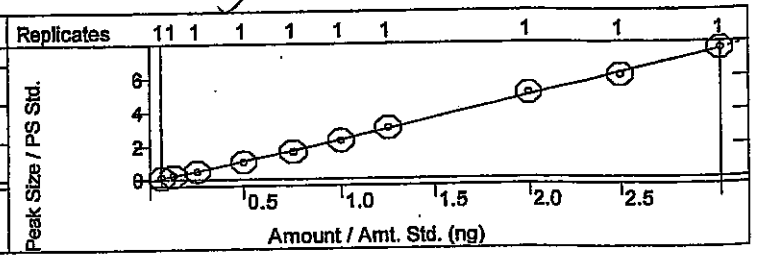
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



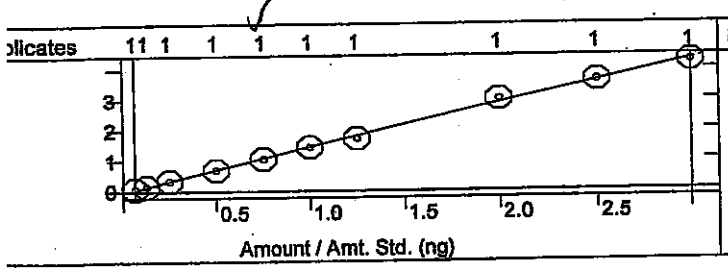
alibration Curves Report

/ dah 4/28/14

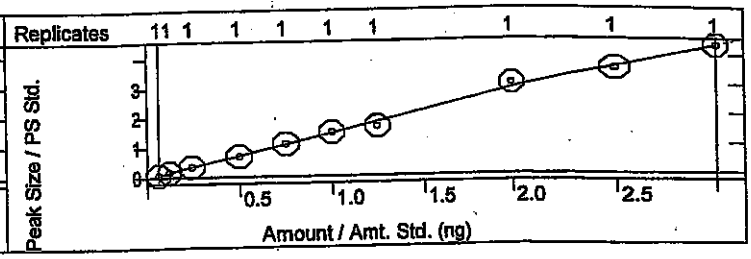
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SO 4-28-14

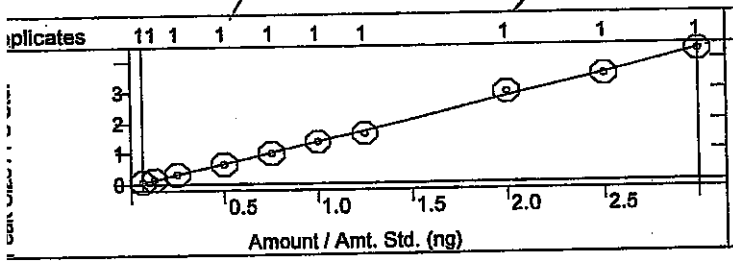
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



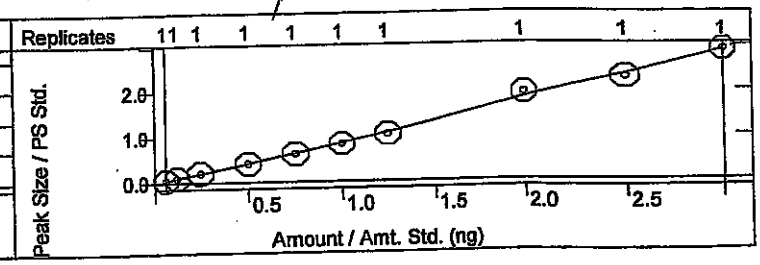
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



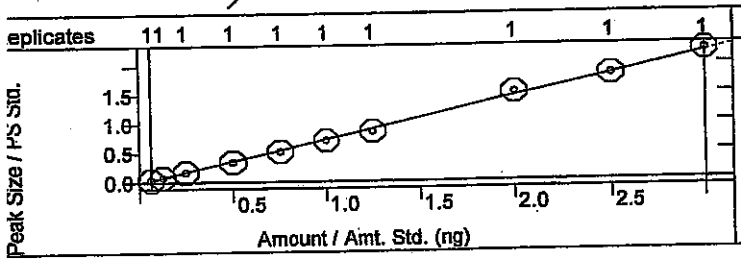
enzo[a]pyrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



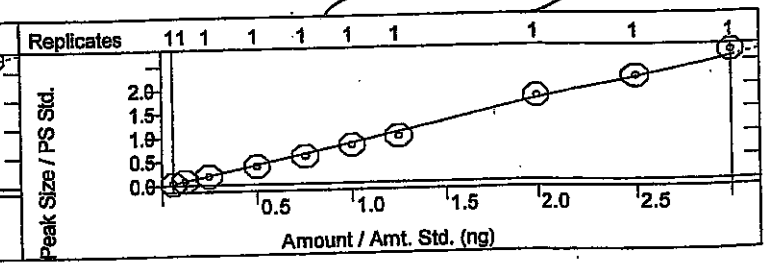
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
= +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dan 4/25

4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dmh 4/28/14

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dkm 4/28/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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JC
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SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Cl	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

E 4-24-14

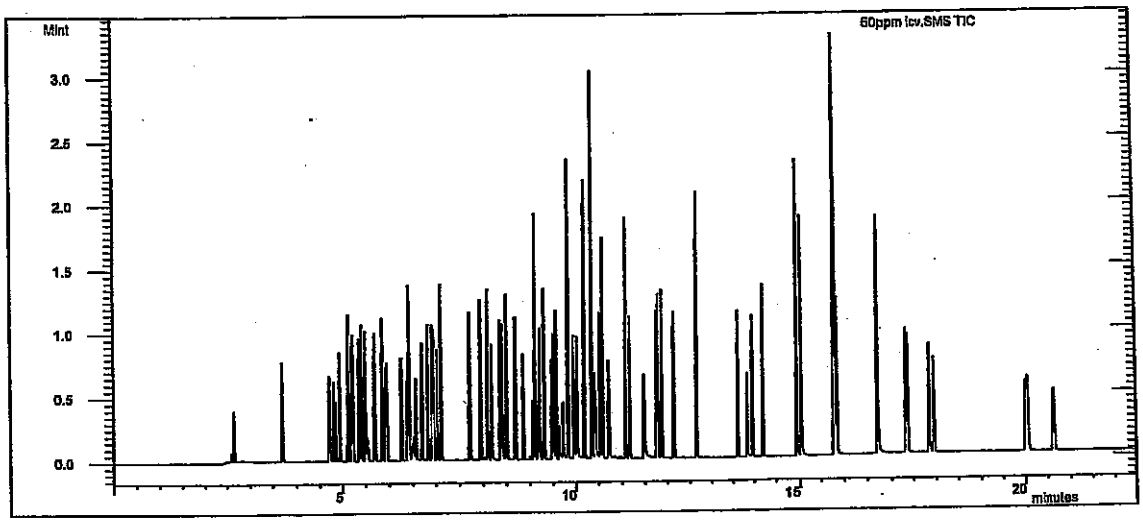
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dam 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

JO 7/31/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407D63**
Date Reported:

4

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407D63

Lab ID: 1407D63-001 **Collection Date:** 7/29/2014 8:55:00 AM
Client Sample ID: FFOR-CF-0038 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	3.0 ✓	0.27		mg/Kg-dry	1	7/31/2014 12:13:06 PM	14496

Lab ID: 1407D63-002 **Collection Date:** 7/29/2014 9:04:00 AM
Client Sample ID: FFOR-CF-0039 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	2.5 ✓	0.28		mg/Kg-dry	1	7/31/2014 12:22:08 PM	14496

Lab ID: 1407D63-003 **Collection Date:** 7/29/2014 9:11:00 AM
Client Sample ID: FFOR-CF-0040 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	2.4 ✓	0.27		mg/Kg-dry	1	7/31/2014 12:26:59 PM	14496

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 7/30/14

QA'd/Date: DS 7/31/14

Prep Start Date: **7/30/2014 9:37:41 A**
Prep End Date:

Prep Batch ID **14496** Prep Code: **3050** Technician: **Mikaela Dicome**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14496		Soil			1.9640	0	0	50	50.000	7/30/2014	
LCS-14496		Soil			1.0180	0	0	50	50.000	7/30/2014	
1407A34-005A	MW11 (18-20)	MeOH (Soil)			1.9729	0	0	50	50.000	7/30/2014	
1407D58-001A	Tank 706 TCLP	Paint			1.0283	0	0	50	50.000	7/30/2014	
1407D63-001A	FFOR-CF-0038	MeOH (Soil)			1.9810	0	0	50	50.000	7/30/2014	
1407D63-001AMS		MeOH (Soil)			1.9814	0	0	50	50.000	7/30/2014	
1407D63-001AMSD		MeOH (Soil)			1.9978	0	0	50	50.000	7/30/2014	
1407D63-002A	FFOR-CF-0039	MeOH (Soil)			1.9980	0	0	50	50.000	7/30/2014	
1407D63-003A	FFOR-CF-0040	MeOH (Soil)			1.0211	0	0	50	50.000	7/30/2014	
1407D66-005B	SC-3	MeOH (Soil)			1.0438	0	0	50	50.000	7/30/2014	
1407D66-006B	SC-2	MeOH (Soil)			1.9822	0	0	50	50.000	7/30/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 14496	Prep ID:	Prep ID:

Chemicals/Reagents:

	Tubes /		Tubes /	4690	Tubes 2 / 4		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4676	HNO_3 6 / 6		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4690	HCl 3 / 6		HCl /		HCl /
	Filters /		Filters /	4700	Filters 1 / 3		Filters /		Filters /
				4684	H_2O_2 1 / 1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1 / 1		TCLP Fluid /		

Standards:

ST6020 -	Exp:	ST6010 - 14139	Exp: 3/31/15		Exp:
ST6020 -	Exp:	ST6010 - 14318	Exp: 7/31/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawah	Digestion Block:
Position: D4	Position:
Therm ID: DBT-22	Therm ID:
Calibration Exp: 8/9/15	Calibration Exp:
Temp: 92.3 °C CF: -0 °C = Corr. Temp: 98.3°C	Temp: °C CF: °C = Corr. Temp: °C
Analyst: MD Date/Time: 7/30/14 14:07	Analyst: Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:
		Acceptable range: 0.1225g - 0.1275g		
500µL	Pipette No.: P13	Wt. DI (g): 0.5013	Rm Temp (°C): 21.7	Analyst: MD
		Acceptable range: 0.4900g - 0.5100g		
	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:
	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:

Analyst/Date: MD 7/30/14 QA'd/Date: DBO 7/31/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20278

ICP-OES Analysis Summary

Instrument: ICP15

Data Imported By: EL 7/31/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 073114 B14496 Prep Batch ID: 14496

Calibration

	Standard ID
ST1	ST6010- 14333
ST2	ST6010- 14307
ST3 (CCV)	ST6010- 14334
ST4	ST6010- 14308

	Standard ID
ST5	ST6010- 14309
ST6	ST6010- 14319
ST7 (CCV CAT)	ST6010- 14320
ST8	ST6010- 14321

	Standard ID
ICV	ST6010- 14331
ICV CAT	ST6010- 14326
ICS ELEM	ST6010- 14335
ICS	ST6010- 14336

Internal Standard

Standard ID: ST6010- 14329

2% Nitric Acid

Reagent ID: 1393

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 100µl Wt DI (g): 0.1002 Rm Temp (°C): 21.7 Analyst: EL

Pipette No: P30 Spike Volume: 50µl Wt DI (g): 0.5039 Rm Temp (°C): 21.7 Analyst: EL

Pipette No: P35 Spike Volume: 1ml Wt DI (g): 1.0132 Rm Temp (°C): 21.7 Analyst: EL

Pipette No: _____ Spike Volume: _____ Wt DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
PB	1407D58-001A	0.60372	1.0283g	50ml	2x	58.705	mg/kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result _____ mg/L

Analyst/Date: EL 7/31/14 QA'd by/Date: 7/31/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: _____ and _____.

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Sample Information Detail Report
Document Name: 073114 B14496

File Description
Hall Design

Parameters Common to All Samples

Batch ID	073114 B14496
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14482	MBLK
2	302	LCS-14482	LCS
3	303	LCSD-14482	LCSD
4	304	MDL-1 50uL	SAMP
5	305	MDL-2 50uL	SAMP
6	306	MDL-3 50uL	SAMP
7	307	MDL-8 200uL	SAMP
8	308	MDL-9 200uL	SAMP
9	309	MDL-10 200uL	SAMP
10	310	MDL-15 500uL	SAMP
11	311	MDL-16 500uL	SAMP
12	312	MDL-17 500uL	SAMP
13	313	MDL-22 1000uL	SAMP
14	314	MDL-23 1000uL	SAMP
15	315	MDL-24 1000uL	SAMP
16	316	MB-14510	MBLK
17	317	LCS-14510	LCS
18	318	LCSD-14510	LCSD
19	319	MDL-4 50uL	SAMP
20	320	MDL-5 50uL	SAMP
21	321	MDL-6 50uL	SAMP
22	322	MDL-11 200uL	SAMP
23	323	MDL-12 200uL	SAMP
24	324	MDL-13 200uL	SAMP
25	325	MDL-18 500uL	SAMP
26	326	MDL-19 500uL	SAMP
27	327	MDL-20 500uL	SAMP
28	328	MDL-25 1000uL	SAMP
29	329	MDL-26 1000uL	SAMP
30	330	MDL-27 1000uL	SAMP
31	331	MB-14478	MBLK
32	332	LCS-14478	LCS
33	333	LCSD-14478 (IDOC1-E	LCSD
34	334	IDOC2-ELS	LCS
35	335	IDOC3-ELS	LCS
36	336	IDOC4-ELS	LCS
37	337	MB-14496	MBLK
38	338	LCS-14496	LCS
39	339	1407D66-005B	SAMP
40	340	1407D66-005B 2X	SAMP
41	341	1407D66-006B	SAMP
42	342	1407D66-006B 2X	SAMP
43	343	1407D63-001A	SAMP
44	344	1407D63-001AMS	MS
45	345	1407D63-001AMSD	MSD
46	346	1407D63-001A 2X	SAMP
47	347	1407D63-001AMS 2X	MS
48	348	1407D63-001AMSD 2X	MSD
49	349	1407D63-002A	SAMP
50	350	1407D63-002A 2X	SAMP
51	351	1407D63-003A	SAMP
52	352	1407D63-003A 2X	SAMP
53	353	1407D58-001A 2X	SAMP
54	354	1407D58-001A 5X	SAMP

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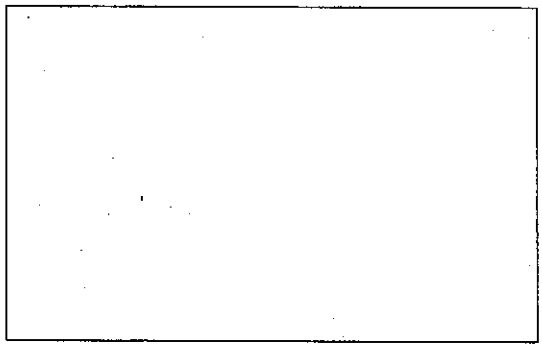
Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	332		LCS-14478	Analyzed
57	333		LCSD-14478 (IDOC1-ELS)	Analyzed
58	334		IDOC2-ELS	Analyzed
59	335		IDOC3-ELS	Analyzed
60	336		IDOC4-ELS	Analyzed
61	337		MB-14496	Analyzed
62	338		LCS-14496	Analyzed
63	339		1407D66-005B	Analyzed
64	340		1407D66-005B 2X	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	QC Passed
68	341		1407D66-006B	Analyzed
69	342		1407D66-006B 2X	Analyzed
70	343		1407D63-001A	Analyzed
71	344		1407D63-001AMS	Analyzed
72	345		1407D63-001AMSD	Analyzed
73	101		1407D63-001APS	Analyzed
74	346		1407D63-001A 2X	Analyzed
75	347		1407D63-001AMS 2X	Analyzed
76	348		1407D63-001AMSD 2X	Analyzed
77	349		1407D63-002A	Analyzed
78	2	QC	CCV	QC Passed
79	1	QC	CCB	QC Passed
80	3	QC	CCV CAT	
81	350		1407D63-002A 2X	Analyzed
82	351		1407D63-003A	Analyzed
83	352		1407D63-003A 2X	Analyzed
84	353		1407D58-001A 2-X	Analyzed
85	354		1407D58-001A ~~2X~~ 5x	Analyzed
86	355		1407A34-005A	Analyzed
87	356		1407A34-005A 2X	Analyzed
88	2	QC	CCV	QC Passed
89	1	QC	CCB	QC Passed
90	3	QC	CCV CAT	
91	7	QC	DI RINSE	QC Passed

Ba 233.527



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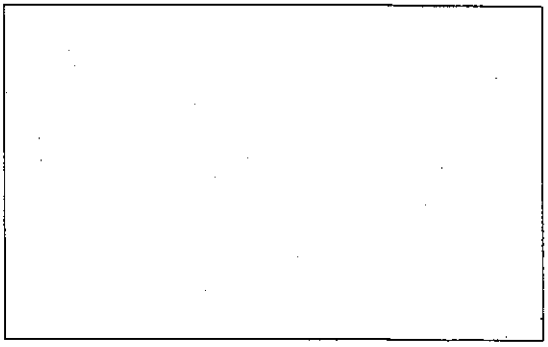

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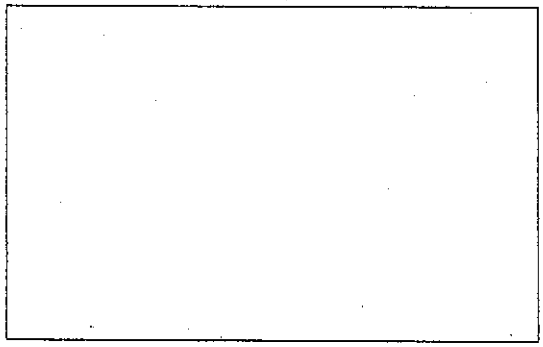

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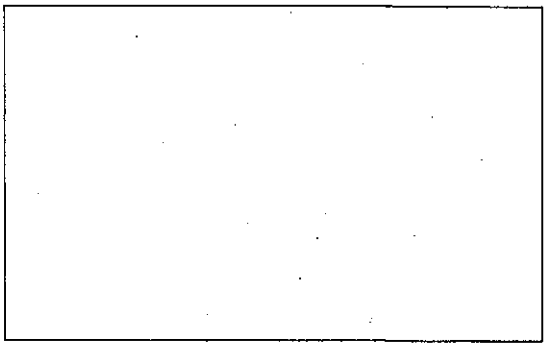

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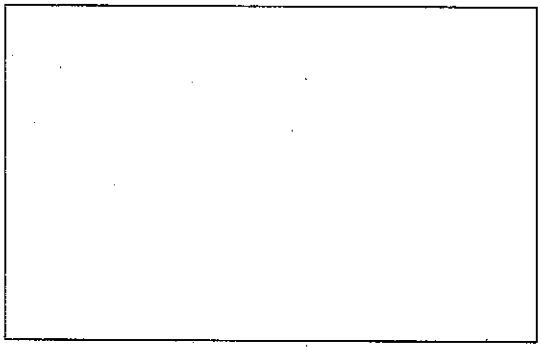

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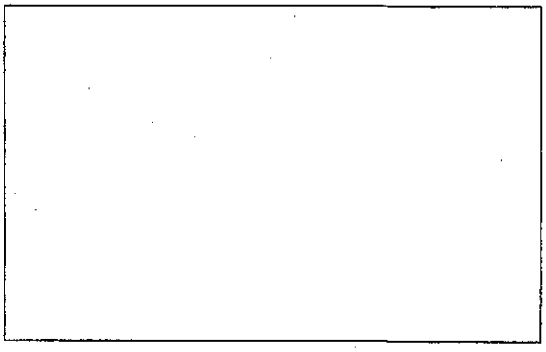

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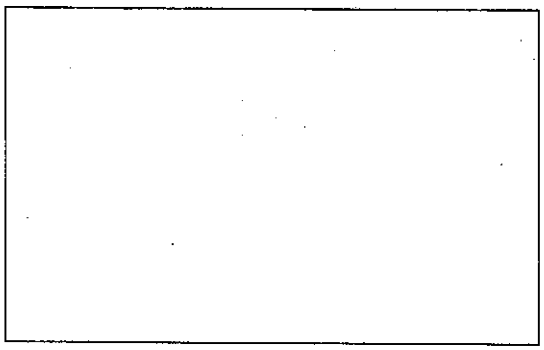

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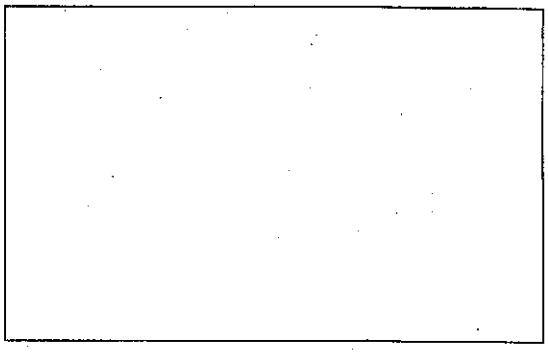

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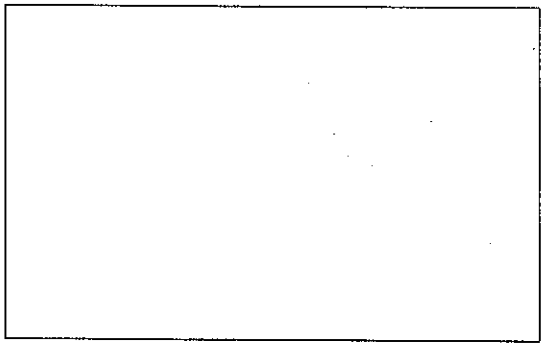

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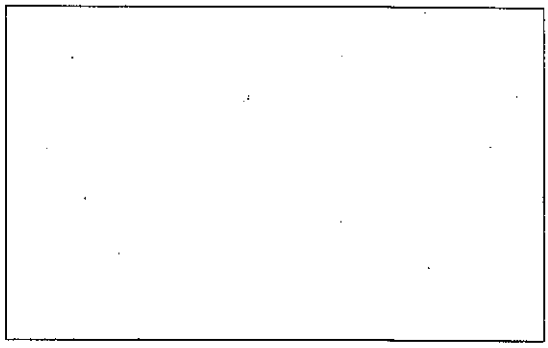

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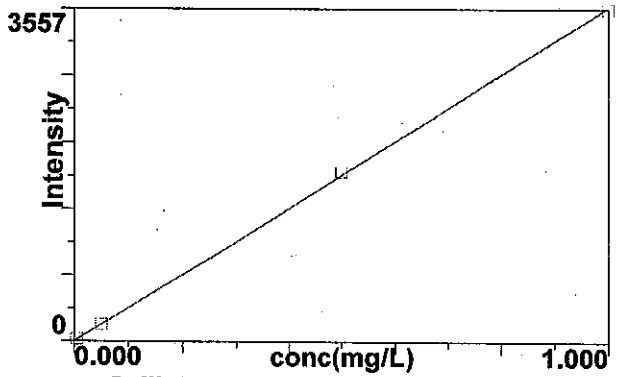
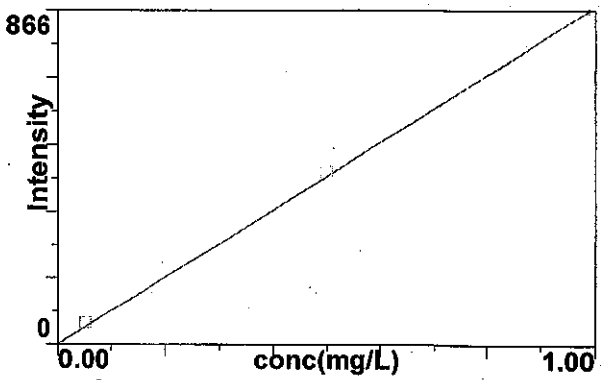


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999939

23

Pb 217.000

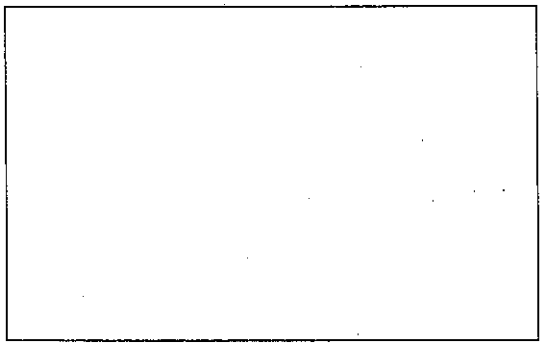


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999785

24

Method: ISIS 010814 6010SOIL
Result: 073114 B14496

Tl 190.801



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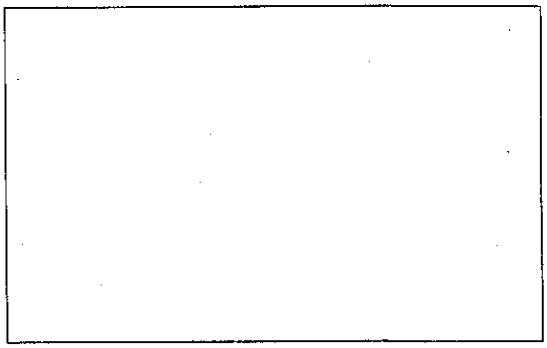

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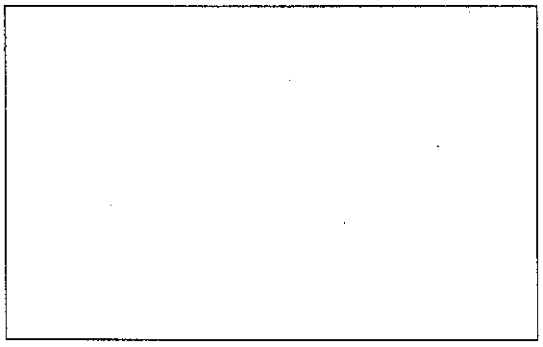

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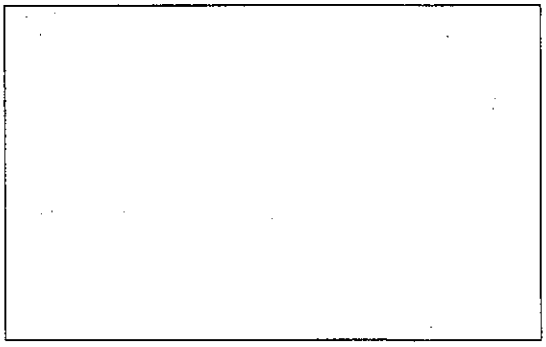

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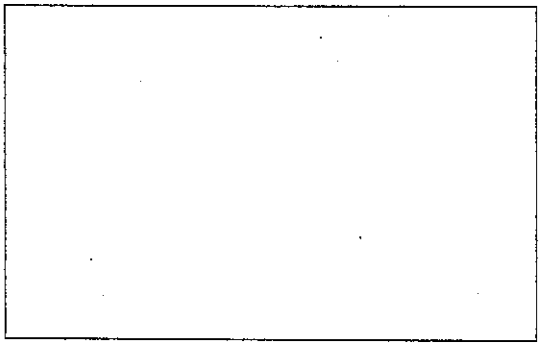
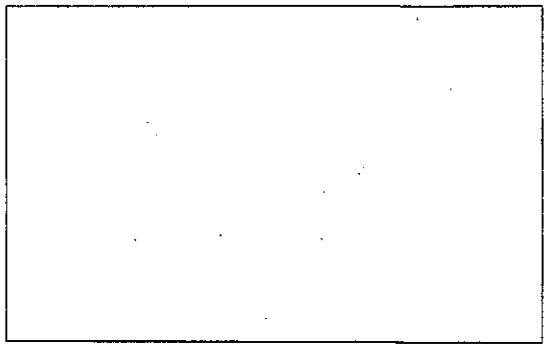


37

Sr 421.552 R



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Analysis Begun

Start Time: 7/31/2014 10:22:32 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/31/2014 8:29:57 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\073114 B14496.sif
Batch ID: 073114 B14496
Results Data Set: 073114 B14496
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 010814 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 3/27/2014 11:30:19 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/31/2014 10:22:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31284.6	150.62	0.48%	100.00	%
Y 371.029	561460.3	2654.63	0.47%	100.00	%
Al 396.153†	-54.9	8.55	15.58%	[0.00]	mg/L
Fe 238.204†	36.3	12.00	33.09%	[0.00]	mg/L
K 766.490†	1685.0	47.36	2.81%	[0.00]	mg/L
Pb 220.353†	-18.8	7.89	41.89%	[0.00]	mg/L
Pb 217.000†	0.6	3.85	637.63%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 7/31/2014 10:24:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32167.6	216.66	0.67%	102.82	%
Y 371.029	562250.9	3464.08	0.62%	100.14	%
Al 396.153†	617.6	49.97	8.09%	[0.01]	mg/L
Fe 238.204†	75.7	2.13	2.81%	[0.02]	mg/L
K 766.490†	1182.4	66.33	5.61%	[0.5]	mg/L
Pb 220.353†	23.9	7.04	29.48%	[0.005]	mg/L

Sequence No.: 3
Autosampler Location: 409

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 7/31/2014 10:31:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32101.1	337.18	1.05%	102.61	%
Y 371.029	567157.8	4428.27	0.78%	101.01	%
Al 396.153†	246524.5	578.40	0.23%	[5.00]	mg/L
Fe 238.204†	17365.9	43.54	0.25%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 396.153	5	Lin Thru 0	0.0	49300	0.00000	0.999998	
Fe 238.204	5	Lin Thru 0	0.0	3477	0.00000	0.999987	
K 766.490	1	Lin Thru 0	0.0	2365	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	3576	0.00000	0.999939	
Pb 217.000	3	Lin Thru 0	0.0	873.4	0.00000	0.999785	

Sequence No.: 7
Sample ID: ST6
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 411
Date Collected: 7/31/2014 10:32:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST6

Analyte	Back Pressure	Flow
All	242.0 kPa	0.55 L/min

Mean Data: ST6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31586.9	264.64	0.84%	100.97	%
Y 371.029	564620.6	651.80	0.12%	100.56	%
K 766.490†	12664.5	95.98	0.76%	[5]	mg/L

Sequence No.: 8
Sample ID: ST7
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/31/2014 10:33:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST7

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: ST7

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units

Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: ICV CAT

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: ICV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31646.9	101.16	%	1.562				1.54%
Y 371.029	560731.4	99.870	%	0.1162				0.12%
Al 396.153†	28.6	0.00058	mg/L	0.000473	0.00058	mg/L	0.000473	81.48%
Fe 238.204†	10.8	0.00310	mg/L	0.001253	0.00310	mg/L	0.001253	40.44%
K 766.490†	127759.8	49.093	mg/L	0.2550	49.093	mg/L	0.2550	0.52%
QC value within limits for K 766.490 Recovery = 98.19%								
Pb 220.353†	5.4	0.00150	mg/L	0.000414	0.00150	mg/L	0.000414	27.57%
Pb 217.000†	3.0	0.00339	mg/L	0.001885	0.00339	mg/L	0.001885	55.64%
All analyte(s) passed QC.								

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/31/2014 10:38:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31718.3	101.39	%	0.157				0.15%
Y 371.029	566536.2	100.90	%	0.439				0.43%
Al 396.153†	8.8	0.00018	mg/L	0.000344	0.00018	mg/L	0.000344	192.42%
QC value within limits for Al 396.153 Recovery = Not calculated								
Fe 238.204†	0.8	0.00022	mg/L	0.002274	0.00022	mg/L	0.002274	>999.9%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-20.9	-0.00802	mg/L	0.023532	-0.00802	mg/L	0.023532	293.48%
QC value within limits for K 766.490 Recovery = Not calculated								
Pb 220.353†	-6.0	-0.00166	mg/L	0.001714	-0.00166	mg/L	0.001714	102.96%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	5.9	0.00679	mg/L	0.008135	0.00679	mg/L	0.008135	119.77%
All analyte(s) passed QC.								

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/31/2014 10:40:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	32207.1	102.95	%	0.193				0.19%
Y 371.029	569874.7	101.50	%	1.439				1.42%

Nebulizer Parameters: MDL-19 500uL

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: MDL-19 500uL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	33009.1	105.51	%	1.114				1.06%
Y 371.029	577514.0	102.86	%	0.616				0.60%
Al 396.153†	1860.6	0.03774	mg/L	0.001166	0.03774	mg/L	0.001166	3.09%
Fe 238.204†	303.8	0.08738	mg/L	0.002500	0.08738	mg/L	0.002500	2.86%
K 766.490†	3452.9	1.3268	mg/L	0.01412	1.3268	mg/L	0.01412	1.06%
Pb 220.353†	46.8	0.01308	mg/L	0.002675	0.01308	mg/L	0.002675	20.45%
Pb 217.000†	15.6	0.01789	mg/L	0.008696	0.01789	mg/L	0.008696	48.61%

Sequence No.: 48
Sample ID: MDL-20 500uL
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 327
Date Collected: 7/31/2014 11:40:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MDL-20 500uL

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: MDL-20 500uL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	32818.3	104.90	%	1.143				1.09%
Y 371.029	582965.2	103.83	%	0.972				0.94%
Al 396.153†	1675.1	0.03398	mg/L	0.000366	0.03398	mg/L	0.000366	1.08%
Fe 238.204†	227.8	0.06552	mg/L	0.002932	0.06552	mg/L	0.002932	4.47%
K 766.490†	3418.2	1.3135	mg/L	0.05421	1.3135	mg/L	0.05421	4.13%
Pb 220.353†	49.5	0.01385	mg/L	0.003830	0.01385	mg/L	0.003830	27.65%
Pb 217.000†	19.2	0.02204	mg/L	0.002810	0.02204	mg/L	0.002810	12.75%

Sequence No.: 49
Sample ID: MDL-25 1000uL
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 328
Date Collected: 7/31/2014 11:41:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MDL-25 1000uL

Analyte	Back Pressure	Flow
All	244.0 kPa	0.55 L/min

Mean Data: MDL-25 1000uL

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	33376.8	106.69	%	1.081				1.01%
Y 371.029	578079.5	102.96	%	1.026				1.00%
Al 396.153†	2893.8	0.05870	mg/L	0.000773	0.05870	mg/L	0.000773	1.32%
Fe 238.204†	385.4	0.11084	mg/L	0.000434	0.11084	mg/L	0.000434	0.39%
K 766.490†	6387.0	2.4542	mg/L	0.01933	2.4542	mg/L	0.01933	0.79%
Pb 220.353†	92.4	0.02584	mg/L	0.000840	0.02584	mg/L	0.000840	3.25%
Pb 217.000†	23.5	0.02686	mg/L	0.006304	0.02686	mg/L	0.006304	23.47%

Sequence No.: 50

Autosampler Location: 329

QC value within limits for Fe 238.204 Recovery = 99.22%

K 766.490†	-131.2	-0.05041 mg/L	0.015688	-0.05041 mg/L	0.015688	31.12%
Pb 220.353†	1731.5	0.48419 mg/L	0.000921	0.48419 mg/L	0.000921	0.19%

QC value within limits for Pb 220.353 Recovery = 96.84%

Pb 217.000†	427.8	0.48979 mg/L	0.005726	0.48979 mg/L	0.005726	1.17%

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/31/2014 11:48:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33164.5	106.01	%	0.853				0.80%
Y 371.029	594660.8	105.91	%	0.413				0.39%
Al 396.153†	12.8	0.00026	mg/L	0.000713	0.00026	mg/L	0.000713	274.36%
QC value within limits for Al 396.153 Recovery = Not calculated								
Fe 238.204†	-3.1	-0.00089	mg/L	0.002628	-0.00089	mg/L	0.002628	295.70%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-23.7	-0.00910	mg/L	0.007253	-0.00910	mg/L	0.007253	79.69%
QC value within limits for K 766.490 Recovery = Not calculated								
Pb 220.353†	-7.0	-0.00196	mg/L	0.001547	-0.00196	mg/L	0.001547	78.91%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	6.7	0.00764	mg/L	0.005776	0.00764	mg/L	0.005776	75.59%

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/31/2014 11:50:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	243.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33254.3	106.30	%	0.428				0.40%
Y 371.029	586160.0	104.40	%	0.354				0.34%
Al 396.153†	48.8	0.00099	mg/L	0.000540	0.00099	mg/L	0.000540	54.56%
Fe 238.204†	14.6	0.00420	mg/L	0.000602	0.00420	mg/L	0.000602	14.36%
K 766.490†	121260.2	46.595	mg/L	0.0504	46.595	mg/L	0.0504	0.11%
QC value within limits for K 766.490 Recovery = 93.19%								
Pb 220.353†	6.8	0.00191	mg/L	0.002335	0.00191	mg/L	0.002335	122.16%
Pb 217.000†	8.6	0.00979	mg/L	0.009897	0.00979	mg/L	0.009897	101.05%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/31/2014 11:52:30 AM
Logged In Analyst: inorg

Plasma On Time: 7/31/2014 8:29:57 AM
Technique: ICP Continuous

Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: LCSD-14478 (IDOC1-ELS)

Analyte	Back Pressure	Flow
All	245.0 kPa	0.55 L/min

Mean Data: LCSD-14478 (IDOC1-ELS)

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31554.5	100.86	%	0.500				0.50%
Y 371.029	545842.8	97.218	%	0.5624				0.58%
Al 396.153†	31078.3	0.63037	mg/L	0.001798	0.63037	mg/L	0.001798	0.29%
K 766.490†	122214.2	46.962	mg/L	0.0723	46.962	mg/L	0.0723	0.15%
Pb 220.353†	1622.1	0.45360	mg/L	0.003372	0.45360	mg/L	0.003372	0.74%
Pb 217.000†	434.0	0.49695	mg/L	0.013616	0.49695	mg/L	0.013616	2.74%

Matrix Recovery Check: LCSD-14478 (IDOC1-ELS)

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.276	46.962	0.072	mg/L	93.4
Al 396.153	0.51247	0.63037	0.002	mg/L	123.6
Pb 220.353	0.50090	0.45360	0.003	mg/L	90.5
Pb 217.000	0.50750	0.49695	0.014	mg/L	97.9

Sequence No.: 58 Autosampler Location: 334
Sample ID: IDOC2-ELS Date Collected: 7/31/2014 11:56:35 AM
Analyst: ERIC Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: IDOC2-ELS

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: IDOC2-ELS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31433.8	100.48	%	0.909				0.90%
Y 371.029	535940.0	95.455	%	0.3087				0.32%
Al 396.153†	31244.9	0.63375	mg/L	0.001811	0.63375	mg/L	0.001811	0.29%
K 766.490†	122341.2	47.011	mg/L	0.1244	47.011	mg/L	0.1244	0.26%
Pb 220.353†	1658.0	0.46362	mg/L	0.006626	0.46362	mg/L	0.006626	1.43%
Pb 217.000†	448.4	0.51341	mg/L	0.006047	0.51341	mg/L	0.006047	1.18%

Sequence No.: 59 Autosampler Location: 335
Sample ID: IDOC3-ELS Date Collected: 7/31/2014 11:57:57 AM
Analyst: ERIC Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: IDOC3-ELS

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: IDOC3-ELS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31766.8	101.54	%	0.739				0.73%
Y 371.029	535913.1	95.450	%	0.0535				0.06%

Y 371.029 R	32109.3	102.64	%	1.509			1.47%
Y 371.029	551813.7	98.282	%	0.6098			0.62%
Al 396.153†	28149.7	0.57097	mg/L	0.000934	0.57097 mg/L	0.000934	0.16%
K 766.490†	122359.2	47.017	mg/L	0.1375	47.017 mg/L	0.1375	0.29%
Pb 220.353†	1694.2	0.47374	mg/L	0.000976	0.47374 mg/L	0.000976	0.21%
Pb 217.000†	434.2	0.49709	mg/L	0.009904	0.49709 mg/L	0.009904	1.99%

Matrix Recovery Check: LCS-14496

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	50.220	47.017	0.138	mg/L	93.6
Al 396.153	0.51071	0.57097	0.001	mg/L	112.1
Pb 220.353	0.50153	0.47374	0.001	mg/L	94.4
Pb 217.000	0.50770	0.49709	0.010	mg/L	97.9

Sequence No.: 63
Sample ID: 1407D66-005B
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 339
Date Collected: 7/31/2014 12:03:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D66-005B

Analyte	Back Pressure	Flow
All	252.0 kPa	0.55 L/min

Mean Data: 1407D66-005B

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	36773.0	117.54	%	1.671				1.42%
Y 371.029	647167.5	115.27	%	1.479				1.28%
Al 396.153†	5187573.2	105.22	mg/L	1.930	105.22	mg/L	1.930	1.83%
K 766.490†	32929.8	12.654	mg/L	0.0348	12.654	mg/L	0.0348	0.27%
Pb 220.353†	254.9	0.07127	mg/L	0.001948	0.07127	mg/L	0.001948	2.73%
Pb 217.000†	85.3	0.09768	mg/L	0.003281	0.09768	mg/L	0.003281	3.36%

Sequence No.: 64
Sample ID: 1407D66-005B 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 340
Date Collected: 7/31/2014 12:04:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D66-005B 2X

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407D66-005B 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35725.3	114.19	%	0.764				0.67%
Y 371.029	629778.7	112.17	%	0.298				0.27%
Al 396.153†	2728315.4	55.339	mg/L	0.4816	55.339	mg/L	0.4816	0.87%
K 766.490†	17357.9	6.6699	mg/L	0.03268	6.6699	mg/L	0.03268	0.49%
Pb 220.353†	145.7	0.04073	mg/L	0.000303	0.04073	mg/L	0.000303	0.74%
Pb 217.000†	56.8	0.06498	mg/L	0.000849	0.06498	mg/L	0.000849	1.31%

Sequence No.: 65
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/31/2014 12:06:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

QC value within limits for K 766.490 Recovery = 96.26%

Pb 220.353†	7.9	0.00221 mg/L	0.002012	0.00221 mg/L	0.002012	91.08%
Pb 217.000†	10.2	0.01170 mg/L	0.009634	0.01170 mg/L	0.009634	82.37%

All analyte(s) passed QC.
User canceled analysis.

==========

Analysis Begun

Start Time: 7/31/2014 12:10:34 PM **Plasma On Time: 7/31/2014 8:29:57 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\073114 B14496.sif
Batch ID: 073114 B14496
Results Data Set: 073114 B14496
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

==========

Sequence No.: 68 **Autosampler Location: 341**
Sample ID: 1407D66-006B **Date Collected: 7/31/2014 12:10:34 PM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: 1407D66-006B

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407D66-006B

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	629453.5	112.11	%	0.611				0.55%
Pb 220.353†	89.6	0.02507	mg/L	0.001894	0.02507	mg/L	0.001894	7.56%
Pb 217.000†	42.9	0.04911	mg/L	0.011392	0.04911	mg/L	0.011392	23.20%

==========

Sequence No.: 69 **Autosampler Location: 342**
Sample ID: 1407D66-006B 2X **Date Collected: 7/31/2014 12:11:51 PM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1407D66-006B 2X

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407D66-006B 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	615748.5	109.67	%	0.518				0.47%
Pb 220.353†	56.7	0.01585	mg/L	0.001878	0.01585	mg/L	0.001878	11.85%
Pb 217.000†	33.5	0.03833	mg/L	0.006095	0.03833	mg/L	0.006095	15.90%

==========

Sequence No.: 70 **Autosampler Location: 343**
Sample ID: 1407D63-001A **Date Collected: 7/31/2014 12:13:06 PM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1407D63-001A

Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D63-001APS

Analyte	Back Pressure	Flow
All	252.0 kPa	0.55 L/min

Mean Data: 1407D63-001APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	644782.7	114.84	%	1.083				0.94%
Pb 220.353†	1490.6	0.41682	mg/L	0.002111	0.41682	mg/L	0.002111	0.51%
Pb 217.000†	443.2	0.50739	mg/L	0.007396	0.50739	mg/L	0.007396	1.46%

Sequence No.: 74
Sample ID: 1407D63-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 346
Date Collected: 7/31/2014 12:18:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D63-001A 2X

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407D63-001A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	620116.4	110.45	%	0.276				0.25%
Pb 220.353†	118.4	0.03311	mg/L	0.000903	0.03311	mg/L	0.000903	2.73%
Pb 217.000†	58.1	0.06656	mg/L	0.012117	0.06656	mg/L	0.012117	18.21%

Sequence No.: 75
Sample ID: 1407D63-001AMS 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 347
Date Collected: 7/31/2014 12:19:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D63-001AMS 2X

Analyte	Back Pressure	Flow
All	252.0 kPa	0.55 L/min

Mean Data: 1407D63-001AMS 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	621575.6	110.71	%	0.996				0.90%
Pb 220.353†	814.6	0.22780	mg/L	0.004035	0.22780	mg/L	0.004035	1.77%
Pb 217.000†	248.1	0.28401	mg/L	0.009710	0.28401	mg/L	0.009710	3.42%

Matrix Recovery Check: 1407D63-001AMS 2X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Pb 220.353	0.53311	0.22780	0.004	mg/L	38.9
Pb 217.000	0.56656	0.28401	0.010	mg/L	43.5

Sequence No.: 76
Sample ID: 1407D63-001AMSD 2X

Autosampler Location: 348
Date Collected: 7/31/2014 12:20:50 PM

Sequence No.: 79
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/31/2014 12:24:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	599658.0	106.80	%	0.300				0.28%
Pb 220.353†	5.1	0.00143	mg/L	0.001601	0.00143	mg/L	0.001601	112.36%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	3.2	0.00367	mg/L	0.007822	0.00367	mg/L	0.007822	213.02%

All analyte(s) passed QC.
User canceled analysis.

==========

Analysis Begun

Start Time: 7/31/2014 12:25:40 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/31/2014 8:29:57 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\073114 B14496.sif
Batch ID: 073114 B14496
Results Data Set: 073114 B14496
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 81
Sample ID: 1407D63-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 350
Date Collected: 7/31/2014 12:25:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1407D63-002A 2X

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407D63-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	611729.5	108.95	%	0.830				0.76%
Pb 220.353†	96.5	0.02699	mg/L	0.002340	0.02699	mg/L	0.002340	8.67%
Pb 217.000†	49.3	0.05648	mg/L	0.007302	0.05648	mg/L	0.007302	12.93%

==========

Sequence No.: 82
Sample ID: 1407D63-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 351
Date Collected: 7/31/2014 12:26:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407D63-003A

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Sequence No.: 86
Sample ID: 1407A34-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 355
Date Collected: 7/31/2014 12:31:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407A34-005A

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407A34-005A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	657282.3	117.07	%	1.746				1.49%
Pb 220.353†	359.4	0.10049	mg/L	0.002131	0.10049	mg/L	0.002131	2.12%
Pb 217.000†	173.8	0.19895	mg/L	0.010324	0.19895	mg/L	0.010324	5.19%

Sequence No.: 87
Sample ID: 1407A34-005A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 356
Date Collected: 7/31/2014 12:33:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407A34-005A 2X

Analyte	Back Pressure	Flow
All	251.0 kPa	0.55 L/min

Mean Data: 1407A34-005A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	635196.5	113.13	%	1.510				1.33%
Pb 220.353†	213.1	0.05959	mg/L	0.000932	0.05959	mg/L	0.000932	1.56%
Pb 217.000†	94.0	0.10762	mg/L	0.001776	0.10762	mg/L	0.001776	1.65%

Sequence No.: 88
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/31/2014 12:34:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	250.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	585149.3	104.22	%	0.402				0.39%
Pb 220.353†	1817.2	0.50814	mg/L	0.002339	0.50814	mg/L	0.002339	0.46%
QC value within limits for Pb 220.353 Recovery = 101.63%								
Pb 217.000†	444.9	0.50940	mg/L	0.001914	0.50940	mg/L	0.001914	0.38%
All analyte(s) passed QC.								

Sequence No.: 89
Sample ID: CCB
Analyst:
Initial Sample Wt:

Autosampler Location: 1
Date Collected: 7/31/2014 12:35:36 PM
Data Type: Original
Initial Sample Vol:

7-3-14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001 **Collection Date:** 7/1/2014 9:43:00 AM
Client Sample ID: FFOR-CF-0009 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.7 ✓	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.4 ✓	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.7 ✓	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.2 ✓	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Lab ID: 1407066-005 **Collection Date:** 7/1/2014 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.6 ✓	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006
Client Sample ID: FFOR-CF-0014
Collection Date: 7/1/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.1	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Lab ID: 1407066-007
Client Sample ID: FFOR-CF-0015
Collection Date: 7/1/2014 2:10:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R19655	7/2/2014 9:20:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:24:36 A**
Prep End Date: **7/2/2014 11:00:00 A**

Prep Batch ID: **14027** Prep Code: **5035_LOW** Technician: **Christina Gallegos** Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14027		Solid			5	0	0	5	1.000	7/2/2014	7/2/2014
LCS-14027		Solid			5	0	0	5	1.000	7/2/2014	7/2/2014
1407066-001A	FFOR-CF-0009	MeOH (Soil)			7.948	0	0	5	0.629	7/2/2014	7/2/2014
1407066-001AMS		MeOH (Soil)			7.9	0	0	5	0.633	7/2/2014	7/2/2014
1407066-001AMSD		MeOH (Soil)			7.9	0	0	5	0.633	7/2/2014	7/2/2014
1407066-002A	FFOR-CF-0010	MeOH (Soil)			6.917	0	0	5	0.723	7/2/2014	7/2/2014
1407066-003A	FFOR-CF-0011	MeOH (Soil)			8.349	0	0	5	0.599	7/2/2014	7/2/2014
1407066-004A	FFOR-CF-0012	MeOH (Soil)			8.218	0	0	5	0.608	7/2/2014	7/2/2014
1407066-005A	FFOR-CF-0013	MeOH (Soil)			7.627	0	0	5	0.656	7/2/2014	7/2/2014
1407066-006A	FFOR-CF-0014	MeOH (Soil)			6.745	0	0	5	0.741	7/2/2014	7/2/2014
1407066-007A	FFOR-CF-0015	MeOH (Soil)			6.88	0	0	5	0.727	7/2/2014	7/2/2014
1407139-001A	FFOR-CF-0016	MeOH (Soil)			6.76	0	0	5	0.740	7/2/2014	7/2/2014
1407139-001AMS		MeOH (Soil)			7.037	0	0	5	0.711	7/2/2014	7/2/2014
1407139-001AMSD		MeOH (Soil)			7.59	0	0	5	0.659	7/2/2014	7/2/2014
1407139-002A	FFOR-CF-0017	MeOH (Soil)			8.055	0	0	5	0.621	7/2/2014	7/2/2014
1407139-003A	FFOR-CF-0018	MeOH (Soil)			7.483	0	0	5	0.668	7/2/2014	7/2/2014
1407139-004A	FFOR-CF-0019	MeOH (Soil)			7.98	0	0	5	0.627	7/2/2014	7/2/2014
1407139-005A	FFOR-CF-0020	MeOH (Soil)			8.01	0	0	5	0.624	7/2/2014	7/2/2014
1407139-006A	FFOR-CF-0021	MeOH (Soil)			7.224	0	0	5	0.692	7/2/2014	7/2/2014
1407139-007A	FFOR-CF-0022	MeOH (Soil)			6.592	0	0	5	0.758	7/2/2014	7/2/2014
1407139-008A	FFOR-CF-0023	MeOH (Soil)			7.818	0	0	5	0.640	7/2/2014	7/2/2014
1407139-009A	FFOR-CF-0024	MeOH (Soil)			8.192	0	0	5	0.610	7/2/2014	7/2/2014
1407139-010A	FFOR-CF-0025	MeOH (Soil)			7.285	0	0	5	0.686	7/2/2014	7/2/2014
1407139-011A	FFOR-CF-0026	MeOH (Soil)			8.038	0	0	5	0.622	7/2/2014	7/2/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:24:36 A**
Prep End Date: **7/2/2014 11:00:00 A**

Prep Batch ID: **14027** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8032	8260-5035 Low LCS	lcs/ms/msd	25970	Container-01 of 01	4	µL

Soil Moisture/Correction Factor Benchsheet

Date extracted: 7-2-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/23/2014
Start time: 7-2-14 9:20am	Start Temp: 110C		Reviewed by: JL 7.3.14
End time: 7-3-14 7:17am	End Temp: 109C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
MeOH Kits								#VALUE!
1407066-001a	26.0	39.96	1.00	2.00	2.00	13.9600	0.0000	0.7163
1407066-002a	25.9	39.70	1.00	2.00	2.00	13.8000	0.0000	0.7246
1407066-003a	25.9	39.91	1.00	2.00	2.00	14.0100	0.0000	0.7138
1407066-004a	25.9	39.53	1.00	2.00	2.00	13.6300	0.0000	0.7337
1407066-005a	26.0	41.06	1.00	2.00	2.00	15.0600	0.0000	0.6640
1407066-006a	25.9	39.54	1.00	2.00	2.00	13.6400	0.0000	0.7331
1407066-007a	25.9	39.52	1.00	2.00	2.00	13.6200	0.0000	0.7342
Low Level Soil								#VALUE!
1407066-001a	31.7	39.60				7.9480		#VALUE!
1407066-002a	32.4	39.35				6.9170		#VALUE!
1407066-003a	32.8	41.10				8.3490		#VALUE!
1407066-004a	32.0	40.20				8.2180		#VALUE!
1407066-005a	32.1	39.73				7.6270		#VALUE!
1407066-006a	32.1	38.82				6.7450		#VALUE!
1407066-007a	32.4	39.29				6.8800		#VALUE!
Pmoist								#VALUE!
1407066-001a			1.32	22.69	21.26		6.6916	#VALUE!
1407066-002a			1.33	21.78	19.85		9.4377	#VALUE!
1407066-003a			1.34	22.04	20.03		9.7101	#VALUE!
1407066-004a			1.32	21.47	19.82		8.1886	#VALUE!
1407066-005a			1.33	21.58	19.84		8.5926	#VALUE!
1407066-006a			1.33	20.60	19.24		7.0576	#VALUE!
1407066-007a			1.33	21.65	19.45		10.8268	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407066-001a $\frac{22.69 - 21.26}{22.69 - 1.32} \times 100 = 6.6916\ \%$ cg 7.3.14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1407066-001a $\frac{10g}{13.960g} = 0.7163$ cg 7.3.14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001 **Collection Date:** 07/01/14 9:43:00 AM
Client Sample ID: FFOR-CF-0009 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	14014	07/02/14 12:13:32 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	14014	07/02/14 12:13:32 PM
Surr: DNOP	78.6	57.9-140		%REC	1	14014	07/02/14 12:13:32 PM

Lab ID: 1407066-002 **Collection Date:** 07/01/14 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	6.3	10	J	mg/Kg	1	14014	07/02/14 1:17:44 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	14014	07/02/14 1:17:44 PM
Surr: DNOP	81.7	57.9-140		%REC	1	14014	07/02/14 1:17:44 PM

Lab ID: 1407066-003 **Collection Date:** 07/01/14 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	14014	07/02/14 1:48:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	14014	07/02/14 1:48:13 PM
Surr: DNOP	81.9	57.9-140		%REC	1	14014	07/02/14 1:48:13 PM

Lab ID: 1407066-004 **Collection Date:** 07/01/14 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	14014	07/02/14 2:18:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	14014	07/02/14 2:18:38 PM
Surr: DNOP	81.8	57.9-140		%REC	1	14014	07/02/14 2:18:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-005 **Collection Date:** 07/01/14 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	14014	07/02/14 2:49:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	14014	07/02/14 2:49:26 PM
Surr: DNOP	81.3	57.9-140		%REC	1	14014	07/02/14 2:49:26 PM

Lab ID: 1407066-006 **Collection Date:** 07/01/14 11:51:00 AM
Client Sample ID: FFOR-CF-0014 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	33	9.9		mg/Kg	1	14014	07/02/14 3:20:12 PM
Motor Oil Range Organics (MRO)	62	49		mg/Kg	1	14014	07/02/14 3:20:12 PM
Surr: DNOP	83.8	57.9-140		%REC	1	14014	07/02/14 3:20:12 PM

Lab ID: 1407066-007 **Collection Date:** 07/01/14 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	14014	07/02/14 3:50:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	14014	07/02/14 3:50:55 PM
Surr: DNOP	84.8	57.9-140		%REC	1	14014	07/02/14 3:50:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 7:23:16 A**
Prep End Date:

Reviewed By: JE 7.3.14

Prep Batch ID: **14014** Prep Code: **8015_S_PREP** Technician: **Janice Easley**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14014		Soil	JE	7/2/14	10	0	0	10	1.000	7/2/2014	JE 7/2/14
LCS-14014		Soil			10	0	0	10	1.000	7/2/2014	
1407066-001A	FFOR-CF-0009	MeOH (Soil)			10	9.95	0	0	10	1.000	7/2/2014
1407066-002A	FFOR-CF-0010	MeOH (Soil)			10	9.94	0	0	10	1.000	7/2/2014
1407066-003A	FFOR-CF-0011	MeOH (Soil)			10	10.18	0	0	10	1.000	7/2/2014
1407066-004A	FFOR-CF-0012	MeOH (Soil)			10	10.14	0	0	10	1.000	7/2/2014
1407066-005A	FFOR-CF-0013	MeOH (Soil)			10	9.95	0	0	10	1.000	7/2/2014
1407066-006A	FFOR-CF-0014	MeOH (Soil)			10	10.13	0	0	10	1.000	7/2/2014
1407066-007A	FFOR-CF-0015	MeOH (Soil)			10	10.08	0	0	10	1.000	7/2/2014
1407068-001A	SC-5	MeOH (Soil)			10	10.11	0	0	10	1.000	7/2/2014
1407069-001A	SC-1	Soil			10	9.94	0	0	10	1.000	7/2/2014
1407069-001AMS		Soil			10	9.93	0	0	10	1.000	7/2/2014
1407069-001AMSD		Soil			10	10.00	0	0	10	1.000	7/2/2014
1407069-002A	SC-2	Soil			10	9.99	0	0	10	1.000	7/2/2014
1407069-003A	SC-3	Soil			10	9.99	0	0	10	1.000	7/2/2014
1407069-004A	SC-4	Soil			10	9.97	0	0	10	1.000	7/2/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4455	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4549	Methylene Chloride	14925	Container-01 of 01	0	mL
Chemical	4552	Sodium Sulfate	14934	Container-01 of 01	0	mL

JE 7/2/14

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
[illegible]	5,000ppm diesel, 500ppm DNOP	LCS	25890	Container-01 of 01	100	uL
[illegible]	1,000ppm DNOP	SAMP	25891	Container-01 of 01	100	uL

Calibration Summary

Instrument: FID#2 Date: 06/10/14

Method: 8015D

Calibration Name: DRDFID#2 06104, met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☑	☐	☐	☑	
MRO	☑	☐	☐	☑	
DNOP (Surr)	N/A	N/A	☐	☑	

Additional Notes:

Analyst: Janice Easley

QA: John Caldwell

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

Sequence Print

JR 7/3/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1406D88-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-002A <D>.dat	1
6	Unknown	0	1	1406D88-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D88-003A <D>.dat	1
7	Unknown	0	1	MB-14014	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14014 <D>.dat	1
8	Unknown	0	1	LCS-14014	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14014 <D>.dat	1
9	Unknown	0	1	1407068-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407068-001A <D>.dat	1
10	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
11	Unknown	0	1	1407066-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-001A <D>.dat	1
12	Unknown	0	1	1407066-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A <D>.dat	1
13	Unknown	0	1	1407066-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A <D>.dat	1
14	Unknown	0	1	1407066-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-003A <D>.dat	1
15	Unknown	0	1	1407066-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-004A <D>.dat	1
16	Unknown	0	1	1407066-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-005A <D>.dat	1
17	Unknown	0	1	1407066-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-006A <D>.dat	1
18	Unknown	0	1	1407066-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-007A <D>.dat	1

JL 7-3-14

19	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
20	Unknown	0	1	MB-13990	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-13990 <D>.dat	1
21	Unknown	0	1	LCS-13990	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-13990 <D>.dat	1
22	Unknown	0	1	1406D72-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-001A <D>.dat	1
23	Unknown	0	1	1406D72-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-002A <D>.dat	1
24	Unknown	0	1	1406D72-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-003A <D>.dat	1
25	Unknown	0	1	1406D72-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-004A <D>.dat	1
26	Unknown	0	1	1406D72-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-005A <D>.dat	1
27	Unknown	0	1	1406D72-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-006A <D>.dat	1
28	Unknown	0	1	1406D72-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-007A <D>.dat	1
29	Unknown	0	1	1406D72-008A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1406D72-008A <D>.dat	1
30	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
31	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
32	Unknown	0	1	MB-14040	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14040 <D>.dat	1
33	Unknown	0	1	LCS-14040	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14040 <D>.dat	1
34	Unknown	0	1	1407096-001C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001C <D>.dat	1
35	Unknown	0	1	1407096-001CMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001CMS <D>.dat	1
36	Unknown	0	1	1407096-001CMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-001CMSD <D>.dat	1
37	Unknown	0	1	1407096-002C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-002C <D>.dat	1

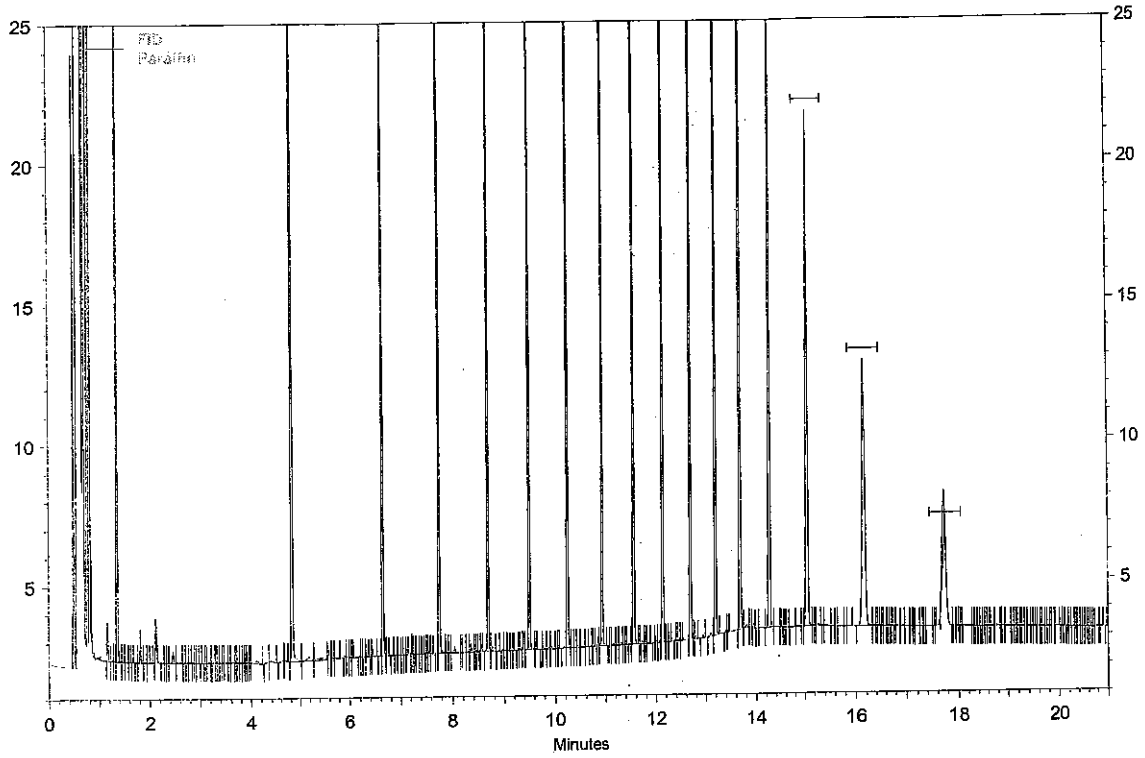
JR 7/3/14

Sequence Print

38	Unknown	0	1	1407096-003C	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407096-003C <D>.dat	1
39	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

Instument: **FID 2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1473**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 07-02-14 7-28-35 AM.dat
Aquired: 7/2/2014 7:37:41 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.35	57335	0.000
C10	4.83	69935	0.000
C12	6.64	67488	0.000
C14	7.75	66759	0.000
C16	8.68	66932	0.000
C18	9.50	66908	0.000
C20	10.24	67543	0.000
C22	10.92	66563	0.000
C24	11.55	65477	0.000
C26	12.14	67172	0.000
C28	12.68	67759	0.000
C30	13.19	67970	0.000
C32	13.67	65727	0.000
C34	14.26	57577	0.000
C36	15.05	45455	0.000
C38	16.15	34174	0.000
C40	17.74	34	0.000

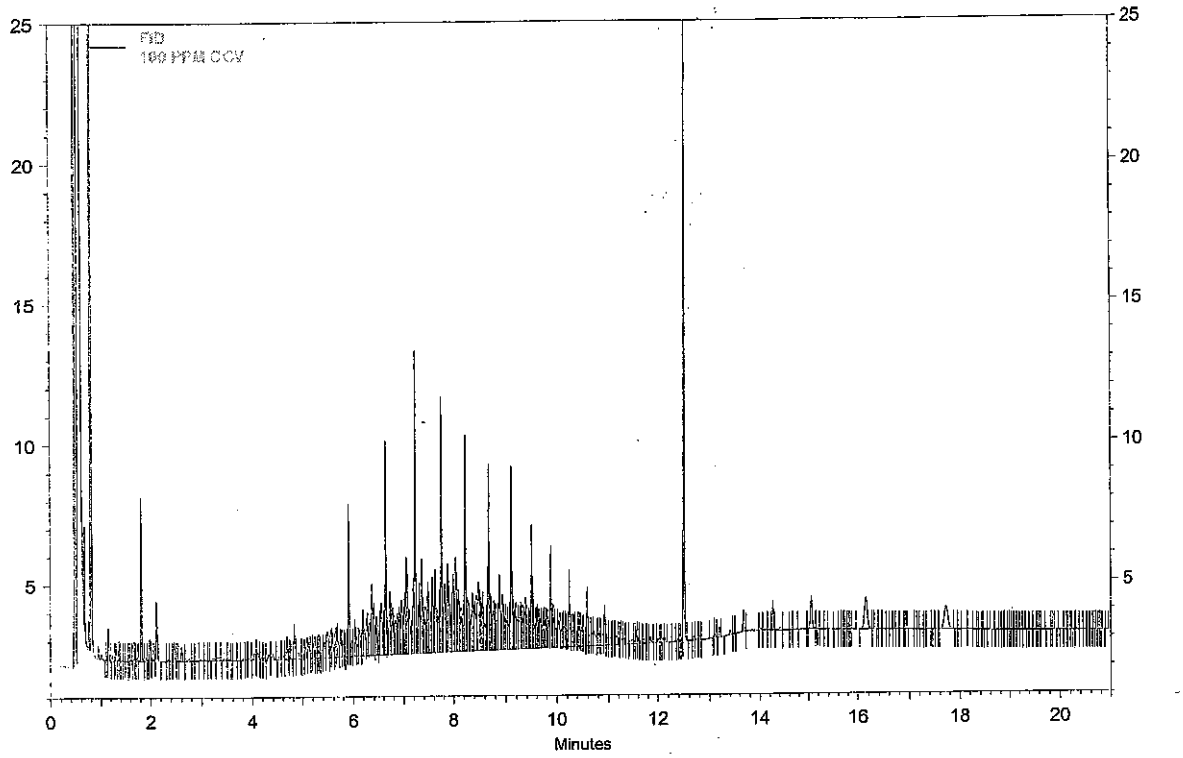
OK

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 7-58-53 AM.dat
Aquired: 7/2/2014 8:08:04 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	26826	10.278
DRO		373426	119.405
MRO		19069	0.000

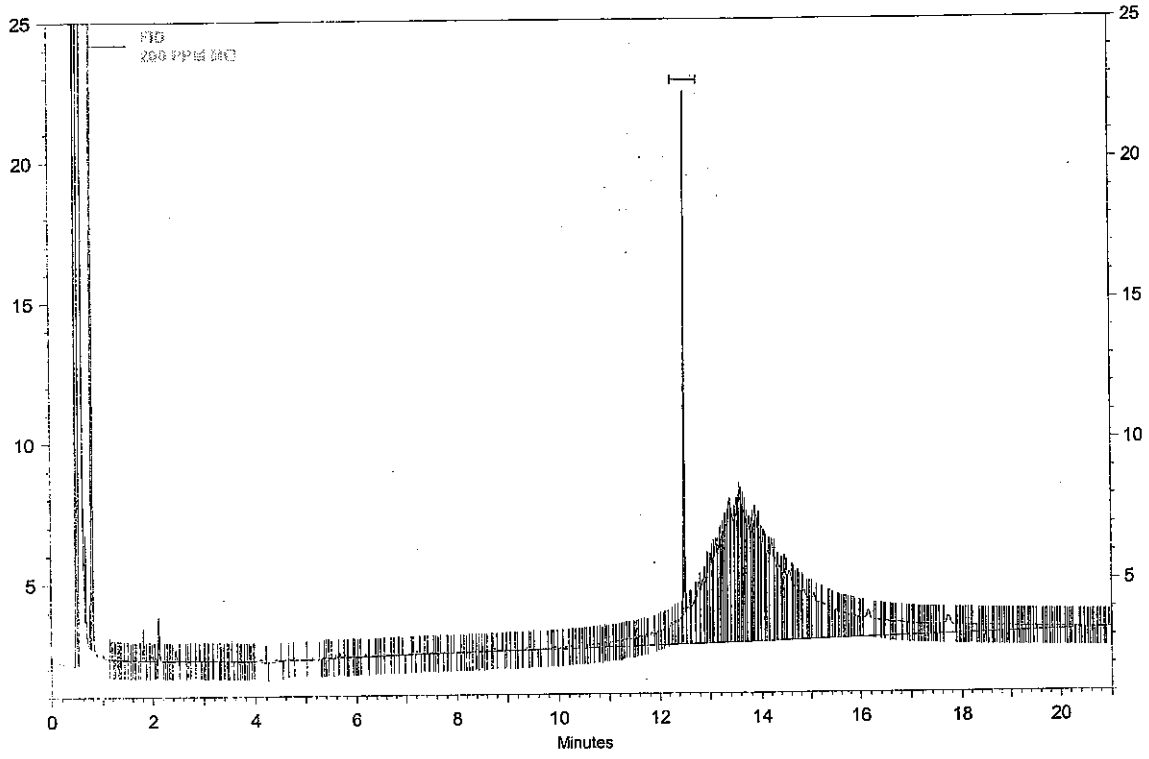
Analyst _____

Reviewed By _____

use new CCV

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-02-14 8-29-26 AM.dat
Aquired: 7/2/2014 8:38:20 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	25950	9.938
DRO		31694	6.303
MRO		470809	178.870

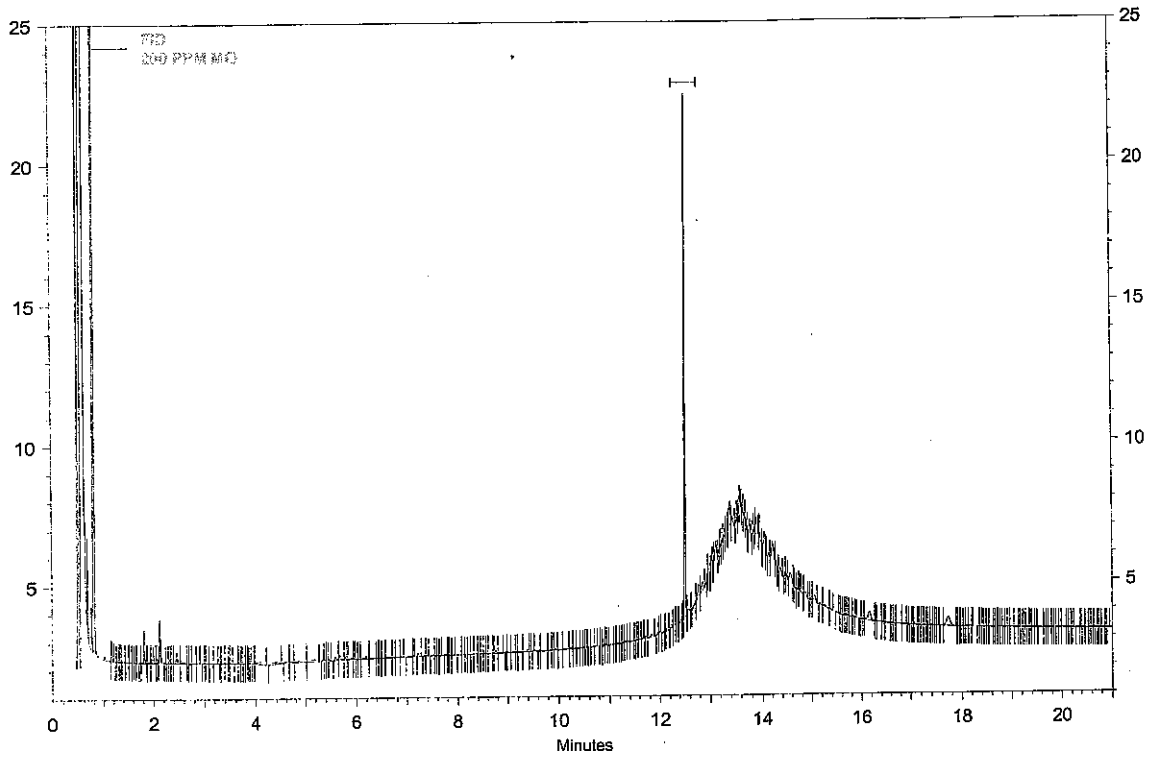
Analyst _____

Reviewed By _____

9.938
-8.165
1.773
+178.870
180.643
2000
x 100 = 90.3215%

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 07-02-14 8-29-26 AM.dat
Aquired: 7/2/2014 8:38:20 AM



FID Results

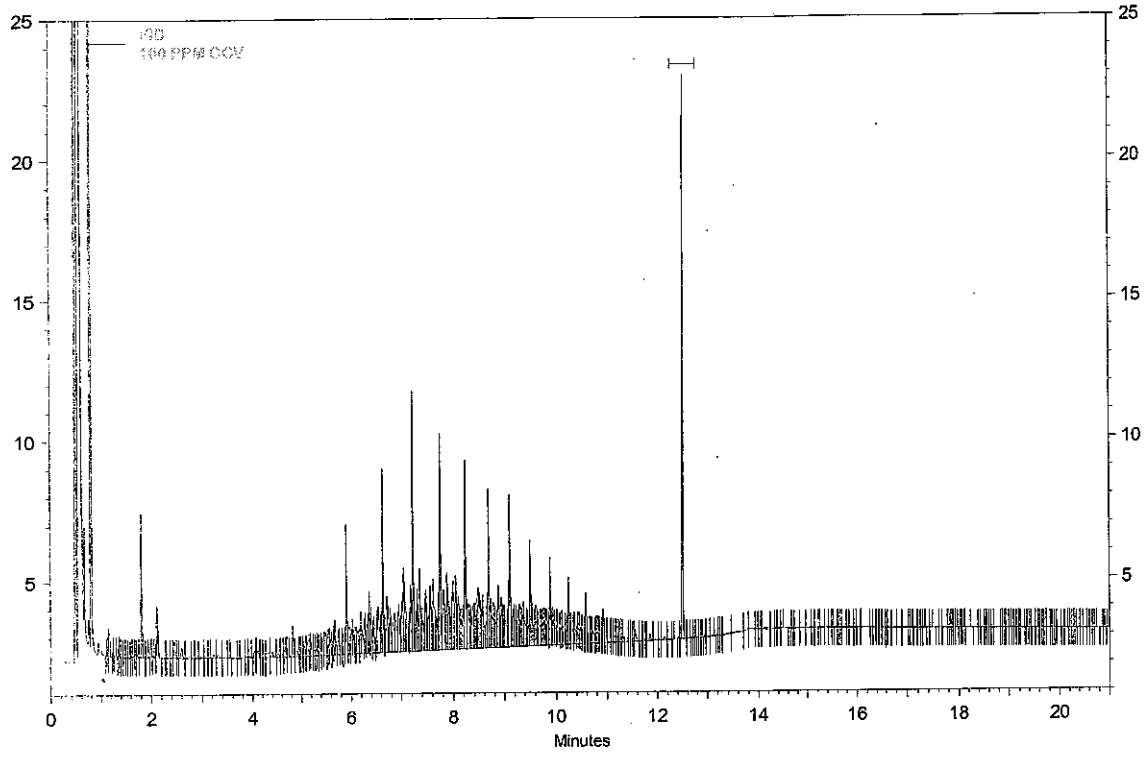
Name	Retention Time	Area	ug/ml
DNOP	12.49	21386	8.165
DRO		6621	0.000
MRO		23263	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 11-33-58 AM.dat
Aquired: 7/2/2014 11:43:07 AM



FID Results

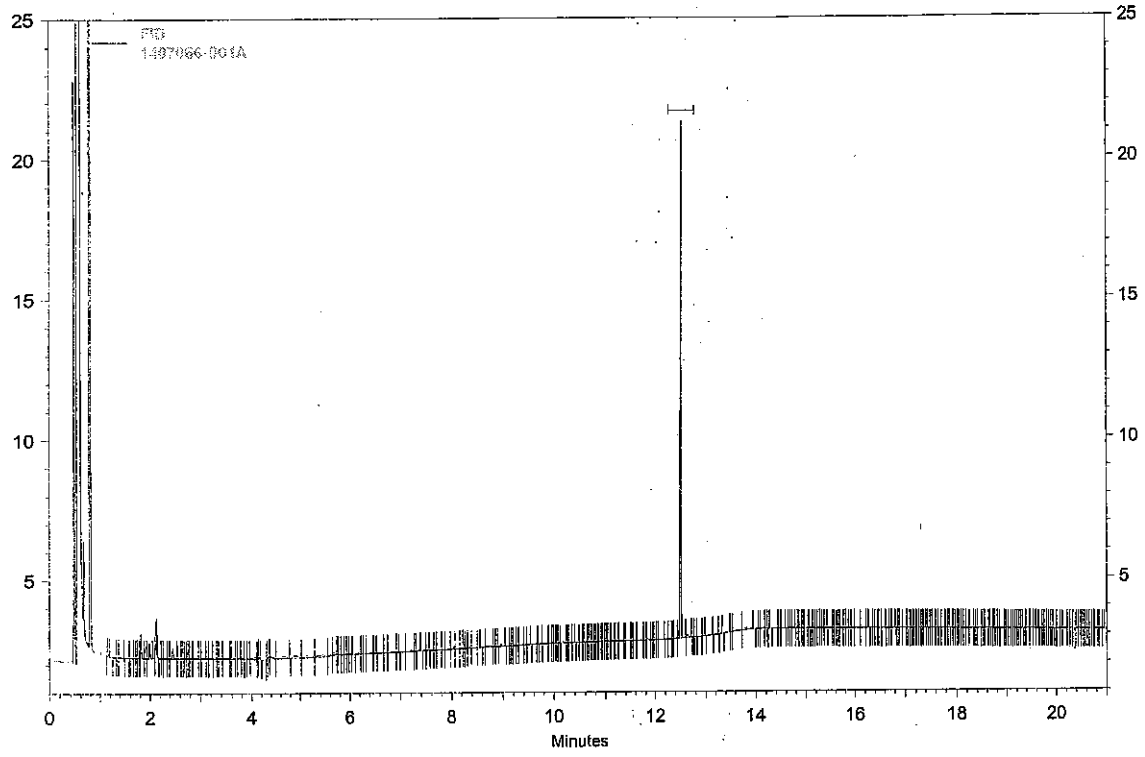
Name	Retention Time	Area	ug/ml
DNOP	12.49	23306	8.911
DRO		325186	103.461
MRO		3477	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **10** User: **System**
Sample ID: **1407066-001A** Data Descritpion: **SOIL, RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-001A 07-02-14 12-05-25 PM.dat
Aquired: 7/2/2014 12:13:32 PM



FID Results

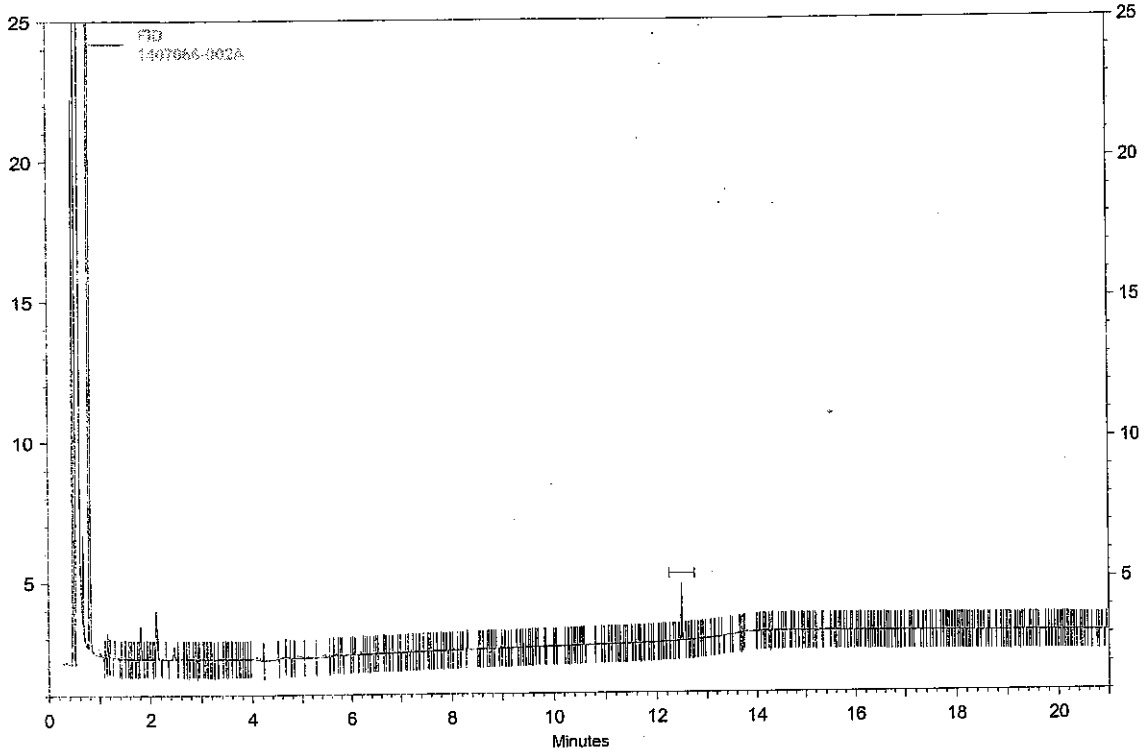
Name	Retention Time	Area	ug/ml
DNOP	12.49	20596	7.858
DRO		5989	0.000
MRO		3005	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1407066-002A** Data Descritpion: **SOIL RUSH X10**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A 07-02-14 12-45-54 PM.dat
Aquired: 7/2/2014 12:47:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	2364	0.755
DRO		5410	0.000
MRO		3232	0.000

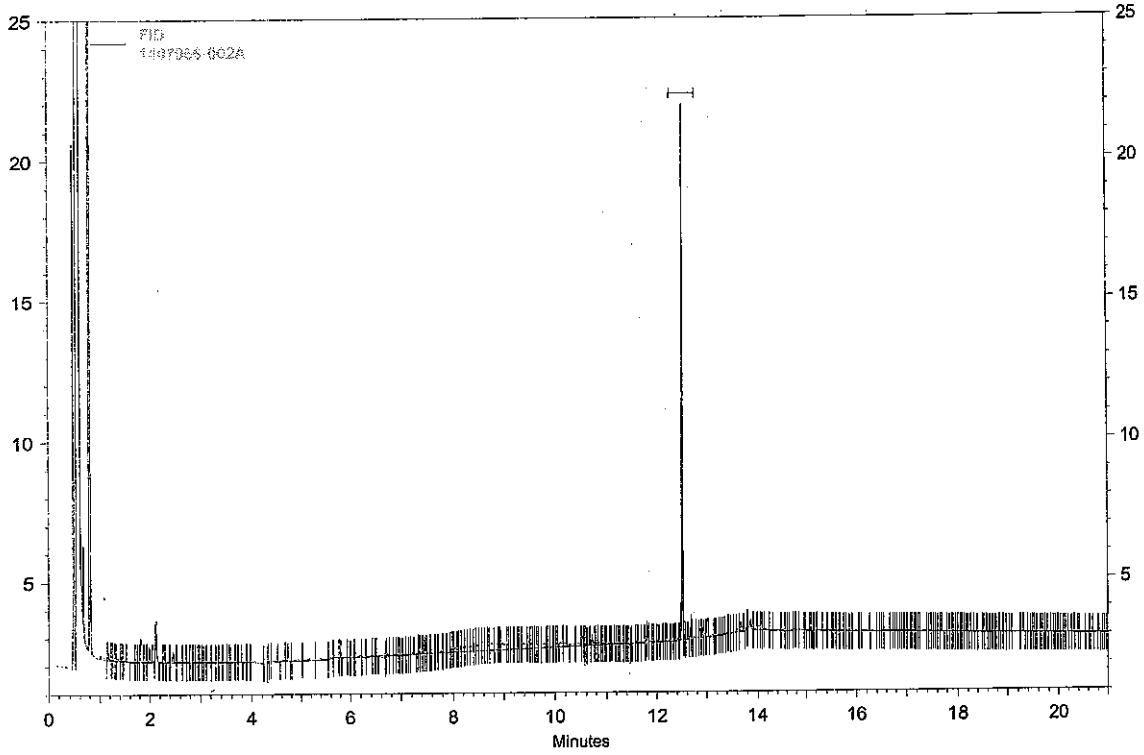
Analyst _____

Reviewed By _____

RR x 1

Instument: **FID 2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1407066-002A** Data Descritpion: **SOIL RUSH RR X1**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-002A 07-02-14 1-15-54 PM.dat
Aquired: 7/2/2014 1:17:44 PM



FID Results

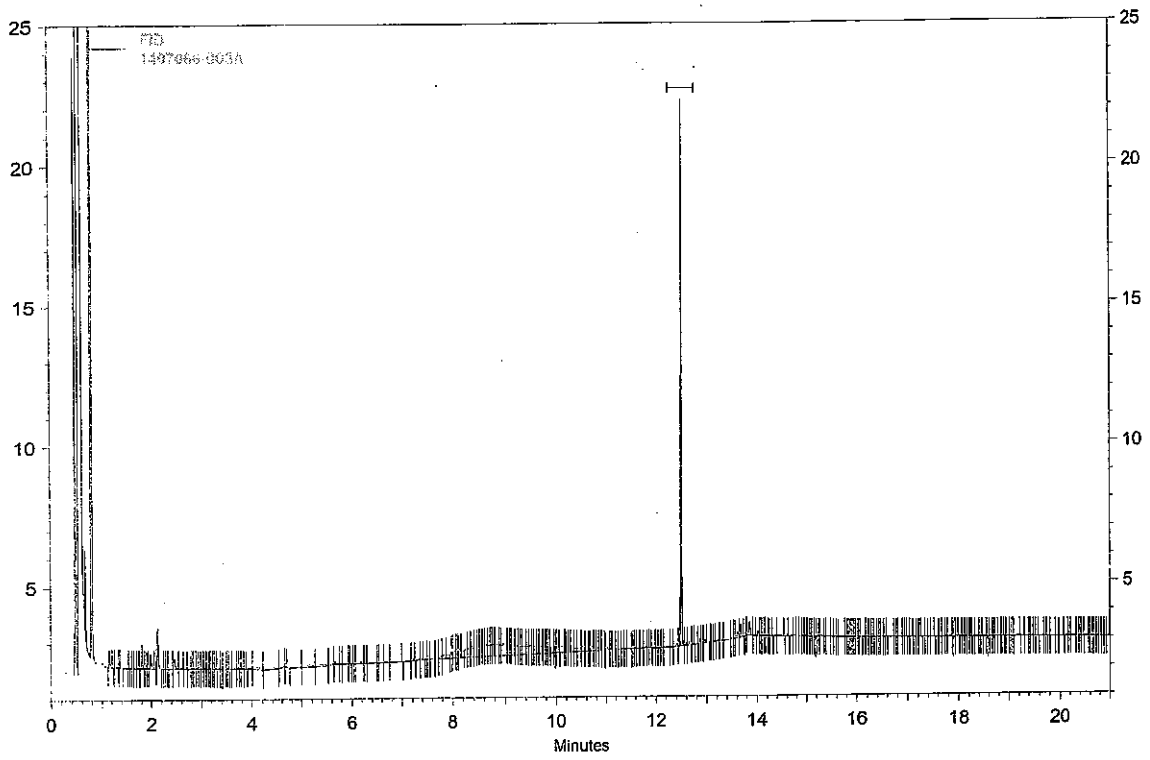
Name	Retention Time	Area	ug/ml
DNOP	12.49	21397	8.169
DRO		31433	6.217
MRO		6327	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **12** User: **System**
Sample ID: **1407066-003A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-003A 07-02-14 1-39-07 PM.dat
Aquired: 7/2/2014 1:48:13 PM



FID Results

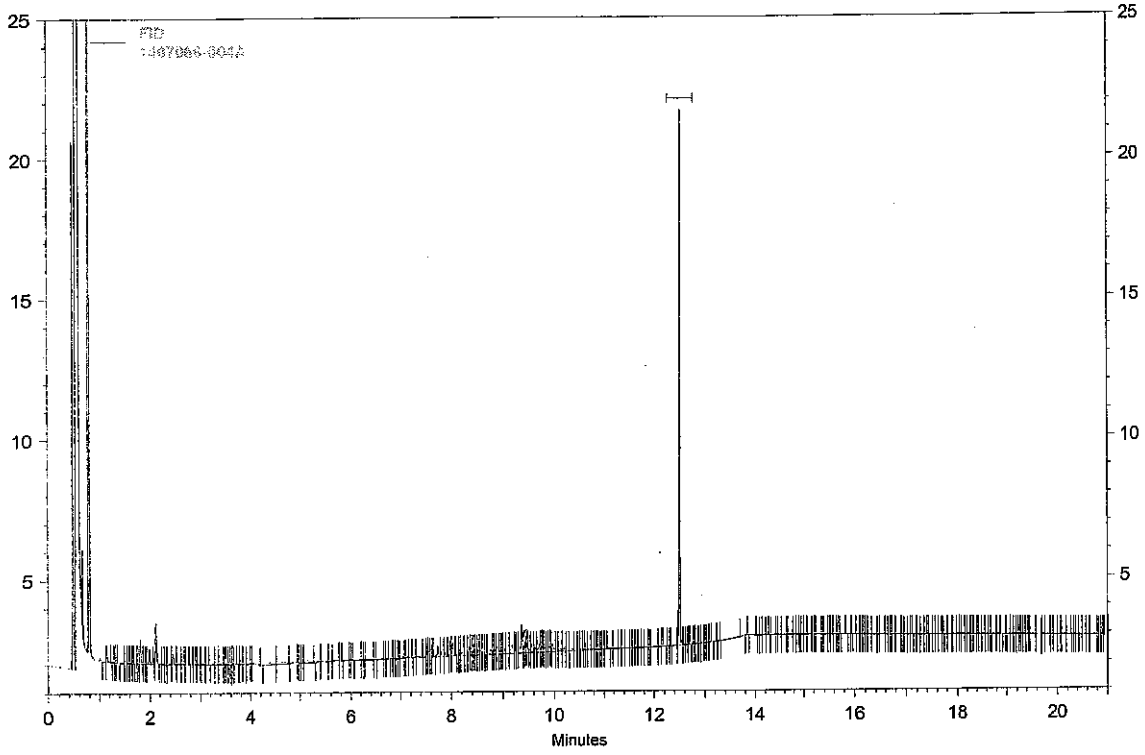
Name	Retention Time	Area	ug/ml
DNOP	12.49	21440	8.186
DRO		48703	11.941
MRO		6308	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **13** User: **System**
Sample ID: **1407066-004A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-004A 07-02-14 2-09-26 PM.dat
Aquired: 7/2/2014 2:18:38 PM



FID Results

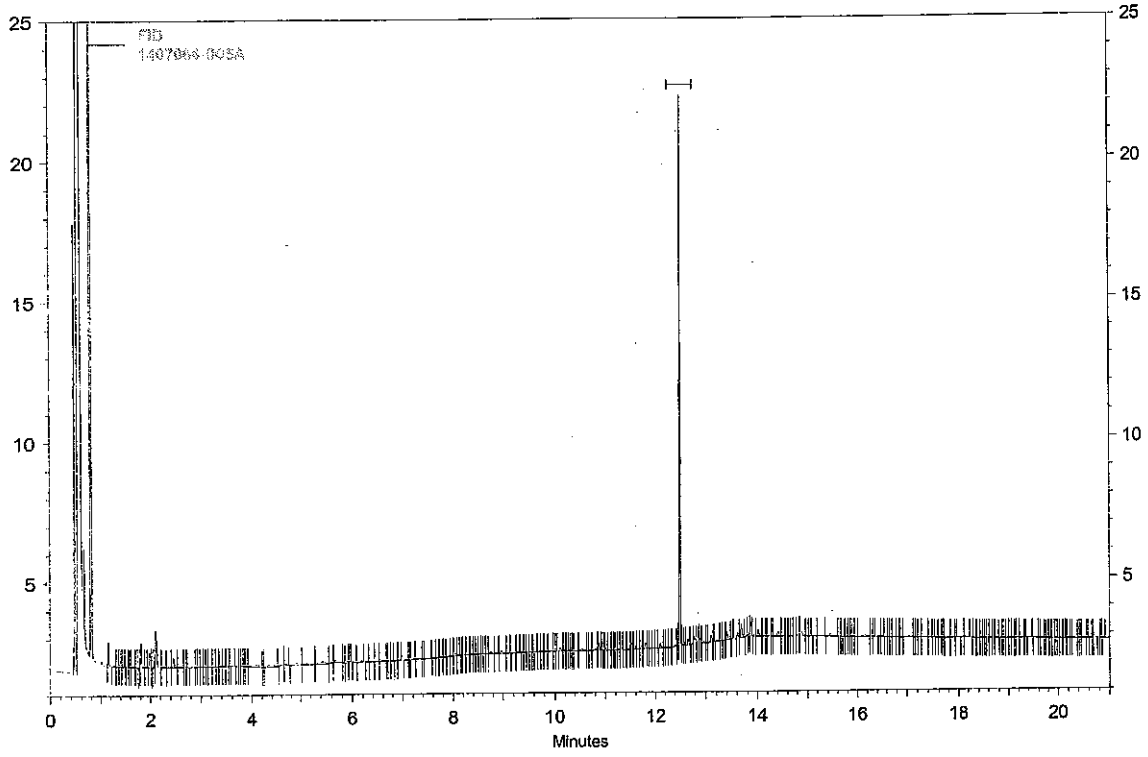
Name	Retention Time	Area	ug/ml
DNOP	12.49	21432	8.183
DRO		24980	4.077
MRO		2669	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **14** User: **System**
Sample ID: **1407066-005A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-005A 07-02-14 2-39-59 PM.dat
Aquired: 7/2/2014 2:49:26 PM



FID Results

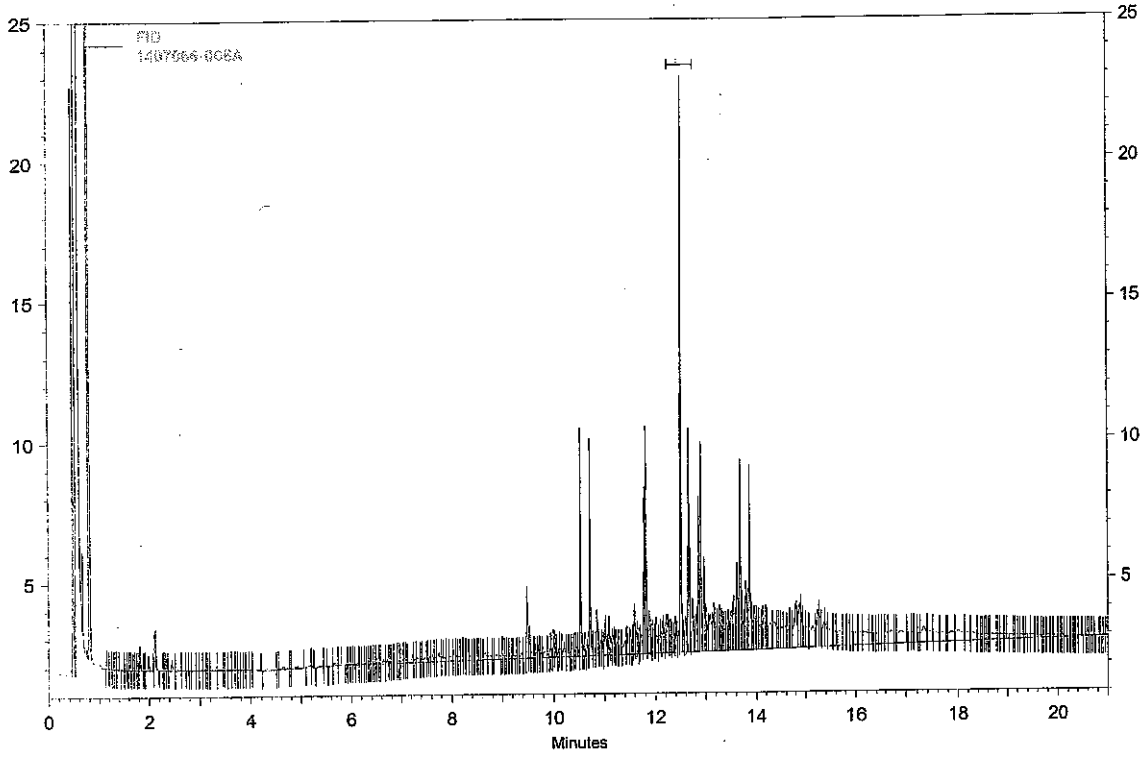
Name	Retention Time	Area	ug/ml
DNOP	12.49	21307	8.134
DRO		8187	0.000
MRO		8950	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1407066-006A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-006A 07-02-14 3-10-50 PM.dat
Aquired: 7/2/2014 3:20:12 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	24292	9.294
DRO		114412	33.713
MRO		249370	62.104

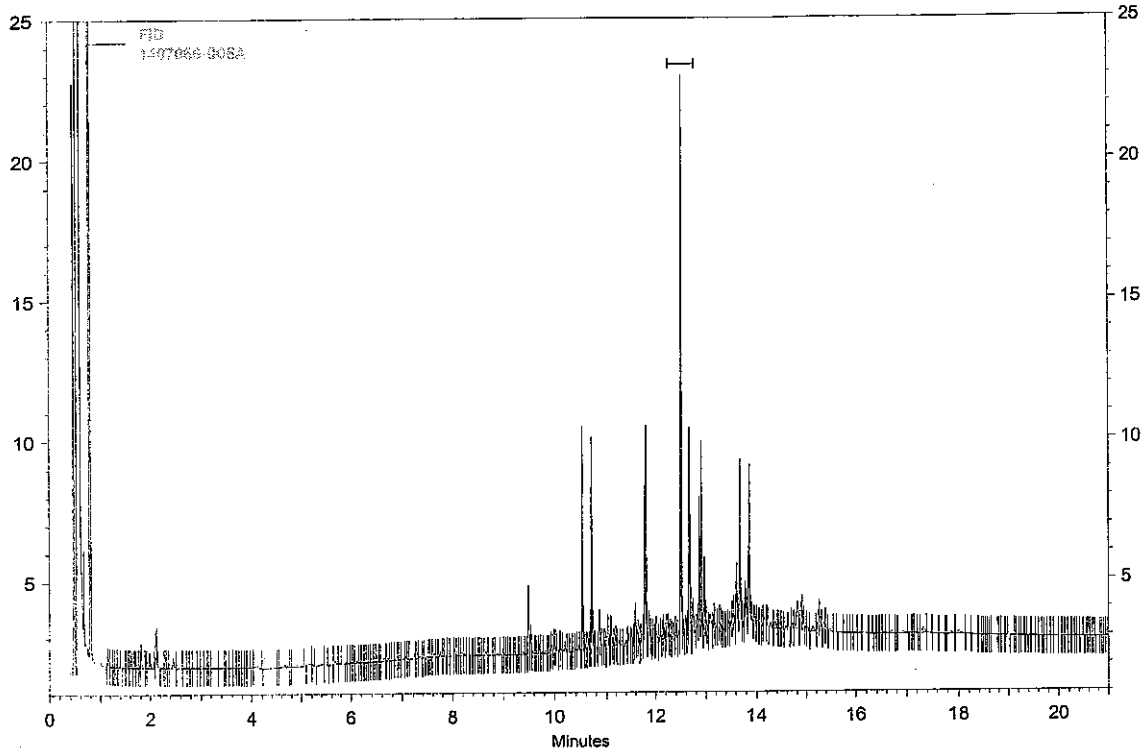
Analyst _____

Reviewed By _____

9.294
-8379
0.915
+62.104
63.019

Instument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1407066-006A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-006A 07-02-14 3-10-50 PM.dat
Aquired: 7/2/2014 3:20:12 PM



FID Results

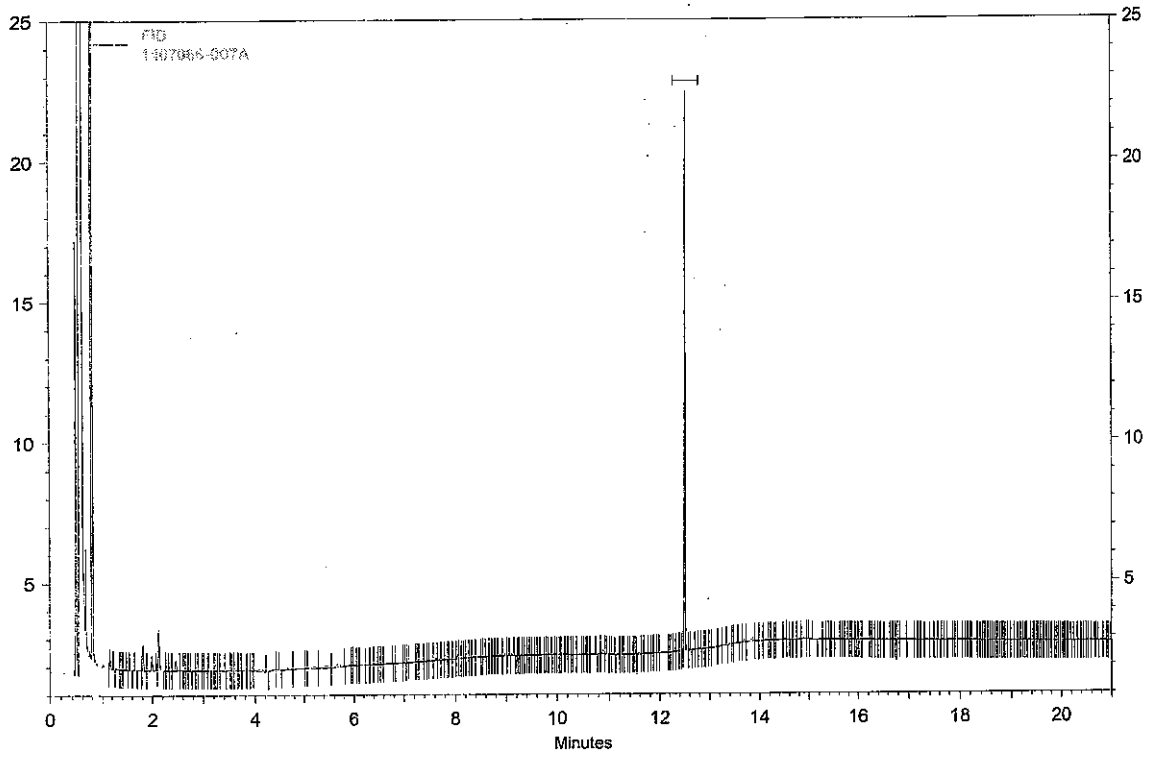
Name	Retention Time	Area	ug/ml
DNOP	12.49	21937	8.379
DRO		52125	13.075
MRO		57049	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **1407066-007A** Data Descritpion: **SOIL RUSH**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407066-007A 07-02-14 3-45-39 PM.dat
Aquired: 7/2/2014 3:50:55 PM



FID Results

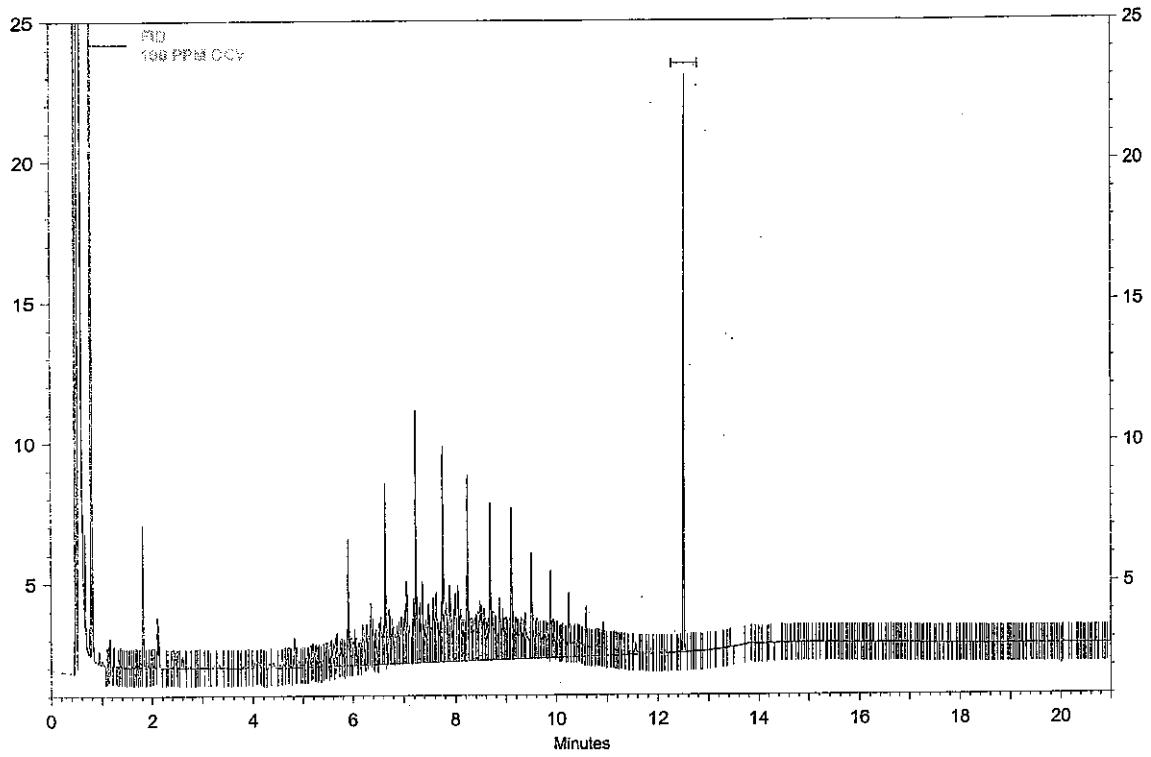
Name	Retention Time	Area	ug/ml
DNOP	12.49	22190	8.477
DRO		6914	0.000
MRO		3669	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 4-12-12 PM.dat
Aquired: 7/2/2014 4:21:34 PM



FID Results

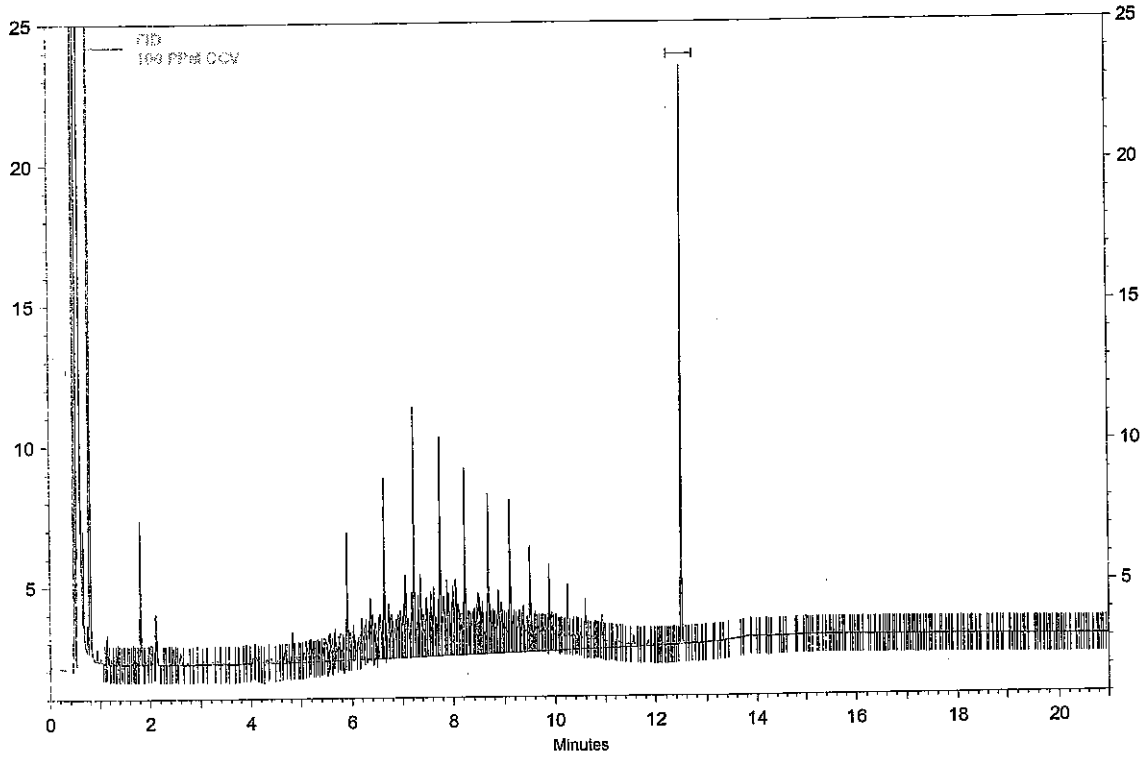
Name	Retention Time	Area	ug/ml
DNOP	12.49	23346	8.927
DRO		314548	99.944
MRO		2710	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-02-14 10-19-20 PM.dat
Aquired: 7/2/2014 10:28:25 PM



FID Results

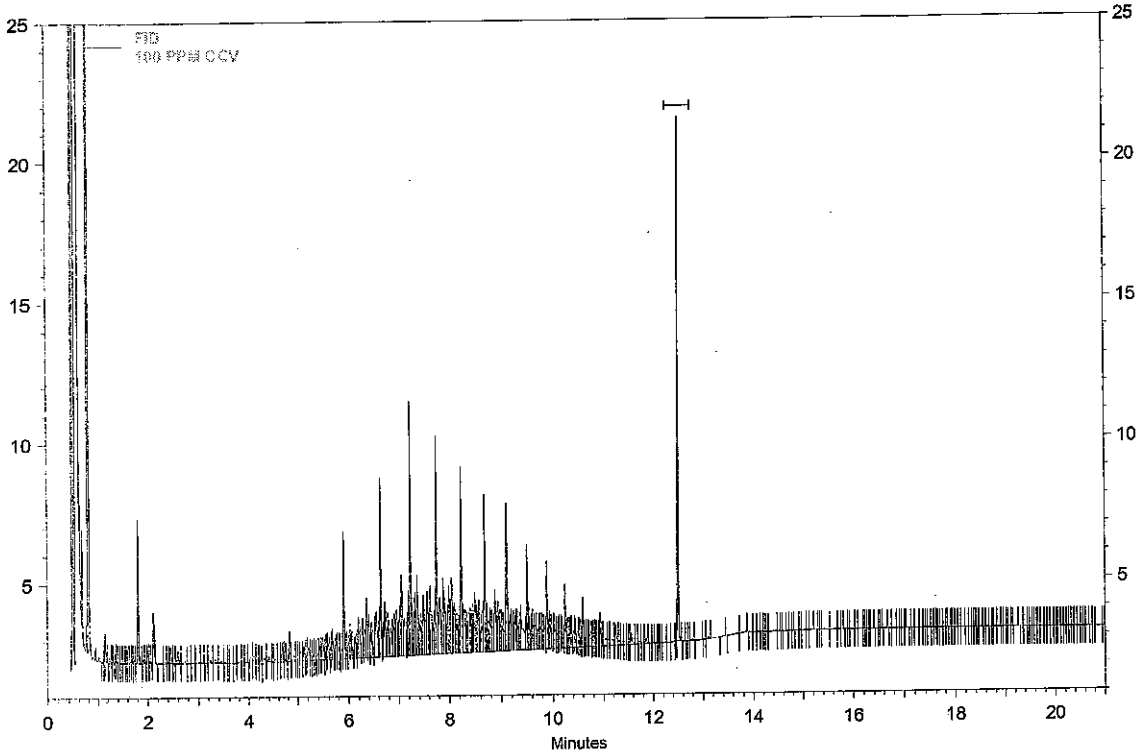
Name	Retention Time	Area	ug/ml
DNOP	12.49	23282	8.902
DRO		318650	101.300
MRO		2400	0.000

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-03-14 2-22-48 AM.dat
Aquired: 7/3/2014 2:32:00 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	21463	8.195
DRO		305571	96.976
MRO		2385	0.000

Analyst _____

Reviewed By _____

Sequence File

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1000 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO<D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

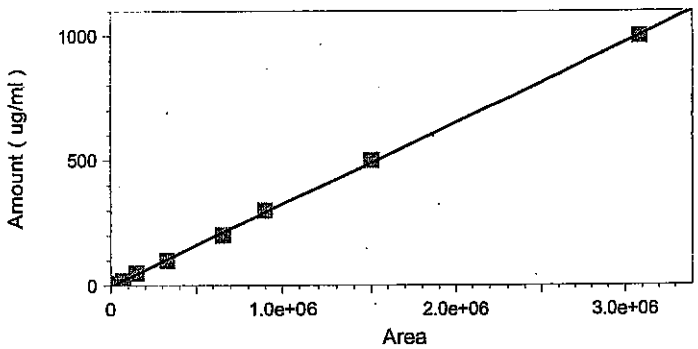
IV
6.11.14

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000290499 RF StDev: 6.74961e-005 RF %RSD: 23.2346
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.55824e-012x^2 + 0.000331597x - 4.20499
Goodness of fit (r^2): 0.999542

Group: DRO -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	33465	35387	71554	149816	328395
RF	0.000119527	0.00028258965	0.000279509181	0.000333742724	0.0003045113
Last Area	864933513	156696	876625	408608	35434462
Residual	-2.89017	2.47271	0.485855	4.56138	-4.52186
Rep StDev					
Rep %RSD					
Rep 1 Area	33465	35387	71554	149816	328395
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 06-10-14 10-37-48 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 06-10-14 11-01-02 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 06-10-14 11-30-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 06-10-14 12-00-17 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 06-10-14 12-30-17 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014 8:18:28 AM	6/11/2014 8:18:44 AM	6/11/2014 8:18:56 AM	6/11/2014 8:19:08 AM	6/11/2014 8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	657869	900062	1501075	3084596
RF	0.000304011	0.00033331037	0.000333094615	0.000324191563
	892945252	1952154	52554	498105
Last Area				
Residual	-13.2682	7.00919	9.96362	-3.81251
Rep StDev				
Rep %RSD				
Rep 1 Area	657869	900062	1501075	3084596
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

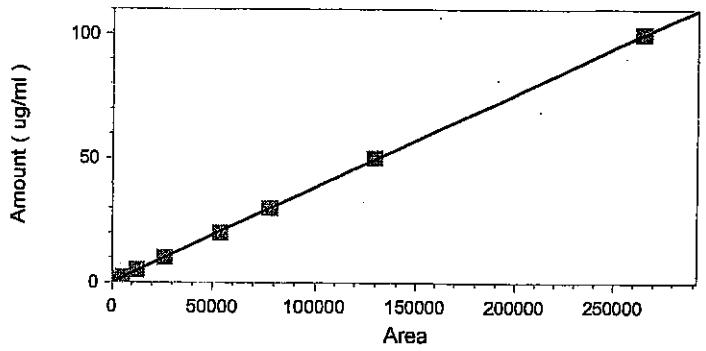
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000378339 RF StDev: 1.07205e-005 RF %RSD: 2.83356
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.58389e-011x^2 + 0.000390628x - 0.168023
Goodness of fit (r^2): 0.999894 ✓

JR 6/10/14

Peak: DNOP -- ESTD -- FID



JR 6.11.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	1038	2715	5566	12714	26459
RF	0.000385356	0.00036832412	0.000359324469	0.000393267264	0.0003779432
Last Area	454720617	5230203	996407	432909	32926414
Residual	0.1626	0.107806	-0.0047928	0.208987	-0.135515
Rep StDev					
Rep %RSD					
Rep 1 Area	1038	2715	5566	12714	26459
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 06-10-14 10-37-48 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 06-10-14 11-01-02 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 06-10-14 11-30-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 06-10-14 12-00-17 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 06-10-14 12-30-17 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014 8:18:28 AM	6/11/2014 8:18:44 AM	6/11/2014 8:18:56 AM	6/11/2014 8:19:08 AM	6/11/2014 8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	53946	77805	129208	264869
RF	0.000370741	0.00038557933	0.000386972942	0.000377545126
Last Area	111481852	2947754	851836	081195
Residual	-0.771401	0.0526954	0.461015	-0.0813953
Rep StDev				
Rep %RSD				
Rep 1 Area	53946	77805	129208	264869
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

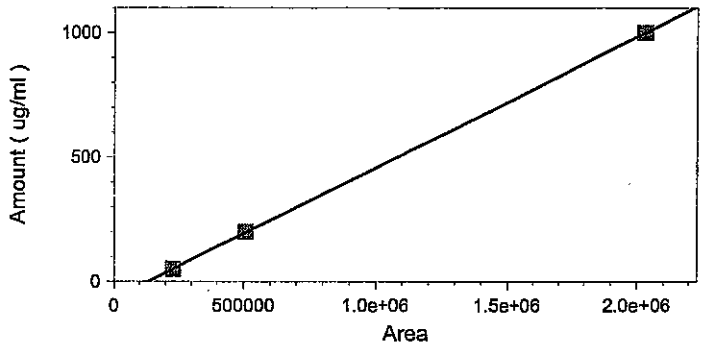
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:59 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000368377 RF StDev: 0.000139230 RF %RSD: 37.7954
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000527306x - 69.3905
Goodness of fit (r^2): 0.999989

J JR 6/10/14

Group: MRO -- ESTD -- FID



JR 6.11.14

	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	229267	507508	2028547
RF	0.000218086	0.00039408245	0.000492963682
	336018703	7813473	872519
Last Area			
Residual	-1.50338	1.77839	-0.275011
Rep StDev			
Rep %RSD			
Rep 1 Area	229267	507508	2028547
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 06-10-14 3-29-42 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 06-10-14 3-59-24 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO06-10-14 4-29-27 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1000 PPM MO
Rep 1 Calib. Time	6/11/2014 8:20:29 AM	6/11/2014 8:20:44 AM	6/11/2014 8:20:56 AM

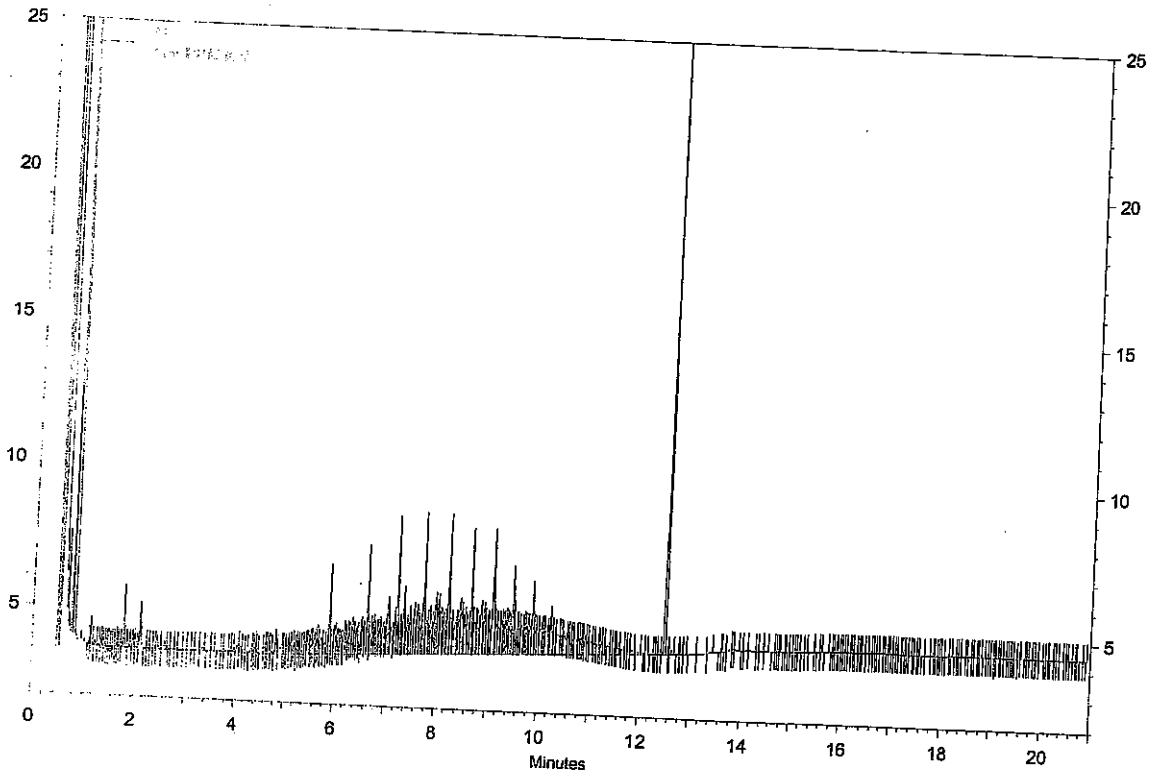
Sample ID: **100 PPM ICV**

Vial #: **10**

Data Descritpion: **SV109-1483**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 06-10-14 3-00-09 PM.dat
Aquired: 6/10/2014 3:08:28 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	25363	9.710
DRO		292549	92.670
MRO		3081	0.000

±20%

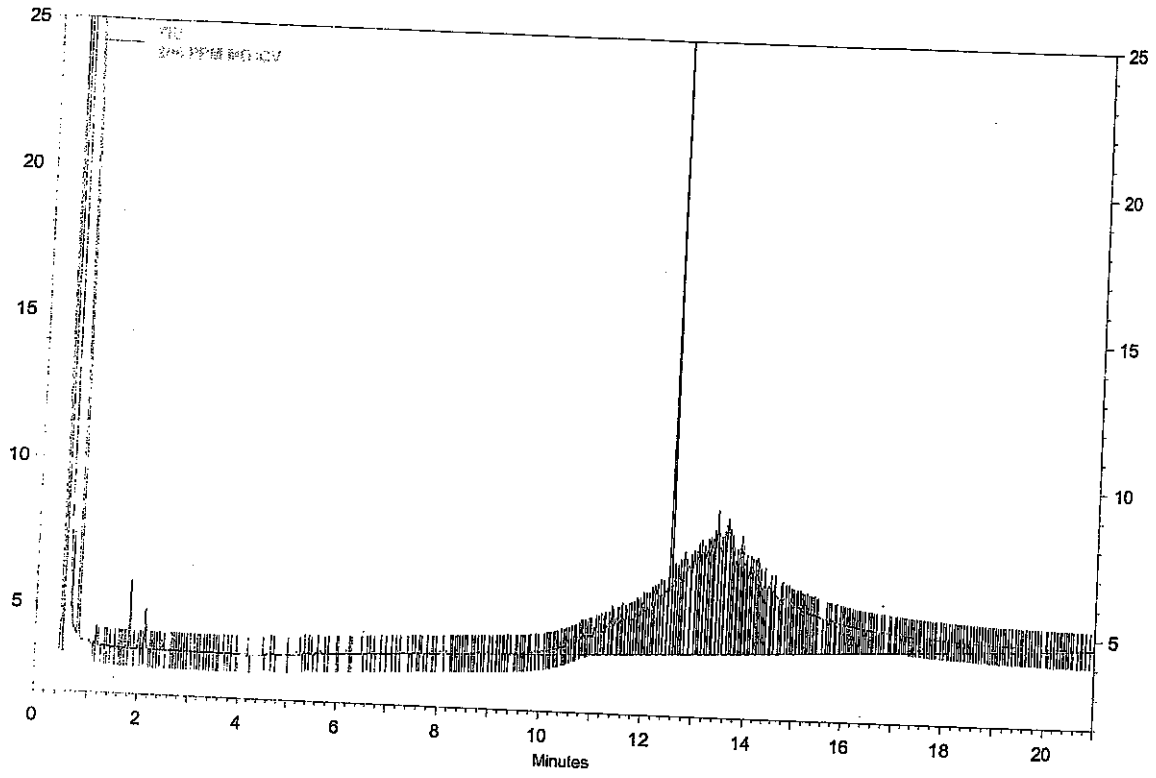
Analyst _____

Reviewed By _____

Sample ID: **200 PPM MO ICV** Vial #: **14** User: **System**

Data Descritpion: **SV109-1487**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP			
DRO	12.50	36292	13.948
MRO		100298	29.038
		506623	197.755

Analyst JE

Reviewed By JC

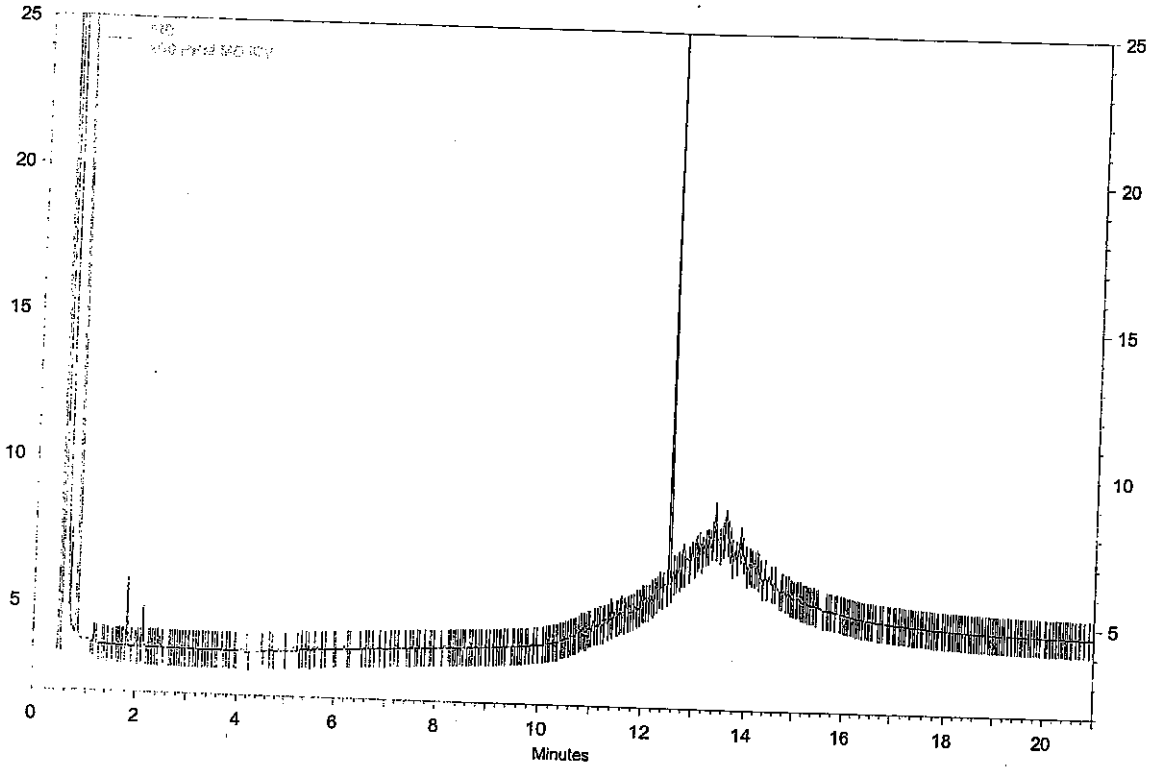
13.948
-10.574
3.374
+197.755
201.129

±20% /

201.129 / 200 ×100 = 100.5645%

Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1487** User: **System**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	27588	10.574
DRO		11171	0.000
MRO		19497	0.000

Analyst _____

Reviewed By _____

WB 7/3/14

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-001 **Collection Date:** 7/1/2014 9:43:00 AM
Client Sample ID: FFOR-CF-0009 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg-dry	1	R19656	7/3/2014 12:18:40 AM
Surr: BFB	112	61.2-137		%REC	1	R19656	7/3/2014 12:18:40 AM

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg-dry	1	R19656	7/3/2014 12:46:36 AM
Surr: BFB	121	61.2-137		%REC	1	R19656	7/3/2014 12:46:36 AM

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg-dry	1	R19656	7/3/2014 1:14:27 AM
Surr: BFB	120	61.2-137		%REC	1	R19656	7/3/2014 1:14:27 AM

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg-dry	1	R19656	7/3/2014 1:42:20 AM
Surr: BFB	125	61.2-137		%REC	1	R19656	7/3/2014 1:42:20 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-005 **Collection Date:** 7/1/2014 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg-dry	1	R19656	7/3/2014 2:10:10 AM
Surr: BFB	119	61.2-137		%REC	1	R19656	7/3/2014 2:10:10 AM

Lab ID: 1407066-006 **Collection Date:** 7/1/2014 11:51:00 AM
Client Sample ID: FFOR-CF-0014 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg-dry	1	R19656	7/3/2014 2:37:59 AM
Surr: BFB	117	61.2-137		%REC	1	R19656	7/3/2014 2:37:59 AM

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg-dry	1	R19656	7/3/2014 3:05:55 AM
Surr: BFB	119	61.2-137		%REC	1	R19656	7/3/2014 3:05:55 AM

Lab ID: 1407066-008 **Collection Date:**
Client Sample ID: Methanol Blank **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Surr: BFB	117	61.2-137		%REC	1	R19656	7/3/2014 3:33:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0614v\062314v all crvs\gro\2.5ug gro icv 6-2 **Acquisition Date:** 6/24/2014 18:42

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0614v\062314v all CRVs\GRO\2.5ug gro crv 6-24-2014.SMS

Cal. Sample Dates: First: 6/24/2014 17:18 **Last:** 6/24/2014 17:18

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.66	ug	2.50	106 %	80 - 120	PASS

* indicates Internal Standard.

6/26/14

✓ RAA 6/26/14

Analyst: RAA

arian Star Workstation - Generic SampleList Wed Jul 02 15:23:10 2014

ampleList: C:\VarianWS\070214v.smp

reated: Wed Jul 02 07:39:35 2014
odified: Wed Jul 02 15:22:32 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-1994	
2	5mL-rb	below tune @ 8:25
	Notes All injections contain V-52-0458	
3	2.5ug gro ccv	below @ 8:53
	Notes V-18-2044	
4	2.5ug gro lcs	below
	Notes V-18-2036	
5	50ng ccv	below @ 9:49
	Notes V-54-0428	
6	200ng annex ccv	below
	Notes V-11-8029	
7	100ng lcs	below
	Notes V-11-8033	
8	vcb	none tune @ 11:13
9	headspc 1406b35-001a	below LF
	Notes x1-50mL AIR	
10	1406b35-001a dup	below
	Notes x1-50mL AIR	
11	1406b35-002a	below
	Notes x1-50mL AIR	
12	1406b35-003a	below
	Notes x1-50mL AIR	
13	1406b35-004a	below
	Notes x1-50mL AIR	
14	1407077-001a	below
	Notes x1-5mL AXIS	
15	1407077-001a ms	below
	Notes V-11-8033	
16	1407077-001a msd	below
	Notes V-11-8033	
17	1407077-002a	below
	Notes x1-5mL AXIS TB	
18	1406d88-001a	below
	Notes x1-100uL MeOH GRO	
19	1406d88-002a	below
	Notes x1-100uL MeOH GRO	
20	1406d88-003a	below
	Notes x1-100uL MeOH GRO	
21	1406d88-004a	below
	Notes x1-100uL MeOH GRO	
22	1406d88-005a	below
	Notes x1-100uL MeOH GRO	
23	1406d88-006a	below
	Notes x1-100uL MeOH GRO	
24	1406d88-007a	below
	Notes x1-100uL MeOH GRO	
25	1406d88-008a	below
	Notes x1-100uL MeOH GRO	
26	1406d88-009a	below
	Notes x1-100uL MeOH Blk 8260, GRO	
27	1406d88-001a ms	below rr
	Notes x1-100uL MeOH GRO	@ 8:35
28	1406d88-001a msd	below rr
	Notes x1-100uL MeOH GRO	
29	1406c22-011a ms4	below
	7/3/14 001a Notes V-54-0418	
30	1406c22-011a msd4	below @ 9:31
	7/3/14 001a Notes V-54-0418	
31	rtm	below
	Notes V-18-1994	
32	bl	none tune @ 10:27
33	100ng ccv	below
	Notes V-54-0428	
34	2.25ug gro ccv	below
	Notes V-18-2044	

Loaded By: DA 7.2.14
1st Review By: A 7.3.14 (RJH 7/3/14)
QA'd By: WB 7/3/14

36	1407066-001a	below	
	Notes	x1-100uL MeOH GRO	
37	1407066-002a	below	
	Notes	x1-100uL MeOH GRO	
38	1407066-003a	below	
	Notes	x1-100uL MeOH GRO	
39	1407066-004a	below	
	Notes	x1-100uL MeOH GRO	
40	1407066-005a	below	
	Notes	x1-100uL MeOH GRO	
41	1407066-006a	below	
	Notes	x1-100uL MeOH GRO	
42	1407066-007a	below	
	Notes	x1-100uL MeOH GRO	
43	1407066-008a	below	
	Notes	x1-100uL MeOH Blk 8260, GRO	
44	1406d72-001a	below	
	Notes	x1-100uL MeOH	
45	1406d72-001a ms	below	
	Notes	V-11-8033	
46	1406d72-001a msd	below	
	Notes	V-11-8033	
47	1406d72-002a	below	
	Notes	x1-100uL MeOH	
48	1406d72-003a	below	
	Notes	x1-100uL MeOH	
49	1406d72-004a	below	
	Notes	x1-100uL MeOH	
50	1406d72-005a	below	
	Notes	x1-100uL MeOH @C:49	
51			

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070214v.rcl.

Loaded By: 7.2.14
1st Review By: 7.3.14 KJH 7/3/14
QA'd By: JNB7/3/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114v GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	X	☐	☐	X	

8260 annex

Calibration Name: 062914v 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	X	☐	☐	high - rr hits
Acrylonitrile	X	☐	☐	☐	
Isobutyl alcohol	☐	X	☐	☐	high - rr hits
1,4-Dioxane	X	☐	☐	☐	
trans-1,4-Dichloro-2-butene	X	☐	☐	☐	

Analyst: RA 7-2-14

QA: [illegible] NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): data\2014v\0714v\070314v\gro\2.5ug gro ccv 7-2-2014.SMS Lab Sample ID: 2.5ug gro ccv

Instrument ID: VAL Date Analyzed: 7/2/2014 Time Analyzed: 08:53

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	86505	14.31										
UPPER LIMIT	173010	14.81										
LOWER LIMIT	43253	13.81										
EPA SAMPLE NO												
rtm 7-2-20	89175	14.31										
5mL-rb 7-2	83295	14.30										
2.5ug gro	87993	14.30										
1406d88-00	67828	14.31										
1406d88-00	65482	14.31										
1406d88-00	64602	14.31										
1406d88-00	66038	14.31										
1406d88-00	60872	14.31										
1406d88-00	64855	14.31										
1406d88-00	62453	14.31										
1406d88-00	63627	14.31										
1406d88-00	61783	14.31										
1406d88-00	62170	14.31										
1406d88-00	62927	14.31										
rtm 7-2-20	75385	14.31										
2.25ug gro	82806	14.31										

7.3.14

JDB 7/3/14

7/3/2014 9:45

Analyst: RAA

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1											
1407066-00	76483	14.30										
1407066-00	66959	14.30										
1407066-00	67984	14.30										
1407066-00	63210	14.30										
1407066-00	66105	14.31										
1407066-00	68258	14.31										
1407066-00	67906	14.30										
1407066-00	65372	14.30										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

RA 7-3-14

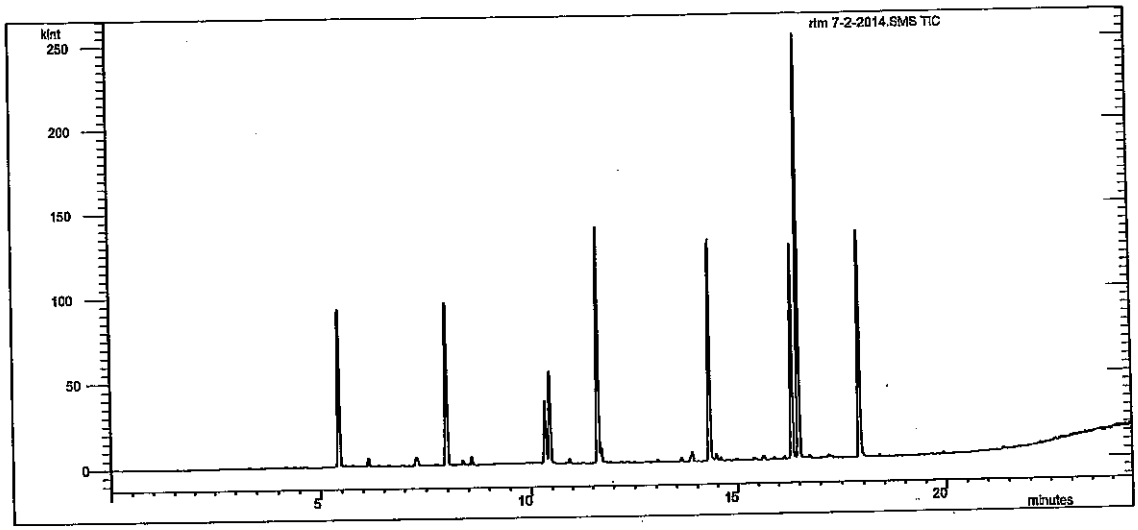
JB 7/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 7:57:49 AM
Calculation Date:	7/2/2014 9:20:29 AM				

LTCQL 7-7-2014



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1190	Identified	89175	50.000
GRO	11.000	898	Identified	2.620E6	0.205
BFB	16.339	1369	Identified	92598	51.744

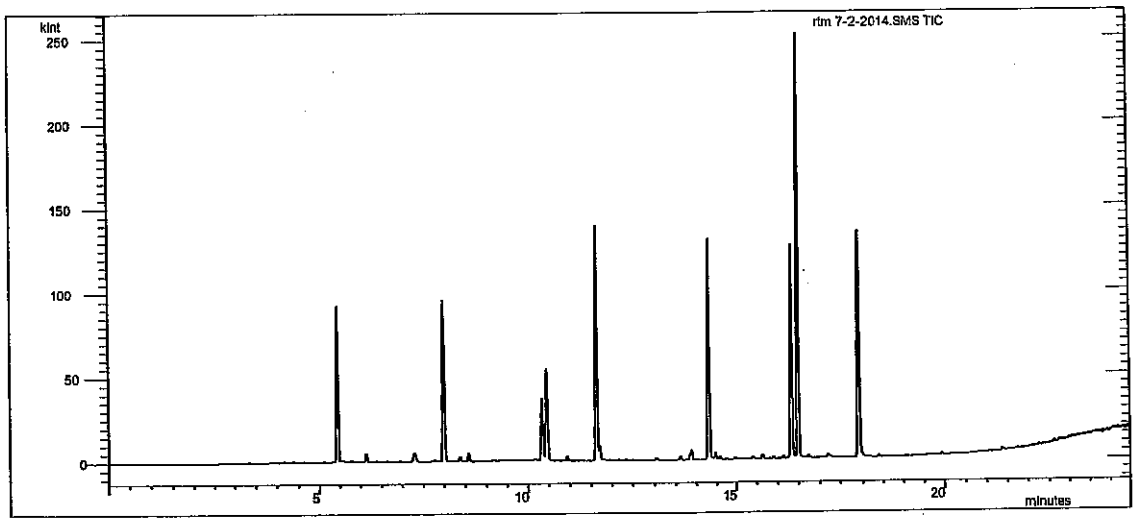
```
**********************************************************
Revision Log
**********************************************************

7/2/2014 8:22 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:20 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

NB 7/3/14

8260B/624 Report

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 7:57:49 AM
Calculation Date:	7/2/2014 8:22:18 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.990	633	Identified	62427	50.000
Benzene-d5-, chloro-	14.308	1190	Identified	89655	50.000
1,4-Dichlorobenzene-d4	17.912	1507	Identified	50284	50.000
Dichlorodifluoromethane	2.898	184	Identified	726	0.473
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.345	223	Identified	1086	1.866
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	378	Missing		N/A
Acetone	5.348	400	Identified	1920	1.350
Carbon disulfide	5.388	404	Failed	519	N/A
Iodomethane	5.600	423	Identified	836	26.511
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.638	514	Identified	3819	38.309
trans-1,2-DCE	6.730	522	Missing		N/A
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.290	571	Identified	8353	1.077
Vinyl Acetate	7.362	578	Missing		N/A
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.651	603	Missing		N/A
1,1,1-Trichloroethane	8.325	662	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	667	Missing		N/A
1,1-Dichloropropene	8.399	669	Missing		N/A
Carbon Tetrachloride	8.628	689	Missing		N/A
cis-1,2-DCE	9.047	726	Missing		N/A
Benzene	9.193	739	Identified	1061	0.283
Chloroform	9.604	775	Missing		N/A
Bromochloromethane	10.018	812	Missing		N/A
Trichloroethene (TCE)	10.203	828	Missing		N/A
Dibromofluoromethane	10.332	839	Identified	83615	45.255
1,2-Dichloroethane-d4	10.446	849	Identified	244960	44.059
1,2-Dichloroethane (EDC)	10.554	859	Missing		N/A
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.858	886	Identified	923	2.140
Toluene-d8	11.632	954	Identified	152826	44.892
Toluene	11.711	961	Identified	9465	1.786
2-Chloroethyl vinyl ether	11.978	984	Missing		N/A
Tetrachloroethene (PCE)	12.187	1003	Missing		N/A
cis-1,3-dichloropropene	12.189	1003	Missing		N/A
2-Hexanone	12.196	1004	Missing		N/A
Bromodichloromethane	12.257	1009	Missing		N/A
Dibromomethane	12.364	1018	Missing		N/A
1,3-Dichloropropane	13.266	1098	Missing		N/A
trans-1,3-dichloropropene	13.328	1103	Missing		N/A
Ethylbenzene	13.612	1128	Identified	2457	0.213
mp-Xylenes	13.878	1152	Identified	7602	1.076
1,1,2-Trichloroethane	14.080	1169	Missing		N/A
Chlorobenzene	14.341	1193	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1198	Missing		N/A
o-Xylene	14.581	1214	Identified	1836	0.078
1,1,1,2-Tetrachloroethane	14.722	1226	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.780	1231	Missing		N/A
Styrene	15.176	1266	Missing		N/A
n-Propylbenzene	15.406	1286	Identified	1381	0.202
1,3,5-Trimethylbenzene	15.898	1330	Identified	993	0.011
tert-Butylbenzene	16.103	1348	Missing		N/A
2-Chlorotoluene	16.252	1361	Missing		N/A
4-Bromofluorobenzene	16.339	1369	Identified	92598	46.526
sec-Butylbenzene	16.375	1372	Missing		N/A
4-Chlorotoluene	16.418	1375	Missing		N/A
Bromobenzene	16.458	1379	Missing		N/A
1,2,4-Trimethylbenzene	16.495	1382	Identified	192115	41.990
4-Isopropyltoluene	16.668	1398	Missing		N/A
Bromoform	17.002	1427	Missing		N/A
1,2,3-Trichloropropane	17.173	1442	Missing		N/A
n-Butylbenzene	17.286	1452	Identified	779	0.277
1,1,2,2-Tetrachloroethane	17.595	1479	Missing		N/A
1,3-Dichlorobenzene	17.677	1486	Missing		N/A
1,4-Dichlorobenzene	17.950	1510	Missing		N/A
1,2-Dichlorobenzene	18.557	1564	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1703	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1729	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1765	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1845	Missing		N/A
Naphthalene	21.751	1846	Missing		N/A
2-Methylnaphthalene	23.236	1981	Missing		N/A
1-Methylnaphthalene	23.626	2017	Missing		N/A

****
Revision Log
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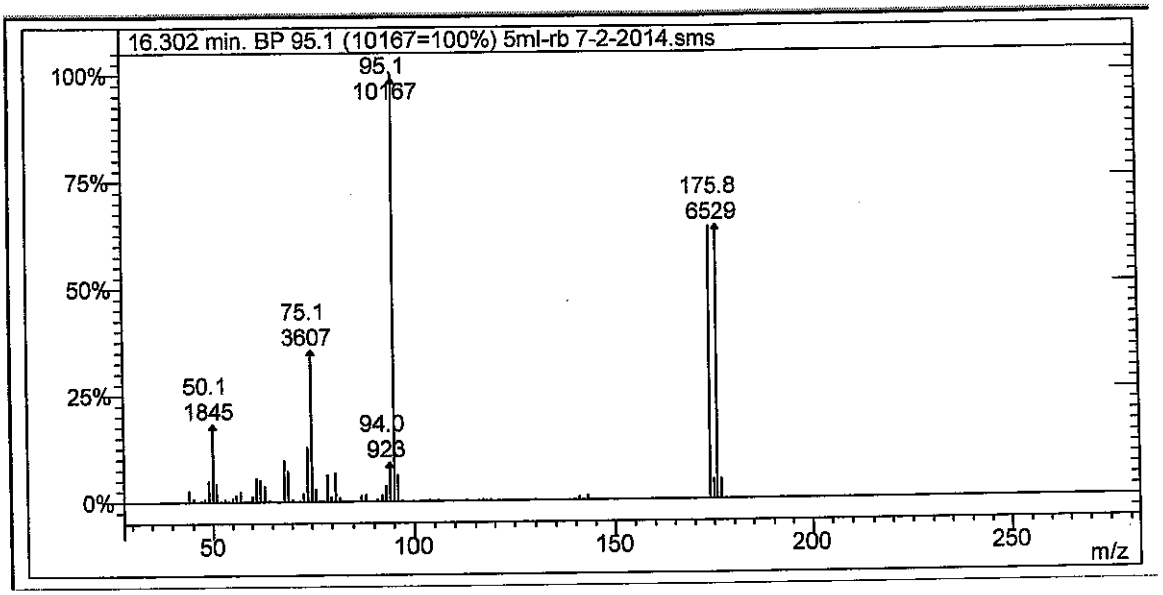
7/2/2014 8:22 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

BFB 8260B Report



Lab File ID: 5ml-rb 7-2-2014.sms

Injection Date: 7/2/2014

Injection Time: 8:25

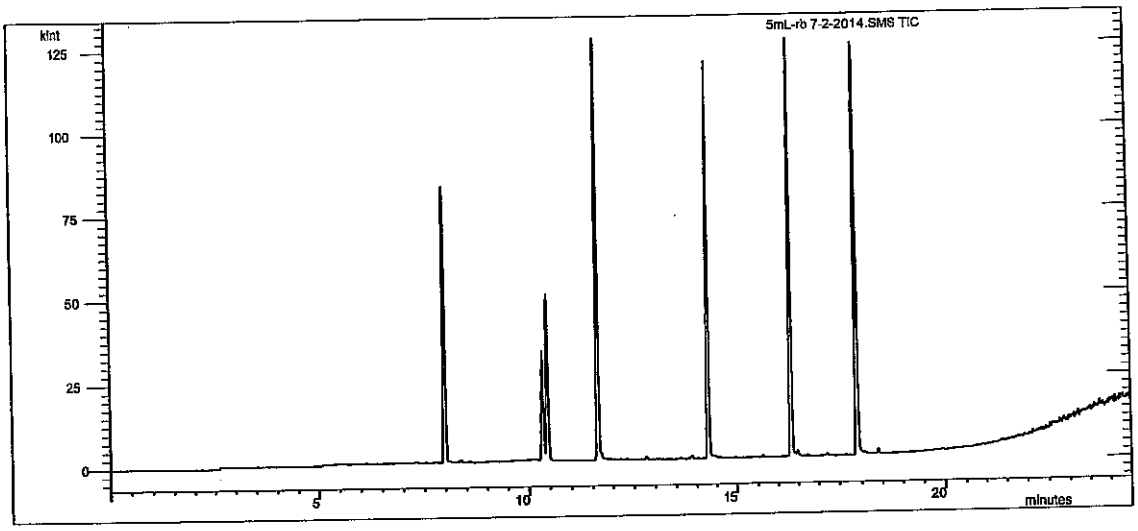
m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.15	PASS
75	30-60% of m/z 95	35.48	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.15	PASS
173	<2% of m/z 174	0.18	PASS
174	>50% of m/z 95	63.85	PASS
175	5-9% of m/z 174	7.19	PASS
176	>95% but <101% of m/z 174	100.57	PASS
177	5-9% of m/z 176	7.15	PASS

JNB 7/3/14

RA 7-3-14

8260B/624 Report

Sample Name:	5mL-rb	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	All injections contain V-52-0458	**Acquisition Date:**	7/2/2014 8:25:44 AM
Calculation Date:	7/2/2014 10:59:07 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.988	633	Identified	55090	50.000
Benzene-d5-, chloro-	14.303	1189	Identified	83490	50.000
1,4-Dichlorobenzene-d4	17.908	1506	Identified	48646	50.000
Acrolein	5.616	424	Missing		N/A
Acrylonitrile	8.397	669	Missing		N/A
Isobutyl Alcohol	10.815	882	Missing		N/A
1,4-Dioxane	11.096	906	Missing		N/A
trans-1,4-Dichloro-2-butene	17.104	1436	Missing		N/A

****
Revision Log
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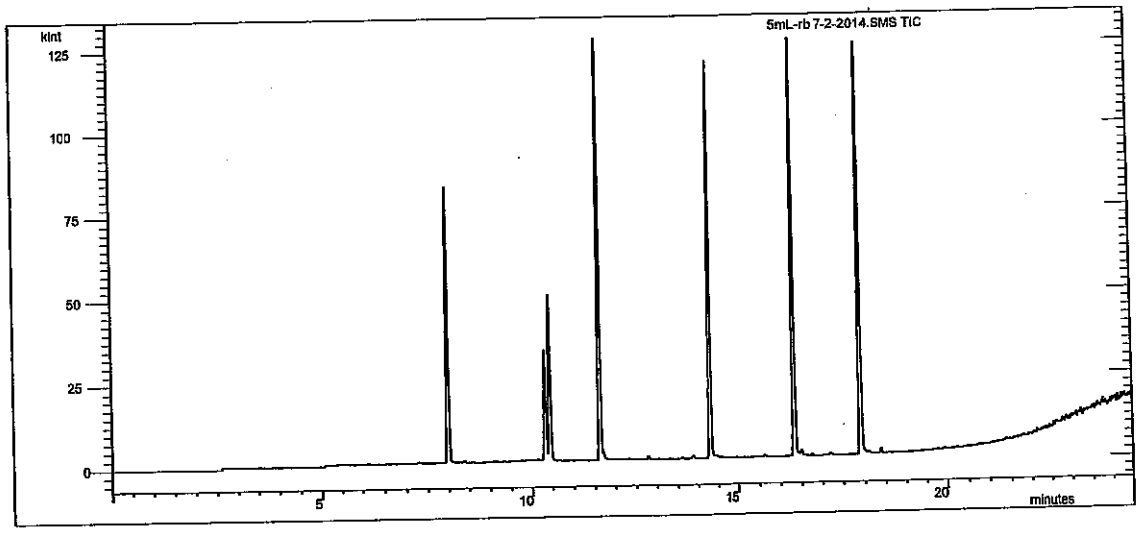
7/2/2014 8:50 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 10:59 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062914v 8260 annex.mth'

8015D MOD GRO

Sample Name:	5mL-rb	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	All injections contain V-52-0458	**Acquisition Date:**	7/2/2014 8:25:44 AM
Calculation Date:	7/2/2014 9:20:09 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.302	1189	Identified	83295	50.000
GRO	11.000	898	Identified	1.554E6	N/A
BFB	16.334	1368	Identified	85976	51.436

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Revision Log

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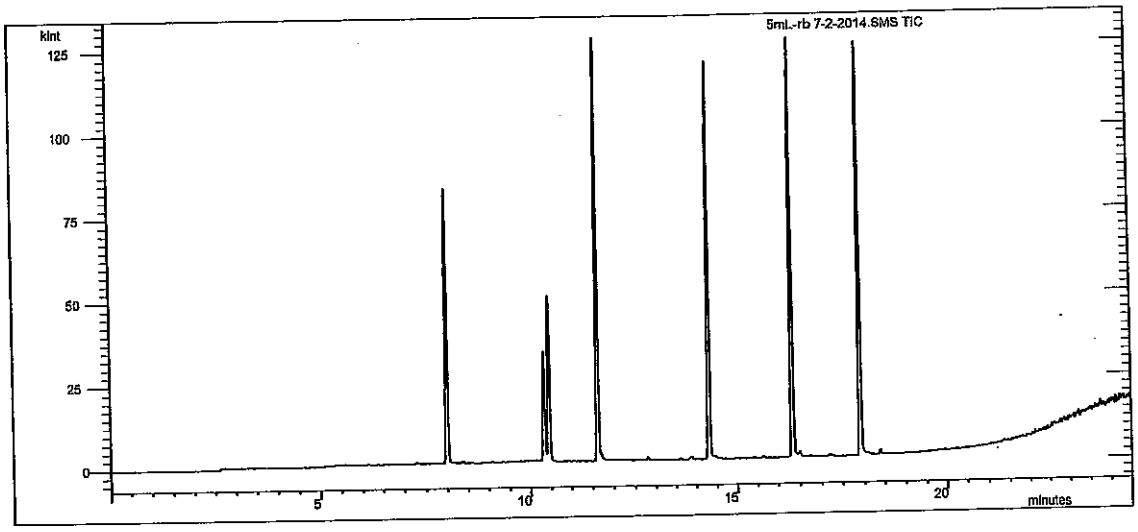
7/2/2014 8:50 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:20 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070114v GRO.mth'

8260B/624 Report

Sample Name:	5mL-rb	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	All injections contain V-52-0458	**Acquisition Date:**	7/2/2014 8:25:44 AM
Calculation Date:	7/2/2014 8:50:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.988	633	Identified	55090	50.000
Benzene-d5-, chloro-	14.303	1189	Identified	83630	50.000
1,4-Dichlorobenzene-d4	17.908	1506	Identified	48646	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	378	Missing		N/A
Acetone	5.450	409	Identified	738	0.021
Carbon disulfide	5.411	406	Missing		N/A
Iodomethane	5.617	424	Missing		N/A
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.622	512	Identified	790	31.786
trans-1,2-DCE	6.730	522	Missing		N/A
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.287	571	Identified	631	N/A
Vinyl Acetate	7.362	577	Missing		N/A
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.761	613	Failed	516	11.612
1,1,1-Trichloroethane	8.325	662	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	667	Missing		N/A
1,1-Dichloropropene	8.399	669	Missing		N/A
Carbon Tetrachloride	8.628	689	Missing		N/A
cis-1,2-DCE	9.047	726	Missing		N/A
Benzene	9.208	740	Missing		N/A
Chloroform	9.604	775	Missing		N/A
Bromochloromethane	10.018	811	Missing		N/A
Trichloroethene (TCE)	10.203	828	Missing		N/A
Dibromofluoromethane	10.331	839	Identified	78123	47.728
1,2-Dichloroethane-d4	10.442	849	Identified	221140	44.950
1,2-Dichloroethane (EDC)	10.554	859	Missing		N/A
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.911	890	Identified	591	2.043
Toluene-d8	11.629	953	Identified	139500	43.948
Toluene	11.709	961	Identified	1729	0.093
2-Chloroethyl vinyl ether	11.978	984	Missing		N/A
Tetrachloroethene (PCE)	12.187	1003	Missing		N/A
cis-1,3-dichloropropene	12.189	1003	Missing		N/A
2-Hexanone	12.196	1004	Missing		N/A
Bromodichloromethane	12.257	1009	Missing		N/A
Dibromomethane	12.364	1018	Missing		N/A
1,3-Dichloropropane	13.266	1098	Missing		N/A
trans-1,3-dichloropropene	13.328	1103	Missing		N/A
Ethylbenzene	13.618	1129	Missing		N/A
mp-Xylenes	13.869	1151	Identified	1447	N/A
1,1,2-Trichloroethane	14.080	1169	Missing		N/A
Chlorobenzene	14.341	1192	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1197	Missing		N/A
o-Xylene	14.590	1214	Missing		N/A
1,1,1,2-Tetrachloroethane	14.722	1226	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.780	1231	Missing		N/A
Styrene	15.176	1266	Missing		N/A
n-Propylbenzene	15.416	1287	Missing		N/A
1,3,5-Trimethylbenzene	15.907	1330	Missing		N/A
tert-Butylbenzene	16.103	1347	Missing		N/A
2-Chlorotoluene	16.252	1361	Missing		N/A
4-Bromofluorobenzene	16.334	1368	Identified	86623	44.923
sec-Butylbenzene	16.375	1371	Missing		N/A
4-Chlorotoluene	16.418	1375	Missing		N/A
Bromobenzene	16.458	1379	Missing		N/A
1,2,4-Trimethylbenzene	16.491	1382	Identified	1045	N/A
4-Isopropyltoluene	16.668	1397	Missing		N/A
Bromoform	17.002	1427	Missing		N/A
1,2,3-Trichloropropane	17.173	1442	Missing		N/A
n-Butylbenzene	17.296	1453	Missing		N/A
1,1,2,2-Tetrachloroethane	17.595	1479	Missing		N/A
1,3-Dichlorobenzene	17.677	1486	Missing		N/A
1,4-Dichlorobenzene	17.950	1510	Missing		N/A
1,2-Dichlorobenzene	18.557	1564	Missing		N/A

Operator: Rene Aguilera

Inj. Notes: All injections contain V-52-0458

5mL-rb 7-2-2014.SMS

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1703	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1729	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1765	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1845	Missing		N/A
Naphthalene	21.751	1846	Missing		N/A
2-Methylnaphthalene	23.236	1982	Missing		N/A
1-Methylnaphthalene	23.626	2018	Missing		N/A

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Revision Log
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7/2/2014 8:50 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

Operator: Rene Aguilera

Inj. Notes: All injections contain V-52-0458

5mL-rb 7-2-2014.SMS

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 014v\0714v\070114v grocrv\gro\2.5ug gro crv 7-1-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/1/2014 Time Analyzed: 15:54

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	80312	14.31										
UPPER LIMIT	160624	14.81										
LOWER LIMIT	40156	13.81										
EPA SAMPLE NO												
2.5ug gro	86505	14.31										

DA 7.2.14

✓ JDS 7/3/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/2/2014 Time: 8:53

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 18:43 18:43

Initial Calibration File: H:\Val\Data\2014v\0714v\070114v grocrv\GRO\2.5ug gro crv 7-1-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2877.355	0.100	2.50	2.80	-12.1	20.0	PASS	PASS
BFB	1.043	0.100	50.00	51.98	-4.0	30.0	PASS	PASS

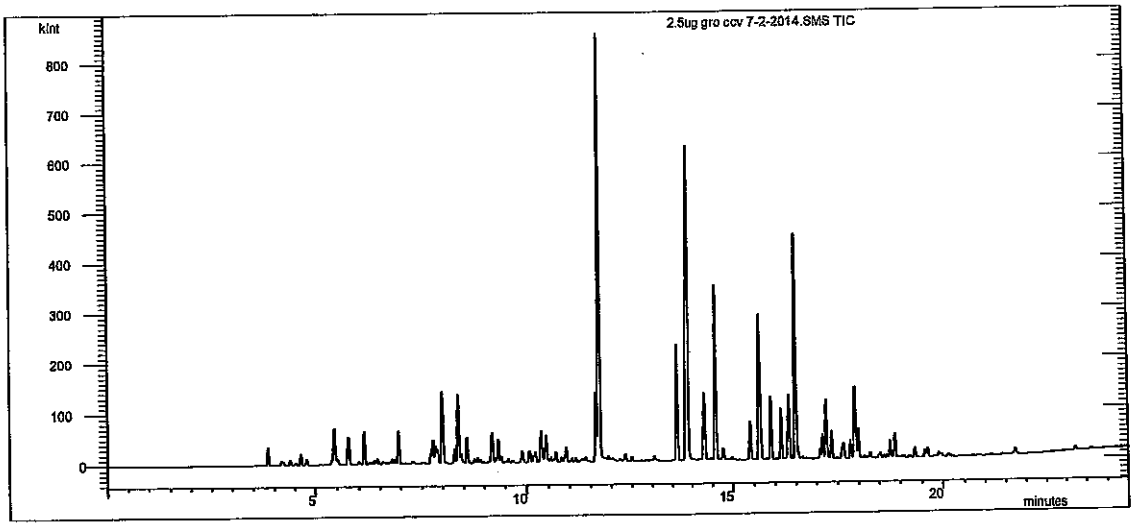
RA 7-3-14

VNB 7/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.5ug gro ccv	**Operator Name:**	Rene Agullera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 8:53:43 AM
Calculation Date:	7/2/2014 9:19:26 AM				



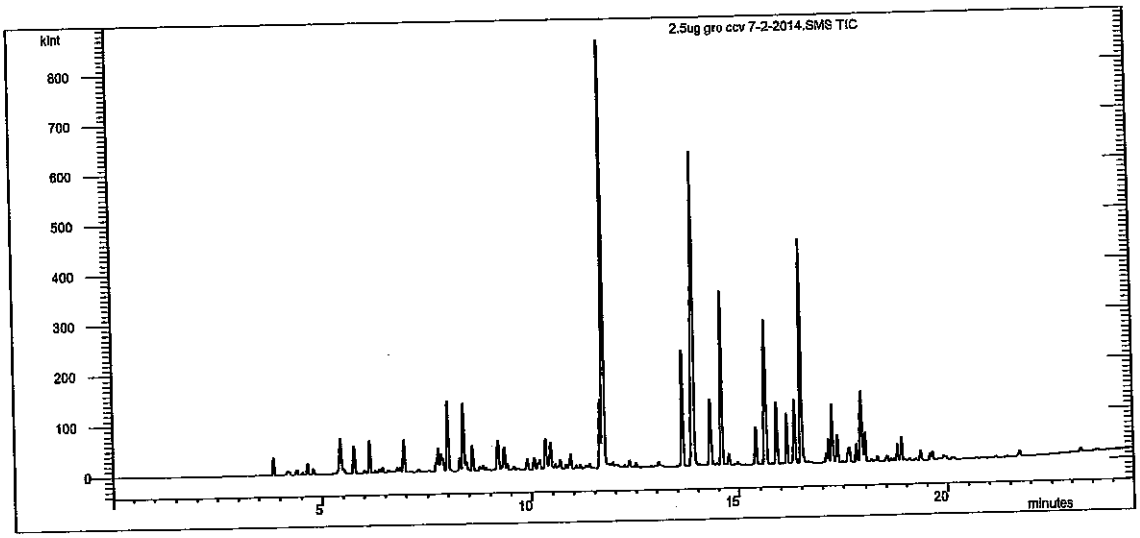
Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1199	Identified	86505	50.000
GRO	11.000	904	Identified	1.245E7	2.803
BFB	16.339	1379	Identified	90241	51.984

```
**********************************************************
Revision Log
**********************************************************

7/2/2014 9:18 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:19 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

8260B/624 Report

Sample Name:	2.5ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 8:53:43 AM
Calculation Date:	7/2/2014 9:18:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.989	635	Identified	59809	50.000
Benzene-d5-, chloro-	14.308	1199	Identified	87110	50.000
1,4-Dichlorobenzene-d4	17.912	1520	Identified	48929	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	379	Missing		N/A
Acetone	5.446	410	Identified	224696	286.657
Carbon disulfide	5.411	407	Missing		N/A
Iodomethane	5.604	424	Identified	525	25.609
Methyl tert-butyl ether (MTBE)	5.763	438	Missing		N/A
Isopropyl ether	6.322	487	Missing		N/A
tert-Butyl alcohol	6.631	515	Failed	3483	37.900
trans-1,2-DCE	6.730	524	Missing		N/A
tert-Butyl ethyl ether	6.812	531	Missing		N/A
1,1-Dichloroethane	7.189	564	Missing		N/A
Methylene Chloride	7.290	573	Identified	8016	1.085
Vinyl Acetate	7.299	574	Identified	734	3.295
2,2-Dichloropropane	7.469	589	Missing		N/A
2-Butanone	7.556	597	Identified	5269	16.309
1,1,1-Trichloroethane	8.325	665	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	669	Missing		N/A
1,1-Dichloropropene	8.399	671	Missing		N/A
Carbon Tetrachloride	8.628	692	Missing		N/A
cis-1,2-DCE	9.047	729	Missing		N/A
Benzene	9.189	742	Identified	58875	29.256
Chloroform	9.604	779	Missing		N/A
Bromochloromethane	10.070	821	Failed	1882	4.455
Trichloroethene (TCE)	10.203	832	Missing		N/A
Dibromofluoromethane	10.331	844	Identified	81844	46.167
1,2-Dichloroethane-d4	10.446	854	Identified	233963	43.939
1,2-Dichloroethane (EDC)	10.554	863	Missing		N/A
1,2-Dichloropropane	10.781	884	Missing		N/A
4-Methyl-2-pentanone	10.877	893	Missing		N/A
Toluene-d8	11.633	960	Identified	147399	44.569
Toluene	11.713	967	Identified	1.055E6	241.205
2-Chloroethyl vinyl ether	11.978	992	Missing		N/A
Tetrachloroethene (PCE)	12.187	1011	Missing		N/A
cis-1,3-dichloropropene	12.189	1011	Missing		N/A
2-Hexanone	12.217	1013	Identified	2173	1.596
Bromodichloromethane	12.215	1013	Identified	1627	0.480
Dibromomethane	12.364	1027	Missing		N/A
1,3-Dichloropropane	13.266	1107	Missing		N/A
trans-1,3-dichloropropene	13.328	1112	Missing		N/A
Ethylbenzene	13.612	1138	Identified	260194	51.312
mp-Xylenes	13.877	1161	Identified	850373	185.188
1,1,2-Trichloroethane	14.080	1179	Missing		N/A
Chlorobenzene	14.341	1202	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1207	Missing		N/A
o-Xylene	14.579	1223	Identified	345423	76.446
1,1,1,2-Tetrachloroethane	14.722	1236	Missing		N/A
Dibromochloromethane	14.752	1239	Missing		N/A
Isopropylbenzene	14.770	1240	Identified	14709	3.107
Styrene	15.164	1276	Failed	593	0.270
n-Propylbenzene	15.406	1297	Identified	80216	12.988
1,3,5-Trimethylbenzene	15.897	1340	Identified	91987	20.930
tert-Butylbenzene	16.103	1358	Missing		N/A
2-Chlorotoluene	16.252	1372	Missing		N/A
4-Bromofluorobenzene	16.339	1379	Identified	90602	46.794
sec-Butylbenzene	16.364	1382	Identified	2653	1.256
4-Chlorotoluene	16.418	1386	Missing		N/A
Bromobenzene	16.458	1390	Missing		N/A
1,2,4-Trimethylbenzene	16.495	1393	Identified	334402	75.372
4-Isopropyltoluene	16.658	1408	Identified	2791	0.414
Bromoform	17.002	1438	Missing		N/A
1,2,3-Trichloropropane	17.173	1454	Missing		N/A
n-Butylbenzene	17.282	1463	Failed	7335	1.720
1,1,2,2-Tetrachloroethane	17.595	1491	Missing		N/A
1,3-Dichlorobenzene	17.677	1499	Missing		N/A
1,4-Dichlorobenzene	17.950	1523	Missing		N/A
1,2-Dichlorobenzene	18.557	1577	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1720	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1746	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1783	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1864	Missing		N/A
Naphthalene	21.738	1863	Identified	12591	4.575
2-Methylnaphthalene	23.224	1999	Identified	5439	2.855
1-Methylnaphthalene	23.612	2034	Identified	2447	1.538

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Revision Log
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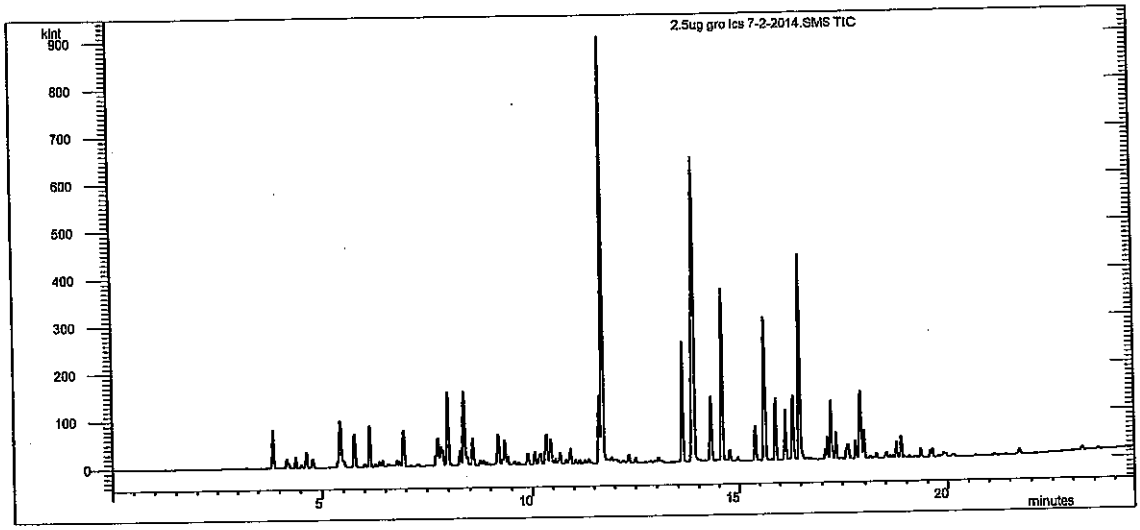
7/2/2014 9:18 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

8015D MOD GRO

Sample Name:	2.5ug gro lcs	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2036	**Acquisition Date:**	7/2/2014 9:21:42 AM
Calculation Date:	7/2/2014 9:51:59 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.299	1202	Identified	87993	50.000
GRO	11.000	905	Identified	1.313E7	2.926
BFB	16.331	1382	Identified	92963	52.646

117% Pass

MT 7-2-14

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Revision Log
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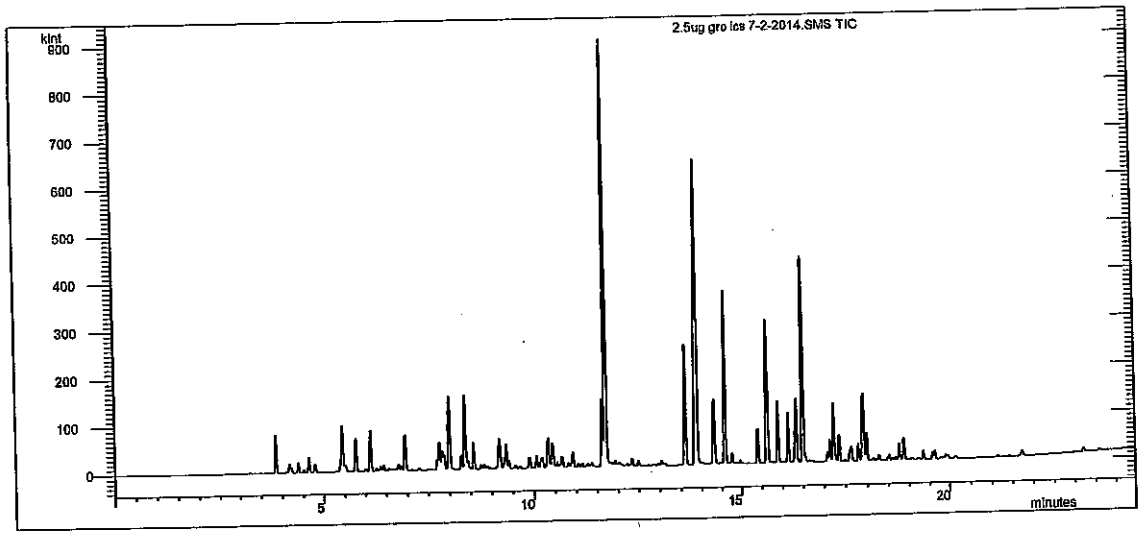
7/2/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'
7/2/2014 9:51 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070114v GRO.mth'

NB 7/3/14

8260B/624 Report

Sample Name:	2.5ug gro lcs	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2036	**Acquisition Date:**	7/2/2014 9:21:42 AM
Calculation Date:	7/2/2014 9:46:12 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.987	635	Identified	61707	50.000
Benzene-d5-, chloro-	14.299	1202	Identified	88818	50.000
1,4-Dichlorobenzene-d4	17.903	1522	Identified	49548	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.228	213	Identified	1660	4.505
Vinyl chloride	3.357	224	Missing		N/A
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	379	Missing		N/A
Acetone	5.444	409	Identified	338635	419.191
Carbon disulfide	5.411	407	Missing		N/A
Iodomethane	5.597	423	Identified	601	25.796
Methyl tert-butyl ether (MTBE)	5.763	438	Missing		N/A
Isopropyl ether	6.322	488	Missing		N/A
tert-Butyl alcohol	6.638	516	Identified	3999	38.815
trans-1,2-DCE	6.730	524	Missing		N/A
tert-Butyl ethyl ether	6.812	532	Missing		N/A
1,1-Dichloroethane	7.189	565	Missing		N/A
Methylene Chloride	7.289	574	Identified	8077	0.979
Vinyl Acetate	7.362	580	Missing		N/A
2,2-Dichloropropane	7.469	590	Missing		N/A
2-Butanone	7.547	597	Identified	6340	17.182
1,1,1-Trichloroethane	8.325	666	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	670	Missing		N/A
1,1-Dichloropropene	8.399	672	Missing		N/A
Carbon Tetrachloride	8.628	693	Missing		N/A
cis-1,2-DCE	9.047	730	Missing		N/A
Benzene	9.184	742	Identified	63598	30.641
Chloroform	9.661	785	Identified	587	0.614
Bromochloromethane	10.052	820	Failed	1423	3.137
Trichloroethene (TCE)	10.203	833	Missing		N/A
Dibromofluoromethane	10.325	844	Identified	82215	45.032
1,2-Dichloroethane-d4	10.439	855	Identified	229825	42.086
1,2-Dichloroethane (EDC)	10.554	865	Missing		N/A
1,2-Dichloropropane	10.781	885	Missing		N/A
4-Methyl-2-pentanone	10.877	894	Missing		N/A
Toluene-d8	11.624	962	Identified	152067	45.087
Toluene	11.705	969	Identified	1.113E6	249.767
2-Chloroethyl vinyl ether	11.978	993	Missing		N/A
Tetrachloroethene (PCE)	12.187	1013	Missing		N/A
cis-1,3-dichloropropene	12.189	1013	Missing		N/A
2-Hexanone	12.211	1015	Identified	1890	1.424
Bromodichloromethane	12.257	1019	Missing		N/A
Dibromomethane	12.364	1029	Missing		N/A
1,3-Dichloropropane	13.266	1109	Missing		N/A
trans-1,3-dichloropropene	13.328	1115	Missing		N/A
Ethylbenzene	13.604	1139	Identified	270001	52.227
mp-Xylenes	13.870	1162	Identified	873546	186.580
1,1,2-Trichloroethane	14.080	1182	Missing		N/A
Chlorobenzene	14.341	1205	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1211	Missing		N/A
o-Xylene	14.572	1226	Identified	353030	76.628
1,1,1,2-Tetrachloroethane	14.722	1239	Missing		N/A
Dibromochloromethane	14.752	1242	Missing		N/A
Isopropylbenzene	14.763	1243	Identified	11613	2.344
Styrene	15.155	1278	Failed	552	0.246
n-Propylbenzene	15.398	1300	Identified	81310	13.001
1,3,5-Trimethylbenzene	15.889	1343	Identified	94321	21.195
tert-Butylbenzene	16.103	1362	Missing		N/A
2-Chlorotoluene	16.252	1375	Missing		N/A
4-Bromofluorobenzene	16.331	1382	Identified	93102	47.514
sec-Butylbenzene	16.356	1384	Identified	2502	1.205
4-Chlorotoluene	16.418	1390	Missing		N/A
Bromobenzene	16.458	1393	Missing		N/A
1,2,4-Trimethylbenzene	16.487	1396	Identified	343068	76.363
4-Isopropyltoluene	16.648	1410	Identified	2405	0.325
Bromoform	17.002	1441	Missing		N/A
1,2,3-Trichloropropane	17.173	1457	Missing		N/A
n-Butylbenzene	17.272	1466	Failed	6886	1.602
1,1,2,2-Tetrachloroethane	17.595	1495	Missing		N/A
1,3-Dichlorobenzene	17.677	1502	Missing		N/A
1,4-Dichlorobenzene	17.950	1526	Missing		N/A
1,2-Dichlorobenzene	18.557	1580	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.140	1722	Missing		N/A
1,2-Dibromo-3-chloropropane	20.432	1748	Missing		N/A
1,2,4-Trichlorobenzene	20.839	1784	Missing		N/A
1,2,3-Trichlorobenzene	21.743	1865	Missing		N/A
Naphthalene	21.729	1864	Identified	12637	4.541
2-Methylnaphthalene	23.214	2000	Identified	5863	2.993
1-Methylnaphthalene	23.601	2035	Identified	2539	1.563

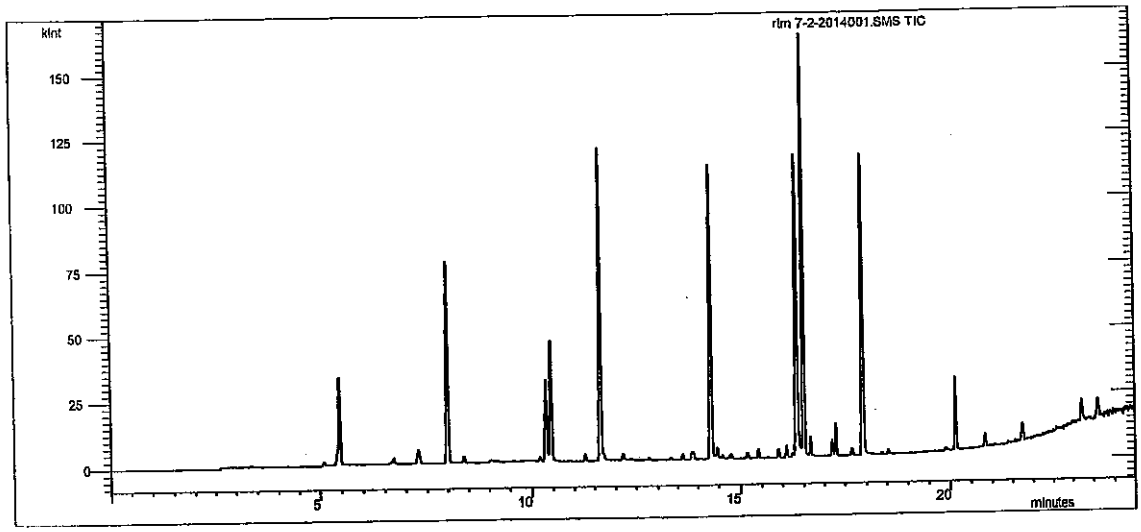
****
Revision Log
****

7/2/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

8015D MOD GRO

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 9:59:20 PM
Calculation Date:	7/3/2014 8:16:52 AM				

RTCOL 7.3.14



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.313	1190	Identified	75385	50.000
GRO	11.000	899	Identified	2.044E6	0.154
BFB	16.341	1369	Identified	80013	52.890

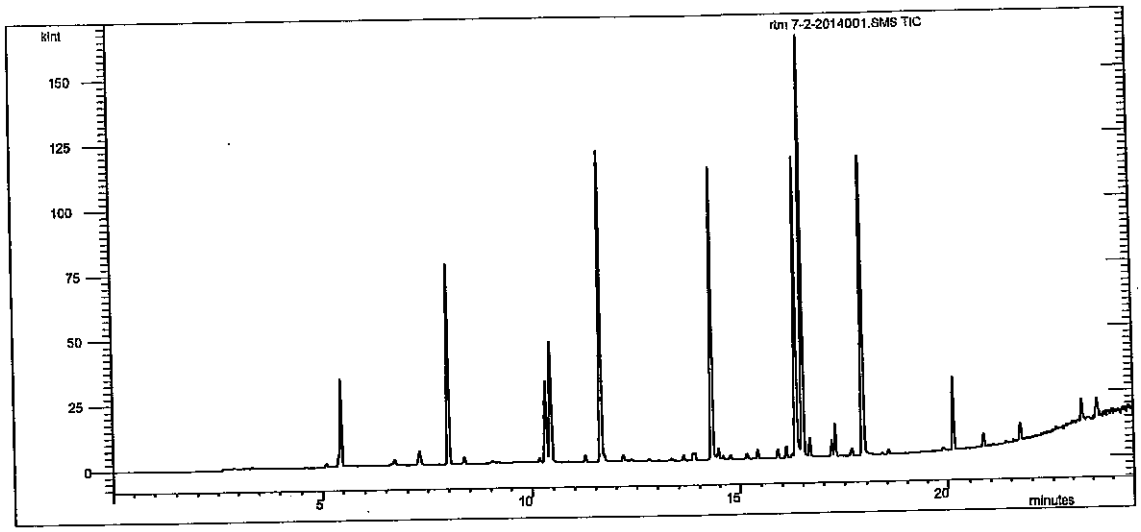
```
**********************************************************
Revision Log
**********************************************************

7/2/2014 10:23 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/3/2014 8:16 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

NB 7/3/14

8260B/624 Report

Sample Name:	rtm	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-1994	**Acquisition Date:**	7/2/2014 9:59:20 PM
Calculation Date:	7/2/2014 10:23:51 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.992	633	Identified	51152	50.000
Benzene-d5-, chloro-	14.314	1191	Identified	75581	50.000
1,4-Dichlorobenzene-d4	17.913	1508	Identified	44450	50.000
Dichlorodifluoromethane	2.901	184	Identified	825	0.580
Chloromethane	3.203	211	Identified	911	3.548
Vinyl chloride	3.350	224	Identified	2623	2.844
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.081	377	Identified	1481	2.003
Acetone	5.357	401	Identified	1913	1.859
Carbon disulfide	5.398	405	Identified	8640	6.758
Iodomethane	5.617	424	Missing		N/A
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.640	514	Identified	8294	52.371
trans-1,2-DCE	6.712	520	Failed	2318	2.325
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.294	572	Identified	7908	1.773
Vinyl Acetate	7.329	575	Identified	919	3.402
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.634	602	Identified	863	12.060
1,1,1-Trichloroethane	8.325	663	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	667	Missing		N/A
1,1-Dichloropropene	8.381	668	Identified	1332	1.255
Carbon Tetrachloride	8.610	688	Identified	805	N/A
cis-1,2-DCE	9.032	725	Identified	2671	1.811
Benzene	9.195	739	Identified	869	0.283
Chloroform	9.604	775	Missing		N/A
Bromochloromethane	10.018	812	Missing		N/A
Trichloroethene (TCE)	10.191	827	Identified	1928	1.922
Dibromofluoromethane	10.334	840	Identified	73478	48.307
1,2-Dichloroethane-d4	10.446	850	Identified	202340	44.373
1,2-Dichloroethane (EDC)	10.542	858	Identified	581	1.572
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.857	886	Identified	1135	2.318
Toluene-d8	11.632	954	Identified	128830	44.890
Toluene	11.713	961	Identified	2806	0.421
2-Chloroethyl vinyl ether	11.978	985	Missing		N/A
Tetrachloroethene (PCE)	12.173	1002	Identified	1902	0.202
cis-1,3-dichloropropene	12.199	1004	Identified	2624	0.780
2-Hexanone	12.182	1003	Identified	1416	1.304
Bromodichloromethane	12.263	1010	Identified	929	0.344
Dibromomethane	12.369	1019	Identified	1557	0.598
1,3-Dichloropropane	13.264	1098	Identified	760	0.094
trans-1,3-dichloropropene	13.316	1103	Identified	1001	0.523
Ethylbenzene	13.624	1130	Identified	2258	0.255
mp-Xylenes	13.871	1151	Identified	4718	0.651
1,1,2-Trichloroethane	14.080	1170	Missing		N/A
Chlorobenzene	14.335	1192	Failed	1731	0.805
1,2-Dibromoethane (EDB)	14.399	1198	Identified	1241	0.533
o-Xylene	14.586	1215	Identified	1103	N/A
1,1,1,2-Tetrachloroethane	14.722	1227	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.778	1232	Identified	1611	0.152
Styrene	15.165	1266	Failed	1417	0.747
n-Propylbenzene	15.413	1287	Identified	3426	0.595
1,3,5-Trimethylbenzene	15.902	1331	Identified	2779	0.492
tert-Butylbenzene	16.098	1348	Identified	3599	0.537
2-Chlorotoluene	16.242	1361	Identified	711	0.352
4-Bromofluorobenzene	16.341	1369	Identified	80245	45.572
sec-Butylbenzene	16.370	1372	Identified	3927	1.726
4-Chlorotoluene	16.410	1375	Identified	1264	1.196
Bromobenzene	16.453	1379	Identified	930	0.061
1,2,4-Trimethylbenzene	16.499	1383	Identified	124680	30.741
4-Isopropyltoluene	16.661	1398	Identified	5948	1.220
Bromoform	17.002	1428	Missing		N/A
1,2,3-Trichloropropane	17.173	1443	Missing		N/A
n-Butylbenzene	17.288	1453	Identified	9384	2.376
1,1,2,2-Tetrachloroethane	17.595	1480	Missing		N/A
1,3-Dichlorobenzene	17.668	1487	Identified	1949	0.931
1,4-Dichlorobenzene	17.938	1511	Failed	1824	1.228
1,2-Dichlorobenzene	18.543	1564	Identified	1183	0.614

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.127	1704	Identified	38847	8.912
1,2-Dibromo-3-chloropropane	20.432	1731	Missing		N/A
1,2,4-Trichlorobenzene	20.826	1766	Identified	2141	1.797
1,2,3-Trichlorobenzene	21.728	1847	Identified	2021	1.493
Naphthalene	21.735	1848	Identified	2600	1.574
2-Methylnaphthalene	23.222	1983	Identified	6297	3.441
1-Methylnaphthalene	23.611	2018	Identified	5677	3.127

****
Revision Log
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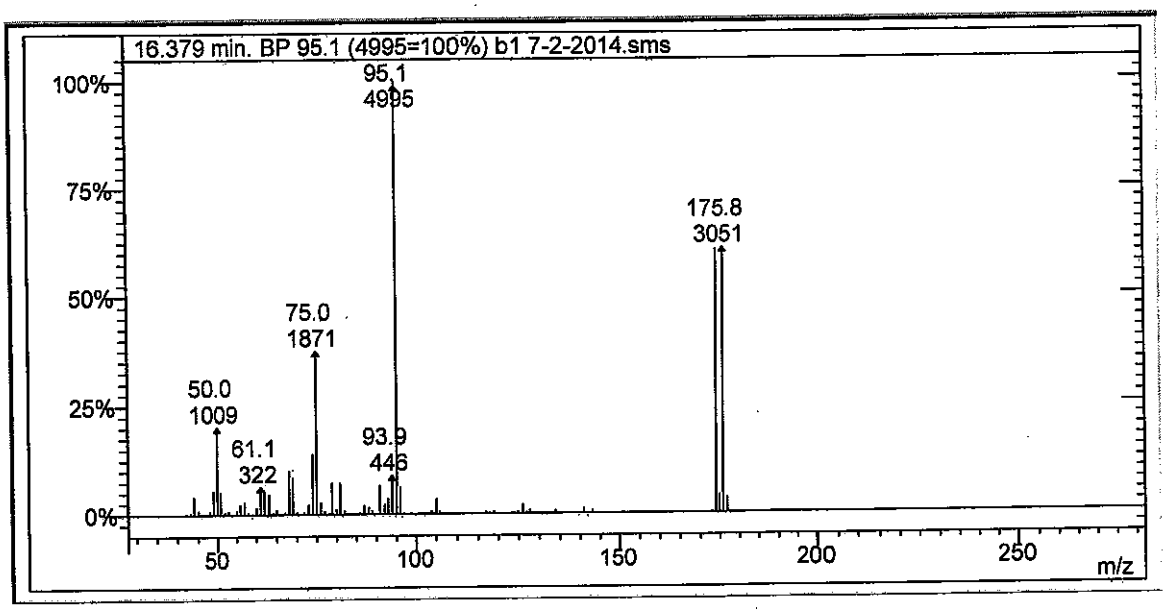
7/2/2014 10:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

BFB 8260B Report



Lab File ID: b1 7-2-2014.sms

Injection Date: 7/2/2014

Injection Time: 22:27

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.20	PASS
75	30-60% of m/z 95	37.46	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.23	PASS
173	<2% of m/z 174	0.49	PASS
174	>50% of m/z 95	60.72	PASS
175	5-9% of m/z 174	6.76	PASS
176	>95% but <101% of m/z 174	100.59	PASS
177	5-9% of m/z 176	5.77	PASS

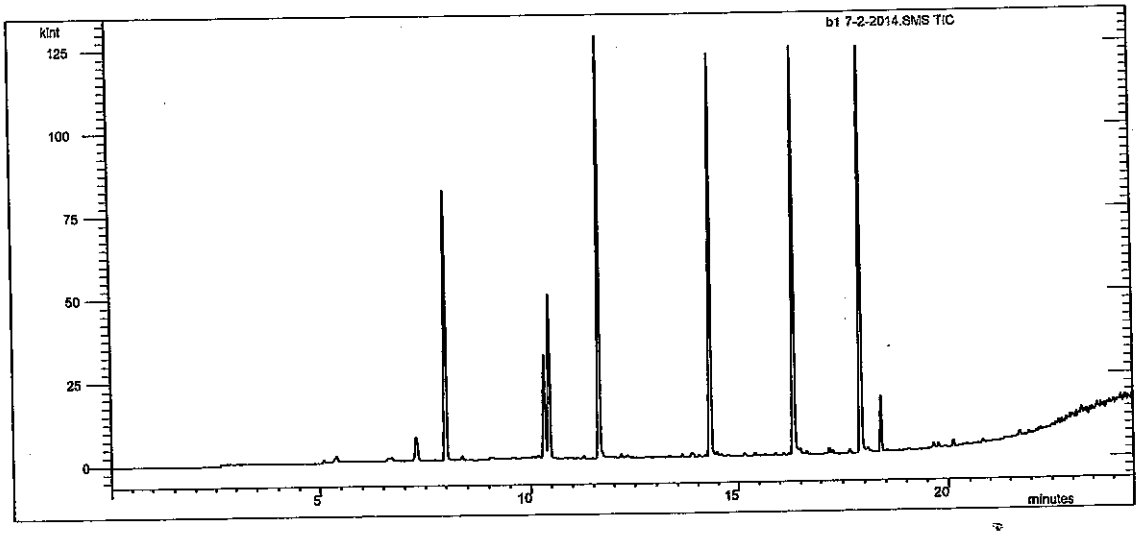
KJH
7/3/14
✓ JB 7/3/14

8260B/624 Report

Sample Name: b1 **Operator Name:** Rene Aguilera **Instrument ID:** Val

Inst. Method: C:\VarianWS\Methods\062314V 8260,624.mth **Inj. Notes:** **Acquisition Date:** 7/2/2014 10:27:14 PM

Calculation Date: 7/2/2014 10:51:37 PM



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.991	633	Identified	54547	50.000
Benzene-d5-, chloro-	14.306	1189	Identified	82725	50.000
1,4-Dichlorobenzene-d4	17.910	1507	Identified	46555	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.347	223	Identified	786	1.779
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.082	377	Failed	529	1.301
Acetone	5.352	401	Identified	10815	14.175
Carbon disulfide	5.398	405	Identified	3490	1.944
Iodomethane	5.617	424	Missing		N/A
Methyl tert-butyl ether (MTBE)	5.763	437	Missing		N/A
Isopropyl ether	6.322	486	Missing		N/A
tert-Butyl alcohol	6.641	514	Identified	14801	67.580
trans-1,2-DCE	6.709	520	Failed	859	1.313
tert-Butyl ethyl ether	6.812	529	Missing		N/A
1,1-Dichloroethane	7.189	562	Missing		N/A
Methylene Chloride	7.293	572	Identified	12181	4.072
Vinyl Acetate	7.443	585	Identified	1125	3.452
2,2-Dichloropropane	7.469	587	Missing		N/A
2-Butanone	7.735	611	Identified	1602	12.806
1,1,1-Trichloroethane	8.325	663	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	668	Missing		N/A
1,1-Dichloropropene	8.382	668	Identified	638	0.244
Carbon Tetrachloride	8.628	690	Missing		N/A
cis-1,2-DCE	9.031	725	Identified	958	0.890
Benzene	9.208	741	Missing		N/A
Chloroform	9.604	776	Missing		N/A
Bromochloromethane	10.018	812	Missing		N/A
Trichloroethene (TCE)	10.188	827	Identified	896	0.741
Dibromofluoromethane	10.331	839	Identified	77392	47.751
1,2-Dichloroethane-d4	10.444	849	Identified	222645	45.619
1,2-Dichloroethane (EDC)	10.554	859	Missing		N/A
1,2-Dichloropropane	10.781	879	Missing		N/A
4-Methyl-2-pentanone	10.847	885	Identified	535	2.021
Toluene-d8	11.630	954	Identified	137762	43.877
Toluene	11.712	961	Identified	1314	N/A
2-Chloroethyl vinyl ether	11.978	985	Missing		N/A
Tetrachloroethene (PCE)	12.172	1002	Identified	750	N/A
cis-1,3-dichloropropene	12.179	1002	Identified	1121	0.262
2-Hexanone	12.196	1004	Missing		N/A
Bromodichloromethane	12.257	1009	Missing		N/A
Dibromomethane	12.352	1017	Identified	562	N/A
1,3-Dichloropropane	13.266	1098	Missing		N/A
trans-1,3-dichloropropene	13.312	1102	Identified	691	0.220
Ethylbenzene	13.610	1128	Identified	1158	N/A
mp-Xylenes	13.853	1150	Identified	2241	N/A
1,1,2-Trichloroethane	14.080	1170	Missing		N/A
Chlorobenzene	14.341	1192	Missing		N/A
1,2-Dibromoethane (EDB)	14.399	1198	Missing		N/A
o-Xylene	14.590	1214	Missing		N/A
1,1,1,2-Tetrachloroethane	14.722	1226	Missing		N/A
Dibromochloromethane	14.752	1229	Missing		N/A
Isopropylbenzene	14.771	1230	Identified	572	N/A
Styrene	15.164	1265	Failed	627	0.300
n-Propylbenzene	15.403	1286	Identified	1213	0.190
1,3,5-Trimethylbenzene	15.892	1329	Identified	674	N/A
tert-Butylbenzene	16.092	1347	Identified	560	N/A
2-Chlorotoluene	16.251	1361	Missing		N/A
4-Bromofluorobenzene	16.337	1368	Identified	84928	46.072
sec-Butylbenzene	16.375	1372	Missing		N/A
4-Chlorotoluene	16.402	1374	Failed	529	0.687
Bromobenzene	16.458	1379	Missing		N/A
1,2,4-Trimethylbenzene	16.492	1382	Identified	1222	N/A
4-Isopropyltoluene	16.654	1396	Identified	846	0.006
Bromoform	17.002	1427	Missing		N/A
1,2,3-Trichloropropane	17.173	1442	Missing		N/A
n-Butylbenzene	17.282	1451	Identified	1121	0.369
1,1,2,2-Tetrachloroethane	17.595	1479	Missing		N/A
1,3-Dichlorobenzene	17.661	1485	Identified	844	0.314
1,4-Dichlorobenzene	17.950	1510	Missing		N/A
1,2-Dichlorobenzene	18.557	1564	Missing		N/A

Operator: Rene Aguilera

Inj. Notes:

b1 7-2-2014.SMS
7/2/2014 22:52

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.124	1702	Identified	4125	0.982
1,2-Dibromo-3-chloropropane	20.432	1730	Missing		N/A
1,2,4-Trichlorobenzene	20.824	1764	Identified	606	0.705
1,2,3-Trichlorobenzene	21.743	1846	Missing		N/A
Naphthalene	21.741	1846	Identified	762	0.938
2-Methylnaphthalene	23.216	1981	Identified	1103	1.176
1-Methylnaphthalene	23.608	2016	Identified	1005	0.957

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Revision Log
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7/2/2014 10:51 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 014v\0714v\070114v grocrv\gro\2.5ug gro crv 7-1-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/1/2014 Time Analyzed: 15:54

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	80312	14.31										
UPPER LIMIT	160624	14.81										
LOWER LIMIT	40156	13.81										
EPA SAMPLE NO												
2.25ug gro	82806	14.31										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7-3-14

7/3/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/2/2014 Time: 23:22

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 18:43 18:43

Initial Calibration File: H:\Val\Data\2014v\0714v\070114v grocrv\GRO\2.5ug gro crv 7-1-2014.SMS

Lab File ID: c:\varianws\data\070314v\gro\2.25ug gro ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2719.051	0.100	2.25	2.32	-2.9	20.0	PASS	PASS
BFB	1.043	0.100	50.00	51.97	-3.9	30.0	PASS	PASS

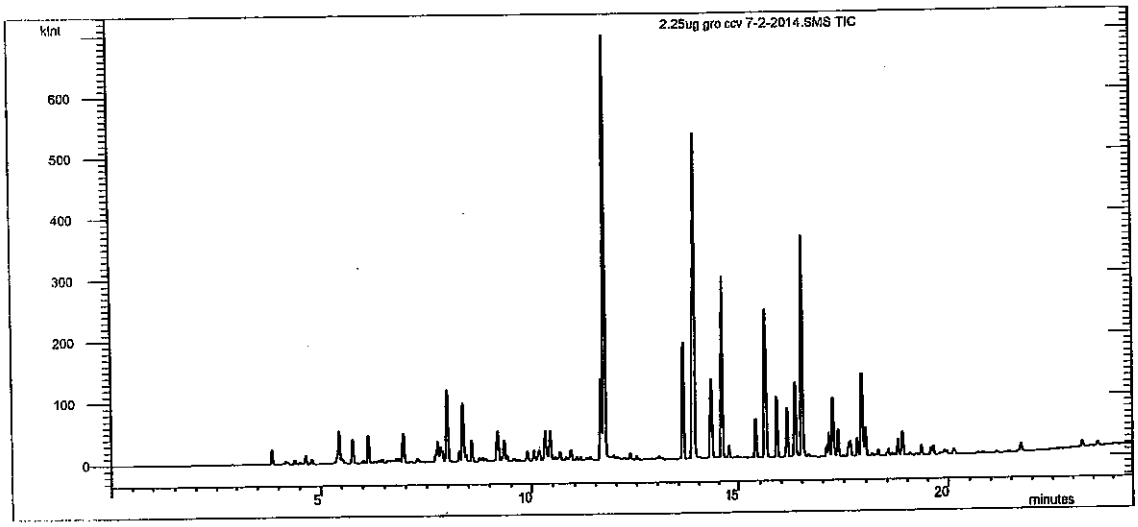
7.3.14

7/3/14

Analyst: RAA

8015D MOD GRO

Sample Name:	2.25ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 11:22:52 PM
Calculation Date:	7/3/2014 8:12:48 AM				



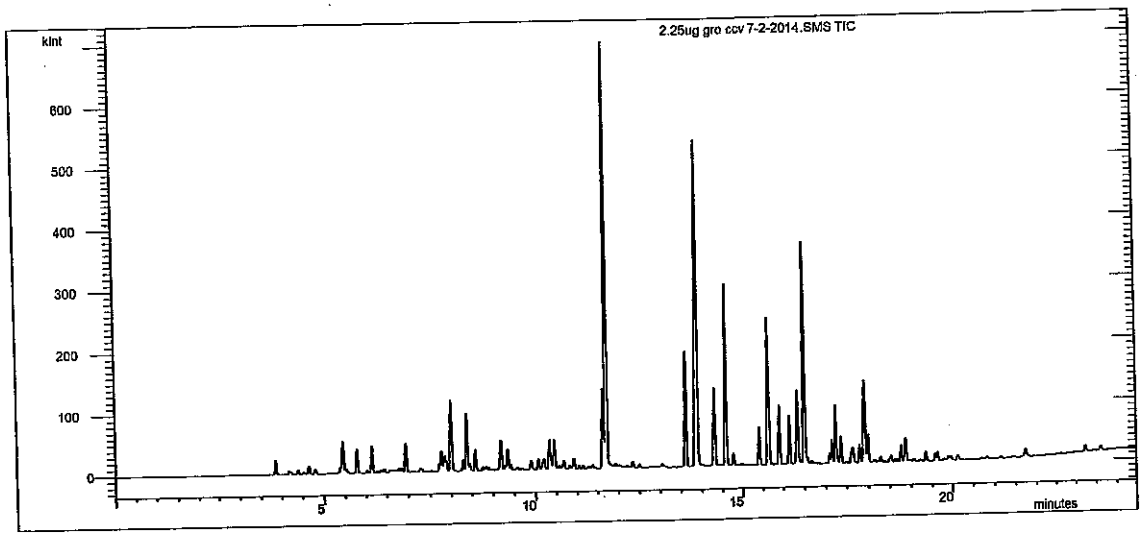
Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.307	1198	Identified	82806	50.000
GRO	11.000	904	Identified	1.013E7	2.315
BFB	16.339	1377	Identified	86357	51.969

```
**********************************************************
Revision Log
**********************************************************

7/2/2014 11:47 PM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\062314V 8260,624.mth'
7/3/2014 8:12 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\070114v GRO.mth'
```

8260B/624 Report

Sample Name:	2.25ug gro ccv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\062314V 8260,624.mth	**Inj. Notes:**	V-18-2044	**Acquisition Date:**	7/2/2014 11:22:52 PM
Calculation Date:	7/2/2014 11:47:22 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.991	636	Identified	57982	50.000
Benzene-d5-, chloro-	14.308	1198	Identified	83337	50.000
1,4-Dichlorobenzene-d4	17.912	1518	Identified	48157	50.000
Dichlorodifluoromethane	2.910	185	Missing		N/A
Chloromethane	3.210	211	Missing		N/A
Vinyl chloride	3.348	224	Identified	1282	2.001
Chloroethane	3.890	271	Missing		N/A
Bromomethane	3.911	273	Missing		N/A
Trichlorofluoromethane	4.235	302	Missing		N/A
1,1-Dichloroethene	5.097	379	Missing		N/A
Acetone	5.398	405	Identified	30768	39.625
Carbon disulfide	5.394	405	Identified	5410	3.289
Iodomethane	5.617	425	Missing		N/A
Methyl tert-butyl ether (MTBE)	5.763	438	Missing		N/A
Isopropyl ether	6.322	488	Missing		N/A
tert-Butyl alcohol	6.637	515	Identified	29518	100.693
trans-1,2-DCE	6.707	522	Failed	1271	1.524
tert-Butyl ethyl ether	6.812	531	Missing		N/A
1,1-Dichloroethane	7.189	564	Missing		N/A
Methylene Chloride	7.293	574	Identified	9107	1.856
Vinyl Acetate	7.362	580	Missing		N/A
2,2-Dichloropropane	7.469	589	Missing		N/A
2-Butanone	7.550	597	Identified	3674	14.834
1,1,1-Trichloroethane	8.325	665	Missing		N/A

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.380	670	Missing		N/A
1,1-Dichloropropene	8.399	672	Missing		N/A
Carbon Tetrachloride	8.628	693	Missing		N/A
cis-1,2-DCE	9.047	730	Missing		N/A
Benzene	9.190	743	Identified	49407	25.294
Chloroform	9.580	778	Failed	794	0.815
Bromochloromethane	10.064	821	Failed	1404	3.318
Trichloroethene (TCE)	10.187	831	Identified	1032	0.817
Dibromofluoromethane	10.333	844	Identified	77224	45.017
1,2-Dichloroethane-d4	10.443	854	Identified	214698	41.871
1,2-Dichloroethane (EDC)	10.554	864	Missing		N/A
1,2-Dichloropropane	10.781	885	Missing		N/A
4-Methyl-2-pentanone	10.862	892	Identified	637	2.049
Toluene-d8	11.630	960	Identified	141362	44.677
Toluene	11.710	967	Identified	857158	204.864
2-Chloroethyl vinyl ether	11.978	992	Missing		N/A
Tetrachloroethene (PCE)	12.174	1009	Identified	1134	N/A
cis-1,3-dichloropropene	12.188	1011	Failed	1517	0.376
2-Hexanone	12.215	1013	Identified	1982	1.542
Bromodichloromethane	12.202	1012	Failed	768	0.278
Dibromomethane	12.357	1025	Identified	880	0.153
1,3-Dichloropropane	13.266	1106	Missing		N/A
trans-1,3-dichloropropene	13.317	1111	Identified	723	0.240
Ethylbenzene	13.614	1137	Identified	213252	43.921
mp-Xylenes	13.878	1160	Identified	697499	158.697
1,1,2-Trichloroethane	14.080	1178	Missing		N/A
Chlorobenzene	14.341	1201	Missing		N/A
1,2-Dibromoethane (EDB)	14.389	1205	Identified	855	0.326
o-Xylene	14.580	1222	Identified	285279	65.950
1,1,1,2-Tetrachloroethane	14.722	1235	Missing		N/A
Dibromochloromethane	14.752	1237	Missing		N/A
Isopropylbenzene	14.771	1239	Identified	15727	3.504
Styrene	15.168	1274	Failed	1142	0.546
n-Propylbenzene	15.407	1295	Identified	67267	11.064
1,3,5-Trimethylbenzene	15.898	1339	Identified	76351	17.617
tert-Butylbenzene	16.092	1356	Failed	963	N/A
2-Chlorotoluene	16.251	1370	Missing		N/A
4-Bromofluorobenzene	16.339	1377	Identified	86449	45.304
sec-Butylbenzene	16.369	1380	Identified	3036	1.378
4-Chlorotoluene	16.405	1383	Failed	685	0.772
Bromobenzene	16.444	1387	Identified	602	N/A
1,2,4-Trimethylbenzene	16.495	1391	Identified	277534	63.506
4-Isopropyltoluene	16.658	1406	Identified	3293	0.533
Bromoform	17.002	1436	Missing		N/A
1,2,3-Trichloropropane	17.173	1452	Missing		N/A
n-Butylbenzene	17.282	1461	Failed	8303	1.961
1,1,2,2-Tetrachloroethane	17.595	1489	Missing		N/A
1,3-Dichlorobenzene	17.663	1495	Identified	1196	0.474
1,4-Dichlorobenzene	17.950	1521	Missing		N/A
1,2-Dichlorobenzene	18.542	1574	Identified	709	0.327

Operator: Rene Aguilera

Inj. Notes: V-18-2044

2.25ug gro ccv 7-2-2014.SMS
7/2/2014 23:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.128	1716	Identified	6042	1.354
1,2-Dibromo-3-chloropropane	20.432	1743	Missing		N/A
1,2,4-Trichlorobenzene	20.825	1778	Identified	1016	0.956
1,2,3-Trichlorobenzene	21.728	1859	Failed	947	0.705
Naphthalene	21.738	1860	Identified	11800	4.390
2-Methylnaphthalene	23.223	1996	Identified	7533	3.725
1-Methylnaphthalene	23.613	2031	Identified	4525	2.437

****
Revision Log
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7/2/2014 11:47 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\062314V 8260,624.mth'

JNB 7/8/14

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-008
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Toluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Naphthalene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Acetone	ND	0.75		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromoform	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromomethane	0.077	0.15	J	mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Butanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Carbon disulfide	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloroethane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloroform	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloromethane	ND	0.15		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dibromomethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Hexanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Methylene chloride	0.012	0.15	J	mg/Kg	1	R19656	7/3/2014 3:33:45 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Styrene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Vinyl chloride	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Xylenes, Total	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromochloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Vinyl acetate	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Surr: Dibromofluoromethane	109	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: Toluene-d8	81.9	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: 4-Bromofluorobenzene	82.2	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

WB7/7/14

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001
Client Sample ID: FFOR-CF-0009
Collection Date: 7/1/2014 9:43:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Toluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Ethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Xylenes, Total	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,4-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3,5-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichloroethane (EDC)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dibromoethane (EDB)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Naphthalene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Acetone	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromodichloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromoform	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromomethane	ND	0.00337		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Butanone	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Carbon tetrachloride	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloroethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloroform	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Carbon disulfide	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
cis-1,2-DCE	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
cis-1,3-Dichloropropene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dibromo-3-chloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dibromochloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dibromomethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,4-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dichlorodifluoromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1-Dichloroethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1-Dichloroethene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Hexachlorobutadiene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Isopropylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Isopropyltoluene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Methylene chloride	ND	0.00337	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
n-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Hexanone	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
n-Propylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
sec-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Styrene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Methyl-2-pentanone	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
tert-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,1,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,2,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Tetrachloroethene (PCE)	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
trans-1,2-DCE	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
trans-1,3-Dichloropropene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,3-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,4-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,1-Trichloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,2-Trichloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Trichloroethene (TCE)	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Trichlorofluoromethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,3-Trichloropropane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Vinyl chloride	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Vinyl acetate	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromochloromethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: 4-Bromofluorobenzene	99.6	65.3-135	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: Dibromofluoromethane	95.7	70-130	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: Toluene-d8	93.6	70-130	%REC	1	14027	7/2/2014 12:57:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-002
Client Sample ID: FFOR-CF-0010
Collection Date: 7/1/2014 11:14:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Toluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Ethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Xylenes, Total	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,4-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3,5-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichloroethane (EDC)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dibromoethane (EDB)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Naphthalene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Acetone	0.00986	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromodichloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromoform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromomethane	ND	0.00399		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Butanone	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Carbon tetrachloride	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloroform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Carbon disulfide	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
cis-1,2-DCE	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
cis-1,3-Dichloropropene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dibromo-3-chloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dibromochloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dibromomethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,4-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dichlorodifluoromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1-Dichloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1-Dichloroethene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Hexachlorobutadiene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Isopropylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Isopropyltoluene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Methylene chloride	ND	0.00399	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
n-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Hexanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
n-Propylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
sec-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Styrene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Methyl-2-pentanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
tert-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,1,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,2,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Tetrachloroethene (PCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
trans-1,2-DCE	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
trans-1,3-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,3-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,4-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,1-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,2-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Trichloroethene (TCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Trichlorofluoromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,3-Trichloropropane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Vinyl chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Vinyl acetate	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromochloromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: 4-Bromofluorobenzene	95.9	65.3-135	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: Dibromofluoromethane	95.3	70-130	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: Toluene-d8	99.8	70-130	%REC	1	14027	7/2/2014 1:27:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Toluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Ethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Xylenes, Total	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,4-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3,5-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichloroethane (EDC)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dibromoethane (EDB)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Naphthalene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Acetone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromodichloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromoform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromomethane	ND	0.00332		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Butanone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Carbon tetrachloride	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloroform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Carbon disulfide	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
cis-1,2-DCE	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
cis-1,3-Dichloropropene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dibromo-3-chloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dibromochloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dibromomethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,4-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dichlorodifluoromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1-Dichloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1-Dichloroethene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Hexachlorobutadiene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Isopropylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Isopropyltoluene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Methylene chloride	ND	0.00332	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
n-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Hexanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
n-Propylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
sec-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Styrene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Methyl-2-pentanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
tert-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,1,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,2,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Tetrachloroethene (PCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
trans-1,2-DCE	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
trans-1,3-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,3-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,4-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,1-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,2-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Trichloroethene (TCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Trichlorofluoromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,3-Trichloropropane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Vinyl chloride	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Vinyl acetate	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromochloromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Surr: 1,2-Dichloroethane-d4	115	70-130	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: 4-Bromofluorobenzene	95.5	65.3-135	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: Dibromofluoromethane	91.5	70-130	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: Toluene-d8	102	70-130	%REC	1	14027	7/2/2014 1:56:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-004
Client Sample ID: FFOR-CF-0012
Collection Date: 7/1/2014 11:33:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Toluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Ethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Xylenes, Total	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Methyl tert-butyl ether (MTBE)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,4-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3,5-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichloroethane (EDC)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dibromoethane (EDB)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Naphthalene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Acetone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromodichloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromoform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromomethane	ND	0.00331		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Butanone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Carbon tetrachloride	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloroform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Carbon disulfide	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
cis-1,2-DCE	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
cis-1,3-Dichloropropene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dibromo-3-chloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dibromochloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dibromomethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,4-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dichlorodifluoromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1-Dichloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1-Dichloroethene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Hexachlorobutadiene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Isopropylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Isopropyltoluene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Methylene chloride	ND	0.00331	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
n-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Hexanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
n-Propylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
sec-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Styrene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Methyl-2-pentanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
tert-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,1,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,2,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Tetrachloroethene (PCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
trans-1,2-DCE	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
trans-1,3-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,3-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,4-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,1-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,2-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Trichloroethene (TCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Trichlorofluoromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,3-Trichloropropane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Vinyl chloride	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Vinyl acetate	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromochloromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Surr: 1,2-Dichloroethane-d4	95.1	70-130	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: 4-Bromofluorobenzene	97.7	65.3-135	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: Dibromofluoromethane	87.5	70-130	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: Toluene-d8	93.8	70-130	%REC	1	14027	7/2/2014 2:26:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-005
Client Sample ID: FFOR-CF-0013
Collection Date: 7/1/2014 11:41:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Toluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Ethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Xylenes, Total	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Methyl tert-butyl ether (MTBE)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,4-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3,5-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichloroethane (EDC)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dibromoethane (EDB)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Naphthalene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Acetone	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromodichloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromoform	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromomethane	ND	0.00359		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Butanone	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Carbon tetrachloride	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloroethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloroform	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Carbon disulfide	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
cis-1,2-DCE	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
cis-1,3-Dichloropropene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dibromo-3-chloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dibromochloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dibromomethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,4-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dichlorodifluoromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1-Dichloroethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1-Dichloroethene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Hexachlorobutadiene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Isopropylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Isopropyltoluene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Methylene chloride	ND	0.00359	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
n-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Hexanone	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
n-Propylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
sec-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Styrene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Methyl-2-pentanone	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
tert-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,1,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,2,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Tetrachloroethene (PCE)	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
trans-1,2-DCE	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
trans-1,3-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,3-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,4-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,1-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,2-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Trichloroethene (TCE)	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Trichlorofluoromethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,3-Trichloropropane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Vinyl chloride	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Vinyl acetate	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromochloromethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: 4-Bromofluorobenzene	97.2	65.3-135	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: Dibromofluoromethane	85.8	70-130	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: Toluene-d8	96.9	70-130	%REC	1	14027	7/2/2014 2:56:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006
Client Sample ID: FFOR-CF-0014
Collection Date: 7/1/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Toluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Ethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Xylenes, Total	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Methyl tert-butyl ether (MTBE)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,4-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3,5-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichloroethane (EDC)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dibromoethane (EDB)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Naphthalene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Acetone	0.00833	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromodichloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromoform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromomethane	ND	0.00399		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Butanone	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Carbon tetrachloride	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloroform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Carbon disulfide	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
cis-1,2-DCE	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
cis-1,3-Dichloropropene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dibromo-3-chloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dibromochloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dibromomethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,4-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dichlorodifluoromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1-Dichloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1-Dichloroethene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Hexachlorobutadiene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Isopropylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Isopropyltoluene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Methylene chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
n-Butylbenzene	ND	0.00399	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Hexanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
n-Propylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
sec-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Styrene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Methyl-2-pentanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
tert-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,1,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,2,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Tetrachloroethene (PCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
trans-1,2-DCE	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
trans-1,3-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,3-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,4-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,1-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,2-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Trichloroethene (TCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Trichlorofluoromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,3-Trichloropropane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Vinyl chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Vinyl acetate	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromochloromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: 4-Bromofluorobenzene	95.2	65.3-135	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: Dibromofluoromethane	77.2	70-130	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: Toluene-d8	96.6	70-130	%REC	1	14027	7/2/2014 3:26:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.00230	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Toluene	0.00323	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Ethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Xylenes, Total	0.00254	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,4-Trimethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3,5-Trimethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichloroethane (EDC)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dibromoethane (EDB)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Naphthalene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Acetone	0.0116	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromodichloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromoform	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromomethane	ND	0.00407		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Butanone	ND	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Carbon tetrachloride	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloroethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloroform	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Carbon disulfide	ND	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
cis-1,2-DCE	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
cis-1,3-Dichloropropene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dibromo-3-chloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dibromochloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dibromomethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,4-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dichlorodifluoromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1-Dichloroethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1-Dichloroethene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **cadg**

1,1-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Hexachlorobutadiene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Isopropylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Isopropyltoluene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Methylene chloride	ND	0.00407	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
n-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Hexanone	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
n-Propylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
sec-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Styrene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Methyl-2-pentanone	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
tert-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,1,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,2,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Tetrachloroethene (PCE)	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
trans-1,2-DCE	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
trans-1,3-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,3-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,4-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,1-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,2-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Trichloroethene (TCE)	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Trichlorofluoromethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,3-Trichloropropane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Vinyl chloride	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Vinyl acetate	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromochloromethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: 4-Bromofluorobenzene	96.2	65.3-135	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: Dibromofluoromethane	87.4	70-130	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: Toluene-d8	104	70-130	%REC	1	14027	7/2/2014 3:56:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1;1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

RT 7-7-14

NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

RAA 7-7-14

JB 7/8/14

Analyst: RAA

arian Star Workstation - Generic SampleList Wed Jul 02 15:23:10 2014

ampleList: C:\VarianWS\070214v.smp

reated: Wed Jul 02 07:39:35 2014
odified: Wed Jul 02 15:22:32 2014

****

Line	Sample Name	Injection	Notes
1		rtm	below
	Notes	V-18-1994	
2		5mL-rb	below tune @ 8:25
	Notes	All injections contain V-52-0458	
3		2.5ug gro ccv	below @ 8:53
	Notes	V-18-2044	
4		2.5ug gro lcs	below
	Notes	V-18-2036	
5		50ng ccv	below @ 9:49
	Notes	V-54-0428	
6		200ng annex ccv	below
	Notes	V-11-8029	
7		100ng lcs	below
	Notes	V-11-8033	
8		vcb	none tune @ 11:13
9	hardoak	1406b35-001a	below LF
	Notes	x1-50mL AIR	
10		1406b35-001a dup	below
	Notes	x1-50mL AIR	
11		1406b35-002a	below
	Notes	x1-50mL AIR	
12		1406b35-003a	below
	Notes	x1-50mL AIR	
13		1406b35-004a	below
	Notes	x1-50mL AIR	
14		1407077-001a	below
	Notes	x1-5mL AXIS	
15		1407077-001a ms	below
	Notes	V-11-8033	
16		1407077-001a msd	below
	Notes	V-11-8033	
17		1407077-002a	below
	Notes	x1-5mL AXIS TB	
18		1406d88-001a	below
	Notes	x1-100uL MeOH GRO	
19		1406d88-002a	below
	Notes	x1-100uL MeOH GRO	
20		1406d88-003a	below
	Notes	x1-100uL MeOH GRO	
21		1406d88-004a	below
	Notes	x1-100uL MeOH GRO	
22		1406d88-005a	below
	Notes	x1-100uL MeOH GRO	
23		1406d88-006a	below
	Notes	x1-100uL MeOH GRO	
24		1406d88-007a	below
	Notes	x1-100uL MeOH GRO	
25		1406d88-008a	below
	Notes	x1-100uL MeOH GRO	
26		1406d88-009a	below
	Notes	x1-100uL MeOH Blk 8260, GRO	
27		1406d88-001a ms	below rr
	Notes	x1-100uL MeOH GRO @ 9:35	
28		1406d88-001a msd	below rr
	Notes	x1-100uL MeOH GRO	
29		1406c22-011a ms4	below
	7/3/14	Notes V-54-0418	
30		1406c22-011a msd4	below @ 9:31
	7/3/14	Notes V-54-0418	
31		rtm	below
	Notes	V-18-1994	
32		bl	none tune @ 10:27
33		100ng ccv	below
	Notes	V-54-0428	
34		2.25ug gro ccv	below
	Notes	V-18-2044	

Loaded By: DA 7.2.14
1st Review By: A 7.3.14 (RJH 7/3/14)
QA'd By: WB 7/3/14

```
36          1407066-001a      below
                Notes  x1-100uL MeOH GRO
37          1407066-002a      below
                Notes  x1-100uL MeOH GRO
38          1407066-003a      below
                Notes  x1-100uL MeOH GRO
39          1407066-004a      below
                Notes  x1-100uL MeOH GRO
40          1407066-005a      below
                Notes  x1-100uL MeOH GRO
41          1407066-006a      below
                Notes  x1-100uL MeOH GRO
42          1407066-007a      below
                Notes  x1-100uL MeOH GRO
43          1407066-008a      below
                Notes  x1-100uL MeOH Blk 8260, GRO
44          1406d72-001a      below
                Notes  x1-100uL MeOH
45       1406d72-001a ms      below
                Notes  V-11-8033
46      1406d72-001a msd      below
                Notes  V-11-8033
47          1406d72-002a      below
                Notes  x1-100uL MeOH
48          1406d72-003a      below
                Notes  x1-100uL MeOH
49          1406d72-004a      below
                Notes  x1-100uL MeOH
50          1406d72-005a      below
                Notes  x1-100uL MeOH @C:49
51

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070214v.rcl.
```

Loaded By: 7-2-14
1st Review By: 7-3-14 KJH 7/3/14
QA'd By: JNB 7/3/14

8260B/624
Calibration Summary

Instrument: Va | **Date:** 4 C-23.14

Calibration Name: 062314V 8260, C24

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☒	☐	☒	☐	VQL = 227.27 ng
Chloromethane	☐	☐	☐	☒	
Vinyl chloride	☐	☐	☐	☒	
Chloroethane	☐	☐	☒	☐	2ng Missing VQL = 10ng
Bromomethane	☐	☐	☒	☐	~~2ng Missing~~ VQL = 15ng
Trichlorofluoromethane	☐	☐	☐	☒	
1,1-Dichloroethene	☐	☐	☐	☒	
Acetone	☐	☐	☐	☒	
Carbon disulfide	☐	☐	☐	☒	
Iodomethane	☐	☐	☒	☐	10ng Missing VQL = 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☒	
Isopropyl ether	☐	☐	☐	☒	
tert-Butyl alcohol	☐	☐	☐	☒	
trans-1,2-DCE	☐	☐	☐	☒	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☒	
1,1-Dichloroethane	☐	☐	☐	☒	
Methylene Chloride	☐	☐	☐	☒	
Vinyl acetate	☐	☐	☐	☒	
2,2-Dichloropropane	☐	☐	☐	☒	
2-Butanone	☐	☐	☐	☒	
1,1,1-Trichloroethane	☐	☐	☐	☒	
1,1-Dichloropropene	☐	☐	☐	☒	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☒	
Carbon Tetrachloride	☐	☐	☐	☒	
cis-1,2-DCE	☐	☐	☐	☒	
Benzene	☐	☐	☐	☒	
Chloroform	☐	☐	☐	☒	
Bromochloromethane	☐	☐	☐	☒	
Trichloroethene (TCE)	☐	☐	☐	☒	
Dibromofluoromethane	N/A	N/A	☐	☒	
1,2-Dichloroethane-d4	N/A	N/A	☐	☒	
1,2-Dichloroethane (EDC)	☐	☐	☐	☒	
1,2-Dichloropropane	☐	☐	☐	☒	
4-Methyl-2-pentanone	☐	☐	☐	☒	
Toluene-d8	N/A	N/A	☐	☒	
Toluene	☐	☐	☐	☒	
2-Choroethyl vinyl ether	☐	☐	☐	☒	
cis-1,3-dichloropropene	☐	☐	☐	☒	
Bromodichloromethane	☐	☐	☐	☒	
Dibromomethane	☐	☐	☐	☒	
2-Hexanone	☐	☐	☐	☒	
Tetrachloroethene (PCE)	☐	☐	☐	☒	
1,3-Dichloropropane	☐	☐	☐	☒	
trans-1,3-dichloropropene	☐	☐	☐	☒	
Ethylbenzene	☐	☐	☐	☒	

This Document Has Been Approved for Use at Heal on 3/7/2014 by : [signature] and [signature]

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	VAL: 227.27 ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: RT 6-26-14

QA: [signature] NBG/26/14

Additional Comments:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\070314v\50ng ccv 7-2-2014.SMS Lab Sample ID: 50ng ccv

Instrument ID: VAL Date Analyzed: 7/2/2014 Time Analyzed: 09:49

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	56594	7.99	87873	14.30	50165	17.91						
UPPER LIMIT	113188	8.49	175746	14.80	100330	18.41						
LOWER LIMIT	28297	7.49	43937	13.80	25083	17.41						
EPA SAMPLE NO												
rtm 7-2-20	62427	7.99	89655	14.31	50284	17.91						
5mL-rb 7-2	55090	7.99	83630	14.30	48646	17.91						
2.5ug gro	59809	7.99	87110	14.31	48929	17.91						
2.5ug gro	61707	7.99	88818	14.30	49548	17.90						
200ng anne	57289	7.99	83835	14.30	47652	17.90						
100ng lcs	56311	7.99	85498	14.30	47448	17.91						
vcb 7-2-20	55310	7.99	80691	14.30	45972	17.90						
1406b35-00	55913	7.99	85928	14.31	47729	17.91						
1406b35-00	55511	7.99	80348	14.30	45944	17.91						
1406b35-00	52716	7.99	77752	14.30	44480	17.91						
1406b35-00	52804	8.00	75976	14.31	44846	17.91						
1406b35-00	52215	8.00	76955	14.31	45017	17.91						
1407077-00	53691	8.00	76852	14.30	42486	17.91						
1407077-00	57035	8.00	85929	14.31	46877	17.91						
1407077-00	57406	8.00	83830	14.30	46609	17.91						
1407077-00	57277	8.00	85340	14.31	46356	17.91						

7-3-14

WB 7/3/14

7/3/2014 9:34

Analyst: RAA

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
1406d88-00	39625	8.00	68483	14.31	46375	17.91						
1406d88-00	39117	8.00	65844	14.31	558 D	18.02 D						
1406d88-00	39331	8.00	64910	14.31	46289	17.91						
1406d88-00	38394	8.00	66533	14.31	46033	17.92						
1406d88-00	36503	8.00	61262	14.31	44849	17.92						
1406d88-00	38191	8.00	65343	14.31	45908	17.92						
1406d88-00	38262	8.00	62695	14.31	43711	17.92						
1406d88-00	38363	8.00	64014	14.31	44971	17.91						
1406d88-00	36840	7.99	62033	14.31	43923	17.91						
1406d88-00	36885	7.99	62353	14.31	46182	17.91						
1406d88-00	37340	7.99	63177	14.31	46396	17.91						
1406c22-01	52613	8.00	82383	14.31	44203	17.91						
1406c22-01	55951	7.99	84253	14.31	47176	17.91						
rtm 7-2-20	51152	7.99	75581	14.31	44450	17.91						
b1 7-2-201	54547	7.99	82725	14.31	46555	17.91						
100ng ccv	53687	7.99	82406	14.31	45866	17.91						
2.25ug gro	57982	7.99	83337	14.31	48157	17.91						
vcb2 7-2-2	55285	7.99	83017	14.31	47269	17.91						
1407066-00	43572	7.98	76714	14.30	49919	17.91						
1407066-00	37924	7.98	66939	14.30	48651	17.91						
1407066-00	38886	7.98	68222	14.30	48685	17.91						
1407066-00	37043	7.98	63497	14.30	48477	17.91						
1407066-00	38145	7.99	66414	14.31	48234	17.91						
1407066-00	38258	7.98	68596	14.31	50019	17.91						
1407066-00	36411	7.98	68401	14.31	48173	17.91						
1407066-00	35858	7.98	65886	14.30	47216	17.91						
1406d72-00	37159	7.99	65899	14.31	47856	17.91						
1406d72-00	36754	7.98	65065	14.31	45080	17.91						
1406d72-00	36220	7.98	65844	14.31	46445	17.91						
1406d72-00	36508	7.98	67468	14.31	47651	17.91						
1406d72-00	36241	7.98	66730	14.30	46200	17.91						
1406d72-00	37320	7.98	66030	14.30	47074	17.91						
1406d72-00	36670	7.98	69066	14.30	48503	17.90						

Pt 7-3-14

DB 7/3/14

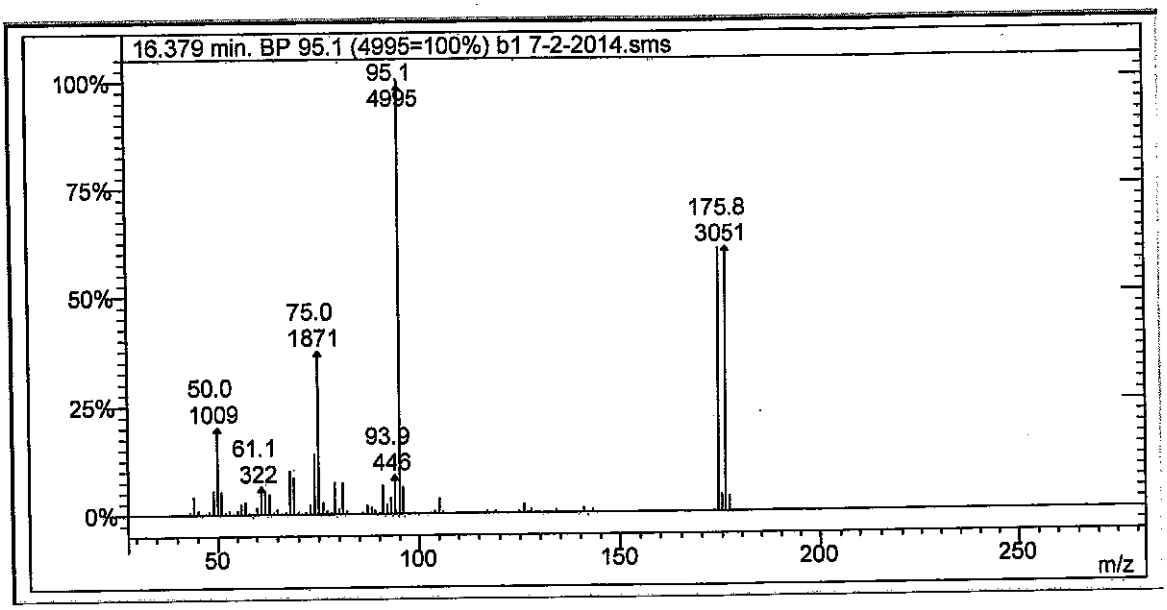
Analyst: RAA

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

BFB 8260B Report



Lab File ID: b1 7-2-2014.sms

Injection Date: 7/2/2014

Injection Time: 22:27

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.20	PASS
75	30-60% of m/z 95	37.46	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.23	PASS
173	<2% of m/z 174	0.49	PASS
174	>50% of m/z 95	60.72	PASS
175	5-9% of m/z 174	6.76	PASS
176	>95% but <101% of m/z 174	100.59	PASS
177	5-9% of m/z 176	5.77	PASS

KJH
7/3/14
✓ JB 7/3/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): Data\2014v\0614v\062314v all crvs\100ng crv 6-23-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 6/23/2014 Time Analyzed: 16:23

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	60311	8.01	86333	14.31	46092	17.92						
UPPER LIMIT	120622	8.51	172666	14.81	92184	18.42						
LOWER LIMIT	30156	7.51	43167	13.81	23046	17.42						
EPA SAMPLE NO												
100ng ccv	53687	7.99	82406	14.31	45866	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7-3-14

✓ WB 7/3/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/2/2014 Time: 22:55

Heated Purge (Y/N): No Initial Cal. Sample Date: 6/23/2014 6/23/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 17:20 17:20

Initial Calibration File: H:\Val\Data\2014v\0614v\062314v all CRVs\100ng crv 6-23-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.098	0.100	100.00	99.48	0.5	30.0	PASS	PASS
Chloromethane	0.550	0.100	100.00	117.41	-17.4	30.0	PASS	PASS
Vinyl chloride	1.872	0.100	100.00	109.49	-9.5	20.0	PASS	PASS
Chloroethane	0.239	0.100	100.00	104.75	-4.7	30.0	PASS	PASS
Bromomethane	0.917	0.100	100.00	139.13	-39.1	30.0	FAIL	PASS
Trichlorofluoromethane	0.896	0.100	100.00	101.85	-1.8	30.0	PASS	PASS
1,1-Dichloroethene	1.329	0.100	100.00	97.81	2.2	20.0	PASS	PASS
Acetone	0.545	0.100	200.00	165.87	17.1	40.0	PASS	PASS
Carbon disulfide	1.222	0.100	200.00	223.22	-11.6	40.0	PASS	PASS
Iodomethane	0.472	0.100	200.00	324.34	-62.2	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.485	0.100	200.00	210.21	-5.1	30.0	PASS	PASS
Isopropyl ether	1.776	0.100	200.00	232.59	-16.3	40.0	PASS	PASS
tert-Butyl alcohol	0.308	0.100	2000.00	1744.27	12.8	40.0	PASS	PASS
trans-1,2-DCE	1.554	0.100	100.00	107.11	-7.1	30.0	PASS	PASS
tert-Butyl ethyl ether	3.345	0.100	200.00	225.23	-12.6	40.0	PASS	PASS
1,1-Dichloroethane	1.696	0.100	100.00	103.55	-3.6	30.0	PASS	PASS
Methylene Chloride	1.727	0.100	100.00	112.21	-12.2	30.0	PASS	PASS
Vinyl Acetate	1.726	0.100	200.00	132.41	33.8	40.0	PASS	PASS
2,2-Dichloropropane	0.819	0.100	100.00	89.50	10.5	30.0	PASS	PASS
2-Butanone	0.599	0.100	200.00	152.08	24.0	40.0	PASS	PASS
1,1,1-Trichloroethane	1.584	0.100	100.00	106.47	-6.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.659	0.100	200.00	212.76	-6.4	40.0	PASS	PASS
1,1-Dichloropropene	0.797	0.100	100.00	111.95	-11.9	30.0	PASS	PASS
Carbon Tetrachloride	3.259	0.100	100.00	108.90	-8.9	30.0	PASS	PASS
cis-1,2-DCE	2.041	0.100	100.00	108.89	-8.9	30.0	PASS	PASS
Benzene	1.752	0.100	100.00	104.73	-4.7	30.0	PASS	PASS
Chloroform	1.117	0.100	100.00	107.79	-7.8	20.0	PASS	PASS
Bromochloromethane	0.374	0.100	100.00	116.76	-16.8	30.0	PASS	PASS
Trichloroethene (TCE)	1.179	0.100	100.00	130.79	-30.8	30.0	FAIL	PASS
Dibromofluoromethane	1.432	0.100	50.00	48.18	3.6	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.146	0.100	50.00	46.25	7.5	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.667	0.100	100.00	102.11	-2.1	30.0	PASS	PASS
1,2-Dichloropropane	1.996	0.100	100.00	107.10	-7.1	20.0	PASS	PASS
4-Methyl-2-pentanone	1.847	0.100	200.00	178.80	10.6	40.0	PASS	PASS
Toluene-d8	1.641	0.100	50.00	43.24	13.5	30.0	PASS	PASS

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.562	0.100	100.00	101.92	-1.9	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.975	0.100	200.00	244.97	-22.5	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.251	0.100	100.00	105.22	-5.2	30.0	PASS	PASS
cis-1,3-dichloropropene	1.947	0.100	100.00	95.26	4.7	30.0	PASS	PASS
2-Hexanone	0.889	0.100	200.00	167.62	16.2	40.0	PASS	PASS
Bromodichloromethane	2.287	0.100	100.00	97.72	2.3	30.0	PASS	PASS
Dibromomethane	1.151	0.100	100.00	101.76	-1.8	30.0	PASS	PASS
1,3-Dichloropropane	1.534	0.100	100.00	99.30	0.7	30.0	PASS	PASS
trans-1,3-dichloropropene	0.826	0.100	100.00	101.95	-1.9	30.0	PASS	PASS
Ethylbenzene	2.979	0.100	100.00	102.61	-2.6	20.0	PASS	PASS
mp-Xylenes	2.697	0.100	200.00	204.69	-2.3	30.0	PASS	PASS
1,1,2-Trichloroethane	1.710	0.100	100.00	98.36	1.6	30.0	PASS	PASS
Chlorobenzene	1.286	0.300	100.00	100.49	-0.5	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.444	0.100	100.00	97.09	2.9	30.0	PASS	PASS
o-Xylene	2.677	0.100	100.00	103.32	-3.3	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.319	0.100	100.00	104.47	-4.5	30.0	PASS	PASS
Dibromochloromethane	1.265	0.100	100.00	102.87	-2.9	30.0	PASS	PASS
Isopropylbenzene	2.549	0.100	100.00	101.82	-1.8	30.0	PASS	PASS
Styrene	1.261	0.100	100.00	100.94	-0.9	30.0	PASS	PASS
n-Propylbenzene	6.082	0.100	100.00	96.48	3.5	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.375	0.100	100.00	98.18	1.8	30.0	PASS	PASS
tert-Butylbenzene	5.167	0.100	100.00	103.25	-3.2	30.0	PASS	PASS
2-Chlorotoluene	1.556	0.100	100.00	102.74	-2.7	30.0	PASS	PASS
4-Bromofluorobenzene	1.750	0.100	50.00	44.12	11.8	30.0	PASS	PASS
sec-Butylbenzene	3.196	0.100	100.00	88.47	11.5	30.0	PASS	PASS
4-Chlorotoluene	1.574	0.100	100.00	94.25	5.8	30.0	PASS	PASS
Bromobenzene	1.433	0.100	100.00	102.07	-2.1	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.640	0.100	100.00	102.47	-2.5	30.0	PASS	PASS
4-Isopropyltoluene	4.843	0.100	100.00	101.51	-1.5	30.0	PASS	PASS
Bromoform	1.590	0.100	100.00	85.05	14.9	30.0	PASS	PASS
1,2,3-Trichloropropane	1.333	0.100	100.00	89.72	10.3	30.0	PASS	PASS
n-Butylbenzene	4.565	0.100	100.00	98.08	1.9	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.470	0.300	100.00	78.48	21.5	30.0	PASS	PASS
1,3-Dichlorobenzene	2.107	0.100	100.00	101.00	-1.0	30.0	PASS	PASS
1,4-Dichlorobenzene	2.066	0.100	100.00	102.30	-2.3	30.0	PASS	PASS
1,2-Dichlorobenzene	2.014	0.100	100.00	97.19	2.8	30.0	PASS	PASS
Hexachlorobutadiene	4.681	0.100	100.00	94.62	5.4	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.793	0.100	100.00	84.59	15.4	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.648	0.100	100.00	102.70	-2.7	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.639	0.100	100.00	100.13	-0.1	30.0	PASS	PASS
Naphthalene	2.933	0.100	100.00	89.25	10.8	30.0	PASS	PASS
2-Methylnaphthalene	2.351	0.100	100.00	91.00	9.0	40.0	PASS	PASS
1-Methylnaphthalene	2.219	0.100	100.00	91.29	8.7	40.0	PASS	PASS

MF 7.3.14

✓ JB 7/3/14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

rerun on a different instrument cg 7-2-14

JB 7/3/14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

cdg 7.2.14

✓ WB 7/3/14

Analyst: cadg

eneric SampleList Printout - Wed Jul 02 18:45:26 2014

ampleList: C:\AgilentWS\070214m.smp

reated: Wed Jul 02 09:33:21 2014
odified: Wed Jul 02 18:45:22 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	b3	none sure @10:50
4	10ppb 5035 ccv	below @ 11:28
	Notes V-54-0432	
5	lcs-14027	below
	Notes V-11-8032 (10ppb)	
6	mb-14027	none sure @12:27
7	1407066-001a	below
	Notes x1 low level pb14027	
8	1407066-002a	below
	Notes x1 low level pb14027	
9	1407066-003a	below
	Notes x1 low level pb14027	
10	1407066-004a	below
	Notes x1 low level pb14027	
11	1407066-005a	below
	Notes x1 low level pb14027	
12	1407066-006a	below
	Notes x1 low level pb14027	
13	1407066-007a	below
	Notes x1 low level pb14027	
14	1407066-001ams	below
	Notes x1 low level pb14027 V-11-8032	
15	1407066-001amsd	below
	Notes x1 low level pb14027 V-11-8032	
16	1407139-001a	below
	Notes x1 low level pb14027	
17	1407139-002a	below
	Notes x1 low level pb14027	
18	1407139-003a	below
	Notes x1 low level pb14027	
19	1407139-004a	below
	Notes x1 low level pb14027	
20	1407139-005a	below
	Notes x1 low level pb14027	
21	1407139-006a	below
	Notes x1 low level pb14027	
22	1407139-007a	below
	Notes x1 low level pb14027	
23	1407139-008a	below
	Notes x1 low level pb14027	
24	1407139-009a	below
	Notes x1 low level pb14027	
25	1407139-010a	below
	Notes x1 low level pb14027	
26	1407139-011a	below
	Notes x1 low level pb14027 @11:03	
27	b4	none
28	b5	none sure @12:03
29	10ppb ccv	below
	Notes V-54-0432 @12:32	
30	b6	none
31	1407139-001ams	below
	Notes x1 low level pb14027 V-11-8032 r1	
32	1407139-001amsd	below
	Notes x1 low level pb14027 V-11-8032 @2:01	
33	b7	none
34	b8	none
35		

Loaded By: 07.2.14
1st Review By: 07.3.14
QA'd By: WB 7/7/14

Directory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\agilentws\070214m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 7-1-14

Calibration Name: 070114rb 5035-8260 low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☑	☐	☐	☑	
Chloromethane	☑	☐	☐	☑	
Vinyl chloride	☑	☐	☐	☑	
Chloroethane	☑	☐	☐	☑	
Bromomethane	☑	☐	☐	☑	
Trichlorofluoromethane	☑	☐	☐	☑	
1,1-Dichloroethene	☑	☐	☐	☑	
Acetone	☑	☐	☐	☑	
Carbon disulfide	☑	☐	☐	☑	
Iodomethane	☑	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☑	☐	☑	☐	UQL=40ppb
Isopropyl ether	☑	☐	☑	☐	UQL= 50ppb
tert-Butyl alcohol	☑	☐	☑	☐	UQL= 400ppb
trans-1,2-DCE	☑	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☑	☐	☑	☐	UQL= 100ppb
1,1-Dichloroethane	☑	☐	☑	☐	PQL= 2ppb UQL= 50ppb
Methylene Chloride	☑	☐	☐	☑	
Vinyl acetate	☑	☐	☐	☑	
2,2-Dichloropropane	☐	☑	☑	☐	rerun on a different instrument
2-Butanone	☑	☐	☐	☑	
1,1,1-Trichloroethane	☑	☐	☐	☑	
1,1-Dichloropropene	☑	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☑	☐	☑	☐	UQL= 50ppb
Carbon Tetrachloride	☑	☐	☐	☑	
cis-1,2-DCE	☑	☐	☐	☑	
Benzene	☑	☐	☐	☑	
Chloroform	☑	☐	☐	☑	
Bromochloromethane	☑	☐	☐	☑	
Trichloroethene (TCE)	☑	☐	☐	☑	
Dibromofluoromethane	N/A	N/A	☐	☑	
1,2-Dichloroethane-d4	N/A	N/A	☐	☑	
1,2-Dichloroethane (EDC)	☑	☐	☐	☑	
1,2-Dichloropropane	☑	☐	☐	☑	
4-Methyl-2-pentanone	☑	☐	☐	☑	
Toluene-d8	N/A	N/A	☐	☑	
Toluene	☑	☐	☑	☐	UQL= 100ppb
2-Choroethyl vinyl ether	☑	☐	☐	☑	
cis-1,3-dichloropropene	☑	☐	☐	☑	
Bromodichloromethane	☑	☐	☑	☐	UQL= 50ppb
Dibromomethane	☑	☐	☐	☑	
2-Hexanone	☑	☐	☐	☑	
Tetrachloroethene (PCE)	☑	☐	☐	☑	
1,3-Dichloropropane	☑	☐	☐	☑	
trans-1,3-dichloropropene	☑	☐	☐	☑	
Ethylbenzene	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: [signature] and [signature]

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☑	
1,1,2-Trichloroethane	☐	☐	☑	☐	UQL = 50 ppb
Chlorobenzene	☐	☐	☐	☑	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	UQL = 50 ppb
o-Xylene	☐	☐	☐	☑	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☑	
Dibromochloromethane	☐	☐	☐	☑	
Isopropylbenzene	☐	☐	☐	☑	
Styrene	☐	☐	☐	☑	
n-Propylbenzene	☐	☐	☐	☑	
1,3,5-Trimethylbenzene	☐	☐	☐	☑	
tert-Butylbenzene	☐	☐	☐	☑	
2-Chlorotoluene	☐	☐	☐	☑	
4-Bromofluorobenzene	N/A	N/A	☐	☑	
Bromobenzene	☐	☐	☑	☐	UQL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☑	
sec-Butylbenzene	☐	☐	☐	☑	
1,2,4-Trimethylbenzene	☐	☐	☐	☑	
4-Isopropyltoluene	☐	☐	☐	☑	
Bromoform	☐	☐	☐	☑	
1,2,3-Trichloropropane	☐	☐	☐	☑	
n-Butylbenzene	☐	☐	☐	☑	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☑	
1,3-Dichlorobenzene	☐	☐	☐	☑	
1,4-Dichlorobenzene	☐	☐	☐	☑	
1,2-Dichlorobenzene	☐	☐	☐	☑	
Hexachlorobutadiene	☐	☐	☐	☑	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☑	
1,2,4-Trichlorobenzene	☐	☐	☐	☑	
Naphthalene	☐	☐	☐	☑	
1,2,3-Trichlorobenzene	☐	☐	☐	☑	
2-Methylnaphthalene	☐	☐	☐	☑	
1-Methylnaphthalene	☐	☐	☐	☑	

Analyst: CO 7.2.14

QA: NB 7/3/14

Additional Comments:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\data\2014\0714m\070214m\10ppb 5035 ccv 7-2-2014.SMS Lab Sample ID: 10ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 7/2/2014 Time Analyzed: 11:28

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	39129	7.14	56248	13.45	21182	17.03						
UPPER LIMIT	78258	7.64	112496	13.95	42364	17.53						
LOWER LIMIT	19565	6.64	28124	12.95	10591	16.53						
EPA SAMPLE NO												
b1 7-2-201	41983	7.13	58313	13.45	22398	17.03						
b2 7-2-201	42926	7.14	58115	13.45	22940	17.03						
b3 7-2-201	42126	7.14	59859	13.45	22718	17.03						
lcs-14027	38997	7.14	56044	13.45	20586	17.03						
mb-14027 7	39364	7.14	57187	13.45	20365	17.03						
1407066-00	23260	7.14	31044	13.45	11129	17.04						
1407066-00	26730	7.14	37036	13.45	12775	17.04						
1407066-00	25542	7.14	33746	13.45	12523	17.04						
1407066-00	26194	7.14	35705	13.45	12573	17.03						
1407066-00	37609	7.14	51384	13.45	19830	17.04						
1407066-00	37115	7.14	50952	13.45	19518	17.04						
1407066-00	23209	7.14	30488	13.45	11274	17.04						
1407066-00	37691	7.14	53351	13.45	19133	17.04						
1407066-00	43667	7.14	61290	13.45	22531	17.04						
1407066-00	28774	7.13	39200	13.45	13673	17.03						
1407139-00	24153	7.14	31966	13.45	12507	17.03						

7-3-14

7/7/14

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1407139-00	29107	7.14	41444	13.45	15607	17.03						
1407139-00	24569	7.14	33506	13.45	12870	17.04						
1407139-00	22980	7.14	31920	13.45	11721	17.04						
1407139-00	24635	7.14	35318	13.45	12598	17.04						
1407139-00	29358	7.14	42133	13.46	15390	17.04						
1407139-00	27036	7.14	33763	13.46	13070	17.04						
1407139-00	26447	7.14	35205	13.46	13295	17.03						
1407139-01	22562	7.14	29989	13.45	11816	17.04						
1407139-01	20779	7.14	29128	13.45	11370	17.04						
b4 7-2-201	38713	7.14	51662	13.45	20063	17.03						
b5 7-3-201	37721	7.14	49633	13.45	20284	17.03						
10ppb ccv	37992	7.14	56438	13.45	21249	17.04						
b6 7-3-201	42409	7.14	55128	13.45	20119	17.03						
1407139-00	38059	7.14	55215	13.45	20275	17.04						
1407139-00	39432	7.14	56410	13.45	19268	17.04						
b7 7-3-201	36009	7.14	50671	13.45	19175	17.03						
b8 7-3-201	37108	7.14	51870	13.45	18856	17.03						

cdg 7.3.14

JDB 7/7/14

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ata\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.sms Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
10ppb 5035	39129	7.14	56248	13.45	21182	17.03						

cg 7.3.14

JB 7/7/14

IS 1 = Pentafluorobenzene

IS 2 = Benzene-d5-, chloro-

IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 7/2/2014 Time: 11:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:37 20:37

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Lab File ID: c:\agilentws\data\10ppb 5035 ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.453	0.100	10.00	10.07	-0.7	30.0	PASS	PASS
Chloromethane	12.894	0.100	10.00	11.70	-17.0	30.0	PASS	PASS
Vinyl chloride	14.502	0.100	10.00	10.81	-8.1	20.0	PASS	PASS
Chloroethane	2.363	0.100	10.00	10.06	-0.6	30.0	PASS	PASS
Bromomethane	2.539	0.100	10.00	8.08	19.2	30.0	PASS	PASS
Trichlorofluoromethane	2.705	0.100	10.00	9.19	8.1	30.0	PASS	PASS
1,1-Dichloroethene	7.256	0.100	10.00	10.02	-0.2	20.0	PASS	PASS
Acetone	2.804	0.100	20.00	16.20	19.0	40.0	PASS	PASS
Carbon disulfide	5.673	0.100	20.00	21.25	-6.2	40.0	PASS	PASS
Iodomethane	8.089	0.100	20.00	17.49	12.5	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	5.342	0.100	20.00	14.51	27.5	30.0	PASS	PASS
Isopropyl ether	36.923	0.100	20.00	22.08	-10.4	40.0	PASS	PASS
tert-Butyl alcohol	0.364	0.100	200.00	101.58	49.2	40.0	FAIL	PASS
trans-1,2-DCE	13.793	0.100	10.00	9.61	3.9	30.0	PASS	PASS
tert-Butyl ethyl ether	118.814	0.100	20.00	23.58	-17.9	40.0	PASS	PASS
Methylene Chloride	13.099	0.100	10.00	15.66	-56.6	30.0	FAIL	PASS
1,1-Dichloroethane	1.843	0.100	10.00	8.64	13.6	30.0	PASS	PASS
Vinyl acetate	20.164	0.100	20.00	22.95	-14.8	40.0	PASS	PASS
2,2-Dichloropropane	0.693	0.100	10.00	3.03	69.7	30.0	FAIL	PASS
2-Butanone	6.989	0.100	20.00	15.93	20.4	40.0	PASS	PASS
1,1,1-Trichloroethane	4.317	0.100	10.00	9.24	7.6	30.0	PASS	PASS
1,1-Dichloropropene	7.619	0.100	10.00	9.98	0.2	30.0	PASS	PASS
tert-Amyl methyl ether	35.687	0.100	20.00	23.34	-16.7	40.0	PASS	PASS
Carbon Tetrachloride	1.920	0.100	10.00	10.15	-1.5	30.0	PASS	PASS
cis-1,2-DCE	2.954	0.100	10.00	10.09	-0.9	30.0	PASS	PASS
Benzene	10.234	0.100	10.00	10.19	-1.9	30.0	PASS	PASS
Chloroform	5.000	0.100	10.00	9.55	4.5	20.0	PASS	PASS
Bromochloromethane	4.585	0.100	10.00	11.59	-15.9	30.0	PASS	PASS
Trichloroethene (TCE)	16.437	0.100	10.00	10.27	-2.7	30.0	PASS	PASS
Dibromofluoromethane	3.148	0.100	20.00	20.98	-4.9	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.313	0.100	20.00	22.36	-11.8	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	72.419	0.100	10.00	11.21	-12.1	30.0	PASS	PASS
1,2-Dichloropropane	20.855	0.100	10.00	11.27	-12.7	20.0	PASS	PASS
4-Methyl-2-pentanone	6.622	0.100	20.00	19.72	1.4	40.0	PASS	PASS
Toluene-d8	1.821	0.100	20.00	19.40	3.0	30.0	PASS	PASS

7/2/2014 11:54 Page 1 of 2 10ppb 5035 ccv 7-2-2014.sms

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.969	0.100	10.00	10.17	-1.7	20.0	PASS	PASS
2-Chloroethyl vinyl ether	7.427	0.100	20.00	19.61	2.0	40.0	PASS	PASS
cis-1,3-dichloropropene	17.436	0.100	10.00	10.12	-1.2	30.0	PASS	PASS
Bromodichloromethane	3.215	0.100	10.00	10.80	-8.0	30.0	PASS	PASS
2-Hexanone	18.026	0.100	20.00	19.57	2.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	3.024	0.100	10.00	9.81	1.9	30.0	PASS	PASS
Dibromomethane	6.539	0.100	10.00	11.83	-18.3	30.0	PASS	PASS
1,3-Dichloropropane	6.337	0.100	10.00	10.90	-9.0	30.0	PASS	PASS
trans-1,3-dichloropropene	3.363	0.100	10.00	10.53	-5.3	30.0	PASS	PASS
Ethylbenzene	12.431	0.100	10.00	9.94	0.6	20.0	PASS	PASS
mp-Xylenes	10.773	0.100	20.00	19.97	0.2	30.0	PASS	PASS
1,1,2-Trichloroethane	7.503	0.100	10.00	10.76	-7.6	30.0	PASS	PASS
Chlorobenzene	5.802	0.300	10.00	10.32	-3.2	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.969	0.100	10.00	11.66	-16.6	30.0	PASS	PASS
o-Xylene	11.466	0.100	10.00	10.21	-2.1	30.0	PASS	PASS
Dibromochloromethane	1.676	0.100	10.00	10.75	-7.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.719	0.100	10.00	10.83	-8.3	30.0	PASS	PASS
Isopropylbenzene	11.200	0.100	10.00	10.00	0.0	30.0	PASS	PASS
Styrene	5.552	0.100	10.00	9.59	4.1	30.0	PASS	PASS
n-Propylbenzene	38.485	0.100	10.00	9.97	0.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	28.435	0.100	10.00	10.07	-0.7	30.0	PASS	PASS
tert-Butylbenzene	30.412	0.100	10.00	9.49	5.1	30.0	PASS	PASS
2-Chlorotoluene	9.546	0.100	10.00	10.13	-1.3	30.0	PASS	PASS
4-Bromofluorobenzene	2.541	0.100	20.00	19.78	1.1	30.0	PASS	PASS
Bromobenzene	45.018	0.100	10.00	11.09	-10.9	30.0	PASS	PASS
4-Chlorotoluene	68.227	0.100	10.00	10.82	-8.2	30.0	PASS	PASS
sec-Butylbenzene	37.107	0.100	10.00	9.11	8.9	30.0	PASS	PASS
1,2,4-Trimethylbenzene	90.326	0.100	10.00	9.91	0.9	30.0	PASS	PASS
4-Isopropyltoluene	30.025	0.100	10.00	9.83	1.7	30.0	PASS	PASS
Bromoform	11.853	0.100	10.00	9.66	3.4	30.0	PASS	PASS
1,2,3-Trichloropropane	14.001	0.100	10.00	9.97	0.3	30.0	PASS	PASS
n-Butylbenzene	51.992	0.100	10.00	10.63	-6.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	48.138	0.300	10.00	10.11	-1.1	30.0	PASS	PASS
1,3-Dichlorobenzene	12.991	0.100	10.00	10.17	-1.7	30.0	PASS	PASS
1,4-Dichlorobenzene	12.224	0.100	10.00	10.13	-1.3	30.0	PASS	PASS
1,2-Dichlorobenzene	12.724	0.100	10.00	10.35	-3.5	30.0	PASS	PASS
Hexachlorobutadiene	27.300	0.100	10.00	9.70	3.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	11.814	0.100	10.00	9.00	10.0	30.0	PASS	PASS
1,2,4-Trichlorobenzene	40.522	0.100	10.00	10.94	-9.4	30.0	PASS	PASS
Naphthalene	17.797	0.100	10.00	9.59	4.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	36.514	0.100	10.00	11.80	-18.0	30.0	PASS	PASS
2-Methylnaphthalene	31.985	0.100	10.00	8.95	10.5	40.0	PASS	PASS
1-Methylnaphthalene	43.761	0.100	10.00	9.01	9.9	40.0	PASS	PASS

cg 7-3-14

✓ DB 7/7/14

Analyst: cadg

Analytical Report
Lab Order: **1407066**
Date Reported: 7.7.14

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001
Client Sample ID: FFOR-CF-0009
Collection Date: 7/1/2014 9:43:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Aniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Carbazole	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Chrysene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Fluorene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Isophorone	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3+4-Methylphenol	0.077	0.21	J	mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Naphthalene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Nitrobenzene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Phenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pyridine	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Surr: 2-Fluorophenol	66.6	27.9-127		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: Phenol-d5	79.2	24.5-126		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 2,4,6-Tribromophenol	62.4	27.6-136		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: Nitrobenzene-d5	78.2	23.5-128		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 2-Fluorobiphenyl	78.8	22.6-132		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 4-Terphenyl-d14	75.2	28.1-128		%REC	1	14033	7/3/2014 1:35:00 PM

Believe from Bad DCM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benz(a)anthracene	0.11	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(a)pyrene	0.080	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(b)fluoranthene	0.095	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(g,h,i)perylene	0.16	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Chrysene	0.064	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Fluorene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Indeno(1,2,3-cd)pyrene	0.16	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Isophorone	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3+4-Methylphenol	0.075	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Naphthalene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Phenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pyrene	0.064	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pyridine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Surr: 2-Fluorophenol	61.6	27.9-127		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: Phenol-d5	71.0	24.5-126		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 2,4,6-Tribromophenol	55.8	27.6-136		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: Nitrobenzene-d5	66.1	23.5-128		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 2-Fluorobiphenyl	66.6	22.6-132		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 4-Terphenyl-d14	65.4	28.1-128		%REC	1	14033	7/3/2014 3:02:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-003
Client Sample ID: FFOR-CF-0011
Collection Date: 7/1/2014 11:14:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Aniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benz(a)anthracene	0.21	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(a)pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(b)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(g,h,i)perylene	0.18	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Chrysene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Di-n-octyl phthalate	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dichlorophenol	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dimethylphenol	ND	0.66		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Indeno(1,2,3-cd)pyrene	0.17	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Methylnaphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Naphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Nitroaniline	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Nitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pentachlorophenol	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Phenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Surr: 2-Fluorophenol	73.8	27.9-127		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: Phenol-d5	75.6	24.5-126		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 2,4,6-Tribromophenol	57.8	27.6-136		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: Nitrobenzene-d5	78.6	23.5-128		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 2-Fluorobiphenyl	78.1	22.6-132		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 4-Terphenyl-d14	69.9	28.1-128		%REC	1	14033	7/3/2014 3:31:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Isophorone	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Phenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pyridine	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Surr: 2-Fluorophenol	60.5	27.9-127	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: Phenol-d5	67.2	24.5-126	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 2,4,6-Tribromophenol	49.7	27.6-136	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: Nitrobenzene-d5	64.9	23.5-128	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 2-Fluorobiphenyl	67.3	22.6-132	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 4-Terphenyl-d14	64.4	28.1-128	%REC	1	14033	7/3/2014 4:01:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-005
Client Sample ID: FFOR-CF-0013
Collection Date: 7/1/2014 11:41:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Aniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benz(a)anthracene	0.20	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(a)pyrene	0.15	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(b)fluoranthene	0.17	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(g,h,i)perylene	0.30	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Chrysene	0.14	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Di-n-octyl phthalate	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dichlorophenol	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dimethylphenol	ND	0.66		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Indeno(1,2,3-cd)pyrene	0.22	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Methylnaphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Naphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Nitroaniline	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Nitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pentachlorophenol	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Phenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Surr: 2-Fluorophenol	70.7	27.9-127		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: Phenol-d5	73.1	24.5-126		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 2,4,6-Tribromophenol	54.3	27.6-136		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: Nitrobenzene-d5	74.4	23.5-128		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 2-Fluorobiphenyl	74.9	22.6-132		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 4-Terphenyl-d14	68.4	28.1-128		%REC	1	14033	7/3/2014 4:30:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006
Client Sample ID: FFOR-CF-0014
Collection Date: 7/1/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Acenaphthylene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Aniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Anthracene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benz(a)anthracene	0.34	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(a)pyrene	0.55	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(b)fluoranthene	0.77	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(g,h,i)perylene	1.4	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(k)fluoranthene	0.28	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroisopropyl)ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Carbazole	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Chrysene	0.65	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Di-n-octyl phthalate	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dibenz(a,h)anthracene	0.33	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dibenzofuran	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3,3'-Dichlorobenzidine	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dichlorophenol	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dimethylphenol	ND	0.65		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.35	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Fluorene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorocyclopentadiene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachloroethane	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Indeno(1,2,3-cd)pyrene	1.2	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Methylnaphthalene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3+4-Methylphenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodi-n-propylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodimethylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodiphenylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Naphthalene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Nitroaniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3-Nitroaniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Nitroaniline	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Nitrophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Nitrophenol	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pentachlorophenol	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Phenanthrene	0.091	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Phenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pyrene	0.44	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,2,4-Trichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4,5-Trichlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4,6-Trichlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Surr: 2-Fluorophenol	70.1	27.9-127		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: Phenol-d5	74.3	24.5-126		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 2,4,6-Tribromophenol	48.8	27.6-136		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: Nitrobenzene-d5	76.0	23.5-128		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 2-Fluorobiphenyl	76.0	22.6-132		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 4-Terphenyl-d14	71.7	28.1-128		%REC	1	14033	7/3/2014 5:00:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-007
Client Sample ID: FFOR-CF-0015
Collection Date: 7/1/2014 2:10:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Di-n-butyl phthalate	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Isophorone	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Methylphenol	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Nitroaniline	ND	0.45	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Nitrobenzene	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pentachlorophenol	ND	0.45	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Phenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pyridine	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Surr: 2-Fluorophenol	39.6	27.9-127	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: Phenol-d5	44.1	24.5-126	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 2,4,6-Tribromophenol	42.8	27.6-136	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: Nitrobenzene-d5	44.8	23.5-128	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 2-Fluorobiphenyl	47.8	22.6-132	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 4-Terphenyl-d14	59.1	28.1-128	%REC	1	14033	7/3/2014 5:29:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Environmental Analysis Laboratory

Extraction Method 3540

PREP BATCH REPORT

Time Started: 1200

Time Ended: 1500

Prep Start Date: 7/2/2014 10:51:37 A

Prep End Date:

Reviewed By: dam 7/3/14

Prep Batch ID: **14033** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14033		Soil			30	0	0	1	0.033	7/2/2014	
LCS-14033		Soil			30	0	0	1	0.033	7/2/2014	
1407066-001A	FFOR-CF-0009	MeOH (Soil)			30.30.27	0	0	1	0.033	7/2/2014	
1407066-001AMS		MeOH (Soil)			30 29.93	0	0	1	0.033	7/2/2014	
1407066-001AMSD		MeOH (Soil)			30.30.04	0	0	1	0.033	7/2/2014	
1407066-002A	FFOR-CF-0010	MeOH (Soil)			30.30.21	0	0	1	0.033	7/2/2014	
1407066-003A	FFOR-CF-0011	MeOH (Soil)			30.30.11	0	0	1	0.033	7/2/2014	
1407066-004A	FFOR-CF-0012	MeOH (Soil)			30.29.97	0	0	1	0.033	7/2/2014	
1407066-005A	FFOR-CF-0013	MeOH (Soil)			30.30.05	0	0	1	0.033	7/2/2014	
1407066-006A	FFOR-CF-0014	MeOH (Soil)			30.29.88	0	0	1	0.033	7/2/2014	
1407066-007A	FFOR-CF-0015	MeOH (Soil)			30.29.93	0	0	1	0.033	7/2/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4642	Sodium Sulfate	14881	Container-01 of 02	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14006	8270 Internal Standard	SAMP	24702	Container-01 of 01	20	µL
ST8270-14007	8270 BNA Surrogate	SAMP	24703	Container-01 of 01	500	µL
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500	µL

Varian Star Workstation - 8400 SampleList Mon Jul 07 11:20:52 2014

SampleList: C:\VarianWS\070314.smp

Created: Thu Jul 03 07:15:25 2014
Modified: Thu Jul 03 17:57:14 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm ll	1	below	1	1.0
	Notes sv110-0562				
3	40ppm	1	below	2	1.0
	Notes sv110-0593				
4					
5	mb-14011	1	below	3	1.0
	Notes x1 w LL				
6	lcs-14011	1	below	4	1.0
	Notes x1 w LL				
7	lcsd-14011	1	below	5	1.0
	Notes x1 w LL				
8	14067007-001b	1	below	6	1.0
	Notes x1 w LL				
9	14067007-002b	1	below	7	1.0
	Notes x1 w LL				
10	14067007-003b	1	below	8	1.0
	Notes x1 w LL				
11					
12	mb-14033	1	below	9	1.0
	Notes x1 soil				
13	lcs-14033	1	below	10	1.0
	Notes x1 soil				
14	1407066-001a	1	below	11	1.0
	Notes x1 soil				
15	1407066-001ams	1	below	12	1.0
	Notes x1 soil				
16	1407066-001amsd	1	below	13	1.0
	Notes x1 soil				
17	1407066-002a	1	below	14	1.0
	Notes x1 soil				
18	1407066-003a	1	below	15	1.0
	Notes soil FV=2mL				
19	1407066-004a	1	below	16	1.0
	Notes x1 soil				
20	1407066-005a	1	below	17	1.0
	Notes soil FV=2mL				
21	1407066-006a	1	below	18	1.0
	Notes soil FV=2mL				
22	1407066-007a	1	below	19	1.0
	Notes x1 soil				
23					

dam 7/7/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

JC 7.7.14

Create and update a new RecalcList: c:\varianws\070314.rcl.

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

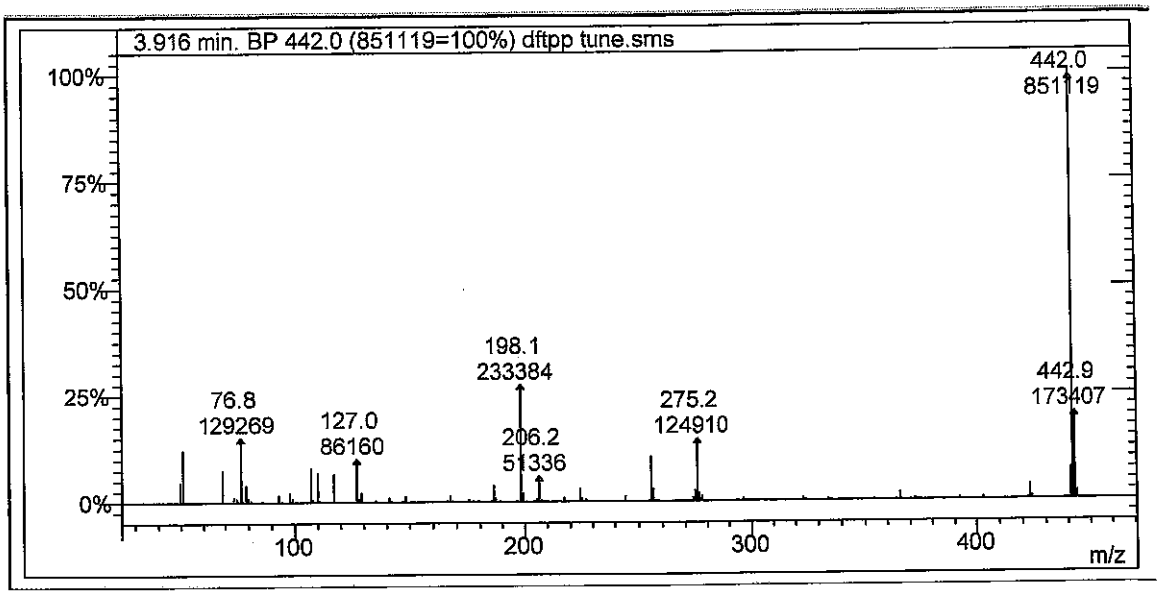
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/3/2014

Injection Time: 9:02

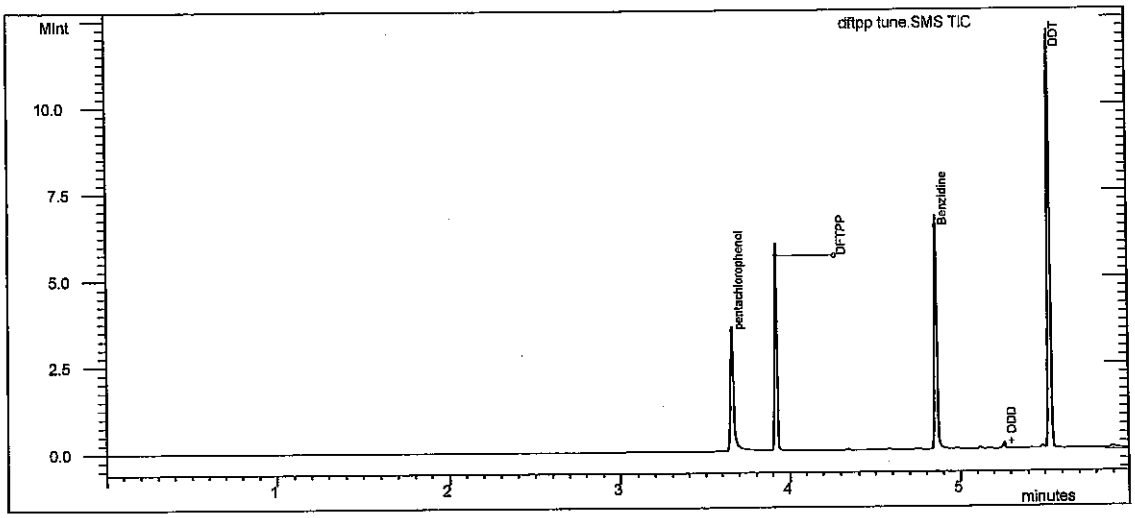
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.30	PASS
68	<2% of m/z 69	0.41	PASS
69	Present	7.56	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	10.12	PASS
197	<2% of m/z 198	0.96	PASS
198	Base peak	27.42	PASS
199	5-9% of m/z 198	7.34	PASS
275	10-60% of base peak	14.68	PASS
365	>1% of base peak	1.77	PASS
441	Present and <m/z 443	36.11	PASS
442	>50% of m/z 198	364.69	PASS
443	15-24% of m/z 442	20.37	PASS

dlm 7/3/14

7.7.14

Degradation Report

Acquisition Date:	7/3/2014 9:02:18 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.532	3.244E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.263	30257	5
DDE	4.982	1634	6

% Degradation of DDT: = .974

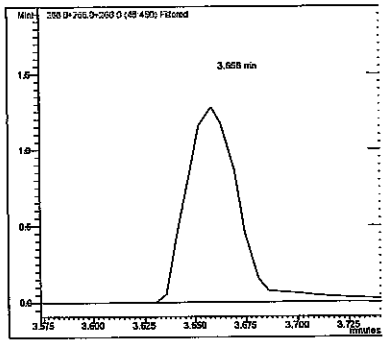
Lzo dwm 7/3/14

7.7.14

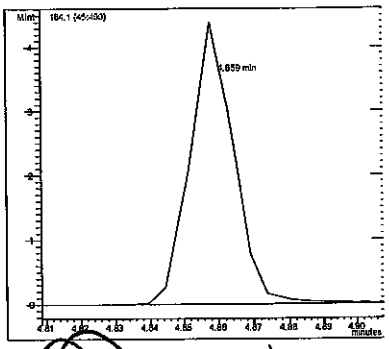
Tailing and Gaussian Factor Report

Acquisition Date:	7/3/2014 9:02:18 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.658 Area = 2.380E6



Benzidine
RT = 4.859 Area = 3.791E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.658	1.255	0.789
Benzidine	4.859	1.097	0.915

#	Compound Name	RT	Area
1	pentachlorophenol	3.658	2.380E6
3	Benzidine	4.859	3.791E6

dam 7/3/14

7.7.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
40ppm	181544	5.19	605554	6.91	275666	9.51	508421	11.76	560560	15.77	688404	17.93

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\070314\40ppm.SMS Lab Sample ID: 40ppm

Instrument ID: ELMO Date Analyzed: 7/3/2014 Time Analyzed: 09:44

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	181544	5.19	605554	6.91	275666	9.51	508421	11.76	560560	15.77	688404	17.93
UPPER LIMIT	363088	5.69	1.211E6	7.41	551332	10.01	1.017E6	12.26	1.121E6	16.27	1.377E6	18.43
LOWER LIMIT	90772	4.69	302777	6.41	137833	9.01	254211	11.26	280280	15.27	344202	17.43
EPA SAMPLE NO												
mb-14033	108344	5.19	355219	6.91	158460	9.51	335935	11.75	364573	15.77	415514	17.92
lcs-14033	105482	5.19	347281	6.91	148969	9.51	318466	11.76	349168	15.77	397616	17.93
1407066-00	98865	5.18	333483	6.91	151125	9.51	324142	11.75	367668	15.76	408880	17.92
1407066-00	95621	5.19	313919	6.91	138858	9.51	302696	11.76	329144	15.77	365589	17.93
1407066-00	113753	5.19	368733	6.91	163477	9.51	361761	11.76	391809	15.77	447027	17.93
1407066-00	112008	5.19	385649	6.91	167046	9.51	364857	11.76	381572	15.77	460041	17.93
1407066-00	93297	5.19	310474	6.91	142817	9.51	309093	11.75	337256	15.77	421843	17.92
1407066-00	109588	5.20	373936	6.92	160793	9.52	324574	11.76	346720	15.78	401011	17.93
1407066-00	100221	5.19	337008	6.91	147429	9.51	321691	11.76	332599	15.77	400514	17.93
1407066-00	88860 *	5.19	310010	6.91	135028 *	9.51	328786	11.76	344870	15.77	442756 D	17.93 D
1407066-00	111048	5.19	366184	6.92	162525	9.51	356380	11.76	366070	15.77	426198	17.93

* = NMR

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/3/2014 Time: 9:44

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\40ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.788	0.050	40.00	49.21	-23.0	40.0	PASS	PASS
Pyridine	11.143	0.050	40.00	48.71	-21.8	40.0	PASS	PASS
2-Fluorophenol	1.187	0.050	40.00	41.38	-3.5	40.0	PASS	PASS
Phenol-d5	1.141	0.050	40.00	41.87	-4.7	40.0	PASS	PASS
Phenol	1.255	0.050	40.00	40.81	-2.0	20.0	PASS	PASS
Aniline	3.707	0.050	40.00	36.24	9.4	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.090	0.050	40.00	41.14	-2.8	40.0	PASS	PASS
2-Chlorophenol	1.236	0.050	40.00	41.35	-3.4	40.0	PASS	PASS
1,3-Dichlorobenzene	1.454	0.050	40.00	38.38	4.1	40.0	PASS	PASS
1,4-Dichlorobenzene	1.455	0.050	40.00	40.66	-1.6	20.0	PASS	PASS
Benzyl alcohol	1.181	0.050	40.00	41.74	-4.4	40.0	PASS	PASS
1,2-Dichlorobenzene	1.511	0.050	40.00	42.80	-7.0	40.0	PASS	PASS
2-Methylphenol	1.001	0.050	40.00	40.98	-2.4	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.511	0.050	40.00	42.98	-7.4	40.0	PASS	PASS
3+4-Methylphenol	1.205	0.050	40.00	38.93	2.7	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.700	0.050	40.00	41.75	-4.4	40.0	PASS	PASS
Hexachloroethane	4.755	0.050	40.00	41.02	-2.6	40.0	PASS	PASS
Nitrobenzene-d5	0.314	0.050	40.00	40.38	-1.0	40.0	PASS	PASS
Nitrobenzene	0.341	0.050	40.00	42.68	-6.7	40.0	PASS	PASS
Isophorone	0.624	0.050	40.00	42.60	-6.5	40.0	PASS	PASS
2-Nitrophenol	0.304	0.050	40.00	39.15	2.1	20.0	PASS	PASS
2,4-Dimethylphenol	0.354	0.050	40.00	38.77	3.1	40.0	PASS	PASS
Benzoic acid	1.757	0.050	40.00	34.64	13.4	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.387	0.050	40.00	42.81	-7.0	40.0	PASS	PASS
2,4-Dichlorophenol	0.354	0.050	40.00	40.14	-0.4	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.314	0.050	40.00	38.20	4.5	40.0	PASS	PASS
Naphthalene	0.873	0.050	40.00	42.02	-5.0	40.0	PASS	PASS
4-Chloroaniline	0.369	0.050	40.00	38.58	3.6	40.0	PASS	PASS
Hexachlorobutadiene	0.587	0.050	40.00	35.22	11.9	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	40.00	40.21	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.251	0.050	40.00	39.77	0.6	40.0	PASS	PASS
1-Methylnaphthalene	0.238	0.050	40.00	37.04	7.4	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.417	0.050	40.00	33.07	17.3	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.327	0.050	40.00	36.75	8.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.291	0.050	40.00	35.05	12.4	40.0	PASS	PASS
2-Fluorobiphenyl	1.528	0.050	40.00	40.03	-0.1	40.0	PASS	PASS

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Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.554	0.050	40.00	39.81	0.5	40.0	PASS	PASS
2-Nitroaniline	1.071	0.050	40.00	38.40	4.0	40.0	PASS	PASS
Dimethyl phthalate	2.984	0.050	40.00	41.42	-3.6	40.0	PASS	PASS
2,6-Dinitrotoluene	0.689	0.050	40.00	39.97	0.1	40.0	PASS	PASS
Acenaphthylene	1.957	0.050	40.00	40.18	-0.5	40.0	PASS	PASS
3-Nitroaniline	1.038	0.050	40.00	38.21	4.5	40.0	PASS	PASS
Acenaphthene	1.221	0.050	40.00	38.68	3.3	20.0	PASS	PASS
2,4-Dinitrophenol	1.823	0.050	40.00	38.39	4.0	40.0	PASS	PASS
4-Nitrophenol	0.187	0.050	40.00	38.99	2.5	40.0	PASS	PASS
Dibenzofuran	0.809	0.050	40.00	35.27	11.8	40.0	PASS	PASS
2,4-Dinitrotoluene	0.349	0.050	40.00	37.80	5.5	40.0	PASS	PASS
Diethyl phthalate	2.510	0.050	40.00	39.23	1.9	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.700	0.050	40.00	33.10	17.2	40.0	PASS	PASS
Fluorene	2.402	0.050	40.00	37.13	7.2	40.0	PASS	PASS
4-Nitroaniline	1.877	0.050	40.00	39.02	2.5	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.350	0.050	40.00	46.82	-17.1	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.696	0.050	40.00	42.06	-5.1	20.0	PASS	PASS
Azobenzene	1.029	0.050	40.00	43.85	-9.6	40.0	PASS	PASS
2,4,6-Tribromophenol	1.685	0.050	40.00	40.79	-2.0	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.521	0.050	40.00	40.73	-1.8	40.0	PASS	PASS
Hexachlorobenzene	0.521	0.050	40.00	37.60	6.0	40.0	PASS	PASS
Pentachlorophenol	1.444	0.050	40.00	41.77	-4.4	20.0	PASS	PASS
Phenanthrene	1.015	0.050	40.00	42.22	-5.5	40.0	PASS	PASS
Anthracene	1.032	0.050	40.00	42.44	-6.1	40.0	PASS	PASS
Carbazole	0.932	0.050	40.00	39.37	1.6	40.0	PASS	PASS
Di-n-butyl phthalate	2.207	0.050	40.00	43.63	-9.1	40.0	PASS	PASS
Fluoranthene	0.867	0.050	40.00	37.32	6.7	20.0	PASS	PASS
Benzidine	0.470	0.050	40.00	34.53	13.7	40.0	PASS	PASS
Pyrene	0.803	0.050	40.00	39.60	1.0	40.0	PASS	PASS
4-Terphenyl-d14	1.156	0.050	40.00	39.02	2.4	40.0	PASS	PASS
Butyl benzyl phthalate	1.007	0.050	40.00	42.55	-6.4	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.722	0.050	40.00	37.56	6.1	40.0	PASS	PASS
Benz[a]anthracene	1.533	0.050	40.00	34.40	14.0	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.902	0.050	40.00	30.78	23.0	40.0	PASS	PASS
Chrysene	1.893	0.050	40.00	37.12	7.2	40.0	PASS	PASS
Di-n-octyl phthalate	2.537	0.050	40.00	43.14	-7.8	20.0	PASS	PASS
Benzo(b)fluoranthene	1.484	0.050	40.00	41.14	-2.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.480	0.050	40.00	40.88	-2.2	40.0	PASS	PASS
Benzo[a]pyrene	1.406	0.050	40.00	41.47	-3.7	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.849	0.050	40.00	39.69	0.8	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.725	0.050	40.00	40.07	-0.2	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.799	0.050	40.00	37.88	5.3	40.0	PASS	PASS

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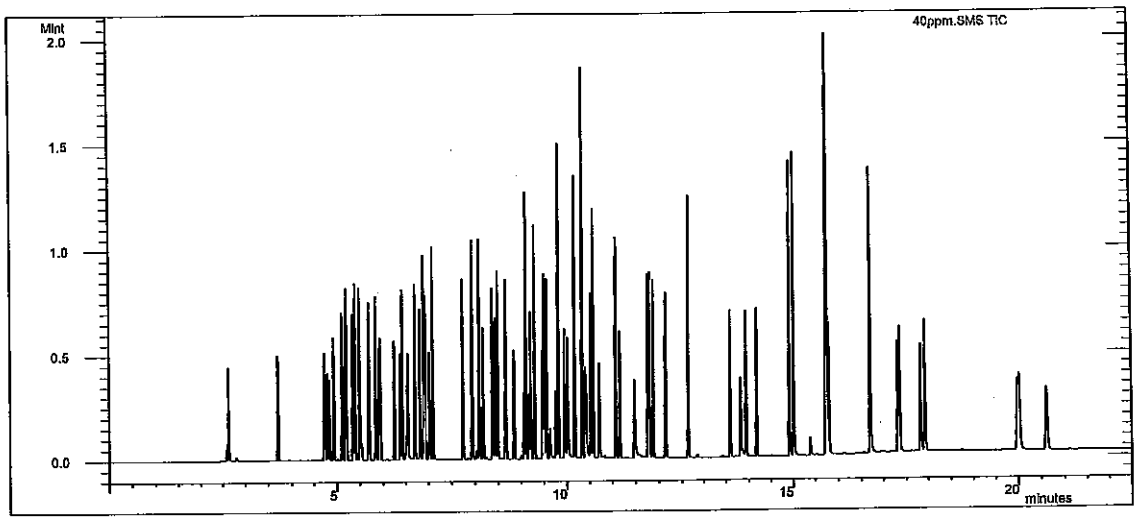
8270C Report

Sample Name:	40ppm	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0593	**Acquisition Date:**	7/3/2014 9:44:11 AM
Calculation Date:	7/3/2014 10:06:42 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.188	429	Identified	181544	40.000
Naphthalene-d8 (I.S)	6.911	605	Identified	605554	40.000
Acenaphthene-d10 (I.S)	9.511	871	Identified	275666	40.000
Phenanthrene-d10	11.757	1101	Identified	508421	40.000
Chrysene-d12 I.S	15.773	1509	Identified	560560	40.000
Perylene-d12 I.S	17.926	1735	Identified	688404	40.000
N-nitrosodimethylamine	2.595	164	Identified	687614	49.212
Pyridine	2.641	168	Identified	2.023E6	48.714
2-Fluorophenol	3.711	277	Identified	215518	41.384
Phenol-d5	4.717	380	Identified	207130	41.865
Phenol	4.733	382	Identified	227884	40.808
Aniline	4.787	388	Identified	672902	36.243
Bis(2-chloroethyl)ether	4.840	393	Identified	379397	41.138
2-Chlorophenol	4.930	402	Identified	224440	41.349
1,3-Dichlorobenzene	5.117	421	Identified	263963	38.380
1,4-Dichlorobenzene	5.210	431	Identified	264148	40.657
Benzyl alcohol	5.354	446	Identified	214410	41.745
1,2-Dichlorobenzene	5.405	451	Identified	274236	42.798
2-Methylphenol	5.492	460	Identified	181647	40.977
Bis(2-chloroisopropyl)ether	5.510	462	Identified	274225	42.979
3+4-Methylphenol	5.697	481	Identified	218812	38.933
N-Nitrosodi-n-propylamine	5.688	480	Identified	671728	41.753
Hexachloroethane	5.844	496	Identified	863298	41.023
Nitrobenzene-d5	5.917	503	Identified	189951	40.384

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Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.942	506	Identified	206370	42.681
Isophorone	6.250	537	Identified	377955	42.601
2-Nitrophenol	6.379	551	Identified	184319	39.153
2,4-Dimethylphenol	6.427	556	Identified	214448	38.771
Benzoic acid	6.528	566	Identified	1.064E6	34.643
Bis(2-chloroethoxy)methane	6.554	569	Identified	234491	42.813
2,4-Dichlorophenol	6.713	585	Identified	214608	40.143
1,2,4-Trichlorobenzene	6.827	597	Identified	190049	38.197
Naphthalene	6.942	608	Identified	528557	42.017
4-Chloroaniline	7.031	617	Identified	223342	38.576
Hexachlorobutadiene	7.103	625	Identified	355586	35.223
4-Chloro-3-methylphenol	7.745	690	Identified	255176	40.214
2-Methylnaphthalene	7.947	711	Identified	151814	39.772
1-Methylnaphthalene	8.094	726	Failed	144046	37.041
Hexachlorocyclopentadiene	8.172	734	Identified	252287	33.066
2,4,6-Trichlorophenol	8.377	755	Identified	90205	36.753
2,4,5-Trichlorophenol	8.435	761	Identified	80096	35.053
2-Fluorobiphenyl	8.494	767	Identified	421263	40.035
2-Chloronaphthalene	8.674	785	Identified	428472	39.809
2-Nitroaniline	8.854	804	Identified	295126	38.395
Dimethyl phthalate	9.110	830	Identified	822474	41.423
2,6-Dinitrotoluene	9.214	840	Identified	189980	39.972
Acenaphthylene	9.299	849	Identified	539410	40.181
3-Nitroaniline	9.475	867	Identified	286152	38.213
Acenaphthene	9.560	876	Identified	336712	38.678
2,4-Dinitrophenol	9.624	882	Identified	502493	38.385
4-Nitrophenol	9.755	896	Identified	51557	38.986
Dibenzofuran	9.818	903	Identified	222876	35.265
2,4-Dinitrotoluene	9.820	903	Identified	96218	37.796
Diethyl phthalate	10.167	939	Identified	692057	39.229
4-Chlorophenyl phenyl ether	10.335	956	Identified	192842	33.102
Fluorene	10.336	956	Identified	662058	37.129
4-Nitroaniline	10.400	963	Identified	517399	39.017
4,6-Dinitro-2-methylphenol	10.430	966	Identified	686581	46.823
N-Nitrosodiphenylamine	10.526	976	Identified	353910	42.059
Azobenzene	10.576	981	Identified	523236	43.847
2,4,6-Tribromophenol	10.709	994	Identified	856833	40.785
4-Bromophenyl phenyl ether	11.078	1032	Failed	264687	40.731
Hexachlorobenzene	11.162	1040	Identified	265024	37.603
Pentachlorophenol	11.481	1072	Identified	734125	41.767
Phenanthrene	11.792	1105	Identified	516070	42.216
Anthracene	11.870	1113	Identified	524451	42.445
Carbazole	12.136	1140	Identified	474049	39.367
Di-n-butyl phthalate	12.640	1191	Identified	1.122E6	43.626
Fluoranthene	13.597	1287	Identified	440687	37.316
Benzidine	13.833	1311	Identified	263190	34.529
Pyrene	13.944	1323	Identified	449919	39.605
4-Terphenyl-d14	14.179	1347	Identified	648045	39.020
Butyl benzyl phthalate	14.918	1421	Identified	564329	42.549
3,3'-Dichlorobenzidine	15.744	1506	Identified	965410	37.558

Operator: David Melius Inj. Notes: sv110-0593 40ppm.SMS

7/3/2014 10:07

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.757	1507	Identified	859545	34.403
Bis(2-ethylhexyl)phthalate	15.760	1507	Identified	505460	30.782
Chrysene	15.811	1513	Identified	1.061E6	37.115
Di-n-octyl phthalate	16.693	1604	Identified	1.422E6	43.139
Benzo(b)fluoranthene	17.311	1670	Identified	1.022E6	41.143
Benzo[k]fluoranthene	17.350	1674	Identified	1.019E6	40.883
Benzo[a]pyrene	17.829	1725	Identified	968034	41.472
Indeno[1,2,3-cd]pyrene	19.979	1954	Identified	584228	39.687
Dibenz[a,h]anthracene	20.020	1959	Identified	499231	40.066
Benzo[g,h,i]perylene	20.610	2021	Identified	549833	37.883

****
Revision Log
****

7/3/2014 10:06 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

an Star Workstation - 8400 SampleList Mon Apr 28 10:41:20 2014

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-827.0	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

TV
4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4.28.14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z	
51	10-80% of base peak	19.8			
68	<2% of m/z 69	0.1	(0.3)	69	
69	Present	22.3			
70	<2% of m/z 69	0.0			
127	10-80% of base peak	21.8			
197	<2% of m/z 198	0.0			
198	Base peak	100.0			
199	5-9% of m/z 198	5.8			
275	10-60% of base peak	34.5			
365	>1% of base peak	6.8			
441	Present and <m/z 443	3.9	(41.6)	443	
442	>50% of m/z 198	53.5			
443	15-24% of m/z 442	9.4	(17.5)	442	

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

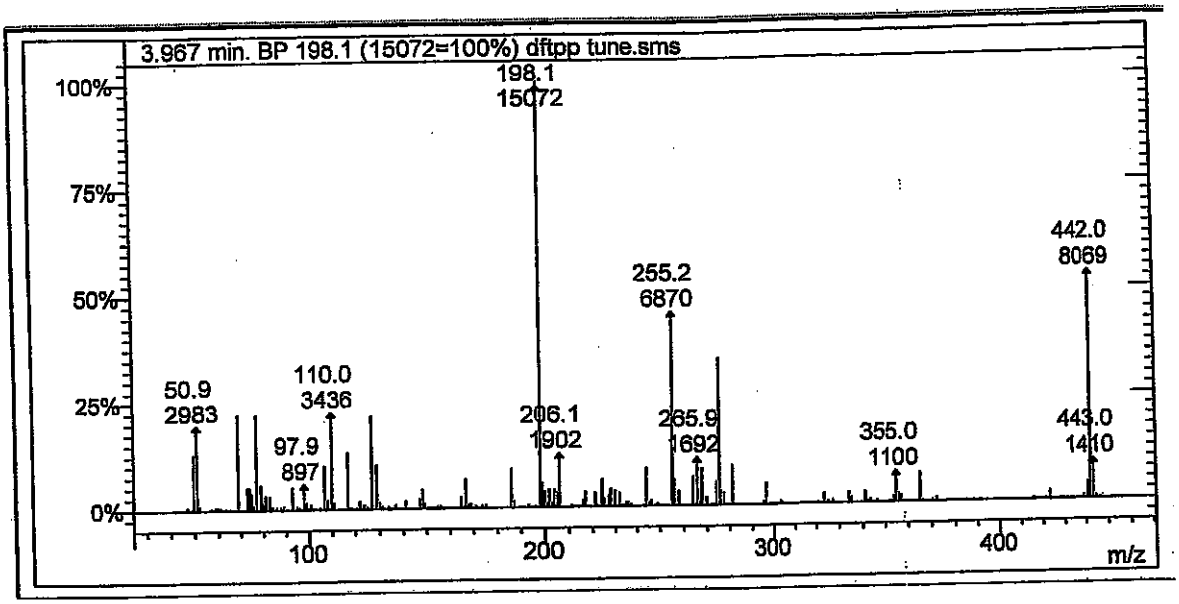
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dkm 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

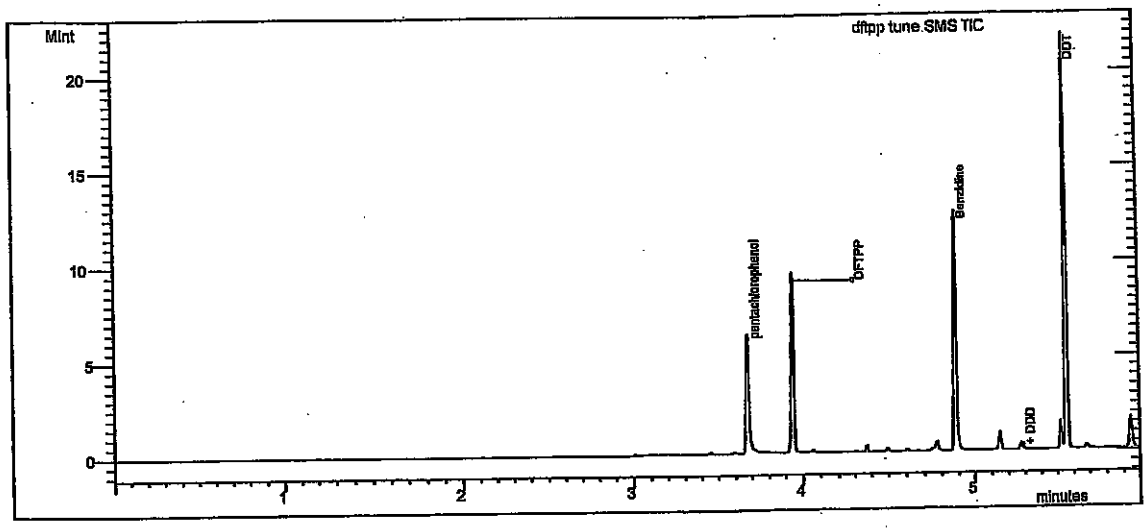
JDM 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

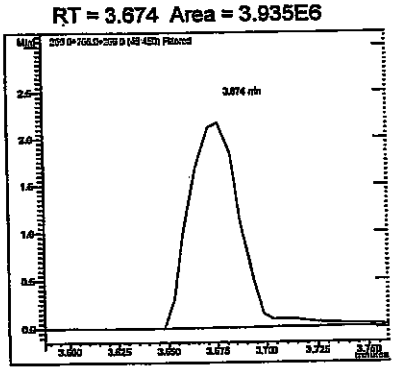
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

✓ 4-28-14

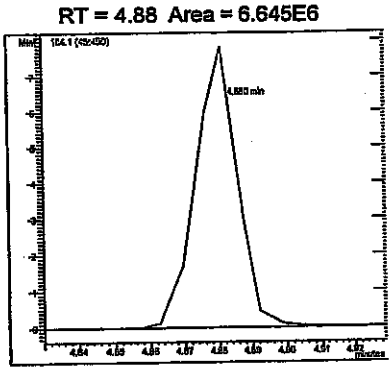
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

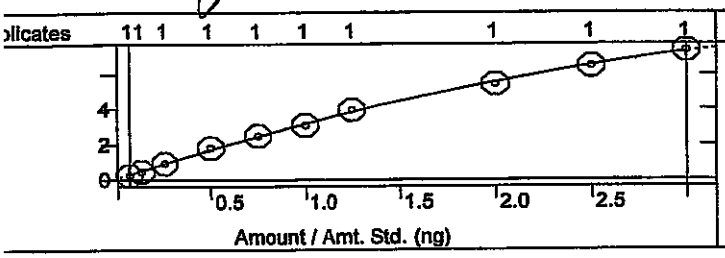
4/18/14

4.28.14

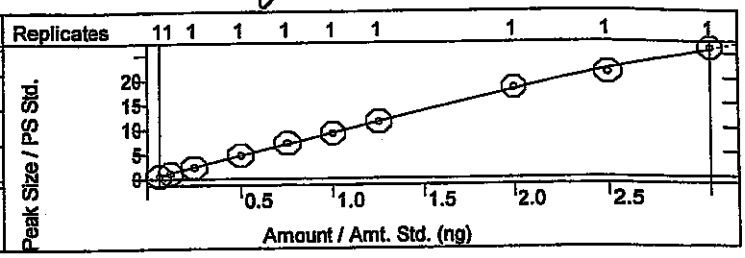
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

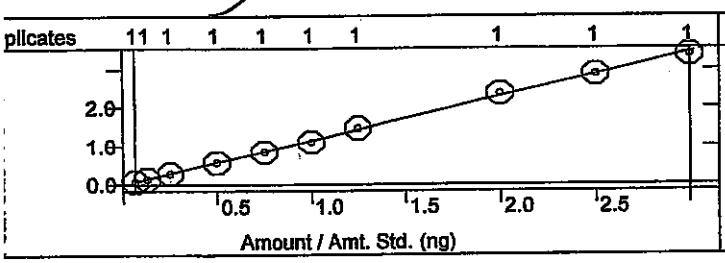
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



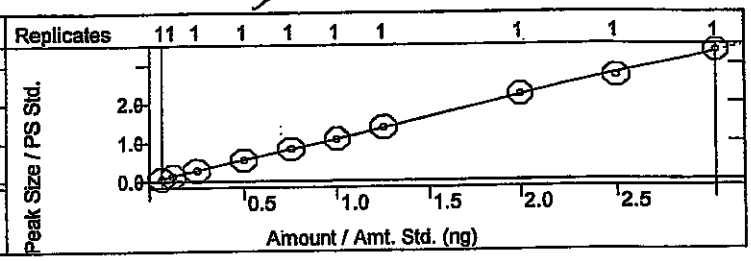
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



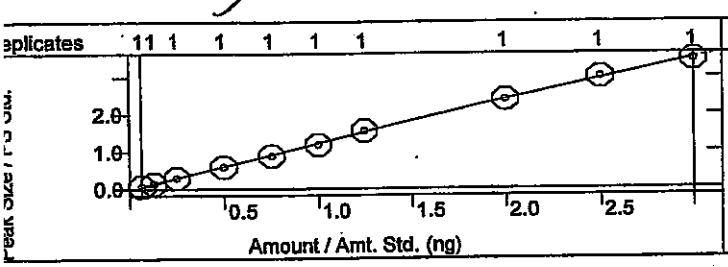
-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



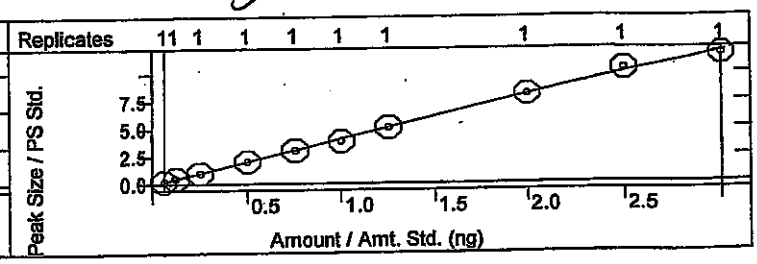
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



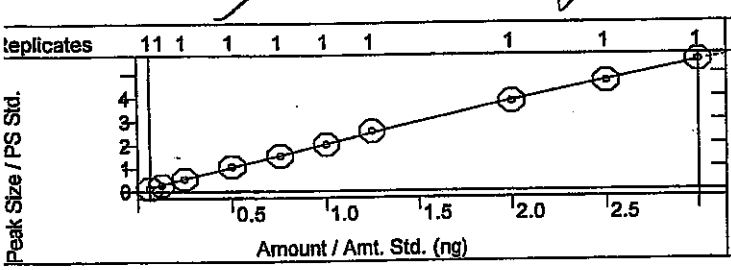
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



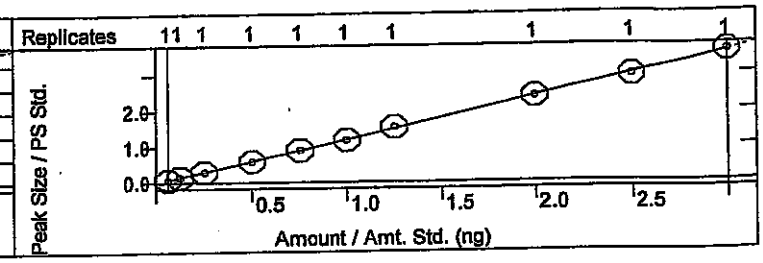
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



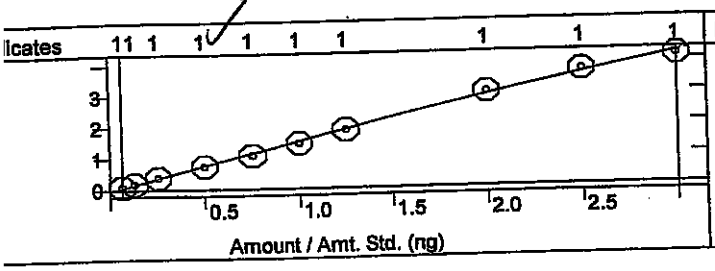
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



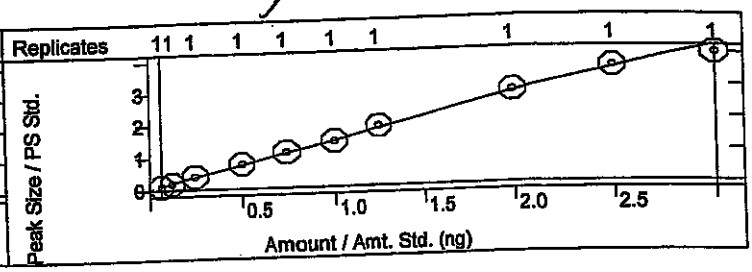
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
alc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
nple List:	N/A	Detector:	2000 Mass Spec
luence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

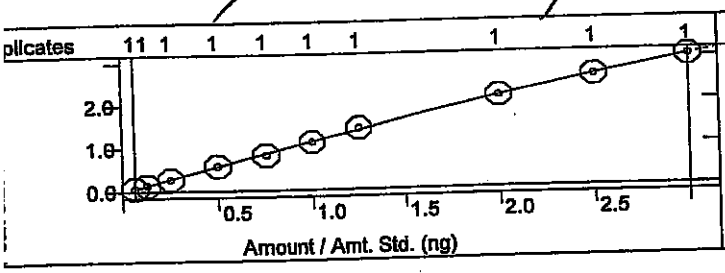
-Dichlorobenzene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
: -0.0693x2 +1.6278x -0.0442



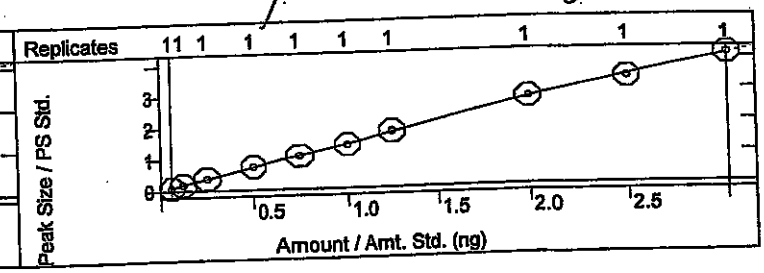
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



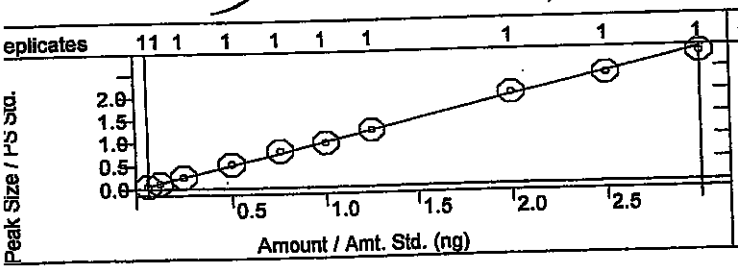
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



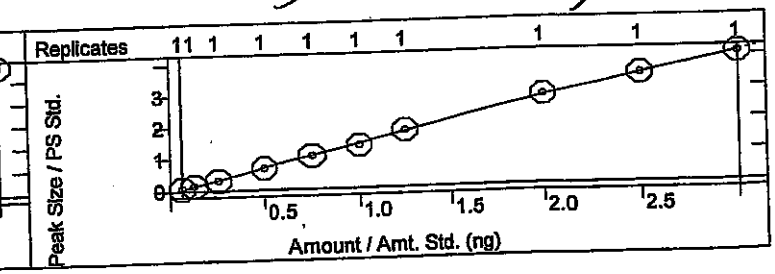
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



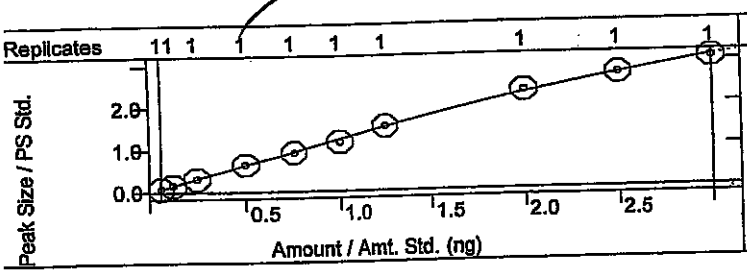
-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



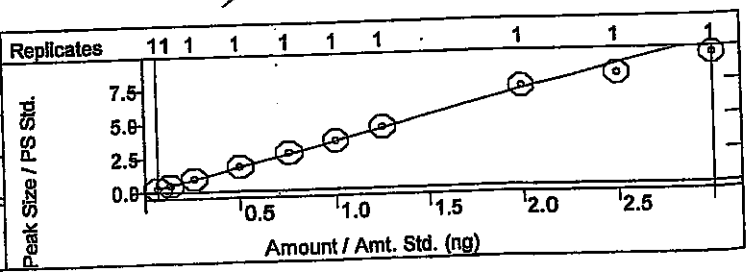
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



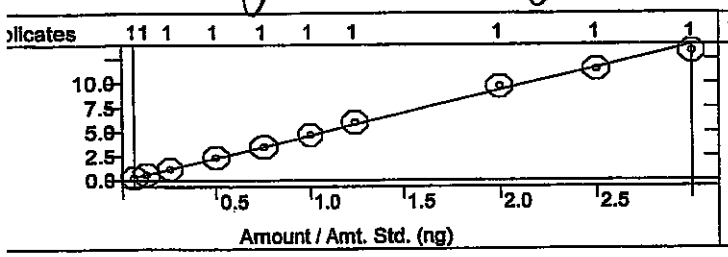
alibration Curves Report

V dam 4/28/14

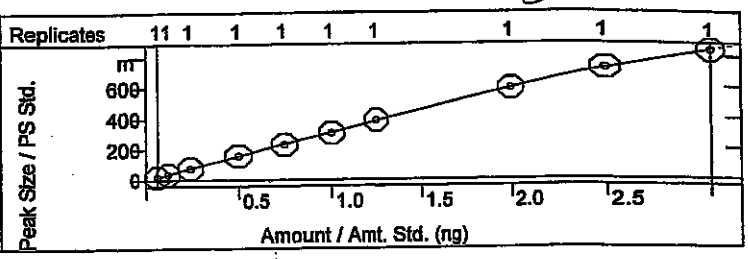
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

V 4.28.14

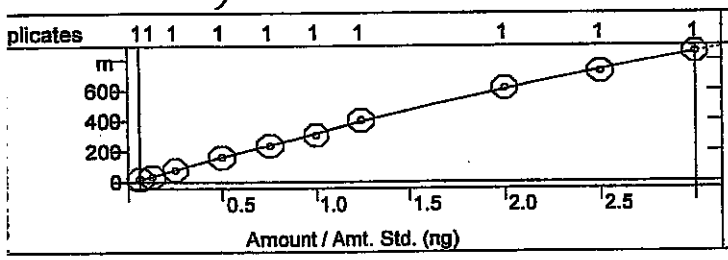
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



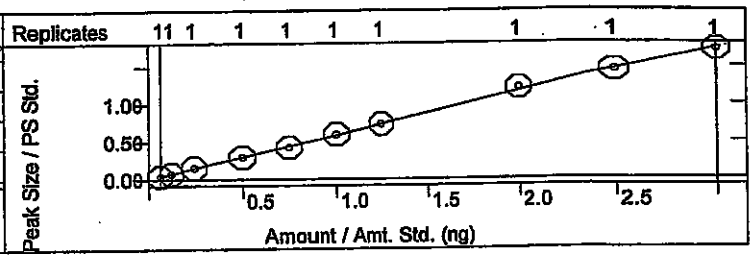
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



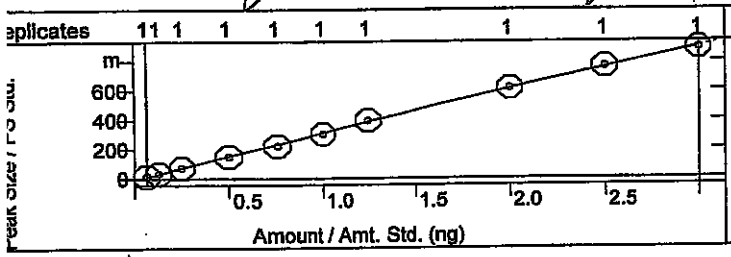
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



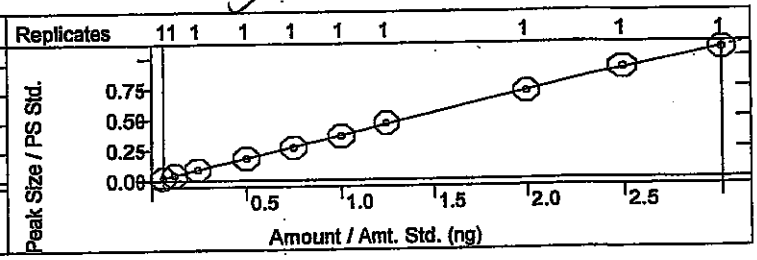
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



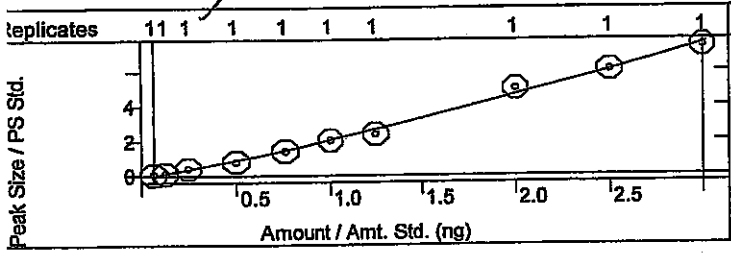
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



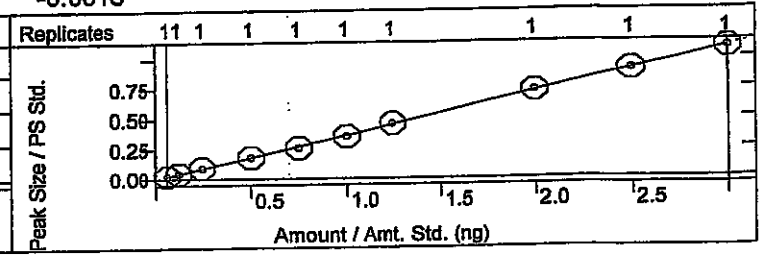
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



alibration Curves Report

V dlm 4/28/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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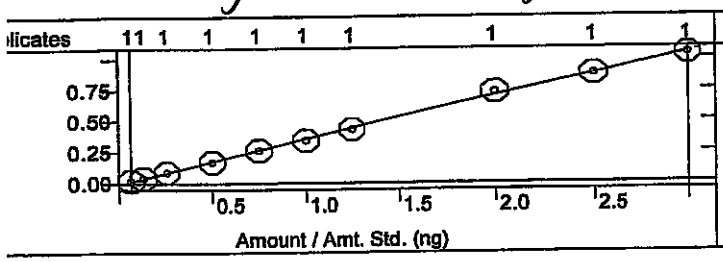
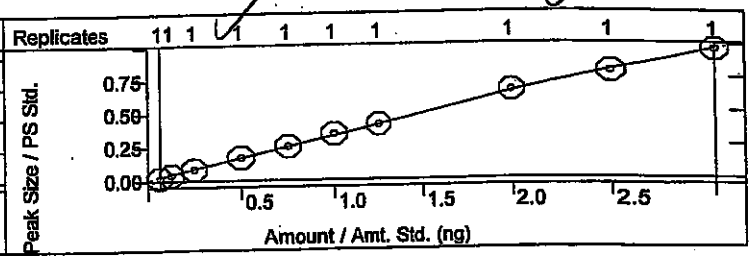
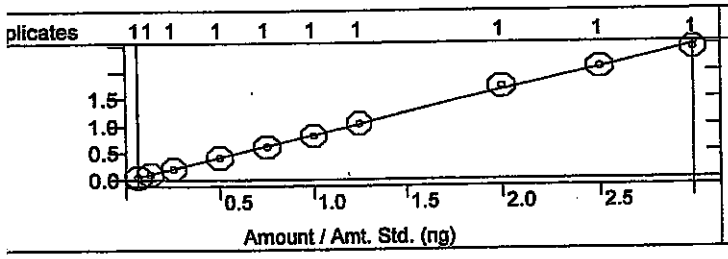
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



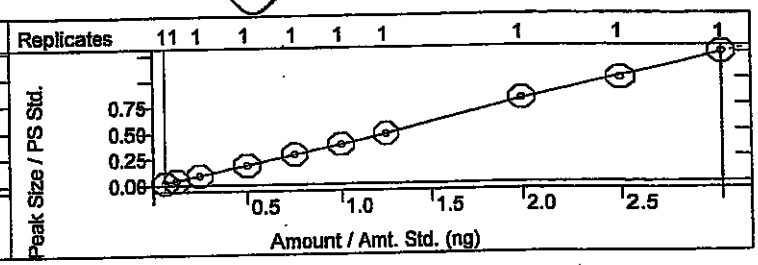
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



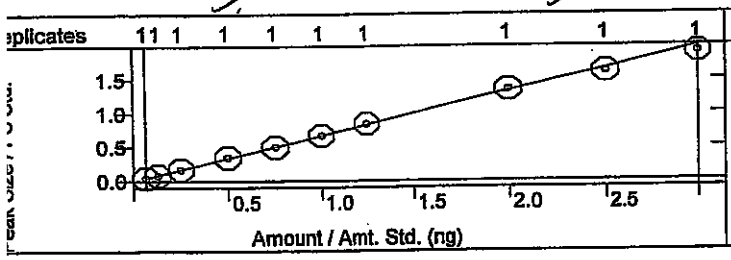
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



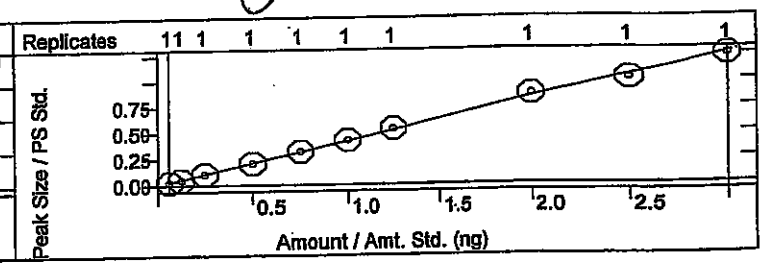
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



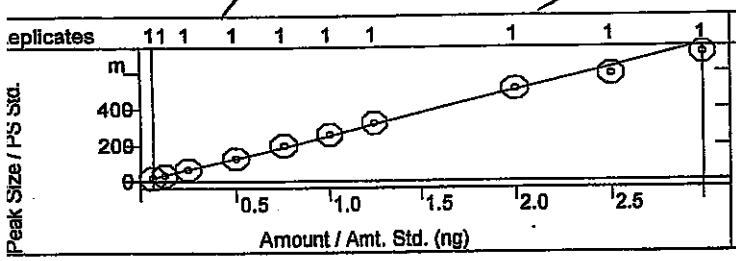
lexachlorobutadiene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



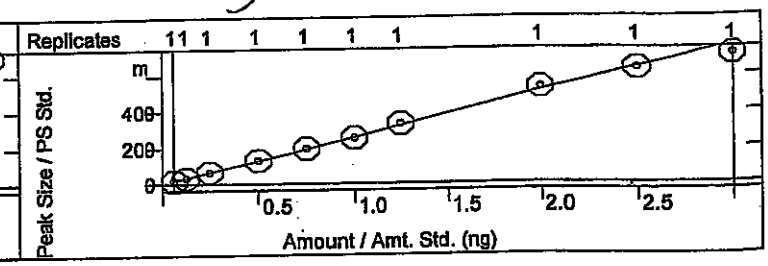
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.51936-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



alibration Curves Report

dlw 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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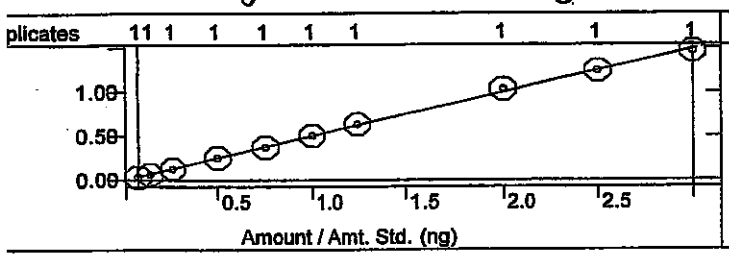
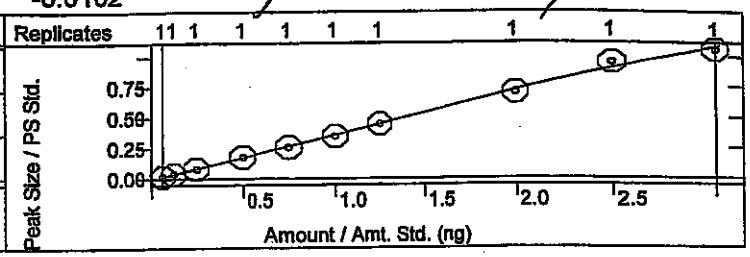
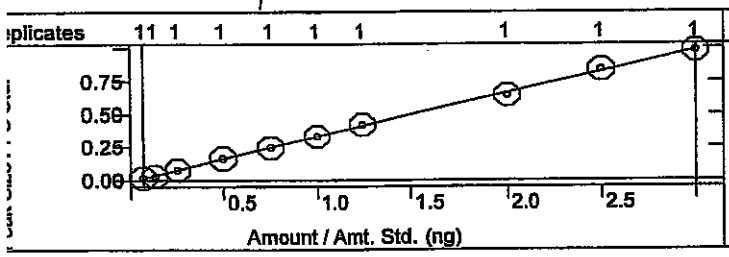
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



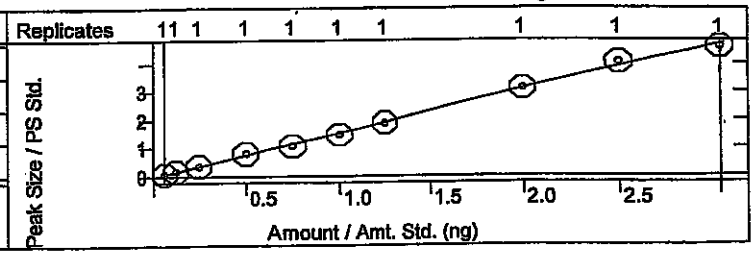
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



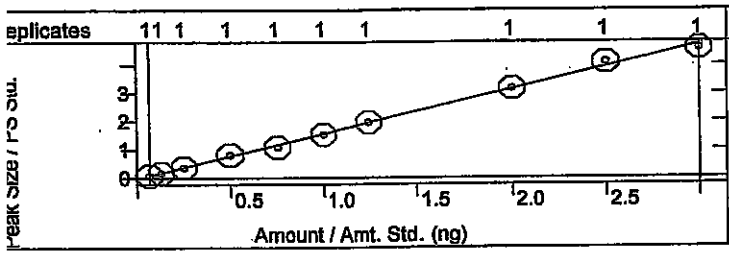
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



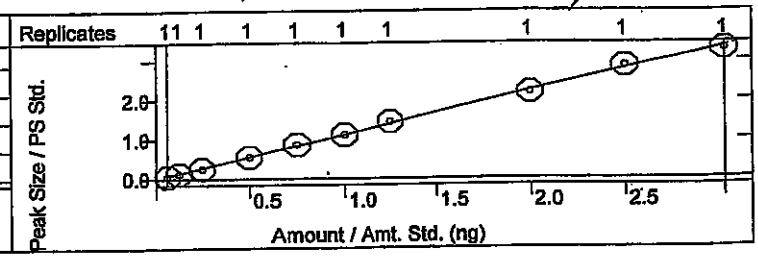
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



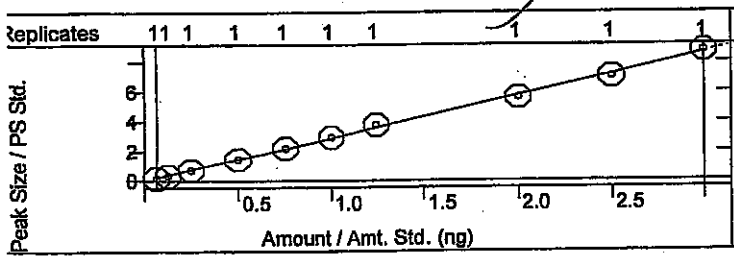
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



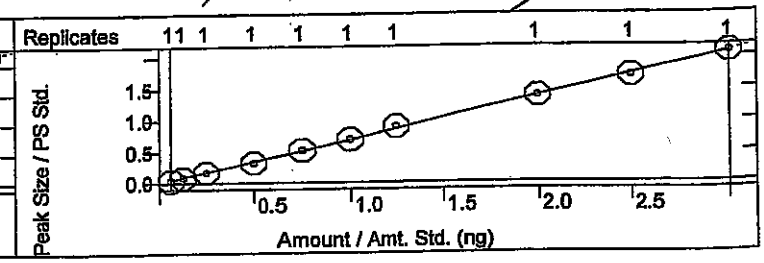
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



alibration Curves Report

✓ dan 4/28/14

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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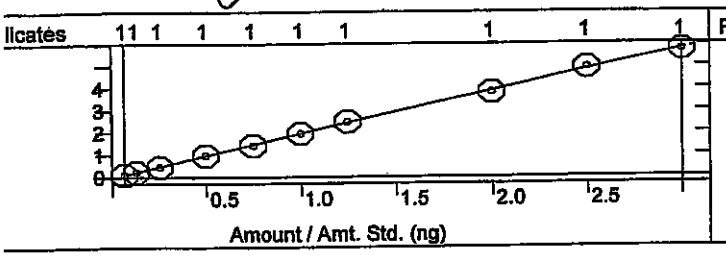
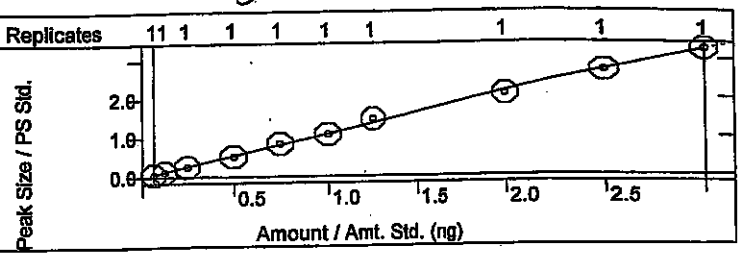
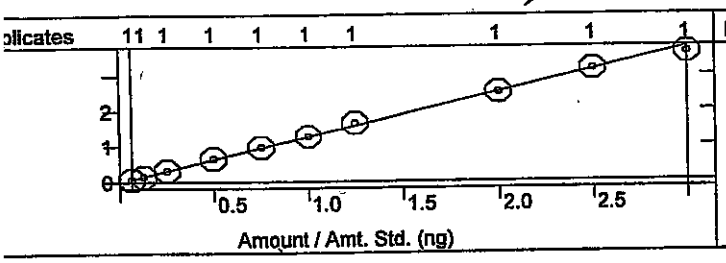
enaphthylene
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



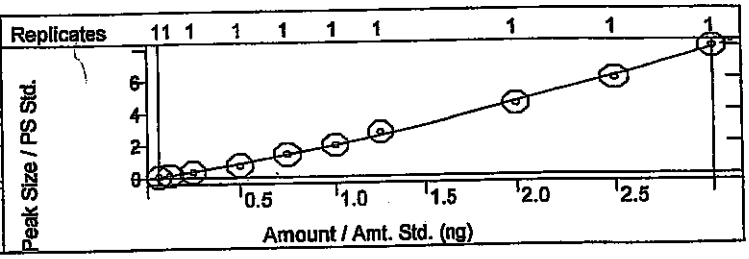
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



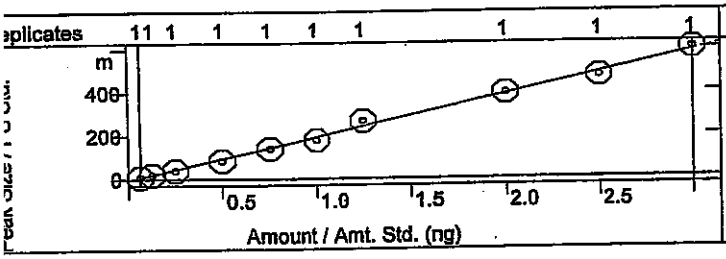
enaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



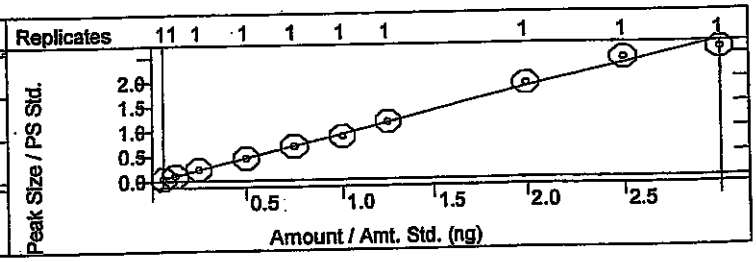
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



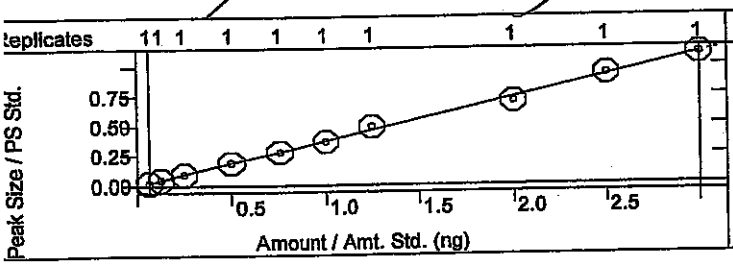
-Nitrophenol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
= +0.1978x -0.0058



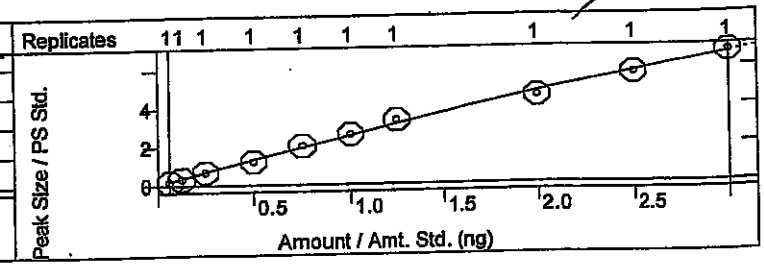
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



alibration Curves Report

J MM 7/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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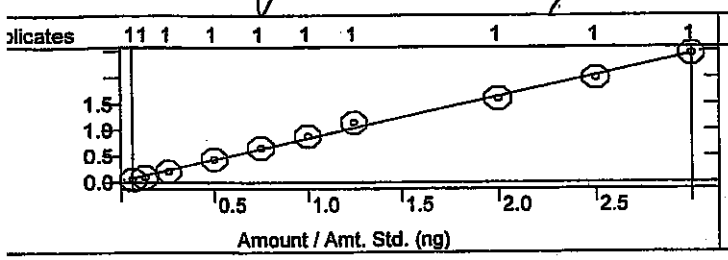
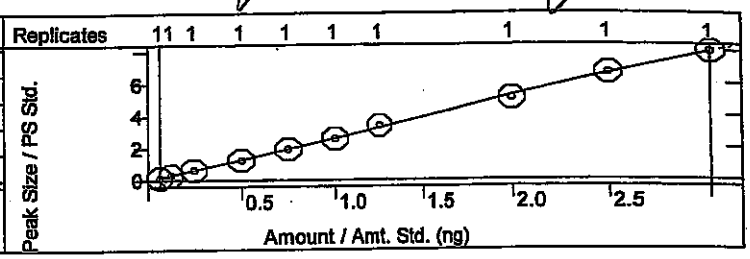
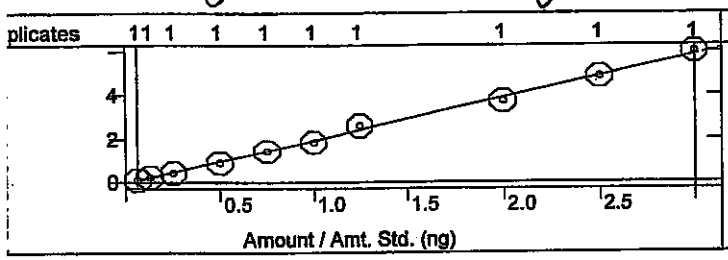
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



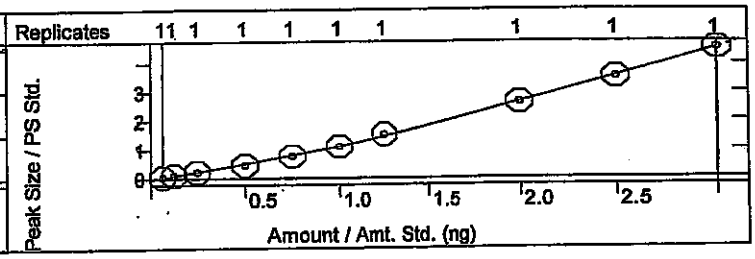
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



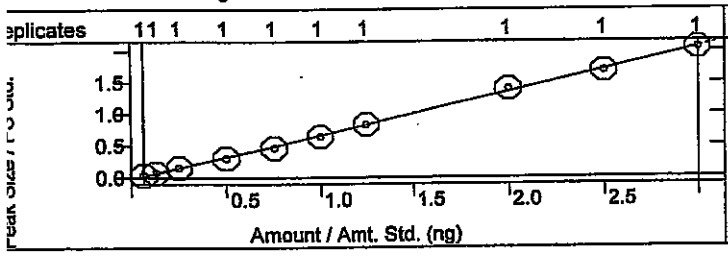
-Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



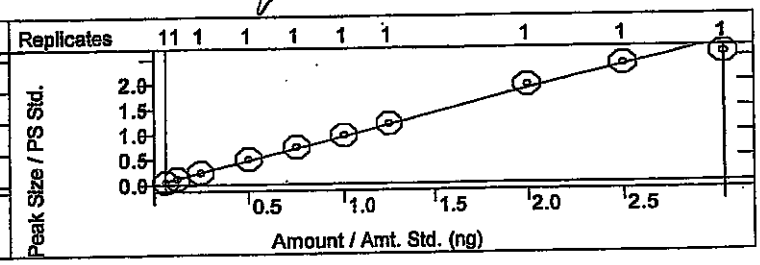
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



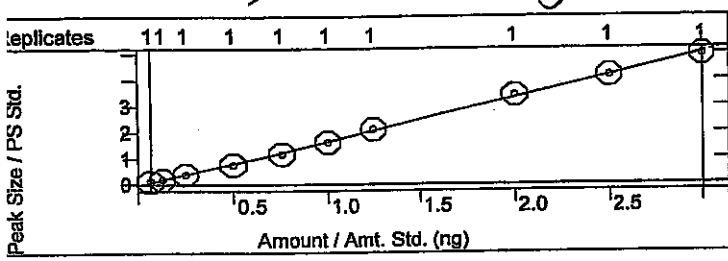
l-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



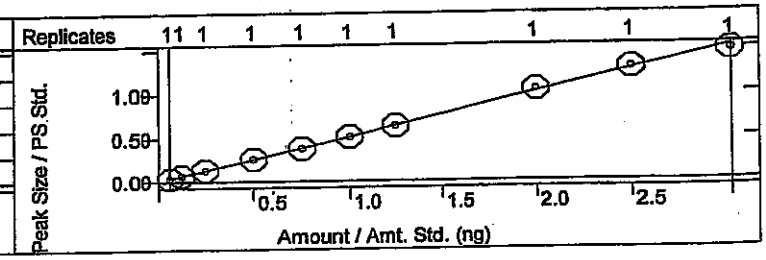
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



libration Curves Report

√ dm 4/28/14

hod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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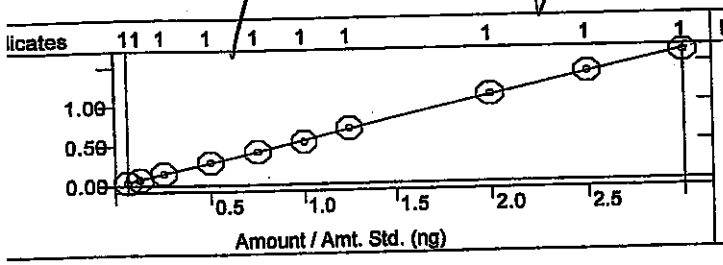
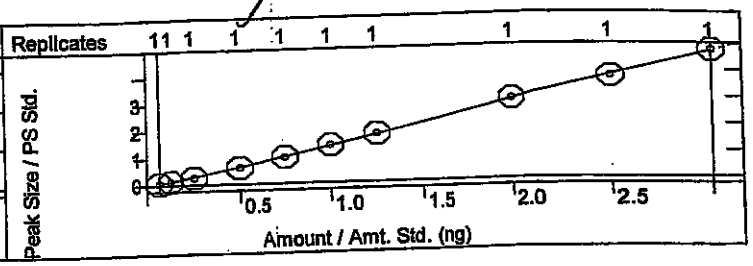
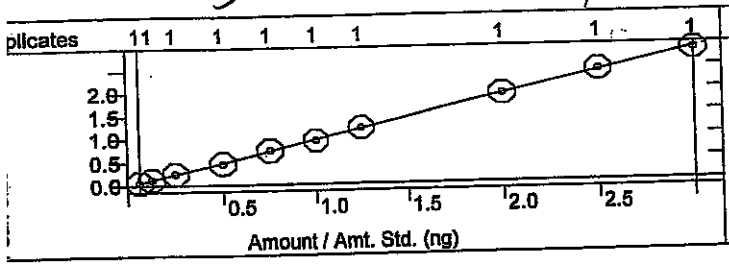
xachlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



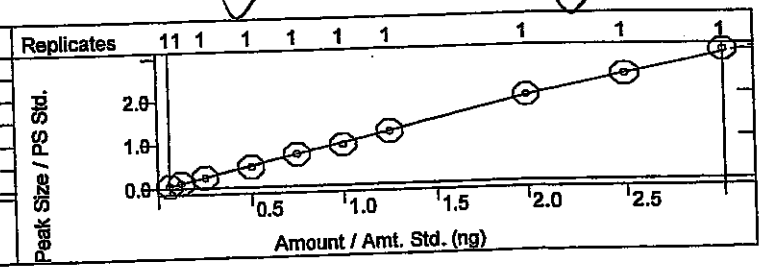
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



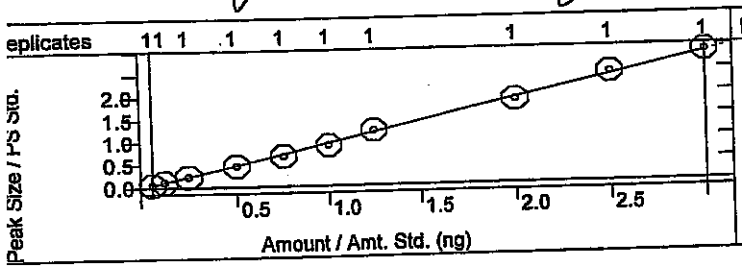
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



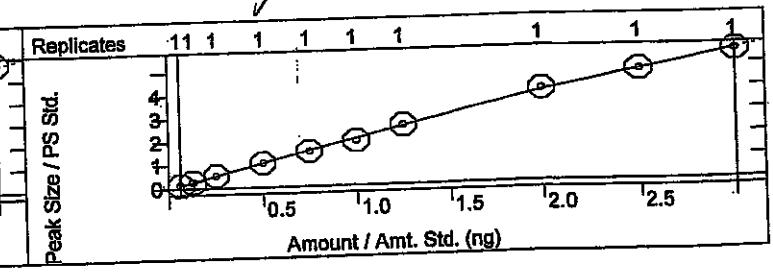
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



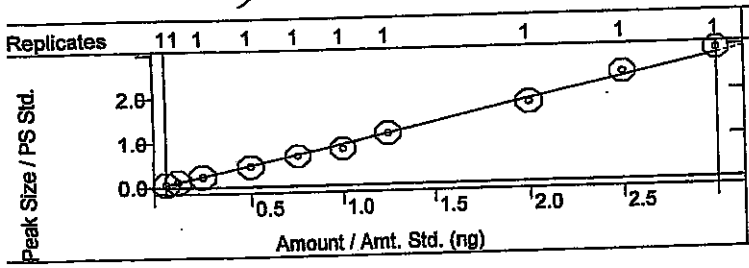
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



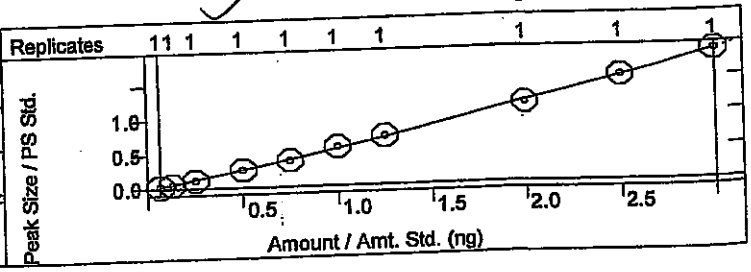
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094

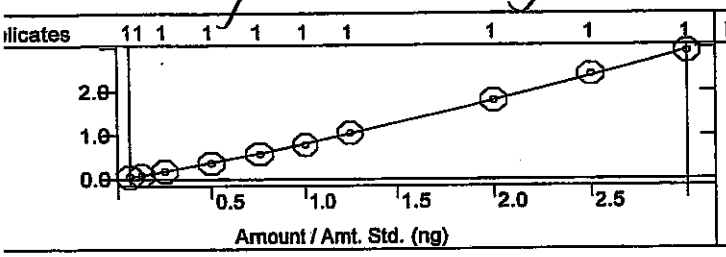


Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098

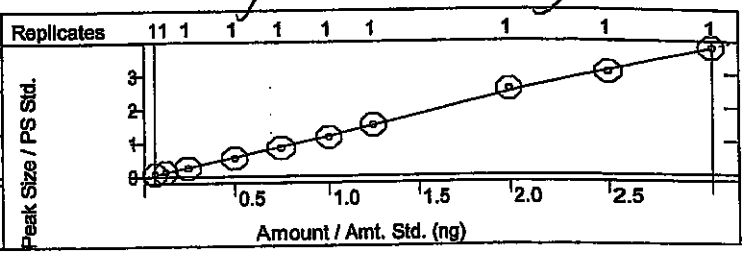


thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

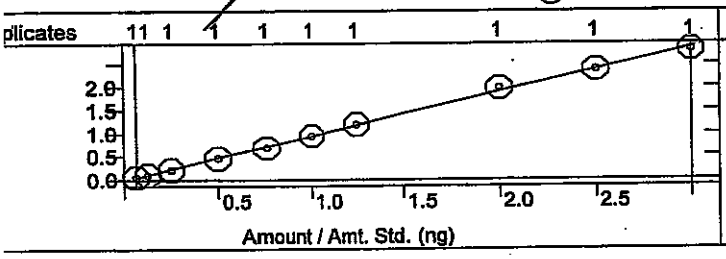
rene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



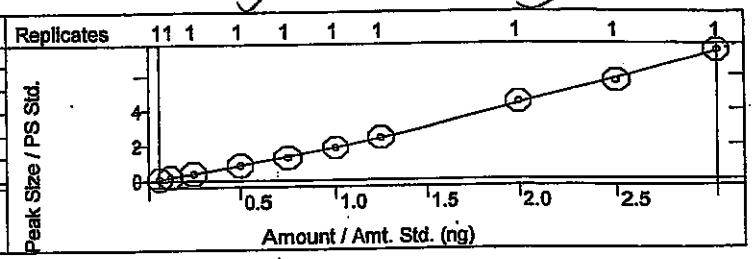
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



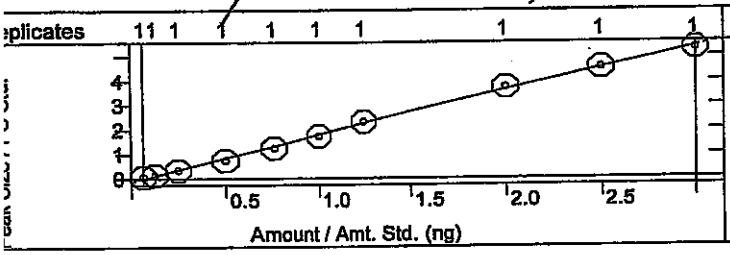
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



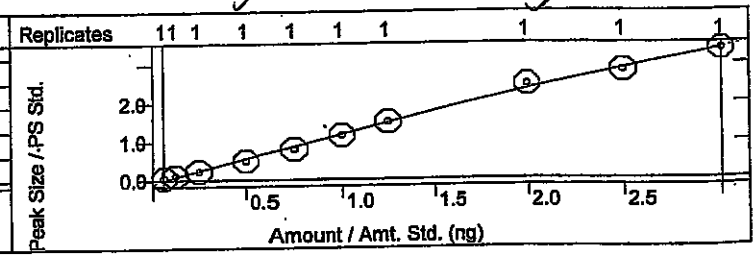
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



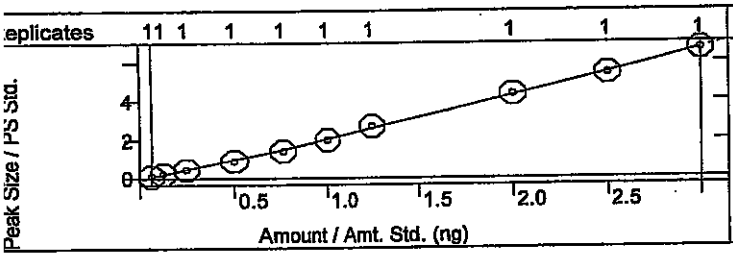
enz[a]anthracene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9868x -0.1374



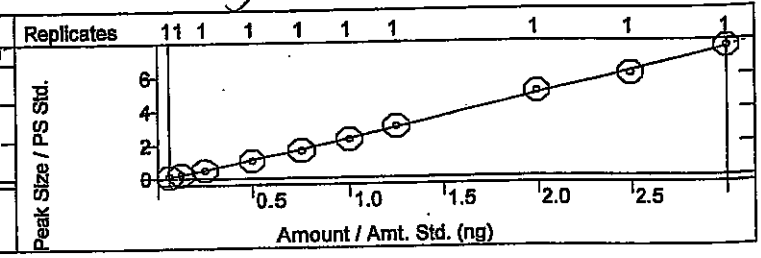
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



alibration Curves Report

/ dah 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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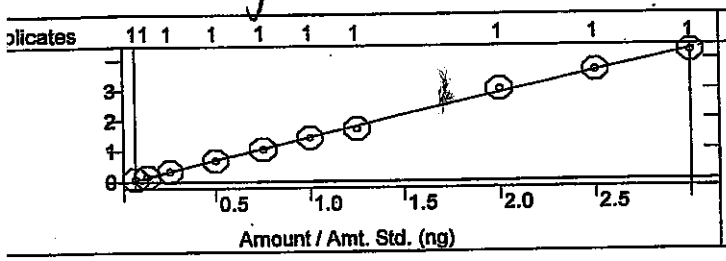
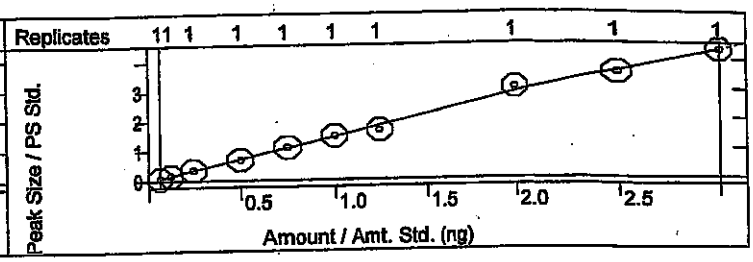
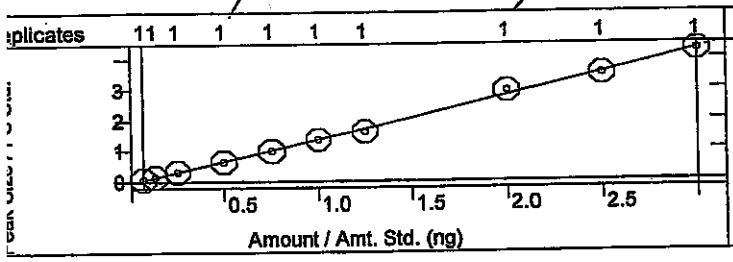
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



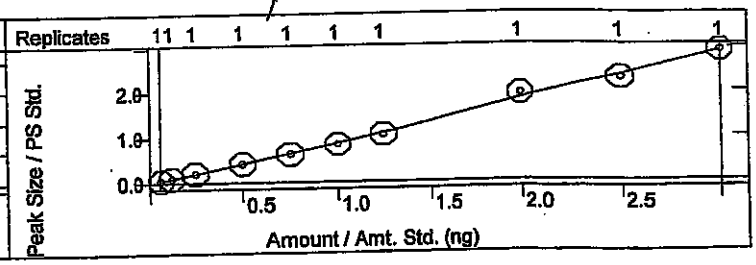
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



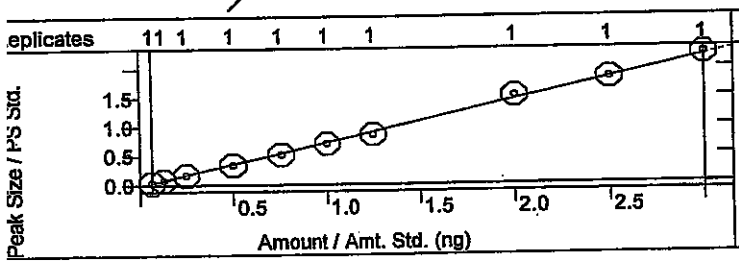
enzo[a]pyrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



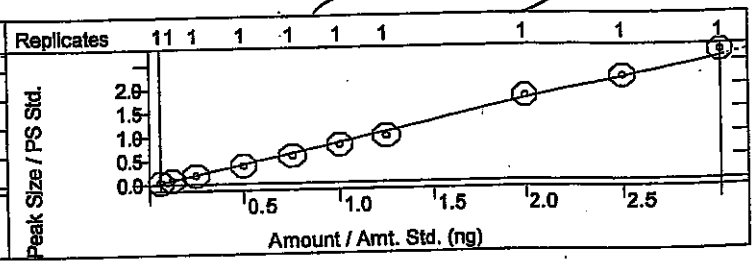
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

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JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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JC
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SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

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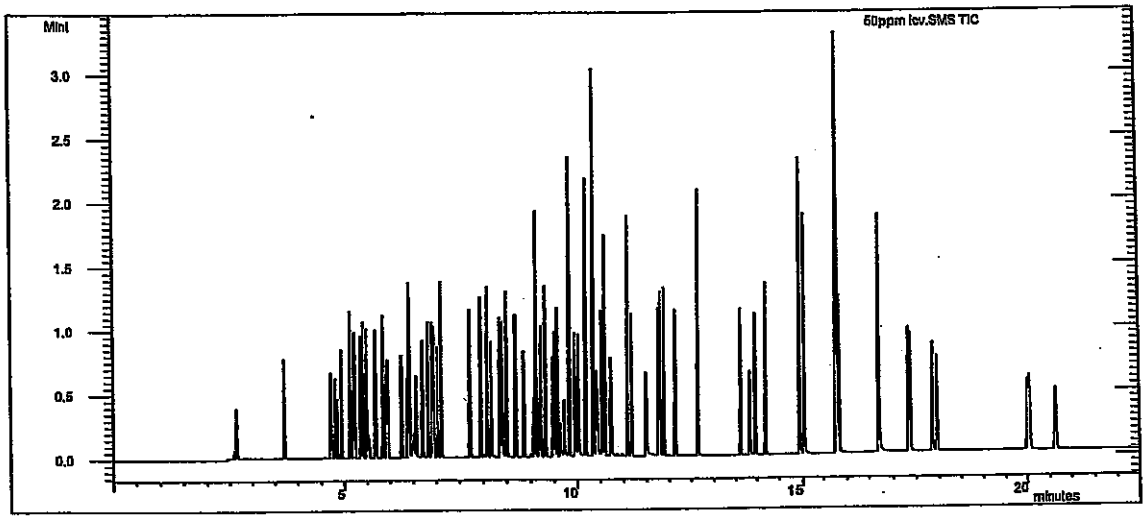
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-26-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius
Page 2 of 3

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****

Revision Log

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4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

8/7/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported:

R-4

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001 **Collection Date:** 7/1/2014 9:43:00 AM
Client Sample ID: FFOR-CF-0009 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	2.2 ✓	0.26		mg/Kg-dry	1	7/3/2014 10:34:06 AM	14031

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	6.0 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:35:31 AM	14031

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	4.6 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:36:51 AM	14031

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	1.2 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:38:16 AM	14031

Lab ID: 1407066-005 **Collection Date:** 7/1/2014 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	14 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:39:39 AM	14031

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006 **Collection Date:** 7/1/2014 11:51:00 AM
Client Sample ID: FFOR-CF-0014 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	42 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:46:02 AM	14031

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.4 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:47:26 AM	14031

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory

Analyst/Date: MD 7/2/14
QA'd/Date: 07/3/14

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:40:53 A**
Prep End Date:

Prep Batch ID: **14031** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14031		Soil			1.0315	0	0	50	50.000	7/2/2014	
LCS-14031		Soil			1.0279	0	0	50	50.000	7/2/2014	
1406D34-001A	Cell #8 #1	Soil			1.0362	0	0	50	50.000	7/2/2014	
1406D34-002A	Cell #8 #2	Soil			1.0388	0	0	50	50.000	7/2/2014	
1406D34-003A	Cell #8 #3	Soil			1.0054	0	0	50	50.000	7/2/2014	
1406D34-004A	Cell #8 #4	Soil			1.0284	0	0	50	50.000	7/2/2014	
1406D36-001A	Cell #9 #1	Soil			1.0138	0	0	50	50.000	7/2/2014	
1406D36-002A	Cell #9 #2	Soil			1.0324	0	0	50	50.000	7/2/2014	
1406D36-003A	Cell #9 #3	Soil			1.0314	0	0	50	50.000	7/2/2014	
1406D36-004A	Cell #9 #4	Soil			1.0061	0	0	50	50.000	7/2/2014	
1407003-001B	Koskie 16H	Aqueous			1.0375 MD 7/3/14	0	0	50	50.000	7/2/2014	
1407003-002B	Background 16H	Aqueous			1.0050	0	0	50	50.000	7/2/2014	
1407003-003B	Koskie 15H	Aqueous			1.0110	0	0	50	50.000	7/2/2014	
1407003-004B	Background 15H	Aqueous			1.0345	0	0	50	50.000	7/2/2014	
*1407019-002A	Sludge Pile Metals	Soil			1.0396	0	0	50	50.000	7/2/2014	
1407066-001A	FFOR-CF-0009	MeOH (Soil)			1.0406	0	0	50	50.000	7/2/2014	
1407066-002A	FFOR-CF-0010	MeOH (Soil)			1.0417	0	0	50	50.000	7/2/2014	
1407066-003A	FFOR-CF-0011	MeOH (Soil)			1.0445	0	0	50	50.000	7/2/2014	
1407066-004A	FFOR-CF-0012	MeOH (Soil)			1.0255	0	0	50	50.000	7/2/2014	
1407066-005A	FFOR-CF-0013	MeOH (Soil)			1.0162	0	0	50	50.000	7/2/2014	
1407066-006A	FFOR-CF-0014	MeOH (Soil)			1.0076	0	0	50	50.000	7/2/2014	
1407066-007A	FFOR-CF-0015	MeOH (Soil)			1.0274	0	0	50	50.000	7/2/2014	
1406D34-001AMS		Soil			1.0047	0	0	50	50.000	7/2/2014	
1406D34-001AMSD		Soil			1.0286	0	0	50	50.000	7/2/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

*Sample needs to be redigested due to incomplete method digestion MD 7/3/14

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:40:53 A**
Prep End Date:

Prep Batch ID: **14031** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Chemical	4379	Hydrogen Peroxide, 30%	13707	Container-01 of 01	0	mL
Chemical	4565	Hydrochloric Acid, Trace Metal Grade	14593	Container-05 of 06	0	mL
Chemical	4619	Boiling Stones, Ultra-Pure PTFE	14783	Container-01 of 01	0	mL
Chemical	4628	Nitric Acid Trace Metal Grade	14829	Container-01 of 06	0	mL
Chemical	4651	EnvExp Digestion Tubes 50mL	14932	Container-04 of 05	0	mL
Chemical	4679	FilterMate 2um Teflon-faced PP Filter	15014	Container-04 of 06	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST6010-14139	VHG Custom Std 801 EXP 3/31/15	LCS MS MSD	25250	Container-01 of 02	500	µL
ST6010-14161	VHG Custom Std 1101 EXP 4/30/15	LCS MS MSD	25338	Container-02 of 02	500	µL

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		14031		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	46051	Tubes 4/5		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	46028	HNO_3 1/6		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	45165	HCl 5/6		HCl /		HCl /
	Filters /		Filters /	4879	Filters 4/6		Filters /		Filters /
				4379	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4069	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 -	Exp:	ST6010 - 14139	Exp: 3/31/15 MD		Exp:
ST6020 -	Exp:	ST6010 - 14161	Exp: 4/30/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Gustavo	Digestion Block:
Position: G12	Position:
Therm ID: DBT-24	Therm ID:
Calibration Exp: 9/27/15	Calibration Exp:
Temp: 94.8 °C	Temp: °C
CF: -0 °C	CF: °C
Corr. Temp: = 94.8 °C	Corr. Temp: = °C
Analyst: MD	Analyst:
Date/Time: 7/2/14 11:32	Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P30 Wt. DI (g): 0.5033 Rm Temp (°C): 21.9 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 7/2/14 QA'd/Date: JR 7/3/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 19675

ICP-OES Analysis Summary

Instrument: 1515

Data Imported By: EL 7/5/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 070314 B14031 **Prep Batch ID:** 14031

Calibration

	Standard ID
ST1	ST6010- 14289
ST2	ST6010- 14260
ST3 (CCV)	ST6010- 14293
ST4	ST6010- 14262

	Standard ID
ST5	ST6010- 14263
ST6	ST6010-
ST7 (CCV CAT)	ST6010- EL 7/3/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14292
ICV CAT	ST6010- N/A
ICS ELEM	ST6010- 14294
ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14288

2% Nitric Acid

Reagent ID: 1354

LCS/MS/MSD

☒ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 100µl Wt DI (g): 0.1014 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: P30 Spike Volume: 500µl Wt DI (g): 0.5033 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: P35 Spike Volume: 1ml Wt DI (g): 1.0054 Rm Temp (°C): 21.2 Analyst: EL

Pipette No: _____ Spike Volume: _____ Wt DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
FE	14061D06.001A 14206	3.2351	0.9797g	60mL	20x	3302.133	mg/kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result _____ mg/L

Analyst/Date: EL 7/3/14 Qa'd by/Date: 7/8/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ____ and ____.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	101	MB-14031	Analyzed
17	102	LCS-14031	Analyzed
18	103	MB-14032	Analyzed
19	104	LCS-14032	Analyzed
20	101	MB-14031	Analyzed
21	105	1407066-001A	Samp Limit Failed
22	106	1407066-002A	Samp Limit Failed
23	107	1407066-003A	Samp Limit Failed
24	108	1407066-004A	Samp Limit Failed
25	109	1407066-005A	Samp Limit Failed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	110	1407066-006A	Samp Limit Failed
30	111	1407066-007A	IS Check Failed
31	112	1406C85-001A	Analyzed
32	113	1406C85-001AMS	Analyzed
33	114	1406C85-001AMSD	Analyzed
34	115	1406C85-001APS	Analyzed
35	116	1406C96-001A	Samp Limit Failed
36	117	1406C96-001AMS	Analyzed
37	118	1406C96-001AMSD	Analyzed
38	119	1406C96-001APS	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	120	1406D02-001A	Samp Limit Failed
43	121	1406D02-001AMS	Analyzed
44	122	1406D02-001AMSD	Analyzed
45	123	1406D02-001APS	Analyzed
46	124	1406D02-001A 2X	Samp Limit Failed
47	125	1406D02-001AMS 2X	Analyzed
48	126	1406D02-001AMSD 2X	Analyzed
49	127	1406D02-001APS 2X	Analyzed
50	128	1406D02-001A 20X	Analyzed
51	129	1406D02-002A 5X	Analyzed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	Analyzed
55	130	1406D02-002A 10X	Analyzed

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	131		1406D02-003A2X	Samp Limit Failed
57	132		1406D02-003A 20X	Analyzed
58	133		1406D02-004A 5X	Samp Limit Failed
59	134		1406D02-004A 10X	Analyzed
60	135		1406D03-001A 5X	Analyzed
61	136		1406D03-001A 20X	Analyzed
62	137		1406D03-002A 20X	Analyzed
63	138		1406D03-003A 5X	Analyzed
64	139		1406D03-003A 20X	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	Analyzed
68	140		1406D03-004A 20X	Samp Limit Failed
69	141		1406D16-001A 50X	Samp Limit Failed
70	142		1406D16-002A 50X	Samp Limit Failed
71	143		1406D16-003A 50X	Samp Limit Failed
72	144		1406D16-004A 50X	Analyzed
73	145		1406D30-001A	Analyzed
74	146		1406D30-001AMS	Analyzed
75	147		1406D30-001AMSD	Analyzed
76	148		1406D30-001APS	Analyzed
77	149		1406D30-001A 20X	Analyzed
78	2	QC	CCV	QC Passed
79	1	QC	CCB	QC Passed
80	3	QC	CCV CAT	Analyzed
81	150		1406D30-002A 20X	Analyzed
82	151		1406D30-003A 20X	Analyzed
83	152		1406D30-004A 20X	Analyzed
84	153		1406D32-001A 20X	Analyzed
85	154		1406D32-002A 20X	Analyzed
86	155		1406D32-003A 20X	Analyzed
87	156		1406D32-004A 20X	Analyzed
88	157		1406D34-001A	Samp Limit Failed
89	158		1406D34-001AMS	Analyzed
90	159		1406D34-001AMSD	Analyzed
91	2	QC	CCV	QC Passed
92	1	QC	CCB	QC Passed
93	3	QC	CCV CAT	Analyzed
94	160		1406D34-001APS	Analyzed
95	301		1406D34-002A	Samp Limit Failed
96	302		1406D34-003A	Samp Limit Failed
97	303		1406D34-004A	Samp Limit Failed
98	304		1406D36-001A	Samp Limit Failed
99	305		1406D36-002A	Samp Limit Failed
100	306		1406D36-003A	Samp Limit Failed
101	307		1406D36-004A	Samp Limit Failed
102	308		1406D72-001A 2X	Analyzed
103	309		1406D76-001A 2X	Analyzed
104	2	QC	CCV	QC Passed
105	1	QC	CCB	QC Passed
106	3	QC	CCV CAT	Analyzed
107	310		1406D79-001A 2X	Analyzed
108	311		1406D34-001A 50x	Analyzed
109	312		1406D34-002A 20x	Analyzed
110	313		1406D34-003A 50x	Analyzed

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
111	314		1406D34-004A 20x	Analyzed
112	315		1406D36-001A 20x	Analyzed
113	316		1406D36-002A 20x	Analyzed
114	317		1406D36-003A 20x	Analyzed
115	318		1406D36-004A 20x	Analyzed
116	1		blank	Analyzed
117	2	QC	CCV	QC Passed
118	1	QC	CCB	QC Passed
119	3	QC	CCV CAT	Analyzed
120	201		1407003-001B	IS Check Failed
121	202		1407003-001B 2X	Analyzed
122	203		1407003-002B	Analyzed
123	204		1407003-002B 2X	Analyzed
124	205		1407003-003B	IS Check Failed
125	206		1407003-003B 2X	Analyzed
126	207		1407003-004B	IS Check Failed
127	208		1407003-004B 2X	Analyzed
128	209		1406C94-001B 2X	Samp Limit Failed
129	210		1406C94-001B 5X	Analyzed
130	2	QC	CCV	QC Passed
131	1	QC	CCB	QC Passed
132	3	QC	CCV CAT	Analyzed
133	211		1406C94-002B 2X	Samp Limit Failed
134	212		1406C94-002B 5X	Analyzed
135	213		1406C94-003B 2X	Analyzed
136	214		1406C94-003B 5X	Analyzed
137	215		1406C94-004B 2X	Samp Limit Failed
138	216		1406C94-004B 5X	Samp Limit Failed
139	217		1406C94-005B 2X	Samp Limit Failed
140	218		1406C94-005B 5X	Analyzed
141	219		1406C94-006B 2X	Samp Limit Failed
142	220		1406C94-006B 5X	Samp Limit Failed
143	2	QC	CCV	QC Passed
144	1	QC	CCB	QC Passed
145	3	QC	CCV CAT	Analyzed
146	221		1406C94-007B 2X	Samp Limit Failed
147	222		1406C94-007B 5X	Samp Limit Failed
148	223		1406C94-009B 2X	Analyzed
149	224		1406C94-009B 5X	Analyzed
150	225		1406C94-010B 2X	Samp Limit Failed
151	226		1406C94-010B 5X	Samp Limit Failed
152	227		1406C94-011B 2X	Samp Limit Failed
153	228		1406C94-011B 5X	Samp Limit Failed
154	229		1406C94-012B 2X	Samp Limit Failed
155	230		1406C94-012B 5X	Samp Limit Failed
156	2	QC	CCV	QC Passed
157	1	QC	CCB	QC Passed
158	3	QC	CCV CAT	Analyzed
159	231		1406C94-013B 2X	Analyzed
160	232		1406C94-013B 5X	Analyzed
161	233		1406C94-014B 2X	Samp Limit Failed
162	234		1406C94-014BMS 2X	Samp Limit Failed
163	235		1406C94-014BMSD 2X	Samp Limit Failed
164	236		1406C94-014B 5X	Samp Limit Failed
165	237		1406C94-014BMS 5X	Samp Limit Failed

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
166	238		1406C94-014BMSD 5X	Samp Limit Failed
167	3		BLANK	
168	3		BLANK	
169	2	QC	CCV	QC Passed
170	1	QC	CCB	QC Passed
171	3	QC	CCV CAT	
172	239		1406987-001B	IS Check Failed
173	240		1406987-001BMS	IS Check Failed
174	241		1406987-001BMSD	IS Check Failed
175	3		BLANK	Analyzed
176	3		BLANK	Analyzed
177	242		1406987-001B 2X	IS Check Failed
178	243		1406987-001BMS 2X	IS Check Failed
179	244		1406987-001BMSD 2X	IS Check Failed
180	245		1406987-001BPS 2X	IS Check Failed
181	3		BLANK	
182	2	QC	CCV	QC Passed
183	1	QC	CCB	QC Passed
184	3	QC	CCV CAT	
185	7	QC	DI RINSE	QC Passed

Sample Information Detail Report
Document Name: 070314 B14031

File Description
Hall Design

Parameters Common to All Samples

Batch ID	070314 B14031
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14031	MBLK
2	102	LCS-14031	LCS
3	103	MB-14032	MBLK
4	104	LCS-14032	LCS
5	105	1407066-001A	SAMP
6	106	1407066-002A	SAMP
7	107	1407066-003A	SAMP
8	108	1407066-004A	SAMP
9	109	1407066-005A	SAMP
10	110	1407066-006A	SAMP
11	111	1407066-007A	SAMP
12	112	1406C85-001A	SAMP
13	113	1406C85-001AMS	MS
14	114	1406C85-001AMSD	MSD
15	115	1406C85-001APS	PS
16	116	1406C96-001A	SAMP
17	117	1406C96-001AMS	MS
18	118	1406C96-001AMSD	MSD
19	119	1406C96-001APS	PS
20	120	1406D02-001A	SAMP
21	121	1406D02-001AMS	MS
22	122	1406D02-001AMSD	MSD
23	123	1406D02-001APS	PS
24	124	1406D02-001A 2X	SAMP
25	125	1406D02-001AMS 2X	MS
26	126	1406D02-001AMSD 2X	MSD
27	127	1406D02-001APS 2X	PS
28	128	1406D02-001A 20X	SAMP
29	129	1406D02-002A 5X	SAMP
30	130	1406D02-002A 10X	SAMP
31	131	1406D02-003A 2X	SAMP
32	132	1406D02-003A 20X	SAMP
33	133	1406D02-004A 5X	SAMP
34	134	1406D02-004A 10X	SAMP
35	135	1406D03-001A 5X	SAMP
36	136	1406D03-001A 20X	SAMP
37	137	1406D03-002A 20X	SAMP
38	138	1406D03-003A 5X	SAMP
39	139	1406D03-003A 20X	SAMP
40	140	1406D03-004A 20X	SAMP
41	141	1406D16-001A 50X	SAMP
42	142	1406D16-002A 50X	SAMP
43	143	1406D16-003A 50X	SAMP
44	144	1406D16-004A 50X	SAMP
45	145	1406D30-001A	SAMP
46	146	1406D30-001AMS	MS
47	147	1406D30-001AMSD	MSD
48	148	1406D30-001APS	PS
49	149	1406D30-001A 20X	SAMP
50	150	1406D30-002A 20X	SAMP
51	151	1406D30-003A 20X	SAMP
52	152	1406D30-004A 20X	SAMP
53	153	1406D32-001A 20X	SAMP
54	154	1406D32-002A 20X	SAMP

55	155	1406D32-003A 20X	SAMP
56	156	1406D32-004A 20X	SAMP
57	157	1406D34-001A	SAMP
58	158	1406D34-001AMS	MS
59	159	1406D34-001AMSD	MSD
60	160	1406D34-001APS	PS
61	301	1406D34-002A	SAMP
62	302	1406D34-003A	SAMP
63	303	1406D34-004A	SAMP
64	304	1406D36-001A	SAMP
65	305	1406D36-002A	SAMP
66	306	1406D36-003A	SAMP
67	307	1406D36-004A	SAMP
68	308	1406D72-001A 2X	SAMP
69	309	1406D76-001A 2X	SAMP
70	310	1406D79-001A 2X	SAMP
72	311	1406D34-001A 50x	SAMP
73	312	1406D34-002A 20x	SAMP
74	313	1406D34-003A 50x	SAMP
75	314	1406D34-004A 20x	SAMP
76	315	1406D36-001A 20x	SAMP
77	316	1406D36-002A 20x	SAMP
78	317	1406D36-003A 20x	SAMP
79	318	1406D36-004A 20x	SAMP
80	1	blank	
82	201	1407003-001B	SAMP
83	202	1407003-001B 2X	SAMP
84	203	1407003-002B	SAMP
85	204	1407003-002B 2X	SAMP
86	205	1407003-003B	SAMP
87	206	1407003-003B 2X	SAMP
88	207	1407003-004B	SAMP
89	208	1407003-004B 2X	SAMP
90	209	1406C94-001B 2X	SAMP
91	210	1406C94-001B 5X	SAMP
92	211	1406C94-002B 2X	SAMP
93	212	1406C94-002B 5X	SAMP
94	213	1406C94-003B 2X	SAMP
95	214	1406C94-003B 5X	SAMP
96	215	1406C94-004B 2X	SAMP
97	216	1406C94-004B 5X	SAMP
98	217	1406C94-005B 2X	SAMP
99	218	1406C94-005B 5X	SAMP
100	219	1406C94-006B 2X	SAMP
101	220	1406C94-006B 5X	SAMP
102	221	1406C94-007B 2X	SAMP
103	222	1406C94-007B 5X	SAMP
104	223	1406C94-009B 2X	SAMP
105	224	1406C94-009B 5X	SAMP
106	225	1406C94-010B 2X	SAMP
107	226	1406C94-010B 5X	SAMP
108	227	1406C94-011B 2X	SAMP
109	228	1406C94-011B 5X	SAMP
110	229	1406C94-012B 2X	SAMP
111	230	1406C94-012B 5X	SAMP
112	231	1406C94-013B 2X	SAMP
113	232	1406C94-013B 5X	SAMP
114	233	1406C94-014B 2X	SAMP
115	234	1406C94-014BMS 2X	SAMP
116	235	1406C94-014BMSD 2X	SAMP
117	236	1406C94-014B 5X	SAMP
118	237	1406C94-014BMS 5X	SAMP
119	238	1406C94-014BMSD 5X	SAMP
120	3	BLANK	
121	3	BLANK	
122	239	1406987-001B	SAMP
123	240	1406987-001BMS	MS

124	241	1406987-001BMSD	MSD
125	3	BLANK	
126	3	BLANK	
127	242	1406987-001B 2X	SAMP
128	243	1406987-001BMS 2X	MS
129	244	1406987-001BMSD 2X	MSD
130	245	1406987-001BPS 2X	PS
131	3	BLANK	

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL	Recovery 1 of 3	
5	METALS_SOIL		
6	METALS_SOIL		
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL		
13	METALS_SOIL	Recovery 1 of 12	
14	METALS_SOIL	Recovery 1 of 12	
15	METALS_SOIL	Recovery 1 of 12	
16	METALS_SOIL		
17	METALS_SOIL	Recovery 1 of 16	
18	METALS_SOIL	Recovery 1 of 16	
19	METALS_SOIL	Recovery 1 of 16	
20	METALS_SOIL		
21	METALS_SOIL	Recovery 1 of 20	
22	METALS_SOIL	Recovery 1 of 20	
23	METALS_SOIL	Recovery 1 of 20	
24	METALS_SOIL		
25	METALS_SOIL	Recovery 1 of 24	
26	METALS_SOIL	Recovery 1 of 24	
27	METALS_SOIL	Recovery 1 of 24	
28	METALS_SOIL		
29	METALS_SOIL		
30	METALS_SOIL		
31	METALS_SOIL		
32	METALS_SOIL		
33	METALS_SOIL		
34	METALS_SOIL		
35	METALS_SOIL		
36	METALS_SOIL		
37	METALS_SOIL		
38	METALS_SOIL		
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41	METALS_SOIL		
42	METALS_SOIL		
43	METALS_SOIL		
44	METALS_SOIL		
45	METALS_SOIL		
46	METALS_SOIL	Recovery 1 of 45	
47	METALS_SOIL	Recovery 1 of 45	
48	METALS_SOIL	Recovery 1 of 45	
49	METALS_SOIL		
50	METALS_SOIL		
51	METALS_SOIL		
52	METALS_SOIL		
53	METALS_SOIL		
54	METALS_SOIL		
55	METALS_SOIL		
56	METALS_SOIL		
57	METALS_SOIL		

58	METALS	SOIL	Recovery 1 of 57
59	METALS	SOIL	Recovery 1 of 57
60	METALS	SOIL	Recovery 1 of 57
61	METALS	SOIL	
62	METALS	SOIL	
63	METALS	SOIL	
64	METALS	SOIL	
65	METALS	SOIL	
66	METALS	SOIL	
67	METALS	SOIL	
68	METALS	SOIL	
69	METALS	SOIL	
70	METALS	SOIL	
72	METALS	SOIL	
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90	METALS	SOIL	
91	METALS	SOIL	
92	METALS	SOIL	
93	METALS	SOIL	
94	METALS	SOIL	
95	METALS	SOIL	
96	METALS	SOIL	
97	METALS	SOIL	
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100	METALS	SOIL	
101	METALS	SOIL	
102	METALS	SOIL	
103	METALS	SOIL	
104	METALS	SOIL	
105	METALS	SOIL	
106	METALS	SOIL	
107	METALS	SOIL	
108	METALS	SOIL	
109	METALS	SOIL	
110	METALS	SOIL	
111	METALS	SOIL	
112	METALS	SOIL	
113	METALS	SOIL	
114	METALS	SOIL	
115	METALS	SOIL	
116	METALS	SOIL	
117	METALS	SOIL	
118	METALS	SOIL	
119	METALS	SOIL	
120			
121			
122	METALS	SOIL	
123	METALS	SOIL	Recovery 1 of 122
124	METALS	SOIL	Recovery 1 of 122
125			
126			

127	METALS_SOIL	
128	METALS_SOIL	Recovery 1 of 127
129	METALS_SOIL	Recovery 1 of 127
130	METALS_SOIL	Recovery 1 of 127
131		

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
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130
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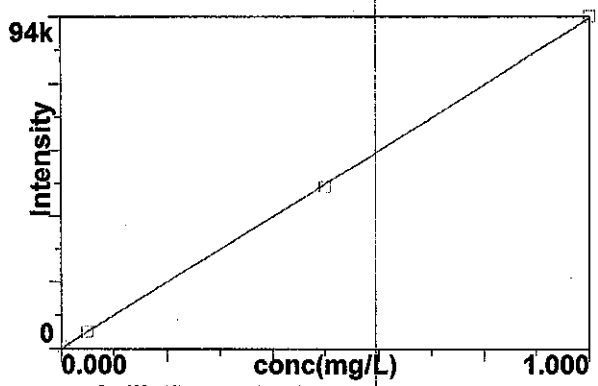
Ag 328.068



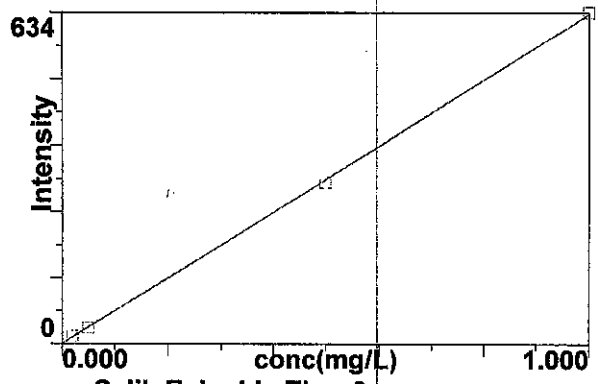
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999955

1

Al 396.153

2

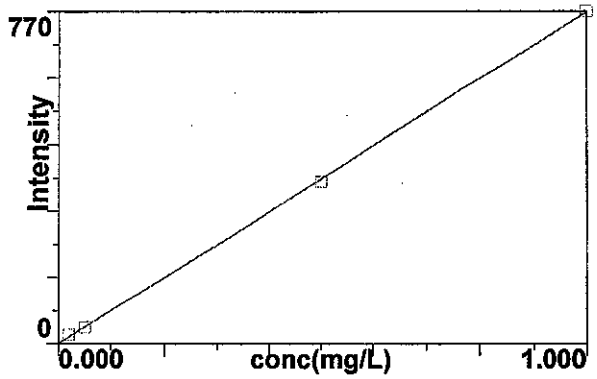
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999952

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999948

4

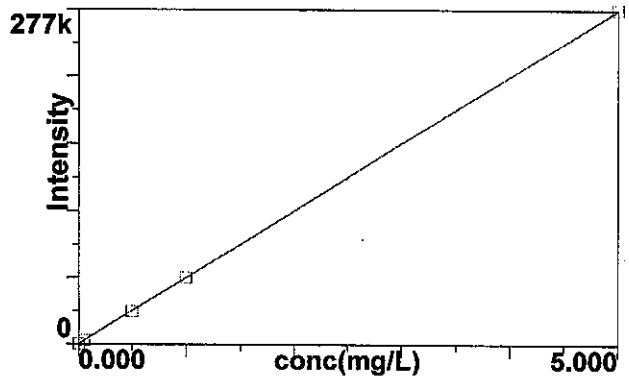
B 249.772

5

B 249.677

6

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

7

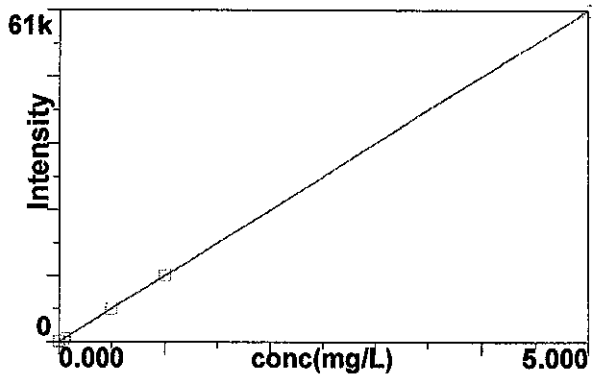
Be 313.107

8

Ca 317.933

9

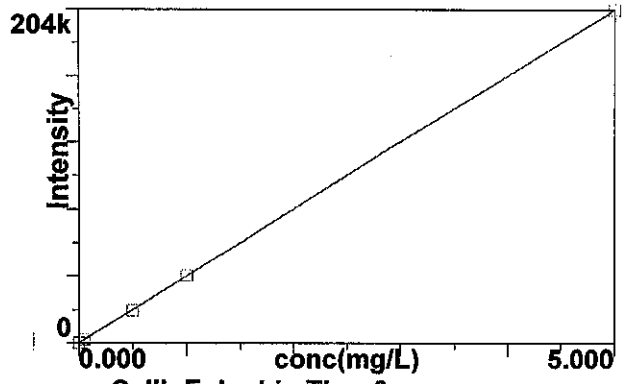
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

10

Cd 226.502



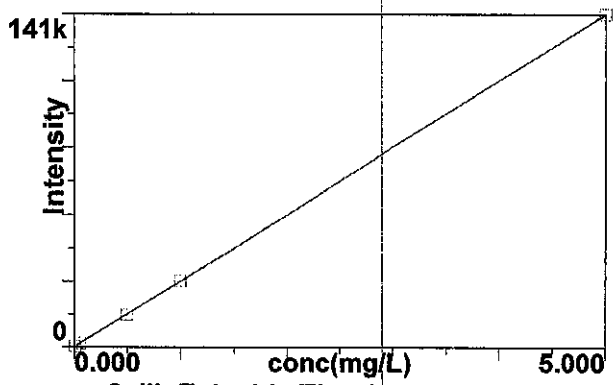
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

11

Co 228.616

12

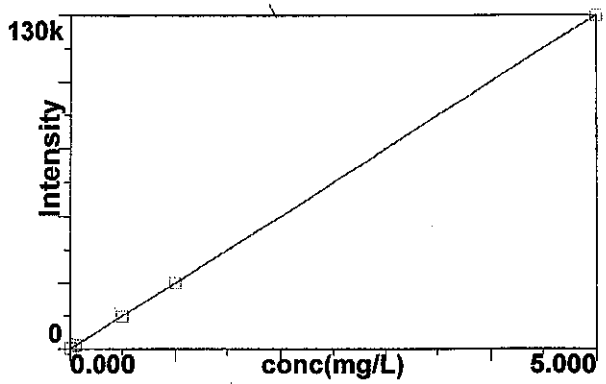
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

13

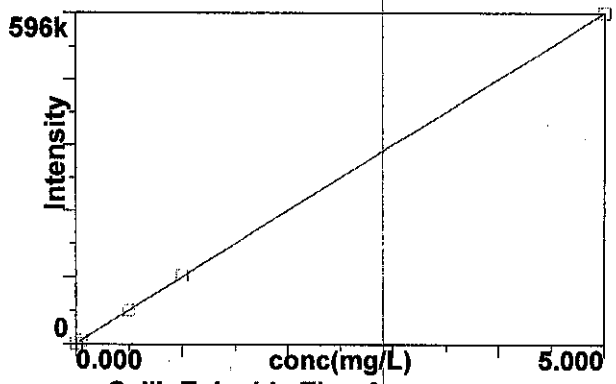
Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

14

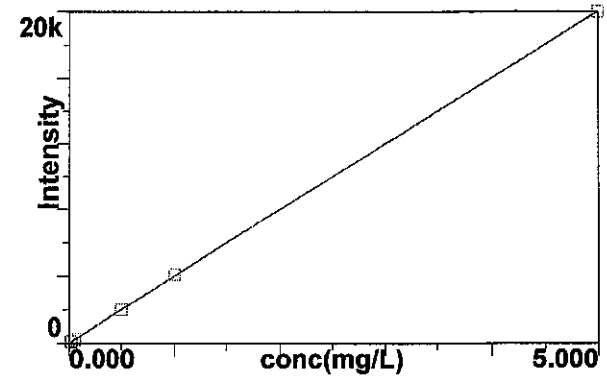
Cu 324.752



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

15

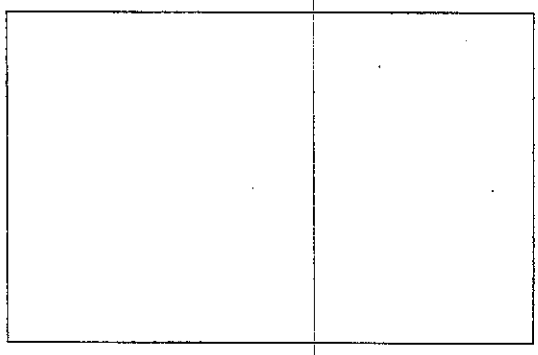
Fe 238.204



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

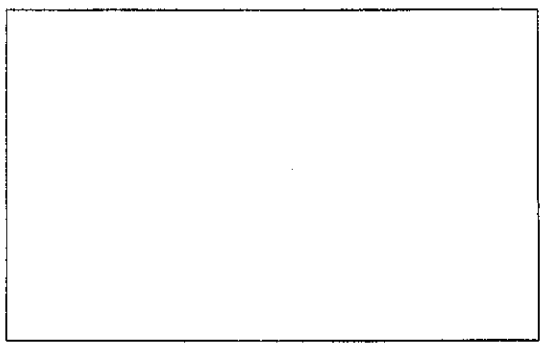
16

K 766.490



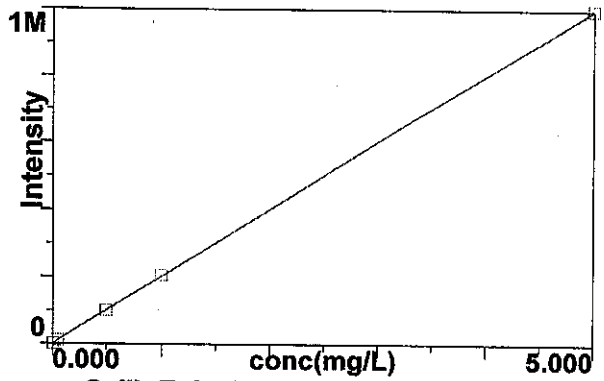
17

Mg 285.213



18

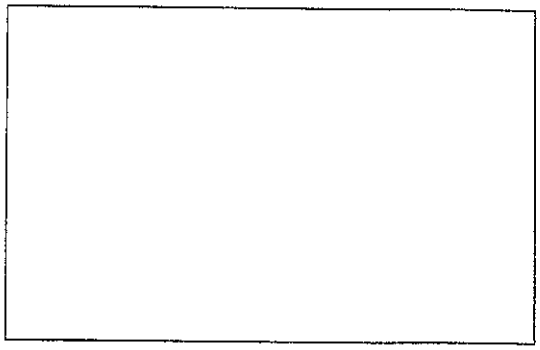
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

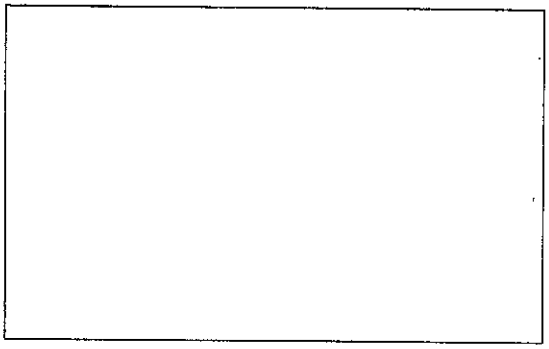
19

Mo 202.031



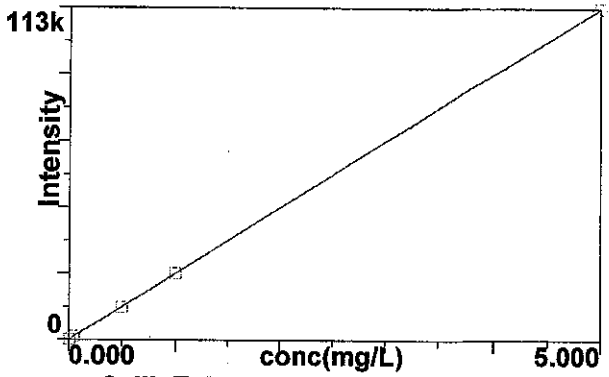
20

Na 589.592



21

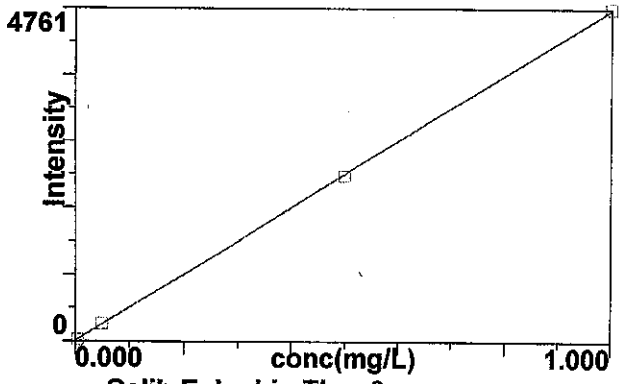
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

22

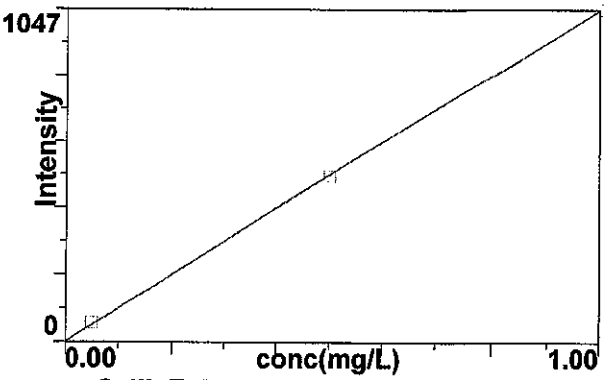
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999978

23

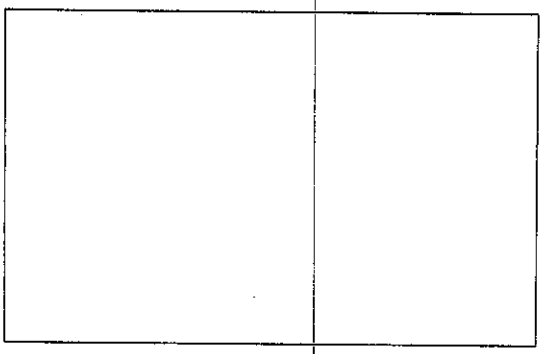
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999965

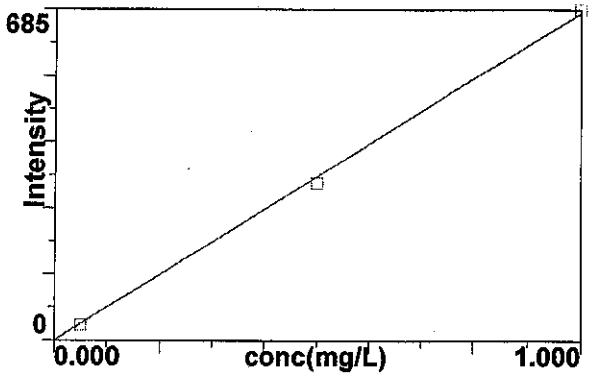
24

Sb 206.836



25

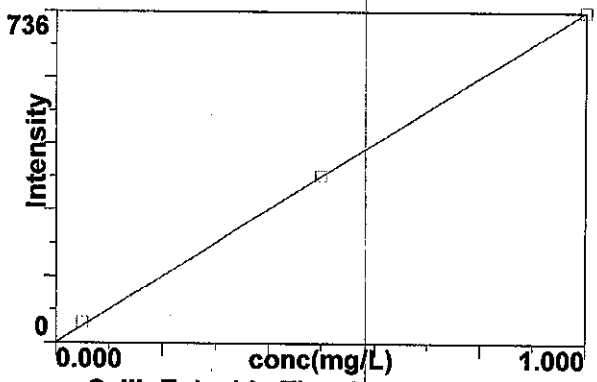
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999794

26

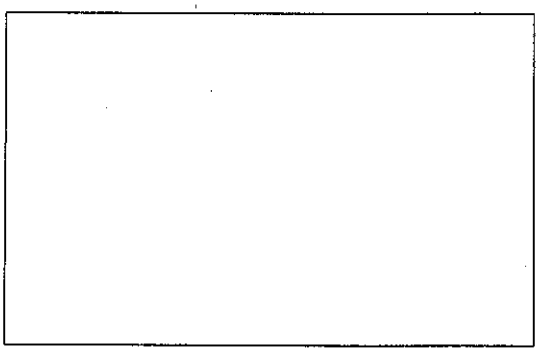
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999948

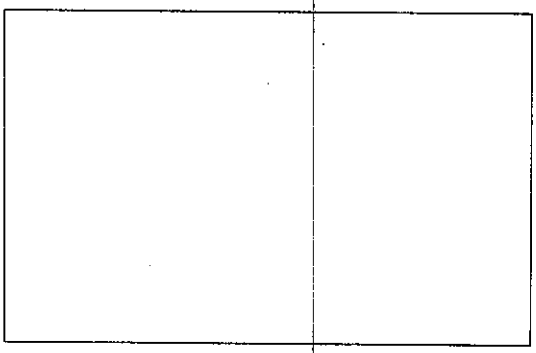
27

Si 212.412



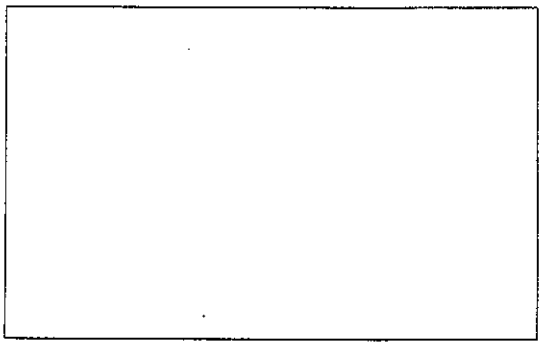
28

Sn 189.927



29

Ti 334.940



30

Tl 190.801

31

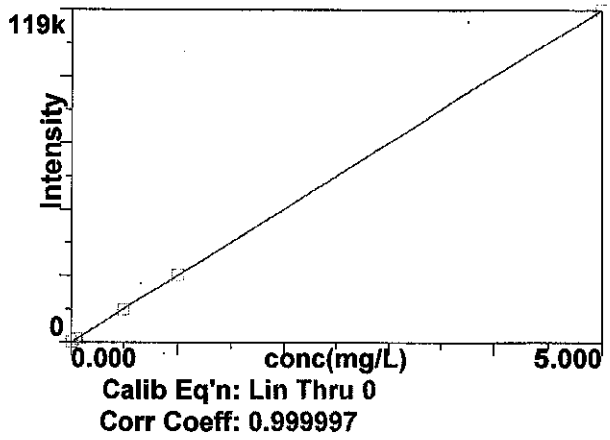
U 385.958

32

V 292.402

33

Zn 206.200



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

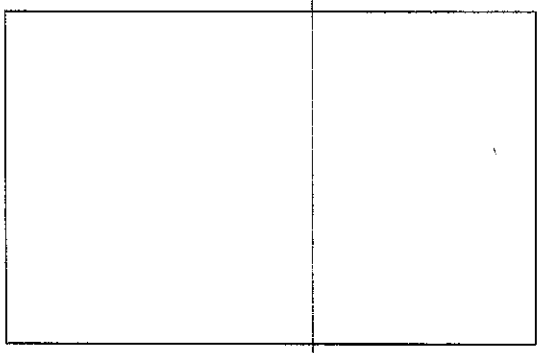
36

Sr 421.552

37

38

U 424.167



39

Analysis Begun

Start Time: 7/3/2014 10:08:27 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/3/2014 9:23:52 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070314 B14031.sif
Batch ID: 070314 B14031
Results Data Set: 070314 B14031
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 010814 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 3/27/2014 11:30:19 AM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/3/2014 10:08:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	35526.0	393.18	1.11%	100.00	%
Y 371.029	642337.8	2882.94	0.45%	100.00	%
Ag 328.068†	106.2	27.42	25.82%	[0.00]	mg/L
As 188.979†	14.8	1.66	11.23%	[0.00]	mg/L
As 193.696†	-11.9	4.87	40.83%	[0.00]	mg/L
Ba 233.527†	-4.3	6.68	154.43%	[0.00]	mg/L
Cd 228.802†	-26.8	4.24	15.80%	[0.00]	mg/L
Cd 226.502†	48.7	3.65	7.49%	[0.00]	mg/L
Cr 267.716†	-12.8	5.95	46.61%	[0.00]	mg/L
Cr 205.560†	-23.9	18.37	76.86%	[0.00]	mg/L
Cu 324.752†	-3511.9	32.60	0.93%	[0.00]	mg/L
Fe 238.204†	49.7	3.90	7.85%	[0.00]	mg/L
Mn 257.610†	72.8	30.26	41.58%	[0.00]	mg/L
Ni 231.604†	-109.2	7.89	7.22%	[0.00]	mg/L
Pb 220.353†	-38.6	0.94	2.43%	[0.00]	mg/L
Pb 217.000†	3.9	10.82	280.47%	[0.00]	mg/L
Se 203.985†	6.3	8.30	132.76%	[0.00]	mg/L
Se 196.026†	-23.8	4.74	19.92%	[0.00]	mg/L
Zn 206.200†	-1.5	4.71	316.97%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 7/3/2014 10:10:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	34705.3	296.63	0.85%	97.690	%
Y 371.029	618981.7	5229.32	0.84%	96.364	%
Ag 328.068†	467.6	35.34	7.56%	[0.005]	mg/L
As 188.979†	13.6	1.17	8.62%	[0.02]	mg/L
As 193.696†	20.5	5.53	27.05%	[0.02]	mg/L
Ba 233.527†	109.7	5.40	4.92%	[0.002]	mg/L
Cd 228.802†	29.1	3.21	11.04%	[0.002]	mg/L
Cd 226.502†	78.0	2.90	3.72%	[0.002]	mg/L
Cr 267.716†	166.7	2.73	1.64%	[0.006]	mg/L
Cr 205.560†	122.2	7.88	6.45%	[0.006]	mg/L
Cu 324.752†	565.6	22.28	3.94%	[0.006]	mg/L
Fe 238.204†	88.9	2.74	3.09%	[0.02]	mg/L
Mn 257.610†	646.5	30.39	4.70%	[0.002]	mg/L
Ni 231.604†	128.7	5.76	4.47%	[0.005]	mg/L
Pb 220.353†	21.1	5.27	24.91%	[0.005]	mg/L
Zn 206.200†	157.5	4.36	2.77%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 7/3/2014 10:11:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	33857.6	155.50	0.46%	95.304	%
Y 371.029	610298.9	4744.52	0.78%	95.012	%
Ag 328.068†	4760.5	23.31	0.49%	[0.05]	mg/L
As 188.979†	30.1	1.99	6.61%	[0.050]	mg/L
As 193.696†	37.1	1.45	3.90%	[0.050]	mg/L
Ba 233.527†	2872.8	17.87	0.62%	[0.05]	mg/L
Cd 228.802†	633.2	6.46	1.02%	[0.05]	mg/L
Cd 226.502†	2101.6	13.40	0.64%	[0.05]	mg/L
Cr 267.716†	1455.1	12.50	0.86%	[0.05]	mg/L
Cr 205.560†	1321.1	2.25	0.17%	[0.05]	mg/L
Cu 324.752†	6139.8	61.41	1.00%	[0.050]	mg/L
Fe 238.204†	235.8	14.47	6.14%	[0.050]	mg/L
Mn 257.610†	15620.2	47.13	0.30%	[0.05]	mg/L
Ni 231.604†	1172.2	20.15	1.72%	[0.05]	mg/L
Pb 220.353†	249.9	6.90	2.76%	[0.05]	mg/L
Pb 217.000†	59.9	8.90	14.85%	[0.05]	mg/L
Se 203.985†	31.3	17.09	54.56%	[0.050]	mg/L
Se 196.026†	45.1	5.54	12.29%	[0.050]	mg/L
Zn 206.200†	1296.0	20.15	1.55%	[0.05]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/3/2014 10:13:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	34509.5	293.58	0.85%	97.139	%
Y 371.029	618219.0	4055.20	0.66%	96.245	%
Ag 328.068†	45718.2	98.73	0.22%	[0.50]	mg/L
As 188.979†	309.7	2.93	0.95%	[0.50]	mg/L
As 193.696†	377.1	4.74	1.26%	[0.50]	mg/L
Ba 233.527†	27125.0	17.86	0.07%	[0.50]	mg/L
Cd 228.802†	6013.0	38.06	0.63%	[0.50]	mg/L
Cd 226.502†	20069.9	12.66	0.06%	[0.50]	mg/L
Cr 267.716†	13897.3	53.92	0.39%	[0.50]	mg/L
Cr 205.560†	12775.4	63.97	0.50%	[0.50]	mg/L
Cu 324.752†	59589.9	120.92	0.20%	[0.50]	mg/L
Fe 238.204†	2028.4	6.38	0.31%	[0.50]	mg/L
Mn 257.610†	149891.1	356.78	0.24%	[0.5]	mg/L
Ni 231.604†	11072.4	9.30	0.08%	[0.50]	mg/L
Pb 220.353†	2343.9	29.28	1.25%	[0.50]	mg/L
Pb 217.000†	516.9	4.49	0.87%	[0.50]	mg/L
Se 203.985†	325.6	12.22	3.75%	[0.50]	mg/L
Se 196.026†	369.8	2.95	0.80%	[0.50]	mg/L
Zn 206.200†	11612.8	3.50	0.03%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 7/3/2014 10:15:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	34570.6	236.67	0.68%	97.311	%
Y 371.029	622299.2	3300.11	0.53%	96.880	%
Ag 328.068†	93642.2	206.15	0.22%	[1.00]	mg/L
As 188.979†	634.3	0.79	0.13%	[1.00]	mg/L
As 193.696†	769.9	12.85	1.67%	[1.00]	mg/L
Ba 233.527†	55457.6	169.11	0.30%	[1.00]	mg/L
Cd 228.802†	12236.7	41.82	0.34%	[1.00]	mg/L
Cd 226.502†	40874.5	97.76	0.24%	[1.00]	mg/L
Cr 267.716†	28372.6	82.78	0.29%	[1.00]	mg/L
Cr 205.560†	26116.5	117.50	0.45%	[1.00]	mg/L
Cu 324.752†	121935.5	324.93	0.27%	[1.00]	mg/L
Fe 238.204†	4142.4	25.87	0.62%	[1.00]	mg/L
Mn 257.610†	304934.8	814.42	0.27%	[1.00]	mg/L
Ni 231.604†	22496.0	52.09	0.23%	[1.00]	mg/L
Pb 220.353†	4761.4	45.49	0.96%	[1.00]	mg/L
Pb 217.000†	1047.3	14.51	1.39%	[1.00]	mg/L
Se 203.985†	685.3	4.12	0.60%	[1.00]	mg/L
Se 196.026†	735.7	7.56	1.03%	[1.00]	mg/L
Zn 206.200†	23869.5	85.48	0.36%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 7/3/2014 10:16:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	34835.8	375.33	1.08%	98.057	%
Y 371.029	620025.1	216.77	0.03%	96.526	%
Ba 233.527†	277168.2	493.57	0.18%	[5.00]	mg/L
Cd 228.802†	60776.9	64.48	0.11%	[5.00]	mg/L
Cd 226.502†	203827.8	296.70	0.15%	[5.00]	mg/L
Cr 267.716†	141312.7	162.78	0.12%	[5.00]	mg/L
Cr 205.560†	130437.8	169.72	0.13%	[5.00]	mg/L
Cu 324.752†	596222.2	212.44	0.04%	[5.00]	mg/L
Fe 238.204†	20208.0	23.62	0.12%	[5.00]	mg/L
Mn 257.610†	1494512.6	2252.07	0.15%	[5.00]	mg/L
Ni 231.604†	112601.6	320.75	0.28%	[5.00]	mg/L
Zn 206.200†	118588.4	194.13	0.16%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	93210	0.00000	0.999955	
As 188.979	4	Lin Thru 0	0.0	631.3	0.00000	0.999952	
As 193.696	4	Lin Thru 0	0.0	766.8	0.00000	0.999948	
Ba 233.527	5	Lin Thru 0	0.0	55420	0.00000	0.999998	
Cd 228.802	5	Lin Thru 0	0.0	12160	0.00000	0.999999	
Cd 226.502	5	Lin Thru 0	0.0	40760	0.00000	0.999999	
Cr 267.716	5	Lin Thru 0	0.0	28260	0.00000	0.999998	
Cr 205.560	5	Lin Thru 0	0.0	26080	0.00000	0.999998	
Cu 324.752	5	Lin Thru 0	0.0	119300	0.00000	0.999991	
Fe 238.204	5	Lin Thru 0	0.0	4046	0.00000	0.999987	
Mn 257.610	5	Lin Thru 0	0.0	299100	0.00000	0.999992	
Ni 231.604	5	Lin Thru 0	0.0	22520	0.00000	0.999999	
Pb 220.353	4	Lin Thru 0	0.0	4747	0.00000	0.999978	
Pb 217.000	3	Lin Thru 0	0.0	1045	0.00000	0.999965	
Se 203.985	3	Lin Thru 0	0.0	678.4	0.00000	0.999794	
Se 196.026	3	Lin Thru 0	0.0	736.8	0.00000	0.999948	
Zn 206.200	5	Lin Thru 0	0.0	23720	0.00000	0.999997	

User canceled analysis.

7/8/14

Analysis Begun

Start Time: 7/3/2014 10:17:49 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/3/2014 9:23:52 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070314 B14031.sif
Batch ID: 070314 B14031
Results Data Set: 070314 B14031
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 401
Date Collected: 7/3/2014 10:17:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35412.7	99.681	%	1.9403				1.95%
Y 371.029	619104.4	96.383	%	0.4596				0.48%
Ag 328.068†	46977.3	0.50402	mg/L	0.000192	0.50402	mg/L	0.000192	0.04%
QC value within limits for Ag 328.068 Recovery = 100.80%								
As 188.979†	319.0	0.50536	mg/L	0.006409	0.50536	mg/L	0.006409	1.27%
QC value within limits for As 188.979 Recovery = 101.07%								
As 193.696†	392.2	0.51145	mg/L	0.005215	0.51145	mg/L	0.005215	1.02%
Ba 233.527†	27764.8	0.50096	mg/L	0.000726	0.50096	mg/L	0.000726	0.15%
QC value within limits for Ba 233.527 Recovery = 100.19%								
Cd 228.802†	6118.3	0.50326	mg/L	0.001227	0.50326	mg/L	0.001227	0.24%
QC value within limits for Cd 228.802 Recovery = 100.65%								
Cd 226.502†	20302.9	0.49806	mg/L	0.000844	0.49806	mg/L	0.000844	0.17%
Cr 267.716†	14209.4	0.50277	mg/L	0.001283	0.50277	mg/L	0.001283	0.26%
Cr 205.560†	13115.1	0.50281	mg/L	0.001841	0.50281	mg/L	0.001841	0.37%
QC value within limits for Cr 205.560 Recovery = 100.56%								
Cu 324.752†	60778.9	0.50926	mg/L	0.001453	0.50926	mg/L	0.001453	0.29%
QC value within limits for Cu 324.752 Recovery = 101.85%								
Fe 238.204†	2050.1	0.50675	mg/L	0.011952	0.50675	mg/L	0.011952	2.36%
QC value within limits for Fe 238.204 Recovery = 101.35%								
Mn 257.610†	152980.1	0.51140	mg/L	0.000414	0.51140	mg/L	0.000414	0.08%
QC value within limits for Mn 257.610 Recovery = 102.28%								
Ni 231.604†	11508.3	0.51112	mg/L	0.001087	0.51112	mg/L	0.001087	0.21%
QC value within limits for Ni 231.604 Recovery = 102.22%								
Pb 220.353†	2409.3	0.50752	mg/L	0.003373	0.50752	mg/L	0.003373	0.66%
QC value within limits for Pb 220.353 Recovery = 101.50%								
Pb 217.000†	542.1	0.51879	mg/L	0.010212	0.51879	mg/L	0.010212	1.97%
Se 203.985†	337.7	0.49783	mg/L	0.013767	0.49783	mg/L	0.013767	2.77%
Se 196.026†	368.9	0.50065	mg/L	0.001886	0.50065	mg/L	0.001886	0.38%
QC value within limits for Se 196.026 Recovery = 100.13%								
Zn 206.200†	11850.0	0.49960	mg/L	0.003181	0.49960	mg/L	0.003181	0.64%
QC value within limits for Zn 206.200 Recovery = 99.92%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/3/2014 10:19:30 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/3/2014 9:23:52 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070314 B14031.sif
Batch ID: 070314 B14031
Results Data Set: 070314 B14031
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/3/2014 10:19:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35888.6	101.02	%	1.137				1.13%
Y 371.029	641764.0	99.911	%	0.7871				0.79%
Ag 328.068†	50.2	0.00054	mg/L	0.000590	0.00054	mg/L	0.000590	109.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								

As 188.979†	-0.9	-0.00141 mg/L	0.005958	-0.00141 mg/L	0.005958	422.05%	
QC value within limits for As 188.979 Recovery = Not calculated							
As 193.696†	3.7	0.00488 mg/L	0.008713	0.00488 mg/L	0.008713	178.46%	
Ba 233.527†	0.5	0.00001 mg/L	0.000172	0.00001 mg/L	0.000172	>999.9%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Cd 228.802†	4.6	0.00038 mg/L	0.000229	0.00038 mg/L	0.000229	60.56%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 226.502†	10.1	0.00025 mg/L	0.000093	0.00025 mg/L	0.000093	37.28%	
Cr 267.716†	-2.3	-0.00008 mg/L	0.000267	-0.00008 mg/L	0.000267	324.53%	
Cr 205.560†	-7.6	-0.00029 mg/L	0.000386	-0.00029 mg/L	0.000386	132.54%	
QC value within limits for Cr 205.560 Recovery = Not calculated							
Cu 324.752†	-0.6	-0.00000 mg/L	0.000263	-0.00000 mg/L	0.000263	>999.9%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204†	-0.9	-0.00023 mg/L	0.001001	-0.00023 mg/L	0.001001	441.96%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
Mn 257.610†	-14.3	-0.00005 mg/L	0.000069	-0.00005 mg/L	0.000069	144.47%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Ni 231.604†	12.1	0.00054 mg/L	0.000410	0.00054 mg/L	0.000410	76.43%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	3.1	0.00066 mg/L	0.000793	0.00066 mg/L	0.000793	120.35%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	11.3	0.01078 mg/L	0.004927	0.01078 mg/L	0.004927	45.71%	
Se 203.985†	1.6	0.00231 mg/L	0.017136	0.00231 mg/L	0.017136	740.24%	
Se 196.026†	6.1	0.00832 mg/L	0.003370	0.00832 mg/L	0.003370	40.51%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Zn 206.200†	10.3	0.00043 mg/L	0.000200	0.00043 mg/L	0.000200	46.23%	
QC value within limits for Zn 206.200 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/3/2014 10:21:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35081.7	98.749	%	0.3032				0.31%
Y 371.029	616412.2	95.964	%	0.6571				0.68%
Ag 328.068†	469.0	0.00503	mg/L	0.000349	0.00503	mg/L	0.000349	6.94%
QC value within limits for Ag 328.068 Recovery = 100.65%								
As 188.979†	11.3	0.01789	mg/L	0.003155	0.01789	mg/L	0.003155	17.64%
QC value within limits for As 188.979 Recovery = 89.43%								
As 193.696†	18.9	0.02462	mg/L	0.004603	0.02462	mg/L	0.004603	18.70%
Ba 233.527†	131.3	0.00237	mg/L	0.000376	0.00237	mg/L	0.000376	15.87%
QC value within limits for Ba 233.527 Recovery = 118.45%								
Cd 228.802†	27.8	0.00228	mg/L	0.000269	0.00228	mg/L	0.000269	11.78%
QC value within limits for Cd 228.802 Recovery = 114.23%								
Cd 226.502†	77.6	0.00190	mg/L	0.000175	0.00190	mg/L	0.000175	9.21%
Cr 267.716†	164.2	0.00581	mg/L	0.000226	0.00581	mg/L	0.000226	3.89%
Cr 205.560†	138.3	0.00530	mg/L	0.001367	0.00530	mg/L	0.001367	25.79%
QC value within limits for Cr 205.560 Recovery = 88.35%								
Cu 324.752†	530.2	0.00444	mg/L	0.000368	0.00444	mg/L	0.000368	8.29%
QC value within limits for Cu 324.752 Recovery = 74.04%								
Fe 238.204†	86.6	0.02140	mg/L	0.002175	0.02140	mg/L	0.002175	10.16%
QC value within limits for Fe 238.204 Recovery = 107.01%								
Mn 257.610†	622.3	0.00208	mg/L	0.000156	0.00208	mg/L	0.000156	7.49%
QC value within limits for Mn 257.610 Recovery = 104.01%								
Ni 231.604†	133.9	0.00595	mg/L	0.000329	0.00595	mg/L	0.000329	5.53%
QC value within limits for Ni 231.604 Recovery = 118.96%								
Pb 220.353†	31.9	0.00673	mg/L	0.002139	0.00673	mg/L	0.002139	31.79%

QC value within limits for Pb 220.353 Recovery = 134.56%

Pb 217.000†	9.4	0.00897	mg/L	0.003521	0.00897	mg/L	0.003521	39.28%
Se 203.985†	37.4	0.05506	mg/L	0.010805	0.05506	mg/L	0.010805	19.63%
Se 196.026†	36.9	0.05006	mg/L	0.001237	0.05006	mg/L	0.001237	2.47%

QC value within limits for Se 196.026 Recovery = 100.11%

Zn 206.200†	152.5	0.00643	mg/L	0.000274	0.00643	mg/L	0.000274	4.26%

QC value within limits for Zn 206.200 Recovery = 128.59%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 7/3/2014 10:22:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	35763.1	100.67	%	0.297				0.29%
Y 371.029	638873.9	99.461	%	1.1762				1.18%
Ag 328.068†	45061.0	0.48346	mg/L	0.000706	0.48346	mg/L	0.000706	0.15%

QC value within limits for Ag 328.068 Recovery = 96.69%

As 188.979†	318.6	0.50470	mg/L	0.008278	0.50470	mg/L	0.008278	1.64%

QC value within limits for As 188.979 Recovery = 100.94%

As 193.696†	331.8	0.43275	mg/L	0.009936	0.43275	mg/L	0.009936	2.30%
Ba 233.527†	25952.9	0.46827	mg/L	0.000516	0.46827	mg/L	0.000516	0.11%

QC value within limits for Ba 233.527 Recovery = 93.65%

Cd 228.802†	6002.4	0.49373	mg/L	0.007462	0.49373	mg/L	0.007462	1.51%

QC value within limits for Cd 228.802 Recovery = 98.75%

Cd 226.502†	19567.4	0.48002	mg/L	0.001460	0.48002	mg/L	0.001460	0.30%
Cr 267.716†	13120.6	0.46424	mg/L	0.000849	0.46424	mg/L	0.000849	0.18%
Cr 205.560†	11963.5	0.45866	mg/L	0.007682	0.45866	mg/L	0.007682	1.67%

QC value within limits for Cr 205.560 Recovery = 91.73%

Cu 324.752†	54798.8	0.45916	mg/L	0.000350	0.45916	mg/L	0.000350	0.08%

QC value within limits for Cu 324.752 Recovery = 91.83%

Fe 238.204†	76433.6	18.893	mg/L	0.0343	18.893	mg/L	0.0343	0.18%
Mn 257.610†	138835.3	0.46411	mg/L	0.000549	0.46411	mg/L	0.000549	0.12%

QC value within limits for Mn 257.610 Recovery = 92.82%

Ni 231.604†	10056.8	0.44665	mg/L	0.001383	0.44665	mg/L	0.001383	0.31%

QC value within limits for Ni 231.604 Recovery = 89.33%

Pb 220.353†	2159.0	0.45480	mg/L	0.009513	0.45480	mg/L	0.009513	2.09%

QC value within limits for Pb 220.353 Recovery = 90.96%

Pb 217.000†	514.8	0.49267	mg/L	0.009844	0.49267	mg/L	0.009844	2.00%
Se 203.985†	319.8	0.47144	mg/L	0.023425	0.47144	mg/L	0.023425	4.97%
Se 196.026†	377.4	0.51225	mg/L	0.004503	0.51225	mg/L	0.004503	0.88%

QC value within limits for Se 196.026 Recovery = 102.45%

Zn 206.200†	11393.7	0.48036	mg/L	0.002158	0.48036	mg/L	0.002158	0.45%

QC value within limits for Zn 206.200 Recovery = 96.07%

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 7/3/2014 10:24:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36240.4	102.01	%	0.194				0.19%
Y 371.029	648420.7	100.95	%	1.985				1.97%
Ag 328.068†	19.2	0.00021	mg/L	0.000130	0.00021	mg/L	0.000130	62.99%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.1	0.00181	mg/L	0.005386	0.00181	mg/L	0.005386	297.30%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-53.8	-0.07020	mg/L	0.009915	-0.07020	mg/L	0.009915	14.12%
Ba 233.527†	52.0	0.00094	mg/L	0.000537	0.00094	mg/L	0.000537	57.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-6.6	-0.00054	mg/L	0.000203	-0.00054	mg/L	0.000203	37.48%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-24.5	-0.00060	mg/L	0.000161	-0.00060	mg/L	0.000161	26.79%
Cr 267.716†	11.0	0.00039	mg/L	0.000277	0.00039	mg/L	0.000277	71.09%
Cr 205.560†	-89.3	-0.00342	mg/L	0.000515	-0.00342	mg/L	0.000515	15.03%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-479.2	-0.00402	mg/L	0.000566	-0.00402	mg/L	0.000566	14.09%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	74729.4	18.472	mg/L	0.0288	18.472	mg/L	0.0288	0.16%
Mn 257.610†	-67.6	-0.00023	mg/L	0.000116	-0.00023	mg/L	0.000116	51.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	-7.2	-0.00032	mg/L	0.000129	-0.00032	mg/L	0.000129	40.10%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-61.3	-0.01291	mg/L	0.000990	-0.01291	mg/L	0.000990	7.67%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	18.6	0.01778	mg/L	0.004362	0.01778	mg/L	0.004362	24.54%
Se 203.985†	-27.4	-0.04038	mg/L	0.006456	-0.04038	mg/L	0.006456	15.99%
Se 196.026†	-13.0	-0.01770	mg/L	0.011621	-0.01770	mg/L	0.011621	65.64%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	68.3	0.00288	mg/L	0.000097	0.00288	mg/L	0.000097	3.35%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-14031
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 101
Date Collected: 7/3/2014 10:25:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14031

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

NR. See RR. 7/8/14

Mean Data: MB-14031

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	33597.5	94.571	%	0.4017				0.42%
Y 371.029	589604.8	91.790	%	0.9344				1.02%
Ag 328.068†	49.5	0.00053	mg/L	0.000204	0.00053	mg/L	0.000204	38.35%
As 188.979†	0.0	0.00007	mg/L	0.004782	0.00007	mg/L	0.004782	>999.9%
As 193.696†	2.1	0.00279	mg/L	0.004710	0.00279	mg/L	0.004710	168.94%
Ba 233.527†	22.5	0.00041	mg/L	0.000431	0.00041	mg/L	0.000431	105.97%
Cd 228.802†	3.3	0.00027	mg/L	0.000096	0.00027	mg/L	0.000096	35.69%
Cd 226.502†	2.4	0.00006	mg/L	0.000076	0.00006	mg/L	0.000076	130.67%
Cr 267.716†	11.1	0.00039	mg/L	0.000136	0.00039	mg/L	0.000136	34.45%
Cr 205.560†	-28.1	-0.00108	mg/L	0.000455	-0.00108	mg/L	0.000455	42.27%
Cu 324.752†	-61.9	-0.00052	mg/L	0.000258	-0.00052	mg/L	0.000258	49.67%
Fe 238.204†	109.5	0.02706	mg/L	0.003177	0.02706	mg/L	0.003177	11.74%
Mn 257.610†	135.0	0.00045	mg/L	0.000058	0.00045	mg/L	0.000058	12.89%
Ni 231.604†	30.9	0.00137	mg/L	0.000158	0.00137	mg/L	0.000158	11.54%
Pb 220.353†	2.8	0.00059	mg/L	0.000976	0.00059	mg/L	0.000976	165.67%
Pb 217.000†	17.8	0.01708	mg/L	0.010417	0.01708	mg/L	0.010417	61.00%

Se 203.985†	-5.4	-0.00794 mg/L	0.006515	-0.00794 mg/L	0.006515	82.09%
Se 196.026†	11.3	0.01539 mg/L	0.011707	0.01539 mg/L	0.011707	76.07%
Zn 206.200†	113.0	0.00477 mg/L	0.000069	0.00477 mg/L	0.000069	1.45%

Sequence No.: 17
Sample ID: LCS-14031
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 102
Date Collected: 7/3/2014 10:27:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14031

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: LCS-14031

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	33047.9	93.024	%	0.2135				0.23%
Y 371.029	577750.4	89.945	%	0.0526				0.06%
Ag 328.068†	8744.8	0.09382	mg/L	0.000527	0.09382	mg/L	0.000527	0.56%
As 188.979†	295.4	0.46791	mg/L	0.010843	0.46791	mg/L	0.010843	2.32%
As 193.696†	355.9	0.46410	mg/L	0.008415	0.46410	mg/L	0.008415	1.81%
Ba 233.527†	24800.2	0.44747	mg/L	0.001265	0.44747	mg/L	0.001265	0.28%
Cd 228.802†	5485.7	0.45123	mg/L	0.001187	0.45123	mg/L	0.001187	0.26%
Cd 226.502†	18335.5	0.44980	mg/L	0.001904	0.44980	mg/L	0.001904	0.42%
Cr 267.716†	12867.6	0.45529	mg/L	0.000940	0.45529	mg/L	0.000940	0.21%
Cr 205.560†	11738.2	0.45002	mg/L	0.001383	0.45002	mg/L	0.001383	0.31%
Cu 324.752†	55492.1	0.46497	mg/L	0.000621	0.46497	mg/L	0.000621	0.13%
Fe 238.204†	1948.4	0.48162	mg/L	0.002394	0.48162	mg/L	0.002394	0.50%
Mn 257.610†	133541.8	0.44642	mg/L	0.000518	0.44642	mg/L	0.000518	0.12%
Ni 231.604†	9823.5	0.43629	mg/L	0.001219	0.43629	mg/L	0.001219	0.28%
Pb 220.353†	2076.7	0.43746	mg/L	0.004253	0.43746	mg/L	0.004253	0.97%
Pb 217.000†	465.1	0.44510	mg/L	0.006501	0.44510	mg/L	0.006501	1.46%
Se 203.985†	266.3	0.39257	mg/L	0.023177	0.39257	mg/L	0.023177	5.90%
Se 196.026†	319.8	0.43406	mg/L	0.018857	0.43406	mg/L	0.018857	4.34%
Zn 206.200†	10658.9	0.44938	mg/L	0.001967	0.44938	mg/L	0.001967	0.44%

Matrix Recovery Check: LCS-14031

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	0.52706	0.48162	0.002	mg/L	90.9
Ag 328.068	0.10053	0.09382	0.001	mg/L	93.3
As 188.979	0.50007	0.46791	0.011	mg/L	93.6
As 193.696	0.50279	0.46410	0.008	mg/L	92.3
Ba 233.527	0.50041	0.44747	0.001	mg/L	89.4
Cd 228.802	0.50027	0.45123	0.001	mg/L	90.2
Cd 226.502	0.50006	0.44980	0.002	mg/L	89.9
Cr 267.716	0.50039	0.45529	0.001	mg/L	91.0
Cr 205.560	0.49892	0.45002	0.001	mg/L	90.2
Cu 324.752	0.49948	0.46497	0.001	mg/L	93.1
Mn 257.610	0.50045	0.44642	0.001	mg/L	89.2
Ni 231.604	0.50137	0.43629	0.001	mg/L	87.0
Pb 220.353	0.50059	0.43746	0.004	mg/L	87.4
Pb 217.000	0.51708	0.44510	0.007	mg/L	85.6
Se 203.985	0.49206	0.39257	0.023	mg/L	80.1
Se 196.026	0.51539	0.43406	0.019	mg/L	83.7
Zn 206.200	0.50477	0.44938	0.002	mg/L	88.9

Sequence No.: 18
Sample ID: MB-14032
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 103
Date Collected: 7/3/2014 10:28:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

	Conc.	Conc.	Dev.		(%)
Fe 238.204	0.53819	0.49704	0.005	mg/L	91.8
Ag 328.068	0.10026	0.09623	0.001	mg/L	96.0
As 188.979	0.49637	0.47941	0.006	mg/L	96.6
As 193.696	0.50313	0.47400	0.004	mg/L	94.2
Ba 233.527	0.50055	0.45936	0.001	mg/L	91.8
Cd 228.802	0.50020	0.46334	0.002	mg/L	92.6
Cd 226.502	0.50003	0.46270	0.001	mg/L	92.5
Cr 267.716	0.50029	0.46833	0.002	mg/L	93.6
Cr 205.560	0.49925	0.46388	0.001	mg/L	92.9
Cu 324.752	0.50339	0.48242	0.000	mg/L	95.8
Mn 257.610	0.50129	0.45704	0.001	mg/L	91.2
Ni 231.604	0.50155	0.44877	0.001	mg/L	89.4
Pb 220.353	0.50115	0.45074	0.001	mg/L	89.9
Pb 217.000	0.50521	0.46370	0.006	mg/L	91.7
Se 203.985	0.48987	0.41246	0.016	mg/L	84.5
Se 196.026	0.50659	0.44632	0.017	mg/L	87.9
Zn 206.200	0.50554	0.46379	0.002	mg/L	91.6

Sequence No.: 20
Sample ID: MB-14031
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 101
Date Collected: 7/3/2014 10:32:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14031

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: MB-14031

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33964.1	95.603	%	0.5043				0.53%
Y 371.029	601347.1	93.619	%	0.5591				0.60%
Ag 328.068†	8.0	0.00009	mg/L	0.000015	0.00009	mg/L	0.000015	17.46%
As 188.979†	-2.5	-0.00390	mg/L	0.005716	-0.00390	mg/L	0.005716	146.64%
As 193.696†	1.5	0.00200	mg/L	0.009410	0.00200	mg/L	0.009410	469.46%
Ba 233.527†	12.8	0.00023	mg/L	0.000113	0.00023	mg/L	0.000113	49.05%
Cd 228.802†	2.9	0.00024	mg/L	0.000625	0.00024	mg/L	0.000625	258.69%
Cd 226.502†	1.5	0.00004	mg/L	0.000189	0.00004	mg/L	0.000189	518.91%
Cr 267.716†	10.8	0.00038	mg/L	0.000149	0.00038	mg/L	0.000149	39.10%
Cr 205.560†	-19.6	-0.00075	mg/L	0.000417	-0.00075	mg/L	0.000417	55.40%
Cu 324.752†	84.8	0.00071	mg/L	0.000309	0.00071	mg/L	0.000309	43.48%
Fe 238.204†	85.3	0.02108	mg/L	0.002428	0.02108	mg/L	0.002428	11.52%
Mn 257.610†	152.4	0.00051	mg/L	0.000091	0.00051	mg/L	0.000091	17.77%
Ni 231.604†	36.9	0.00164	mg/L	0.000262	0.00164	mg/L	0.000262	16.01%
Pb 220.353†	-0.9	-0.00019	mg/L	0.002278	-0.00019	mg/L	0.002278	>999.9%
Pb 217.000†	6.9	0.00660	mg/L	0.003377	0.00660	mg/L	0.003377	51.19%
Se 203.985†	-7.9	-0.01168	mg/L	0.014603	-0.01168	mg/L	0.014603	125.08%
Se 196.026†	4.6	0.00620	mg/L	0.002207	0.00620	mg/L	0.002207	35.59%
Zn 206.200†	108.0	0.00455	mg/L	0.000054	0.00455	mg/L	0.000054	1.18%

See CAR #4749 >PQL JV 7/8/14

Sequence No.: 21
Sample ID: 1407066-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 105
Date Collected: 7/3/2014 10:34:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-001A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	39114.5	110.10	%	0.831				0.75%
Y 371.029	674099.3	104.94	%	0.166				0.16%
Ag 328.068†	-328.1	-0.00352	mg/L	0.000211	-0.00352	mg/L	0.000211	5.99%
As 188.979†	31.4	0.04972	mg/L	0.000349	0.04972	mg/L	0.000349	0.70%
As 193.696†	-98.1	-0.12800	mg/L	0.014138	-0.12800	mg/L	0.014138	11.05%
Ba 233.527†	128132.6	2.3119	mg/L	0.00443	2.3119	mg/L	0.00443	0.19%
Cd 228.802†	-9.3	-0.00077	mg/L	0.000466	-0.00077	mg/L	0.000466	60.81%
Cd 226.502†	-300.5	-0.00737	mg/L	0.000146	-0.00737	mg/L	0.000146	1.98%
Cr 267.716†	3306.9	0.11701	mg/L	0.000277	0.11701	mg/L	0.000277	0.24%
Cr 205.560†	2599.0	0.09964	mg/L	0.001192	0.09964	mg/L	0.001192	1.20%
Cu 324.752†	6959.8	0.05832	mg/L	0.000731	0.05832	mg/L	0.000731	1.25%
Fe 238.204†	636503.6	157.33	mg/L	0.099	157.33	mg/L	0.099	0.06%
Mn 257.610†	713115.6	2.3839	mg/L	0.00578	2.3839	mg/L	0.00578	0.24%
Ni 231.604†	2204.9	0.09793	mg/L	0.000458	0.09793	mg/L	0.000458	0.47%
Pb 220.353†	205.0	0.04319	mg/L	0.003139	0.04319	mg/L	0.003139	7.27%
Pb 217.000†	98.5	0.09431	mg/L	0.005155	0.09431	mg/L	0.005155	5.47%
Se 203.985†	1.0	0.00148	mg/L	0.021951	0.00148	mg/L	0.021951	>999.9%
Se 196.026†	-44.7	-0.06067	mg/L	0.005606	-0.06067	mg/L	0.005606	9.24%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7861.8	0.33146	mg/L	0.001098	0.33146	mg/L	0.001098	0.33%

Sequence No.: 22
Sample ID: 1407066-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 106
Date Collected: 7/3/2014 10:35:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-002A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	37573.3	105.76	%	0.890				0.84%
Y 371.029	633695.6	98.655	%	0.3784				0.38%
Ag 328.068†	-380.9	-0.00409	mg/L	0.000450	-0.00409	mg/L	0.000450	11.02%
As 188.979†	40.2	0.06365	mg/L	0.001605	0.06365	mg/L	0.001605	2.52%
As 193.696†	-104.7	-0.13656	mg/L	0.010880	-0.13656	mg/L	0.010880	7.97%
Ba 233.527†	140012.6	2.5262	mg/L	0.00409	2.5262	mg/L	0.00409	0.16%
Cd 228.802†	-12.3	-0.00101	mg/L	0.000235	-0.00101	mg/L	0.000235	23.25%
Cd 226.502†	-221.3	-0.00543	mg/L	0.000081	-0.00543	mg/L	0.000081	1.49%
Cr 267.716†	2840.5	0.10051	mg/L	0.000547	0.10051	mg/L	0.000547	0.54%
Cr 205.560†	2242.8	0.08599	mg/L	0.001044	0.08599	mg/L	0.001044	1.21%
Cu 324.752†	7162.9	0.06002	mg/L	0.000962	0.06002	mg/L	0.000962	1.60%
Fe 238.204†	489629.8	121.03	mg/L	0.066	121.03	mg/L	0.066	0.05%
Mn 257.610†	517922.5	1.7314	mg/L	0.00110	1.7314	mg/L	0.00110	0.06%
Ni 231.604†	1857.6	0.08250	mg/L	0.000713	0.08250	mg/L	0.000713	0.86%
Pb 220.353†	540.3	0.11380	mg/L	0.002110	0.11380	mg/L	0.002110	1.85%
Pb 217.000†	204.4	0.19559	mg/L	0.012956	0.19559	mg/L	0.012956	6.62%
Se 203.985†	26.5	0.03911	mg/L	0.019717	0.03911	mg/L	0.019717	50.42%
Se 196.026†	-37.7	-0.05122	mg/L	0.007520	-0.05122	mg/L	0.007520	14.68%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7543.3	0.31803	mg/L	0.002671	0.31803	mg/L	0.002671	0.84%

Sequence No.: 23
Sample ID: 1407066-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 107
Date Collected: 7/3/2014 10:36:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-003A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36534.9	102.84	%	0.283				0.28%
Y 371.029	613037.1	95.438	%	0.4700				0.49%
Ag 328.068†	-502.9	-0.00540	mg/L	0.000635	-0.00540	mg/L	0.000635	11.77%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	50.6	0.08013	mg/L	0.006458	0.08013	mg/L	0.006458	8.06%
As 193.696†	-109.6	-0.14290	mg/L	0.015601	-0.14290	mg/L	0.015601	10.92%
Ba 233.527†	162447.9	2.9310	mg/L	0.00238	2.9310	mg/L	0.00238	0.08%
Cd 228.802†	-21.2	-0.00175	mg/L	0.000234	-0.00175	mg/L	0.000234	13.37%
Cd 226.502†	-206.7	-0.00507	mg/L	0.000132	-0.00507	mg/L	0.000132	2.60%
Cr 267.716†	2860.8	0.10122	mg/L	0.000345	0.10122	mg/L	0.000345	0.34%
Cr 205.560†	2251.2	0.08631	mg/L	0.000746	0.08631	mg/L	0.000746	0.86%
Cu 324.752†	5569.3	0.04666	mg/L	0.000562	0.04666	mg/L	0.000562	1.20%
Fe 238.204†	480715.5	118.82	mg/L	0.302	118.82	mg/L	0.302	0.25%
Mn 257.610†	468809.1	1.5672	mg/L	0.00116	1.5672	mg/L	0.00116	0.07%
Ni 231.604†	1849.7	0.08215	mg/L	0.000697	0.08215	mg/L	0.000697	0.85%
Pb 220.353†	414.7	0.08735	mg/L	0.000929	0.08735	mg/L	0.000929	1.06%
Pb 217.000†	188.4	0.18030	mg/L	0.011200	0.18030	mg/L	0.011200	6.21%
Se 203.985†	56.9	0.08393	mg/L	0.014524	0.08393	mg/L	0.014524	17.30%
Se 196.026†	-62.6	-0.08498	mg/L	0.019298	-0.08498	mg/L	0.019298	22.71%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	6870.2	0.28965	mg/L	0.002197	0.28965	mg/L	0.002197	0.76%

Sequence No.: 24
Sample ID: 1407066-004A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 108
Date Collected: 7/3/2014 10:38:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-004A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-004A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36234.2	101.99	%	1.127				1.11%
Y 371.029	617086.0	96.069	%	0.8214				0.85%
Ag 328.068†	-449.5	-0.00482	mg/L	0.000152	-0.00482	mg/L	0.000152	3.15%
As 188.979†	44.3	0.07013	mg/L	0.005773	0.07013	mg/L	0.005773	8.23%
As 193.696†	-81.4	-0.10616	mg/L	0.006995	-0.10616	mg/L	0.006995	6.59%
Ba 233.527†	394885.5	7.1249	mg/L	0.00889	7.1249	mg/L	0.00889	0.12%
Cd 228.802†	-23.3	-0.00191	mg/L	0.000109	-0.00191	mg/L	0.000109	5.69%
Cd 226.502†	-210.2	-0.00516	mg/L	0.000199	-0.00516	mg/L	0.000199	3.86%
Cr 267.716†	2519.5	0.08915	mg/L	0.000335	0.08915	mg/L	0.000335	0.38%
Cr 205.560†	1960.5	0.07516	mg/L	0.000690	0.07516	mg/L	0.000690	0.92%
Cu 324.752†	2921.6	0.02448	mg/L	0.000352	0.02448	mg/L	0.000352	1.44%
Fe 238.204†	447313.8	110.57	mg/L	0.283	110.57	mg/L	0.283	0.26%
Mn 257.610†	351675.2	1.1756	mg/L	0.00074	1.1756	mg/L	0.00074	0.06%
Ni 231.604†	1520.1	0.06751	mg/L	0.000688	0.06751	mg/L	0.000688	1.02%
Pb 220.353†	105.0	0.02213	mg/L	0.000840	0.02213	mg/L	0.000840	3.80%
Pb 217.000†	93.7	0.08971	mg/L	0.005801	0.08971	mg/L	0.005801	6.47%
Se 203.985†	41.2	0.06073	mg/L	0.023507	0.06073	mg/L	0.023507	38.70%
Se 196.026†	-44.6	-0.06048	mg/L	0.019816	-0.06048	mg/L	0.019816	32.76%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	5437.9	0.22926	mg/L	0.001681	0.22926	mg/L	0.001681	0.73%

Sequence No.: 25
Sample ID: 1407066-005A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 109
Date Collected: 7/3/2014 10:39:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-005A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-005A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	37596.6	105.83	%	0.349				0.33%
Y 371.029	644798.9	100.38	%	0.142				0.14%
Ag 328.068†	-339.4	-0.00364	mg/L	0.000426	-0.00364	mg/L	0.000426	11.70%
As 188.979†	34.4	0.05442	mg/L	0.006723	0.05442	mg/L	0.006723	12.35%
As 193.696†	-96.3	-0.12559	mg/L	0.007272	-0.12559	mg/L	0.007272	5.79%
Ba 233.527†	187695.0	3.3866	mg/L	0.00473	3.3866	mg/L	0.00473	0.14%
Cd 228.802†	-14.7	-0.00121	mg/L	0.000260	-0.00121	mg/L	0.000260	21.49%
Cd 226.502†	-250.0	-0.00613	mg/L	0.000144	-0.00613	mg/L	0.000144	2.35%
Cr 267.716†	2873.7	0.10168	mg/L	0.000782	0.10168	mg/L	0.000782	0.77%
Cr 205.560†	2249.0	0.08622	mg/L	0.000397	0.08622	mg/L	0.000397	0.46%
Cu 324.752†	6422.5	0.05381	mg/L	0.000208	0.05381	mg/L	0.000208	0.39%
Fe 238.204†	524372.7	129.61	mg/L	0.118	129.61	mg/L	0.118	0.09%
Mn 257.610†	505242.7	1.6890	mg/L	0.00408	1.6890	mg/L	0.00408	0.24%
Ni 231.604†	1934.5	0.08592	mg/L	0.000295	0.08592	mg/L	0.000295	0.34%
Pb 220.353†	1263.4	0.26614	mg/L	0.001678	0.26614	mg/L	0.001678	0.63%
Pb 217.000†	362.2	0.34664	mg/L	0.003047	0.34664	mg/L	0.003047	0.88%
Se 203.985†	14.6	0.02149	mg/L	0.017469	0.02149	mg/L	0.017469	81.28%
Se 196.026†	-47.8	-0.06483	mg/L	0.012177	-0.06483	mg/L	0.012177	18.78%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7121.2	0.30023	mg/L	0.001933	0.30023	mg/L	0.001933	0.64%

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Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/3/2014 10:41:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36012.3	101.37	%	0.591				0.58%
Y 371.029	644966.7	100.41	%	1.052				1.05%
Ag 328.068†	45140.9	0.48432	mg/L	0.000584	0.48432	mg/L	0.000584	0.12%
QC value within limits for Ag 328.068 Recovery = 96.86%								
As 188.979†	307.4	0.48686	mg/L	0.009285	0.48686	mg/L	0.009285	1.91%
QC value within limits for As 188.979 Recovery = 97.37%								
As 193.696†	373.1	0.48658	mg/L	0.009003	0.48658	mg/L	0.009003	1.85%
Ba 233.527†	27095.4	0.48888	mg/L	0.000947	0.48888	mg/L	0.000947	0.19%
QC value within limits for Ba 233.527 Recovery = 97.78%								
Cd 228.802†	5945.6	0.48906	mg/L	0.006921	0.48906	mg/L	0.006921	1.42%
QC value within limits for Cd 228.802 Recovery = 97.81%								
Cd 226.502†	20168.8	0.49477	mg/L	0.000589	0.49477	mg/L	0.000589	0.12%
Cr 267.716†	13842.5	0.48979	mg/L	0.000665	0.48979	mg/L	0.000665	0.14%
Cr 205.560†	12683.9	0.48628	mg/L	0.007353	0.48628	mg/L	0.007353	1.51%
QC value within limits for Cr 205.560 Recovery = 97.26%								
Cu 324.752†	58362.3	0.48902	mg/L	0.000764	0.48902	mg/L	0.000764	0.16%

QC value within limits for Cu 324.752 Recovery = 97.80%

Fe 238.204†	2022.5	0.49991 mg/L	0.007155	0.49991 mg/L	0.007155	1.43%
QC value within limits for Fe 238.204 Recovery = 99.98%						
Mn 257.610†	148990.7	0.49806 mg/L	0.000884	0.49806 mg/L	0.000884	0.18%
QC value within limits for Mn 257.610 Recovery = 99.61%						
Ni 231.604†	11064.8	0.49142 mg/L	0.000861	0.49142 mg/L	0.000861	0.18%
QC value within limits for Ni 231.604 Recovery = 98.28%						
Pb 220.353†	2350.0	0.49502 mg/L	0.006759	0.49502 mg/L	0.006759	1.37%
QC value within limits for Pb 220.353 Recovery = 99.00%						
Pb 217.000†	517.9	0.49560 mg/L	0.002328	0.49560 mg/L	0.002328	0.47%
Se 203.985†	323.3	0.47660 mg/L	0.004331	0.47660 mg/L	0.004331	0.91%
Se 196.026†	363.3	0.49308 mg/L	0.016420	0.49308 mg/L	0.016420	3.33%
QC value within limits for Se 196.026 Recovery = 98.62%						
Zn 206.200†	11740.5	0.49498 mg/L	0.001539	0.49498 mg/L	0.001539	0.31%
QC value within limits for Zn 206.200 Recovery = 99.00%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/3/2014 10:42:45 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36819.2	103.64	%	1.443				1.39%
Y 371.029	657698.8	102.39	%	0.233				0.23%
Ag 328.068†	53.0	0.00057	mg/L	0.000141	0.00057	mg/L	0.000141	24.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.5	-0.00234	mg/L	0.004505	-0.00234	mg/L	0.004505	192.24%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	2.9	0.00372	mg/L	0.002625	0.00372	mg/L	0.002625	70.46%
Ba 233.527†	13.1	0.00024	mg/L	0.000172	0.00024	mg/L	0.000172	72.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-1.5	-0.00012	mg/L	0.000314	-0.00012	mg/L	0.000314	260.30%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	9.8	0.00024	mg/L	0.000017	0.00024	mg/L	0.000017	7.00%
Cr 267.716†	-5.6	-0.00020	mg/L	0.000245	-0.00020	mg/L	0.000245	123.59%
Cr 205.560†	-0.6	-0.00002	mg/L	0.000548	-0.00002	mg/L	0.000548	>999.9%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-83.5	-0.00070	mg/L	0.000300	-0.00070	mg/L	0.000300	42.82%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	-2.0	-0.00050	mg/L	0.000451	-0.00050	mg/L	0.000451	90.30%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Mn 257.610†	-10.5	-0.00004	mg/L	0.000074	-0.00004	mg/L	0.000074	210.80%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Ni 231.604†	10.8	0.00048	mg/L	0.000198	0.00048	mg/L	0.000198	41.17%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.4	-0.00030	mg/L	0.001537	-0.00030	mg/L	0.001537	512.80%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	1.1	0.00103	mg/L	0.005044	0.00103	mg/L	0.005044	490.24%
Se 203.985†	2.7	0.00404	mg/L	0.022090	0.00404	mg/L	0.022090	546.88%
Se 196.026†	7.1	0.00968	mg/L	0.008485	0.00968	mg/L	0.008485	87.64%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	10.4	0.00044	mg/L	0.000188	0.00044	mg/L	0.000188	43.15%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCV CAT

Autosampler Location: 3
Date Collected: 7/3/2014 10:44:25 AM

Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

EL 7/5/14

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	34409.3	96.857	%	0.5609				0.58%
Y 371.029	621648.1	96.779	%	0.8448				0.87%
Ag 328.068†	46.3	0.00050	mg/L	0.000431	0.00050	mg/L	0.000431	86.72%
As 188.979†	-2.1	-0.00327	mg/L	0.003884	-0.00327	mg/L	0.003884	118.90%
As 193.696†	0.8	0.00108	mg/L	0.007812	0.00108	mg/L	0.007812	722.62%
Ba 233.527†	11.8	0.00021	mg/L	0.000117	0.00021	mg/L	0.000117	55.05%
Cd 228.802†	0.0	0.00000	mg/L	0.000018	0.00000	mg/L	0.000018	438.94%
Cd 226.502†	2.0	0.00005	mg/L	0.000106	0.00005	mg/L	0.000106	221.56%
Cr 267.716†	1.1	0.00004	mg/L	0.000256	0.00004	mg/L	0.000256	668.13%
Cr 205.560†	-30.9	-0.00118	mg/L	0.000930	-0.00118	mg/L	0.000930	78.54%
Cu 324.752†	-296.8	-0.00249	mg/L	0.000852	-0.00249	mg/L	0.000852	34.25%
Fe 238.204†	23.2	0.00574	mg/L	0.003440	0.00574	mg/L	0.003440	59.98%
Mn 257.610†	25.2	0.00008	mg/L	0.000105	0.00008	mg/L	0.000105	125.22%
Ni 231.604†	20.3	0.00090	mg/L	0.000449	0.00090	mg/L	0.000449	49.86%
Pb 220.353†	3.0	0.00064	mg/L	0.000717	0.00064	mg/L	0.000717	112.74%
Pb 217.000†	12.7	0.01213	mg/L	0.007111	0.01213	mg/L	0.007111	58.64%
Se 203.985†	-11.3	-0.01661	mg/L	0.009364	-0.01661	mg/L	0.009364	56.38%
Se 196.026†	4.6	0.00624	mg/L	0.008541	0.00624	mg/L	0.008541	136.83%
Zn 206.200†	40.8	0.00172	mg/L	0.000284	0.00172	mg/L	0.000284	16.49%

All analyte(s) passed QC.

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Sequence No.: 29
Sample ID: 1407066-006A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 110
Date Collected: 7/3/2014 10:46:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-006A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-006A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	39222.2	110.40	%	0.794				0.72%
Y 371.029	650410.0	101.26	%	0.603				0.60%
Ag 328.068†	-236.5	-0.00254	mg/L	0.000137	-0.00254	mg/L	0.000137	5.42%
As 188.979†	38.1	0.06030	mg/L	0.006791	0.06030	mg/L	0.006791	11.26%
As 193.696†	-99.4	-0.12969	mg/L	0.014578	-0.12969	mg/L	0.014578	11.24%
Ba 233.527†	126466.1	2.2818	mg/L	0.00594	2.2818	mg/L	0.00594	0.26%
Cd 228.802†	-8.9	-0.00073	mg/L	0.000438	-0.00073	mg/L	0.000438	60.07%
Cd 226.502†	-228.1	-0.00560	mg/L	0.000226	-0.00560	mg/L	0.000226	4.03%
Cr 267.716†	3322.1	0.11755	mg/L	0.000337	0.11755	mg/L	0.000337	0.29%
Cr 205.560†	2630.8	0.10086	mg/L	0.000830	0.10086	mg/L	0.000830	0.82%
Cu 324.752†	8225.5	0.06892	mg/L	0.000162	0.06892	mg/L	0.000162	0.24%
Fe 238.204†	520314.9	128.61	mg/L	0.199	128.61	mg/L	0.199	0.15%
Mn 257.610†	512752.0	1.7141	mg/L	0.00340	1.7141	mg/L	0.00340	0.20%
Ni 231.604†	1946.5	0.08645	mg/L	0.000273	0.08645	mg/L	0.000273	0.32%
Pb 220.353†	3698.1	0.77900	mg/L	0.006216	0.77900	mg/L	0.006216	0.80%
Pb 217.000†	948.9	0.90808	mg/L	0.010985	0.90808	mg/L	0.010985	1.21%
Se 203.985†	2.7	0.00393	mg/L	0.015327	0.00393	mg/L	0.015327	389.90%
Se 196.026†	-39.4	-0.05349	mg/L	0.016666	-0.05349	mg/L	0.016666	31.16%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Zn 206.200†	7784.0	0.32818 mg/L	0.001835	0.32818 mg/L	0.001835	0.56%

Sequence No.: 30
Sample ID: 1407066-007A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 111
Date Collected: 7/3/2014 10:47:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407066-007A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1407066-007A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	43673.6	122.93	%	1.484				1.21%
Internal Standard Check greater than the upper limit for Y 371.029 R. Recovery = 122.9%								
Y 371.029	744410.8	115.89	%	0.324				0.28%
Ag 328.068†	-209.4	-0.00225	mg/L	0.000411	-0.00225	mg/L	0.000411	18.28%
As 188.979†	36.5	0.05781	mg/L	0.006580	0.05781	mg/L	0.006580	11.38%
As 193.696†	-153.7	-0.20050	mg/L	0.010485	-0.20050	mg/L	0.010485	5.23%
Ba 233.527†	323123.9	5.8301	mg/L	0.00544	5.8301	mg/L	0.00544	0.09%
Cd 228.802†	0.9	0.00008	mg/L	0.000261	0.00008	mg/L	0.000261	334.17%
Cd 226.502†	-458.1	-0.01124	mg/L	0.000724	-0.01124	mg/L	0.000724	6.44%
Cr 267.716†	4935.4	0.17463	mg/L	0.000581	0.17463	mg/L	0.000581	0.33%
Cr 205.560†	3900.0	0.14952	mg/L	0.000530	0.14952	mg/L	0.000530	0.35%
Cu 324.752†	12479.4	0.10456	mg/L	0.000492	0.10456	mg/L	0.000492	0.47%
Fe 238.204†	921900.0	227.87	mg/L	3.401	227.87	mg/L	3.401	1.49%
Mn 257.610†	1034599.3	3.4586	mg/L	0.00335	3.4586	mg/L	0.00335	0.10%
Ni 231.604†	3531.5	0.15684	mg/L	0.000333	0.15684	mg/L	0.000333	0.21%
Pb 220.353†	297.7	0.06271	mg/L	0.001627	0.06271	mg/L	0.001627	2.59%
Pb 217.000†	152.9	0.14638	mg/L	0.008016	0.14638	mg/L	0.008016	5.48%
Se 203.985†	-23.7	-0.03489	mg/L	0.006494	-0.03489	mg/L	0.006494	18.61%
Se 196.026†	-44.1	-0.05990	mg/L	0.012608	-0.05990	mg/L	0.012608	21.05%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	12241.1	0.51609	mg/L	0.001750	0.51609	mg/L	0.001750	0.34%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 31
Sample ID: 1406C85-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 112
Date Collected: 7/3/2014 10:48:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406C85-001A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1406C85-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	37092.8	104.41	%	0.300				0.29%
Y 371.029	617043.4	96.062	%	0.4903				0.51%
Ag 328.068†	-235.4	-0.00253	mg/L	0.000188	-0.00253	mg/L	0.000188	7.45%
As 188.979†	15.6	0.02465	mg/L	0.007714	0.02465	mg/L	0.007714	31.30%
As 193.696†	-131.7	-0.17181	mg/L	0.012882	-0.17181	mg/L	0.012882	7.50%
Ba 233.527†	75727.0	1.3663	mg/L	0.00243	1.3663	mg/L	0.00243	0.18%
Cd 228.802†	-8.0	-0.00066	mg/L	0.000177	-0.00066	mg/L	0.000177	26.89%
Cd 226.502†	-169.4	-0.00416	mg/L	0.000044	-0.00416	mg/L	0.000044	1.06%
Cr 267.716†	3590.8	0.12705	mg/L	0.001331	0.12705	mg/L	0.001331	1.05%
Cr 205.560†	2909.1	0.11153	mg/L	0.001419	0.11153	mg/L	0.001419	1.27%

Nebulizer Parameters: 1406C96-001APS

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1406C96-001APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	35855.3	100.93	%	0.902				0.89%
Y 371.029	630417.3	98.144	%	0.7159				0.73%
Ag 328.068†	8542.5	0.09165	mg/L	0.000643	0.09165	mg/L	0.000643	0.70%
As 188.979†	348.8	0.55256	mg/L	0.017992	0.55256	mg/L	0.017992	3.26%
As 193.696†	203.0	0.26476	mg/L	0.003447	0.26476	mg/L	0.003447	1.30%
Ba 233.527†	179512.2	3.2389	mg/L	0.00809	3.2389	mg/L	0.00809	0.25%
Cd 228.802†	5505.9	0.45289	mg/L	0.002599	0.45289	mg/L	0.002599	0.57%
Cd 226.502†	16814.6	0.41249	mg/L	0.002058	0.41249	mg/L	0.002058	0.50%
Cr 267.716†	15477.6	0.54764	mg/L	0.002951	0.54764	mg/L	0.002951	0.54%
Cr 205.560†	13851.4	0.53104	mg/L	0.003341	0.53104	mg/L	0.003341	0.63%
Cu 324.752†	59710.2	0.50031	mg/L	0.000493	0.50031	mg/L	0.000493	0.10%
Fe 238.204†	401383.1	99.214	mg/L	0.1403	99.214	mg/L	0.1403	0.14%
Mn 257.610†	386085.8	1.2906	mg/L	0.00202	1.2906	mg/L	0.00202	0.16%
Ni 231.604†	12612.0	0.56014	mg/L	0.002055	0.56014	mg/L	0.002055	0.37%
Pb 220.353†	1954.6	0.41173	mg/L	0.003186	0.41173	mg/L	0.003186	0.77%
Pb 217.000†	567.2	0.54280	mg/L	0.008459	0.54280	mg/L	0.008459	1.56%
Se 203.985†	373.2	0.55018	mg/L	0.024616	0.55018	mg/L	0.024616	4.47%
Se 196.026†	286.9	0.38942	mg/L	0.003043	0.38942	mg/L	0.003043	0.78%
Zn 206.200†	15754.8	0.66423	mg/L	0.004559	0.66423	mg/L	0.004559	0.69%

Matrix Recovery Check: 1406C96-001APS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Fe 238.204	101.34	99.214	0.140	mg/L	-325.1
Ag 328.068	0.09546	0.09165	0.001	mg/L	96.2
As 188.979	0.56657	0.55256	0.018	mg/L	97.2
As 193.696	0.29693	0.26476	0.003	mg/L	93.6
Ba 233.527	3.3857	3.2389	0.008	mg/L	70.7
Cd 228.802	0.49816	0.45289	0.003	mg/L	90.9
Cd 226.502	0.49460	0.41249	0.002	mg/L	83.6
Cr 267.716	0.62373	0.54764	0.003	mg/L	84.8
Cr 205.560	0.60976	0.53104	0.003	mg/L	84.3
Cu 324.752	0.53933	0.50031	0.000	mg/L	92.2
Mn 257.610	1.3979	1.2906	0.002	mg/L	78.6
Ni 231.604	0.66796	0.56014	0.002	mg/L	78.4
Pb 220.353	0.50253	0.41173	0.003	mg/L	81.8
Pb 217.000	0.61040	0.54280	0.008	mg/L	86.5
Se 203.985	0.61055	0.55018	0.025	mg/L	87.9
Se 196.026	0.42859	0.38942	0.003	mg/L	92.2
Zn 206.200	0.76352	0.66423	0.005	mg/L	80.1

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/3/2014 11:00:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	233.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	35958.3	101.22	%	0.979				0.97%

Y 371.029	633406.1	98.610 %	0.8786			0.89%
Ag 328.068†	45226.9	0.48524 mg/L	0.000925	0.48524 mg/L	0.000925	0.19%
QC value within limits for Ag 328.068 Recovery = 97.05%						
As 188.979†	313.4	0.49645 mg/L	0.006239	0.49645 mg/L	0.006239	1.26%
QC value within limits for As 188.979 Recovery = 99.29%						
As 193.696†	383.3	0.49995 mg/L	0.003826	0.49995 mg/L	0.003826	0.77%
Ba 233.527†	27353.8	0.49354 mg/L	0.000233	0.49354 mg/L	0.000233	0.05%
QC value within limits for Ba 233.527 Recovery = 98.71%						
Cd 228.802†	6009.9	0.49434 mg/L	0.003205	0.49434 mg/L	0.003205	0.65%
QC value within limits for Cd 228.802 Recovery = 98.87%						
Cd 226.502†	20360.7	0.49948 mg/L	0.000019	0.49948 mg/L	0.000019	0.00%
Cr 267.716†	13926.4	0.49276 mg/L	0.000759	0.49276 mg/L	0.000759	0.15%
Cr 205.560†	12800.2	0.49074 mg/L	0.003122	0.49074 mg/L	0.003122	0.64%
QC value within limits for Cr 205.560 Recovery = 98.15%						
Cu 324.752†	58679.7	0.49167 mg/L	0.000812	0.49167 mg/L	0.000812	0.17%
QC value within limits for Cu 324.752 Recovery = 98.33%						
Fe 238.204†	2006.7	0.49601 mg/L	0.006015	0.49601 mg/L	0.006015	1.21%
QC value within limits for Fe 238.204 Recovery = 99.20%						
Mn 257.610†	150304.6	0.50245 mg/L	0.001002	0.50245 mg/L	0.001002	0.20%
QC value within limits for Mn 257.610 Recovery = 100.49%						
Ni 231.604†	11164.1	0.49583 mg/L	0.001310	0.49583 mg/L	0.001310	0.26%
QC value within limits for Ni 231.604 Recovery = 99.17%						
Pb 220.353†	2364.7	0.49812 mg/L	0.004457	0.49812 mg/L	0.004457	0.89%
QC value within limits for Pb 220.353 Recovery = 99.62%						
Pb 217.000†	513.7	0.49161 mg/L	0.001199	0.49161 mg/L	0.001199	0.24%
Se 203.985†	334.4	0.49302 mg/L	0.025201	0.49302 mg/L	0.025201	5.11% 2
Se 196.026†	364.2	0.49427 mg/L	0.011391	0.49427 mg/L	0.011391	2.30%
QC value within limits for Se 196.026 Recovery = 98.85%						
Zn 206.200†	11833.2	0.49889 mg/L	0.001077	0.49889 mg/L	0.001077	0.22%
QC value within limits for Zn 206.200 Recovery = 99.78%						

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/3/2014 11:01:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	36547.4	102.87	%	0.703				0.68%
Y 371.029	645826.2	100.54	%	0.071				0.07%
Ag 328.068†	24.4	0.00026	mg/L	0.000290	0.00026	mg/L	0.000290	110.81%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.7	-0.00118	mg/L	0.002583	-0.00118	mg/L	0.002583	219.44%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.0	-0.00257	mg/L	0.006414	-0.00257	mg/L	0.006414	249.85%
Ba 233.527†	14.1	0.00025	mg/L	0.000279	0.00025	mg/L	0.000279	109.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.2	0.00010	mg/L	0.000210	0.00010	mg/L	0.000210	207.56%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	10.1	0.00025	mg/L	0.000066	0.00025	mg/L	0.000066	26.41%
Cr 267.716†	-2.6	-0.00009	mg/L	0.000100	-0.00009	mg/L	0.000100	108.36%
Cr 205.560†	9.6	0.00037	mg/L	0.000571	0.00037	mg/L	0.000571	154.65%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-216.9	-0.00182	mg/L	0.000063	-0.00182	mg/L	0.000063	3.46%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	-5.7	-0.00142	mg/L	0.003156	-0.00142	mg/L	0.003156	222.30%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Mn 257.610†	-3.6	-0.00001	mg/L	0.000018	-0.00001	mg/L	0.000018	145.91%
QC value within limits for Mn 257.610 Recovery = Not calculated								

Ni 231.604†	11.2	0.00050 mg/L	0.000540	0.00050 mg/L	0.000540	108.50%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-0.5	-0.00011 mg/L	0.000962	-0.00011 mg/L	0.000962	885.43%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	7.1	0.00678 mg/L	0.007165	0.00678 mg/L	0.007165	105.72%
Se 203.985†	-4.2	-0.00622 mg/L	0.005786	-0.00622 mg/L	0.005786	93.08%
Se 196.026†	-1.1	-0.00151 mg/L	0.013235	-0.00151 mg/L	0.013235	873.83%
QC value within limits for Se 196.026 Recovery = Not calculated						
Zn 206.200†	2.9	0.00012 mg/L	0.000115	0.00012 mg/L	0.000115	92.76%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/3/2014 11:03:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

EC 7/15/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	35653.2	100.36	%	0.344				0.34%
Y 371.029	638713.0	99.436	%	0.9817				0.99%
Ag 328.068†	37.2	0.00040	mg/L	0.000437	0.00040	mg/L	0.000437	109.40%
As 188.979†	-3.8	-0.00598	mg/L	0.005326	-0.00598	mg/L	0.005326	89.06%
As 193.696†	1.8	0.00237	mg/L	0.000588	0.00237	mg/L	0.000588	24.85%
Ba 233.527†	9.6	0.00017	mg/L	0.000403	0.00017	mg/L	0.000403	232.05%
Cd 228.802†	-2.0	-0.00016	mg/L	0.000097	-0.00016	mg/L	0.000097	59.24%
Cd 226.502†	1.1	0.00003	mg/L	0.000173	0.00003	mg/L	0.000173	619.91%
Cr 267.716†	1.4	0.00005	mg/L	0.000107	0.00005	mg/L	0.000107	211.90%
Cr 205.560†	-22.3	-0.00085	mg/L	0.000770	-0.00085	mg/L	0.000770	90.16%
Cu 324.752†	-181.2	-0.00152	mg/L	0.000511	-0.00152	mg/L	0.000511	33.65%
Fe 238.204†	18.2	0.00449	mg/L	0.001700	0.00449	mg/L	0.001700	37.88%
Mn 257.610†	47.0	0.00016	mg/L	0.000073	0.00016	mg/L	0.000073	46.50%
Ni 231.604†	20.0	0.00089	mg/L	0.000156	0.00089	mg/L	0.000156	17.59%
Pb 220.353†	4.3	0.00090	mg/L	0.000460	0.00090	mg/L	0.000460	51.26%
Pb 217.000†	7.5	0.00718	mg/L	0.005665	0.00718	mg/L	0.005665	78.91%
Se 203.985†	-1.0	-0.00142	mg/L	0.011074	-0.00142	mg/L	0.011074	777.48%
Se 196.026†	1.5	0.00199	mg/L	0.007442	0.00199	mg/L	0.007442	373.97%
Zn 206.200†	43.7	0.00184	mg/L	0.000080	0.00184	mg/L	0.000080	4.33%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1406D02-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 120
Date Collected: 7/3/2014 11:05:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1406D02-001A

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 1406D02-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	34590.6	97.367	%	0.7572				0.78%
Y 371.029	581837.1	90.581	%	0.4054				0.45%
Ag 328.068†	-799.8	-0.00858	mg/L	0.000221	-0.00858	mg/L	0.000221	2.58%

JB 7/3/14

Analytical Report
Lab Order: **1407139**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407139

Lab ID: 1407139-001 **Collection Date:** 7/2/2014 12:17:00 PM
Client Sample ID: FFOR-CF-0016 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.8	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-002 **Collection Date:** 7/2/2014 12:28:00 PM
Client Sample ID: FFOR-CF-0017 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-003 **Collection Date:** 7/2/2014 12:40:00 PM
Client Sample ID: FFOR-CF-0018 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-004 **Collection Date:** 7/2/2014 12:50:00 PM
Client Sample ID: FFOR-CF-0019 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.9	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-005 **Collection Date:** 7/2/2014 1:43:00 PM
Client Sample ID: FFOR-CF-0020 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	14	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407139
Project: Kirtland AFB

Lab ID: 1407139-006 **Collection Date:** 7/2/2014 3:07:00 PM
Client Sample ID: FFOR-CF-0021 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	15	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-007 **Collection Date:** 7/2/2014 3:18:00 PM
Client Sample ID: FFOR-CF-0022 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	15	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-008 **Collection Date:** 7/2/2014 3:18:00 PM
Client Sample ID: FFOR-CF-0023 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-009 **Collection Date:** 7/2/2014 3:26:00 PM
Client Sample ID: FFOR-CF-0024 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	9.8	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Lab ID: 1407139-010 **Collection Date:** 7/2/2014 3:34:00 PM
Client Sample ID: FFOR-CF-0025 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	16	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407139

Lab ID: 1407139-011
Client Sample ID: FFOR-CF-0026
Collection Date: 7/2/2014 3:40:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
PERCENT MOISTURE							Analyst: cadg
Percent Moisture	11	1.0		wt%	1	R19655	7/2/2014 7:07:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:24:36 A**
Prep End Date: **7/2/2014 11:00:00 A**

Prep Batch ID: **14027** Prep Code: **5035_LOW** Technician: **Christina Gallegos** Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14027		Solid			5	0	0	5	1.000	7/2/2014	7/2/2014
LCS-14027		Solid			5	0	0	5	1.000	7/2/2014	7/2/2014
1407066-001A	FFOR-CF-0009	MeOH (Soil)			7.948	0	0	5	0.629	7/2/2014	7/2/2014
1407066-001AMS		MeOH (Soil)			7.9	0	0	5	0.633	7/2/2014	7/2/2014
1407066-001AMSD		MeOH (Soil)			7.9	0	0	5	0.633	7/2/2014	7/2/2014
1407066-002A	FFOR-CF-0010	MeOH (Soil)			6.917	0	0	5	0.723	7/2/2014	7/2/2014
1407066-003A	FFOR-CF-0011	MeOH (Soil)			8.349	0	0	5	0.599	7/2/2014	7/2/2014
1407066-004A	FFOR-CF-0012	MeOH (Soil)			8.218	0	0	5	0.608	7/2/2014	7/2/2014
1407066-005A	FFOR-CF-0013	MeOH (Soil)			7.627	0	0	5	0.656	7/2/2014	7/2/2014
1407066-006A	FFOR-CF-0014	MeOH (Soil)			6.745	0	0	5	0.741	7/2/2014	7/2/2014
1407066-007A	FFOR-CF-0015	MeOH (Soil)			6.88	0	0	5	0.727	7/2/2014	7/2/2014
1407139-001A	FFOR-CF-0016	MeOH (Soil)			6.76	0	0	5	0.740	7/2/2014	7/2/2014
1407139-001AMS		MeOH (Soil)			7.037	0	0	5	0.711	7/2/2014	7/2/2014
1407139-001AMSD		MeOH (Soil)			7.59	0	0	5	0.659	7/2/2014	7/2/2014
1407139-002A	FFOR-CF-0017	MeOH (Soil)			8.055	0	0	5	0.621	7/2/2014	7/2/2014
1407139-003A	FFOR-CF-0018	MeOH (Soil)			7.483	0	0	5	0.668	7/2/2014	7/2/2014
1407139-004A	FFOR-CF-0019	MeOH (Soil)			7.98	0	0	5	0.627	7/2/2014	7/2/2014
1407139-005A	FFOR-CF-0020	MeOH (Soil)			8.01	0	0	5	0.624	7/2/2014	7/2/2014
1407139-006A	FFOR-CF-0021	MeOH (Soil)			7.224	0	0	5	0.692	7/2/2014	7/2/2014
1407139-007A	FFOR-CF-0022	MeOH (Soil)			6.592	0	0	5	0.758	7/2/2014	7/2/2014
1407139-008A	FFOR-CF-0023	MeOH (Soil)			7.818	0	0	5	0.640	7/2/2014	7/2/2014
1407139-009A	FFOR-CF-0024	MeOH (Soil)			8.192	0	0	5	0.610	7/2/2014	7/2/2014
1407139-010A	FFOR-CF-0025	MeOH (Soil)			7.285	0	0	5	0.686	7/2/2014	7/2/2014
1407139-011A	FFOR-CF-0026	MeOH (Soil)			8.038	0	0	5	0.622	7/2/2014	7/2/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/2/2014 10:24:36 A**
Prep End Date: **7/2/2014 11:00:00 A**

Prep Batch ID: **14027** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8032	8260-5035 Low LCS	lcs/ms/msd	25970	Container-01 of 01	4	µL

Soil Moisture/Correction Factor Benchsheet

Date extracted: 7-2-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/23/2014
Start time: 7-2-14 7:07pm	Start Temp: 110C		Reviewed by: JNB 7/3/14
End time: 7-3-14 7:45am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
MeOH Kits								#VALUE!
1407139-001a	25.9	38.88	1.00	2.00	2.00	12.9800	0.0000	0.7704
1407139-001ams	26.0	40.13	1.00	2.00	2.00	14.1300	0.0000	0.7077
1407139-001amsd	25.9	39.57	1.00	2.00	2.00	13.6700	0.0000	0.7315
1407139-002a	25.9	38.96	1.00	2.00	2.00	13.0600	0.0000	0.7657
1407139-003a	25.9	40.42	1.00	2.00	2.00	14.5200	0.0000	0.6887
1407139-004a	25.9	39.94	1.00	2.00	2.00	14.0400	0.0000	0.7123
1407139-005a	25.9	40.41	1.00	2.00	2.00	14.5100	0.0000	0.6892
1407139-006a	25.9	38.80	1.00	2.00	2.00	12.9000	0.0000	0.7752
1407139-007a	26.0	40.05	1.00	2.00	2.00	14.0500	0.0000	0.7117
1407139-008a	25.9	39.86	1.00	2.00	2.00	13.9600	0.0000	0.7163
1407139-009a	25.9	29.46	1.00	2.00	2.00	3.5600	0.0000	~~2.8090~~ .7375
1407139-010a	25.9	39.62	1.00	2.00	2.00	13.7200	0.0000	0.7289
1407139-011a	25.9	39.29	1.00	2.00	2.00	13.3900	0.0000	0.7468
Low Level Soil								#VALUE!
1407139-001a	32.4	39.13				6.7600		#VALUE!
1407139-001ams	32.2	39.23				7.0370		#VALUE!
1407139-001amsd	32.3	39.88				7.5900		#VALUE!
1407139-002a	32.1	40.17				8.0550		#VALUE!
1407139-003a	32.3	39.82				7.4830		#VALUE!
1407139-004a	32.2	40.20				7.9800		#VALUE!
1407139-005a	32.3	40.28				8.0100		#VALUE!
1407139-006a	32.4	39.66				7.2240		#VALUE!
1407139-007a	31.9	38.54				6.5920		#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407139-001a

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1407139-001a $\frac{10g}{12.98g} = 0.7704$ cg 7-3-14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Soil Moisture/Correction Factor Benchsheet

Date extracted: 7-2-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/23/2014
Start time: 7-2-14 7:07pm	Start Temp: 110C		Reviewed by: JNB 7/3/13
End time: 7-3-14 7:45am	End Temp:110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1407139-008a	32.4	40.26				7.8180		#VALUE!
1407139-009a	32.0	40.22				8.1920		#VALUE!
1407139-010a	32.4	39.67				7.2850		#VALUE!
1407139-011a	32.3	40.34				8.0380		#VALUE!
Pmoist								#VALUE!
1407139-001a			1.30	21.70	20.11		7.7941	#VALUE!
1407139-002a			1.35	23.72	21.30		10.8181	#VALUE!
1407139-003a			1.30	21.98	19.80		10.5416	#VALUE!
1407139-004a			1.33	20.29	18.60		8.9135	#VALUE!
1407139-005a			1.30	24.04	20.84		14.0721	#VALUE!
1407139-006a			1.32	19.44	16.65		15.3974	#VALUE!
1407139-007a			1.32	23.34	20.07		14.8501	#VALUE!
1407139-008a			1.32	24.25	21.64		11.3825	#VALUE!
1407139-009a			1.32	20.11	18.26		9.8457	#VALUE!
1407139-010a			1.32	20.33	17.25		16.2020	#VALUE!
1407139-011a			1.33	20.65	18.57		10.7660	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407139-001a $\frac{21.7 - 20.11}{21.7 - 1.3} \times 100 = 7.7941$

cg 7-3-14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

JC 7/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407139**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407139

Lab ID: 1407139-001 **Collection Date:** 7/2/2014 12:17:00 PM
Client Sample ID: FFOR-CF-0016 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 12:31:49 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	14054	7/7/2014 12:31:49 PM
Surr: DNOP	81.2	57.9-140		%REC	1	14054	7/7/2014 12:31:49 PM

Lab ID: 1407139-002 **Collection Date:** 7/2/2014 12:28:00 PM
Client Sample ID: FFOR-CF-0017 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 2:05:27 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	14054	7/7/2014 2:05:27 PM
Surr: DNOP	79.0	57.9-140		%REC	1	14054	7/7/2014 2:05:27 PM

Lab ID: 1407139-003 **Collection Date:** 7/2/2014 12:40:00 PM
Client Sample ID: FFOR-CF-0018 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 2:37:08 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	14054	7/7/2014 2:37:08 PM
Surr: DNOP	80.7	57.9-140		%REC	1	14054	7/7/2014 2:37:08 PM

Lab ID: 1407139-004 **Collection Date:** 7/2/2014 12:50:00 PM
Client Sample ID: FFOR-CF-0019 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 3:08:28 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	14054	7/7/2014 3:08:28 PM
Surr: DNOP	77.8	57.9-140		%REC	1	14054	7/7/2014 3:08:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407139
Project: Kirtland AFB

Lab ID: 1407139-005 **Collection Date:** 7/2/2014 1:43:00 PM
Client Sample ID: FFOR-CF-0020 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14054	7/7/2014 3:40:02 PM
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dry	1	14054	7/7/2014 3:40:02 PM
Surr: DNOP	78.9	57.9-140		%REC	1	14054	7/7/2014 3:40:02 PM

Lab ID: 1407139-006 **Collection Date:** 7/2/2014 3:07:00 PM
Client Sample ID: FFOR-CF-0021 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14054	7/7/2014 4:11:36 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14054	7/7/2014 4:11:36 PM
Surr: DNOP	78.3	57.9-140		%REC	1	14054	7/7/2014 4:11:36 PM

Lab ID: 1407139-007 **Collection Date:** 7/2/2014 3:18:00 PM
Client Sample ID: FFOR-CF-0022 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14054	7/7/2014 4:43:13 PM
Motor Oil Range Organics (MRO)	ND	58		mg/Kg-dry	1	14054	7/7/2014 4:43:13 PM
Surr: DNOP	70.0	57.9-140		%REC	1	14054	7/7/2014 4:43:13 PM

Lab ID: 1407139-008 **Collection Date:** 7/2/2014 3:18:00 PM
Client Sample ID: FFOR-CF-0023 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 5:14:53 PM
Motor Oil Range Organics (MRO)	ND	56		mg/Kg-dry	1	14054	7/7/2014 5:14:53 PM
Surr: DNOP	75.4	57.9-140		%REC	1	14054	7/7/2014 5:14:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407139
Project: Kirtland AFB

Lab ID: 1407139-009 **Collection Date:** 7/2/2014 3:26:00 PM
Client Sample ID: FFOR-CF-0024 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 7:20:54 PM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	14054	7/7/2014 7:20:54 PM
Surr: DNOP	85.7	57.9-140		%REC	1	14054	7/7/2014 7:20:54 PM

Lab ID: 1407139-010 **Collection Date:** 7/2/2014 3:34:00 PM
Client Sample ID: FFOR-CF-0025 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14054	7/7/2014 8:54:25 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14054	7/7/2014 8:54:25 PM
Surr: DNOP	87.3	57.9-140		%REC	1	14054	7/7/2014 8:54:25 PM

Lab ID: 1407139-011 **Collection Date:** 7/2/2014 3:40:00 PM
Client Sample ID: FFOR-CF-0026 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14054	7/7/2014 10:27:26 PM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	14054	7/7/2014 10:27:26 PM
Surr: DNOP	76.8	57.9-140		%REC	1	14054	7/7/2014 10:27:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 7:46:40 A**
Prep End Date:

Reviewed By: BN 7-7-14 BN 7-7-14

Prep Batch ID: **14056** Prep Code: **8015_S_PREP** Technician: **Janice Easley**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14056		Soil			10	0	0	10	1.000	7/3/2014	
LCS-14056		Soil			10	0	0	10	1.000	7/3/2014	
1407154-001A	1 @ 7.5' (95)	Soil			10	10.12	0	10	1.000	7/3/2014	
1407154-001AMS		Soil			10	10.03	0	10	1.000	7/3/2014	
1407154-001AMSD		Soil			10	10.04	0	10	1.000	7/3/2014	
1407154-002A	TH2 @ 8'	Soil			10	9.93	0	10	1.000	7/3/2014	
1407154-003A	TH4 @ 8'	Soil			10	10.16	0	10	1.000	7/3/2014	
1407154-004A	TH5 @ 7.5'	Soil			10	9.97	0	10	1.000	7/3/2014	
1407154-005A	TH6 @ 3'	Soil			10	10.01	0	10	1.000	7/3/2014	
1407155-001A	5PC-TB @ 5' (95)	Soil			10	9.95	0	10	1.000	7/3/2014	

7/3/14 7/3/14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

7/3/14

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
[illegible]	5,000 ppm phosal, 500ppm DNOP	LCS	25890	Container-01 of 01	100	µL
[illegible]	[illegible]	SAMP	25891	Container-01 of 01	100	µL

BN 7.7.14

Sequence Print

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	MB-14054	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14054 <D>.dat	1
6	Unknown	0	1	LCS-14054	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14054 <D>.dat	1
7	Unknown	0	1	1407139-001A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-001A <D>.dat	1
8	Unknown	0	1	1407139-001AMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-001A MS <D>.dat	1
9	Unknown	0	1	1407139-001AMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-001A MSD <D>.dat	1
10	Unknown	0	1	1407139-002A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-002A <D>.dat	1
11	Unknown	0	1	1407139-003A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-003A <D>.dat	1
12	Unknown	0	1	1407139-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-004A <D>.dat	1
13	Unknown	0	1	1407139-005A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-005A <D>.dat	1
14	Unknown	0	1	1407139-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-006A <D>.dat	1
15	Unknown	0	1	1407139-007A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-007A <D>.dat	1
16	Unknown	0	1	1407139-008A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-008A <D>.dat	1
17	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
18	Unknown	0	1	1407139-008AMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-008A MS <D>.dat	1

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BN 7-7-14

19	Unknown	0	1	1407139-008AMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-008AMSD <D>.dat	1
20	Unknown	0	1	1407139-009A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-009A <D>.dat	1
21	Unknown	0	1	1407139-009AMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-009AMS <D>.dat	1
22	Unknown	0	1	1407139-009AMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-009AMSD <D>.dat	1
23	Unknown	0	1	1407139-010A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-010A <D>.dat	1
24	Unknown	0	1	1407139-010AMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-010AMS <D>.dat	1
25	Unknown	0	1	1407139-010AMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-010AMSD <D>.dat	1
26	Unknown	0	1	1407139-011A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-011A <D>.dat	1
27	Unknown	0	1	1407139-011AMS	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-011AMS <D>.dat	1
28	Unknown	0	1	1407139-011AMSD	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407139-011AMSD <D>.dat	1
29	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
30	Unknown	0	1	1407244-003B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-003B <D>.dat	1
31	Unknown	0	1	1407244-004A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-004A <D>.dat	1
32	Unknown	0	1	1407244-005B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-005B <D>.dat	1
33	Unknown	0	1	1407244-006A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-006A <D>.dat	1
34	Unknown	0	1	1407244-007B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-007B <D>.dat	1
35	Unknown	0	1	1407244-008A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-008A <D>.dat	1
36	Unknown	0	1	1407244-009B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-009B <D>.dat	1
37	Unknown	0	1	1407244-010A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-010A <D>.dat	1

BN 7-7-14

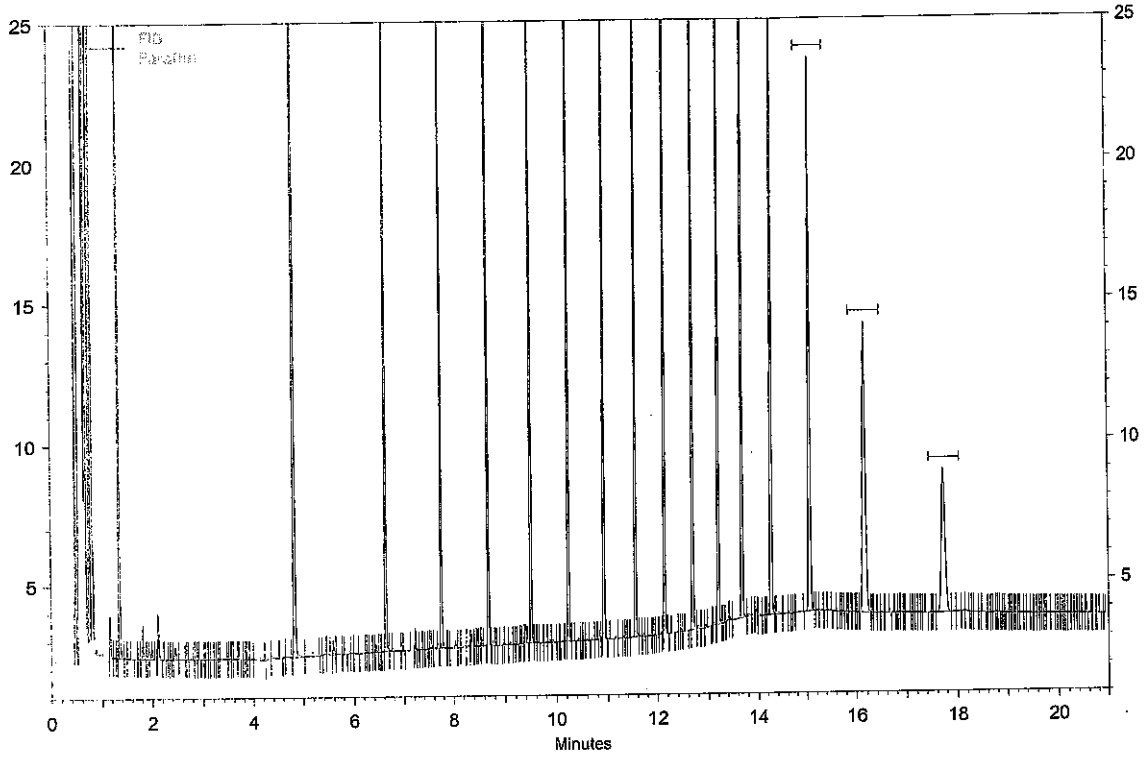
Sequence Print

38	Unknown	0	1	1407244-011B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-011B <D>.dat	1
39	Unknown	0	1	1407244-012A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-012A <D>.dat	1
40	Unknown	0	1	1407244-013B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-013B <D>.dat	1
41	Unknown	0	1	1407244-014A	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-014A <D>.dat	1
42	Unknown	0	1	1407244-015B	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1407244-015B <D>.dat	1
43	Unknown	0	1	100 PPM CCV	DRO FID #2 061114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

√ JF 7/8/14

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1473**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070714\Paraffin 07-07-14 9-21-24 AM.dat
Aquired: 7/7/2014 9:30:33 AM



FID Results

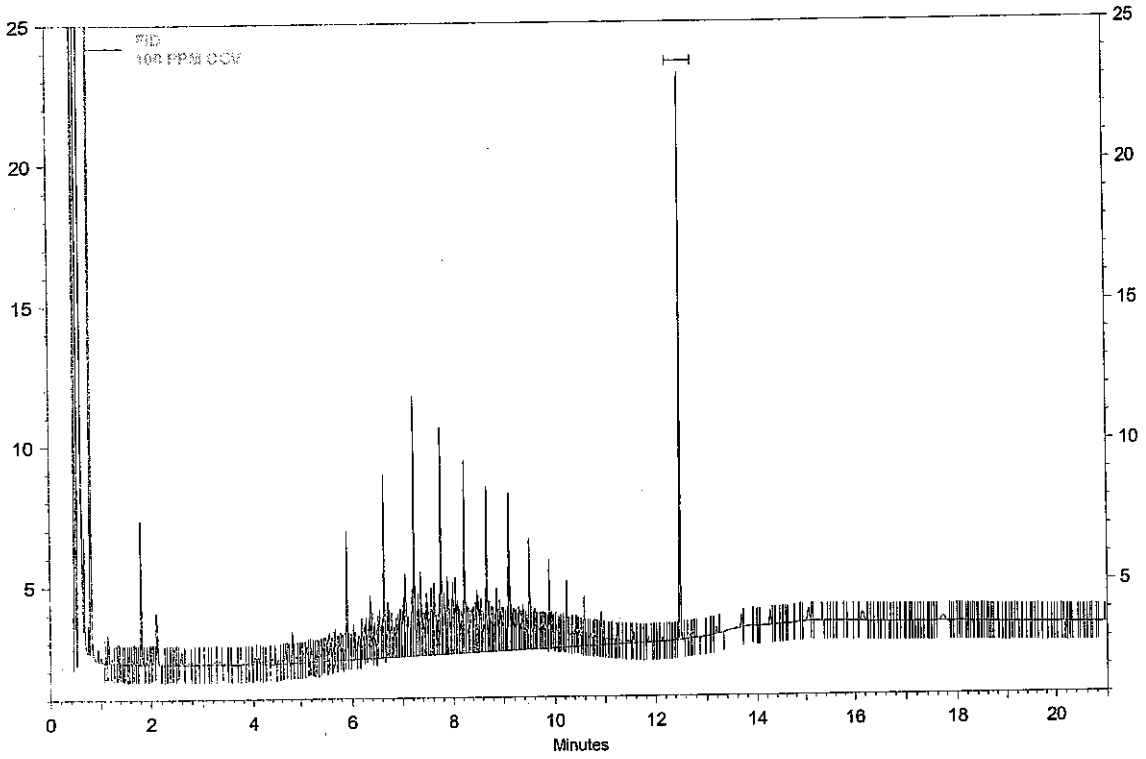
Name	Retention Time	Area	ug/ml
C08	1.35	56801	0.000
C10	4.83	70533	0.000
C12	6.64	70115	0.000
C14	7.75	71008	0.000
C16	8.67	71917	0.000
C18	9.50	71969	0.000
C20	10.24	72784	0.000
C22	10.92	71299	0.000
C24	11.55	70684	0.000
C26	12.14	72369	0.000
C28	12.68	73258	0.000
C30	13.19	73161	0.000
C32	13.67	71124	0.000
C34	14.26	61590	0.000
C36	15.05	48480	0.000
C38	16.16	36589	0.000
C40	17.72	26843	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-07-14 9-51-57 AM.dat
Aquired: 7/7/2014 10:01:19 AM



FID Results

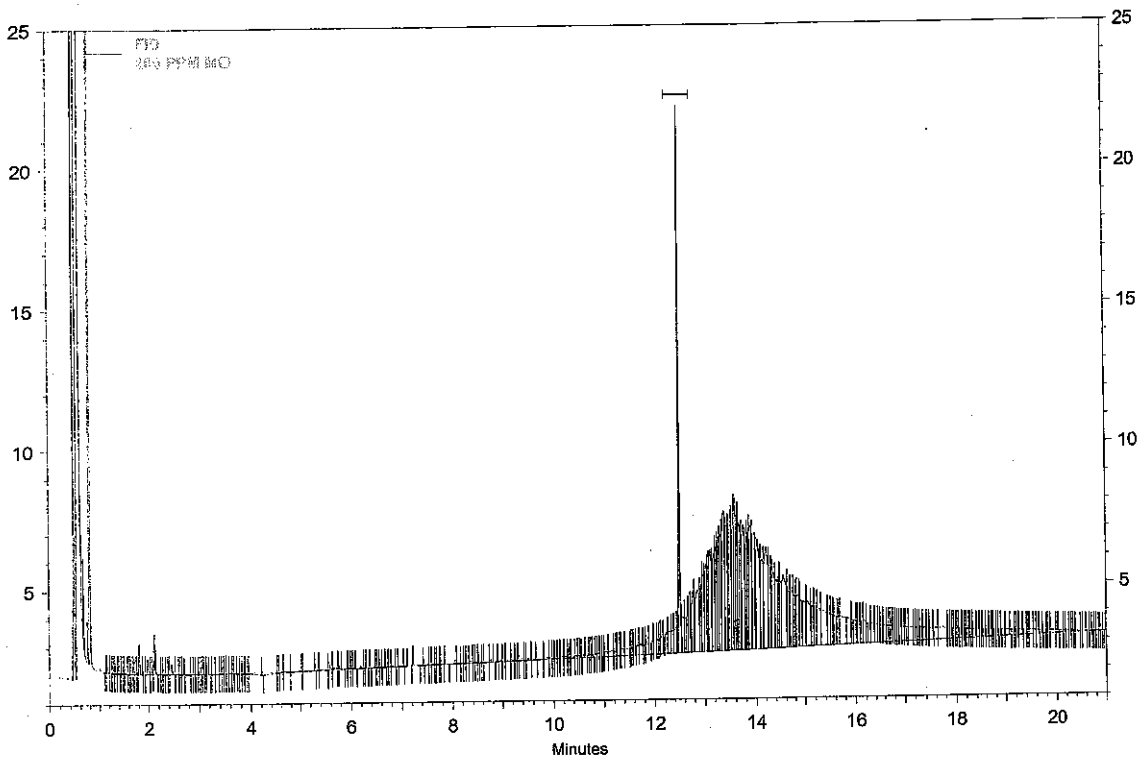
Name	Retention Time	Area	ug/ml
DNOP	12.49	22681	8.668
DRO		324194	103.133
MRO		8190	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070714\200 PPM MO 07-07-14 10-22-26 AM.dat
Aquired: 7/7/2014 10:32:07 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	24889	9.526
DRO		28021	5.085
MRO		477189	182.234

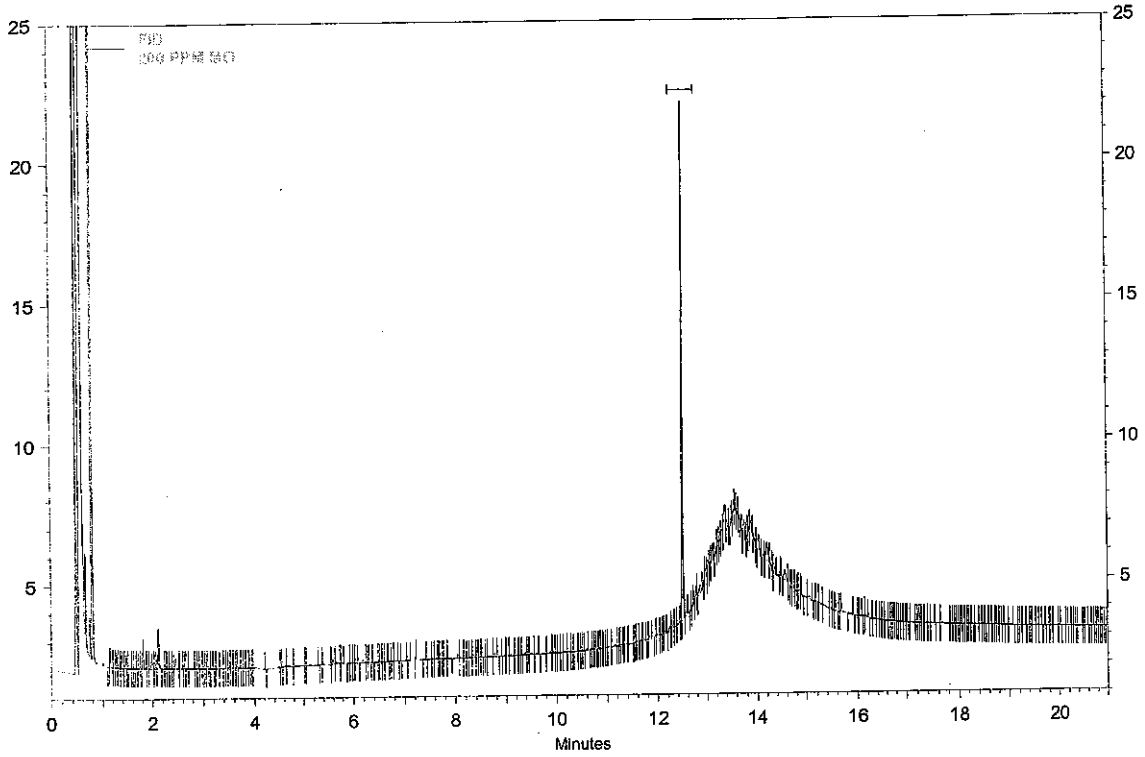
Analyst BW

Reviewed By

9.526
−7.971
1.555
+182.234
183.789 x100
200
=91.89% ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070714\200 PPM MO 07-07-14 10-22-26 AM.dat
Aquired: 7/7/2014 10:32:07 AM



FID Results

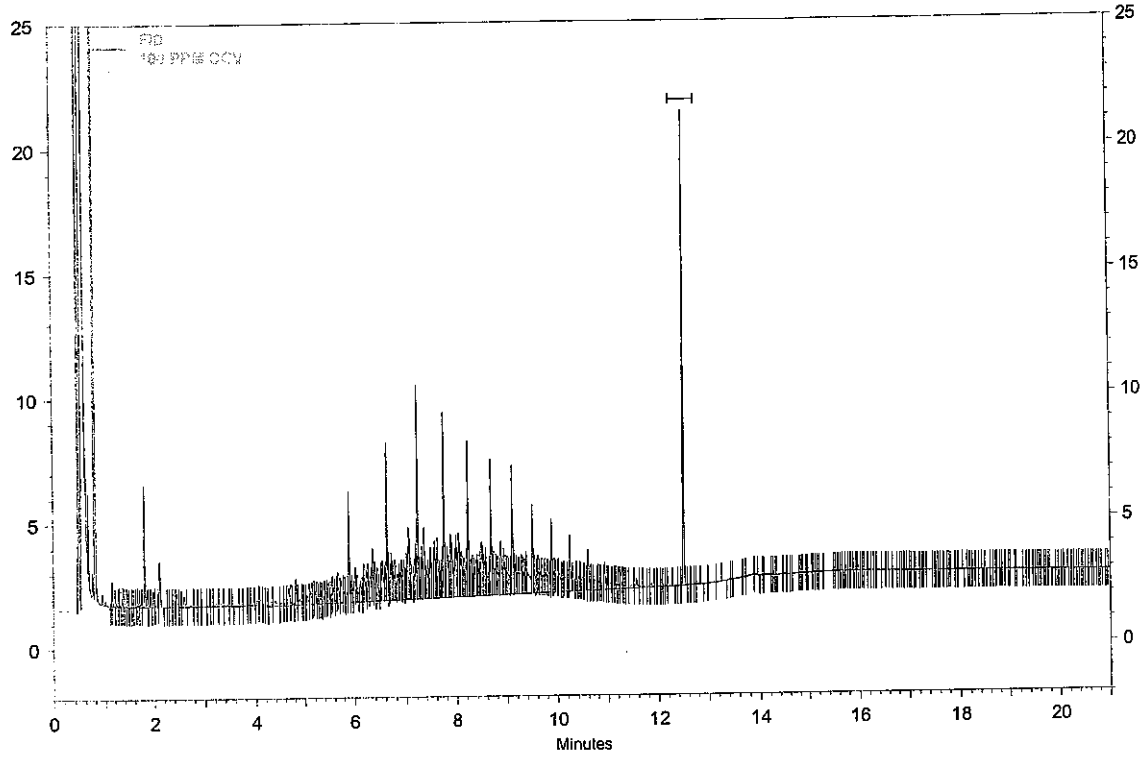
Name	Retention Time	Area	ug/ml
DNOP	12.49	20886	7.971
DRO		6256	0.000
MRO		19792	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 07-07-14 5-36-05 PM.dat
Aquired: 7/7/2014 5:46:30 PM



FID Results

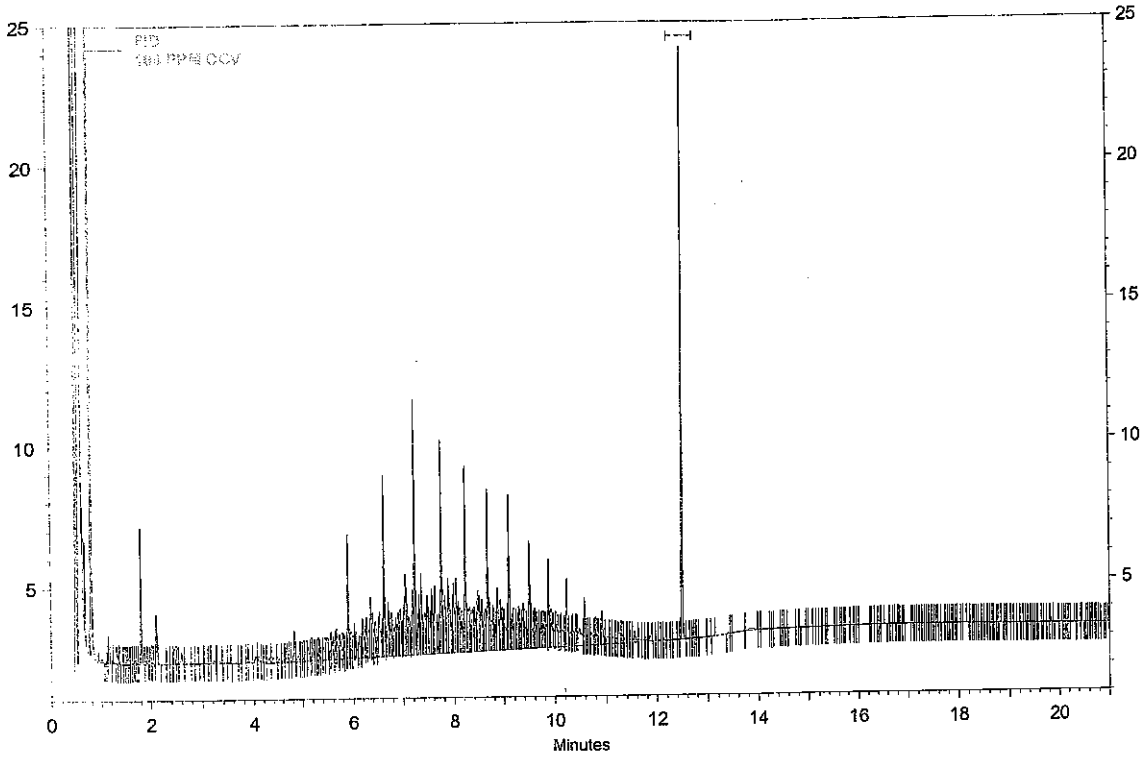
Name	Retention Time	Area	ug/ml
DNOP	12.49	21194	8.090
DRO		310523	98.613
MRO		2264	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\070814\100 PPM CCV 07-08-14 7-03-30 AM.dat
Aquired: 7/8/2014 7:12:55 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.49	23261	8.894
DRO		318920	101.390
MRO		2792	0.000

Analyst BN

Reviewed By

Calibration Summary

Instrument: FID#2 Date: 06/10/14

Method: 8015D

Calibration Name: DRO FID#2 061014, met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☑	☐	☐	☑	
MRO	☑	☐	☐	☑	
DNOP (Surr)	N/A	N/A	☐	☑	

Additional Notes:

Analyst: Jarod Easley

QA: John Caldwell

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1000 PPM MO	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO<D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 041114.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

TV
6.11.14

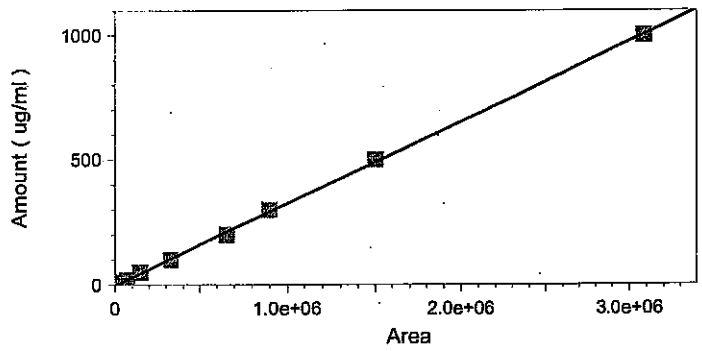
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000290499 RF StDev: 6.74961e-005 RF %RSD: 23.2346
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -1.55824e-012x^2 + 0.000331597x - 4.20499
Goodness of fit (r^2): 0.999542 ✓

6/11/14

Group: DRO -- ESTD -- FID



JC 6.11.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	33465	35387	71554	149816	328395
RF	0.000119527	0.00028258965	0.000279509181	0.000333742724	0.0003045113
Last Area	864933513	156696	876625	408608	35434462
Residual	-2.89017	2.47271	0.485855	4.56138	-4.52186
Rep StDev					
Rep %RSD					
Rep 1 Area	33465	35387	71554	149816	328395
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 06-10-14 10-37-48 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 06-10-14 11-01-02 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 06-10-14 11-30-47 AM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 06-10-14 12-00-17 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 06-10-14 12-30-17 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014 8:18:28 AM	6/11/2014 8:18:44 AM	6/11/2014 8:18:56 AM	6/11/2014 8:19:08 AM	6/11/2014 8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:58 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	657869	900062	1501075	3084596
RF	0.000304011	0.00033331037	0.000333094615	0.000324191563
	892945252	1952154	52554	498105
Last Area				
Residual	-13.2682	7.00919	9.96362	-3.81251
Rep StDev				
Rep %RSD				
Rep 1 Area	657869	900062	1501075	3084596
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

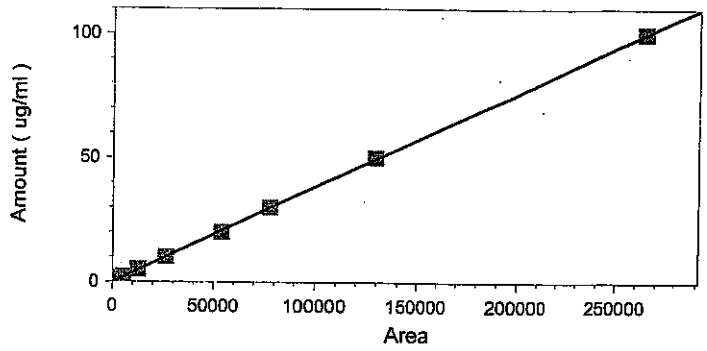
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000378339 RF StDev: 1.07205e-005 RF %RSD: 2.83356
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.58389e-011x^2 + 0.000390628x - 0.168023
Goodness of fit (r^2): 0.999894 ✓

JR 6/10/14

Peak: DNOP -- ESTD -- FID



JR 6.11.14

	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	1038	2715	5566	12714	26459
RF	0.000385356	0.00036832412	0.000359324469	0.000393267264	0.0003779432
	454720617	5230203	996407	432909	32926414
Last Area					
Residual	0.1626	0.107806	-0.0047928	0.208987	-0.135515
Rep StDev					
Rep %RSD					
Rep 1 Area	1038	2715	5566	12714	26459
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	06-10-14	06-10-14	06-10-14	06-10-14	06-10-14
	10-37-48	11-01-02	11-30-47	12-00-17	12-30-17
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/11/2014	6/11/2014	6/11/2014	6/11/2014	6/11/2014
	8:18:28 AM	8:18:44 AM	8:18:56 AM	8:19:08 AM	8:19:20 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:21:31 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	53946	77805	129208	264869
RF	0.000370741	0.00038557933	0.000386972942	0.000377545126
Last Area	111481852	2947754	851836	081195
Residual	-0.771401	0.0526954	0.461015	-0.0813953
Rep StDev				
Rep %RSD				
Rep 1 Area	53946	77805	129208	264869
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 06-10-14 1-00-02 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 06-10-14 1-30-04 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 06-10-14 1-59-48 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 06-10-14 2-30-22 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/11/2014 8:19:33 AM	6/11/2014 8:19:45 AM	6/11/2014 8:19:56 AM	6/11/2014 8:20:08 AM

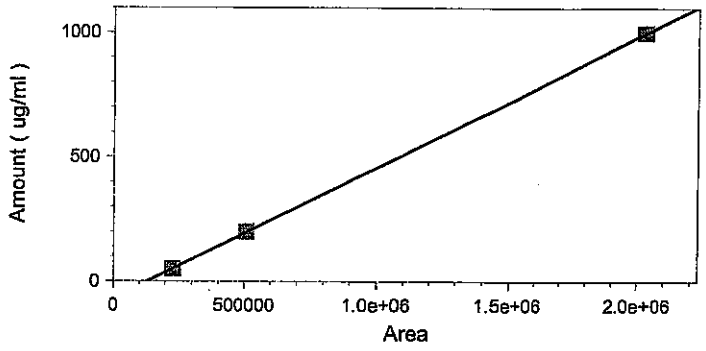
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
Print Time: 6/11/2014 8:22:59 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000368377 RF StDev: 0.000139230 RF %RSD: 37.7954
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000527306x - 69.3905
Goodness of fit (r^2): 0.999989

J JZ 6/10/14

Group: MRO -- ESTD -- FID



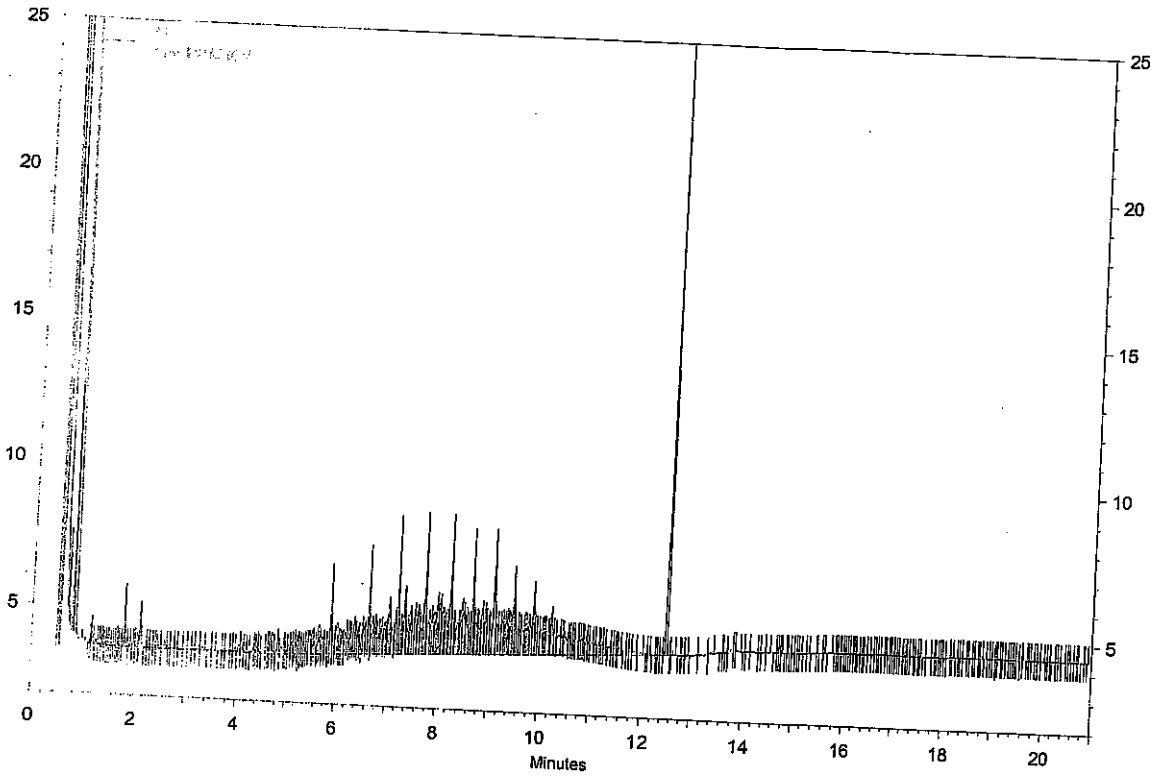
JZ 6.11.14

	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	229267	507508	2028547
RF	0.000218086	0.00039408245	0.000492963682
	336018703	7813473	872519
Last Area			
Residual	-1.50338	1.77839	-0.275011
Rep StDev			
Rep %RSD			
Rep 1 Area	229267	507508	2028547
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 06-10-14 3-29-42 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 06-10-14 3-59-24 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1000 PPM MO06-10-14 4-29-27 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1000 PPM MO
Rep 1 Calib. Time	6/11/2014 8:20:29 AM	6/11/2014 8:20:44 AM	6/11/2014 8:20:56 AM

Sample ID: **100 PPM ICV** Vial #: **10** User: **System**

Data Descritpion: **SV109-1483**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 06-10-14 3-00-09 PM.dat
Aquired: 6/10/2014 3:08:28 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	25363	9.710
DRO		292549	92.670
MRO		3081	0.000

±20%

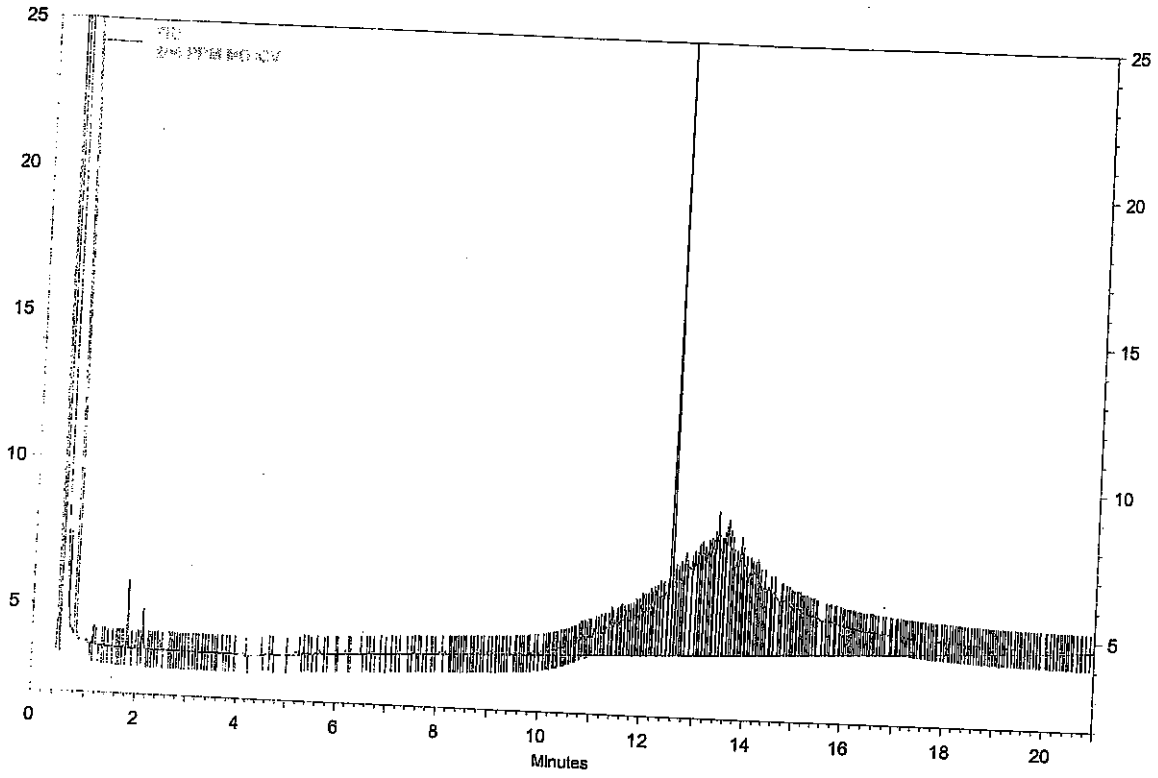
Analyst _____

Reviewed By _____

Sample ID: **200 PPM MO ICV** Vial #: 14 User: **System**

Data Descritpion: **SV109-1487**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	36292	13.948
DRO		100298	29.038
MRO		506623	197.755

Analyst JE

Reviewed By JC

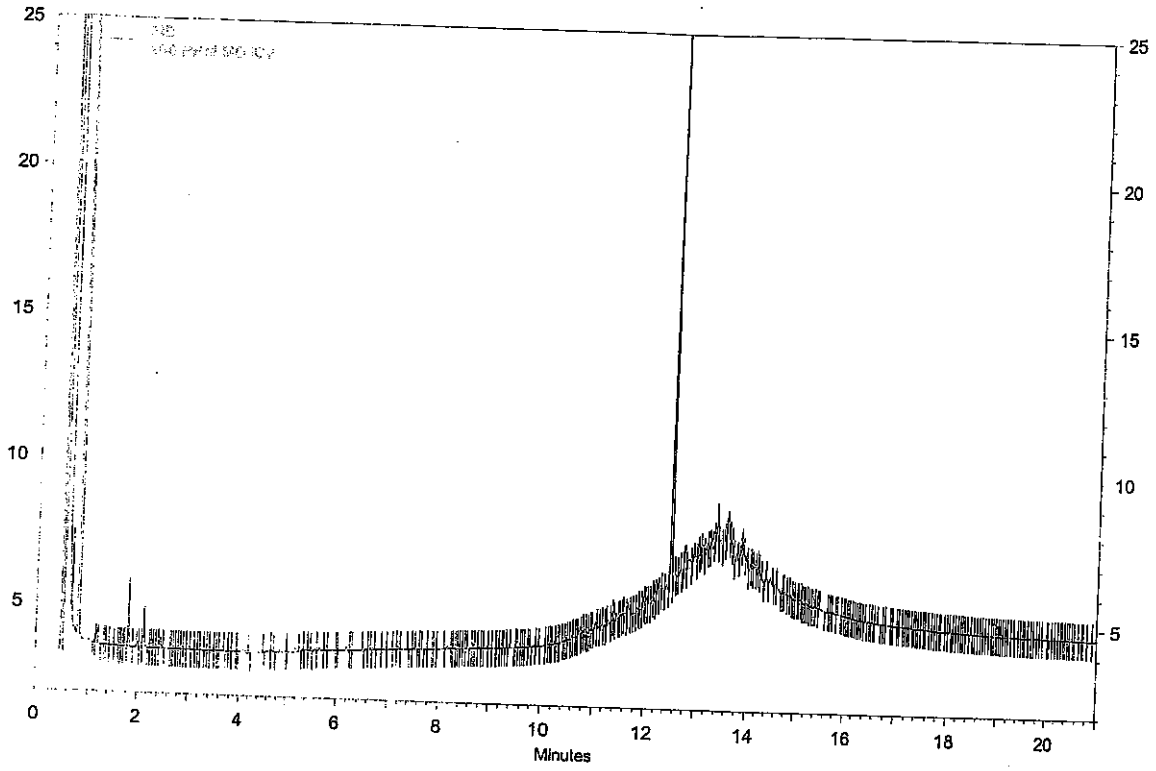
13.948
-10.574
3.374
+197.755
201.129

±20% /

$\frac{201.129}{200} \times 100 = 100.5645\%$

Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1487** User: **System**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 061114.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 06-10-14 4-59-45 PM.dat
Aquired: 6/10/2014 5:08:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.50	27588	10.574
DRO		11171	0.000
MRO		19497	0.000

Analyst _____

Reviewed By _____

7/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407139**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407139

Lab ID: 1407139-001 **Collection Date:** 7/2/2014 12:17:00 PM
Client Sample ID: FFOR-CF-0016 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: MS/MSD LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg-dry	1	R19795	7/9/2014 3:33:51 PM
Surr: BFB	115	61.2-137		%REC	1	R19795	7/9/2014 3:33:51 PM

Lab ID: 1407139-002 **Collection Date:** 7/2/2014 12:28:00 PM
Client Sample ID: FFOR-CF-0017 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg-dry	1	R19795	7/9/2014 4:58:28 PM
Surr: BFB	110	61.2-137		%REC	1	R19795	7/9/2014 4:58:28 PM

Lab ID: 1407139-003 **Collection Date:** 7/2/2014 12:40:00 PM
Client Sample ID: FFOR-CF-0018 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg-dry	1	R19795	7/9/2014 5:26:35 PM
Surr: BFB	112	61.2-137		%REC	1	R19795	7/9/2014 5:26:35 PM

Lab ID: 1407139-004 **Collection Date:** 7/2/2014 12:50:00 PM
Client Sample ID: FFOR-CF-0019 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg-dry	1	R19795	7/9/2014 5:54:44 PM
Surr: BFB	108	61.2-137		%REC	1	R19795	7/9/2014 5:54:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407139
Project: Kirtland AFB

Lab ID: 1407139-009 **Collection Date:** 7/2/2014 3:26:00 PM
Client Sample ID: FFOR-CF-0024 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg-dry	1	R19795	7/9/2014 8:14:45 PM
Surr: BFB	105	61.2-137		%REC	1	R19795	7/9/2014 8:14:45 PM

Lab ID: 1407139-010 **Collection Date:** 7/2/2014 3:34:00 PM
Client Sample ID: FFOR-CF-0025 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg-dry	1	R19795	7/9/2014 8:42:43 PM
Surr: BFB	105	61.2-137		%REC	1	R19795	7/9/2014 8:42:43 PM

Lab ID: 1407139-011 **Collection Date:** 7/2/2014 3:40:00 PM
Client Sample ID: FFOR-CF-0026 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg-dry	1	R19795	7/9/2014 9:10:41 PM
Surr: BFB	110	61.2-137		%REC	1	R19795	7/9/2014 9:10:41 PM

Lab ID: 1407139-012 **Collection Date:**
Client Sample ID: MEOH BLANK **Matrix:** MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R19795	7/9/2014 9:38:40 PM
Surr: BFB	110	61.2-137		%REC	1	R19795	7/9/2014 9:38:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

arian Star Workstation - Generic SampleList Wed Jul 09 13:53:56 2014

ampleList: C:\VarianWS\070914v.smp

reated: Wed Jul 09 08:45:30 2014
odified: Wed Jul 09 13:53:48 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-1994	
2	5mL-rb	below tune @ 9:28
	Notes All injections contain V-52-0468	
3	100ng ccv	below @9:56
	Notes V-54-0435	
4	2.5ug gro ccv	below
	Notes V-18-2047	
5	100ng btex lcs	below
	Notes V-11-8033	
6	2.5ug gro lcs	below
	Notes V-18-2036	
7	vsb deli	below tune @ 11:48
	Notes 6/30-->7/9	
8	1406c94-006a	below
	Notes r200-0.5uL PB13945 T,X	
9	1406c94-009a	below
	Notes r1,000-0.1uL PB13945 B,T	
10	1406c94-010a	below
	Notes r2-50uL PB13945 Dilution due to sample matrix	
11	1406c94-011a	below
	Notes r1-100uL PB13945	
12	1406c94-012a	below
	Notes r2-50uL PB13945 Dilution due to sample matrix	
13	1406d88-001a ms	below
	Notes V-18-2036	
14	1406d88-001a msd	below
	Notes V-18-2036	
15	1407139-001a	below
	Notes x1-100uL MeOH GRO	
16	1407139-001a ms	below
	Notes V-18-2036 GRO	
17	1407139-001a msd	below
	Notes V-18-2036 GRO	
18	1407139-002a	below
	Notes x1-100uL MeOH GRO	
19	1407139-003a	below
	Notes x1-100uL MeOH GRO	
20	1407139-004a	below
	Notes x1-100uL MeOH GRO	
21	1407139-005a	below
	Notes x1-100uL MeOH GRO	
22	1407139-006a	below
	Notes x1-100uL MeOH GRO	
23	1407139-007a	below
	Notes x1-100uL MeOH GRO	
24	1407139-008a	below
	Notes x1-100uL MeOH GRO	
25	1407139-009a	below
	Notes x1-100uL MeOH GRO	
26	1407139-010a	below
	Notes x1-100uL MeOH GRO	
27	1407139-011a	below
	Notes x1-100uL MeOH GRO	
28	1407139-012a	below
	Notes x1-100uL MeOH Blk GRO @9:38	
29	rtm	below
	Notes V-18-1994	
30	b1	none tune @ 10:34
31	75ng ccv	below @ 11:02
	Notes V-54-0435	
32	2.25ug gro ccv	below
	Notes V-18-2047	
33	vcb2	none
34	1407188-001a	below
	Notes x1-100uL MeOH GRO	

Loaded By: [signature] 7-9-14
1st Review By: [signature] 7-10-14
QA'd By: [signature] 7/11/14

```
36              lcs-14095      below
                Notes  V-11-8033 SoilTCLP
37              mb-14095       below
                Notes  4681 SoilTCLP
38          1407186-001a       below
                Notes  x10-10uL PB14095 SoilTCLP
39        1407186-001ams       below
                Notes  x10 V-11-8033 PB14095 SoilTCLP
40      1407186-001amsd        below
                Notes  x10 V-11-8033 PB14095 SoilTCLP
41             lcs-14109       below
                Notes  V-11-8033
42              mb-14109       below
                Notes  4681
43          1407305-001a       below
                Notes  x1-100uL PB14109
44        1407305-001ams       below
                Notes  V-11-8033 PB14109
45      1407305-001amsd        below
                Notes  V-11-8033 PB14109
46          1407305-002a       below
                Notes  x1-100uL PB14109
47          1407307-001a       below
                Notes  x10-10uL PB14109
48             lcs-14115       below
                Notes  V-11-8033 V_O
49            lcsd-14115       below
                Notes  V-11-8033 V_O
50              mb-14115       below
                Notes  4681 V_O
51          1407250-002a       below
                Notes  x100-1uL V_O
52                    b2        none
53

Directory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070914v.rcl.
```

SoilTCLP

@2:20

Loaded By: 7-9-14
1st Review By: 7-10-14
QA'd By: NB 7/11/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114v GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	X	☐	☐	X	

8260 annex

Calibration Name: 062914v 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	X	☐	☐	high-rr hits
Acrylonitrile	X	☐	☐	☐	
Isobutyl alcohol	☐	X	☐	☐	high-rr hits
1,4-Dioxane	X	☐	☐	☐	
trans-1,4-Dichloro-2-butene	X	☐	☐	☐	

Analyst: RA 7-2-14

QA: NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): data\2014v\0714v\070914v\gro\2.5ug gro ccv 7-9-2014.SMS Lab Sample ID: 2.5ug gro ccv

Instrument ID: VAL Date Analyzed: 7/9/2014 Time Analyzed: 10:24

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	97788	14.30										
UPPER LIMIT	195576	14.80										
LOWER LIMIT	48894	13.80										
EPA SAMPLE NO												
rtm 7-9-20	100116	14.31										
5mL-rb 7-9	87942	14.30										
2.5ug gro	92859	14.31										
1406d88-00	85473	14.31										
1406d88-00	82061	14.31										
1407139-00	82922	14.31										
1407139-00	81743	14.31										
1407139-00	84514	14.31										
1407139-00	83487	14.31										
1407139-00	85413	14.31										
1407139-00	81295	14.31										
1407139-00	86976	14.31										
1407139-00	80394	14.31										
1407139-00	86791	14.32										
1407139-00	84005	14.31										
1407139-00	87664	14.31										

7.10.14

WB 7/11/14

7/10/2014 10:27

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
1407139-01	88427	14.31										
1407139-01	87393	14.31										
1407139-01	83691	14.31										
rtm 7-9-20	94377	14.31										
2.25ug gro	91440	14.31										
1407188-00	83003	14.31										
1407188-00	89749	14.31										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

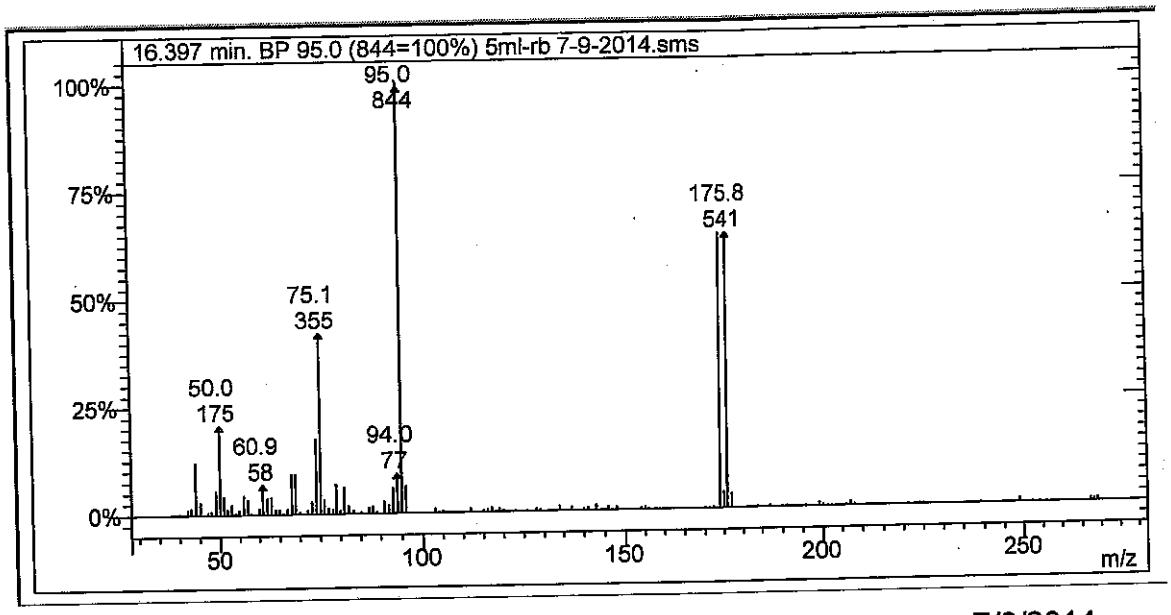
D Indicates the peak is not "Identified".

7-10-14

7/11/14

Analyst: RAA

BFB 8260B Report



Lab File ID: 5ml-rb 7-9-2014.sms

Injection Date: 7/9/2014

Injection Time: 9:28

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.73	PASS
75	30-60% of m/z 95	42.06	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.16	PASS
173	<2% of m/z 174	0.00	PASS
174	>50% of m/z 95	63.98	PASS
175	5-9% of m/z 174	5.93	PASS
176	>95% but <101% of m/z 174	100.19	PASS
177	5-9% of m/z 176	5.18	PASS

7/11/14

7.9.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.5ug gro	97788	14.30										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

M 7.10.14

✓ 07/11/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/9/2014 Time: 10:24

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 7-9-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2743.914	0.100	2.50	2.56	-2.4	20.0	PASS	PASS
BFB	1.001	0.100	50.00	48.11	3.8	30.0	PASS	PASS

AA 7-10-14

JJB 7/11/14

Analyst: RAA

JNB 7/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-008
Client Sample ID: Methanol Blank
Collection Date:
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Toluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Naphthalene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Acetone	ND	0.75		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromoform	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromomethane	0.077	0.15	J	mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Butanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Carbon disulfide	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloroethane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloroform	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Chloromethane	ND	0.15		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dibromomethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8260B: VOLATILES

Analyst: **RAA**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
2-Hexanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Methylene chloride	0.012	0.15	J	mg/Kg	1	R19656	7/3/2014 3:33:45 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Styrene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Vinyl chloride	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Xylenes, Total	ND	0.10		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Bromochloromethane	ND	0.050		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Vinyl acetate	ND	0.50		mg/Kg	1	R19656	7/3/2014 3:33:45 AM
Surr: Dibromofluoromethane	109	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: Toluene-d8	81.9	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM
Surr: 4-Bromofluorobenzene	82.2	70-130		%REC	1	R19656	7/3/2014 3:33:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

WB7/7/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001
Client Sample ID: FFOR-CF-0009
Collection Date: 7/1/2014 9:43:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Toluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Ethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Xylenes, Total	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Methyl tert-butyl ether (MTBE)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,4-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3,5-Trimethylbenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichloroethane (EDC)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dibromoethane (EDB)	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Naphthalene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Acetone	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromodichloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromoform	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromomethane	ND	0.00337		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Butanone	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Carbon tetrachloride	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloroethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloroform	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Chloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Carbon disulfide	ND	0.00674		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Chlorotoluene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
cis-1,2-DCE	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
cis-1,3-Dichloropropene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dibromo-3-chloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dibromochloromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dibromomethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,4-Dichlorobenzene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Dichlorodifluoromethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1-Dichloroethane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1-Dichloroethene	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,3-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2,2-Dichloropropane	ND	0.00135		mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Hexachlorobutadiene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Isopropylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Isopropyltoluene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Methylene chloride	ND	0.00337	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
n-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
2-Hexanone	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
n-Propylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
sec-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Styrene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
4-Methyl-2-pentanone	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
tert-Butylbenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,1,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,2,2-Tetrachloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Tetrachloroethene (PCE)	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
trans-1,2-DCE	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
trans-1,3-Dichloropropene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,3-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,4-Trichlorobenzene	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,1-Trichloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,1,2-Trichloroethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Trichloroethene (TCE)	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Trichlorofluoromethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
1,2,3-Trichloropropane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Vinyl chloride	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Vinyl acetate	ND	0.00674	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Bromochloromethane	ND	0.00135	mg/Kg-dry	1	14027	7/2/2014 12:57:21 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: 4-Bromofluorobenzene	99.6	65.3-135	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: Dibromofluoromethane	95.7	70-130	%REC	1	14027	7/2/2014 12:57:21 PM
Surr: Toluene-d8	93.6	70-130	%REC	1	14027	7/2/2014 12:57:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-002
Client Sample ID: FFOR-CF-0010
Collection Date: 7/1/2014 11:14:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Toluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Ethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Xylenes, Total	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,4-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3,5-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichloroethane (EDC)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dibromoethane (EDB)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Naphthalene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Acetone	0.00986	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromodichloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromoform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromomethane	ND	0.00399		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Butanone	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Carbon tetrachloride	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloroform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Chloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Carbon disulfide	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
cis-1,2-DCE	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
cis-1,3-Dichloropropene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dibromo-3-chloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dibromochloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dibromomethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,4-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Dichlorodifluoromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1-Dichloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1-Dichloroethene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,3-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Hexachlorobutadiene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Isopropylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Isopropyltoluene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Methylene chloride	ND	0.00399	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
n-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
2-Hexanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
n-Propylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
sec-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Styrene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
4-Methyl-2-pentanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
tert-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,1,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,2,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Tetrachloroethene (PCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
trans-1,2-DCE	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
trans-1,3-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,3-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,4-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,1-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,1,2-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Trichloroethene (TCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Trichlorofluoromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
1,2,3-Trichloropropane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Vinyl chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Vinyl acetate	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Bromochloromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 1:27:04 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: 4-Bromofluorobenzene	95.9	65.3-135	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: Dibromofluoromethane	95.3	70-130	%REC	1	14027	7/2/2014 1:27:04 PM
Surr: Toluene-d8	99.8	70-130	%REC	1	14027	7/2/2014 1:27:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-003
Client Sample ID: FFOR-CF-0011
Collection Date: 7/1/2014 11:14:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Toluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Ethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Xylenes, Total	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,4-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3,5-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichloroethane (EDC)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dibromoethane (EDB)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Naphthalene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Acetone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromodichloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromoform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromomethane	ND	0.00332		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Butanone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Carbon tetrachloride	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloroform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Chloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Carbon disulfide	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
cis-1,2-DCE	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
cis-1,3-Dichloropropene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dibromo-3-chloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dibromochloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dibromomethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,4-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Dichlorodifluoromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1-Dichloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1-Dichloroethene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,3-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Hexachlorobutadiene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Isopropylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Isopropyltoluene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Methylene chloride	ND	0.00332	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
n-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
2-Hexanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
n-Propylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
sec-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Styrene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
4-Methyl-2-pentanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
tert-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,1,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,2,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Tetrachloroethene (PCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
trans-1,2-DCE	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
trans-1,3-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,3-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,4-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,1-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,1,2-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Trichloroethene (TCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Trichlorofluoromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
1,2,3-Trichloropropane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Vinyl chloride	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Vinyl acetate	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Bromochloromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 1:56:53 PM
Surr: 1,2-Dichloroethane-d4	115	70-130	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: 4-Bromofluorobenzene	95.5	65.3-135	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: Dibromofluoromethane	91.5	70-130	%REC	1	14027	7/2/2014 1:56:53 PM
Surr: Toluene-d8	102	70-130	%REC	1	14027	7/2/2014 1:56:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-004
Client Sample ID: FFOR-CF-0012
Collection Date: 7/1/2014 11:33:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Toluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Ethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Xylenes, Total	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Methyl tert-butyl ether (MTBE)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,4-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3,5-Trimethylbenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichloroethane (EDC)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dibromoethane (EDB)	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Naphthalene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Acetone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromodichloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromoform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromomethane	ND	0.00331		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Butanone	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Carbon tetrachloride	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloroform	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Chloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Carbon disulfide	ND	0.00663		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Chlorotoluene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
cis-1,2-DCE	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
cis-1,3-Dichloropropene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dibromo-3-chloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dibromochloromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dibromomethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,4-Dichlorobenzene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Dichlorodifluoromethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1-Dichloroethane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1-Dichloroethene	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,3-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2,2-Dichloropropane	ND	0.00133		mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Hexachlorobutadiene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Isopropylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Isopropyltoluene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Methylene chloride	ND	0.00331	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
n-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
2-Hexanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
n-Propylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
sec-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Styrene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
4-Methyl-2-pentanone	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
tert-Butylbenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,1,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,2,2-Tetrachloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Tetrachloroethene (PCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
trans-1,2-DCE	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
trans-1,3-Dichloropropene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,3-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,4-Trichlorobenzene	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,1-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,1,2-Trichloroethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Trichloroethene (TCE)	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Trichlorofluoromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
1,2,3-Trichloropropane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Vinyl chloride	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Vinyl acetate	ND	0.00663	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Bromochloromethane	ND	0.00133	mg/Kg-dry	1	14027	7/2/2014 2:26:40 PM
Surr: 1,2-Dichloroethane-d4	95.1	70-130	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: 4-Bromofluorobenzene	97.7	65.3-135	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: Dibromofluoromethane	87.5	70-130	%REC	1	14027	7/2/2014 2:26:40 PM
Surr: Toluene-d8	93.8	70-130	%REC	1	14027	7/2/2014 2:26:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-005 **Collection Date:** 7/1/2014 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Toluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Ethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Xylenes, Total	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Methyl tert-butyl ether (MTBE)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,4-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3,5-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichloroethane (EDC)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dibromoethane (EDB)	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Naphthalene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Acetone	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromodichloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromoform	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromomethane	ND	0.00359		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Butanone	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Carbon tetrachloride	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloroethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloroform	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Chloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Carbon disulfide	ND	0.00717		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
cis-1,2-DCE	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
cis-1,3-Dichloropropene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dibromo-3-chloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dibromochloromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dibromomethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,4-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Dichlorodifluoromethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1-Dichloroethane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1-Dichloroethene	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,3-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Hexachlorobutadiene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Isopropylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Isopropyltoluene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Methylene chloride	ND	0.00359	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
n-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
2-Hexanone	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
n-Propylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
sec-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Styrene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
4-Methyl-2-pentanone	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
tert-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,1,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,2,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Tetrachloroethene (PCE)	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
trans-1,2-DCE	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
trans-1,3-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,3-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,4-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,1-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,1,2-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Trichloroethene (TCE)	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Trichlorofluoromethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
1,2,3-Trichloropropane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Vinyl chloride	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Vinyl acetate	ND	0.00717	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Bromochloromethane	ND	0.00143	mg/Kg-dry	1	14027	7/2/2014 2:56:32 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: 4-Bromofluorobenzene	97.2	65.3-135	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: Dibromofluoromethane	85.8	70-130	%REC	1	14027	7/2/2014 2:56:32 PM
Surr: Toluene-d8	96.9	70-130	%REC	1	14027	7/2/2014 2:56:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407066**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006
Client Sample ID: FFOR-CF-0014
Collection Date: 7/1/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Toluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Ethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Xylenes, Total	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Methyl tert-butyl ether (MTBE)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,4-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3,5-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichloroethane (EDC)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dibromoethane (EDB)	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Naphthalene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Acetone	0.00833	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromodichloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromoform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromomethane	ND	0.00399		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Butanone	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Carbon tetrachloride	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloroform	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Chloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Carbon disulfide	ND	0.00798		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
cis-1,2-DCE	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
cis-1,3-Dichloropropene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dibromo-3-chloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dibromochloromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dibromomethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,4-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Dichlorodifluoromethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1-Dichloroethane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1-Dichloroethene	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,3-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Hexachlorobutadiene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Isopropylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Isopropyltoluene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Methylene chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
n-Butylbenzene	ND	0.00399	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
2-Hexanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
n-Propylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
sec-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Styrene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
4-Methyl-2-pentanone	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
tert-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,1,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,2,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Tetrachloroethene (PCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
trans-1,2-DCE	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
trans-1,3-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,3-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,4-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,1-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,1,2-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Trichloroethene (TCE)	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Trichlorofluoromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
1,2,3-Trichloropropane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Vinyl chloride	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Vinyl acetate	ND	0.00798	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Bromochloromethane	ND	0.00160	mg/Kg-dry	1	14027	7/2/2014 3:26:18 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: 4-Bromofluorobenzene	95.2	65.3-135	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: Dibromofluoromethane	77.2	70-130	%REC	1	14027	7/2/2014 3:26:18 PM
Surr: Toluene-d8	96.6	70-130	%REC	1	14027	7/2/2014 3:26:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	0.00230	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Toluene	0.00323	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Ethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Xylenes, Total	0.00254	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,4-Trimethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3,5-Trimethylbenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichloroethane (EDC)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dibromoethane (EDB)	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Naphthalene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Acetone	0.0116	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromodichloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromoform	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromomethane	ND	0.00407		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Butanone	ND	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Carbon tetrachloride	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloroethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloroform	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Chloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Carbon disulfide	ND	0.00815		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
cis-1,2-DCE	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
cis-1,3-Dichloropropene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dibromo-3-chloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dibromochloromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dibromomethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,4-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Dichlorodifluoromethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1-Dichloroethane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1-Dichloroethene	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,3-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Hexachlorobutadiene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Isopropylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Isopropyltoluene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Methylene chloride	ND	0.00407	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
n-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
2-Hexanone	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
n-Propylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
sec-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Styrene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
4-Methyl-2-pentanone	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
tert-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,1,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,2,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Tetrachloroethene (PCE)	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
trans-1,2-DCE	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
trans-1,3-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,3-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,4-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,1-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,1,2-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Trichloroethene (TCE)	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Trichlorofluoromethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
1,2,3-Trichloropropane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Vinyl chloride	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Vinyl acetate	ND	0.00815	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Bromochloromethane	ND	0.00163	mg/Kg-dry	1	14027	7/2/2014 3:56:03 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: 4-Bromofluorobenzene	96.2	65.3-135	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: Dibromofluoromethane	87.4	70-130	%REC	1	14027	7/2/2014 3:56:03 PM
Surr: Toluene-d8	104	70-130	%REC	1	14027	7/2/2014 3:56:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1,1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

RT 7-7-14

NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

RAA 7-7-14

JB 7/8/14

Analyst: RAA

arian Star Workstation - Generic SampleList Tue Jul 08 09:13:11 2014

ampleList: C:\VarianWS\070714v.smp

reated: Mon Jul 07 08:17:38 2014
odified: Tue Jul 08 08:56:50 2014

****

Line	Sample Name	Injection Notes	
1	b1	below	
	Notes All injections contain V-52-0465		
2	5mL-rb	none	tune @ 9:04
3	100ng ccv	below	@ 9:32
	Notes V-54-0435		
4	100ng lcs	below	
	Notes V-11-8033		
5	lcs-13945	below	
	Notes V-11-8033		
6	mb-13945	below	
	Notes 4681		
7	vcb	none	tune @ 11:24
8	1406d72-006a	below	
	Notes x1-100uL MeOH		
9	1406d72-006a ms	below	
	Notes V-11-8033 MeOH		
10	1406d72-006a msd	below	
	Notes V-11-8033 MeOH		
11	1406d72-007a	below	
	Notes x1-100uL MeOH		
12	1406d72-008a	below	
	Notes x1-100uL MeOH		
13	1406d72-009a	below	
	Notes x1-100uL MeOH		
14	1406d72-010a	below	
	Notes x1-100uL MeOH		
15	1406d72-011a	below	
	Notes x1-100uL MeOH		
16	1406d72-012a	below	
	Notes x1-100uL MeOH		
17	1406d72-013a	below	
	Notes x1-100uL MeOH Blk		
18	1406d79-001a	below	
	Notes x1-100uL MeOH		
19	1406d79-002a	below	
	Notes x1-100uL MeOH		
20	1406d79-003a	below	
	Notes x1-100uL MeOH		
21	1406d79-004a	below	
	Notes x1-100uL MeOH Blk		
22	1406c94-013a	below	
	Notes x50-2uL PB13945		
23	1406c94-014a	below	r500 - 124TMB
	Notes x200-0.5uL PB13945		MS/D Not analyzed due to high dilution/sample
24	1406c94-001a	below	matrix AT 7-8-14
	Notes x100-1uL PB13945		
25	1406c94-002a	below	r1
	Notes x100-1uL PB13945		
26	1406c94-003a	below	
	Notes x100-1uL PB13945		
27	1406c94-004a	below	r1
	Notes x20-5uL PB13945		
28	1406c94-005a	below	@ 9:18 r1000-T
	Notes x100-1uL PB13945		
29	rtm	below	
	Notes V-18-1994		
30	b2	none	tune @ 10:14
31	75ng ccv	below	@ 10:42
	Notes V-54-0435		
32	2.5ug gro ccv	below	J rr all GRO data
	Notes V-18-2047		
33	2.5ug gro lcs	below	
	Notes V-18-2036		
34	1406d88-001a ms	below	
	Notes V-18-2036 MeOH GRO		
35	1406d88-001a msd	below	

Loaded By: AT 7-7-14
1st Review By: AT 7-8-14
QA'd By: NB 7/8/14

```
37          1407139-001a      below
                Notes  x1-100uL MeOH GRO
38       1407139-001a ms      below
                Notes  V-18-2036 MeOH GRO
39      1407139-001a msd      below
                Notes  V-18-2036 MeOH GRO
40          1407139-002a      below
                Notes  x1-100uL MeOH GRO
41          1407139-003a      below
                Notes  x1-100uL MeOH GRO
42          1407139-004a      below
                Notes  x1-100uL MeOH GRO
43          1407139-005a      below
                Notes  x1-100uL MeOH GRO
44          1407139-006a      below
                Notes  x1-100uL MeOH GRO
45          1407139-007a      below
                Notes  x1-100uL MeOH GRO
46          1407139-008a      below
                Notes  x1-100uL MeOH GRO
47          1407139-009a      below
                Notes  x1-100uL MeOH GRO
48          1407139-010a      below
                Notes  x1-100uL MeOH GRO
49          1407139-011a      below
                Notes  x1-100uL MeOH GRO
50          1407139-012a      below
                Notes  x1-100uL MeOH Blk 8260,GRO
51          1407188-001a      below
                Notes  x1-100uL MeOH GRO
52          1407188-002a      below
                Notes  x1-100uL MeOH Blk 8260,GRO
53          1406c94-014a      below
                Notes  r500-0.2uL 1,2,4-TMB PB13945
54          1406c94-006a      below
                Notes  x200-0.5uL PB13945
55          1406c94-007a      below
                Notes  x200-0.5uL PB13945
56          1406c94-008a      below
                Notes  x100-1uL PB13945
57
```

r r r20 r50 r500-B;T

10:11

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070714v.rcl.

Loaded By: 7.7.14

1st Review By: 7-8-14

QA'd By: JB 7/8/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114v GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☒	☐	☐	☒	

8260 annex

Calibration Name: 062914v 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☒	☐	☐	high-rr hits
Acrylonitrile	☒	☐	☐	☐	
Isobutyl alcohol	☐	☒	☐	☐	high-rr hits
1,4-Dioxane	☒	☐	☐	☐	
trans-1,4-Dichloro-2-butene	☒	☐	☐	☐	

Analyst: RA 7-2-14

QA: [signature] NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\070714v\100ng ccv 7-7-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 7/7/2014 Time Analyzed: 09:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	66442	7.99	97545	14.30	54375	17.91						
UPPER LIMIT	132884	8.49	195090	14.80	108750	18.41						
LOWER LIMIT	33221	7.49	48773	13.80	27188	17.41						
EPA SAMPLE NO												
b1 7-7-201	73960	7.99	101198	14.31	56110	17.91						
5mL-rb 7-7	66412	7.99	93993	14.31	51444	17.91						
100ng lcs	70986	7.99	98430	14.30	54849	17.91						
lcs-13945	60270	7.99	88325	14.31	56593	17.91						
mb-13945 7	69594	7.99	89241	14.31	56548	17.91						
vcb 7-7-20	69007	7.99	97238	14.30	53180	17.91						
1406d72-00	68935	7.99	97791	14.31	58586	17.91						
1406d72-00	66019	8.00	93729	14.31	58299	17.92						
1406d72-00	64446	8.00	90000	14.31	57722	17.92						
1406d72-00	65680	8.00	92674	14.32	59394	17.92						
1406d72-00	64624	8.00	91037	14.31	60810	17.91						
1406d72-00	63744	8.00	84664	14.31	60931	17.92						
1406d72-01	66006	8.00	90131	14.32	61202	17.92						
1406d72-01	66683	8.00	92341	14.31	59756	17.92						
1406d72-01	65939	8.00	93374	14.31	59402	17.92						
1406d72-01	65491	8.00	90231	14.31	60255	17.92						

RA 7-9-14

WB 7/8/14

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1406d79-00	64636	8.00	89686	14.32	61377	17.92						
1406d79-00	66198	8.00	90710	14.32	57854	17.92						
1406d79-00	64760	8.01	91943	14.32	61285	17.92						
1406d79-00	64795	8.00	93801	14.32	59365	17.92						
1406c94-01	75147	8.01	103225	14.31	56566	17.92						
1406c94-01	65008	8.01	98224	14.31	56006 D	17.92 D						
1406c94-00	72640	8.01	101196	14.31	54403	17.92						
1406c94-00	65145	8.00	95998	14.31	54529	17.92						
1406c94-00	64682	8.01	102102	14.31	55408	17.92						
1406c94-00	67916	8.01	98779	14.32	53823	17.92						
1406c94-00	77463	8.01	101054	14.31	55711	17.91						
rtm 7-7-20	65078	8.00	92550	14.31	52066	17.92						
b2 7-7-201	64063	8.00	92400	14.31	50045	17.92						
75ng ccv 7	66738	8.00	97127	14.31	54832	17.92						
2.5ug gro	64640	8.00	93604	14.31	52021	17.91						
2.5ug gro	70282	8.00	97558	14.31	53107	17.92						
1406d88-00	61483	8.00	88254	14.32	59009	17.92						
1406d88-00	69110	8.00	93580	14.32	58656	17.92						
vcb 7-8-20	67355	8.00	94734	14.31	54397	17.92						
1407139-00	61890	7.99	90416	14.31	57715	17.91						
1407139-00	68890	8.00	94026	14.32	60897	17.92						
1407139-00	64702	8.00	85043	14.31	57050	17.92						
1407139-00	62755	8.00	87722	14.32	60392	17.92						
1407139-00	65758	8.00	87787	14.32	56881	17.92						
1407139-00	61743	7.99	84668	14.31	57681	17.92						
1407139-00	66346	8.00	93262	14.32	58118	17.92						
1407139-00	65121	8.00	90983	14.31	58853	17.92						
1407139-00	64338	8.00	91499	14.32	59024	17.92						
1407139-00	65999	7.99	89816	14.31	61298	17.91						
1407139-00	66450	7.99	89978	14.31	57352	17.91						
1407139-01	61970	7.99	84836	14.31	55524	17.91						
1407139-01	65756	7.99	91188	14.31	59184	17.91						
1407139-01	65464	7.99	89212	14.31	56591	17.91						
1407188-00	64158	7.99	84154	14.31	56160	17.91						

RA 7.8.14

7/8/14

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407188-00	64477	7.99	90395	14.31	58364	17.91						
1406c94-01	71685	8.00	98600	14.31	58048	17.91						
1406c94-00	66675	7.99	97094	14.31	52784	17.91						
1406c94-00	67151	8.00	96622	14.31	54427	17.91						
1406c94-00	67228	8.00	98276	14.31	53523	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

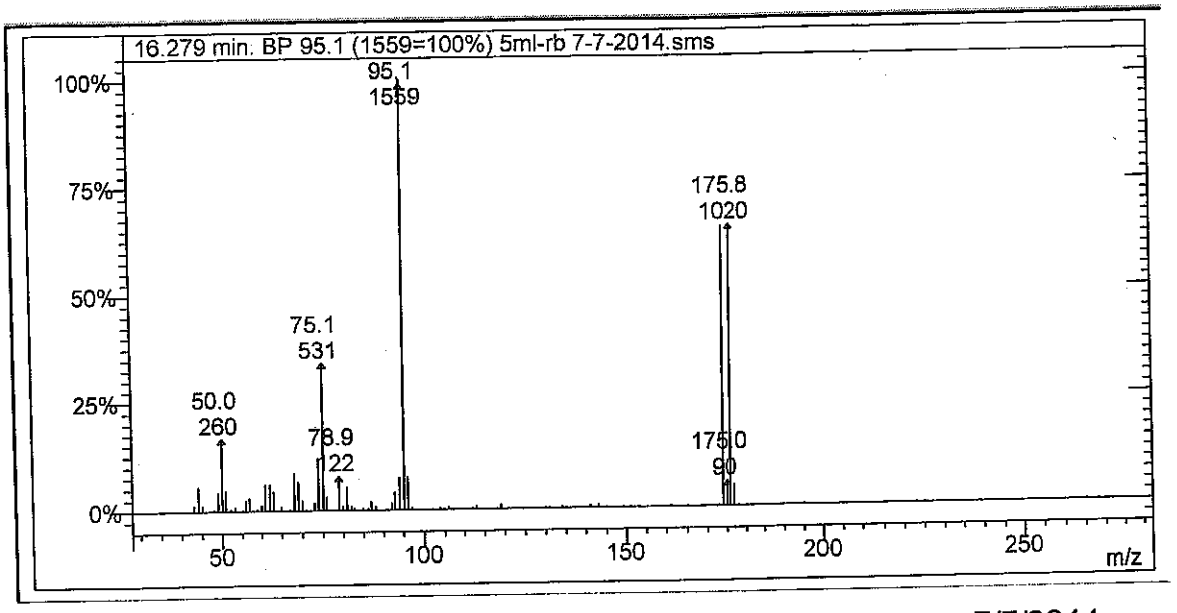
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7.8.14

NB 7/8/14

Analyst: RAA

BFB 8260B Report



Lab File ID: 5ml-rb 7-7-2014.sms

Injection Date: 7/7/2014

Injection Time: 9:04

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	16.68	PASS
75	30-60% of m/z 95	34.06	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.57	PASS
173	<2% of m/z 174	0.39	PASS
174	>50% of m/z 95	65.11	PASS
175	5-9% of m/z 174	8.87	PASS
176	>95% but <101% of m/z 174	100.49	PASS
177	5-9% of m/z 176	7.35	PASS

7/8/14

7-7-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): lata\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
100ng ccv	66442	7.99	97545	14.30	54375	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

M 7.7.14
JVB 7/8/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/7/2014 Time: 9:32

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/5/2014 7/5/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:12 20:12

Initial Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 7-7-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.549	0.100	100.00	123.63	-23.6	30.0	PASS	PASS
Chloromethane	0.791	0.100	100.00	120.51	-20.5	30.0	PASS	PASS
Vinyl chloride	2.038	0.100	100.00	119.08	-19.1	20.0	PASS	PASS
Chloroethane	0.291	0.100	100.00	115.02	-15.0	30.0	PASS	PASS
Bromomethane	1.238	0.100	100.00	114.25	-14.3	30.0	PASS	PASS
Trichlorofluoromethane	0.925	0.100	100.00	107.55	-7.6	30.0	PASS	PASS
1,1-Dichloroethene	1.364	0.100	100.00	113.73	-13.7	20.0	PASS	PASS
Acetone	0.484	0.100	200.00	155.30	22.4	40.0	PASS	PASS
Carbon disulfide	1.165	0.100	200.00	224.79	-12.4	40.0	PASS	PASS
Iodomethane	0.812	0.100	200.00	180.42	9.8	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.417	0.100	200.00	205.88	-2.9	30.0	PASS	PASS
Isopropyl ether	1.682	0.100	200.00	215.44	-7.7	40.0	PASS	PASS
tert-Butyl alcohol	0.267	0.100	2000.00	1512.69	24.4	40.0	PASS	PASS
trans-1,2-DCE	1.535	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
tert-Butyl ethyl ether	3.163	0.100	200.00	223.73	-11.9	40.0	PASS	PASS
1,1-Dichloroethane	1.629	0.100	100.00	107.11	-7.1	30.0	PASS	PASS
Methylene Chloride	1.695	0.100	100.00	109.10	-9.1	30.0	PASS	PASS
Vinyl Acetate	2.283	0.100	200.00	247.07	-23.5	40.0	PASS	PASS
2,2-Dichloropropane	0.976	0.100	100.00	117.20	-17.2	30.0	PASS	PASS
2-Butanone	0.610	0.100	200.00	151.58	24.2	40.0	PASS	PASS
1,1,1-Trichloroethane	1.627	0.100	100.00	108.67	-8.7	30.0	PASS	PASS
tert-Amyl methyl ether	1.534	0.100	200.00	209.07	-4.5	40.0	PASS	PASS
1,1-Dichloropropene	0.771	0.100	100.00	114.35	-14.3	30.0	PASS	PASS
Carbon Tetrachloride	3.435	0.100	100.00	108.24	-8.2	30.0	PASS	PASS
cis-1,2-DCE	2.016	0.100	100.00	107.01	-7.0	30.0	PASS	PASS
Benzene	1.928	0.100	100.00	108.85	-8.8	30.0	PASS	PASS
Chloroform	1.268	0.100	100.00	106.46	-6.5	20.0	PASS	PASS
Bromochloromethane	0.483	0.100	100.00	112.77	-12.8	30.0	PASS	PASS
Trichloroethene (TCE)	1.189	0.100	100.00	101.83	-1.8	30.0	PASS	PASS
Dibromofluoromethane	1.539	0.100	50.00	45.77	8.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.513	0.100	50.00	47.02	6.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.740	0.100	100.00	104.74	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	1.946	0.100	100.00	103.52	-3.5	20.0	PASS	PASS
4-Methyl-2-pentanone	2.000	0.100	200.00	185.01	7.5	40.0	PASS	PASS
Toluene-d8	1.753	0.100	50.00	46.24	7.5	30.0	PASS	PASS

7-7-14

7/7/14

Analyst: RAA

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.715	0.100	100.00	106.71	-6.7	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.732	0.100	200.00	127.89	36.1	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.357	0.100	100.00	113.62	-13.6	30.0	PASS	PASS
cis-1,3-dichloropropene	2.197	0.100	100.00	104.89	-4.9	30.0	PASS	PASS
2-Hexanone	0.845	0.100	200.00	159.63	20.2	40.0	PASS	PASS
Bromodichloromethane	2.543	0.100	100.00	103.59	-3.6	30.0	PASS	PASS
Dibromomethane	1.192	0.100	100.00	103.54	-3.5	30.0	PASS	PASS
1,3-Dichloropropane	1.545	0.100	100.00	103.38	-3.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.836	0.100	100.00	103.71	-3.7	30.0	PASS	PASS
Ethylbenzene	3.068	0.100	100.00	107.47	-7.5	20.0	PASS	PASS
mp-Xylenes	2.810	0.100	200.00	211.28	-5.6	30.0	PASS	PASS
1,1,2-Trichloroethane	1.777	0.100	100.00	100.74	-0.7	30.0	PASS	PASS
Chlorobenzene	1.373	0.300	100.00	110.59	-10.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.443	0.100	100.00	98.10	1.9	30.0	PASS	PASS
o-Xylene	2.732	0.100	100.00	104.47	-4.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.369	0.100	100.00	106.77	-6.8	30.0	PASS	PASS
Dibromochloromethane	1.338	0.100	100.00	105.19	-5.2	30.0	PASS	PASS
Isopropylbenzene	2.720	0.100	100.00	107.92	-7.9	30.0	PASS	PASS
Styrene	1.281	0.100	100.00	103.72	-3.7	30.0	PASS	PASS
n-Propylbenzene	6.319	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.587	0.100	100.00	108.23	-8.2	30.0	PASS	PASS
tert-Butylbenzene	5.002	0.100	100.00	106.21	-6.2	30.0	PASS	PASS
2-Chlorotoluene	1.534	0.100	100.00	105.50	-5.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.824	0.100	50.00	45.37	9.3	30.0	PASS	PASS
sec-Butylbenzene	3.153	0.100	100.00	85.45	14.5	30.0	PASS	PASS
4-Chlorotoluene	1.644	0.100	100.00	101.04	-1.0	30.0	PASS	PASS
Bromobenzene	1.483	0.100	100.00	112.46	-12.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.826	0.100	100.00	106.89	-6.9	30.0	PASS	PASS
4-Isopropyltoluene	4.866	0.100	100.00	102.46	-2.5	30.0	PASS	PASS
Bromoform	1.690	0.100	100.00	91.52	8.5	30.0	PASS	PASS
1,2,3-Trichloropropane	1.333	0.100	100.00	92.93	7.1	30.0	PASS	PASS
n-Butylbenzene	4.714	0.100	100.00	102.68	-2.7	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.904	0.300	100.00	95.15	4.8	30.0	PASS	PASS
1,3-Dichlorobenzene	2.142	0.100	100.00	104.88	-4.9	30.0	PASS	PASS
1,4-Dichlorobenzene	2.116	0.100	100.00	105.70	-5.7	30.0	PASS	PASS
1,2-Dichlorobenzene	2.088	0.100	100.00	107.62	-7.6	30.0	PASS	PASS
Hexachlorobutadiene	4.753	0.100	100.00	104.08	-4.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.805	0.100	100.00	90.17	9.8	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.655	0.100	100.00	107.77	-7.8	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.690	0.100	100.00	106.55	-6.6	30.0	PASS	PASS
Naphthalene	3.043	0.100	100.00	93.32	6.7	30.0	PASS	PASS
2-Methylnaphthalene	2.449	0.100	100.00	97.75	2.2	40.0	PASS	PASS
1-Methylnaphthalene	2.266	0.100	100.00	95.43	4.6	40.0	PASS	PASS

RAA 7-7-14

DB7/8/14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

rerun on a different instrument cg 7-2-14

Analyst: cadg

JB 7/3/14

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

cdg 7.2.14

✓ NB 7/3/14

Analyst: cadg

eneric SampleList Printout - Wed Jul 02 18:45:26 2014

mpleList: C:\AgilentWS\070214m.smp

eated: Wed Jul 02 09:33:21 2014
dified: Wed Jul 02 18:45:22 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	b3	none kwm @10:50
4	10ppb 5035 ccv	below @11:28
	Notes V-54-0432	
5	lcs-14027	below
	Notes V-11-8032 (10ppb)	
6	mb-14027	none kwm @12:27
7	1407066-001a	below
	Notes x1 low level pb14027	
8	1407066-002a	below
	Notes x1 low level pb14027	
9	1407066-003a	below
	Notes x1 low level pb14027	
10	1407066-004a	below
	Notes x1 low level pb14027	
11	1407066-005a	below
	Notes x1 low level pb14027	
12	1407066-006a	below
	Notes x1 low level pb14027	
13	1407066-007a	below
	Notes x1 low level pb14027	
14	1407066-001ams	below
	Notes x1 low level pb14027 V-11-8032	
15	1407066-001amsd	below
	Notes x1 low level pb14027 V-11-8032	
16	1407139-001a	below
	Notes x1 low level pb14027	
17	1407139-002a	below
	Notes x1 low level pb14027	
18	1407139-003a	below
	Notes x1 low level pb14027	
19	1407139-004a	below
	Notes x1 low level pb14027	
20	1407139-005a	below
	Notes x1 low level pb14027	
21	1407139-006a	below
	Notes x1 low level pb14027	
22	1407139-007a	below
	Notes x1 low level pb14027	
23	1407139-008a	below
	Notes x1 low level pb14027	
24	1407139-009a	below
	Notes x1 low level pb14027	
25	1407139-010a	below
	Notes x1 low level pb14027	
26	1407139-011a	below
	Notes x1 low level pb14027 @11:03	
27	b4	none
28	b5	none kwm @12:03
29	10ppb ccv	below
	Notes V-54-0432 @12:32	
30	b6	none
31	1407139-001ams	below
	Notes x1 low level pb14027 V-11-8032 r1	
32	1407139-001amsd	below
	Notes x1 low level pb14027 V-11-8032 @2:01	
33	b7	none
34	b8	none
35		

hard calc

Loaded By: cg 7.2.14
1st Review By: cg 7.3.14
QA'd By: WB 7/7/14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\070214m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 7-1-14

Calibration Name: 0701L14.RD 5035-8260 Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☑	☐	☐	☑	
Chloromethane	☑	☐	☐	☑	
Vinyl chloride	☑	☐	☐	☑	
Chloroethane	☑	☐	☐	☑	
Bromomethane	☑	☐	☐	☑	
Trichlorofluoromethane	☑	☐	☐	☑	
1,1-Dichloroethene	☑	☐	☐	☑	
Acetone	☑	☐	☐	☑	
Carbon disulfide	☑	☐	☐	☑	
Iodomethane	☑	☐	☑	☐	UQL = 100ppb
Methyl tert-butyl ehter (MTBE)	☑	☐	☑	☐	UQL = 40ppb
Isopropyl ether	☑	☐	☑	☐	UQL = 500ppb
tert-Butyl alcohol	☑	☐	☑	☐	UQL = 1000ppb
trans-1,2-DCE	☑	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☑	☐	☑	☐	UQL = 100ppb
1,1-Dichloroethane	☑	☐	☑	☐	PQL = 2ppb UQL = 500ppb
Methylene Chloride	☑	☐	☐	☑	
Vinyl acetate	☑	☐	☐	☑	
2,2-Dichloropropane	☐	☑	☑	☐	rerun on different instrument
2-Butanone	☑	☐	☐	☑	
1,1,1-Trichloroethane	☑	☐	☐	☑	
1,1-Dichloropropene	☑	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☑	☐	☑	☐	UQL = 500ppb
Carbon Tetrachloride	☑	☐	☐	☑	
cis-1,2-DCE	☑	☐	☐	☑	
Benzene	☑	☐	☐	☑	
Chloroform	☑	☐	☐	☑	
Bromochloromethane	☑	☐	☐	☑	
Trichloroethene (TCE)	☑	☐	☐	☑	
Dibromofluoromethane	N/A	N/A	☐	☑	
1,2-Dichloroethane-d4	N/A	N/A	☐	☑	
1,2-Dichloroethane (EDC)	☑	☐	☐	☑	
1,2-Dichloropropane	☑	☐	☐	☑	
4-Methyl-2-pentanone	☑	☐	☐	☑	
Toluene-d8	N/A	N/A	☐	☑	
Toluene	☑	☐	☑	☐	
2-Choroethyl vinyl ether	☑	☐	☑	☐	UQL = 100ppb
cis-1,3-dichloropropene	☑	☐	☐	☑	
Bromodichloromethane	☑	☐	☐	☑	
Dibromomethane	☑	☐	☑	☐	UQL = 500ppb
2-Hexanone	☑	☐	☐	☑	
Tetrachloroethene (PCE)	☑	☐	☐	☑	
1,3-Dichloropropane	☑	☐	☐	☑	
trans-1,3-dichloropropene	☑	☐	☐	☑	
Ethylbenzene	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☑	☐	UQL = 50 ppb
Chlorobenzene	☐	☐	☐	☑	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	UQL = 50 ppb
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☑	☐	UQL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☐	☐	
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: CO 7-2-14

QA: [signature] NB 7/3/14

Additional Comments:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\data\2014\0714m\070214m\10ppb 5035 ccv 7-2-2014.SMS Lab Sample ID: 10ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 7/2/2014 Time Analyzed: 11:28

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	39129	7.14	56248	13.45	21182	17.03						
UPPER LIMIT	78258	7.64	112496	13.95	42364	17.53						
LOWER LIMIT	19565	6.64	28124	12.95	10591	16.53						
EPA SAMPLE NO												
b1 7-2-201	41983	7.13	58313	13.45	22398	17.03						
b2 7-2-201	42926	7.14	58115	13.45	22940	17.03						
b3 7-2-201	42126	7.14	59859	13.45	22718	17.03						
lcs-14027	38997	7.14	56044	13.45	20586	17.03						
mb-14027 7	39364	7.14	57187	13.45	20365	17.03						
1407066-00	23260	7.14	31044	13.45	11129	17.04						
1407066-00	26730	7.14	37036	13.45	12775	17.04						
1407066-00	25542	7.14	33746	13.45	12523	17.04						
1407066-00	26194	7.14	35705	13.45	12573	17.03						
1407066-00	37609	7.14	51384	13.45	19830	17.04						
1407066-00	37115	7.14	50952	13.45	19518	17.04						
1407066-00	23209	7.14	30488	13.45	11274	17.04						
1407066-00	37691	7.14	53351	13.45	19133	17.04						
1407066-00	43667	7.14	61290	13.45	22531	17.04						
1407066-00	28774	7.13	39200	13.45	13673	17.03						
1407139-00	24153	7.14	31966	13.45	12507	17.03						

cadg 7-3-14

JB 7/7/14

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1407139-00	29107	7.14	41444	13.45	15607	17.03						
1407139-00	24569	7.14	33506	13.45	12870	17.04						
1407139-00	22980	7.14	31920	13.45	11721	17.04						
1407139-00	24635	7.14	35318	13.45	12598	17.04						
1407139-00	29358	7.14	42133	13.46	15390	17.04						
1407139-00	27036	7.14	33763	13.46	13070	17.04						
1407139-00	26447	7.14	35205	13.46	13295	17.03						
1407139-01	22562	7.14	29989	13.45	11816	17.04						
1407139-01	20779	7.14	29128	13.45	11370	17.04						
b4 7-2-201	38713	7.14	51662	13.45	20063	17.03						
b5 7-3-201	37721	7.14	49633	13.45	20284	17.03						
10ppb ccv	37992	7.14	56438	13.45	21249	17.04						
b6 7-3-201	42409	7.14	55128	13.45	20119	17.03						
1407139-00	38059	7.14	55215	13.45	20275	17.04						
1407139-00	39432	7.14	56410	13.45	19268	17.04						
b7 7-3-201	36009	7.14	50671	13.45	19175	17.03						
b8 7-3-201	37108	7.14	51870	13.45	18856	17.03						

cg 7.3.14

DB 7/7/14

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ata\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.sms Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
10ppb 5035	39129	7.14	56248	13.45	21182	17.03						

cg 7.3.14

JB 7/7/14

IS 1 = Pentafluorobenzene

IS 2 = Benzene-d5-, chloro-

IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 7/2/2014 Time: 11:28

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:37 20:37

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Lab File ID: c:\agilentws\data\10ppb 5035 ccv 7-2-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.453	0.100	10.00	10.07	-0.7	30.0	PASS	PASS
Chloromethane	12.894	0.100	10.00	11.70	-17.0	30.0	PASS	PASS
Vinyl chloride	14.502	0.100	10.00	10.81	-8.1	20.0	PASS	PASS
Chloroethane	2.363	0.100	10.00	10.06	-0.6	30.0	PASS	PASS
Bromomethane	2.539	0.100	10.00	8.08	19.2	30.0	PASS	PASS
Trichlorofluoromethane	2.705	0.100	10.00	9.19	8.1	30.0	PASS	PASS
1,1-Dichloroethene	7.256	0.100	10.00	10.02	-0.2	20.0	PASS	PASS
Acetone	2.804	0.100	20.00	16.20	19.0	40.0	PASS	PASS
Carbon disulfide	5.673	0.100	20.00	21.25	-6.2	40.0	PASS	PASS
Iodomethane	8.089	0.100	20.00	17.49	12.5	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	5.342	0.100	20.00	14.51	27.5	30.0	PASS	PASS
Isopropyl ether	36.923	0.100	20.00	22.08	-10.4	40.0	PASS	PASS
tert-Butyl alcohol	0.364	0.100	200.00	101.58	49.2	40.0	FAIL	PASS
trans-1,2-DCE	13.793	0.100	10.00	9.61	3.9	30.0	PASS	PASS
tert-Butyl ethyl ether	118.814	0.100	20.00	23.58	-17.9	40.0	PASS	PASS
Methylene Chloride	13.099	0.100	10.00	15.66	-56.6	30.0	FAIL	PASS
1,1-Dichloroethane	1.843	0.100	10.00	8.64	13.6	30.0	PASS	PASS
Vinyl acetate	20.164	0.100	20.00	22.95	-14.8	40.0	PASS	PASS
2,2-Dichloropropane	0.693	0.100	10.00	3.03	69.7	30.0	FAIL	PASS
2-Butanone	6.989	0.100	20.00	15.93	20.4	40.0	PASS	PASS
1,1,1-Trichloroethane	4.317	0.100	10.00	9.24	7.6	30.0	PASS	PASS
1,1-Dichloropropene	7.619	0.100	10.00	9.98	0.2	30.0	PASS	PASS
tert-Amyl methyl ether	35.687	0.100	20.00	23.34	-16.7	40.0	PASS	PASS
Carbon Tetrachloride	1.920	0.100	10.00	10.15	-1.5	30.0	PASS	PASS
cis-1,2-DCE	2.954	0.100	10.00	10.09	-0.9	30.0	PASS	PASS
Benzene	10.234	0.100	10.00	10.19	-1.9	30.0	PASS	PASS
Chloroform	5.000	0.100	10.00	9.55	4.5	20.0	PASS	PASS
Bromochloromethane	4.585	0.100	10.00	11.59	-15.9	30.0	PASS	PASS
Trichloroethene (TCE)	16.437	0.100	10.00	10.27	-2.7	30.0	PASS	PASS
Dibromofluoromethane	3.148	0.100	20.00	20.98	-4.9	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.313	0.100	20.00	22.36	-11.8	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	72.419	0.100	10.00	11.21	-12.1	30.0	PASS	PASS
1,2-Dichloropropane	20.855	0.100	10.00	11.27	-12.7	20.0	PASS	PASS
4-Methyl-2-pentanone	6.622	0.100	20.00	19.72	1.4	40.0	PASS	PASS
Toluene-d8	1.821	0.100	20.00	19.40	3.0	30.0	PASS	PASS

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.969	0.100	10.00	10.17	-1.7	20.0	PASS	PASS
2-Chloroethyl vinyl ether	7.427	0.100	20.00	19.61	2.0	40.0	PASS	PASS
cis-1,3-dichloropropene	17.436	0.100	10.00	10.12	-1.2	30.0	PASS	PASS
Bromodichloromethane	3.215	0.100	10.00	10.80	-8.0	30.0	PASS	PASS
2-Hexanone	18.026	0.100	20.00	19.57	2.2	40.0	PASS	PASS
Tetrachloroethene (PCE)	3.024	0.100	10.00	9.81	1.9	30.0	PASS	PASS
Dibromomethane	6.539	0.100	10.00	11.83	-18.3	30.0	PASS	PASS
1,3-Dichloropropane	6.337	0.100	10.00	10.90	-9.0	30.0	PASS	PASS
trans-1,3-dichloropropene	3.363	0.100	10.00	10.53	-5.3	30.0	PASS	PASS
Ethylbenzene	12.431	0.100	10.00	9.94	0.6	20.0	PASS	PASS
mp-Xylenes	10.773	0.100	20.00	19.97	0.2	30.0	PASS	PASS
1,1,2-Trichloroethane	7.503	0.100	10.00	10.76	-7.6	30.0	PASS	PASS
Chlorobenzene	5.802	0.300	10.00	10.32	-3.2	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.969	0.100	10.00	11.66	-16.6	30.0	PASS	PASS
o-Xylene	11.466	0.100	10.00	10.21	-2.1	30.0	PASS	PASS
Dibromochloromethane	1.676	0.100	10.00	10.75	-7.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.719	0.100	10.00	10.83	-8.3	30.0	PASS	PASS
Isopropylbenzene	11.200	0.100	10.00	10.00	0.0	30.0	PASS	PASS
Styrene	5.552	0.100	10.00	9.59	4.1	30.0	PASS	PASS
n-Propylbenzene	38.485	0.100	10.00	9.97	0.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	28.435	0.100	10.00	10.07	-0.7	30.0	PASS	PASS
tert-Butylbenzene	30.412	0.100	10.00	9.49	5.1	30.0	PASS	PASS
2-Chlorotoluene	9.546	0.100	10.00	10.13	-1.3	30.0	PASS	PASS
4-Bromofluorobenzene	2.541	0.100	20.00	19.78	1.1	30.0	PASS	PASS
Bromobenzene	45.018	0.100	10.00	11.09	-10.9	30.0	PASS	PASS
4-Chlorotoluene	68.227	0.100	10.00	10.82	-8.2	30.0	PASS	PASS
sec-Butylbenzene	37.107	0.100	10.00	9.11	8.9	30.0	PASS	PASS
1,2,4-Trimethylbenzene	90.326	0.100	10.00	9.91	0.9	30.0	PASS	PASS
4-Isopropyltoluene	30.025	0.100	10.00	9.83	1.7	30.0	PASS	PASS
Bromoform	11.853	0.100	10.00	9.66	3.4	30.0	PASS	PASS
1,2,3-Trichloropropane	14.001	0.100	10.00	9.97	0.3	30.0	PASS	PASS
n-Butylbenzene	51.992	0.100	10.00	10.63	-6.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	48.138	0.300	10.00	10.11	-1.1	30.0	PASS	PASS
1,3-Dichlorobenzene	12.991	0.100	10.00	10.17	-1.7	30.0	PASS	PASS
1,4-Dichlorobenzene	12.224	0.100	10.00	10.13	-1.3	30.0	PASS	PASS
1,2-Dichlorobenzene	12.724	0.100	10.00	10.35	-3.5	30.0	PASS	PASS
Hexachlorobutadiene	27.300	0.100	10.00	9.70	3.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	11.814	0.100	10.00	9.00	10.0	30.0	PASS	PASS
1,2,4-Trichlorobenzene	40.522	0.100	10.00	10.94	-9.4	30.0	PASS	PASS
Naphthalene	17.797	0.100	10.00	9.59	4.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	36.514	0.100	10.00	11.80	-18.0	30.0	PASS	PASS
2-Methylnaphthalene	31.985	0.100	10.00	8.95	10.5	40.0	PASS	PASS
1-Methylnaphthalene	43.761	0.100	10.00	9.01	9.9	40.0	PASS	PASS

cg 7-3-14

✓ DB 7/7/14

Analyst: cadg

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported: 7.7.14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001
Client Sample ID: FFOR-CF-0009
Collection Date: 7/1/2014 9:43:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Aniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Carbazole	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Chrysene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Di-n-octyl phthalate	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dichlorophenol	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Fluorene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Hexachloroethane	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Isophorone	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Methylphenol	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3+4-Methylphenol	0.077	0.21	J	mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodi-n-propylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Naphthalene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Nitroaniline	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Nitrobenzene	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pentachlorophenol	ND	0.42		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Phenanthrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Phenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pyrene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Pyridine	ND	0.53		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	14033	7/3/2014 1:35:00 PM
Surr: 2-Fluorophenol	66.6	27.9-127		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: Phenol-d5	79.2	24.5-126		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 2,4,6-Tribromophenol	62.4	27.6-136		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: Nitrobenzene-d5	78.2	23.5-128		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 2-Fluorobiphenyl	78.8	22.6-132		%REC	1	14033	7/3/2014 1:35:00 PM
Surr: 4-Terphenyl-d14	75.2	28.1-128		%REC	1	14033	7/3/2014 1:35:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benz(a)anthracene	0.11	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(a)pyrene	0.080	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(b)fluoranthene	0.095	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(g,h,i)perylene	0.16	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Chrysene	0.064	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Fluorene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Indeno(1,2,3-cd)pyrene	0.16	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Isophorone	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3+4-Methylphenol	0.075	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Naphthalene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
4-Nitrophenol	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Phenanthrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Phenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pyrene	0.064	0.22	J	mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Pyridine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 3:02:42 PM
Surr: 2-Fluorophenol	61.6	27.9-127		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: Phenol-d5	71.0	24.5-126		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 2,4,6-Tribromophenol	55.8	27.6-136		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: Nitrobenzene-d5	66.1	23.5-128		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 2-Fluorobiphenyl	66.6	22.6-132		%REC	1	14033	7/3/2014 3:02:42 PM
Surr: 4-Terphenyl-d14	65.4	28.1-128		%REC	1	14033	7/3/2014 3:02:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Aniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benz(a)anthracene	0.21	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(a)pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(b)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(g,h,i)perylene	0.18	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Chrysene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Di-n-octyl phthalate	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dichlorophenol	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dimethylphenol	ND	0.66		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Indeno(1,2,3-cd)pyrene	0.17	0.44	J	mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Methylnaphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Naphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Nitroaniline	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
4-Nitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pentachlorophenol	ND	0.88		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Phenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 3:31:58 PM
Surr: 2-Fluorophenol	73.8	27.9-127		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: Phenol-d5	75.6	24.5-126		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 2,4,6-Tribromophenol	57.8	27.6-136		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: Nitrobenzene-d5	78.6	23.5-128		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 2-Fluorobiphenyl	78.1	22.6-132		%REC	1	14033	7/3/2014 3:31:58 PM
Surr: 4-Terphenyl-d14	69.9	28.1-128		%REC	1	14033	7/3/2014 3:31:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Isophorone	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Phenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Pyridine	ND	0.55	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 4:01:18 PM
Surr: 2-Fluorophenol	60.5	27.9-127	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: Phenol-d5	67.2	24.5-126	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 2,4,6-Tribromophenol	49.7	27.6-136	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: Nitrobenzene-d5	64.9	23.5-128	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 2-Fluorobiphenyl	67.3	22.6-132	%REC	1	14033	7/3/2014 4:01:18 PM
Surr: 4-Terphenyl-d14	64.4	28.1-128	%REC	1	14033	7/3/2014 4:01:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-005
Client Sample ID: FFOR-CF-0013
Collection Date: 7/1/2014 11:41:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Acenaphthylene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Aniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benz(a)anthracene	0.20	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(a)pyrene	0.15	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(b)fluoranthene	0.17	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(g,h,i)perylene	0.30	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Benzo(k)fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroethoxy)methane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroethyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-chloroisopropyl)ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Bromophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Butyl benzyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Carbazole	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Chloronaphthalene	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Chlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Chlorophenyl phenyl ether	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Chrysene	0.14	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Di-n-octyl phthalate	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dibenz(a,h)anthracene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dibenzofuran	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,2-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,3-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,4-Dichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3,3'-Dichlorobenzidine	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Diethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Dimethyl phthalate	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dichlorophenol	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dimethylphenol	ND	0.66		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **DAM**

Fluoranthene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Fluorene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorobutadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachlorocyclopentadiene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Hexachloroethane	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Indeno(1,2,3-cd)pyrene	0.22	0.44	J	mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Methylnaphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3+4-Methylphenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodi-n-propylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodimethylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
N-Nitrosodiphenylamine	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Naphthalene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
3-Nitroaniline	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Nitroaniline	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2-Nitrophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
4-Nitrophenol	ND	0.55		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pentachlorophenol	ND	0.87		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Phenanthrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Phenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pyrene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
1,2,4-Trichlorobenzene	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4,5-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
2,4,6-Trichlorophenol	ND	0.44		mg/Kg-dry	1	14033	7/3/2014 4:30:44 PM
Surr: 2-Fluorophenol	70.7	27.9-127		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: Phenol-d5	73.1	24.5-126		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 2,4,6-Tribromophenol	54.3	27.6-136		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: Nitrobenzene-d5	74.4	23.5-128		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 2-Fluorobiphenyl	74.9	22.6-132		%REC	1	14033	7/3/2014 4:30:44 PM
Surr: 4-Terphenyl-d14	68.4	28.1-128		%REC	1	14033	7/3/2014 4:30:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006
Client Sample ID: FFOR-CF-0014
Collection Date: 7/1/2014 11:51:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Acenaphthylene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Aniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Anthracene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benz(a)anthracene	0.34	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(a)pyrene	0.55	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(b)fluoranthene	0.77	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(g,h,i)perylene	1.4	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Benzo(k)fluoranthene	0.28	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroethoxy)methane	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroethyl)ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-chloroisopropyl)ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Bromophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Butyl benzyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Carbazole	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chloro-3-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chloroaniline	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Chloronaphthalene	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Chlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Chlorophenyl phenyl ether	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Chrysene	0.65	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Di-n-butyl phthalate	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Di-n-octyl phthalate	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dibenz(a,h)anthracene	0.33	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dibenzofuran	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,2-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,3-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,4-Dichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3,3'-Dichlorobenzidine	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Diethyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Dimethyl phthalate	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dichlorophenol	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dimethylphenol	ND	0.65		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4,6-Dinitro-2-methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,6-Dinitrotoluene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.35	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Fluorene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorobutadiene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachlorocyclopentadiene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Hexachloroethane	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Indeno(1,2,3-cd)pyrene	1.2	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Isophorone	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Methylnaphthalene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Methylphenol	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3+4-Methylphenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodi-n-propylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodimethylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
N-Nitrosodiphenylamine	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Naphthalene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Nitroaniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
3-Nitroaniline	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Nitroaniline	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Nitrobenzene	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2-Nitrophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
4-Nitrophenol	ND	0.54		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pentachlorophenol	ND	0.86		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Phenanthrene	0.091	0.43	J	mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Phenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pyrene	0.44	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Pyridine	ND	1.1		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
1,2,4-Trichlorobenzene	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4,5-Trichlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
2,4,6-Trichlorophenol	ND	0.43		mg/Kg-dry	1	14033	7/3/2014 5:00:06 PM
Surr: 2-Fluorophenol	70.1	27.9-127		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: Phenol-d5	74.3	24.5-126		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 2,4,6-Tribromophenol	48.8	27.6-136		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: Nitrobenzene-d5	76.0	23.5-128		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 2-Fluorobiphenyl	76.0	22.6-132		%REC	1	14033	7/3/2014 5:00:06 PM
Surr: 4-Terphenyl-d14	71.7	28.1-128		%REC	1	14033	7/3/2014 5:00:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: LEVEL III DUE 07/07/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Aniline	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Di-n-butyl phthalate	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407066
Project: Kirtland AFB

Comment: LEVEL III DUE 07/07/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Isophorone	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Methylphenol	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Nitroaniline	ND	0.45	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Nitrobenzene	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pentachlorophenol	ND	0.45	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Phenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Pyridine	ND	0.56	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14033	7/3/2014 5:29:23 PM
Surr: 2-Fluorophenol	39.6	27.9-127	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: Phenol-d5	44.1	24.5-126	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 2,4,6-Tribromophenol	42.8	27.6-136	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: Nitrobenzene-d5	44.8	23.5-128	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 2-Fluorobiphenyl	47.8	22.6-132	%REC	1	14033	7/3/2014 5:29:23 PM
Surr: 4-Terphenyl-d14	59.1	28.1-128	%REC	1	14033	7/3/2014 5:29:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

PREP BATCH REPORT

Hall Environmental Analysis Laboratory

Extraction Method 3540

Time Started: 12:00
Time Ended: 6:00

Reviewed By: dam 7/7/14

Prep Start Date: 7/5/2014 7:46:22 A
Prep End Date:

Prep Factor Units: mL / g

Prep Batch ID: 14071 Prep Code: 8270SOX_PR Method No: 3540 Technician: Steve Crandell

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14071	SC7.5	Soil			30	0	0	dam 1	0.033	7/5/2014	
LCS-14071		Soil			30	0	0	7/7 1	0.033	7/5/2014	
1407139-001A	FFOR-CF-0016	MeOH (Soil)			30.16	0	0	2	0.033	7/5/2014	
1407139-001AMS		MeOH (Soil)			30.59	0	0	2	0.033	7/5/2014	
1407139-001AMSD		MeOH (Soil)			30.02	0	0	2	0.033	7/5/2014	
1407139-002A	FFOR-CF-0017	MeOH (Soil)			30.13	0	0	1	0.033	7/5/2014	
1407139-003A	FFOR-CF-0018	MeOH (Soil)			30.07	0	0	1	0.033	7/5/2014	
1407139-004A	FFOR-CF-0019	MeOH (Soil)			30.30	0	0	2	0.033	7/5/2014	
1407139-005A	FFOR-CF-0020	MeOH (Soil)			30.39	0	0	1	0.033	7/5/2014	
1407139-006A	FFOR-CF-0021	MeOH (Soil)			30.20	0	0	1	0.033	7/5/2014	
1407139-007A	FFOR-CF-0022	MeOH (Soil)			30.05	0	0	1	0.033	7/5/2014	
1407139-008A	FFOR-CF-0023	MeOH (Soil)			30.26	0	0	1	0.033	7/5/2014	
1407139-009A	FFOR-CF-0024	MeOH (Soil)			30.12	0	0	10	0.033	7/5/2014	
1407139-010A	FFOR-CF-0025	MeOH (Soil)			30.33	0	0	1	0.033	7/5/2014	
1407139-011A	FFOR-CF-0026	MeOH (Soil)			29.91	0	0	1	0.033	7/5/2014	
1407188-001A	FFOR-CF-0027	MeOH (Soil)			30.11	0	0	1	0.033	7/5/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4642	Sodium Sulfate	14881	Container-01 of 02	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
[illegible]	8270 Internal Standard	SAMP	24702	Container-01 of 01	20 dam 7/7	µL
[illegible]	8270 SIM Surrogate	SAMP	24703	Container-01 of 01	500 SC7.5	µL
[illegible]	8270 SIM Surrogate	LCS	24750	Container-01 of 01	500	µL

arian Star Workstation - 8400 SampleList Mon Jul 07 14:05:18 2014

ampleList: C:\VarianWS\070714.smp

reated: Mon Jul 07 08:36:25 2014
odified: Mon Jul 07 14:05:14 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm ll	1	below	1	1.0
	Notes sv110-0562				
3	50ppm	1	below	2	1.0
	Notes sv110-0594				
4	1407007-001b	1	below	3	1.0
	Notes x5 aq				
5	1407007-002b	1	below	4	1.0
	Notes x10 aq				
6	1407007-002b	1	below	5	1.0
	Notes x20 aq				
7	mb-14071	1	below	6	1.0
	Notes soil				
8	lcs-14071	1	below	7	1.0
	Notes soil				
9	1407139-007a	1	below	8	1.0
	Notes x1 soil				
10	1407139-008a	1	below	9	1.0
	Notes x1 soil				
11	1407139-010a	1	below	10	1.0
	Notes x1 soil				
12	1407139-011a	1	below	11	1.0
	Notes x1 soil				
13	1407188-001a	1	below	12	1.0
	Notes x1 soil FV=2ml				
14	1407139-001a	1	below	13	1.0
	Notes x1 soil FV=2ml				
15	1407139-001ams	1	below	14	1.0
	Notes x1 soil FV=2ml				
16	1407139-001amsd	1	below	15	1.0
	Notes x1 soil FV=2ml				
17	1407139-002a	1	below	16	1.0
	Notes x1 soil				
18	1407139-003a	1	below	17	1.0
	Notes x1 soil				
19	1407139-004a	1	below	18	1.0
	Notes x1 soil FV=2ml				
20	1407139-005a	1	below	19	1.0
	Notes x1 soil				
21	1407139-009a	1	below	20	1.0
	Notes x1 soil FV=10mL				
22	1407139-006a	1	below	21	1.0
	Notes x1 soil				
23					

dam 7/7/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\070714.rcl.

7.8.14

Calibration Summary

Instrument: ELMO Date: 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: _____ and _____.

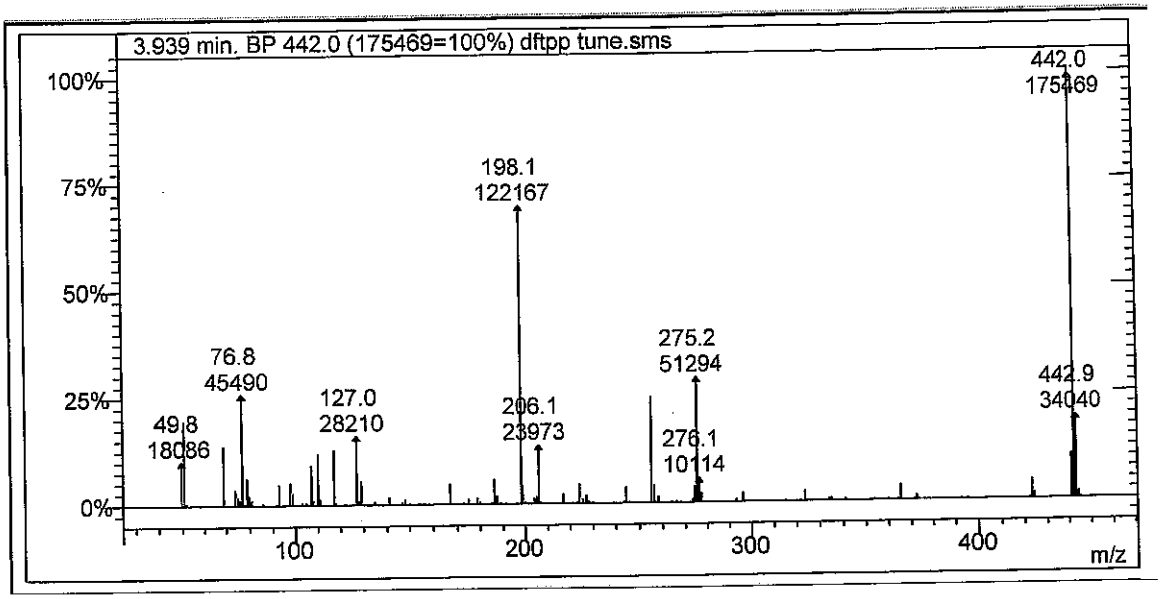
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/7/2014

Injection Time: 8:40

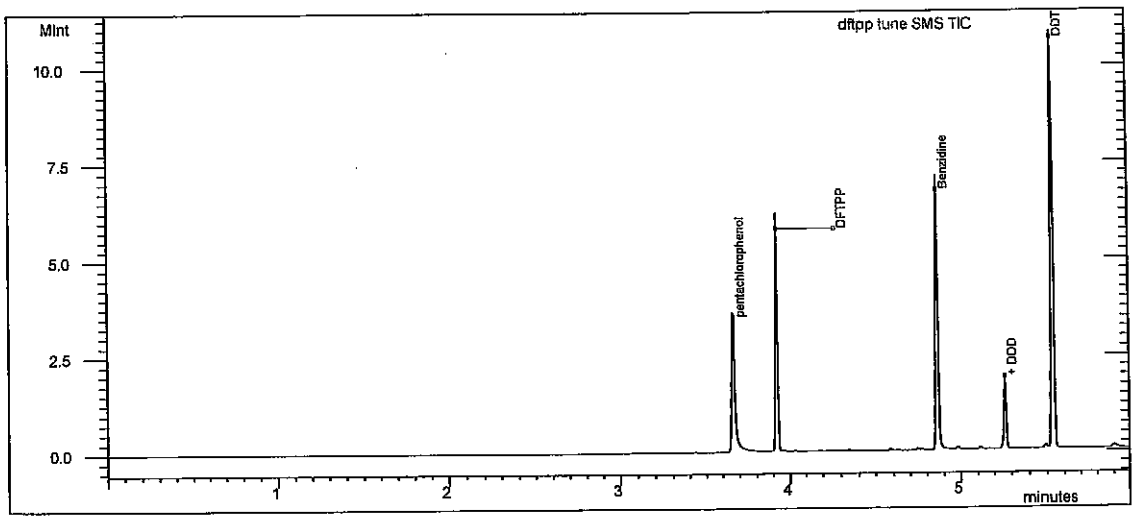
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.65	PASS
68	<2% of m/z 69	0.40	PASS
69	Present	13.81	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	16.08	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	69.62	PASS
199	5-9% of m/z 198	5.99	PASS
275	10-60% of base peak	29.23	PASS
365	>1% of base peak	3.58	PASS
441	Present and <m/z 443	53.81	PASS
442	>50% of m/z 198	143.63	PASS
443	15-24% of m/z 442	19.40	PASS

dm 7/8/14

TC 7.8.14

Degradation Report

Acquisition Date:	7/7/2014 8:40:25 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.535	2.875E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.264	459630	5
DDE	4.985	5174	6

% Degradation of DDT : = 13.917

<20

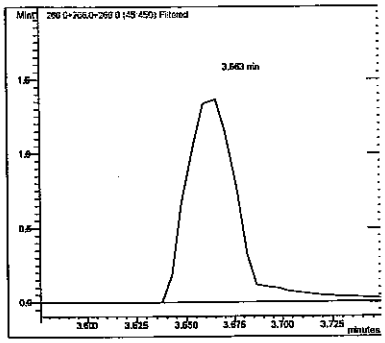
✓ dam 7/7/14

7.8.14

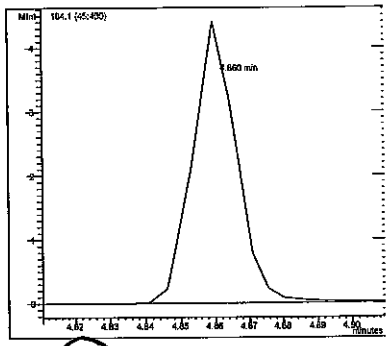
Tailing and Gaussian Factor Report

Acquisition Date: 7/7/2014 8:40:25 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.663 Area = 2.580E6



Benzidine
RT = 4.86 Area = 3.885E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.663	2.152	0.749
Benzidine	4.860	1.151	0.928

#	Compound Name	RT	Area
1	pentachlorophenol	3.663	2.580E6
3	Benzidine	4.860	3.885E6

dam 7/7/14

JC 7.8.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm	168914	5.19	565521	6.92	270674	9.51	482912	11.76	548593	15.77	660141	17.93

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dmm 7/7/14

JV 7-8-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\070714\50ppm .SMS Lab Sample ID: 50ppm

Instrument ID: ELMO Date Analyzed: 7/7/2014 Time Analyzed: 09:23

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	168914	5.19	565521	6.92	270674	9.51	482912	11.76	548593	15.77	660141	17.93
UPPER LIMIT	337828	5.69	1.131E6	7.42	541348	10.01	965824	12.26	1.097E6	16.27	1.320E6	18.43
LOWER LIMIT	84457	4.69	282761	6.42	135337	9.01	241456	11.26	274297	15.27	330071	17.43
EPA SAMPLE NO												
mb-14071	135434	5.19	453557	6.92	194754	9.52	384946	11.76	442723	15.78	512173	17.93
lcs-14071	105084	5.19	330323	6.91	144382	9.51	302975	11.76	315743	15.77	369726	17.93
1407139-00	107815	5.19	364040	6.91	158035	9.51	332058	11.75	338580	15.76	382122	17.92
1407139-00	120972	5.19	389742	6.91	167220	9.51	348905	11.76	391435	15.77	443240 D	17.93 D
1407139-01	116156	5.19	364552	6.91	149450	9.51	308313	11.75	357643	15.77	399571	17.92
1407139-01	117363	5.19	376455	6.92	160624	9.51	324604	11.76	373809	15.77	424587	17.93
1407188-00	107601	5.19	358581	6.92	153430	9.51	328906	11.76	384717	15.77	478737	17.93
1407139-00	100693	5.19	331372	6.92	134859 *	9.51	289369	11.76	311848	15.77	362035	17.93
1407139-00	119190	5.20	369831	6.92	156437	9.52	327289	11.76	342324	15.78	416780	17.93
1407139-00	110879	5.20	351430	6.92	150488	9.52	330767	11.77	340625	15.78	422570	17.94
1407139-00	116437	5.19	386006	6.92	167861	9.51	334611	11.76	377551	15.77	472036	17.93
1407139-00	104375	5.19	338453	6.91	145093	9.51	321687	11.76	340127	15.77	421080	17.93
1407139-00	107213	5.19	348544	6.91	146469	9.51	302005	11.76	314797	15.77	411974	17.93
1407139-00	97714	5.19	315853	6.92	144215	9.51	308345	11.76	357193	15.77	430796	17.93
1407139-00	96930	5.19	313852	6.92	140947	9.51	323675	11.76	380612	15.77	438085	17.93
1407139-00	99607	5.19	330373	6.92	141875	9.51	277552	11.76	273919 *	15.77	327324 *	17.93

dam 7/8/14

JU 7.8.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/7/2014 Time: 9:23

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm .sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.502	0.050	50.00	58.62	-17.2	40.0	PASS	PASS
Pyridine	10.629	0.050	50.00	58.56	-17.1	40.0	PASS	PASS
2-Fluorophenol	1.197	0.050	50.00	52.17	-4.3	40.0	PASS	PASS
Phenol-d5	1.145	0.050	50.00	52.43	-4.9	40.0	PASS	PASS
Phenol	1.267	0.050	50.00	51.75	-3.5	20.0	PASS	PASS
Aniline	3.682	0.050	50.00	44.98	10.0	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.105	0.050	50.00	52.65	-5.3	40.0	PASS	PASS
2-Chlorophenol	1.205	0.050	50.00	50.36	-0.7	40.0	PASS	PASS
1,3-Dichlorobenzene	1.540	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.568	0.050	50.00	55.00	-10.0	20.0	PASS	PASS
Benzyl alcohol	1.174	0.050	50.00	52.54	-5.1	40.0	PASS	PASS
1,2-Dichlorobenzene	1.478	0.050	50.00	52.59	-5.2	40.0	PASS	PASS
2-Methylphenol	1.002	0.050	50.00	51.35	-2.7	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.499	0.050	50.00	53.31	-6.6	40.0	PASS	PASS
3+4-Methylphenol	1.160	0.050	50.00	47.60	4.8	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.647	0.050	50.00	51.54	-3.1	40.0	PASS	PASS
Hexachloroethane	4.719	0.050	50.00	50.93	-1.9	40.0	PASS	PASS
Nitrobenzene-d5	0.304	0.050	50.00	49.38	1.2	40.0	PASS	PASS
Nitrobenzene	0.326	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
Isophorone	0.655	0.050	50.00	55.93	-11.9	40.0	PASS	PASS
2-Nitrophenol	0.306	0.050	50.00	49.27	1.5	20.0	PASS	PASS
2,4-Dimethylphenol	0.350	0.050	50.00	48.01	4.0	40.0	PASS	PASS
Benzoic acid	1.905	0.050	50.00	45.04	9.9	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.392	0.050	50.00	54.09	-8.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.363	0.050	50.00	51.40	-2.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.324	0.050	50.00	49.52	1.0	40.0	PASS	PASS
Naphthalene	0.889	0.050	50.00	53.59	-7.2	40.0	PASS	PASS
4-Chloroaniline	0.383	0.050	50.00	49.47	1.1	40.0	PASS	PASS
Hexachlorobutadiene	0.621	0.050	50.00	46.67	6.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.441	0.050	50.00	52.61	-5.2	20.0	PASS	PASS
2-Methylnaphthalene	0.261	0.050	50.00	51.76	-3.5	40.0	PASS	PASS
1-Methylnaphthalene	0.234	0.050	50.00	45.70	8.6	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.428	0.050	50.00	42.65	14.7	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.318	0.050	50.00	44.38	11.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.300	0.050	50.00	45.22	9.6	40.0	PASS	PASS
2-Fluorobiphenyl	1.512	0.050	50.00	49.29	1.4	40.0	PASS	PASS

dkm 7/7/14

JC 7-8-14

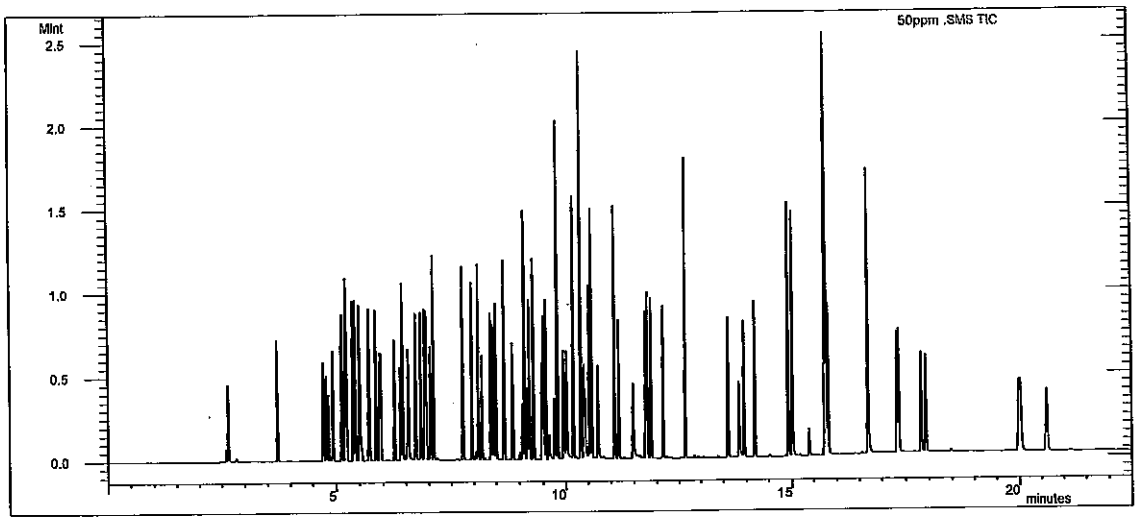
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.521	0.050	50.00	48.62	2.8	40.0	PASS	PASS
2-Nitroaniline	1.073	0.050	50.00	48.12	3.8	40.0	PASS	PASS
Dimethyl phthalate	2.956	0.050	50.00	51.35	-2.7	40.0	PASS	PASS
2,6-Dinitrotoluene	0.687	0.050	50.00	49.78	0.4	40.0	PASS	PASS
Acenaphthylene	1.897	0.050	50.00	48.69	2.6	40.0	PASS	PASS
3-Nitroaniline	1.072	0.050	50.00	49.25	1.5	40.0	PASS	PASS
Acenaphthene	1.205	0.050	50.00	47.69	4.6	20.0	PASS	PASS
2,4-Dinitrophenol	1.744	0.050	50.00	44.52	11.0	40.0	PASS	PASS
4-Nitrophenol	0.193	0.050	50.00	49.99	0.0	40.0	PASS	PASS
Dibenzofuran	0.819	0.050	50.00	44.56	10.9	40.0	PASS	PASS
2,4-Dinitrotoluene	0.346	0.050	50.00	46.83	6.3	40.0	PASS	PASS
Diethyl phthalate	2.406	0.050	50.00	47.65	4.7	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.718	0.050	50.00	42.99	14.0	40.0	PASS	PASS
Fluorene	2.399	0.050	50.00	46.15	7.7	40.0	PASS	PASS
4-Nitroaniline	1.895	0.050	50.00	49.05	1.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.312	0.050	50.00	54.86	-9.7	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.715	0.050	50.00	53.59	-7.2	20.0	PASS	PASS
Azobenzene	1.033	0.050	50.00	55.10	-10.2	40.0	PASS	PASS
2,4,6-Tribromophenol	1.765	0.050	50.00	53.23	-6.5	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.540	0.050	50.00	52.90	-5.8	40.0	PASS	PASS
Hexachlorobenzene	0.555	0.050	50.00	50.19	-0.4	40.0	PASS	PASS
Pentachlorophenol	1.482	0.050	50.00	52.34	-4.7	20.0	PASS	PASS
Phenanthrene	1.044	0.050	50.00	54.29	-8.6	40.0	PASS	PASS
Anthracene	1.072	0.050	50.00	55.01	-10.0	40.0	PASS	PASS
Carbazole	0.971	0.050	50.00	51.14	-2.3	40.0	PASS	PASS
Di-n-butyl phthalate	2.130	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Fluoranthene	0.899	0.050	50.00	48.26	3.5	20.0	PASS	PASS
Benzidine	0.502	0.050	50.00	45.13	9.7	40.0	PASS	PASS
Pyrene	0.784	0.050	50.00	47.33	5.3	40.0	PASS	PASS
4-Terphenyl-d14	1.102	0.050	50.00	46.09	7.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.988	0.050	50.00	52.09	-4.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.869	0.050	50.00	48.64	2.7	40.0	PASS	PASS
Benz[a]anthracene	1.620	0.050	50.00	44.83	10.3	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.999	0.050	50.00	42.10	15.8	40.0	PASS	PASS
Chrysene	1.806	0.050	50.00	43.81	12.4	40.0	PASS	PASS
Di-n-octyl phthalate	2.520	0.050	50.00	52.87	-5.7	20.0	PASS	PASS
Benzo(b)fluoranthene	1.425	0.050	50.00	49.26	1.5	40.0	PASS	PASS
Benzo[k]fluoranthene	1.469	0.050	50.00	50.58	-1.2	40.0	PASS	PASS
Benzo[a]pyrene	1.377	0.050	50.00	50.33	-0.7	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.850	0.050	50.00	48.90	2.2	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.735	0.050	50.00	50.59	-1.2	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.812	0.050	50.00	47.84	4.3	40.0	PASS	PASS

dam 7/7/14

TV 7/8/14

8270C Report

Sample Name:	50ppm	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	7/7/2014 9:23:58 AM
Calculation Date:	7/7/2014 9:46:29 AM				



dlm 7/7/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.192	428	Identified	168914	40.000
Naphthalene-d8 (I.S)	6.915	604	Identified	565521	40.000
Acenaphthene-d10 (I.S)	9.514	869	Identified	270674	40.000
Phenanthrene-d10	11.760	1101	Identified	482912	40.000
Chrysene-d12 I.S	15.775	1511	Identified	548593	40.000
Perylene-d12 I.S	17.931	1739	Identified	660141	40.000
N-nitrosodimethylamine	2.599	164	Identified	739389	58.622
Pyridine	2.645	169	Identified	2.244E6	58.562
2-Fluorophenol	3.715	277	Identified	252685	52.167
Phenol-d5	4.721	379	Identified	241823	52.433
Phenol	4.737	381	Identified	267556	51.746
Aniline	4.791	387	Identified	777430	44.978
Bis(2-chloroethyl)ether	4.845	392	Identified	444533	52.652
2-Chlorophenol	4.936	402	Identified	254435	50.364
1,3-Dichlorobenzene	5.123	421	Identified	325241	51.185
1,4-Dichlorobenzene	5.213	430	Identified	331024	55.005
Benzyl alcohol	5.358	445	Identified	247828	52.536
1,2-Dichlorobenzene	5.409	450	Identified	312035	52.590
2-Methylphenol	5.498	459	Identified	211587	51.354
Bis(2-chloroisopropyl)ether	5.516	461	Identified	316470	53.315
3+4-Methylphenol	5.703	480	Identified	244992	47.598
N-Nitrosodi-n-propylamine	5.693	479	Identified	769961	51.537
Hexachloroethane	5.849	495	Identified	996484	50.935
Nitrobenzene-d5	5.923	503	Identified	214909	49.377

JC 7-8-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.948	505	Identified	230459	51.604
Isophorone	6.254	536	Identified	462830	55.926
2-Nitrophenol	6.382	549	Identified	216242	49.267
2,4-Dimethylphenol	6.430	554	Identified	247668	48.010
Benzoic acid	6.536	565	Identified	1.347E6	45.036
Bis(2-chloroethoxy)methane	6.558	567	Identified	276881	54.093
2,4-Dichlorophenol	6.717	584	Identified	256824	51.404
1,2,4-Trichlorobenzene	6.832	596	Identified	228915	49.524
Naphthalene	6.948	608	Identified	628769	53.586
4-Chloroaniline	7.036	617	Identified	270722	49.468
Hexachlorobutadiene	7.108	624	Identified	438837	46.665
4-Chloro-3-methylphenol	7.750	689	Identified	311739	52.613
2-Methylnaphthalene	7.953	710	Identified	184183	51.755
1-Methylnaphthalene	8.101	725	Failed	165744	45.703
Hexachlorocyclopentadiene	8.178	733	Identified	302497	42.650
2,4,6-Trichlorophenol	8.382	753	Failed	107481	44.378
2,4,5-Trichlorophenol	8.439	759	Identified	101656	45.216
2-Fluorobiphenyl	8.498	766	Identified	511644	49.286
2-Chloronaphthalene	8.679	784	Identified	514763	48.623
2-Nitroaniline	8.859	802	Identified	363122	48.115
Dimethyl phthalate	9.115	828	Identified	1.000E6	51.353
2,6-Dinitrotoluene	9.219	839	Identified	232464	49.781
Acenaphthylene	9.304	848	Identified	642000	48.692
3-Nitroaniline	9.479	866	Identified	362786	49.254
Acenaphthene	9.564	874	Identified	407652	47.687
2,4-Dinitrophenol	9.629	881	Identified	589921	44.518
4-Nitrophenol	9.760	895	Identified	65359	49.994
Dibenzofuran	9.822	901	Identified	277111	44.564
2,4-Dinitrotoluene	9.823	901	Identified	116935	46.828
Diethyl phthalate	10.173	938	Identified	814058	47.654
4-Chlorophenyl phenyl ether	10.340	955	Identified	242913	42.987
Fluorene	10.340	955	Identified	811778	46.151
4-Nitroaniline	10.406	962	Identified	641020	49.048
4,6-Dinitro-2-methylphenol	10.436	965	Identified	791808	54.856
N-Nitrosodiphenylamine	10.531	975	Identified	431792	53.590
Azobenzene	10.580	980	Identified	623416	55.097
2,4,6-Tribromophenol	10.713	993	Identified	1.065E6	53.227
4-Bromophenyl phenyl ether	11.080	1031	Identified	325855	52.896
Hexachlorobenzene	11.168	1040	Identified	334825	50.186
Pentachlorophenol	11.483	1072	Identified	894649	52.342
Phenanthrene	11.797	1105	Identified	630236	54.293
Anthracene	11.874	1113	Identified	646833	55.014
Carbazole	12.139	1140	Identified	585953	51.139
Di-n-butyl phthalate	12.643	1191	Identified	1.286E6	53.130
Fluoranthene	13.602	1288	Identified	542711	48.264
Benzidine	13.837	1312	Identified	344005	45.126
Pyrene	13.946	1323	Identified	537717	47.330
4-Terphenyl-d14	14.181	1347	Identified	755565	46.095
Butyl benzyl phthalate	14.922	1423	Identified	677502	52.089
3,3'-Dichlorobenzidine	15.747	1508	Identified	1.282E6	48.636

Operator: David Melius Inj. Notes: sv110-0594 50ppm .SMS

7/7/2014 9:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.760	1510	Identified	1.111E6	44.828
Bis(2-ethylhexyl)phthalate	15.764	1510	Identified	684894	42.100
Chrysene	15.814	1515	Identified	1.239E6	43.812
Di-n-octyl phthalate	16.697	1608	Identified	1.728E6	52.869
Benzo(b)fluoranthene	17.316	1674	Identified	1.176E6	49.256
Benzo[k]fluoranthene	17.355	1678	Identified	1.212E6	50.577
Benzo[a]pyrene	17.835	1729	Identified	1.136E6	50.332
Indeno[1,2,3-cd]pyrene	19.988	1957	Identified	701672	48.904
Dibenz[a,h]anthracene	20.025	1960	Identified	606737	50.590
Benzo[g,h,i]perylene	20.618	2023	Identified	669902	47.837

****
Revision Log
****

7/7/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

an Star Workstation - 6400 Samplemaster Rev 4.2

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-827.0	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

TW
4-28-14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4.28.14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

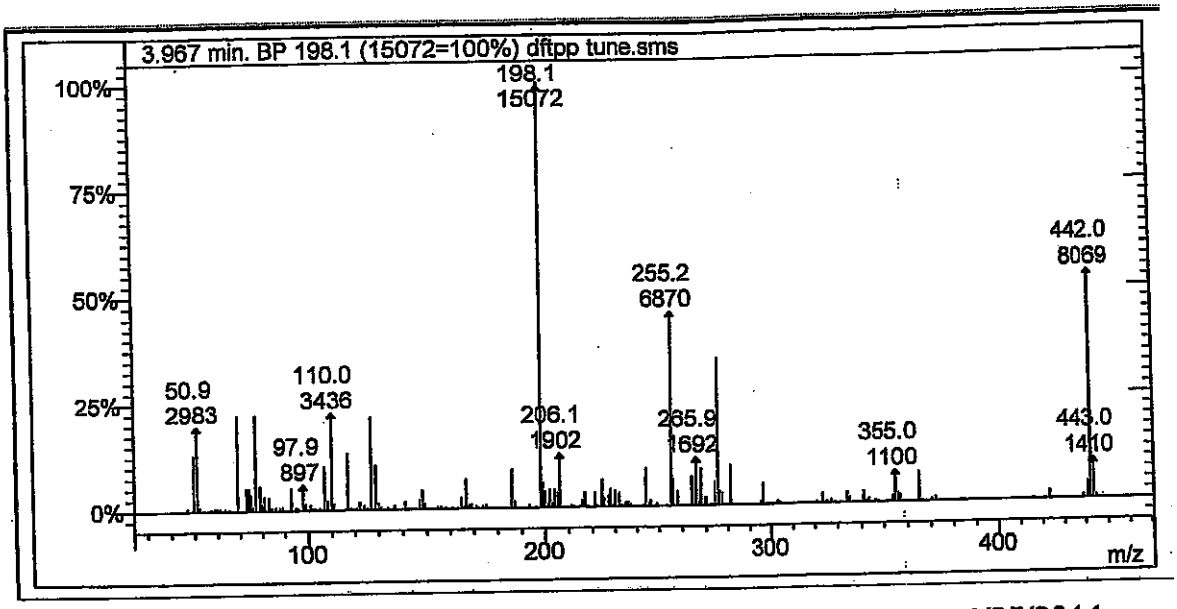
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√ dam 4/28/14

JV 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

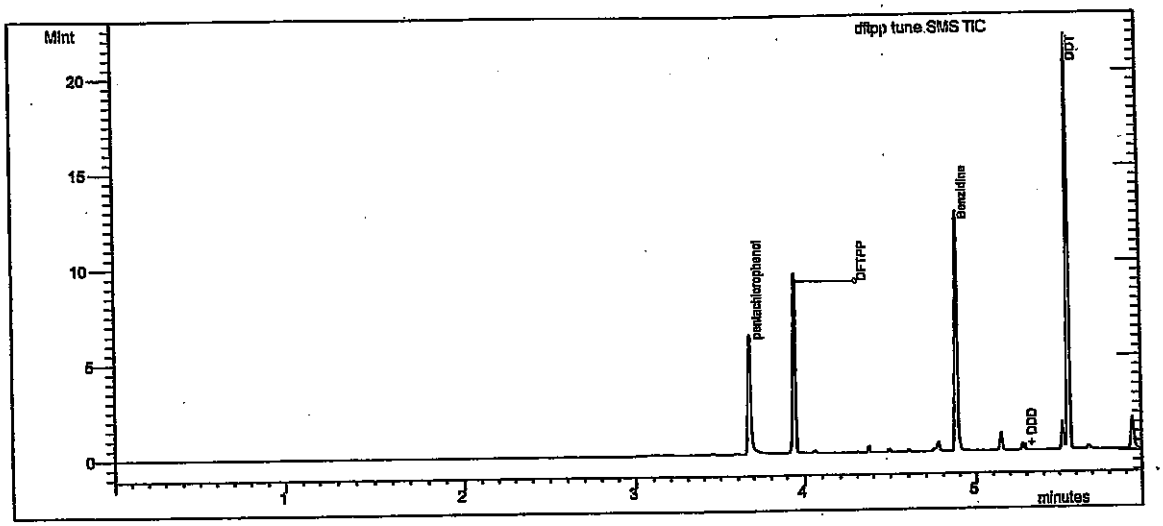
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

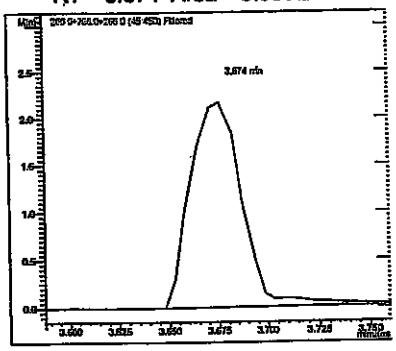
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

TC 4-28-14

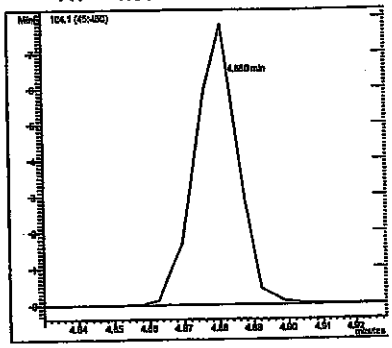
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

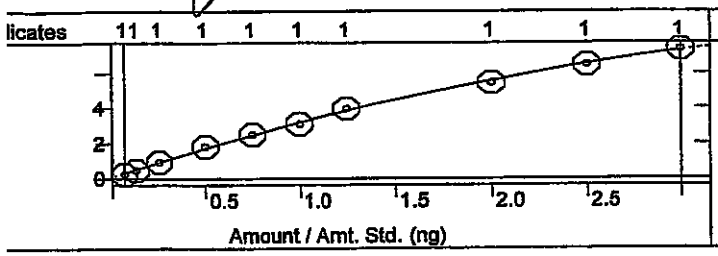
dlm 4/28/14

TV 4.28.14

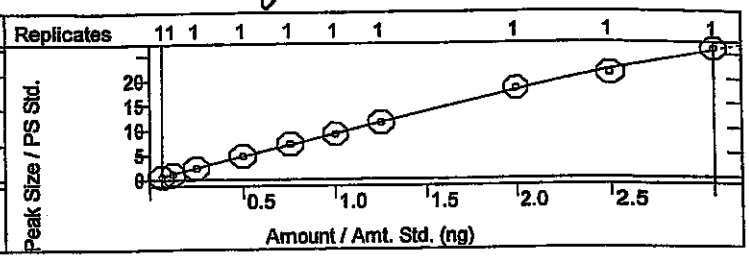
alibration Curves Report

thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

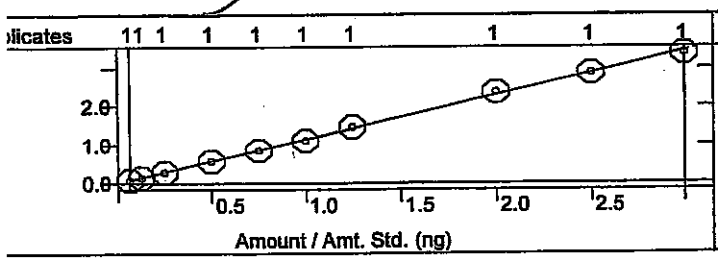
nitrosodimethylamine
irve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



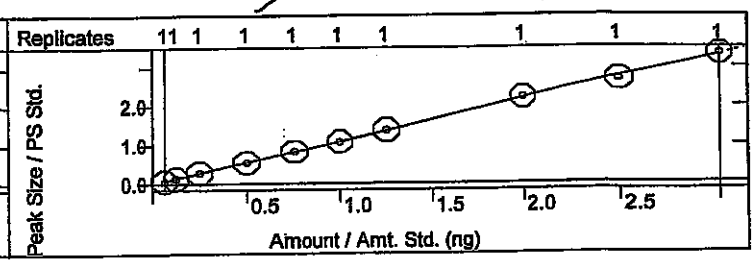
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



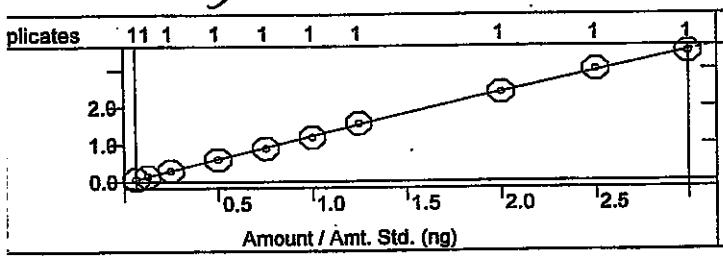
Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



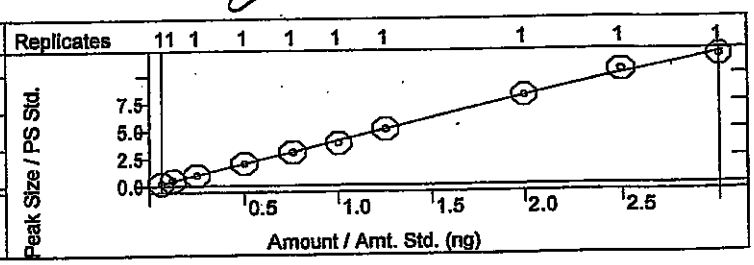
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



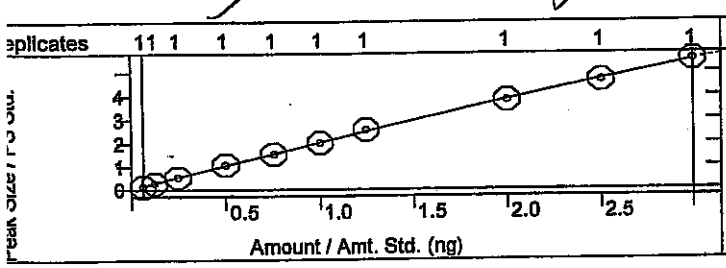
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



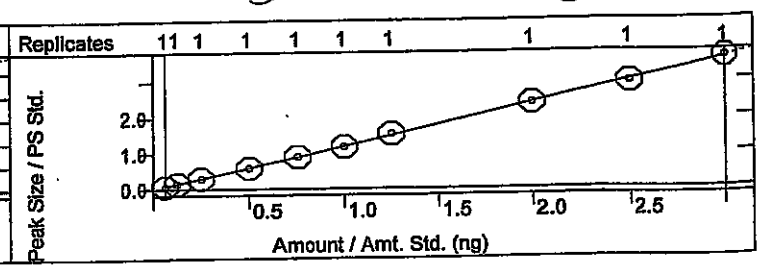
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242



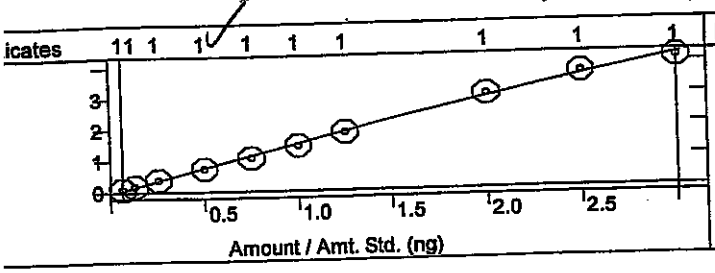
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



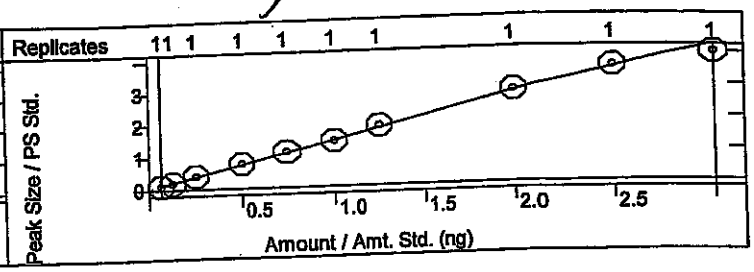
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
alc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
nple List:	N/A	Detector:	2000 Mass Spec
quence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

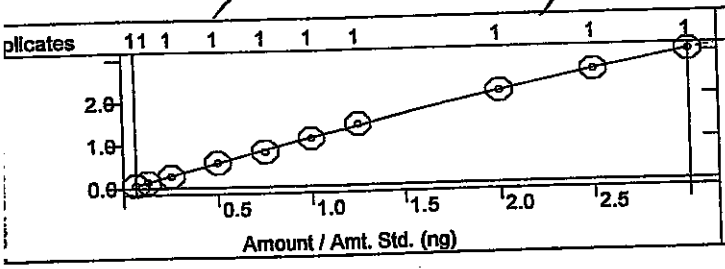
-Dichlorobenzene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
: -0.0693x2 +1.6278x -0.0442



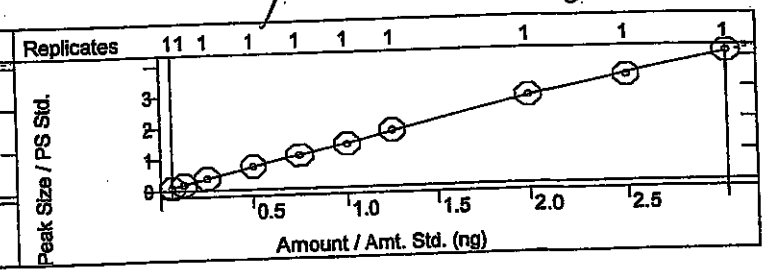
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



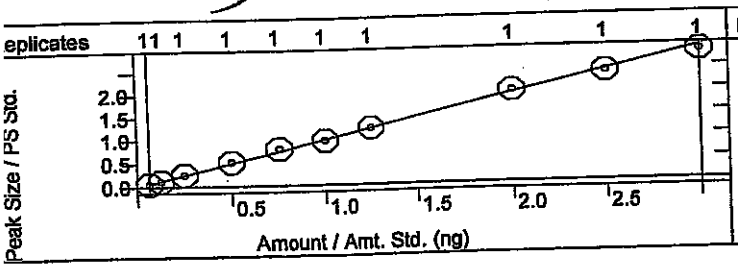
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



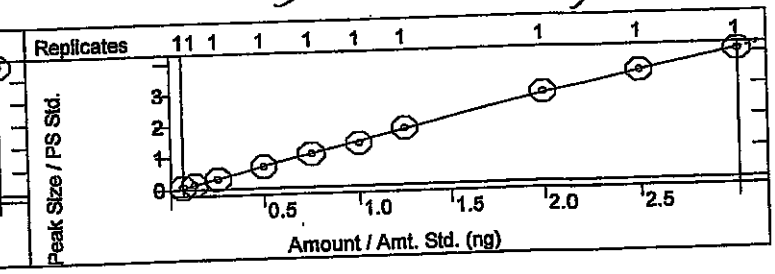
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



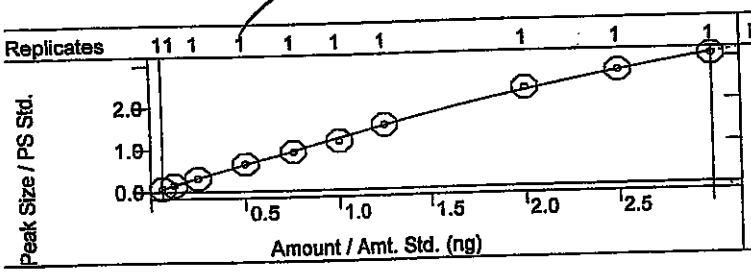
-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



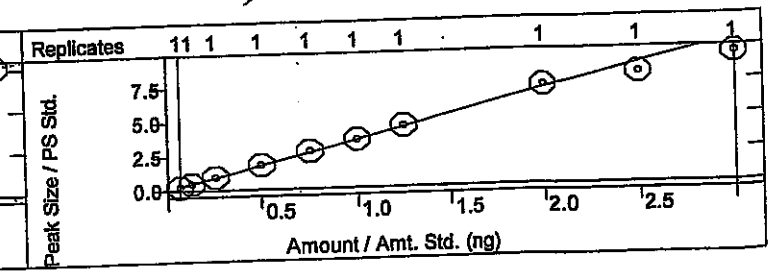
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



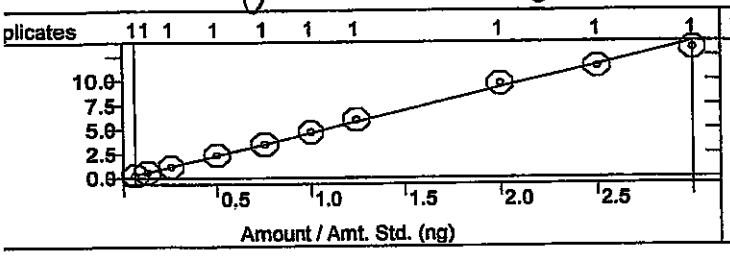
alibration Curves Report

VJdm 4/28/14

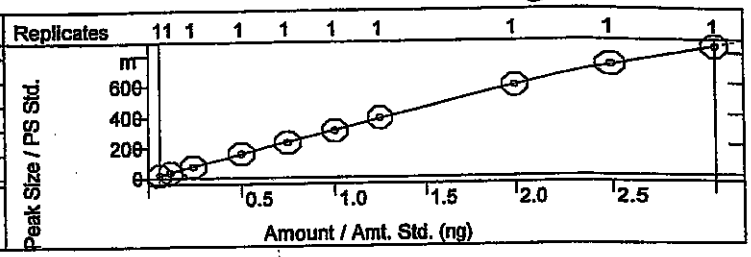
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

VJ 4-28-14

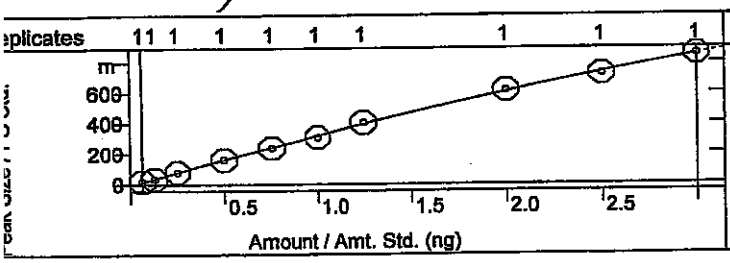
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



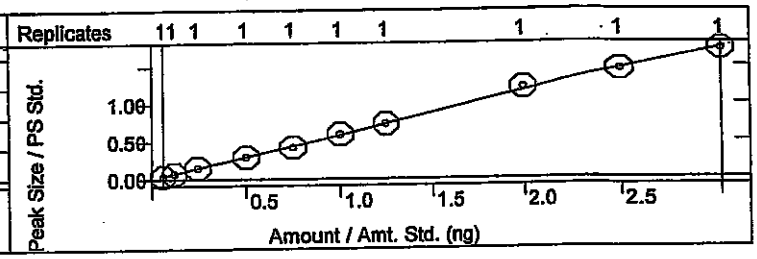
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



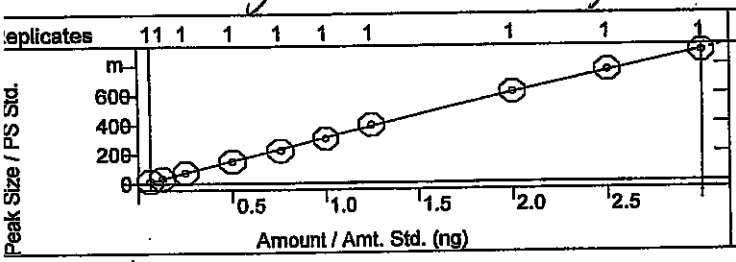
itrobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



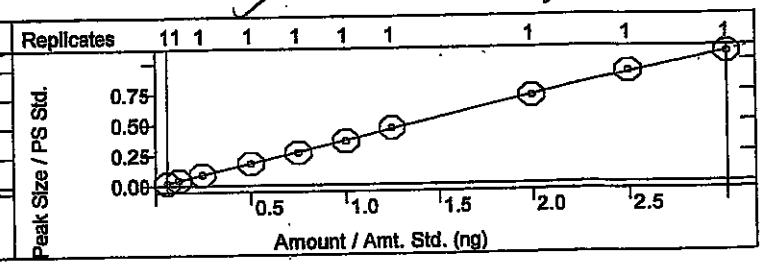
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



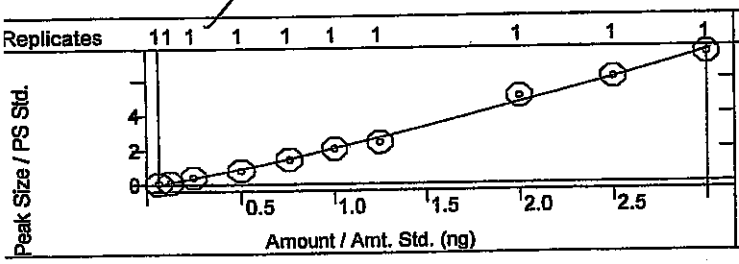
2-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
y = -0.0089x2 +0.3282x -0.0083



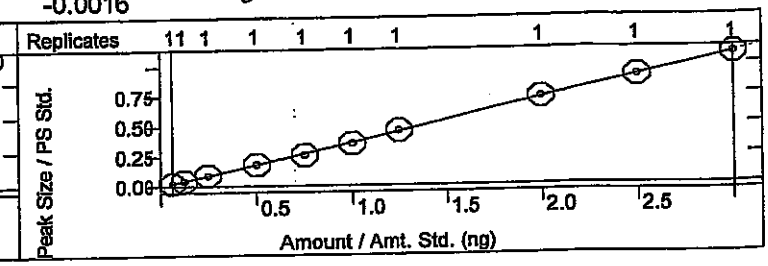
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



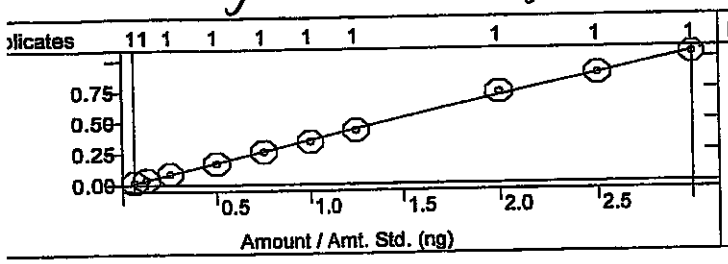
alibration Curves Report

v dlm 4/28/14

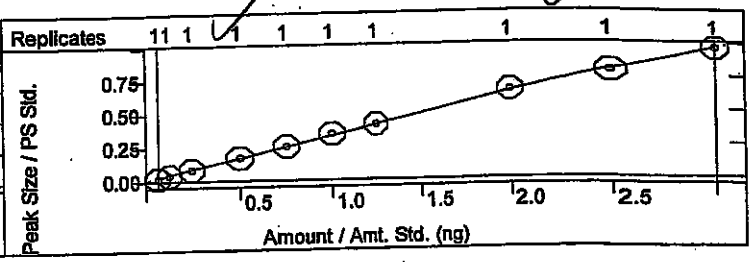
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
3 Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

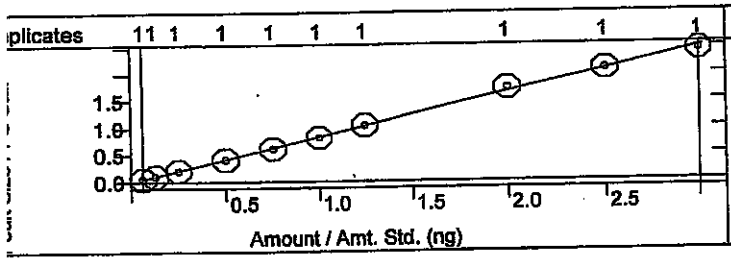
4-Dichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



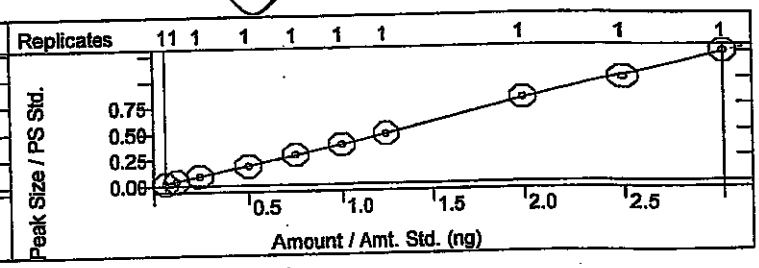
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



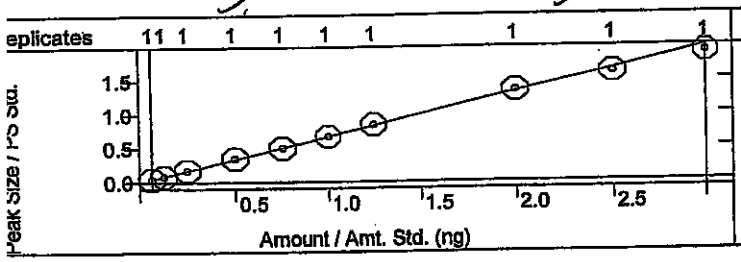
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



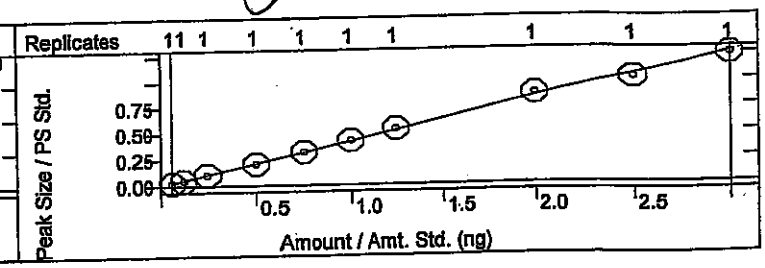
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



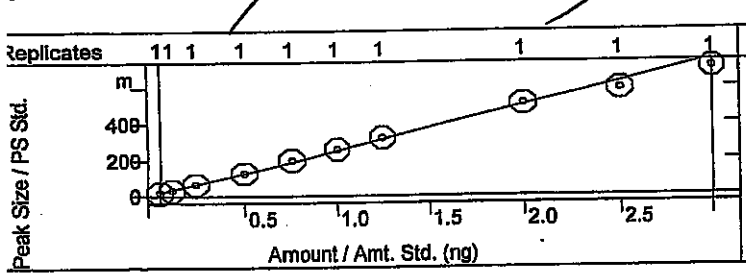
lexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



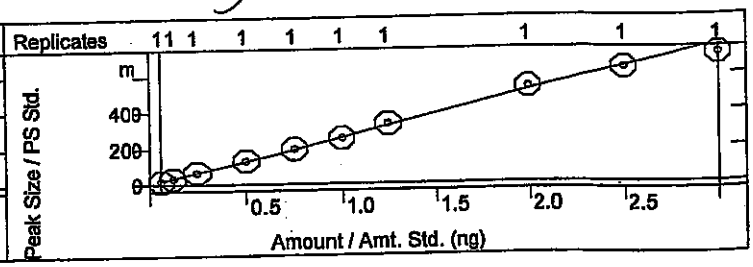
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



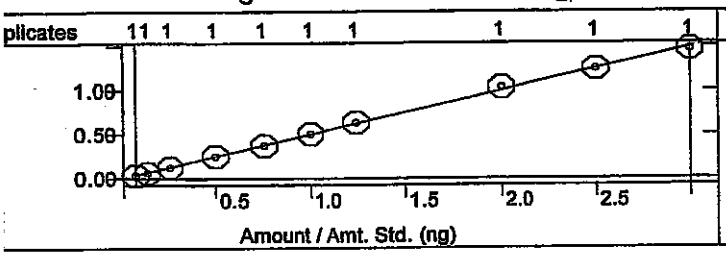
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



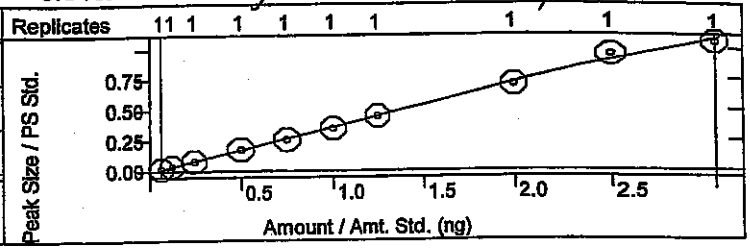
alibration Curves Report

ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

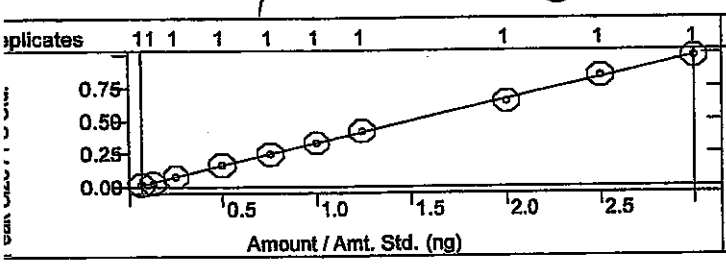
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



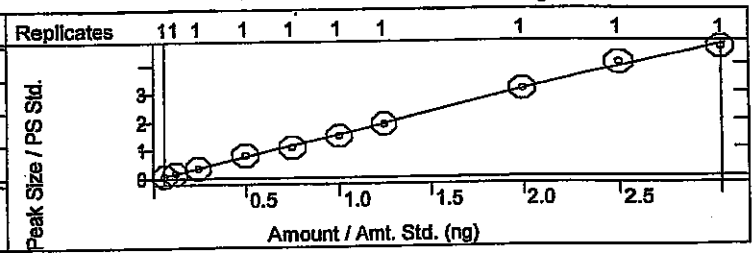
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



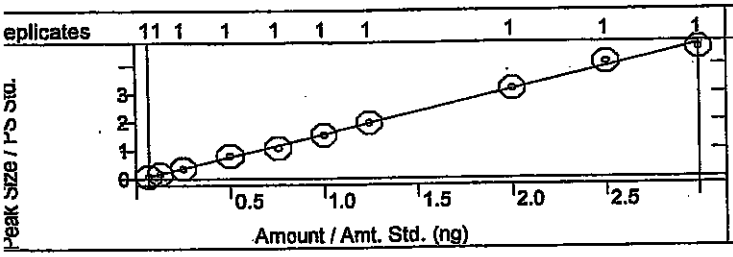
,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



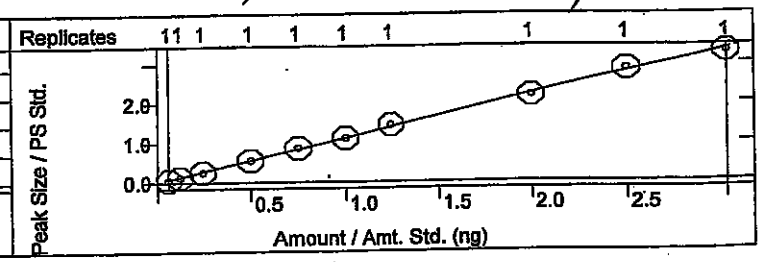
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



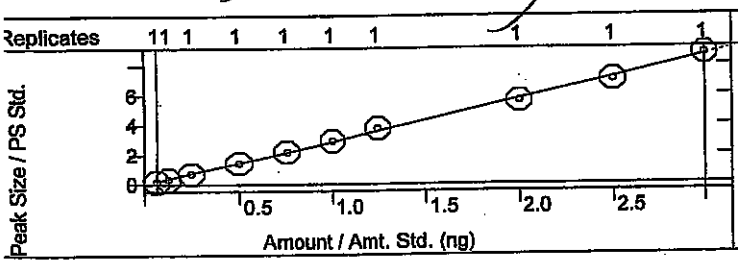
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



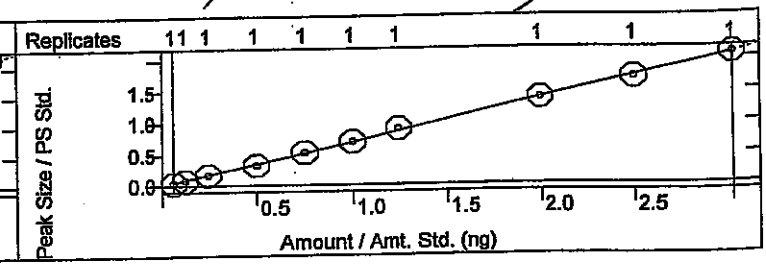
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



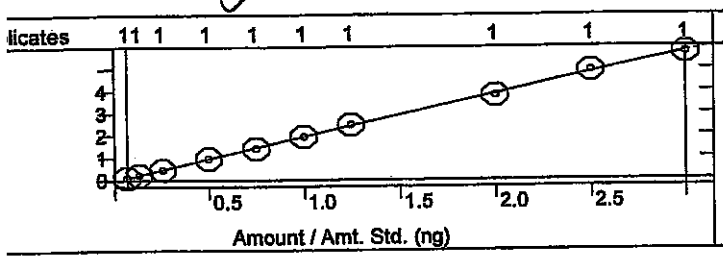
alibration Curves Report

✓ dm 4/28/14

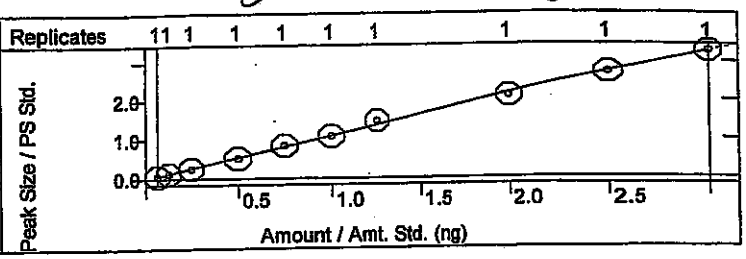
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
; Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

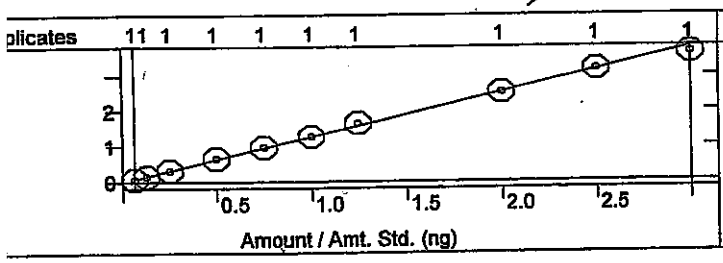
enaphthylene
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



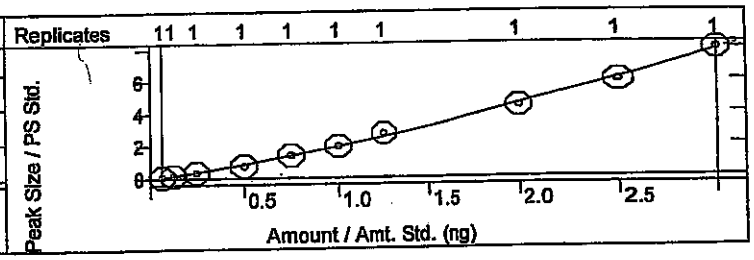
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



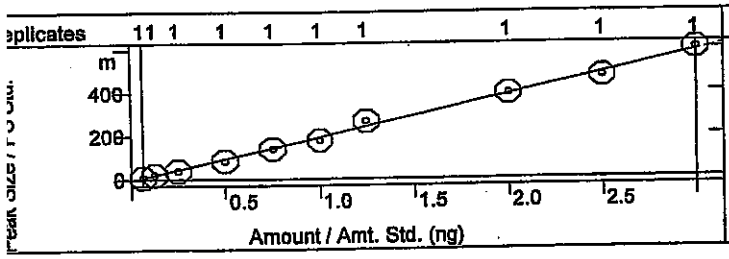
cenaphthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



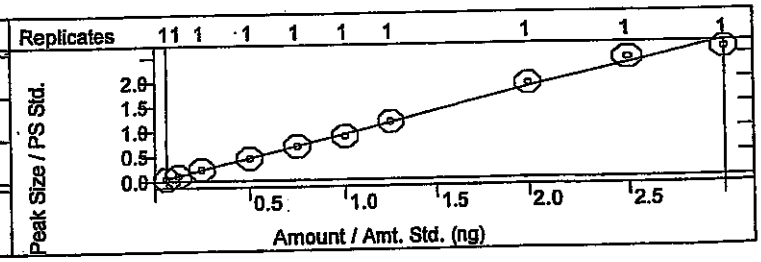
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



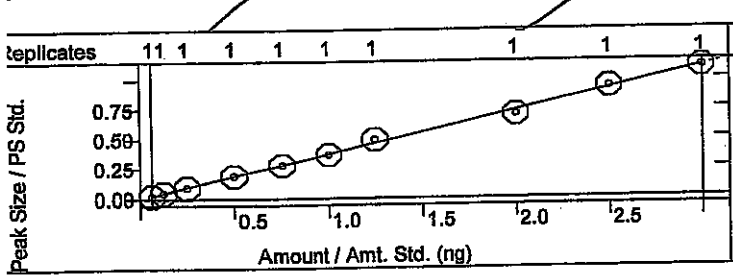
-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
= +0.1978x -0.0058



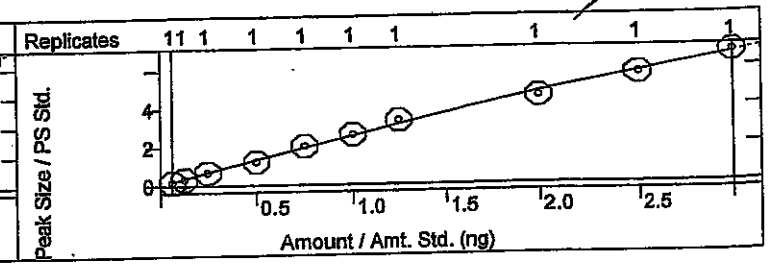
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



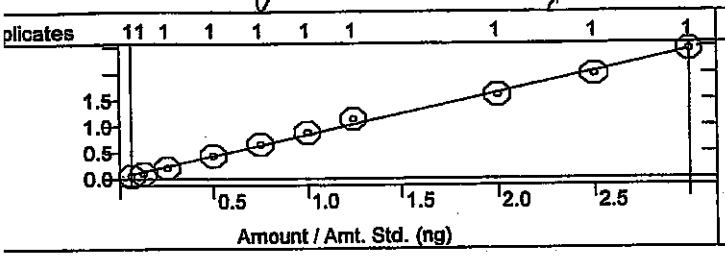
alibration Curves Report

J dlm 4/28/14

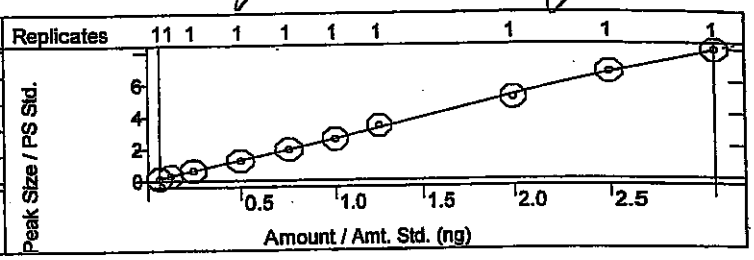
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4.28.14

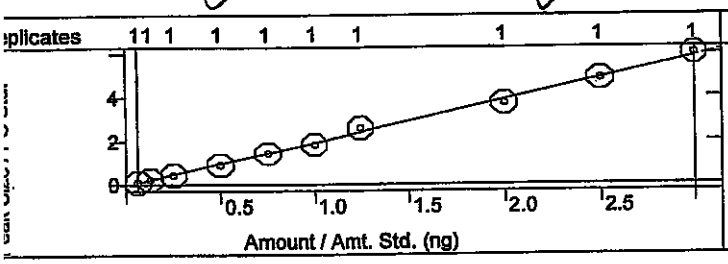
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



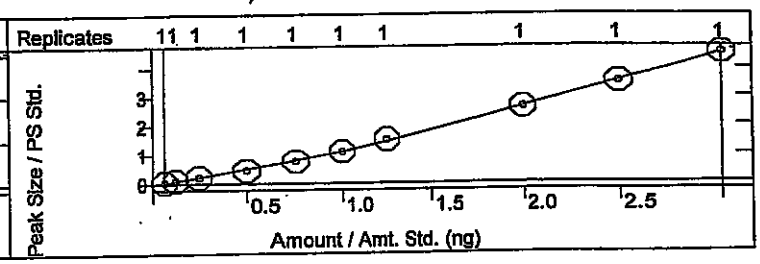
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



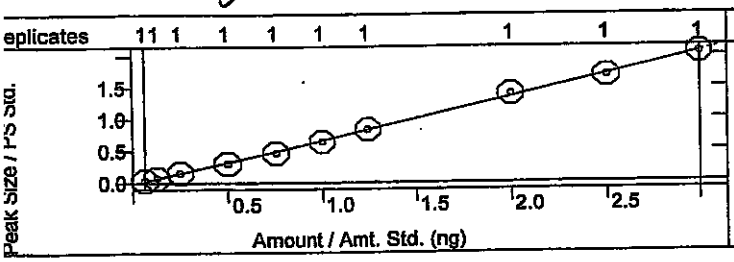
-Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



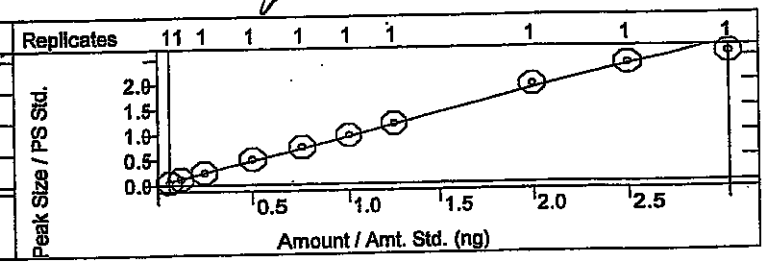
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



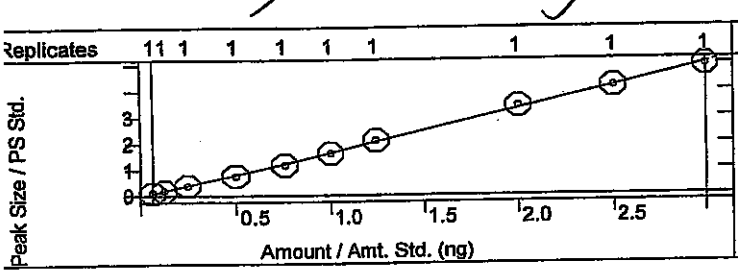
-Nitrosodiphenylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



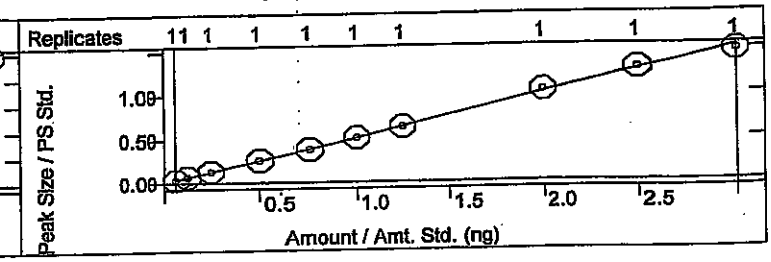
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



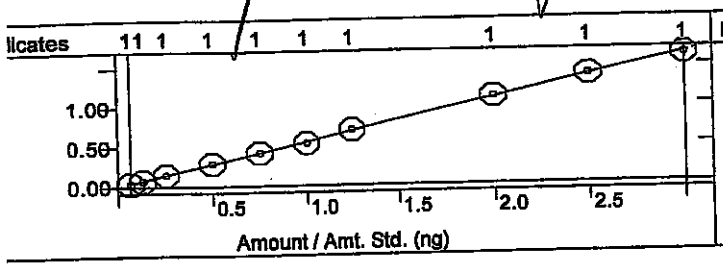
ılibration Curves Report

VJdm 4/28/14

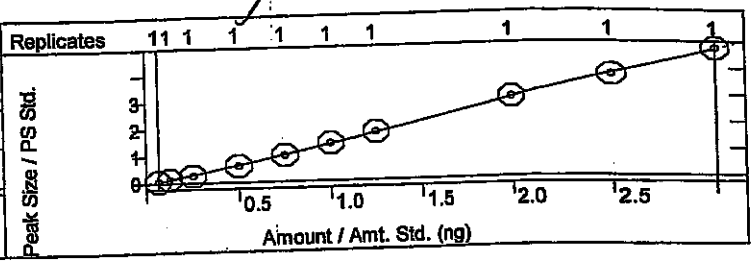
hod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
alc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

JV 4-28-14

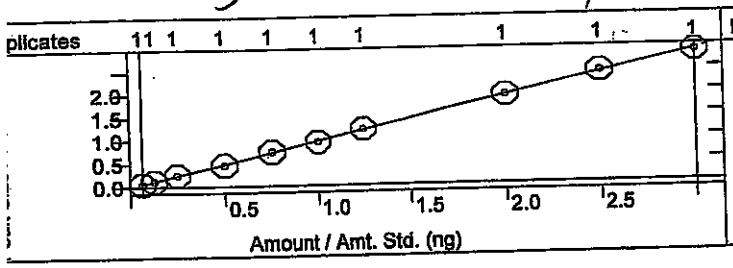
xachlorobenzene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
: +0.5470x +0.0070



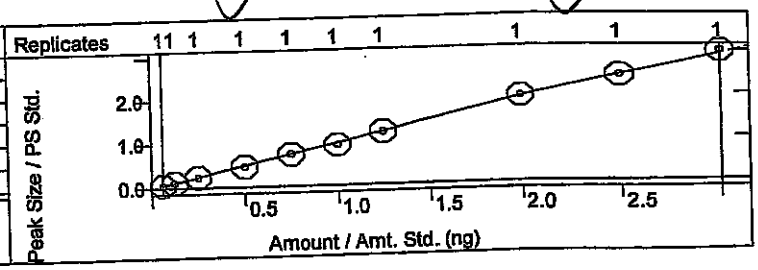
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



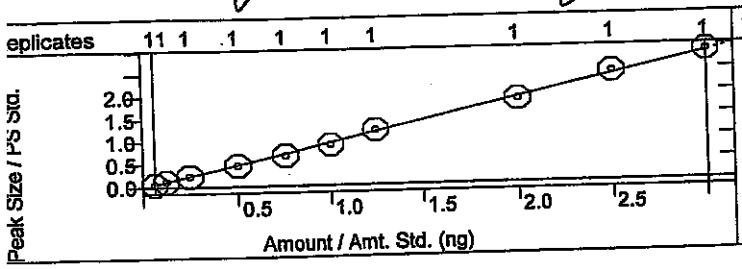
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



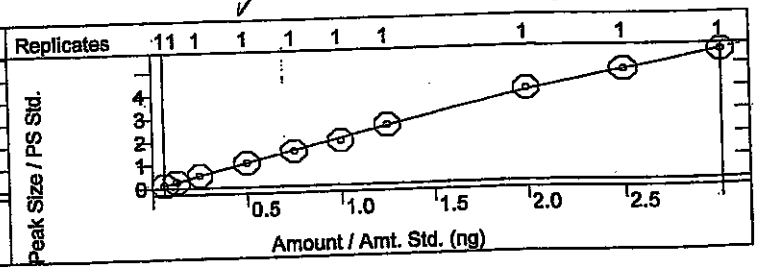
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



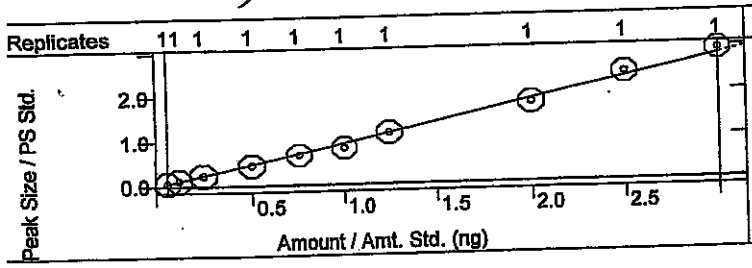
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



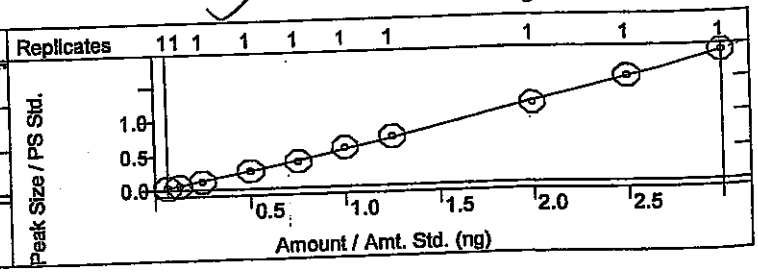
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



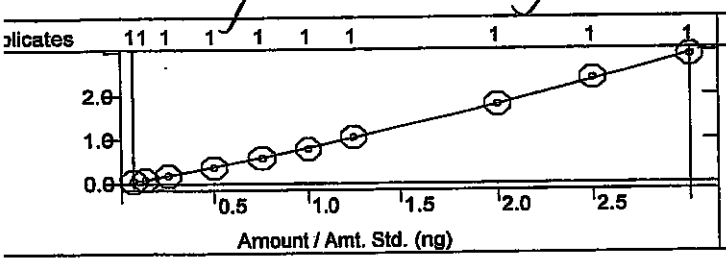
alibration Curves Report

J Allen 4/28/14

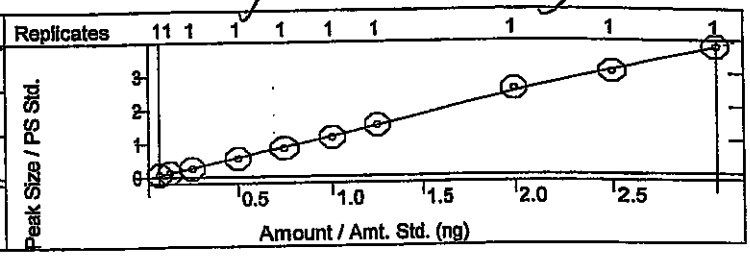
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JK 4-28-14

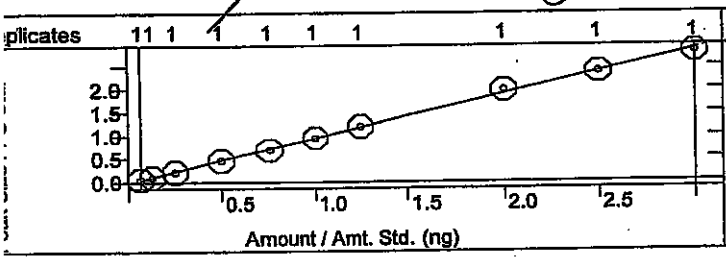
rene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



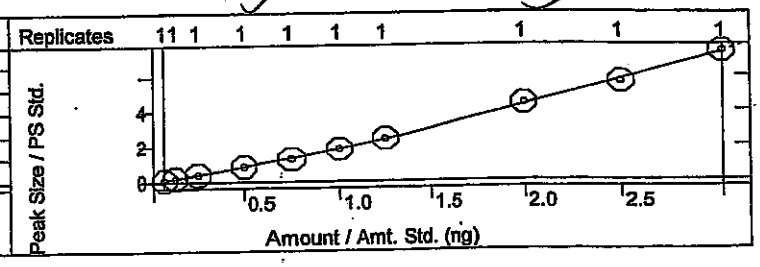
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



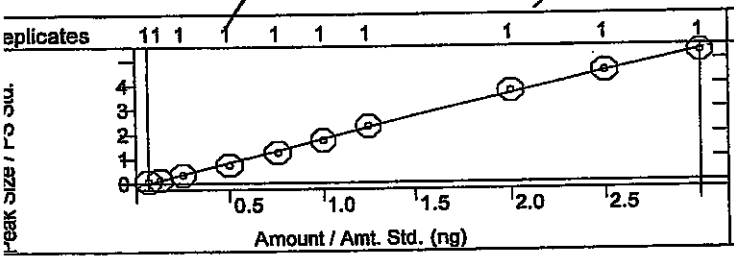
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



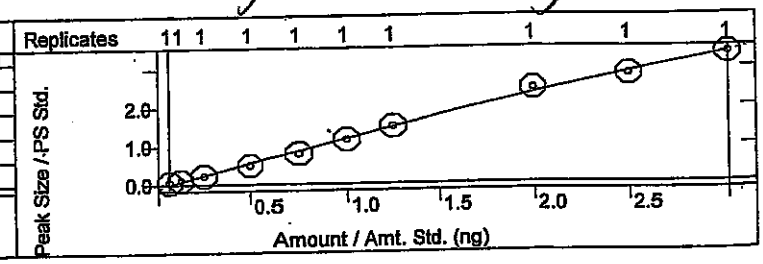
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



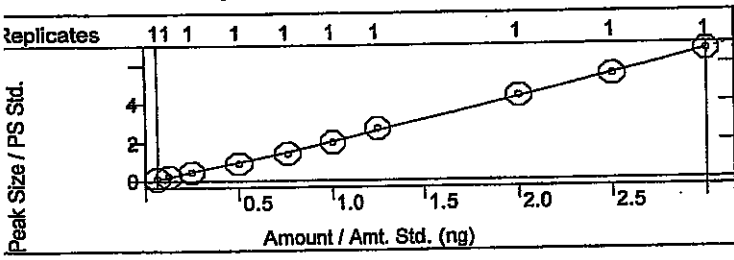
enz[a]anthracene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9869x -0.1374



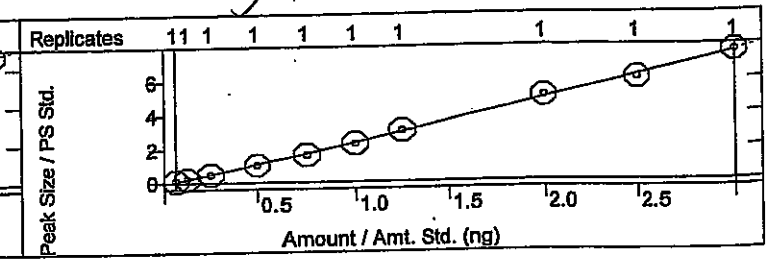
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



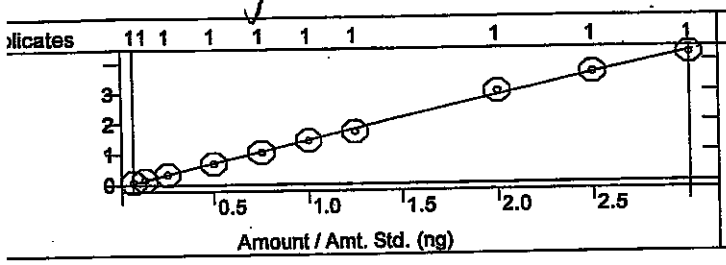
alibration Curves Report

I dwh 4/28/14

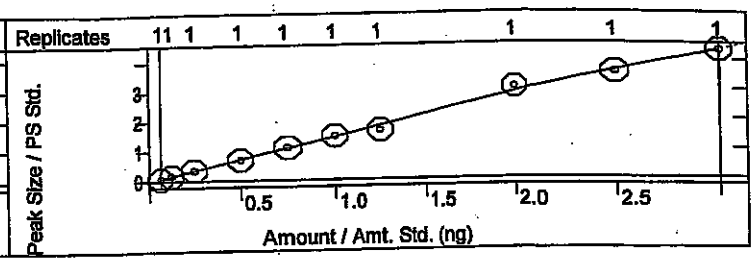
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
3 Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SV 4-24-14

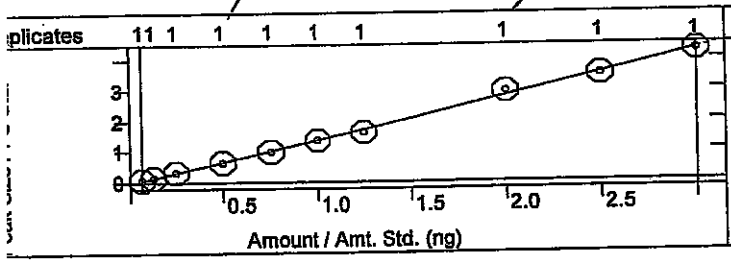
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



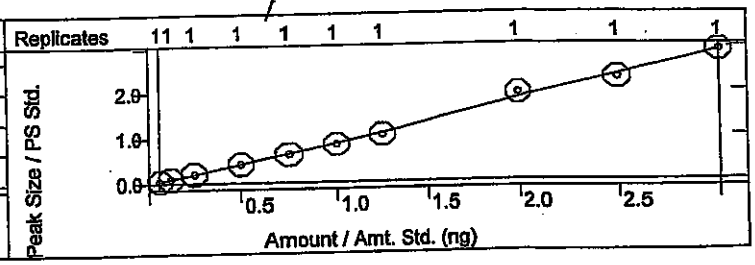
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



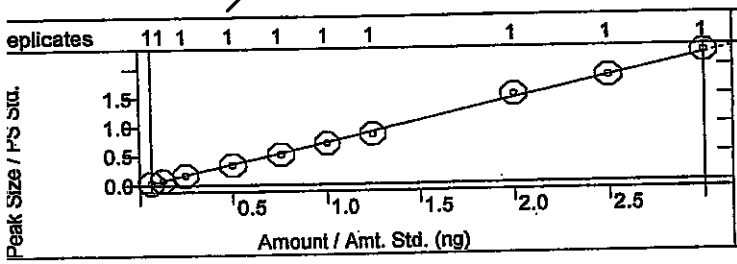
enzo[a]pyrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



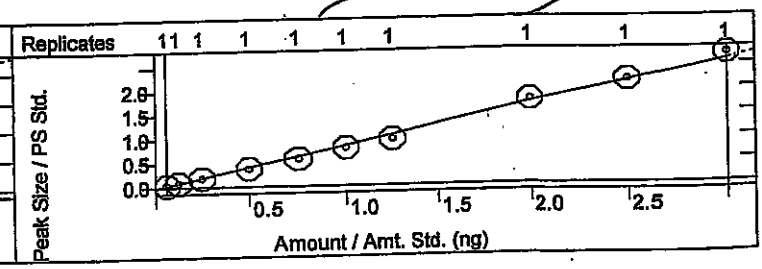
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



)ibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
/ = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dam 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/1

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dan, 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9993	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dam 4/28

JV 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dah 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.466	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dhm 4/29/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TE 4-28-14

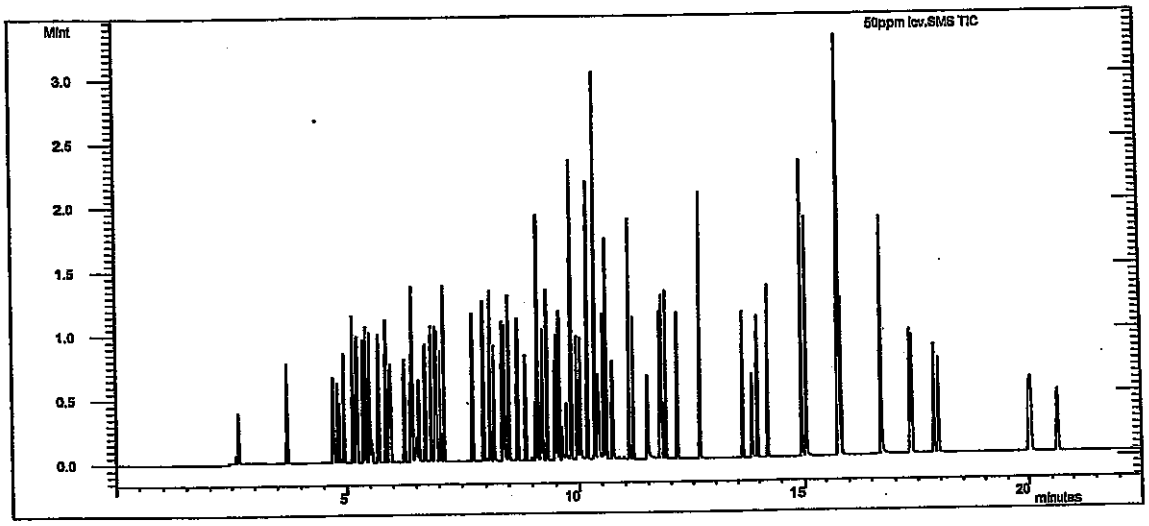
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

8/7/14

R 4

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407066**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-001 **Collection Date:** 7/1/2014 9:43:00 AM
Client Sample ID: FFOR-CF-0009 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	2.2 ✓	0.26		mg/Kg-dry	1	7/3/2014 10:34:06 AM	14031

Lab ID: 1407066-002 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0010 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	6.0 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:35:31 AM	14031

Lab ID: 1407066-003 **Collection Date:** 7/1/2014 11:14:00 AM
Client Sample ID: FFOR-CF-0011 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	4.6 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:36:51 AM	14031

Lab ID: 1407066-004 **Collection Date:** 7/1/2014 11:33:00 AM
Client Sample ID: FFOR-CF-0012 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	1.2 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:38:16 AM	14031

Lab ID: 1407066-005 **Collection Date:** 7/1/2014 11:41:00 AM
Client Sample ID: FFOR-CF-0013 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	14 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:39:39 AM	14031

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407066

Lab ID: 1407066-006 **Collection Date:** 7/1/2014 11:51:00 AM
Client Sample ID: FFOR-CF-0014 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	42 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:46:02 AM	14031

Lab ID: 1407066-007 **Collection Date:** 7/1/2014 2:10:00 PM
Client Sample ID: FFOR-CF-0015 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 6010B: SOIL METALS						Analyst: **ELS**	
Lead	3.4 ✓	0.27		mg/Kg-dry	1	7/3/2014 10:47:26 AM	14031

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2
RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 12:14:14 P**
Prep End Date:

Analyst/Date: MD 7/3/14
QA'd/Date: 07/9/14

Prep Batch ID **14064** Prep Code: **3050**
Initial Temp: **°C** Final Temp **°C**

Technician: **Mikaela Dicome**

Prep Factor Units:
mL / g

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14064		Soil			1.9974	0	0	50	50.000	7/3/2014	
LCS-14064		Soil			1.0055	0	0	50	50.000	7/3/2014	
1406A04-001A	Sample #1/Sat 17/3Ft	Soil			1.0226	0	0	50	50.000	7/3/2014	
1406A04-002A	Sample #2/Master 17/	Soil			1.0129	0	0	50	50.000	7/3/2014	
1406A04-003A	Sample #3/Master 17/	Soil			1.9932	0	0	50	50.000	7/3/2014	
1407136-001A	200398342/DEWCAK	Soil			1.9826	0	0	50	50.000	7/3/2014	
1407139-001A	FFOR-CF-0016	MeOH (Soil)			1.0214	0	0	50	50.000	7/3/2014	
1407139-001AMS		MeOH (Soil)			1.0330	0	0	50	50.000	7/3/2014	
1407139-001AMSD		MeOH (Soil)			1.0336	0	0	50	50.000	7/3/2014	
1407139-002A	FFOR-CF-0017	MeOH (Soil)			1.0307	0	0	50	50.000	7/3/2014	
1407139-003A	FFOR-CF-0018	MeOH (Soil)			1.9999	0	0	50	50.000	7/3/2014	
1407139-004A	FFOR-CF-0019	MeOH (Soil)			1.0284	0	0	50	50.000	7/3/2014	
1407139-005A	FFOR-CF-0020	MeOH (Soil)			1.0204	0	0	50	50.000	7/3/2014	
1407139-006A	FFOR-CF-0021	MeOH (Soil)			1.0174	0	0	50	50.000	7/3/2014	
1407139-007A	FFOR-CF-0022	MeOH (Soil)			1.0263	0	0	50	50.000	7/3/2014	
1407139-008A	FFOR-CF-0023	MeOH (Soil)			1.0074	0	0	50	50.000	7/3/2014	
1407139-009A	FFOR-CF-0024	MeOH (Soil)			1.9910	0	0	50	50.000	7/3/2014	
1407139-010A	FFOR-CF-0025	MeOH (Soil)			1.0405	0	0	50	50.000	7/3/2014	
1407139-011A	FFOR-CF-0026	MeOH (Soil)			1.0367	0	0	50	50.000	7/3/2014	
1407161-001A	Cooling Tower Bottom	Soil			1.9855	0	0	50	50.000	7/3/2014	
1407188-001A	FFOR-CF-0027	MeOH (Soil)			1.0162	0	0	50	50.000	7/3/2014	

1407094-0008 .9974

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4379	Hydrogen Peroxide, 30%	13707	Container-01 of 01	0	mL
Chemical	4619	Boiling Stones, Ultra-Pure PTFE	14783	Container-01 of 01	0	mL
Chemical	4620	Hydrochloric Acid, Trace Metal Grade	14786	Container-03 of 06	0	mL

1407019-002A .9752

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 12:14:14 P**
Prep End Date:

Prep Batch ID **14064** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Chemical	4651	EnvExp Digestion Tubes 50mL	14932	Container-04 of 05	0	mL
Chemical	4665	Nitric Acid Trace Metal Grade	14969	Container-03 of 06	0	mL
Chemical	4679	FilterMate 2um Teflon-faced PP Filter	15016	Container-06 of 06	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST6010-14139	VHG Custom Std 801 EXP 3/31/15	LCS MS MSD	25250	Container-01 of 02	500	µL
ST6010-14161	VHG Custom Std 1101 EXP 4/30/15	LCS MS MSD	25338	Container-02 of 02	500	µL

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 140604	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8	3005	3050	3010	WIPES
Tubes /	Tubes /	4651 Tubes 45	Tubes /	Tubes /
HNO_3 /	HNO_3 /	~~4645~~ 4676 HNO_3 3/4	HNO_3 /	HNO_3 /
1:1 HCl /	HCl /	4620 HCl 3/4	HCl /	HCl /
Filters /	Filters /	4679 Filters 4/4	Filters /	Filters /
		4379 H_2O_2 1/1	TCLP Fluid /	EE Wipes /
		4619 Teflon Chips 1/1	TCLP Fluid /	

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14161 Exp: 4/30/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered

Digestion Block: Tawah Position: D4

Therm ID: DBT-22 Calibration Exp: 8/9/15

Temp:	CF:	Corr. Temp:
93.6 °C	−0 °C	= 93.6 °C

Analyst: MD Date/Time: 7/3/14 15:07

☐ Uncovered ☐ Covered

Digestion Block: _____ Position: _____

Therm ID: _____ Calibration Exp: _____

Temp:	CF:	Corr. Temp:
°C	°C	= °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P13 Wt. DI (g): 0.5002 Rm Temp (°C): 21.8 Analyst: MD
Acceptable range: 0.4900g - 0.5100g

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: MD 7/3/14 QA'd/Date: 7/9/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 19704

ICP-OES Analysis Summary

Instrument: IRIS

Data Imported By: JWF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 070714 B14075 **Prep Batch ID:** B14075

Calibration

	Standard ID		Standard ID		Standard ID
ST1	ST6010- 14254	ST5	ST6010- 14263	ICV	ST6010- 14237
ST2	ST6010- 14260	ST6	ST6010- 14275	ICV CAT	ST6010- 14285
ST3 (CCV)	ST6010- 14295	ST7 (CCV CAT)	ST6010- 14286	ICS ELEM	ST6010- 14294
ST4	ST6010- 14262	ST8	ST6010- 14276	ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14301

2% Nitric Acid

Reagent ID: 1354

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 100ml Wt DI (g): 0.1003 JWF 7/7/14 Rm Temp (°C): 21.5 Analyst: JWF

Pipette No: P30 Spike Volume: 50ml Wt DI (g): 0.5029 Rm Temp (°C): 21.5 Analyst: JWF

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0084 Rm Temp (°C): 21.5 Analyst: JWF

Pipette No: P03 Spike Volume: 800ml Wt DI (g): 0.8042 Rm Temp (°C): 21.5 Analyst: JWF

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Se	1407724-001A	0.44239	50	50	5	2.21	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result ____ mg/L

Analyst/Date: JWF 7/7/14 Qa'd by/Date: 7/8/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ____ and ____.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	Applied
8	3	ST7	Applied
9	412	ST8	Applied
10	401	ICV	QC Passed
11	402	ICV CAT	QC Passed
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Failed
15	404	ICS	
16	101	MB-14075	Analyzed
17	102	LCS-14075	Analyzed
18	103	1406935-001B	Samp Limit Failed
19	104	1406935-001B 5X	Analyzed
20	201	1406935-001B 10X	Analyzed
21	202	1406935-001B 20X	Analyzed
22	203	MB-14075RR	Analyzed
23	204	LCS-14075RR	Analyzed
24	105	1407222-001A	Samp Limit Failed
25	106	1407224-001A	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	QC Passed
29	205	1407224-001A 5X	Analyzed
30	107	1407224-002A	Analyzed
31	108	1407224-002AMS	Analyzed
32	109	1407224-002AMSD	Analyzed
33	206	1407224-002APS	Analyzed
34	12	BLANK	Analyzed
35	110	MB-14076	Analyzed
36	111	LCS-14076	Analyzed
37	112	MB-14064	Analyzed
38	113	LCS-14064	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	114	1407076-001A	Samp Limit Failed
43	115	1407076-002A	Samp Limit Failed
44	116	1407076-003A	Samp Limit Failed
45	117	1407076-004A	Samp Limit Failed
46	118	1407076-005A	IS Check Failed
47	119	1407076-007A	Analyzed
48	120	1407076-008A	Analyzed
49	121	1407076-010A	Analyzed
50	122	1407076-011A	Analyzed
51	123	1407076-012A	Samp Limit Failed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	Analyzed
55	124	1407076-013A	IS Check Failed

* Notations by inputting analyst - JF 7/7/14

changed analyte list

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	125		1407076-014A	Samp Limit Failed
57	126		1407076-015A	IS Check Failed
58	127		1407076-016A	Samp Limit Failed
59	128		1407076-016AMS	Analyzed
60	129		1407076-016AMSD	Analyzed
61	130		1406B99-002A	Analyzed
62	131		1406B99-002AMS	Analyzed
63	132		1406B99-002AMSD	Analyzed
64	133		1406B99-002APS	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	Analyzed
68	134		1407076-005ARR	IS Check Failed
69	135		1407076-005A 2X	IS Check Failed
70	136		1407076-013ARR	IS Check Failed
71	137		1407076-013A 2X	Analyzed
72	138		1407076-015ARR	IS Check Failed
73	139		1407076-015A 2X	Samp Limit Failed
74	140		1407019-0002A	Analyzed
75	141		1407139-001A	Samp Limit Failed
76	142		1407139-001AMS	Analyzed
77	143		1407139-001AMSD	Analyzed
78	2	QC	CCV	QC Passed
79	1	QC	CCB	QC Passed
80	3	QC	CCV CAT	Analyzed
81	144		1407139-002A	Samp Limit Failed
82	145		1407139-003A	Samp Limit Failed
83	146		1407139-004A	Samp Limit Failed
84	147		1407139-005A	Samp Limit Failed
85	148		1407139-006A	Samp Limit Failed
86	149		1407139-007A	Samp Limit Failed
87	150		1407139-008A	Samp Limit Failed
88	151		1407139-009A	Samp Limit Failed
89	152		1407139-010A	Samp Limit Failed
90	153		1407139-011A	Samp Limit Failed
91	2	QC	CCV	QC Failed
92	2	QC	CCV	QC Passed
93	1	QC	CCB	QC Passed
94	3	QC	CCV CAT	Analyzed
95	154		1407188-001A	Samp Limit Failed
96	155		1406B43-001A	IS Check Failed
97	156		1406C94-001B	Samp Limit Failed
98	157		1406C94-001B 2X	Analyzed
99	158		1406C94-008B	Samp Limit Failed
100	159		1407136-001A	Analyzed
101	160		1406A04-001A	Samp Limit Failed
102	301		1406A04-002A	Samp Limit Failed
103	302		1406A04-003A	Samp Limit Failed
104	303		1407161-001A	Samp Limit Failed
105	2	QC	CCV	QC Passed
106	1	QC	CCB	QC Passed
107	3	QC	CCV CAT	Analyzed
108	304		1407076-005A 5X	Samp Limit Failed
109	305		1406CB43-001A 2X	Analyzed
110	306		1406C94-001B 5X	Analyzed

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
111	307		1406C94-008B 5X	Analyzed
112	308		1406A04-001A 5X	Analyzed
113	309		1406A04-002A 5X	Samp Limit Failed
114	310		1406A04-003A 5X	Samp Limit Failed
115	311		1407161-001A 5X	Analyzed
116	312		1407161-001A 10X	Analyzed
117	2	QC	CCV	QC Failed
118	1	QC	CCB	QC Passed
119	3	QC	CCV CAT	Analyzed
120	7	QC	DI RINSE	QC Passed

As ↑, Ba ↑, Cd ↑, Cr ↑, Ni ↑, Pb ↑, Se ↑, Zn ↑

Sample Information Detail Report
Document Name: 070714 B14075

File Description
Hall Design

Parameters Common to All Samples

Batch ID	070714 B14075
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

* Priority added samples. JMC 7/7/14

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14075	MBLK
2	102	LCS-14075	LCS
3	103	1406935-001B	SAMP
4	104	1406935-001B 5X	SAMP
5	105	1407222-001A	SAMP
6	106	1407224-001A	SAMP
7	107	1407224-002A	SAMP
8	108	1407224-002AMS	MS
9	109	1407224-002AMSD	MSD
10	12	BLANK	
11	110	MB-14076	MBLK
12	111	LCS-14076	LCS
13	112	MB-14064	MBLK
14	113	LCS-14064	LCS
15	114	1407076-001A	SAMP
16	115	1407076-002A	SAMP
17	116	1407076-003A	SAMP
18	117	1407076-004A	SAMP
19	118	1407076-005A	SAMP
20	119	1407076-007A	SAMP
21	120	1407076-008A	SAMP
22	121	1407076-010A	SAMP
23	122	1407076-011A	SAMP
24	123	1407076-012A	SAMP
25	124	1407076-013A	SAMP
26	125	1407076-014A	SAMP
27	126	1407076-015A	SAMP
28	127	1407076-016A	SAMP
29	128	1407076-016AMS	MS
30	129	1407076-016AMSD	MSD
31	130	1406B99-002A	SAMP
32	131	1406B99-002AMS	MS
33	132	1406B99-002AMSD	MSD
34	133	1406B99-002APS	PS
35	134	1407076-005ARR	SAMP
36	135	1407076-005A 2X	SAMP
37	136	1407076-013ARR	SAMP
38	137	1407076-013A 2X	SAMP
39	138	1407076-015ARR	SAMP
40	139	1407076-015A 2X	SAMP
41	140	1407019-0002A	SAMP
42	141	1407139-001A	SAMP
43	142	1407139-001AMS	MS
44	143	1407139-001AMSD	MSD
45	144	1407139-002A	SAMP
46	145	1407139-003A	SAMP
47	146	1407139-004A	SAMP
48	147	1407139-005A	SAMP
49	148	1407139-006A	SAMP
50	149	1407139-007A	SAMP
51	150	1407139-008A	SAMP
52	151	1407139-009A	SAMP
53	152	1407139-010A	SAMP
54	153	1407139-011A	SAMP

55	154	1407188-001A	SAMP
56	155	1406B43-001A	SAMP
57	156	1406C94-001B	SAMP
58	157	1406C94-001B 2X	SAMP
59	158	1406C94-008B	SAMP
60	159	1407136-001A	SAMP
61	160	1406A04-001A	SAMP
62	301	1406A04-002A	SAMP
63	302	1406A04-003A	SAMP
64	303	1407161-001A	SAMP
65	304	1407076-005A 5X	SAMP
66	305	1406CB43-001A 2X	SAMP
67	306	1406C94-001B 5X	SAMP
68	307	1406C94-008B 5X	SAMP
69	308	1406A04-001A 5X	SAMP
70	309	1406A04-002A 5X	SAMP
71	310	1406A04-003A 5X	SAMP
72	311	1407161-001A 5X	SAMP
73	312	1407161-001A 10X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	NAVAJO_TOTAL METALS		
2	NAVAJO_TOTAL METALS	Recovery 1 of 1	
3	NAVAJO_TOTAL METALS		
4	NAVAJO_TOTAL METALS		
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS		
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10			
11	METALS_TCLP		
12	METALS_TCLP	Recovery 1 of 11	
13	METALS_SOIL		
14	METALS_SOIL	Recovery 1 of 13	
15	METALS_TCLP		
16	METALS_TCLP		
17	METALS_TCLP		
18	METALS_TCLP		
19	METALS_TCLP		
20	METALS_TCLP		
21	METALS_TCLP		
22	METALS_TCLP		
23	METALS_TCLP		
24	METALS_TCLP		
25	METALS_TCLP		
26	METALS_TCLP		
27	METALS_TCLP		
28	METALS_TCLP		
29	METALS_TCLP	Recovery 1 of 28	
30	METALS_TCLP	Recovery 1 of 28	
31	METALS_TCLP		
32	METALS_TCLP	Recovery 1 of 31	
33	METALS_TCLP	Recovery 1 of 31	
34	METALS_TCLP	Recovery 1 of 31	
35	METALS_TCLP		
36	METALS_TCLP		
37	METALS_TCLP		
38	METALS_TCLP		
39	METALS_TCLP		
40	METALS_TCLP		
41	METALS_SOIL		
42	METALS_SOIL		
43	METALS_SOIL	Recovery 1 of 42	
44	METALS_SOIL	Recovery 1 of 42	
45	METALS_SOIL		
46	METALS_SOIL		

47	METALS_SOIL
48	METALS_SOIL
49	METALS_SOIL
50	METALS_SOIL
51	METALS_SOIL
52	METALS_SOIL
53	METALS_SOIL
54	METALS_SOIL
55	METALS_SOIL
56	METALS_SOIL
57	METALS_SOIL
58	METALS_SOIL
59	METALS_SOIL
60	METALS_SOIL
61	METALS_SOIL
62	METALS_SOIL
63	METALS_SOIL
64	METALS_SOIL
65	METALS_TCLP
66	METALS_SOIL
67	METALS_SOIL
68	METALS_SOIL
69	METALS_SOIL
70	METALS_SOIL
71	METALS_SOIL
72	METALS_SOIL
73	METALS_SOIL

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
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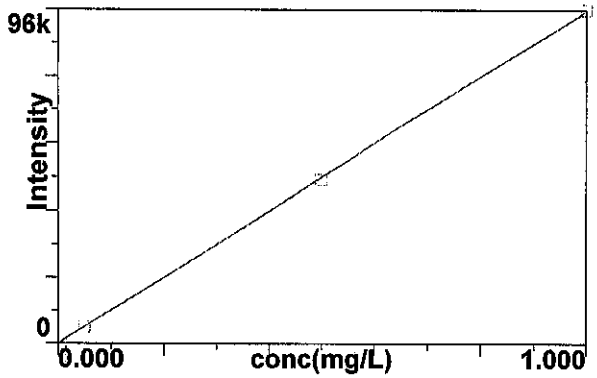
Method: ISIS 010814 6010SOIL
Result: 070714 B14075

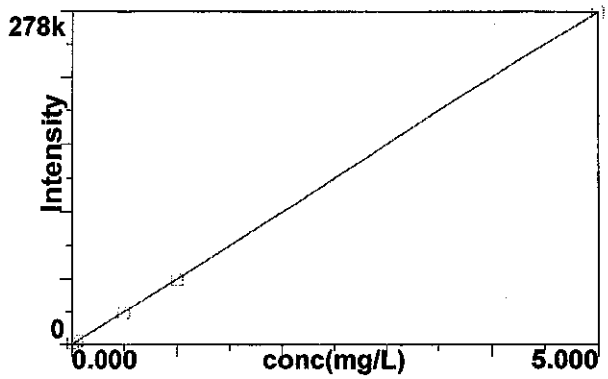
Ag 328.068



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999977

1

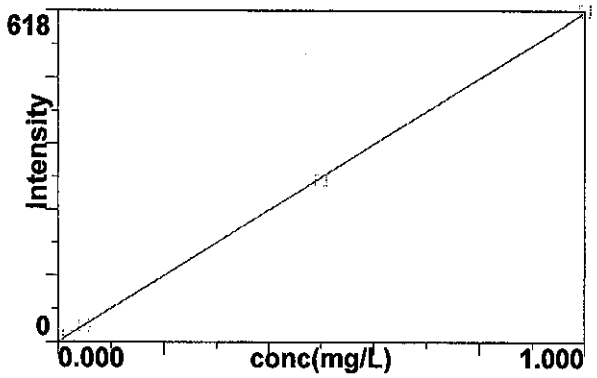
Al 396.153



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

2

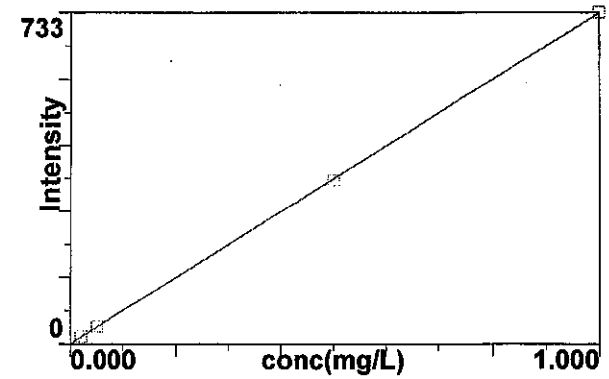
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999948

3

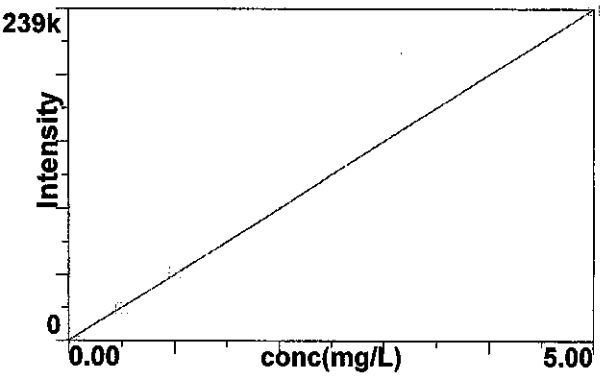
As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999986

4

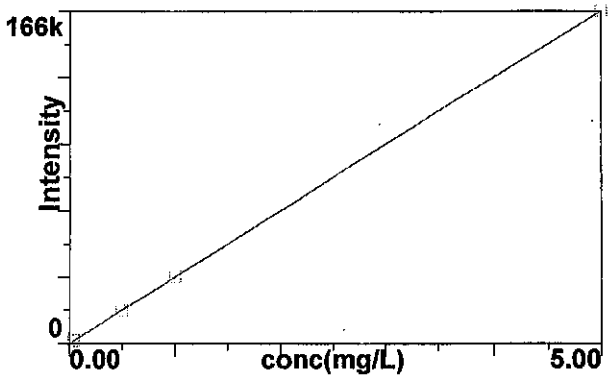
B 249.772



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

5

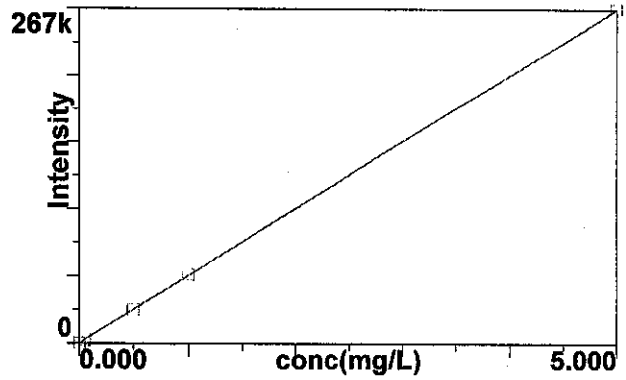
B 249.677



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

6

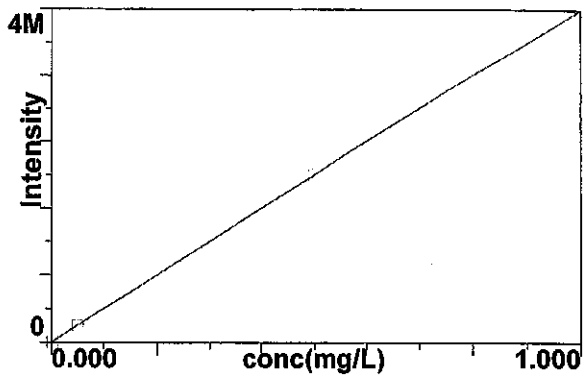
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

7

Be 313.107



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

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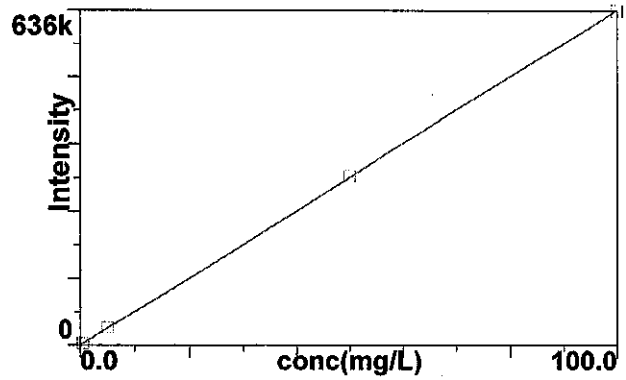
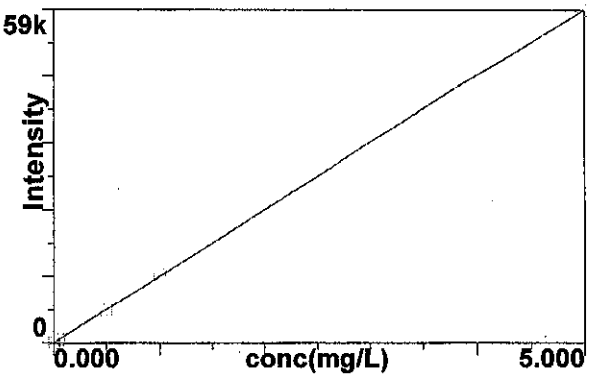
Ca 317.933



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

9

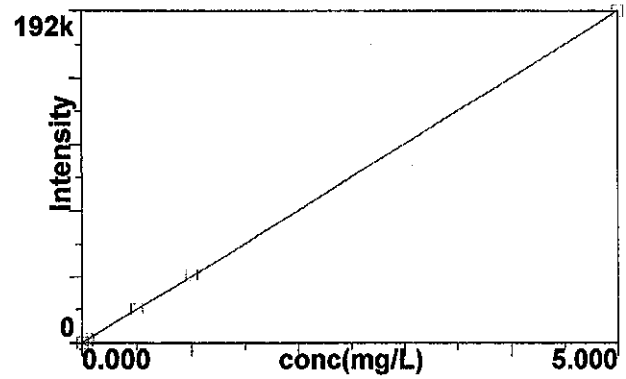
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

10

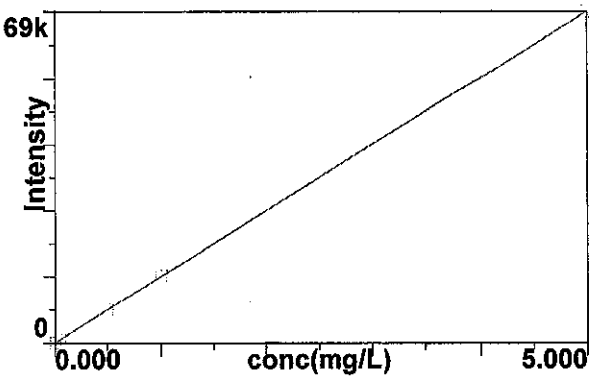
Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

11

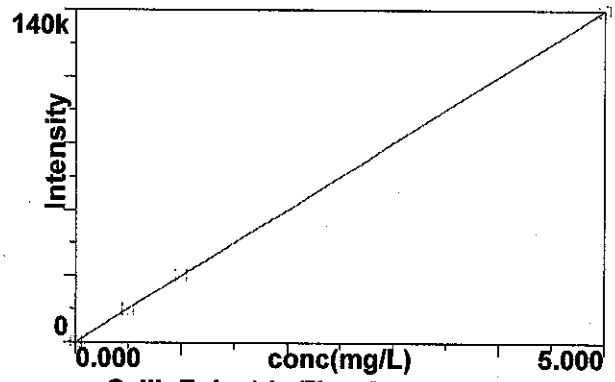
Co 228.616



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

12

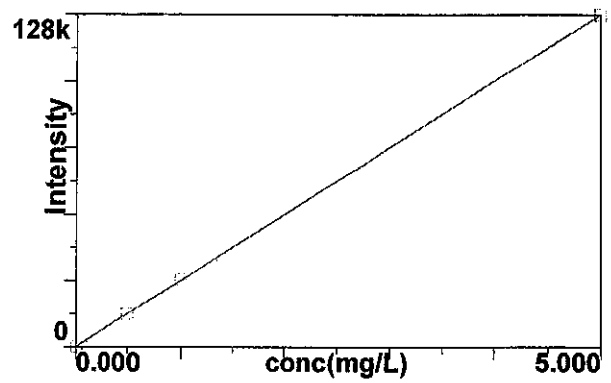
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

13

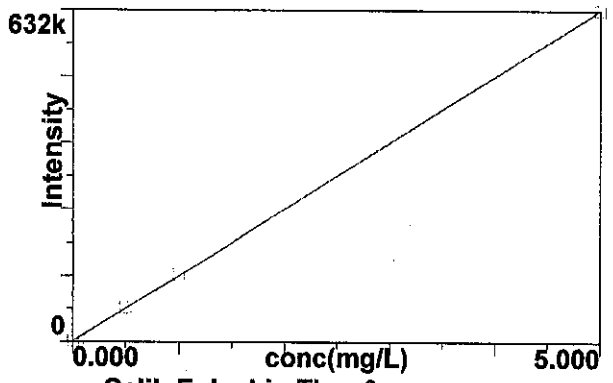
Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

14

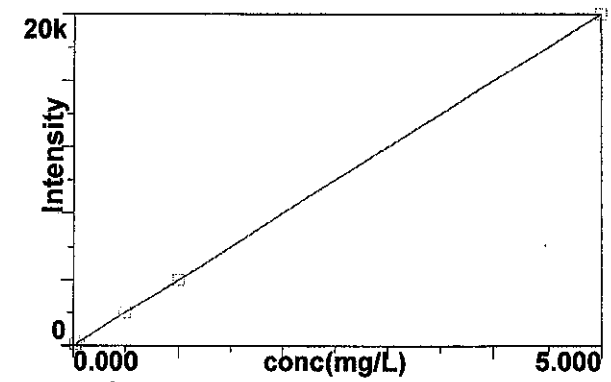
Cu 324.752



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

15

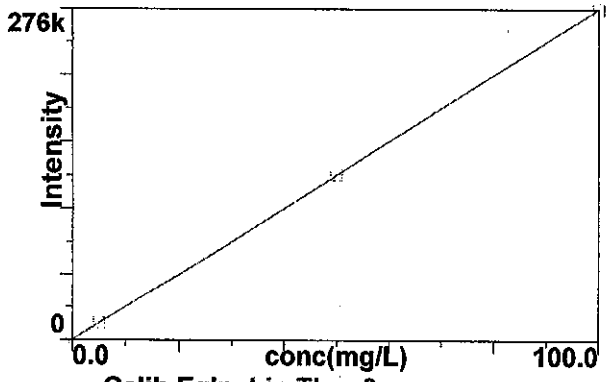
Fe 238.204



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

16

K 766.490



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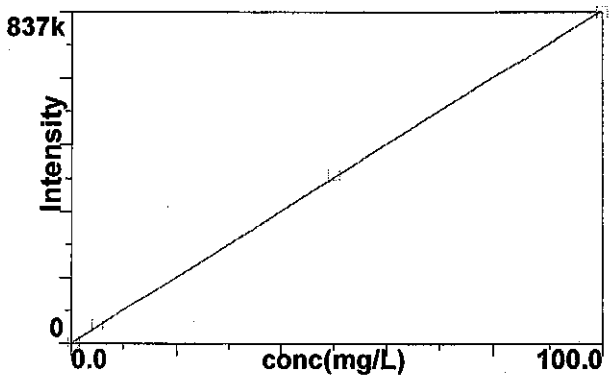
Corr Coeff: 0.999999

17

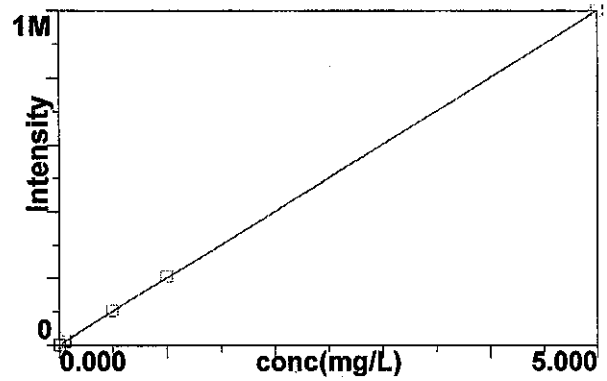
Mg 285.213



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999945

18

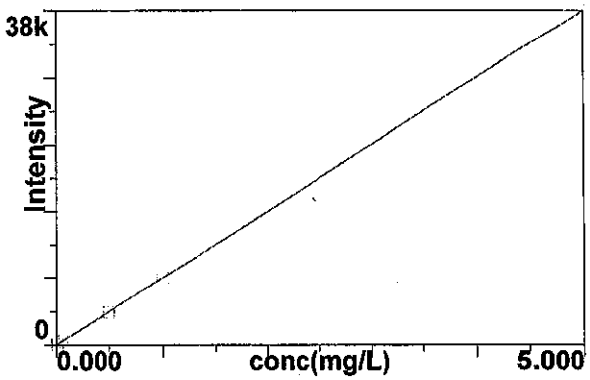
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999985

19

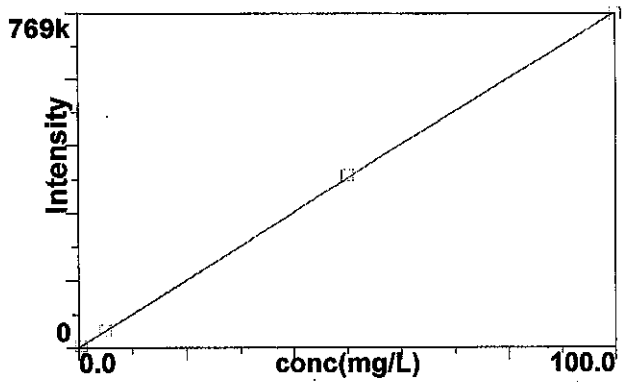
Mo 202.031



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

20

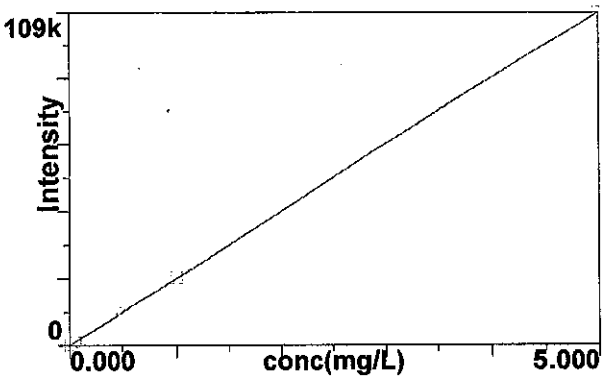
Na 589.592



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999955

21

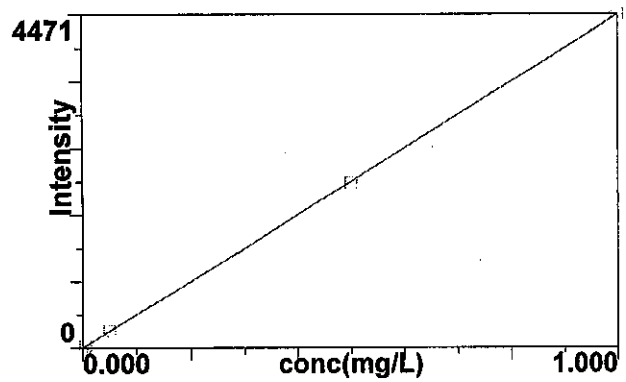
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

22

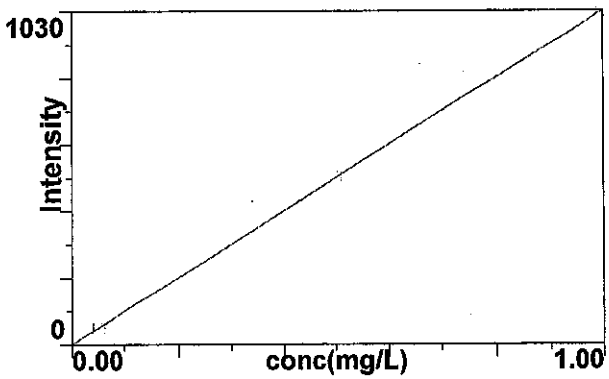
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

23

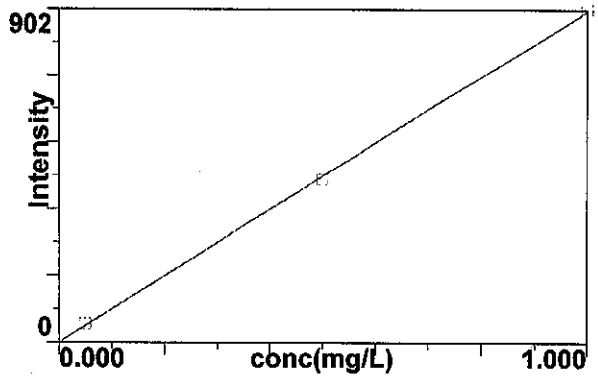
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

24

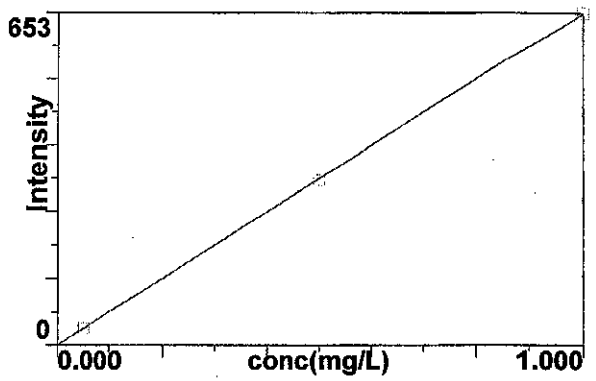
Sb 206.836



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999935

25

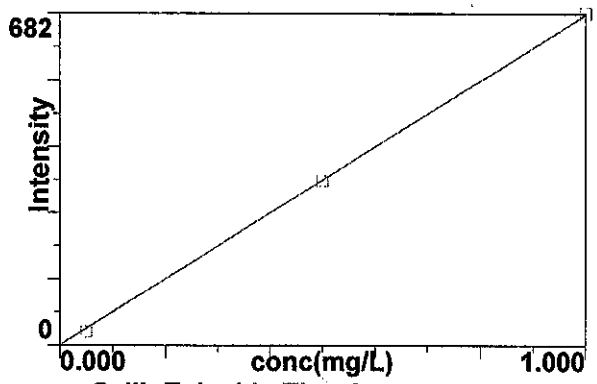
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999984

26

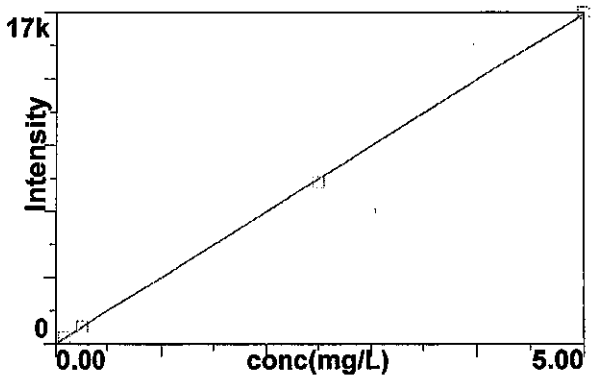
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999952

27

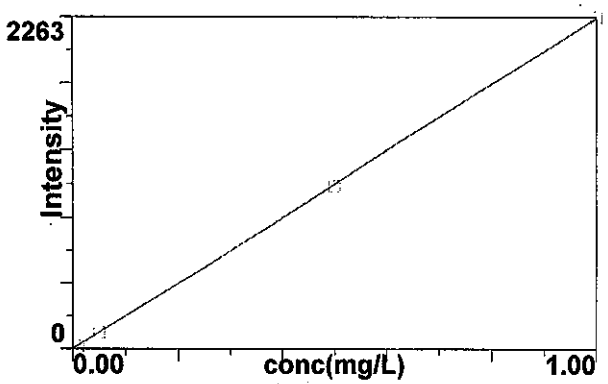
Si 212.412



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999950

28

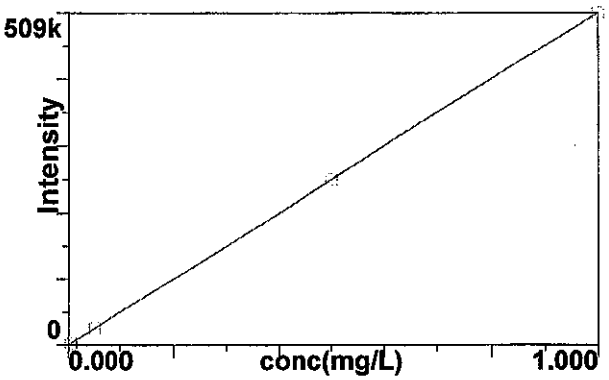
Sn 189.927



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999974

29

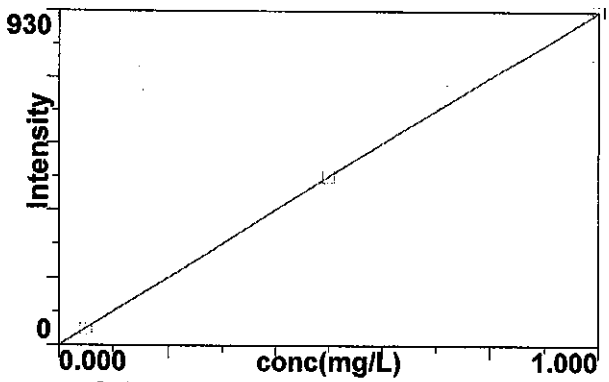
Ti 334.940



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

30

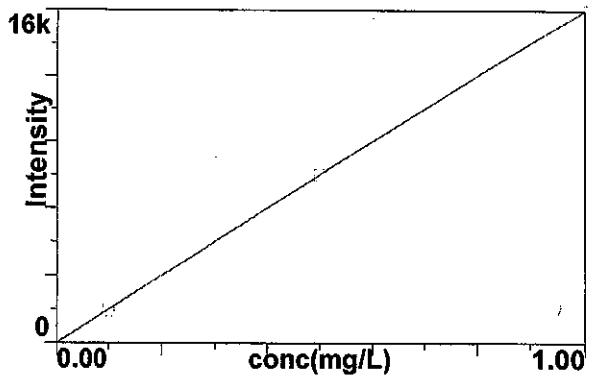
Tl 190.801



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

31

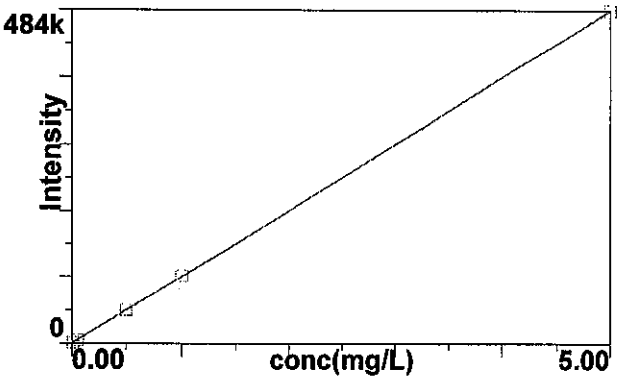
U 385.958



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

32

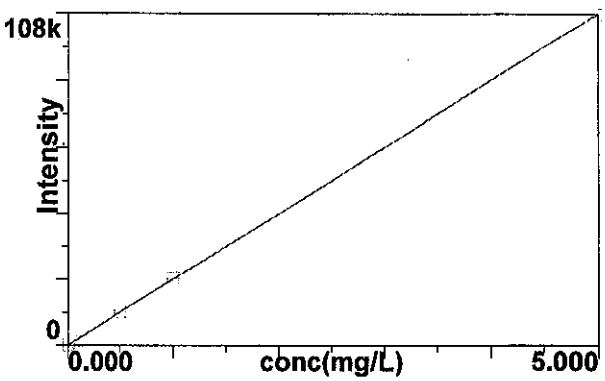
V 292.402



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

33

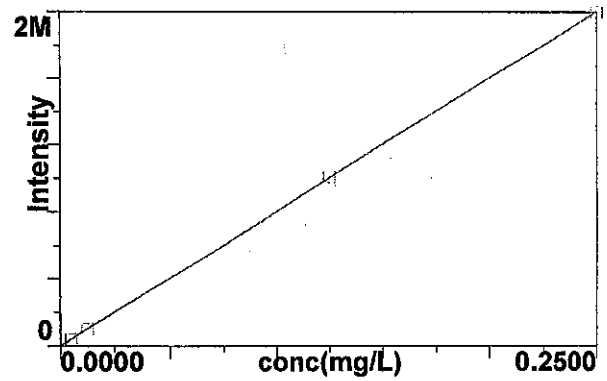
Zn 206.200



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

36

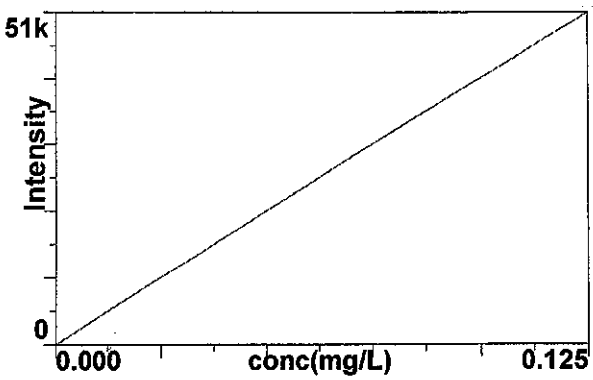
Sr 421.552



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

37

Sr 421.552 R

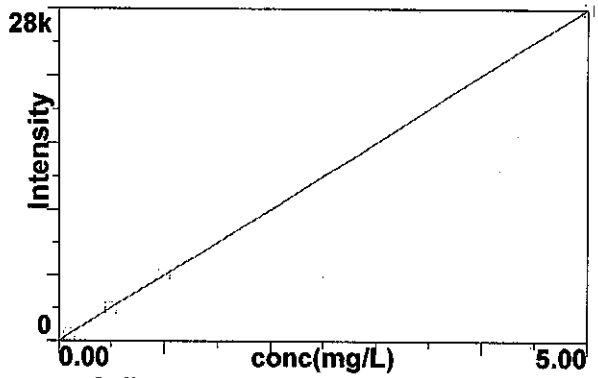


Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

38

Method: ISIS 010814 6010SOIL
Result: 070714 B14075

U 424.167



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

39

Analysis Begun

Start Time: 7/7/2014 11:55:00 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/7/2014 9:12:11 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070714 B14075.sif
Batch ID: 070714 B14075
Results Data Set: 070714 B14075
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/7/2014 11:55:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31985.3	147.25	0.46%	100.00	%
Y 371.029	595703.9	496.36	0.08%	100.00	%
Ag 328.068†	100.0	8.97	8.98%	[0.00]	mg/L
Al 396.153†	26.6	8.75	32.94%	[0.00]	mg/L
As 188.979†	9.8	1.83	18.60%	[0.00]	mg/L
As 193.696†	-5.9	1.49	25.13%	[0.00]	mg/L
B 249.772†	-6191.2	246.15	3.98%	[0.00]	mg/L
B 249.677†	572.3	38.24	6.68%	[0.00]	mg/L
Ba 233.527†	9.4	15.24	162.83%	[0.00]	mg/L
Be 313.107†	2874.0	27.20	0.95%	[0.00]	mg/L
Ca 317.933†	372.1	24.45	6.57%	[0.00]	mg/L
Cd 228.802†	-17.7	1.74	9.86%	[0.00]	mg/L
Cd 226.502†	37.3	3.12	8.35%	[0.00]	mg/L
Co 228.616†	31.2	11.25	36.12%	[0.00]	mg/L
Cr 267.716†	-10.5	1.36	12.97%	[0.00]	mg/L
Cr 205.560†	-35.6	21.52	60.49%	[0.00]	mg/L
Cu 324.752†	-2464.6	20.74	0.84%	[0.00]	mg/L
Fe 238.204†	37.3	4.98	13.32%	[0.00]	mg/L
K 766.490†	1770.4	66.78	3.77%	[0.00]	mg/L
Mg 285.213†	-37.5	6.82	18.17%	[0.00]	mg/L
Mn 257.610†	63.8	17.33	27.17%	[0.00]	mg/L
Mo 202.031†	3.3	4.27	129.11%	[0.00]	mg/L
Na 589.592†	535.2	33.25	6.21%	[0.00]	mg/L
Ni 231.604†	-73.5	4.02	5.47%	[0.00]	mg/L
Pb 220.353†	-27.7	7.68	27.70%	[0.00]	mg/L
Pb 217.000†	8.8	3.40	38.55%	[0.00]	mg/L
Sb 206.836†	-13.0	3.36	25.80%	[0.00]	mg/L
Se 203.985†	0.4	5.56	>999.9%	[0.00]	mg/L
Se 196.026†	-10.2	10.55	103.58%	[0.00]	mg/L
Si 212.412†	121.6	5.82	4.79%	[0.00]	mg/L
Sn 189.927†	5.5	0.90	16.26%	[0.00]	mg/L
Ti 334.940†	-52.2	7.29	13.96%	[0.00]	mg/L
Tl 190.801†	1.1	0.53	48.09%	[0.00]	mg/L
U 385.958†	482.5	25.47	5.28%	[0.00]	mg/L
V 292.402†	768.6	14.92	1.94%	[0.00]	mg/L
Zn 206.200†	5.7	4.02	70.96%	[0.00]	mg/L

Sr 421.552†	1986.9	44.16	2.22%	[0.00] mg/L
Sr 421.552 R†	533.8	40.54	7.59%	[0.00] mg/L
U 424.167†	167.9	82.94	49.41%	[0.00] mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/7/2014 11:56:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32147.9	280.50	0.87%	100.51	%
Y 371.029	587855.1	1991.16	0.34%	98.682	%
Ag 328.068†	436.2	14.36	3.29%	[0.005]	mg/L
Al 396.153†	704.6	27.09	3.84%	[0.01]	mg/L
As 188.979†	9.6	2.30	24.06%	[0.02]	mg/L
As 193.696†	16.2	5.36	33.00%	[0.02]	mg/L
B 249.772†	2168.0	137.84	6.36%	[0.04]	mg/L
B 249.677†	1350.5	23.61	1.75%	[0.04]	mg/L
Ba 233.527†	108.2	12.01	11.10%	[0.002]	mg/L
Be 313.107†	6791.0	38.21	0.56%	[0.002]	mg/L
Ca 317.933†	3294.3	26.96	0.82%	[0.5]	mg/L
Cd 228.802†	24.2	2.74	11.32%	[0.002]	mg/L
Cd 226.502†	71.1	4.33	6.09%	[0.002]	mg/L
Co 228.616†	68.4	7.83	11.45%	[0.006]	mg/L
Cr 267.716†	166.0	6.89	4.15%	[0.006]	mg/L
Cr 205.560†	147.2	3.59	2.44%	[0.006]	mg/L
Cu 324.752†	746.0	20.78	2.79%	[0.006]	mg/L
Fe 238.204†	94.1	11.05	11.74%	[0.02]	mg/L
K 766.490†	1402.6	53.48	3.81%	[0.5]	mg/L
Mg 285.213†	4377.0	11.75	0.27%	[0.5]	mg/L
Mn 257.610†	628.0	14.55	2.32%	[0.002]	mg/L
Mo 202.031†	58.2	0.24	0.40%	[0.008]	mg/L
Na 589.592†	3965.6	24.26	0.61%	[0.5]	mg/L
Ni 231.604†	115.4	9.49	8.23%	[0.005]	mg/L
Pb 220.353†	25.7	0.54	2.09%	[0.005]	mg/L
Si 212.412†	314.0	0.85	0.27%	[0.08]	mg/L
Sn 189.927†	19.6	1.91	9.73%	[0.01]	mg/L
Ti 334.940†	2666.7	51.24	1.92%	[0.005]	mg/L
U 385.958†	1526.9	66.30	4.34%	[0.1]	mg/L
V 292.402†	955.6	8.87	0.93%	[0.01]	mg/L
Zn 206.200†	136.6	5.82	4.26%	[0.005]	mg/L
Sr 421.552†	45308.6	221.82	0.49%	[0.005]	mg/L
U 424.167†	543.4	12.27	2.26%	[0.1]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 7/7/2014 11:58:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow

All	237.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31538.0	56.64	0.18%	98.602	%
Y 371.029	587187.4	4362.32	0.74%	98.570	%
Ag 328.068†	4709.3	37.77	0.80%	[0.05]	mg/L
Al 396.153†	2796.0	17.58	0.63%	[0.050]	mg/L
As 188.979†	29.7	2.83	9.54%	[0.050]	mg/L
As 193.696†	37.8	6.04	15.98%	[0.050]	mg/L
Ba 233.527†	2706.4	50.34	1.86%	[0.05]	mg/L
Be 313.107†	175097.1	286.44	0.16%	[0.05]	mg/L
Cd 228.802†	589.5	8.93	1.52%	[0.05]	mg/L
Cd 226.502†	1938.2	26.91	1.39%	[0.05]	mg/L
Co 228.616†	688.0	3.33	0.48%	[0.05]	mg/L
Cr 267.716†	1427.2	18.49	1.30%	[0.05]	mg/L
Cr 205.560†	1274.0	23.70	1.86%	[0.05]	mg/L
Cu 324.752†	6447.7	52.71	0.82%	[0.050]	mg/L
Fe 238.204†	214.3	3.47	1.62%	[0.050]	mg/L
Mn 257.610†	14993.7	14.00	0.09%	[0.05]	mg/L
Mo 202.031†	372.5	9.68	2.60%	[0.050]	mg/L
Ni 231.604†	1105.7	15.28	1.38%	[0.05]	mg/L
Pb 220.353†	225.4	2.74	1.21%	[0.05]	mg/L
Pb 217.000†	49.5	6.02	12.17%	[0.05]	mg/L
Sb 206.836†	50.6	4.47	8.83%	[0.050]	mg/L
Se 203.985†	32.8	8.93	27.24%	[0.050]	mg/L
Se 196.026†	27.0	4.16	15.42%	[0.050]	mg/L
Si 212.412†	880.6	15.85	1.80%	[0.25]	mg/L
Sn 189.927†	111.5	3.35	3.01%	[0.05]	mg/L
Ti 334.940†	25724.9	59.99	0.23%	[0.05]	mg/L
Tl 190.801†	44.4	2.23	5.03%	[0.050]	mg/L
V 292.402†	4822.5	22.80	0.47%	[0.05]	mg/L
Zn 206.200†	1112.7	9.30	0.84%	[0.05]	mg/L
Sr 421.552†	116006.6	96.38	0.08%	[0.0125]	mg/L

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 7/7/2014 12:00:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32139.6	64.14	0.20%	100.48	%
Y 371.029	578742.7	4959.70	0.86%	97.153	%
Ag 328.068†	47144.2	265.99	0.56%	[0.50]	mg/L
Al 396.153†	26654.6	206.28	0.77%	[0.50]	mg/L
As 188.979†	301.9	3.99	1.32%	[0.50]	mg/L
As 193.696†	362.3	5.43	1.50%	[0.50]	mg/L
B 249.772†	23291.4	942.18	4.05%	[0.50]	mg/L
B 249.677†	16456.9	136.95	0.83%	[0.50]	mg/L
Ba 233.527†	26689.0	101.57	0.38%	[0.50]	mg/L
Be 313.107†	1761558.7	5886.25	0.33%	[0.50]	mg/L
Cd 228.802†	5924.0	56.51	0.95%	[0.50]	mg/L
Cd 226.502†	19285.3	29.70	0.15%	[0.50]	mg/L

Co 228.616†	6981.5	76.16	1.09%	[0.50] mg/L
Cr 267.716†	14018.3	51.22	0.37%	[0.50] mg/L
Cr 205.560†	12659.1	108.07	0.85%	[0.50] mg/L
Cu 324.752†	64205.9	323.56	0.50%	[0.50] mg/L
Fe 238.204†	1983.9	13.82	0.70%	[0.50] mg/L
Mn 257.610†	149473.7	813.94	0.54%	[0.5] mg/L
Mo 202.031†	3732.1	26.93	0.72%	[0.50] mg/L
Ni 231.604†	10888.7	39.83	0.37%	[0.50] mg/L
Pb 220.353†	2219.7	19.50	0.88%	[0.50] mg/L
Pb 217.000†	516.3	4.10	0.79%	[0.50] mg/L
Sb 206.836†	439.8	3.50	0.79%	[0.50] mg/L
Se 203.985†	322.0	5.54	1.72%	[0.50] mg/L
Se 196.026†	337.9	10.51	3.11%	[0.50] mg/L
Si 212.412†	8332.9	46.64	0.56%	[2.5] mg/L
Sn 189.927†	1111.1	4.23	0.38%	[0.50] mg/L
Ti 334.940†	254588.1	1364.64	0.54%	[0.50] mg/L
Tl 190.801†	463.0	3.39	0.73%	[0.50] mg/L
U 385.958†	7939.6	61.87	0.78%	[0.50] mg/L
V 292.402†	48314.6	236.34	0.49%	[0.50] mg/L
Zn 206.200†	10779.7	51.75	0.48%	[0.50] mg/L
Sr 421.552†	1175265.9	2159.35	0.18%	[0.125] mg/L
Sr 421.552 R†	51054.2	311.24	0.61%	[0.125] mg/L
U 424.167†	2776.1	49.82	1.79%	[0.50] mg/L

Sequence No.: 5 **Autosampler Location: 410**
Sample ID: ST4 **Date Collected: 7/7/2014 12:02:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32317.4	254.72	0.79%	101.04	%
Y 371.029	581546.5	2206.29	0.38%	97.623	%
Ag 328.068†	95909.8	456.72	0.48%	[1.00]	mg/L
Al 396.153†	54839.5	265.93	0.48%	[1.00]	mg/L
As 188.979†	618.1	8.74	1.41%	[1.00]	mg/L
As 193.696†	733.1	5.98	0.82%	[1.00]	mg/L
B 249.772†	48645.1	1230.66	2.53%	[1.00]	mg/L
B 249.677†	33167.4	61.34	0.18%	[1.00]	mg/L
Ba 233.527†	54391.8	236.90	0.44%	[1.00]	mg/L
Be 313.107†	3515851.7	9513.31	0.27%	[1.00]	mg/L
Cd 228.802†	12092.5	70.44	0.58%	[1.00]	mg/L
Cd 226.502†	39255.1	243.51	0.62%	[1.00]	mg/L
Co 228.616†	14037.9	142.35	1.01%	[1.00]	mg/L
Cr 267.716†	28514.5	153.01	0.54%	[1.00]	mg/L
Cr 205.560†	25946.7	100.76	0.39%	[1.00]	mg/L
Cu 324.752†	130132.0	965.11	0.74%	[1.00]	mg/L
Fe 238.204†	3967.1	31.20	0.79%	[1.00]	mg/L
Mn 257.610†	302632.2	1678.13	0.55%	[1.00]	mg/L
Mo 202.031†	7563.0	52.68	0.70%	[1.00]	mg/L
Ni 231.604†	22185.1	111.95	0.50%	[1.00]	mg/L
Pb 220.353†	4470.7	38.79	0.87%	[1.00]	mg/L
Pb 217.000†	1030.5	13.45	1.30%	[1.00]	mg/L
Sb 206.836†	901.6	8.09	0.90%	[1.00]	mg/L
Se 203.985†	653.4	12.66	1.94%	[1.00]	mg/L
Se 196.026†	681.6	6.10	0.89%	[1.00]	mg/L

Si 212.412†	17075.3	74.01	0.43%	[5.0]	mg/L
Sn 189.927†	2262.5	17.52	0.77%	[1.00]	mg/L
Ti 334.940†	509460.9	611.67	0.12%	[1.00]	mg/L
Tl 190.801†	930.0	2.18	0.23%	[1.00]	mg/L
U 385.958†	15899.5	135.42	0.85%	[1.00]	mg/L
V 292.402†	98385.9	583.90	0.59%	[1.00]	mg/L
Zn 206.200†	21950.1	125.04	0.57%	[1.00]	mg/L
Sr 421.552†	2336795.6	3914.37	0.17%	[0.25]	mg/L
U 424.167†	5679.3	63.26	1.11%	[1.00]	mg/L

Sequence No.: 6 **Autosampler Location: 413**
Sample ID: ST5 **Date Collected: 7/7/2014 12:04:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31873.4	252.05	0.79%	99.650	%
Y 371.029	578213.5	3691.00	0.64%	97.064	%
Al 396.153†	278409.5	321.97	0.12%	[5.00]	mg/L
B 249.772†	238788.1	583.35	0.24%	[5.00]	mg/L
B 249.677†	165630.4	2332.15	1.41%	[5.00]	mg/L
Ba 233.527†	266525.9	75.58	0.03%	[5.00]	mg/L
Cd 228.802†	59046.9	55.10	0.09%	[5.00]	mg/L
Cd 226.502†	192205.3	218.69	0.11%	[5.00]	mg/L
Co 228.616†	69468.8	207.10	0.30%	[5.00]	mg/L
Cr 267.716†	140347.6	102.17	0.07%	[5.00]	mg/L
Cr 205.560†	127527.2	99.63	0.08%	[5.00]	mg/L
Cu 324.752†	631822.5	1994.89	0.32%	[5.00]	mg/L
Fe 238.204†	19797.5	120.19	0.61%	[5.00]	mg/L
Mn 257.610†	1471989.9	6232.12	0.42%	[5.00]	mg/L
Mo 202.031†	37947.6	72.76	0.19%	[5.00]	mg/L
Ni 231.604†	109475.5	97.28	0.09%	[5.00]	mg/L
V 292.402†	483968.8	573.14	0.12%	[5.00]	mg/L
Zn 206.200†	107888.9	27.08	0.03%	[5.00]	mg/L
U 424.167†	27754.6	120.61	0.43%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	95580	0.00000	0.999977	
Al 396.153	5	Lin Thru 0	0.0	55630	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	615.1	0.00000	0.999948	
As 193.696	4	Lin Thru 0	0.0	731.4	0.00000	0.999986	
B 249.772	4	Lin Thru 0	0.0	47780	0.00000	0.999990	
B 249.677	4	Lin Thru 0	0.0	33130	0.00000	1.000000	
Ba 233.527	5	Lin Thru 0	0.0	53350	0.00000	0.999992	
Be 313.107	4	Lin Thru 0	0.0	3517000	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	6589	0.00000	1.000000	
Cd 228.802	5	Lin Thru 0	0.0	11820	0.00000	0.999989	
Cd 226.502	5	Lin Thru 0	0.0	38470	0.00000	0.999992	
Co 228.616	5	Lin Thru 0	0.0	13900	0.00000	0.999998	
Cr 267.716	5	Lin Thru 0	0.0	28090	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	25520	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	126500	0.00000	0.999983	

Fe 238.204	5	Lin Thru 0	0.0	3960	0.00000	0.999999
K 766.490	1	Lin Thru 0	0.0	2805	0.00000	1.000000
Mg 285.213	1	Lin Thru 0	0.0	8754	0.00000	1.000000
Mn 257.610	5	Lin Thru 0	0.0	294800	0.00000	0.999985
Mo 202.031	5	Lin Thru 0	0.0	7587	0.00000	0.999998
Na 589.592	1	Lin Thru 0	0.0	7931	0.00000	1.000000
Ni 231.604	5	Lin Thru 0	0.0	21910	0.00000	0.999997
Pb 220.353	4	Lin Thru 0	0.0	4465	0.00000	0.999996
Pb 217.000	3	Lin Thru 0	0.0	1031	0.00000	0.999998
Sb 206.836	3	Lin Thru 0	0.0	897.4	0.00000	0.999935
Se 203.985	3	Lin Thru 0	0.0	651.5	0.00000	0.999984
Se 196.026	3	Lin Thru 0	0.0	680.2	0.00000	0.999952
Si 212.412	4	Lin Thru 0	0.0	3399	0.00000	0.999950
Sn 189.927	4	Lin Thru 0	0.0	2254	0.00000	0.999974
Ti 334.940	4	Lin Thru 0	0.0	509400	0.00000	1.000000
Tl 190.801	3	Lin Thru 0	0.0	929.1	0.00000	0.999996
U 385.958	3	Lin Thru 0	0.0	15890	0.00000	0.999994
V 292.402	5	Lin Thru 0	0.0	96850	0.00000	0.999995
Zn 206.200	5	Lin Thru 0	0.0	21590	0.00000	0.999994
Sr 421.552	4	Lin Thru 0	0.0	9358000	0.00000	0.999997
Sr 421.552 R	1	Lin Thru 0	0.0	408400	0.00000	1.000000
U 424.167	4	Lin Thru 0	0.0	5556	0.00000	0.999990

Sequence No.: 7
Sample ID: ST6
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 411
Date Collected: 7/7/2014 12:05:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST6

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32119.1	693.87	2.16%	100.42	%
Y 371.029	584254.7	2520.77	0.43%	98.078	%
Ca 317.933†	33509.8	65.39	0.20%	[5]	mg/L
K 766.490†	13964.4	180.23	1.29%	[5]	mg/L
Mg 285.213†	45066.8	138.18	0.31%	[5]	mg/L
Na 589.592†	40208.8	195.97	0.49%	[5]	mg/L

Sequence No.: 8
Sample ID: ST7
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 12:06:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST7

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST7

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32287.4	80.45	0.25%	100.94	%
Y 371.029	588908.8	3891.53	0.66%	98.859	%

Ca 317.933†	322542.6	658.13	0.20%	[50] mg/L
K 766.490†	138614.1	361.36	0.26%	[50] mg/L
Mg 285.213†	429265.9	1214.38	0.28%	[50] mg/L
Na 589.592†	393312.6	2486.60	0.63%	[50] mg/L

Sequence No.: 9 **Autosampler Location: 412**
Sample ID: ST8 **Date Collected: 7/7/2014 12:08:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST8

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST8

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32584.4	469.60	1.44%	101.87	%
Y 371.029	574493.0	934.04	0.16%	96.439	%
Ca 317.933†	636390.8	14053.59	2.21%	[100]	mg/L
K 766.490†	276320.2	1057.93	0.38%	[100]	mg/L
Mg 285.213†	837435.2	17073.55	2.04%	[100]	mg/L
Na 589.592†	768569.8	15635.20	2.03%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	95580	0.00000	0.999977	
Al 396.153	5	Lin Thru 0	0.0	55630	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	615.1	0.00000	0.999948	
As 193.696	4	Lin Thru 0	0.0	731.4	0.00000	0.999986	
B 249.772	4	Lin Thru 0	0.0	47780	0.00000	0.999990	
B 249.677	4	Lin Thru 0	0.0	33130	0.00000	1.000000	
Ba 233.527	5	Lin Thru 0	0.0	53350	0.00000	0.999992	
Be 313.107	4	Lin Thru 0	0.0	3517000	0.00000	1.000000	
Ca 317.933	4	Lin Thru 0	0.0	6382	0.00000	0.999983	
Cd 228.802	5	Lin Thru 0	0.0	11820	0.00000	0.999989	
Cd 226.502	5	Lin Thru 0	0.0	38470	0.00000	0.999992	
Co 228.616	5	Lin Thru 0	0.0	13900	0.00000	0.999998	
Cr 267.716	5	Lin Thru 0	0.0	28090	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	25520	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	126500	0.00000	0.999983	
Fe 238.204	5	Lin Thru 0	0.0	3960	0.00000	0.999999	
K 766.490	4	Lin Thru 0	0.0	2765	0.00000	0.999999	
Mg 285.213	4	Lin Thru 0	0.0	8418	0.00000	0.999945	
Mn 257.610	5	Lin Thru 0	0.0	294800	0.00000	0.999985	
Mo 202.031	5	Lin Thru 0	0.0	7587	0.00000	0.999998	
Na 589.592	4	Lin Thru 0	0.0	7722	0.00000	0.999955	
Ni 231.604	5	Lin Thru 0	0.0	21910	0.00000	0.999997	
Pb 220.353	4	Lin Thru 0	0.0	4465	0.00000	0.999996	
Pb 217.000	3	Lin Thru 0	0.0	1031	0.00000	0.999998	
Sb 206.836	3	Lin Thru 0	0.0	897.4	0.00000	0.999935	
Se 203.985	3	Lin Thru 0	0.0	651.5	0.00000	0.999984	
Se 196.026	3	Lin Thru 0	0.0	680.2	0.00000	0.999952	
Si 212.412	4	Lin Thru 0	0.0	3399	0.00000	0.999950	
Sn 189.927	4	Lin Thru 0	0.0	2254	0.00000	0.999974	
Ti 334.940	4	Lin Thru 0	0.0	509400	0.00000	1.000000	
Tl 190.801	3	Lin Thru 0	0.0	929.1	0.00000	0.999996	
U 385.958	3	Lin Thru 0	0.0	15890	0.00000	0.999994	
V 292.402	5	Lin Thru 0	0.0	96850	0.00000	0.999995	

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Zn 206.200	5	Lin Thru 0	0.0	21590	0.00000	0.999994
Sr 421.552	4	Lin Thru 0	0.0	9358000	0.00000	0.999997
Sr 421.552 R	1	Lin Thru 0	0.0	408400	0.00000	1.000000
U 424.167	4	Lin Thru 0	0.0	5556	0.00000	0.999990

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 401
Date Collected: 7/7/2014 12:09:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029 R	32093.6	100.34	%	1.083				1.08%
Y 371.029	586950.7	98.531	%	0.6122				0.62%
Ag 328.068†	49249.3	0.51525	mg/L	0.003025	0.51525	mg/L	0.003025	0.59%
QC value within limits for Ag 328.068 Recovery = 103.05%								
Al 396.153†	28109.5	0.50532	mg/L	0.003590	0.50532	mg/L	0.003590	0.71%
QC value within limits for Al 396.153 Recovery = 101.06%								
As 188.979†	319.9	0.51997	mg/L	0.006164	0.51997	mg/L	0.006164	1.19%
QC value within limits for As 188.979 Recovery = 103.99%								
As 193.696†	378.7	0.51771	mg/L	0.013709	0.51771	mg/L	0.013709	2.65%
B 249.772†	24830.5	0.51968	mg/L	0.012994	0.51968	mg/L	0.012994	2.50%
QC value within limits for B 249.772 Recovery = 103.94%								
B 249.677†	17211.6	0.520	mg/L	0.0032	0.520	mg/L	0.0032	0.62%
Ba 233.527†	27899.3	0.52297	mg/L	0.003420	0.52297	mg/L	0.003420	0.65%
QC value within limits for Ba 233.527 Recovery = 104.59%								
Be 313.107†	1834609.6	0.52160	mg/L	0.000813	0.52160	mg/L	0.000813	0.16%
QC value within limits for Be 313.107 Recovery = 104.32%								
Ca 317.933†	326.4	0.05114	mg/L	0.001952	0.05114	mg/L	0.001952	3.82%
Cd 228.802†	6131.8	0.51875	mg/L	0.004907	0.51875	mg/L	0.004907	0.95%
QC value within limits for Cd 228.802 Recovery = 103.75%								
Cd 226.502†	20032.3	0.52068	mg/L	0.004455	0.52068	mg/L	0.004455	0.86%
Co 228.616†	7134.2	0.51326	mg/L	0.005900	0.51326	mg/L	0.005900	1.15%
QC value within limits for Co 228.616 Recovery = 102.65%								
Cr 267.716†	14695.1	0.52321	mg/L	0.003611	0.52321	mg/L	0.003611	0.69%
Cr 205.560†	13292.9	0.52087	mg/L	0.004793	0.52087	mg/L	0.004793	0.92%
QC value within limits for Cr 205.560 Recovery = 104.17%								
Cu 324.752†	66903.5	0.52877	mg/L	0.003154	0.52877	mg/L	0.003154	0.60%
QC value within limits for Cu 324.752 Recovery = 105.75%								
Fe 238.204†	2108.6	0.53249	mg/L	0.007330	0.53249	mg/L	0.007330	1.38%
QC value within limits for Fe 238.204 Recovery = 106.50%								
K 766.490†	55.0	0.01989	mg/L	0.050518	0.01989	mg/L	0.050518	253.99%
Mg 285.213†	13.4	0.00160	mg/L	0.001249	0.00160	mg/L	0.001249	78.27%
Mn 257.610†	155746.0	0.52839	mg/L	0.003905	0.52839	mg/L	0.003905	0.74%
QC value within limits for Mn 257.610 Recovery = 105.68%								
Mo 202.031†	3900.6	0.51409	mg/L	0.004598	0.51409	mg/L	0.004598	0.89%
QC value within limits for Mo 202.031 Recovery = 102.82%								
Na 589.592†	82.1	0.01063	mg/L	0.018058	0.01063	mg/L	0.018058	169.95%
Ni 231.604†	11570.8	0.52823	mg/L	0.003973	0.52823	mg/L	0.003973	0.75%
QC value within limits for Ni 231.604 Recovery = 105.65%								
Pb 220.353†	2342.4	0.52466	mg/L	0.006639	0.52466	mg/L	0.006639	1.27%
QC value within limits for Pb 220.353 Recovery = 104.93%								
Pb 217.000†	531.5	0.51563	mg/L	0.004940	0.51563	mg/L	0.004940	0.96%
Sb 206.836†	453.0	0.50486	mg/L	0.006309	0.50486	mg/L	0.006309	1.25%
QC value within limits for Sb 206.836 Recovery = 100.97%								
Se 203.985†	334.5	0.51338	mg/L	0.014787	0.51338	mg/L	0.014787	2.88%

Se 196.026†	352.2	0.51783 mg/L	0.019572	0.51783 mg/L	0.019572	3.78%
QC value within limits for Se 196.026 Recovery = 103.57%						
Si 212.412†	8732.8	2.569 mg/L	0.0209	2.569 mg/L	0.0209	0.81%
QC value within limits for Si 212.412 Recovery = 102.77%						
Sn 189.927†	1161.1	0.51502 mg/L	0.003470	0.51502 mg/L	0.003470	0.67%
QC value within limits for Sn 189.927 Recovery = 103.00%						
Ti 334.940†	265471.8	0.52113 mg/L	0.000950	0.52113 mg/L	0.000950	0.18%
QC value within limits for Ti 334.940 Recovery = 104.23%						
Tl 190.801†	472.4	0.50846 mg/L	0.002575	0.50846 mg/L	0.002575	0.51%
QC value within limits for Tl 190.801 Recovery = 101.69%						
U 385.958†	8322.3	0.52373 mg/L	0.006736	0.52373 mg/L	0.006736	1.29%
V 292.402†	50648.7	0.52295 mg/L	0.003472	0.52295 mg/L	0.003472	0.66%
QC value within limits for V 292.402 Recovery = 104.59%						
Zn 206.200†	11314.8	0.52403 mg/L	0.005432	0.52403 mg/L	0.005432	1.04%
QC value within limits for Zn 206.200 Recovery = 104.81%						
Sr 421.552†	1193765.3	0.12757 mg/L	0.000177	0.12757 mg/L	0.000177	0.14%
QC value within limits for Sr 421.552 Recovery = 102.05%						
Sr 421.552 R†	52258.0	0.128 mg/L	0.0006	0.128 mg/L	0.0006	0.43%
U 424.167†	2893.6	0.52083 mg/L	0.013810	0.52083 mg/L	0.013810	2.65%
QC value within limits for U 424.167 Recovery = 104.17%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 402
Date Collected: 7/7/2014 12:11:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV CAT

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	33164.3	103.69	%	0.501				0.48%
Y 371.029	599546.9	100.65	%	0.761				0.76%
Ag 328.068†	-18.9	-0.00020	mg/L	0.000154	-0.00020	mg/L	0.000154	77.84%
Al 396.153†	108.2	0.00194	mg/L	0.000433	0.00194	mg/L	0.000433	22.25%
As 188.979†	1.9	0.00303	mg/L	0.005119	0.00303	mg/L	0.005119	169.16%
As 193.696†	-4.8	-0.00658	mg/L	0.004798	-0.00658	mg/L	0.004798	72.89%
B 249.772†	-1601.9	-0.03353	mg/L	0.003377	-0.03353	mg/L	0.003377	10.07%
B 249.677†	52.2	0.002	mg/L	0.0001	0.002	mg/L	0.0001	6.59%
Ba 233.527†	-6.1	-0.00011	mg/L	0.000184	-0.00011	mg/L	0.000184	161.06%
Be 313.107†	518.9	0.00015	mg/L	0.000024	0.00015	mg/L	0.000024	16.49%
Ca 317.933†	323002.7	50.612	mg/L	0.0546	50.612	mg/L	0.0546	0.11%
QC value within limits for Ca 317.933 Recovery = 101.22%								
Cd 228.802†	-12.6	-0.00106	mg/L	0.000244	-0.00106	mg/L	0.000244	22.93%
Cd 226.502†	8.1	0.00021	mg/L	0.000179	0.00021	mg/L	0.000179	85.75%
Co 228.616†	11.0	0.00079	mg/L	0.000338	0.00079	mg/L	0.000338	42.71%
Cr 267.716†	25.9	0.00092	mg/L	0.000154	0.00092	mg/L	0.000154	16.63%
Cr 205.560†	-9.8	-0.00038	mg/L	0.000661	-0.00038	mg/L	0.000661	173.09%
Cu 324.752†	-236.9	-0.00187	mg/L	0.000389	-0.00187	mg/L	0.000389	20.76%
Fe 238.204†	3.3	0.00083	mg/L	0.000895	0.00083	mg/L	0.000895	107.74%
K 766.490†	135805.4	49.115	mg/L	0.0752	49.115	mg/L	0.0752	0.15%
QC value within limits for K 766.490 Recovery = 98.23%								
Mg 285.213†	421926.4	50.123	mg/L	0.0848	50.123	mg/L	0.0848	0.17%
QC value within limits for Mg 285.213 Recovery = 100.25%								
Mn 257.610†	542.1	0.00184	mg/L	0.000145	0.00184	mg/L	0.000145	7.91%
Mo 202.031†	14.6	0.00193	mg/L	0.000831	0.00193	mg/L	0.000831	43.14%
Na 589.592†	385086.5	49.866	mg/L	0.1059	49.866	mg/L	0.1059	0.21%
QC value within limits for Na 589.592 Recovery = 99.73%								

Ni 231.604†	-4.7	-0.00022 mg/L	0.000259	-0.00022 mg/L	0.000259	120.47%
Pb 220.353†	8.5	0.00191 mg/L	0.001737	0.00191 mg/L	0.001737	91.11%
Pb 217.000†	0.0	0.00003 mg/L	0.003701	0.00003 mg/L	0.003701	>999.9%
Sb 206.836†	-2.4	-0.00265 mg/L	0.001368	-0.00265 mg/L	0.001368	51.62%
Se 203.985†	-36.0	-0.05532 mg/L	0.015357	-0.05532 mg/L	0.015357	27.76%
Se 196.026†	-18.5	-0.02713 mg/L	0.009640	-0.02713 mg/L	0.009640	35.54%
Si 212.412†	-12.9	-0.004 mg/L	0.0011	-0.004 mg/L	0.0011	28.39%
Sn 189.927†	14.7	0.00650 mg/L	0.003377	0.00650 mg/L	0.003377	51.95%
Ti 334.940†	991.6	0.00195 mg/L	0.000038	0.00195 mg/L	0.000038	1.93%
Tl 190.801†	8.6	0.00929 mg/L	0.003253	0.00929 mg/L	0.003253	35.01%
U 385.958†	68.7	0.00433 mg/L	0.000428	0.00433 mg/L	0.000428	9.89%
V 292.402†	150.3	0.00155 mg/L	0.000085	0.00155 mg/L	0.000085	5.48%
Zn 206.200†	28.3	0.00131 mg/L	0.000191	0.00131 mg/L	0.000191	14.55%
Sr 421.552†	2289.6	0.00024 mg/L	0.000008	0.00024 mg/L	0.000008	3.09%
Sr 421.552 R†	17.0	0.000 mg/L	0.0001	0.000 mg/L	0.0001	258.21%
U 424.167†	-186.3	-0.03353 mg/L	0.012149	-0.03353 mg/L	0.012149	36.23%

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 12:12:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31151.5	97.393	%	0.8301				0.85%
Y 371.029	571389.0	95.918	%	0.5743				0.60%
Ag 328.068†	5.0	0.00005	mg/L	0.000264	0.00005	mg/L	0.000264	504.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	4.7	0.00008	mg/L	0.000110	0.00008	mg/L	0.000110	130.66%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.9	0.00149	mg/L	0.004176	0.00149	mg/L	0.004176	279.57%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-4.3	-0.00582	mg/L	0.012294	-0.00582	mg/L	0.012294	211.40%
B 249.772†	-600.6	-0.01257	mg/L	0.004617	-0.01257	mg/L	0.004617	36.73%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	46.2	0.001	mg/L	0.0009	0.001	mg/L	0.0009	62.26%
Ba 233.527†	-1.0	-0.00002	mg/L	0.000336	-0.00002	mg/L	0.000336	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	246.3	0.00007	mg/L	0.000025	0.00007	mg/L	0.000025	35.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-5.9	-0.00092	mg/L	0.004227	-0.00092	mg/L	0.004227	458.21%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-2.9	-0.00025	mg/L	0.000287	-0.00025	mg/L	0.000287	115.82%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.6	0.00017	mg/L	0.000092	0.00017	mg/L	0.000092	53.15%
Co 228.616†	-11.5	-0.00083	mg/L	0.000376	-0.00083	mg/L	0.000376	45.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.9	0.00007	mg/L	0.000197	0.00007	mg/L	0.000197	295.97%
Cr 205.560†	4.0	0.00016	mg/L	0.000262	0.00016	mg/L	0.000262	168.81%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-180.2	-0.00142	mg/L	0.000065	-0.00142	mg/L	0.000065	4.57%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	2.8	0.00071	mg/L	0.003068	0.00071	mg/L	0.003068	434.19%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	229.0	0.08282	mg/L	0.033058	0.08282	mg/L	0.033058	39.92%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 285.213†	3.3	0.00039 mg/L	0.000694	0.00039 mg/L	0.000694	176.37%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	6.8	0.00002 mg/L	0.000063	0.00002 mg/L	0.000063	273.70%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.3	0.00057 mg/L	0.000148	0.00057 mg/L	0.000148	25.83%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	217.8	0.02821 mg/L	0.009204	0.02821 mg/L	0.009204	32.63%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-2.3	-0.00011 mg/L	0.000335	-0.00011 mg/L	0.000335	314.00%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	0.7	0.00016 mg/L	0.001696	0.00016 mg/L	0.001696	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	-2.4	-0.00230 mg/L	0.004110	-0.00230 mg/L	0.004110	178.33%
Sb 206.836†	5.0	0.00554 mg/L	0.004724	0.00554 mg/L	0.004724	85.33%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 203.985†	7.0	0.01080 mg/L	0.010465	0.01080 mg/L	0.010465	96.91%
Se 196.026†	-9.6	-0.01408 mg/L	0.005547	-0.01408 mg/L	0.005547	39.39%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 212.412†	14.2	0.004 mg/L	0.0032	0.004 mg/L	0.0032	76.17%
QC value within limits for Si 212.412 Recovery = Not calculated							
Sn 189.927†	0.5	0.00020 mg/L	0.001311	0.00020 mg/L	0.001311	640.84%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	33.9	0.00007 mg/L	0.000012	0.00007 mg/L	0.000012	18.71%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.1	0.00015 mg/L	0.006387	0.00015 mg/L	0.006387	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 385.958†	62.8	0.00395 mg/L	0.003903	0.00395 mg/L	0.003903	98.73%
V 292.402†	67.6	0.00070 mg/L	0.000105	0.00070 mg/L	0.000105	14.98%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	2.8	0.00013 mg/L	0.000079	0.00013 mg/L	0.000079	60.69%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Sr 421.552†	175.4	0.00002 mg/L	0.000005	0.00002 mg/L	0.000005	24.96%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Sr 421.552 R†	11.1	0.000 mg/L	0.0001	0.000 mg/L	0.0001	198.98%
U 424.167†	-46.7	-0.00840 mg/L	0.011983	-0.00840 mg/L	0.011983	142.59%
QC value within limits for U 424.167 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/7/2014 12:14:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31445.2	98.311	%	0.6167				0.63%
Y 371.029	572067.7	96.032	%	1.0415				1.08%
Ag 328.068†	456.9	0.00478	mg/L	0.000089	0.00478	mg/L	0.000089	1.86%
QC value within limits for Ag 328.068 Recovery = 95.59%								
Al 396.153†	735.0	0.01321	mg/L	0.000562	0.01321	mg/L	0.000562	4.26%
QC value within limits for Al 396.153 Recovery = 132.13%								
As 188.979†	12.1	0.01973	mg/L	0.003912	0.01973	mg/L	0.003912	19.83%
QC value within limits for As 188.979 Recovery = 98.63%								
As 193.696†	12.8	0.01754	mg/L	0.002136	0.01754	mg/L	0.002136	12.18%
B 249.772†	1921.2	0.04021	mg/L	0.004399	0.04021	mg/L	0.004399	10.94%

NBP 7/18/14

QC value within limits for B 249.772 Recovery = 100.52%

B 249.677†	1451.4	0.044 mg/L	0.0008	0.044 mg/L	0.0008	1.79%
Ba 233.527†	99.8	0.00187 mg/L	0.000384	0.00187 mg/L	0.000384	20.53%

QC value within limits for Ba 233.527 Recovery = 93.55%

Be 313.107†	7523.6	0.00214 mg/L	0.000034	0.00214 mg/L	0.000034	1.57%

QC value within limits for Be 313.107 Recovery = 106.95%

Ca 317.933†	3607.4	0.56525 mg/L	0.003881	0.56525 mg/L	0.003881	0.69%

QC value within limits for Ca 317.933 Recovery = 113.05%

Cd 228.802†	23.2	0.00196 mg/L	0.000235	0.00196 mg/L	0.000235	12.02%

QC value within limits for Cd 228.802 Recovery = 97.96%

Co 226.502†	82.5	0.00215 mg/L	0.000062	0.00215 mg/L	0.000062	2.91%
Co 228.616†	90.1	0.00648 mg/L	0.001215	0.00648 mg/L	0.001215	18.75%

QC value within limits for Co 228.616 Recovery = 107.98%

Cr 267.716†	183.1	0.00652 mg/L	0.000288	0.00652 mg/L	0.000288	4.43%
Cr 205.560†	155.2	0.00608 mg/L	0.000094	0.00608 mg/L	0.000094	1.54%

QC value within limits for Cr 205.560 Recovery = 101.33%

Cu 324.752†	651.8	0.00515 mg/L	0.000428	0.00515 mg/L	0.000428	8.31%

QC value within limits for Cu 324.752 Recovery = 85.86%

Fe 238.204†	91.5	0.02311 mg/L	0.001009	0.02311 mg/L	0.001009	4.37%

QC value within limits for Fe 238.204 Recovery = 115.53%

K 766.490†	1612.3	0.58310 mg/L	0.022720	0.58310 mg/L	0.022720	3.90%

QC value within limits for K 766.490 Recovery = 116.62%

Mg 285.213†	4663.1	0.55396 mg/L	0.001524	0.55396 mg/L	0.001524	0.28%

QC value within limits for Mg 285.213 Recovery = 110.79%

Mn 257.610†	657.5	0.00223 mg/L	0.000010	0.00223 mg/L	0.000010	0.46%

QC value within limits for Mn 257.610 Recovery = 111.53%

Mo 202.031†	65.7	0.00866 mg/L	0.000416	0.00866 mg/L	0.000416	4.81%

QC value within limits for Mo 202.031 Recovery = 108.30%

Na 589.592†	4332.1	0.56097 mg/L	0.015377	0.56097 mg/L	0.015377	2.74%

QC value within limits for Na 589.592 Recovery = 112.19%

Ni 231.604†	121.5	0.00555 mg/L	0.000337	0.00555 mg/L	0.000337	6.08%

QC value within limits for Ni 231.604 Recovery = 110.94%

Pb 220.353†	23.4	0.00525 mg/L	0.001237	0.00525 mg/L	0.001237	23.55%

QC value within limits for Pb 220.353 Recovery = 105.04%

Pb 217.000†	8.8	0.00856 mg/L	0.006034	0.00856 mg/L	0.006034	70.51%
Sb 206.836†	46.9	0.05221 mg/L	0.004949	0.05221 mg/L	0.004949	9.48%

QC value within limits for Sb 206.836 Recovery = 104.42%

Se 203.985†	38.2	0.05867 mg/L	0.018890	0.05867 mg/L	0.018890	32.20%
Se 196.026†	32.1	0.04712 mg/L	0.016210	0.04712 mg/L	0.016210	34.40%

QC value within limits for Se 196.026 Recovery = 94.24%

Si 212.412†	346.5	0.102 mg/L	0.0032	0.102 mg/L	0.0032	3.13%

QC value within limits for Si 212.412 Recovery = 127.43%

Sn 189.927†	26.0	0.01154 mg/L	0.000731	0.01154 mg/L	0.000731	6.33%

QC value within limits for Sn 189.927 Recovery = 115.37%

Ti 334.940†	2824.3	0.00554 mg/L	0.000010	0.00554 mg/L	0.000010	0.17%

QC value within limits for Ti 334.940 Recovery = 110.88%

Tl 190.801†	47.4	0.05097 mg/L	0.002788	0.05097 mg/L	0.002788	5.47%

QC value within limits for Tl 190.801 Recovery = 101.95%

U 385.958†	1697.9	0.10685 mg/L	0.001827	0.10685 mg/L	0.001827	1.71%
V 292.402†	1070.0	0.01105 mg/L	0.000252	0.01105 mg/L	0.000252	2.28%

QC value within limits for V 292.402 Recovery = 110.48%

Zn 206.200†	144.7	0.00670 mg/L	0.000060	0.00670 mg/L	0.000060	0.90%

QC value within limits for Zn 206.200 Recovery = 134.00%

Sr 421.552†	48529.5	0.00519 mg/L	0.000017	0.00519 mg/L	0.000017	0.34%

QC value within limits for Sr 421.552 Recovery = 103.72%

Sr 421.552 R†	2117.6	0.005 mg/L	0.0001	0.005 mg/L	0.0001	1.12%

QC value within limits for Sr 421.552 R Recovery = 103.70%

U 424.167†	535.4	0.09637 mg/L	0.005689	0.09637 mg/L	0.005689	5.90%

QC value within limits for U 424.167 Recovery = 96.37%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:

Autosampler Location: 403
Date Collected: 7/7/2014 12:16:31 PM
Data Type: Original
Initial Sample Vol:

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32075.3	100.28	%	0.650				0.65%
Y 371.029	580194.2	97.396	%	0.7414				0.76%
Ag 328.068†	50421.8	0.52752	mg/L	0.002065	0.52752	mg/L	0.002065	0.39%
QC value within limits for Ag 328.068 Recovery = 105.50%								
Al 396.153†	3111240.9	55.930	mg/L	0.7896	55.930	mg/L	0.7896	1.41%
As 188.979†	335.4	0.54521	mg/L	0.004420	0.54521	mg/L	0.004420	0.81%
QC value within limits for As 188.979 Recovery = 109.04%								
As 193.696†	346.9	0.47426	mg/L	0.011332	0.47426	mg/L	0.011332	2.39%
B 249.772†	34157.1	0.71487	mg/L	0.009748	0.71487	mg/L	0.009748	1.36%
QC value greater than the upper limit for B 249.772 Recovery = 142.97%								
B 249.677†	16139.8	0.487	mg/L	0.0053	0.487	mg/L	0.0053	1.08%
Ba 233.527†	27695.1	0.51915	mg/L	0.003039	0.51915	mg/L	0.003039	0.59%
QC value within limits for Ba 233.527 Recovery = 103.83%								
Be 313.107†	1911099.4	0.54335	mg/L	0.001333	0.54335	mg/L	0.001333	0.25%
QC value within limits for Be 313.107 Recovery = 108.67%								
Ca 317.933†	348690.9	54.637	mg/L	0.0478	54.637	mg/L	0.0478	0.09%
Cd 228.802†	6443.3	0.54509	mg/L	0.004972	0.54509	mg/L	0.004972	0.91%
QC value within limits for Cd 228.802 Recovery = 109.02%								
Cd 226.502†	20415.7	0.53065	mg/L	0.002582	0.53065	mg/L	0.002582	0.49%
Co 228.616†	6814.8	0.49027	mg/L	0.002694	0.49027	mg/L	0.002694	0.55%
QC value within limits for Co 228.616 Recovery = 98.05%								
Cr 267.716†	14406.5	0.51294	mg/L	0.002130	0.51294	mg/L	0.002130	0.42%
Cr 205.560†	13000.0	0.50939	mg/L	0.003607	0.50939	mg/L	0.003607	0.71%
QC value within limits for Cr 205.560 Recovery = 101.88%								
Cu 324.752†	63828.1	0.50446	mg/L	0.002410	0.50446	mg/L	0.002410	0.48%
QC value within limits for Cu 324.752 Recovery = 100.89%								
Fe 238.204†	83701.4	21.137	mg/L	0.0248	21.137	mg/L	0.0248	0.12%
K 766.490†	-46.5	-0.01683	mg/L	0.044143	-0.01683	mg/L	0.044143	262.24%
Mg 285.213†	451893.0	53.683	mg/L	0.1025	53.683	mg/L	0.1025	0.19%
Mn 257.610†	151043.8	0.51244	mg/L	0.002936	0.51244	mg/L	0.002936	0.57%
QC value within limits for Mn 257.610 Recovery = 102.49%								
Mo 202.031†	3838.8	0.50595	mg/L	0.003543	0.50595	mg/L	0.003543	0.70%
QC value within limits for Mo 202.031 Recovery = 101.19%								
Na 589.592†	228.2	0.02955	mg/L	0.003289	0.02955	mg/L	0.003289	11.13%
Ni 231.604†	10795.2	0.49282	mg/L	0.001919	0.49282	mg/L	0.001919	0.39%
QC value within limits for Ni 231.604 Recovery = 98.56%								
Pb 220.353†	2262.0	0.50665	mg/L	0.005044	0.50665	mg/L	0.005044	1.00%
QC value within limits for Pb 220.353 Recovery = 101.33%								
Pb 217.000†	569.9	0.55285	mg/L	0.006647	0.55285	mg/L	0.006647	1.20%
Sb 206.836†	444.4	0.49518	mg/L	0.004830	0.49518	mg/L	0.004830	0.98%
QC value within limits for Sb 206.836 Recovery = 99.04%								
Se 203.985†	349.1	0.53587	mg/L	0.009474	0.53587	mg/L	0.009474	1.77%
Se 196.026†	379.1	0.55738	mg/L	0.010859	0.55738	mg/L	0.010859	1.95%
QC value within limits for Se 196.026 Recovery = 111.48%								
Si 212.412†	9216.3	2.711	mg/L	0.0204	2.711	mg/L	0.0204	0.75%
QC value within limits for Si 212.412 Recovery = 108.46%								
Sn 189.927†	1179.2	0.52309	mg/L	0.004787	0.52309	mg/L	0.004787	0.92%
QC value within limits for Sn 189.927 Recovery = 104.62%								
Ti 334.940†	265805.2	0.52179	mg/L	0.001079	0.52179	mg/L	0.001079	0.21%
QC value within limits for Ti 334.940 Recovery = 104.36%								
Tl 190.801†	479.2	0.51576	mg/L	0.001314	0.51576	mg/L	0.001314	0.25%
QC value within limits for Tl 190.801 Recovery = 103.15%								
U 385.958†	13019.2	0.81931	mg/L	0.001495	0.81931	mg/L	0.001495	0.18%
V 292.402†	50909.2	0.52563	mg/L	0.001844	0.52563	mg/L	0.001844	0.35%

QC value within limits for V 292.402 Recovery = 105.13%

Zn 206.200†	11469.7	0.53120 mg/L	0.003389	0.53120 mg/L	0.003389	0.64%

QC value within limits for Zn 206.200 Recovery = 106.24%

Sr 421.552†	1198627.4	0.12809 mg/L	0.000359	0.12809 mg/L	0.000359	0.28%

QC value within limits for Sr 421.552 Recovery = 102.47%

Sr 421.552 R†	53115.7	0.130 mg/L	0.0002	0.130 mg/L	0.0002	0.16%
U 424.167†	2687.9	0.48381 mg/L	0.015533	0.48381 mg/L	0.015533	3.21%

QC value within limits for U 424.167 Recovery = 96.76%

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 7/7/2014 12:18:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30841.4	96.424	%	0.3149				0.33%
Y 371.029	560909.8	94.159	%	0.7618				0.81%
Ag 328.068†	4.7	0.00005	mg/L	0.000260	0.00005	mg/L	0.000260	523.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	3170763.2	57.000	mg/L	0.6869	57.000	mg/L	0.6869	1.21%
As 188.979†	-0.1	-0.00017	mg/L	0.008977	-0.00017	mg/L	0.008977	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-59.6	-0.08153	mg/L	0.005806	-0.08153	mg/L	0.005806	7.12%
B 249.772†	7728.7	0.16175	mg/L	0.004742	0.16175	mg/L	0.004742	2.93%
QC value greater than the upper limit for B 249.772 Recovery = Not calculated								
B 249.677†	-2111.6	-0.064	mg/L	0.0010	-0.064	mg/L	0.0010	1.62%
Ba 233.527†	46.0	0.00086	mg/L	0.000257	0.00086	mg/L	0.000257	29.76%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	788.9	0.00022	mg/L	0.000022	0.00022	mg/L	0.000022	9.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	357097.5	55.954	mg/L	0.0923	55.954	mg/L	0.0923	0.16%
Cd 228.802†	-10.1	-0.00086	mg/L	0.000381	-0.00086	mg/L	0.000381	44.49%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-21.1	-0.00055	mg/L	0.000170	-0.00055	mg/L	0.000170	30.94%
Co 228.616†	-6.6	-0.00047	mg/L	0.000785	-0.00047	mg/L	0.000785	166.47%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	16.6	0.00059	mg/L	0.000362	0.00059	mg/L	0.000362	61.22%
Cr 205.560†	-83.8	-0.00329	mg/L	0.000543	-0.00329	mg/L	0.000543	16.53%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-758.8	-0.00600	mg/L	0.000405	-0.00600	mg/L	0.000405	6.76%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	84001.6	21.213	mg/L	0.0405	21.213	mg/L	0.0405	0.19%
K 766.490†	44.3	0.01600	mg/L	0.032275	0.01600	mg/L	0.032275	201.66%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	468393.9	55.644	mg/L	0.4384	55.644	mg/L	0.4384	0.79%
Mn 257.610†	12.0	0.00004	mg/L	0.000075	0.00004	mg/L	0.000075	184.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	36.4	0.00480	mg/L	0.000853	0.00480	mg/L	0.000853	17.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	212.9	0.02757	mg/L	0.015036	0.02757	mg/L	0.015036	54.54%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-32.0	-0.00146	mg/L	0.000217	-0.00146	mg/L	0.000217	14.88%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-53.2	-0.01192	mg/L	0.001114	-0.01192	mg/L	0.001114	9.35%

QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	17.3	0.01676 mg/L	0.006912	0.01676 mg/L	0.006912	41.25%
Sb 206.836†	-0.3	-0.00037 mg/L	0.003797	-0.00037 mg/L	0.003797	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 203.985†	-22.6	-0.03473 mg/L	0.019597	-0.03473 mg/L	0.019597	56.42%
Se 196.026†	-24.6	-0.03619 mg/L	0.007320	-0.03619 mg/L	0.007320	20.22%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 212.412†	47.7	0.014 mg/L	0.0076	0.014 mg/L	0.0076	54.03%
QC value within limits for Si 212.412 Recovery = Not calculated						
Sn 189.927†	25.6	0.01135 mg/L	0.002434	0.01135 mg/L	0.002434	21.44%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	46.4	0.00009 mg/L	0.000060	0.00009 mg/L	0.000060	65.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	11.3	0.01215 mg/L	0.000964	0.01215 mg/L	0.000964	7.94%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 385.958†	5616.8	0.35347 mg/L	0.005310	0.35347 mg/L	0.005310	1.50%
V 292.402†	222.9	0.00230 mg/L	0.000167	0.00230 mg/L	0.000167	7.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	75.7	0.00351 mg/L	0.000182	0.00351 mg/L	0.000182	5.19%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Sr 421.552†	3972.8	0.00042 mg/L	0.000010	0.00042 mg/L	0.000010	2.42%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 421.552 R†	111.7	0.000 mg/L	0.0002	0.000 mg/L	0.0002	67.57%
U 424.167†	-216.0	-0.03887 mg/L	0.015380	-0.03887 mg/L	0.015380	39.57%
QC value within limits for U 424.167 Recovery = Not calculated						

QC Failed. Continue with analysis.
User canceled analysis.

* Printer communication error caused PDFactory to Close during run.
JW 7/7/14

Nebulizer Parameters: 1407224-001A

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1407224-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31831.9	99.520	%	0.3845				0.39%
Y 371.029	573238.7	96.229	%	0.5181				0.54%
Ag 328.068†	2.0	0.00002	mg/L	0.000140	0.00002	mg/L	0.000140	671.28%
Al 396.153†	192.8	0.00347	mg/L	0.000599	0.00347	mg/L	0.000599	17.28%
As 188.979†	-2.8	-0.00453	mg/L	0.004376	-0.00453	mg/L	0.004376	96.57%
As 193.696†	2.8	0.00378	mg/L	0.006573	0.00378	mg/L	0.006573	173.79%
B 249.772†	3013.9	0.06308	mg/L	0.005486	0.06308	mg/L	0.005486	8.70%
B 249.677†	2010.1	0.061	mg/L	0.0014	0.061	mg/L	0.0014	2.27%
Ba 233.527†	168.3	0.00316	mg/L	0.000340	0.00316	mg/L	0.000340	10.78%
Be 313.107†	114.8	0.00003	mg/L	0.000010	0.00003	mg/L	0.000010	29.87%
Ca 317.933†	63242.6	9.9096	mg/L	0.00561	9.9096	mg/L	0.00561	0.06%
Cd 228.802†	-2.9	-0.00024	mg/L	0.000238	-0.00024	mg/L	0.000238	98.05%
Cd 226.502†	3.8	0.00010	mg/L	0.000120	0.00010	mg/L	0.000120	123.32%
Co 228.616†	-19.2	-0.00138	mg/L	0.001107	-0.00138	mg/L	0.001107	80.08%
Cr 267.716†	17.6	0.00063	mg/L	0.000013	0.00063	mg/L	0.000013	2.06%
Cr 205.560†	-8.0	-0.00031	mg/L	0.000507	-0.00031	mg/L	0.000507	162.66%
Cu 324.752†	281.8	0.00223	mg/L	0.000189	0.00223	mg/L	0.000189	8.50%
Fe 238.204†	274.6	0.06934	mg/L	0.001177	0.06934	mg/L	0.001177	1.70%
K 766.490†	265.6	0.09606	mg/L	0.013204	0.09606	mg/L	0.013204	13.74%
Mg 285.213†	24608.3	2.9234	mg/L	0.00574	2.9234	mg/L	0.00574	0.20%
Mn 257.610†	4582.0	0.01554	mg/L	0.000107	0.01554	mg/L	0.000107	0.69%
Mo 202.031†	2.0	0.00026	mg/L	0.000270	0.00026	mg/L	0.000270	104.78%
Na 589.592†	12832.7	1.6617	mg/L	0.00961	1.6617	mg/L	0.00961	0.58%
Ni 231.604†	11.4	0.00052	mg/L	0.000881	0.00052	mg/L	0.000881	169.18%
Pb 220.353†	-1.0	-0.00023	mg/L	0.001883	-0.00023	mg/L	0.001883	810.85%
Pb 217.000†	-0.9	-0.00085	mg/L	0.003984	-0.00085	mg/L	0.003984	471.42%
Sb 206.836†	5.2	0.00584	mg/L	0.001858	0.00584	mg/L	0.001858	31.79%
Se 203.985†	1167.1	1.7914	mg/L	0.02040	1.7914	mg/L	0.02040	1.14%
Se 196.026†	1348.1	1.9820	mg/L	0.01812	1.9820	mg/L	0.01812	0.91%
Si 212.412†	1944.6	0.572	mg/L	0.0053	0.572	mg/L	0.0053	0.93%
Sn 189.927†	-1.6	-0.00070	mg/L	0.002410	-0.00070	mg/L	0.002410	346.02%
Ti 334.940†	27.8	0.00005	mg/L	0.000043	0.00005	mg/L	0.000043	78.38%
Tl 190.801†	1.1	0.00115	mg/L	0.002936	0.00115	mg/L	0.002936	255.88%
U 385.958†	180.6	0.01137	mg/L	0.002833	0.01137	mg/L	0.002833	24.92%
V 292.402†	46.1	0.00048	mg/L	0.000056	0.00048	mg/L	0.000056	11.81%
Zn 206.200†	54.6	0.00253	mg/L	0.000246	0.00253	mg/L	0.000246	9.74%
Sr 421.552†	1150172.2	0.12291	mg/L	0.000100	0.12291	mg/L	0.000100	0.08%
Sr 421.552 R†	50043.9	0.123	mg/L	0.0005	0.123	mg/L	0.0005	0.39%
U 424.167†	-17.3	-0.00312	mg/L	0.003075	-0.00312	mg/L	0.003075	98.58%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 12:41:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31373.9	98.089	%	1.3666				1.39%
Y 371.029	568781.6	95.481	%	0.4025				0.42%
Ag 328.068†	48649.2	0.50898	mg/L	0.002347	0.50898	mg/L	0.002347	0.46%

QC value within limits for Ag 328.068 Recovery = 101.80%

Al 396.153†	27556.3	0.49537 mg/L	0.000868	0.49537 mg/L	0.000868	0.18%
QC value within limits for Al 396.153 Recovery = 99.07%						
As 188.979†	312.7	0.50840 mg/L	0.010288	0.50840 mg/L	0.010288	2.02%
QC value within limits for As 188.979 Recovery = 101.68%						
As 193.696†	371.9	0.50845 mg/L	0.000725	0.50845 mg/L	0.000725	0.14%
B 249.772†	24886.7	0.52085 mg/L	0.011305	0.52085 mg/L	0.011305	2.17%
QC value within limits for B 249.772 Recovery = 104.17%						
B 249.677†	16790.1	0.507 mg/L	0.0014	0.507 mg/L	0.0014	0.27%
Ba 233.527†	27624.9	0.51783 mg/L	0.000865	0.51783 mg/L	0.000865	0.17%
QC value within limits for Ba 233.527 Recovery = 103.57%						
Be 313.107†	1804464.5	0.51303 mg/L	0.000625	0.51303 mg/L	0.000625	0.12%
QC value within limits for Be 313.107 Recovery = 102.61%						
Ca 317.933†	18.8	0.00295 mg/L	0.003750	0.00295 mg/L	0.003750	127.08%
Cd 228.802†	6139.7	0.51941 mg/L	0.006541	0.51941 mg/L	0.006541	1.26%
QC value within limits for Cd 228.802 Recovery = 103.88%						
Cd 226.502†	19965.4	0.51894 mg/L	0.002094	0.51894 mg/L	0.002094	0.40%
Co 228.616†	7012.7	0.50452 mg/L	0.003359	0.50452 mg/L	0.003359	0.67%
QC value within limits for Co 228.616 Recovery = 100.90%						
Cr 267.716†	14496.0	0.51613 mg/L	0.001855	0.51613 mg/L	0.001855	0.36%
Cr 205.560†	13109.7	0.51370 mg/L	0.005359	0.51370 mg/L	0.005359	1.04%
QC value within limits for Cr 205.560 Recovery = 102.74%						
Cu 324.752†	65508.6	0.51774 mg/L	0.001696	0.51774 mg/L	0.001696	0.33%
QC value within limits for Cu 324.752 Recovery = 103.55%						
Fe 238.204†	2032.7	0.51331 mg/L	0.004334	0.51331 mg/L	0.004334	0.84%
QC value within limits for Fe 238.204 Recovery = 102.66%						
K 766.490†	180.4	0.06524 mg/L	0.020171	0.06524 mg/L	0.020171	30.92%
Mg 285.213†	-10.9	-0.00130 mg/L	0.002118	-0.00130 mg/L	0.002118	163.44%
Mn 257.610†	154715.3	0.52489 mg/L	0.001571	0.52489 mg/L	0.001571	0.30%
QC value within limits for Mn 257.610 Recovery = 104.98%						
Mo 202.031†	3856.3	0.50826 mg/L	0.007347	0.50826 mg/L	0.007347	1.45%
QC value within limits for Mo 202.031 Recovery = 101.65%						
Na 589.592†	236.6	0.03064 mg/L	0.015770	0.03064 mg/L	0.015770	51.47%
Ni 231.604†	11321.3	0.51684 mg/L	0.001191	0.51684 mg/L	0.001191	0.23%
QC value within limits for Ni 231.604 Recovery = 103.37%						
Pb 220.353†	2306.8	0.51670 mg/L	0.007569	0.51670 mg/L	0.007569	1.46%
QC value within limits for Pb 220.353 Recovery = 103.34%						
Pb 217.000†	516.5	0.50104 mg/L	0.010159	0.50104 mg/L	0.010159	2.03%
Sb 206.836†	444.9	0.49580 mg/L	0.007418	0.49580 mg/L	0.007418	1.50%
QC value within limits for Sb 206.836 Recovery = 99.16%						
Se 203.985†	338.5	0.51952 mg/L	0.001266	0.51952 mg/L	0.001266	0.24%
Se 196.026†	345.1	0.50739 mg/L	0.012764	0.50739 mg/L	0.012764	2.52%
QC value within limits for Se 196.026 Recovery = 101.48%						
Si 212.412†	8621.1	2.536 mg/L	0.0330	2.536 mg/L	0.0330	1.30%
QC value within limits for Si 212.412 Recovery = 101.45%						
Sn 189.927†	1159.2	0.51418 mg/L	0.004125	0.51418 mg/L	0.004125	0.80%
QC value within limits for Sn 189.927 Recovery = 102.84%						
Ti 334.940†	262633.0	0.51556 mg/L	0.001448	0.51556 mg/L	0.001448	0.28%
QC value within limits for Ti 334.940 Recovery = 103.11%						
Tl 190.801†	475.7	0.51196 mg/L	0.006825	0.51196 mg/L	0.006825	1.33%
QC value within limits for Tl 190.801 Recovery = 102.39%						
U 385.958†	8339.6	0.52482 mg/L	0.000926	0.52482 mg/L	0.000926	0.18%
V 292.402†	49898.3	0.51520 mg/L	0.000344	0.51520 mg/L	0.000344	0.07%
QC value within limits for V 292.402 Recovery = 103.04%						
Zn 206.200†	11227.9	0.52001 mg/L	0.000338	0.52001 mg/L	0.000338	0.07%
QC value within limits for Zn 206.200 Recovery = 104.00%						
Sr 421.552†	1196964.7	0.12791 mg/L	0.000098	0.12791 mg/L	0.000098	0.08%
QC value within limits for Sr 421.552 Recovery = 102.33%						
Sr 421.552 R†	51709.0	0.127 mg/L	0.0002	0.127 mg/L	0.0002	0.19%
U 424.167†	2752.9	0.49550 mg/L	0.009839	0.49550 mg/L	0.009839	1.99%
QC value within limits for U 424.167 Recovery = 99.10%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 12:43:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31690.7	99.079	%	0.8385				0.85%
Y 371.029	577318.1	96.914	%	0.7311				0.75%
Ag 328.068†	20.6	0.00022	mg/L	0.000359	0.00022	mg/L	0.000359	166.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-34.5	-0.00062	mg/L	0.000317	-0.00062	mg/L	0.000317	51.08%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.5	0.00243	mg/L	0.004824	0.00243	mg/L	0.004824	198.29%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-3.4	-0.00464	mg/L	0.005146	-0.00464	mg/L	0.005146	110.82%
B 249.772†	-688.6	-0.01441	mg/L	0.006700	-0.01441	mg/L	0.006700	46.49%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	2.5	0.000	mg/L	0.0012	0.000	mg/L	0.0012	>999.9%
Ba 233.527†	1.4	0.00003	mg/L	0.000146	0.00003	mg/L	0.000146	559.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	377.6	0.00011	mg/L	0.000009	0.00011	mg/L	0.000009	8.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-16.2	-0.00254	mg/L	0.003833	-0.00254	mg/L	0.003833	150.73%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-5.5	-0.00046	mg/L	0.000132	-0.00046	mg/L	0.000132	28.34%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.8	0.00007	mg/L	0.000138	0.00007	mg/L	0.000138	188.73%
Co 228.616†	-10.5	-0.00076	mg/L	0.000313	-0.00076	mg/L	0.000313	41.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.5	0.00005	mg/L	0.000240	0.00005	mg/L	0.000240	444.28%
Cr 205.560†	11.5	0.00045	mg/L	0.000748	0.00045	mg/L	0.000748	166.80%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-213.8	-0.00169	mg/L	0.000171	-0.00169	mg/L	0.000171	10.12%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	5.5	0.00140	mg/L	0.001680	0.00140	mg/L	0.001680	119.85%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	33.4	0.01208	mg/L	0.029250	0.01208	mg/L	0.029250	242.22%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	15.6	0.00185	mg/L	0.000593	0.00185	mg/L	0.000593	32.06%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-21.3	-0.00007	mg/L	0.000084	-0.00007	mg/L	0.000084	116.70%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.1	0.00080	mg/L	0.000274	0.00080	mg/L	0.000274	34.08%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	200.6	0.02597	mg/L	0.025184	0.02597	mg/L	0.025184	96.96%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-4.4	-0.00020	mg/L	0.000146	-0.00020	mg/L	0.000146	72.91%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.9	-0.00064	mg/L	0.002271	-0.00064	mg/L	0.002271	355.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.4	-0.00040	mg/L	0.007764	-0.00040	mg/L	0.007764	>999.9%
Sb 206.836†	5.2	0.00581	mg/L	0.006615	0.00581	mg/L	0.006615	113.91%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	7.5	0.01155	mg/L	0.006834	0.01155	mg/L	0.006834	59.18%
Se 196.026†	-10.0	-0.01476	mg/L	0.005137	-0.01476	mg/L	0.005137	34.81%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 212.412†	2.8	0.001	mg/L	0.0042	0.001	mg/L	0.0042	507.33%
QC value within limits for Si 212.412 Recovery = Not calculated								
Sn 189.927†	-1.1	-0.00050	mg/L	0.001091	-0.00050	mg/L	0.001091	219.27%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	159.0	0.00031	mg/L	0.000366	0.00031	mg/L	0.000366	117.07%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.1	0.00337	mg/L	0.001580	0.00337	mg/L	0.001580	46.95%
QC value within limits for Tl 190.801 Recovery = Not calculated								
U 385.958†	60.7	0.00382	mg/L	0.002553	0.00382	mg/L	0.002553	66.85%
V 292.402†	72.2	0.00075	mg/L	0.000068	0.00075	mg/L	0.000068	9.16%
QC value within limits for V 292.402 Recovery = Not calculated								

Zn 206.200†	1.2	0.00006 mg/L	0.000155	0.00006 mg/L	0.000155	281.37%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Sr 421.552†	203.7	0.00002 mg/L	0.000005	0.00002 mg/L	0.000005	22.21%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 421.552 R†	-4.9	-0.000 mg/L	0.0001	-0.000 mg/L	0.0001	565.24%
U 424.167†	-29.9	-0.00539 mg/L	0.007130	-0.00539 mg/L	0.007130	132.31%
QC value within limits for U 424.167 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 28 **Autosampler Location: 3**
Sample ID: CCV CAT **Date Collected: 7/7/2014 12:44:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30655.4	95.842	%	0.4796				0.50%
Y 371.029	562778.5	94.473	%	0.4005				0.42%
Ag 328.068†	231.5	0.00242	mg/L	0.000280	0.00242	mg/L	0.000280	11.56%
Al 396.153†	41.0	0.00074	mg/L	0.000264	0.00074	mg/L	0.000264	35.88%
As 188.979†	0.7	0.00120	mg/L	0.001992	0.00120	mg/L	0.001992	166.49%
As 193.696†	-5.5	-0.00748	mg/L	0.006684	-0.00748	mg/L	0.006684	89.35%
B 249.772†	-2151.4	-0.04503	mg/L	0.008023	-0.04503	mg/L	0.008023	17.82%
B 249.677†	49.1	0.001	mg/L	0.0008	0.001	mg/L	0.0008	51.52%
Ba 233.527†	16.8	0.00031	mg/L	0.000142	0.00031	mg/L	0.000142	45.24%
Be 313.107†	759.2	0.00022	mg/L	0.000029	0.00022	mg/L	0.000029	13.34%
Ca 317.933†	346261.4	54.256	mg/L	0.2322	54.256	mg/L	0.2322	0.43%
QC value within limits for Ca 317.933 Recovery = 108.51%								
Cd 228.802†	-13.1	-0.00111	mg/L	0.000115	-0.00111	mg/L	0.000115	10.35%
Cd 226.502†	12.1	0.00031	mg/L	0.000173	0.00031	mg/L	0.000173	54.94%
Co 228.616†	-0.8	-0.00006	mg/L	0.000310	-0.00006	mg/L	0.000310	533.66%
Cr 267.716†	27.0	0.00096	mg/L	0.000361	0.00096	mg/L	0.000361	37.58%
Cr 205.560†	-9.4	-0.00037	mg/L	0.000505	-0.00037	mg/L	0.000505	137.25%
Cu 324.752†	-439.0	-0.00347	mg/L	0.000125	-0.00347	mg/L	0.000125	3.60%
Fe 238.204†	22.6	0.00570	mg/L	0.002596	0.00570	mg/L	0.002596	45.54%
K 766.490†	145227.7	52.522	mg/L	0.1190	52.522	mg/L	0.1190	0.23%
QC value within limits for K 766.490 Recovery = 105.04%								
Mg 285.213†	457337.1	54.330	mg/L	0.1624	54.330	mg/L	0.1624	0.30%
QC value within limits for Mg 285.213 Recovery = 108.66%								
Mn 257.610†	46.1	0.00016	mg/L	0.000048	0.00016	mg/L	0.000048	30.65%
Mo 202.031†	8.4	0.00111	mg/L	0.000349	0.00111	mg/L	0.000349	31.51%
Na 589.592†	414237.0	53.641	mg/L	0.1288	53.641	mg/L	0.1288	0.24%
QC value within limits for Na 589.592 Recovery = 107.28%								
Ni 231.604†	-23.0	-0.00105	mg/L	0.000515	-0.00105	mg/L	0.000515	49.04%
Pb 220.353†	-4.6	-0.00103	mg/L	0.000841	-0.00103	mg/L	0.000841	81.88%
Pb 217.000†	-2.7	-0.00261	mg/L	0.006301	-0.00261	mg/L	0.006301	241.47%
Sb 206.836†	-10.5	-0.01175	mg/L	0.005194	-0.01175	mg/L	0.005194	44.20%
Se 203.985†	-27.6	-0.04239	mg/L	0.019581	-0.04239	mg/L	0.019581	46.19%
Se 196.026†	-32.5	-0.04779	mg/L	0.014490	-0.04779	mg/L	0.014490	30.32%
Si 212.412†	23.1	0.007	mg/L	0.0040	0.007	mg/L	0.0040	58.35%
Sn 189.927†	14.8	0.00658	mg/L	0.001306	0.00658	mg/L	0.001306	19.86%
Ti 334.940†	-111.3	-0.00022	mg/L	0.000045	-0.00022	mg/L	0.000045	20.82%
Tl 190.801†	11.3	0.01218	mg/L	0.004141	0.01218	mg/L	0.004141	34.00%
U 385.958†	92.3	0.00581	mg/L	0.003334	0.00581	mg/L	0.003334	57.40%
V 292.402†	223.5	0.00231	mg/L	0.000165	0.00231	mg/L	0.000165	7.16%
Zn 206.200†	48.5	0.00225	mg/L	0.000222	0.00225	mg/L	0.000222	9.88%
Sr 421.552†	6884.2	0.00074	mg/L	0.000003	0.00074	mg/L	0.000003	0.34%
Sr 421.552 R†	258.9	0.001	mg/L	0.0001	0.001	mg/L	0.0001	10.14%
U 424.167†	-276.7	-0.04980	mg/L	0.002217	-0.04980	mg/L	0.002217	4.45%

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: MB-14064
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 112
Date Collected: 7/7/2014 12:59:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14064

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: MB-14064

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	557829.3	93.642	%	0.4702				0.50%
Ag 328.068†	4.1	0.00004	mg/L	0.000116	0.00004	mg/L	0.000116	272.07%
As 188.979†	-1.7	-0.00276	mg/L	0.005707	-0.00276	mg/L	0.005707	206.99%
As 193.696†	-2.5	-0.00337	mg/L	0.009770	-0.00337	mg/L	0.009770	289.75%
Ba 233.527†	17.5	0.00033	mg/L	0.000313	0.00033	mg/L	0.000313	95.68%
Cd 228.802†	-1.3	-0.00011	mg/L	0.000101	-0.00011	mg/L	0.000101	94.32%
Cd 226.502†	-6.4	-0.00017	mg/L	0.000167	-0.00017	mg/L	0.000167	99.91%
Cr 267.716†	11.4	0.00040	mg/L	0.000345	0.00040	mg/L	0.000345	85.25%
Cr 205.560†	-18.2	-0.00071	mg/L	0.000319	-0.00071	mg/L	0.000319	44.71%
Cu 324.752†	17.2	0.00014	mg/L	0.000167	0.00014	mg/L	0.000167	123.19%
Mo 202.031†	7.9	0.00104	mg/L	0.000162	0.00104	mg/L	0.000162	15.57%
Ni 231.604†	25.6	0.00117	mg/L	0.000225	0.00117	mg/L	0.000225	19.22%
Pb 220.353†	6.4	0.00143	mg/L	0.000313	0.00143	mg/L	0.000313	21.92%
Pb 217.000†	4.4	0.00423	mg/L	0.012562	0.00423	mg/L	0.012562	296.63%
Se 203.985†	5.8	0.00892	mg/L	0.002585	0.00892	mg/L	0.002585	28.99%
Se 196.026†	-0.6	-0.00090	mg/L	0.009675	-0.00090	mg/L	0.009675	>999.9%
Zn 206.200†	79.8	0.00370	mg/L	0.000268	0.00370	mg/L	0.000268	7.26%

Sequence No.: 38
Sample ID: LCS-14064
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 113
Date Collected: 7/7/2014 1:00:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14064

Analyte	Back Pressure	Flow
All	242.0 kPa	0.55 L/min

Mean Data: LCS-14064

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	542263.3	91.029	%	0.7081				0.78%
Ag 328.068†	9844.3	0.10299	mg/L	0.000239	0.10299	mg/L	0.000239	0.23%
As 188.979†	308.9	0.50214	mg/L	0.006195	0.50214	mg/L	0.006195	1.23%
As 193.696†	371.5	0.50790	mg/L	0.014553	0.50790	mg/L	0.014553	2.87%
Ba 233.527†	26976.4	0.50567	mg/L	0.001024	0.50567	mg/L	0.001024	0.20%
Cd 228.802†	5939.0	0.50243	mg/L	0.003681	0.50243	mg/L	0.003681	0.73%
Cd 226.502†	19190.2	0.49879	mg/L	0.001329	0.49879	mg/L	0.001329	0.27%
Cr 267.716†	14330.9	0.51025	mg/L	0.002326	0.51025	mg/L	0.002326	0.46%
Cr 205.560†	12951.8	0.50751	mg/L	0.002793	0.50751	mg/L	0.002793	0.55%
Cu 324.752†	66325.6	0.52420	mg/L	0.000932	0.52420	mg/L	0.000932	0.18%
Mo 202.031†	4002.2	0.52748	mg/L	0.003513	0.52748	mg/L	0.003513	0.67%
Ni 231.604†	10732.9	0.48997	mg/L	0.000944	0.48997	mg/L	0.000944	0.19%
Pb 220.353†	2214.8	0.49608	mg/L	0.007074	0.49608	mg/L	0.007074	1.43%
Pb 217.000†	518.4	0.50292	mg/L	0.014917	0.50292	mg/L	0.014917	2.97%
Se 203.985†	298.5	0.45817	mg/L	0.008578	0.45817	mg/L	0.008578	1.87%
Se 196.026†	327.3	0.48127	mg/L	0.013327	0.48127	mg/L	0.013327	2.77%
Zn 206.200†	10679.5	0.49461	mg/L	0.003146	0.49461	mg/L	0.003146	0.64%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 1:01:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	584830.3	98.175	%	0.8828				0.90%
Ag 328.068†	48267.2	0.50498	mg/L	0.000564	0.50498	mg/L	0.000564	0.11%
QC value within limits for Ag 328.068 Recovery = 101.00%								
As 188.979†	315.7	0.51319	mg/L	0.007545	0.51319	mg/L	0.007545	1.47%
QC value within limits for As 188.979 Recovery = 102.64%								
As 193.696†	378.4	0.51734	mg/L	0.017139	0.51734	mg/L	0.017139	3.31%
Ba 233.527†	27672.6	0.51873	mg/L	0.002574	0.51873	mg/L	0.002574	0.50%
QC value within limits for Ba 233.527 Recovery = 103.75%								
Cd 228.802†	6138.0	0.51926	mg/L	0.002987	0.51926	mg/L	0.002987	0.58%
QC value within limits for Cd 228.802 Recovery = 103.85%								
Cd 226.502†	20042.8	0.52095	mg/L	0.001769	0.52095	mg/L	0.001769	0.34%
Cr 267.716†	14457.3	0.51475	mg/L	0.001292	0.51475	mg/L	0.001292	0.25%
Cr 205.560†	13104.5	0.51349	mg/L	0.003423	0.51349	mg/L	0.003423	0.67%
QC value within limits for Cr 205.560 Recovery = 102.70%								
Cu 324.752†	65113.4	0.51462	mg/L	0.000627	0.51462	mg/L	0.000627	0.12%
QC value within limits for Cu 324.752 Recovery = 102.92%								
Mo 202.031†	3876.1	0.51086	mg/L	0.003286	0.51086	mg/L	0.003286	0.64%
QC value within limits for Mo 202.031 Recovery = 102.17%								
Ni 231.604†	11320.1	0.51678	mg/L	0.000931	0.51678	mg/L	0.000931	0.18%
QC value within limits for Ni 231.604 Recovery = 103.36%								
Pb 220.353†	2324.2	0.52059	mg/L	0.004175	0.52059	mg/L	0.004175	0.80%
QC value within limits for Pb 220.353 Recovery = 104.12%								
Pb 217.000†	523.1	0.50743	mg/L	0.003313	0.50743	mg/L	0.003313	0.65%
Se 203.985†	334.9	0.51395	mg/L	0.012401	0.51395	mg/L	0.012401	2.41%
Se 196.026†	353.2	0.51926	mg/L	0.010354	0.51926	mg/L	0.010354	1.99%
QC value within limits for Se 196.026 Recovery = 103.85%								
Zn 206.200†	11248.2	0.52094	mg/L	0.001436	0.52094	mg/L	0.001436	0.28%
QC value within limits for Zn 206.200 Recovery = 104.19%								

All analyte(s) passed QC.

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Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 1:03:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	596982.0	100.21	%	0.661				0.66%
Ag 328.068†	-12.4	-0.00013	mg/L	0.000288	-0.00013	mg/L	0.000288	222.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.0	-0.00006	mg/L	0.005530	-0.00006	mg/L	0.005530	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.6	-0.00354	mg/L	0.004215	-0.00354	mg/L	0.004215	119.05%
Ba 233.527†	-13.0	-0.00024	mg/L	0.000287	-0.00024	mg/L	0.000287	117.42%

QC value within limits for Ba 233.527 Recovery = Not calculated							
Cd 228.802†	-2.6	-0.00022	mg/L	0.000351	-0.00022	mg/L	0.000351 159.77%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 226.502†	0.7	0.00002	mg/L	0.000048	0.00002	mg/L	0.000048 277.06%
Cr 267.716†	7.1	0.00025	mg/L	0.000041	0.00025	mg/L	0.000041 16.38%
Cr 205.560†	7.0	0.00028	mg/L	0.000441	0.00028	mg/L	0.000441 160.13%
QC value within limits for Cr 205.560 Recovery = Not calculated							
Cu 324.752†	-95.5	-0.00075	mg/L	0.000265	-0.00075	mg/L	0.000265 35.13%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Mo 202.031†	2.6	0.00035	mg/L	0.000392	0.00035	mg/L	0.000392 113.60%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni 231.604†	0.9	0.00004	mg/L	0.000242	0.00004	mg/L	0.000242 598.79%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	6.6	0.00147	mg/L	0.000626	0.00147	mg/L	0.000626 42.55%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	0.0	0.00003	mg/L	0.001318	0.00003	mg/L	0.001318 >999.9%
Se 203.985†	11.5	0.01772	mg/L	0.007376	0.01772	mg/L	0.007376 41.62%
Se 196.026†	-7.0	-0.01036	mg/L	0.002230	-0.01036	mg/L	0.002230 21.54%
QC value within limits for Se 196.026 Recovery = Not calculated							
Zn 206.200†	0.3	0.00001	mg/L	0.000294	0.00001	mg/L	0.000294 >999.9%
QC value within limits for Zn 206.200 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 1:04:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

NO CAT Jmf 7/7/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	593175.6	99.576	%	0.3678				0.37%
Ag 328.068†	-11.1	-0.00012	mg/L	0.000342	-0.00012	mg/L	0.000342	293.59%
As 188.979†	0.5	0.00088	mg/L	0.001996	0.00088	mg/L	0.001996	227.67%
As 193.696†	-2.9	-0.00401	mg/L	0.007101	-0.00401	mg/L	0.007101	177.05%
Ba 233.527†	-5.5	-0.00010	mg/L	0.000046	-0.00010	mg/L	0.000046	44.41%
Cd 228.802†	-4.4	-0.00037	mg/L	0.000372	-0.00037	mg/L	0.000372	100.03%
Cd 226.502†	2.1	0.00005	mg/L	0.000194	0.00005	mg/L	0.000194	358.62%
Cr 267.716†	-0.7	-0.00003	mg/L	0.000254	-0.00003	mg/L	0.000254	956.90%
Cr 205.560†	14.0	0.00055	mg/L	0.000448	0.00055	mg/L	0.000448	81.82%
Cu 324.752†	-124.0	-0.00098	mg/L	0.000258	-0.00098	mg/L	0.000258	26.34%
Mo 202.031†	-1.7	-0.00022	mg/L	0.000207	-0.00022	mg/L	0.000207	95.25%
Ni 231.604†	-0.1	-0.00000	mg/L	0.000305	-0.00000	mg/L	0.000305	>999.9%
Pb 220.353†	-5.3	-0.00119	mg/L	0.000997	-0.00119	mg/L	0.000997	83.82%
Pb 217.000†	-1.9	-0.00185	mg/L	0.008149	-0.00185	mg/L	0.008149	441.42%
Se 203.985†	1.0	0.00151	mg/L	0.012010	0.00151	mg/L	0.012010	793.34%
Se 196.026†	-9.5	-0.01398	mg/L	0.006622	-0.01398	mg/L	0.006622	47.36%
Zn 206.200†	16.7	0.00077	mg/L	0.000125	0.00077	mg/L	0.000125	16.15%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1407076-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 114
Date Collected: 7/7/2014 1:05:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407076-001A

Analyte	Back Pressure	Flow

Cd 226.502†	19130.9	0.49725 mg/L	0.001365	0.49725 mg/L	0.001365	0.27%
Cr 267.716†	13905.2	0.49509 mg/L	0.000898	0.49509 mg/L	0.000898	0.18%
Cr 205.560†	12625.5	0.49472 mg/L	0.004952	0.49472 mg/L	0.004952	1.00%
Cu 324.752†	67979.4	0.53727 mg/L	0.000528	0.53727 mg/L	0.000528	0.10%
Mo 202.031†	3853.9	0.50794 mg/L	0.003202	0.50794 mg/L	0.003202	0.63%
Ni 231.604†	10513.8	0.47997 mg/L	0.001456	0.47997 mg/L	0.001456	0.30%
Pb 220.353†	2491.0	0.55794 mg/L	0.003743	0.55794 mg/L	0.003743	0.67%
Pb 217.000†	601.1	0.58312 mg/L	0.004137	0.58312 mg/L	0.004137	0.71%
Se 203.985†	334.3	0.51302 mg/L	0.010652	0.51302 mg/L	0.010652	2.08%
Se 196.026†	355.2	0.52223 mg/L	0.006724	0.52223 mg/L	0.006724	1.29%
Zn 206.200†	11790.6	0.54607 mg/L	0.002145	0.54607 mg/L	0.002145	0.39%

Sequence No.: 65 **Autosampler Location: 2**
Sample ID: CCV **Date Collected: 7/7/2014 1:34:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	259.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	576373.8	96.755	%	0.3360				0.35%
Ag 328.068†	47956.0	0.50172	mg/L	0.000748	0.50172	mg/L	0.000748	0.15%
QC value within limits for Ag 328.068 Recovery = 100.34%								
As 188.979†	318.3	0.51750	mg/L	0.010765	0.51750	mg/L	0.010765	2.08%
QC value within limits for As 188.979 Recovery = 103.50%								
As 193.696†	379.0	0.51821	mg/L	0.004073	0.51821	mg/L	0.004073	0.79%
Ba 233.527†	27576.3	0.51692	mg/L	0.003081	0.51692	mg/L	0.003081	0.60%
QC value within limits for Ba 233.527 Recovery = 103.38%								
Cd 228.802†	6135.4	0.51905	mg/L	0.003160	0.51905	mg/L	0.003160	0.61%
QC value within limits for Cd 228.802 Recovery = 103.81%								
Cd 226.502†	20038.0	0.52083	mg/L	0.001874	0.52083	mg/L	0.001874	0.36%
Cr 267.716†	14436.4	0.51400	mg/L	0.001383	0.51400	mg/L	0.001383	0.27%
Cr 205.560†	13099.0	0.51327	mg/L	0.003175	0.51327	mg/L	0.003175	0.62%
QC value within limits for Cr 205.560 Recovery = 102.65%								
Cu 324.752†	64382.2	0.50884	mg/L	0.000761	0.50884	mg/L	0.000761	0.15%
QC value within limits for Cu 324.752 Recovery = 101.77%								
Mo 202.031†	3895.2	0.51338	mg/L	0.004492	0.51338	mg/L	0.004492	0.87%
QC value within limits for Mo 202.031 Recovery = 102.68%								
Ni 231.604†	11324.7	0.51699	mg/L	0.002202	0.51699	mg/L	0.002202	0.43%
QC value within limits for Ni 231.604 Recovery = 103.40%								
Pb 220.353†	2321.4	0.51996	mg/L	0.003975	0.51996	mg/L	0.003975	0.76%
QC value within limits for Pb 220.353 Recovery = 103.99%								
Pb 217.000†	518.9	0.50337	mg/L	0.009769	0.50337	mg/L	0.009769	1.94%
Se 203.985†	341.0	0.52344	mg/L	0.020287	0.52344	mg/L	0.020287	3.88%
Se 196.026†	353.1	0.51919	mg/L	0.004202	0.51919	mg/L	0.004202	0.81%
QC value within limits for Se 196.026 Recovery = 103.84%								
Zn 206.200†	11316.2	0.52410	mg/L	0.001837	0.52410	mg/L	0.001837	0.35%
QC value within limits for Zn 206.200 Recovery = 104.82%								

All analyte(s) passed QC.

Sequence No.: 66 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 7/7/2014 1:35:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow

All 259.0 kPa 0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	589148.0	98.899	%	0.9496				0.96%
Ag 328.068†	-13.1	-0.00014	mg/L	0.000601	-0.00014	mg/L	0.000601	437.19%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.3	0.00210	mg/L	0.003400	0.00210	mg/L	0.003400	162.11%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	2.1	0.00291	mg/L	0.003156	0.00291	mg/L	0.003156	108.30%
Ba 233.527†	-21.2	-0.00040	mg/L	0.000262	-0.00040	mg/L	0.000262	65.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-3.1	-0.00027	mg/L	0.000326	-0.00027	mg/L	0.000326	122.44%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	5.1	0.00013	mg/L	0.000016	0.00013	mg/L	0.000016	12.07%
Cr 267.716†	0.7	0.00002	mg/L	0.000349	0.00002	mg/L	0.000349	>999.9%
Cr 205.560†	13.7	0.00054	mg/L	0.000208	0.00054	mg/L	0.000208	38.75%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-219.2	-0.00173	mg/L	0.000255	-0.00173	mg/L	0.000255	14.73%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	10.9	0.00143	mg/L	0.000534	0.00143	mg/L	0.000534	37.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-4.8	-0.00022	mg/L	0.000195	-0.00022	mg/L	0.000195	89.75%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	1.8	0.00040	mg/L	0.000664	0.00040	mg/L	0.000664	164.52%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-7.6	-0.00739	mg/L	0.005139	-0.00739	mg/L	0.005139	69.52%
Se 203.985†	2.4	0.00366	mg/L	0.009732	0.00366	mg/L	0.009732	266.13%
Se 196.026†	-13.0	-0.01910	mg/L	0.008189	-0.01910	mg/L	0.008189	42.88%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	0.4	0.00002	mg/L	0.000395	0.00002	mg/L	0.000395	>999.9%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 67
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 1:37:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	258.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	589185.4	98.906	%	1.0349				1.05%
Ag 328.068†	-3.5	-0.00004	mg/L	0.000135	-0.00004	mg/L	0.000135	371.58%
As 188.979†	-1.9	-0.00304	mg/L	0.003913	-0.00304	mg/L	0.003913	128.91%
As 193.696†	-1.9	-0.00254	mg/L	0.004075	-0.00254	mg/L	0.004075	160.55%
Ba 233.527†	4.6	0.00009	mg/L	0.000142	0.00009	mg/L	0.000142	164.90%
Cd 228.802†	-4.4	-0.00037	mg/L	0.000141	-0.00037	mg/L	0.000141	37.61%
Cd 226.502†	3.5	0.00009	mg/L	0.000104	0.00009	mg/L	0.000104	112.68%
Cr 267.716†	-2.7	-0.00010	mg/L	0.000300	-0.00010	mg/L	0.000300	314.18%
Cr 205.560†	-8.6	-0.00034	mg/L	0.000917	-0.00034	mg/L	0.000917	270.60%
Cu 324.752†	-194.5	-0.00154	mg/L	0.000394	-0.00154	mg/L	0.000394	25.66%
Mo 202.031†	9.3	0.00123	mg/L	0.000356	0.00123	mg/L	0.000356	29.01%
Ni 231.604†	-7.0	-0.00032	mg/L	0.000177	-0.00032	mg/L	0.000177	55.14%
Pb 220.353†	-3.5	-0.00079	mg/L	0.001250	-0.00079	mg/L	0.001250	159.20%
Pb 217.000†	-1.8	-0.00179	mg/L	0.006029	-0.00179	mg/L	0.006029	336.10%
Se 203.985†	4.8	0.00729	mg/L	0.008200	0.00729	mg/L	0.008200	112.46%
Se 196.026†	-9.1	-0.01345	mg/L	0.011196	-0.01345	mg/L	0.011196	83.24%
Zn 206.200†	17.4	0.00081	mg/L	0.000067	0.00081	mg/L	0.000067	8.25%

Analyte	Back Pressure	Flow
All	274.0 kPa	0.55 L/min

Mean Data: 1407076-015A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	504282.7	84.653	%	0.2867				0.34%
Ag 328.068†	574.7	0.00601	mg/L	0.000182	0.00601	mg/L	0.000182	3.03%
As 188.979†	344.0	0.55929	mg/L	0.008084	0.55929	mg/L	0.008084	1.45%
As 193.696†	74.2	0.10138	mg/L	0.006898	0.10138	mg/L	0.006898	6.80%
Ba 233.527†	4221.0	0.07912	mg/L	0.000453	0.07912	mg/L	0.000453	0.57%
Cd 228.802†	76.7	0.00649	mg/L	0.000290	0.00649	mg/L	0.000290	4.47%
Cd 226.502†	80.8	0.00210	mg/L	0.000134	0.00210	mg/L	0.000134	6.40%
Cr 267.716†	-4713.7	-0.16783	mg/L	0.000514	-0.16783	mg/L	0.000514	0.31%
Cr 205.560†	9266.8	0.36311	mg/L	0.002629	0.36311	mg/L	0.002629	0.72%
Cu 324.752†	5143.6	0.04065	mg/L	0.000796	0.04065	mg/L	0.000796	1.96%
Mo 202.031†	1742804.7	229.70	mg/L	2.088	229.70	mg/L	2.088	0.91%
Ni 231.604†	-6285.5	-0.28694	mg/L	0.002770	-0.28694	mg/L	0.002770	0.97%
Concentration less than lower limit for Ni 231.604. Lower limit: -0.01 mg/L.								
Pb 220.353†	-983.4	-0.22026	mg/L	0.001541	-0.22026	mg/L	0.001541	0.70%
Concentration less than lower limit for Pb 220.353. Lower limit: -0.005 mg/L.								
Pb 217.000†	-2669.3	-2.5895	mg/L	0.01800	-2.5895	mg/L	0.01800	0.70%
Se 203.985†	-114.6	-0.17591	mg/L	0.020152	-0.17591	mg/L	0.020152	11.46%
Se 196.026†	-92.8	-0.13643	mg/L	0.018858	-0.13643	mg/L	0.018858	13.82%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	1300.7	0.06024	mg/L	0.000602	0.06024	mg/L	0.000602	1.00%

Sequence No.: 74
Sample ID: 1407019-0002A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 140
Date Collected: 7/7/2014 1:46:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407019-0002A

Analyte	Back Pressure	Flow
All	274.0 kPa	0.55 L/min

Mean Data: 1407019-0002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	656631.3	110.23	%	1.137				1.03%
Ag 328.068†	1954.1	0.02044	mg/L	0.000105	0.02044	mg/L	0.000105	0.51%
As 188.979†	75.5	0.12270	mg/L	0.003252	0.12270	mg/L	0.003252	2.65%
As 193.696†	-19.1	-0.02615	mg/L	0.011350	-0.02615	mg/L	0.011350	43.39%
Ba 233.527†	111698.0	2.0938	mg/L	0.00816	2.0938	mg/L	0.00816	0.39%
Cd 228.802†	59.1	0.00500	mg/L	0.000178	0.00500	mg/L	0.000178	3.56%
Cd 226.502†	-153.9	-0.00400	mg/L	0.000151	-0.00400	mg/L	0.000151	3.77%
Cr 267.716†	6259.8	0.22288	mg/L	0.000428	0.22288	mg/L	0.000428	0.19%
Cr 205.560†	5153.4	0.20193	mg/L	0.002922	0.20193	mg/L	0.002922	1.45%
Cu 324.752†	162373.8	1.2833	mg/L	0.00530	1.2833	mg/L	0.00530	0.41%
Mo 202.031†	660.2	0.08701	mg/L	0.004857	0.08701	mg/L	0.004857	5.58%
Ni 231.604†	7196.7	0.32854	mg/L	0.000785	0.32854	mg/L	0.000785	0.24%
Pb 220.353†	453.0	0.10146	mg/L	0.001267	0.10146	mg/L	0.001267	1.25%
Pb 217.000†	108.6	0.10534	mg/L	0.002080	0.10534	mg/L	0.002080	1.97%
Se 203.985†	-24.5	-0.03765	mg/L	0.002621	-0.03765	mg/L	0.002621	6.96%
Se 196.026†	-21.9	-0.03218	mg/L	0.016766	-0.03218	mg/L	0.016766	52.10%
Zn 206.200†	65541.0	3.0354	mg/L	0.02064	3.0354	mg/L	0.02064	0.68%

Sequence No.: 75
Sample ID: 1407139-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 141
Date Collected: 7/7/2014 1:47:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-001A

Analyte	Back Pressure	Flow
All	274.0 kPa	0.55 L/min

Mean Data: 1407139-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	615873.5	103.39	%	0.189				0.18%
Ag 328.068†	-405.8	-0.00425	mg/L	0.000497	-0.00425	mg/L	0.000497	11.72%
As 188.979†	33.3	0.05412	mg/L	0.003338	0.05412	mg/L	0.003338	6.17%
As 193.696†	-97.0	-0.13263	mg/L	0.004517	-0.13263	mg/L	0.004517	3.41%
Ba 233.527†	205883.1	3.8593	mg/L	0.00311	3.8593	mg/L	0.00311	0.08%
Cd 228.802†	-16.4	-0.00139	mg/L	0.000546	-0.00139	mg/L	0.000546	39.44%
Cd 226.502†	-200.5	-0.00521	mg/L	0.000179	-0.00521	mg/L	0.000179	3.43%
Cr 267.716†	2873.6	0.10231	mg/L	0.000945	0.10231	mg/L	0.000945	0.92%
Cr 205.560†	2265.6	0.08878	mg/L	0.000568	0.08878	mg/L	0.000568	0.64%
Cu 324.752†	5368.2	0.04243	mg/L	0.000463	0.04243	mg/L	0.000463	1.09%
Mo 202.031†	129.8	0.01711	mg/L	0.000777	0.01711	mg/L	0.000777	4.54%
Ni 231.604†	1782.8	0.08139	mg/L	0.000985	0.08139	mg/L	0.000985	1.21%
Pb 220.353†	240.5	0.05386	mg/L	0.000931	0.05386	mg/L	0.000931	1.73%
Pb 217.000†	118.8	0.11521	mg/L	0.001874	0.11521	mg/L	0.001874	1.63%
Se 203.985†	46.3	0.07111	mg/L	0.011890	0.07111	mg/L	0.011890	16.72%
Se 196.026†	-52.8	-0.07758	mg/L	0.012156	-0.07758	mg/L	0.012156	15.67%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	6152.3	0.28494	mg/L	0.001462	0.28494	mg/L	0.001462	0.51%

Sequence No.: 76
Sample ID: 1407139-001AMS
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 142
Date Collected: 7/7/2014 1:48:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-001AMS

Analyte	Back Pressure	Flow
All	273.0 kPa	0.55 L/min

Mean Data: 1407139-001AMS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	607521.7	101.98	%	0.524				0.51%
Ag 328.068†	8429.0	0.08819	mg/L	0.000200	0.08819	mg/L	0.000200	0.23%
As 188.979†	308.8	0.50206	mg/L	0.009467	0.50206	mg/L	0.009467	1.89%
As 193.696†	186.5	0.25503	mg/L	0.022707	0.25503	mg/L	0.022707	8.90%
Ba 233.527†	189502.2	3.5522	mg/L	0.00682	3.5522	mg/L	0.00682	0.19%
Cd 228.802†	5123.1	0.43341	mg/L	0.003070	0.43341	mg/L	0.003070	0.71%
Cd 226.502†	15113.4	0.39283	mg/L	0.000864	0.39283	mg/L	0.000864	0.22%
Cr 267.716†	14763.4	0.52565	mg/L	0.001331	0.52565	mg/L	0.001331	0.25%
Cr 205.560†	13051.1	0.51140	mg/L	0.001091	0.51140	mg/L	0.001091	0.21%
Cu 324.752†	63699.6	0.50344	mg/L	0.000556	0.50344	mg/L	0.000556	0.11%
Mo 202.031†	3180.1	0.41914	mg/L	0.002815	0.41914	mg/L	0.002815	0.67%
Ni 231.604†	10086.6	0.46047	mg/L	0.001425	0.46047	mg/L	0.001425	0.31%
Pb 220.353†	1970.2	0.44130	mg/L	0.004510	0.44130	mg/L	0.004510	1.02%
Pb 217.000†	594.1	0.57631	mg/L	0.005994	0.57631	mg/L	0.005994	1.04%
Se 203.985†	310.5	0.47654	mg/L	0.012955	0.47654	mg/L	0.012955	2.72%
Se 196.026†	254.3	0.37394	mg/L	0.006949	0.37394	mg/L	0.006949	1.86%
Zn 206.200†	14416.6	0.66769	mg/L	0.002708	0.66769	mg/L	0.002708	0.41%

Sequence No.: 77
Sample ID: 1407139-001AMSD
Analyst: JORGE
Initial Sample Wt:
Dilution:

Autosampler Location: 143
Date Collected: 7/7/2014 1:50:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: 1407139-001AMSD

Analyte	Back Pressure	Flow
All	273.0 kPa	0.55 L/min

Mean Data: 1407139-001AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	613015.5	102.91	%	0.349				0.34%
Ag 328.068†	8497.3	0.08890	mg/L	0.000648	0.08890	mg/L	0.000648	0.73%
As 188.979†	319.9	0.52005	mg/L	0.004683	0.52005	mg/L	0.004683	0.90%
As 193.696†	185.1	0.25306	mg/L	0.010145	0.25306	mg/L	0.010145	4.01%
Ba 233.527†	171592.0	3.2165	mg/L	0.00995	3.2165	mg/L	0.00995	0.31%
Cd 228.802†	5121.5	0.43327	mg/L	0.001519	0.43327	mg/L	0.001519	0.35%
Cd 226.502†	15222.8	0.39567	mg/L	0.001797	0.39567	mg/L	0.001797	0.45%
Cr 267.716†	14878.1	0.52973	mg/L	0.001424	0.52973	mg/L	0.001424	0.27%
Cr 205.560†	13158.3	0.51560	mg/L	0.002630	0.51560	mg/L	0.002630	0.51%
Cu 324.752†	63152.4	0.49912	mg/L	0.001008	0.49912	mg/L	0.001008	0.20%
Mo 202.031†	3154.1	0.41570	mg/L	0.000877	0.41570	mg/L	0.000877	0.21%
Ni 231.604†	10214.4	0.46630	mg/L	0.002521	0.46630	mg/L	0.002521	0.54%
Pb 220.353†	1941.0	0.43476	mg/L	0.003256	0.43476	mg/L	0.003256	0.75%
Pb 217.000†	582.0	0.56460	mg/L	0.009897	0.56460	mg/L	0.009897	1.75%
Se 203.985†	325.1	0.49901	mg/L	0.008463	0.49901	mg/L	0.008463	1.70%
Se 196.026†	255.4	0.37555	mg/L	0.007621	0.37555	mg/L	0.007621	2.03%
Zn 206.200†	14816.9	0.68623	mg/L	0.002966	0.68623	mg/L	0.002966	0.43%

Sequence No.: 78 **Autosampler Location:** 2
Sample ID: CCV **Date Collected:** 7/7/2014 1:51:29 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	273.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	609248.9	102.27	%	0.951				0.93%
Ag 328.068†	47699.3	0.49904	mg/L	0.000907	0.49904	mg/L	0.000907	0.18%
QC value within limits for Ag 328.068 Recovery = 99.81%								
As 188.979†	313.3	0.50931	mg/L	0.004413	0.50931	mg/L	0.004413	0.87%
QC value within limits for As 188.979 Recovery = 101.86%								
As 193.696†	372.1	0.50876	mg/L	0.004817	0.50876	mg/L	0.004817	0.95%
Ba 233.527†	27508.5	0.51565	mg/L	0.000568	0.51565	mg/L	0.000568	0.11%
QC value within limits for Ba 233.527 Recovery = 103.13%								
Cd 228.802†	6034.4	0.51050	mg/L	0.000588	0.51050	mg/L	0.000588	0.12%
QC value within limits for Cd 228.802 Recovery = 102.10%								
Cd 226.502†	20072.1	0.52171	mg/L	0.000637	0.52171	mg/L	0.000637	0.12%
Cr 267.716†	14417.8	0.51334	mg/L	0.001507	0.51334	mg/L	0.001507	0.29%
Cr 205.560†	12923.3	0.50639	mg/L	0.000806	0.50639	mg/L	0.000806	0.16%
QC value within limits for Cr 205.560 Recovery = 101.28%								
Cu 324.752†	63864.2	0.50474	mg/L	0.001015	0.50474	mg/L	0.001015	0.20%
QC value within limits for Cu 324.752 Recovery = 100.95%								
Mo 202.031†	3836.9	0.50570	mg/L	0.001977	0.50570	mg/L	0.001977	0.39%
QC value within limits for Mo 202.031 Recovery = 101.14%								
Ni 231.604†	11315.2	0.51656	mg/L	0.001625	0.51656	mg/L	0.001625	0.31%
QC value within limits for Ni 231.604 Recovery = 103.31%								
Pb 220.353†	2300.5	0.51527	mg/L	0.005005	0.51527	mg/L	0.005005	0.97%
QC value within limits for Pb 220.353 Recovery = 103.05%								
Pb 217.000†	510.2	0.49490	mg/L	0.007188	0.49490	mg/L	0.007188	1.45%
Se 203.985†	337.4	0.51790	mg/L	0.012849	0.51790	mg/L	0.012849	2.48%

Se 196.026†	342.5	0.50351 mg/L	0.008037	0.50351 mg/L	0.008037	1.60%
QC value within limits for Se 196.026 Recovery = 100.70%						
Zn 206.200†	11288.9	0.52283 mg/L	0.002389	0.52283 mg/L	0.002389	0.46%
QC value within limits for Zn 206.200 Recovery = 104.57%						

All analyte(s) passed QC.

Sequence No.: 79
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 1:52:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	616011.7	103.41	%	0.585				0.57%
Ag 328.068†	-14.3	-0.00015	mg/L	0.000164	-0.00015	mg/L	0.000164	109.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.0	0.00167	mg/L	0.002564	0.00167	mg/L	0.002564	153.43%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.6	-0.00225	mg/L	0.003257	-0.00225	mg/L	0.003257	144.53%
Ba 233.527†	-1.7	-0.00003	mg/L	0.000120	-0.00003	mg/L	0.000120	365.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.7	-0.00022	mg/L	0.000465	-0.00022	mg/L	0.000465	207.02%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.3	0.00016	mg/L	0.000029	0.00016	mg/L	0.000029	18.00%
Cr 267.716†	1.3	0.00005	mg/L	0.000219	0.00005	mg/L	0.000219	475.57%
Cr 205.560†	-14.3	-0.00056	mg/L	0.000533	-0.00056	mg/L	0.000533	95.15%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-170.6	-0.00135	mg/L	0.000194	-0.00135	mg/L	0.000194	14.38%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	17.9	0.00236	mg/L	0.000583	0.00236	mg/L	0.000583	24.74%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-2.6	-0.00012	mg/L	0.000366	-0.00012	mg/L	0.000366	303.12%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-1.7	-0.00037	mg/L	0.000306	-0.00037	mg/L	0.000306	82.12%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.5	-0.00045	mg/L	0.002701	-0.00045	mg/L	0.002701	598.38%
Se 203.985†	10.8	0.01663	mg/L	0.016069	0.01663	mg/L	0.016069	96.60%
Se 196.026†	-3.6	-0.00534	mg/L	0.009111	-0.00534	mg/L	0.009111	170.53%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	2.3	0.00011	mg/L	0.000062	0.00011	mg/L	0.000062	58.32%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 80
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 1:54:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

No CAT JMP 7/8/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	601568.2	100.98 %	0.681			0.67%
Ag 328.068†	12.7	0.00013 mg/L	0.000104	0.00013 mg/L	0.000104	78.48%
As 188.979†	5.1	0.00833 mg/L	0.004152	0.00833 mg/L	0.004152	49.86%
As 193.696†	-4.9	-0.00663 mg/L	0.005508	-0.00663 mg/L	0.005508	83.01%
Ba 233.527†	-15.0	-0.00028 mg/L	0.000208	-0.00028 mg/L	0.000208	73.82%
Cd 228.802†	-5.3	-0.00045 mg/L	0.000345	-0.00045 mg/L	0.000345	77.08%
Cd 226.502†	7.9	0.00021 mg/L	0.000175	0.00021 mg/L	0.000175	85.51%
Cr 267.716†	5.9	0.00021 mg/L	0.000052	0.00021 mg/L	0.000052	24.81%
Cr 205.560†	11.9	0.00047 mg/L	0.000651	0.00047 mg/L	0.000651	139.34%
Cu 324.752†	-219.1	-0.00173 mg/L	0.000160	-0.00173 mg/L	0.000160	9.22%
Mo 202.031†	13.9	0.00183 mg/L	0.000541	0.00183 mg/L	0.000541	29.64%
Ni 231.604†	-10.6	-0.00048 mg/L	0.000165	-0.00048 mg/L	0.000165	34.31%
Pb 220.353†	-1.5	-0.00034 mg/L	0.000688	-0.00034 mg/L	0.000688	201.73%
Pb 217.000†	0.4	0.00039 mg/L	0.005711	0.00039 mg/L	0.005711	>999.9%
Se 203.985†	0.8	0.00123 mg/L	0.010123	0.00123 mg/L	0.010123	824.97%
Se 196.026†	-10.8	-0.01591 mg/L	0.011599	-0.01591 mg/L	0.011599	72.92%
Zn 206.200†	19.0	0.00088 mg/L	0.000156	0.00088 mg/L	0.000156	17.70%

All analyte(s) passed QC.

7/7/14

Sequence No.: 81
Sample ID: 1407139-002A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 144
Date Collected: 7/7/2014 1:55:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-002A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	584713.5	98.155	%	0.5875				0.60%
Ag 328.068†	-528.5	-0.00553	mg/L	0.000130	-0.00553	mg/L	0.000130	2.35%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	47.0	0.07638	mg/L	0.002999	0.07638	mg/L	0.002999	3.93%
As 193.696†	-120.9	-0.16534	mg/L	0.005403	-0.16534	mg/L	0.005403	3.27%
Ba 233.527†	292902.3	5.4905	mg/L	0.01072	5.4905	mg/L	0.01072	0.20%
Cd 228.802†	-30.4	-0.00257	mg/L	0.000199	-0.00257	mg/L	0.000199	7.74%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-205.7	-0.00535	mg/L	0.000228	-0.00535	mg/L	0.000228	4.27%
Cr 267.716†	3197.9	0.11386	mg/L	0.000802	0.11386	mg/L	0.000802	0.70%
Cr 205.560†	2538.1	0.09945	mg/L	0.002111	0.09945	mg/L	0.002111	2.12%
Cu 324.752†	4316.9	0.03412	mg/L	0.000089	0.03412	mg/L	0.000089	0.26%
Mo 202.031†	41.7	0.00549	mg/L	0.000750	0.00549	mg/L	0.000750	13.66%
Ni 231.604†	2033.4	0.09283	mg/L	0.001179	0.09283	mg/L	0.001179	1.27%
Pb 220.353†	132.0	0.02956	mg/L	0.002032	0.02956	mg/L	0.002032	6.87%
Pb 217.000†	108.4	0.10513	mg/L	0.004411	0.10513	mg/L	0.004411	4.20%
Se 203.985†	73.0	0.11197	mg/L	0.041270	0.11197	mg/L	0.041270	36.86%
Se 196.026†	-62.1	-0.09124	mg/L	0.010585	-0.09124	mg/L	0.010585	11.60%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	6067.0	0.28098	mg/L	0.001861	0.28098	mg/L	0.001861	0.66%

Sequence No.: 82
Sample ID: 1407139-003A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 145
Date Collected: 7/7/2014 1:56:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-003A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	586136.4	98.394	%	0.6560				0.67%
Ag 328.068†	-484.4	-0.00507	mg/L	0.000565	-0.00507	mg/L	0.000565	11.14%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	44.2	0.07190	mg/L	0.003985	0.07190	mg/L	0.003985	5.54%
As 193.696†	-110.8	-0.15150	mg/L	0.007651	-0.15150	mg/L	0.007651	5.05%
Ba 233.527†	270798.6	5.0761	mg/L	0.01850	5.0761	mg/L	0.01850	0.36%
Cd 228.802†	-21.1	-0.00179	mg/L	0.000287	-0.00179	mg/L	0.000287	16.06%
Cd 226.502†	-211.1	-0.00549	mg/L	0.000223	-0.00549	mg/L	0.000223	4.06%
Cr 267.716†	3211.9	0.11436	mg/L	0.001331	0.11436	mg/L	0.001331	1.16%
Cr 205.560†	2551.8	0.09999	mg/L	0.000754	0.09999	mg/L	0.000754	0.75%
Cu 324.752†	3370.5	0.02664	mg/L	0.000458	0.02664	mg/L	0.000458	1.72%
Mo 202.031†	33.4	0.00441	mg/L	0.000264	0.00441	mg/L	0.000264	6.00%
Ni 231.604†	2021.3	0.09228	mg/L	0.000783	0.09228	mg/L	0.000783	0.85%
Pb 220.353†	153.7	0.03442	mg/L	0.003120	0.03442	mg/L	0.003120	9.07%
Pb 217.000†	106.7	0.10355	mg/L	0.010403	0.10355	mg/L	0.010403	10.05%
Se 203.985†	65.9	0.10118	mg/L	0.027413	0.10118	mg/L	0.027413	27.09%
Se 196.026†	-58.5	-0.08601	mg/L	0.010414	-0.08601	mg/L	0.010414	12.11%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	5772.1	0.26733	mg/L	0.000549	0.26733	mg/L	0.000549	0.21%

Sequence No.: 83
Sample ID: 1407139-004A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 146
Date Collected: 7/7/2014 1:57:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-004A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-004A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	660333.6	110.85	%	0.756				0.68%
Ag 328.068†	-390.5	-0.00409	mg/L	0.000226	-0.00409	mg/L	0.000226	5.53%
As 188.979†	47.3	0.07683	mg/L	0.002623	0.07683	mg/L	0.002623	3.41%
As 193.696†	-135.7	-0.18556	mg/L	0.011143	-0.18556	mg/L	0.011143	6.01%
Ba 233.527†	215258.0	4.0350	mg/L	0.00622	4.0350	mg/L	0.00622	0.15%
Cd 228.802†	-15.1	-0.00128	mg/L	0.000033	-0.00128	mg/L	0.000033	2.56%
Cd 226.502†	-277.9	-0.00722	mg/L	0.000053	-0.00722	mg/L	0.000053	0.74%
Cr 267.716†	3876.6	0.13803	mg/L	0.001180	0.13803	mg/L	0.001180	0.85%
Cr 205.560†	3046.6	0.11938	mg/L	0.000857	0.11938	mg/L	0.000857	0.72%
Cu 324.752†	7758.9	0.06132	mg/L	0.000097	0.06132	mg/L	0.000097	0.16%
Mo 202.031†	40.8	0.00538	mg/L	0.000303	0.00538	mg/L	0.000303	5.63%
Ni 231.604†	2420.3	0.11049	mg/L	0.000617	0.11049	mg/L	0.000617	0.56%
Pb 220.353†	442.6	0.09914	mg/L	0.001112	0.09914	mg/L	0.001112	1.12%
Pb 217.000†	196.2	0.19037	mg/L	0.005313	0.19037	mg/L	0.005313	2.79%
Se 203.985†	30.9	0.04737	mg/L	0.022594	0.04737	mg/L	0.022594	47.70%
Se 196.026†	-35.8	-0.05257	mg/L	0.023967	-0.05257	mg/L	0.023967	45.59%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	8362.6	0.38731	mg/L	0.000773	0.38731	mg/L	0.000773	0.20%

Sequence No.: 84
Sample ID: 1407139-005A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 147
Date Collected: 7/7/2014 1:59:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-005A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-005A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	698064.1	117.18	%	0.333				0.28%
Ag 328.068†	-357.7	-0.00374	mg/L	0.000266	-0.00374	mg/L	0.000266	7.12%
As 188.979†	49.8	0.08095	mg/L	0.005559	0.08095	mg/L	0.005559	6.87%
As 193.696†	-207.6	-0.28385	mg/L	0.011342	-0.28385	mg/L	0.011342	4.00%
Ba 233.527†	133036.6	2.4938	mg/L	0.00608	2.4938	mg/L	0.00608	0.24%
Cd 228.802†	-11.4	-0.00096	mg/L	0.000261	-0.00096	mg/L	0.000261	27.09%
Cd 226.502†	-399.9	-0.01039	mg/L	0.000033	-0.01039	mg/L	0.000033	0.31%
Cr 267.716†	5566.0	0.19817	mg/L	0.000699	0.19817	mg/L	0.000699	0.35%
Cr 205.560†	4418.6	0.17314	mg/L	0.002209	0.17314	mg/L	0.002209	1.28%
Cu 324.752†	15174.9	0.11993	mg/L	0.000519	0.11993	mg/L	0.000519	0.43%
Mo 202.031†	56.2	0.00741	mg/L	0.000786	0.00741	mg/L	0.000786	10.61%
Ni 231.604†	3711.2	0.16942	mg/L	0.001103	0.16942	mg/L	0.001103	0.65%
Pb 220.353†	271.9	0.06089	mg/L	0.003390	0.06089	mg/L	0.003390	5.57%
Pb 217.000†	172.7	0.16749	mg/L	0.015733	0.16749	mg/L	0.015733	9.39%
Se 203.985†	17.6	0.02696	mg/L	0.035069	0.02696	mg/L	0.035069	130.06%
Se 196.026†	-52.7	-0.07746	mg/L	0.017142	-0.07746	mg/L	0.017142	22.13%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	11289.5	0.52286	mg/L	0.002160	0.52286	mg/L	0.002160	0.41%

Sequence No.: 85
Sample ID: 1407139-006A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 148
Date Collected: 7/7/2014 2:00:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-006A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-006A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	553772.5	92.961	%	0.6464				0.70%
Ag 328.068†	-691.1	-0.00723	mg/L	0.000364	-0.00723	mg/L	0.000364	5.04%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	68.7	0.11163	mg/L	0.015427	0.11163	mg/L	0.015427	13.82%
As 193.696†	-130.5	-0.17841	mg/L	0.005889	-0.17841	mg/L	0.005889	3.30%
Ba 233.527†	142092.9	2.6635	mg/L	0.00213	2.6635	mg/L	0.00213	0.08%
Cd 228.802†	-38.7	-0.00327	mg/L	0.000340	-0.00327	mg/L	0.000340	10.39%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-155.1	-0.00403	mg/L	0.000301	-0.00403	mg/L	0.000301	7.47%
Cr 267.716†	3048.3	0.10853	mg/L	0.000794	0.10853	mg/L	0.000794	0.73%
Cr 205.560†	2463.7	0.09654	mg/L	0.000642	0.09654	mg/L	0.000642	0.66%
Cu 324.752†	3322.9	0.02626	mg/L	0.000300	0.02626	mg/L	0.000300	1.14%
Mo 202.031†	12.2	0.00161	mg/L	0.000620	0.00161	mg/L	0.000620	38.46%
Ni 231.604†	2135.8	0.09750	mg/L	0.000751	0.09750	mg/L	0.000751	0.77%
Pb 220.353†	97.7	0.02188	mg/L	0.001122	0.02188	mg/L	0.001122	5.13%
Pb 217.000†	107.1	0.10391	mg/L	0.005619	0.10391	mg/L	0.005619	5.41%
Se 203.985†	126.8	0.19462	mg/L	0.011898	0.19462	mg/L	0.011898	6.11%
Se 196.026†	-80.7	-0.11868	mg/L	0.020351	-0.11868	mg/L	0.020351	17.15%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	5227.8	0.24212	mg/L	0.001750	0.24212	mg/L	0.001750	0.72%

Sequence No.: 86
Sample ID: 1407139-007A
Analyst: JORGE
Initial Sample Wt:
Dilution:

Autosampler Location: 149
Date Collected: 7/7/2014 2:01:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: 1407139-007A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-007A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	553638.5	92.939	%	0.3462				0.37%
Ag 328.068†	-788.4	-0.00825	mg/L	0.000411	-0.00825	mg/L	0.000411	4.98%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	62.5	0.10164	mg/L	0.005138	0.10164	mg/L	0.005138	5.05%
As 193.696†	-121.1	-0.16556	mg/L	0.013711	-0.16556	mg/L	0.013711	8.28%
Ba 233.527†	123368.2	2.3125	mg/L	0.00268	2.3125	mg/L	0.00268	0.12%
Cd 228.802†	-37.8	-0.00320	mg/L	0.000219	-0.00320	mg/L	0.000219	6.84%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-143.2	-0.00372	mg/L	0.000326	-0.00372	mg/L	0.000326	8.76%
Cr 267.716†	2843.3	0.10124	mg/L	0.000726	0.10124	mg/L	0.000726	0.72%
Cr 205.560†	2265.2	0.08876	mg/L	0.002065	0.08876	mg/L	0.002065	2.33%
Cu 324.752†	3169.4	0.02505	mg/L	0.000268	0.02505	mg/L	0.000268	1.07%
Mo 202.031†	12.4	0.00164	mg/L	0.001213	0.00164	mg/L	0.001213	73.95%
Ni 231.604†	1961.4	0.08954	mg/L	0.000175	0.08954	mg/L	0.000175	0.20%
Pb 220.353†	83.8	0.01877	mg/L	0.000571	0.01877	mg/L	0.000571	3.04%
Pb 217.000†	106.8	0.10363	mg/L	0.009780	0.10363	mg/L	0.009780	9.44%
Se 203.985†	127.3	0.19539	mg/L	0.032997	0.19539	mg/L	0.032997	16.89%
Se 196.026†	-81.1	-0.11926	mg/L	0.017764	-0.11926	mg/L	0.017764	14.89%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	4968.8	0.23013	mg/L	0.000729	0.23013	mg/L	0.000729	0.32%

Sequence No.: 87 **Autosampler Location:** 150
Sample ID: 1407139-008A **Date Collected:** 7/7/2014 2:02:54 PM
Analyst: JORGE **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: 1407139-008A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1407139-008A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	632526.3	106.18	%	0.386				0.36%
Ag 328.068†	-480.3	-0.00503	mg/L	0.000277	-0.00503	mg/L	0.000277	5.52%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	39.8	0.06471	mg/L	0.007124	0.06471	mg/L	0.007124	11.01%
As 193.696†	-126.0	-0.17223	mg/L	0.003718	-0.17223	mg/L	0.003718	2.16%
Ba 233.527†	127161.5	2.3837	mg/L	0.00125	2.3837	mg/L	0.00125	0.05%
Cd 228.802†	-18.3	-0.00154	mg/L	0.000344	-0.00154	mg/L	0.000344	22.29%
Cd 226.502†	-215.8	-0.00561	mg/L	0.000211	-0.00561	mg/L	0.000211	3.77%
Cr 267.716†	3273.0	0.11653	mg/L	0.001323	0.11653	mg/L	0.001323	1.14%
Cr 205.560†	2594.2	0.10165	mg/L	0.000650	0.10165	mg/L	0.000650	0.64%
Cu 324.752†	7180.4	0.05675	mg/L	0.000354	0.05675	mg/L	0.000354	0.62%
Mo 202.031†	35.2	0.00463	mg/L	0.000620	0.00463	mg/L	0.000620	13.39%
Ni 231.604†	2006.6	0.09160	mg/L	0.000839	0.09160	mg/L	0.000839	0.92%
Pb 220.353†	232.7	0.05211	mg/L	0.002442	0.05211	mg/L	0.002442	4.69%
Pb 217.000†	136.8	0.13270	mg/L	0.016980	0.13270	mg/L	0.016980	12.80%
Se 203.985†	29.0	0.04450	mg/L	0.020823	0.04450	mg/L	0.020823	46.79%
Se 196.026†	-55.4	-0.08150	mg/L	0.006902	-0.08150	mg/L	0.006902	8.47%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	6595.4	0.30546	mg/L	0.002499	0.30546	mg/L	0.002499	0.82%

Sequence No.: 88
Sample ID: 1407139-009A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 151
Date Collected: 7/7/2014 2:04:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-009A

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: 1407139-009A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	632707.5	106.21	%	1.056				0.99%
Ag 328.068†	-411.5	-0.00431	mg/L	0.000180	-0.00431	mg/L	0.000180	4.18%
As 188.979†	42.3	0.06870	mg/L	0.009558	0.06870	mg/L	0.009558	13.91%
As 193.696†	-134.8	-0.18436	mg/L	0.017654	-0.18436	mg/L	0.017654	9.58%
Ba 233.527†	179654.3	3.3676	mg/L	0.00158	3.3676	mg/L	0.00158	0.05%
Cd 228.802†	-14.5	-0.00123	mg/L	0.000262	-0.00123	mg/L	0.000262	21.31%
Cd 226.502†	-257.2	-0.00668	mg/L	0.000292	-0.00668	mg/L	0.000292	4.37%
Cr 267.716†	4170.4	0.14849	mg/L	0.001694	0.14849	mg/L	0.001694	1.14%
Cr 205.560†	3315.5	0.12992	mg/L	0.002136	0.12992	mg/L	0.002136	1.64%
Cu 324.752†	7836.1	0.06193	mg/L	0.000715	0.06193	mg/L	0.000715	1.15%
Mo 202.031†	38.5	0.00507	mg/L	0.000451	0.00507	mg/L	0.000451	8.88%
Ni 231.604†	2279.7	0.10407	mg/L	0.000965	0.10407	mg/L	0.000965	0.93%
Pb 220.353†	519.2	0.11630	mg/L	0.002184	0.11630	mg/L	0.002184	1.88%
Pb 217.000†	204.5	0.19843	mg/L	0.007211	0.19843	mg/L	0.007211	3.63%
Se 203.985†	35.9	0.05509	mg/L	0.007239	0.05509	mg/L	0.007239	13.14%
Se 196.026†	-48.4	-0.07109	mg/L	0.004850	-0.07109	mg/L	0.004850	6.82%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7577.6	0.35095	mg/L	0.003348	0.35095	mg/L	0.003348	0.95%

Sequence No.: 89
Sample ID: 1407139-010A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 152
Date Collected: 7/7/2014 2:05:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-010A

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: 1407139-010A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	566412.1	95.083	%	1.7548				1.85%
Ag 328.068†	-652.0	-0.00682	mg/L	0.000219	-0.00682	mg/L	0.000219	3.21%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	62.4	0.10143	mg/L	0.016456	0.10143	mg/L	0.016456	16.22%
As 193.696†	-102.5	-0.14009	mg/L	0.011617	-0.14009	mg/L	0.011617	8.29%
Ba 233.527†	234658.4	4.3987	mg/L	0.09807	4.3987	mg/L	0.09807	2.23%
Cd 228.802†	-29.9	-0.00253	mg/L	0.000165	-0.00253	mg/L	0.000165	6.51%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-150.0	-0.00390	mg/L	0.000097	-0.00390	mg/L	0.000097	2.48%
Cr 267.716†	2693.1	0.09589	mg/L	0.001380	0.09589	mg/L	0.001380	1.44%
Cr 205.560†	2175.8	0.08526	mg/L	0.000960	0.08526	mg/L	0.000960	1.13%
Cu 324.752†	3291.9	0.02602	mg/L	0.000369	0.02602	mg/L	0.000369	1.42%
Mo 202.031†	12.3	0.00161	mg/L	0.000495	0.00161	mg/L	0.000495	30.63%
Ni 231.604†	1833.8	0.08371	mg/L	0.000709	0.08371	mg/L	0.000709	0.85%
Pb 220.353†	99.5	0.02229	mg/L	0.001501	0.02229	mg/L	0.001501	6.73%
Pb 217.000†	100.1	0.09706	mg/L	0.004831	0.09706	mg/L	0.004831	4.98%
Se 203.985†	107.9	0.16563	mg/L	0.029247	0.16563	mg/L	0.029247	17.66%
Se 196.026†	-73.4	-0.10795	mg/L	0.003415	-0.10795	mg/L	0.003415	3.16%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Zn 206.200†	4984.5	0.23085 mg/L	0.003482	0.23085 mg/L	0.003482	1.51%

Sequence No.: 90
Sample ID: 1407139-011A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 153
Date Collected: 7/7/2014 2:06:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407139-011A

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: 1407139-011A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	612610.0	102.84	%	0.636				0.62%
Ag 328.068†	-367.9	-0.00385	mg/L	0.000292	-0.00385	mg/L	0.000292	7.59%
As 188.979†	40.6	0.06602	mg/L	0.012513	0.06602	mg/L	0.012513	18.95%
As 193.696†	-130.0	-0.17776	mg/L	0.018199	-0.17776	mg/L	0.018199	10.24%
Ba 233.527†	319517.0	5.9894	mg/L	0.00336	5.9894	mg/L	0.00336	0.06%
Cd 228.802†	-20.8	-0.00176	mg/L	0.000286	-0.00176	mg/L	0.000286	16.22%
Cd 226.502†	-249.6	-0.00649	mg/L	0.000225	-0.00649	mg/L	0.000225	3.46%
Cr 267.716†	3542.2	0.12612	mg/L	0.001057	0.12612	mg/L	0.001057	0.84%
Cr 205.560†	2781.4	0.10899	mg/L	0.001091	0.10899	mg/L	0.001091	1.00%
Cu 324.752†	5519.4	0.04362	mg/L	0.000301	0.04362	mg/L	0.000301	0.69%
Mo 202.031†	44.6	0.00588	mg/L	0.000157	0.00588	mg/L	0.000157	2.66%
Ni 231.604†	2115.5	0.09658	mg/L	0.000686	0.09658	mg/L	0.000686	0.71%
Pb 220.353†	207.9	0.04656	mg/L	0.003151	0.04656	mg/L	0.003151	6.77%
Pb 217.000†	117.7	0.11418	mg/L	0.013274	0.11418	mg/L	0.013274	11.62%
Se 203.985†	21.4	0.03287	mg/L	0.011575	0.03287	mg/L	0.011575	35.22%
Se 196.026†	-53.4	-0.07852	mg/L	0.013763	-0.07852	mg/L	0.013763	17.53%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	7038.3	0.32597	mg/L	0.003432	0.32597	mg/L	0.003432	1.05%

Sequence No.: 91
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 2:07:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	582733.5	97.823	%	0.6547				0.67%
Ag 328.068†	49872.8	0.52178	mg/L	0.001130	0.52178	mg/L	0.001130	0.22%
QC value within limits for Ag 328.068 Recovery = 104.36%								
As 188.979†	330.5	0.53735	mg/L	0.010141	0.53735	mg/L	0.010141	1.89%
QC value within limits for As 188.979 Recovery = 107.47%								
As 193.696†	388.6	0.53135	mg/L	0.017221	0.53135	mg/L	0.017221	3.24%
Ba 233.527†	28799.2	0.53984	mg/L	0.002063	0.53984	mg/L	0.002063	0.38%
QC value within limits for Ba 233.527 Recovery = 107.97%								
Cd 228.802†	6379.5	0.53970	mg/L	0.003972	0.53970	mg/L	0.003972	0.74%
QC value within limits for Cd 228.802 Recovery = 107.94%								
Cd 226.502†	21023.1	0.54643	mg/L	0.002765	0.54643	mg/L	0.002765	0.51%
Cr 267.716†	15191.9	0.54090	mg/L	0.000403	0.54090	mg/L	0.000403	0.07%
Cr 205.560†	13625.5	0.53391	mg/L	0.003421	0.53391	mg/L	0.003421	0.64%
QC value within limits for Cr 205.560 Recovery = 106.78%								

Cu 324.752†	66749.0	0.52754 mg/L	0.001494	0.52754 mg/L	0.001494	0.28%
QC value within limits for Cu 324.752 Recovery = 105.51%						
Mo 202.031†	4007.8	0.52822 mg/L	0.002010	0.52822 mg/L	0.002010	0.38%
QC value within limits for Mo 202.031 Recovery = 105.64%						
Ni 231.604†	11839.5	0.54049 mg/L	0.002736	0.54049 mg/L	0.002736	0.51%
QC value within limits for Ni 231.604 Recovery = 108.10%						
Pb 220.353†	2447.1	0.54812 mg/L	0.004851	0.54812 mg/L	0.004851	0.88%
QC value within limits for Pb 220.353 Recovery = 109.62%						
Pb 217.000†	535.1	0.51907 mg/L	0.007619	0.51907 mg/L	0.007619	1.47%
Se 203.985†	354.1	0.54342 mg/L	0.003890	0.54342 mg/L	0.003890	0.72%
Se 196.026†	365.4	0.53722 mg/L	0.009505	0.53722 mg/L	0.009505	1.77%
QC value within limits for Se 196.026 Recovery = 107.44%						
Zn 206.200†	11882.3	0.55031 mg/L	0.003867	0.55031 mg/L	0.003867	0.70%
QC value greater than the upper limit for Zn 206.200 Recovery = 110.06%						
QC Failed. Retry.						

7/7/14

Sequence No.: 92
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 2:08:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	580142.1	97.388	%	0.3717				0.38%
Ag 328.068†	49888.7	0.52194	mg/L	0.000285	0.52194	mg/L	0.000285	0.05%
QC value within limits for Ag 328.068 Recovery = 104.39%								
As 188.979†	329.1	0.53505	mg/L	0.005829	0.53505	mg/L	0.005829	1.09%
QC value within limits for As 188.979 Recovery = 107.01%								
As 193.696†	384.7	0.52593	mg/L	0.011320	0.52593	mg/L	0.011320	2.15%
Ba 233.527†	28852.7	0.54085	mg/L	0.001718	0.54085	mg/L	0.001718	0.32%
QC value within limits for Ba 233.527 Recovery = 108.17%								
Cd 228.802†	6363.5	0.53834	mg/L	0.005687	0.53834	mg/L	0.005687	1.06%
QC value within limits for Cd 228.802 Recovery = 107.67%								
Cd 226.502†	21027.2	0.54654	mg/L	0.000404	0.54654	mg/L	0.000404	0.07%
Cr 267.716†	15157.3	0.53967	mg/L	0.001027	0.53967	mg/L	0.001027	0.19%
Cr 205.560†	13609.0	0.53326	mg/L	0.003841	0.53326	mg/L	0.003841	0.72%
QC value within limits for Cr 205.560 Recovery = 106.65%								
Cu 324.752†	66731.5	0.52741	mg/L	0.000262	0.52741	mg/L	0.000262	0.05%
QC value within limits for Cu 324.752 Recovery = 105.48%								
Mo 202.031†	4016.4	0.52936	mg/L	0.005141	0.52936	mg/L	0.005141	0.97%
QC value within limits for Mo 202.031 Recovery = 105.87%								
Ni 231.604†	11855.1	0.54121	mg/L	0.001475	0.54121	mg/L	0.001475	0.27%
QC value within limits for Ni 231.604 Recovery = 108.24%								
Pb 220.353†	2428.0	0.54384	mg/L	0.007821	0.54384	mg/L	0.007821	1.44%
QC value within limits for Pb 220.353 Recovery = 108.77%								
Pb 217.000†	530.9	0.51504	mg/L	0.005073	0.51504	mg/L	0.005073	0.98%
Se 203.985†	342.2	0.52519	mg/L	0.018642	0.52519	mg/L	0.018642	3.55%
Se 196.026†	366.5	0.53882	mg/L	0.004199	0.53882	mg/L	0.004199	0.78%
QC value within limits for Se 196.026 Recovery = 107.76%								
Zn 206.200†	11856.8	0.54913	mg/L	0.002165	0.54913	mg/L	0.002165	0.39%
QC value within limits for Zn 206.200 Recovery = 109.83%								
All analyte(s) passed QC.								

Sequence No.: 93
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 2:10:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	602730.4	101.18	%	0.934				0.92%
Ag 328.068†	16.0	0.00017	mg/L	0.000054	0.00017	mg/L	0.000054	32.30%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	4.2	0.00685	mg/L	0.003687	0.00685	mg/L	0.003687	53.80%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.9	-0.00117	mg/L	0.000903	-0.00117	mg/L	0.000903	77.05%
Ba 233.527†	-16.8	-0.00031	mg/L	0.000305	-0.00031	mg/L	0.000305	96.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.6	-0.00022	mg/L	0.000428	-0.00022	mg/L	0.000428	197.20%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	3.2	0.00008	mg/L	0.000156	0.00008	mg/L	0.000156	185.25%
Cr 267.716†	-3.6	-0.00013	mg/L	0.000143	-0.00013	mg/L	0.000143	111.67%
Cr 205.560†	-4.3	-0.00017	mg/L	0.000638	-0.00017	mg/L	0.000638	382.56%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-230.8	-0.00182	mg/L	0.000472	-0.00182	mg/L	0.000472	25.89%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	7.4	0.00097	mg/L	0.000293	0.00097	mg/L	0.000293	30.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-8.9	-0.00040	mg/L	0.000165	-0.00040	mg/L	0.000165	40.96%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.7	-0.00150	mg/L	0.000863	-0.00150	mg/L	0.000863	57.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	3.3	0.00316	mg/L	0.002722	0.00316	mg/L	0.002722	86.24%
Se 203.985†	8.8	0.01345	mg/L	0.006464	0.01345	mg/L	0.006464	48.05%
Se 196.026†	-4.2	-0.00618	mg/L	0.005123	-0.00618	mg/L	0.005123	82.93%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	1.9	0.00009	mg/L	0.000058	0.00009	mg/L	0.000058	64.31%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 94
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

No CAT JMF 7/7/14

Autosampler Location: 3
Date Collected: 7/7/2014 2:11:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	598100.9	100.40	%	1.588				1.58%
Ag 328.068†	-2.0	-0.00002	mg/L	0.000489	-0.00002	mg/L	0.000489	>999.9%
As 188.979†	-0.2	-0.00038	mg/L	0.002464	-0.00038	mg/L	0.002464	648.82%
As 193.696†	-6.6	-0.00903	mg/L	0.002730	-0.00903	mg/L	0.002730	30.24%
Ba 233.527†	-9.4	-0.00018	mg/L	0.000060	-0.00018	mg/L	0.000060	34.38%
Cd 228.802†	-5.9	-0.00050	mg/L	0.000291	-0.00050	mg/L	0.000291	58.64%
Cd 226.502†	3.7	0.00010	mg/L	0.000027	0.00010	mg/L	0.000027	27.45%
Cr 267.716†	-0.8	-0.00003	mg/L	0.000059	-0.00003	mg/L	0.000059	216.60%
Cr 205.560†	-1.1	-0.00004	mg/L	0.000574	-0.00004	mg/L	0.000574	>999.9%
Cu 324.752†	-257.1	-0.00203	mg/L	0.000563	-0.00203	mg/L	0.000563	27.71%
Mo 202.031†	1.8	0.00024	mg/L	0.000509	0.00024	mg/L	0.000509	212.27%
Ni 231.604†	-8.1	-0.00037	mg/L	0.000302	-0.00037	mg/L	0.000302	81.61%
Pb 220.353†	0.2	0.00003	mg/L	0.001581	0.00003	mg/L	0.001581	>999.9%

√ 7-7-14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407188**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407188

Lab ID: 1407188-001
Client Sample ID: FFOR-CF-0027

Collection Date: 7/3/2014 9:35:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
PERCENT MOISTURE							Analyst: **DJF**
Percent Moisture	16	1.0		wt%	1	R19706	7/3/2014 2:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

Date extracted: 7-3-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: KJH		Thermometer Exp Date: 7/23/2014
Start time: 7-3-14 11:59am	Start Temp: 109C		Reviewed by: ✓ 7-7-14
End time: 7-7-14 11:47am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
MeOH Kits								#VALUE!
1407188-001a	26.1	42.55	1.00	2.00	2.00	16.4500	0.0000	0.6079
Low Level Soil								#VALUE!
1407188-001a	32.0	40.26				8.2580		#VALUE!
Pmoist								#VALUE!
1407188-001a			1.33	27.86	23.70		15.6804	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407188-001A

$$\frac{(27.86-23.70)}{(27.86-1.33)} \times 100 = 15.6804$$ ✓ DF 7/7/2014

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1407188-001A

$$\frac{\left(10/16.4500\right)}{\left(\frac{100-0}{100}\right)} = 0.6079$$ ✓ DF 7/7/2014

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 12:21:26 P**
Prep End Date: **7/7/2014 1:48:56 P**

√ 7-7-14

Prep Batch ID: **14065** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14065		Solid			5	0	0	5	1.000	7/3/2014	7/7/2014
LCS-14065		Solid			5	0	0	5	1.000	7/3/2014	7/7/2014
1407188-001A	FFOR-CF-0027	MeOH (Soil)			8.258	0	0	5	0.605	7/3/2014	7/7/2014
1407188-001AMS		MeOH (Soil)			8.3	0	0	5	0.602	7/3/2014	7/7/2014
1407188-001AMSD		MeOH (Soil)			8.3	0	0	5	0.602	7/3/2014	7/7/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8033	8260 lcs	LCS/MS/MSD	25982	Container-01 of 01	4	µL

Analytical Report
Lab Order: **1407188**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407188

Lab ID: 1407188-001
Client Sample ID: FFOR-CF-0027
Collection Date: 7/3/2014 9:35:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	12		mg/Kg-dry	1	14085	7/8/2014 12:26:57 PM
Motor Oil Range Organics (MRO)	ND	59		mg/Kg-dry	1	14085	7/8/2014 12:26:57 PM
Surr: DNOP	75.2	57.9-140		%REC	1	14085	7/8/2014 12:26:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Batch ID: 14085 Prep Code: [illegible]

Initial Temp: °C Final Temp: °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Soil Added	Soil Recov	Fin Vol	Prep Date	Prep Init
MB-14085		Soil	BN 7-7-14		10	0	0	10	1.000	7/7/2014
LCS-14085		Soil			10	0	0	10	1.000	7/7/2014
1407156-001A	Cell 2G	Soil			10 9.99	0	0	10	1.000	7/7/2014
1407156-001AMS		Soil			10 10.17	0	0	10	1.000	7/7/2014
1407156-001AMSD		Soil			10 9.96	0	0	10	1.000	7/7/2014
1407156-002A	Cell 3F	Soil			10 10.10	0	0	10	1.000	7/7/2014
1407156-003A	Cell 4E	Soil			10 10.14	0	0	10	1.000	7/7/2014
1407156-004A	Cell 7E	Soil			10 10.17	0	0	10	1.000	7/7/2014
1407156-005A	Cell 8A	Soil			10 9.94	0	0	10	1.000	7/7/2014
1407156-006A	Cell 9H	Soil			10 10.05	0	0	10	1.000	7/7/2014
1407156-007A	Cell 11H	Soil			10 10.06	0	0	10	1.000	7/7/2014
1407156-008A	Cell 12E	Soil			10 10.06	0	0	10	1.000	7/7/2014
1407156-009A	Cell 13E	Soil			10 9.98	0	0	10	1.000	7/7/2014
1407157-001A	Cell 1	Soil			10 9.97	0	0	10	1.000	7/7/2014
1407157-002A	Cell 2	Soil			10 10.13	0	0	10	1.000	7/7/2014
1407157-003A	Cell 5	Soil			10 9.99	0	0	10	1.000	7/7/2014
1407183-001A	S-2	Soil			10 10.06	0	0	10	1.000	7/7/2014
1407188-001A	FFOR-CF-0027	MeOH (Soil)			10 9.98	0	0	10	1.000	7/7/2014
1407242-001A	SB-16@2'	Soil			10 10.02	0	0	10	1.000	7/7/2014
1407242-002A	SB-16@6 inches	Soil			10 10.14	0	0	10	1.000	7/7/2014
1407242-003A	SB-17@2'	Soil			10 9.91	0	0	10	1.000	7/7/2014
1407242-004A	SB-18@5'	Soil			10 10.02	0	0	10	1.000	7/7/2014
1407242-005A	SB-18@8'	Soil			10 9.95	0	0	10	1.000	7/7/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	BN 7-7-14	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand		14066	Container-01 of 01	0	mL

PREP BATCH REPORT

Hall Environmental Analysis Laboratory

Prep Start Date: **7/7/2014 10:46:01 A**
Prep End Date:
Prep Batch ID: **14085** Prep Code: **8015_S_PREP** Technician: **Brenda Nieto**
Initial Temp: **°C** Final Temp **°C**

BN 7.7.14

Prep Factor Units:
mL / g

Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14002	5,000 ppm Diesel, 500 ppm DNOP	LCS	25890	Container-01 of 01	100	µL
ST8015-14003	1,000 DNOP	SAMP	25891	Container-01 of 01	100	µL

BN 7-8-14

Sequence Print

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1407156-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001A <D>.dat	1
6	Unknown	0	1	1407156-001AMS	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001AMS <D>.dat	1
7	Unknown	0	1	1407156-001AMSD	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001AMSD <D>.dat	1
8	Unknown	0	1	MB-14101	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14101 <D>.dat	1
9	Unknown	0	1	LCS-14101	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14101 <D>.dat	1
10	Unknown	0	1	1407303-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001A <D>.dat	1
11	Unknown	0	1	1407303-001AMS	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001AMS <D>.dat	1
12	Unknown	0	1	1407303-001AMSD	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001AMSD <D>.dat	1
13	Unknown	0	1	1407303-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-002A <D>.dat	1
14	Unknown	0	1	1407303-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-003A <D>.dat	1
15	Unknown	0	1	1407303-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-004A <D>.dat	1
16	Unknown	0	1	1407188-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407188-001A <D>.dat	1
17	Unknown	0	1	1407244-016A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\140744-016A <D>.dat	1
18	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

JQZ 7/9/14

BW 7-8-14

19	Unknown	0	1	1407156-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-002A <D>.dat	1
20	Unknown	0	1	1407156-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-003A <D>.dat	1
21	Unknown	0	1	1407156-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-004A <D>.dat	1
22	Unknown	0	1	1407156-005A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-005A <D>.dat	1
23	Unknown	0	1	1407156-006A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-006A <D>.dat	1
24	Unknown	0	1	1407156-007A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-007A <D>.dat	1
25	Unknown	0	1	1407156-008A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-008A <D>.dat	1
26	Unknown	0	1	1407156-009A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-009A <D>.dat	1
27	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

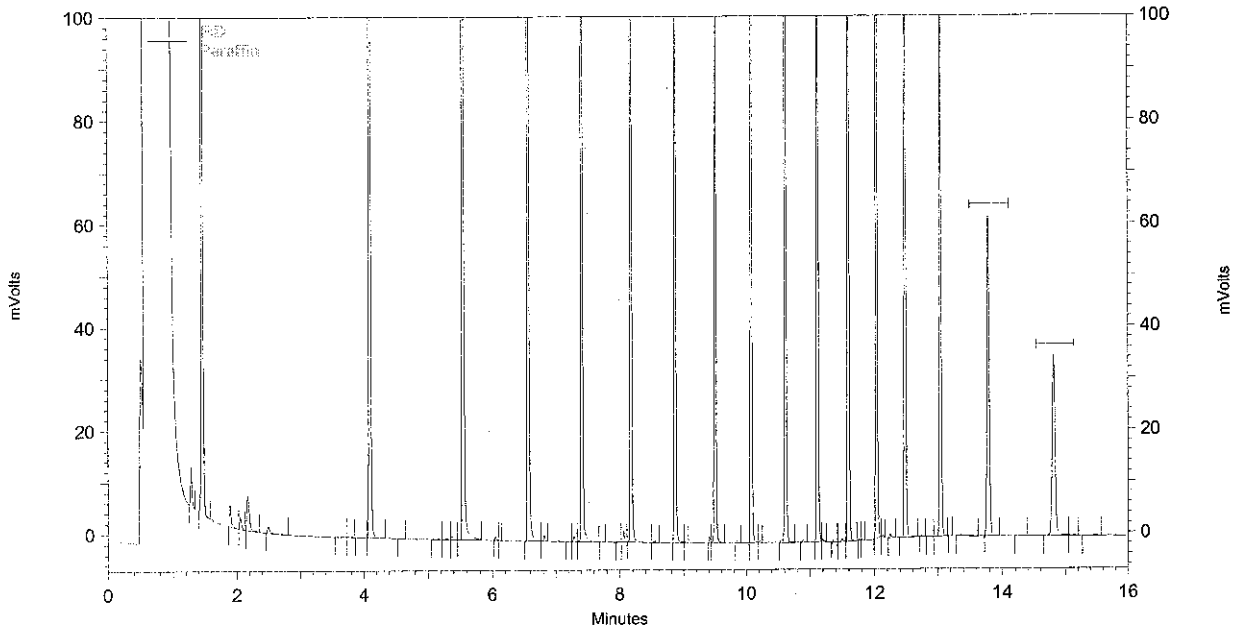
1407156-006A RR

1

JR 7/9/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1472**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\Paraffin 07-08-14 7-03-33 AM.dat
Aquired: 7/8/2014 7:09:18 AM



FID Results

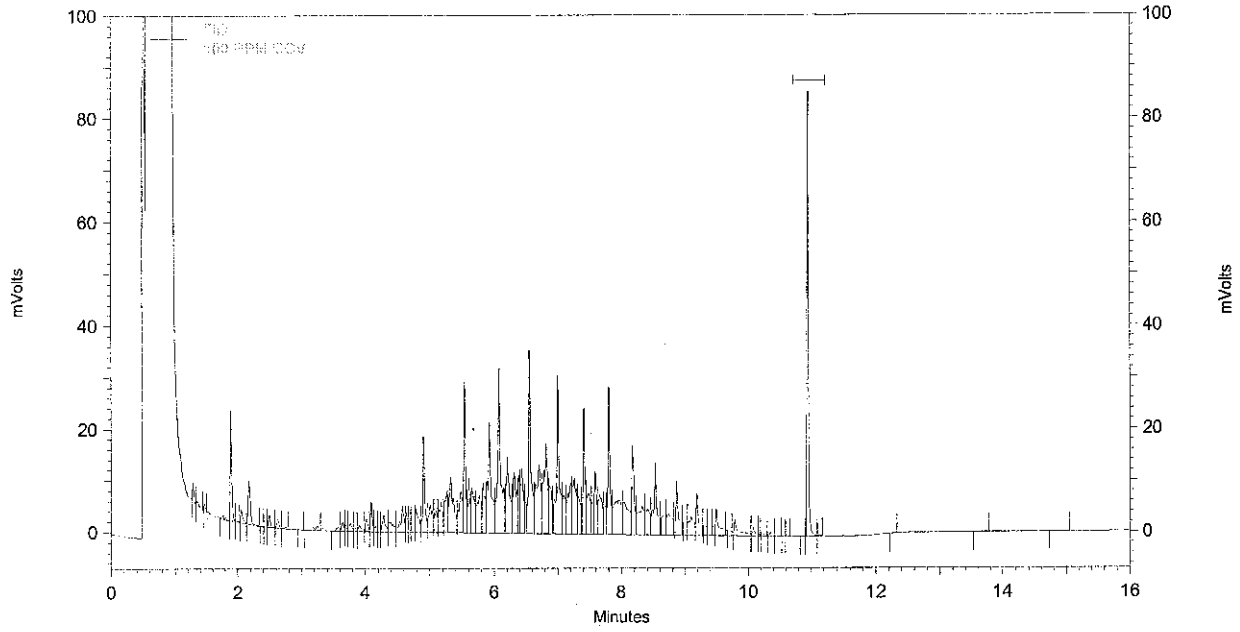
Name	Retention Time	Area	ug/ml
C8	1.461	369670	0.000
C10	4.091	426722	0.000
C12	5.541	403252	0.000
C14	6.555	379640	0.000
C16	7.408	367374	0.000
C18	8.165	351953	0.000
C20	8.859	343944	0.000
C22	9.488	330925	0.000
C24	10.069	320273	0.000
C26	10.613	325414	0.000
C28	11.115	320527	0.000
C30	11.589	314608	0.000
C32	12.032	296926	0.000
C34	12.475	256200	0.000
C36	13.040	198181	0.000
C38	13.787	147607	0.000
C40	14.821	115496	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\100 PPM CCV 07-08-14 7-25-25 AM.dat
Aquired: 7/8/2014 7:30:53 AM



FID Results

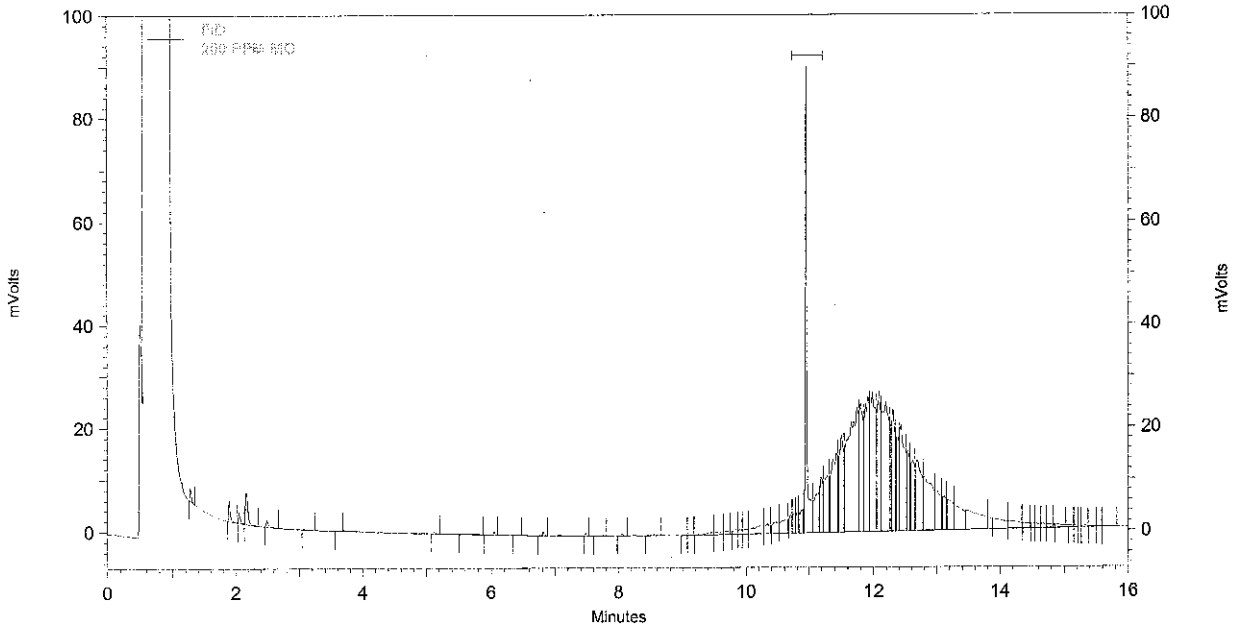
Name	Retention Time	Area	ug/ml
DNOP	10.949	136186	10.372
DRO		1976620	107.843
MRO		2539	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1505**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\200 PPM MO 07-08-14 7-47-02 AM.dat
Aquired: 7/8/2014 7:52:40 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.949	169701	12.846
DRO		77405	5.920
MRO		2067893	213.605

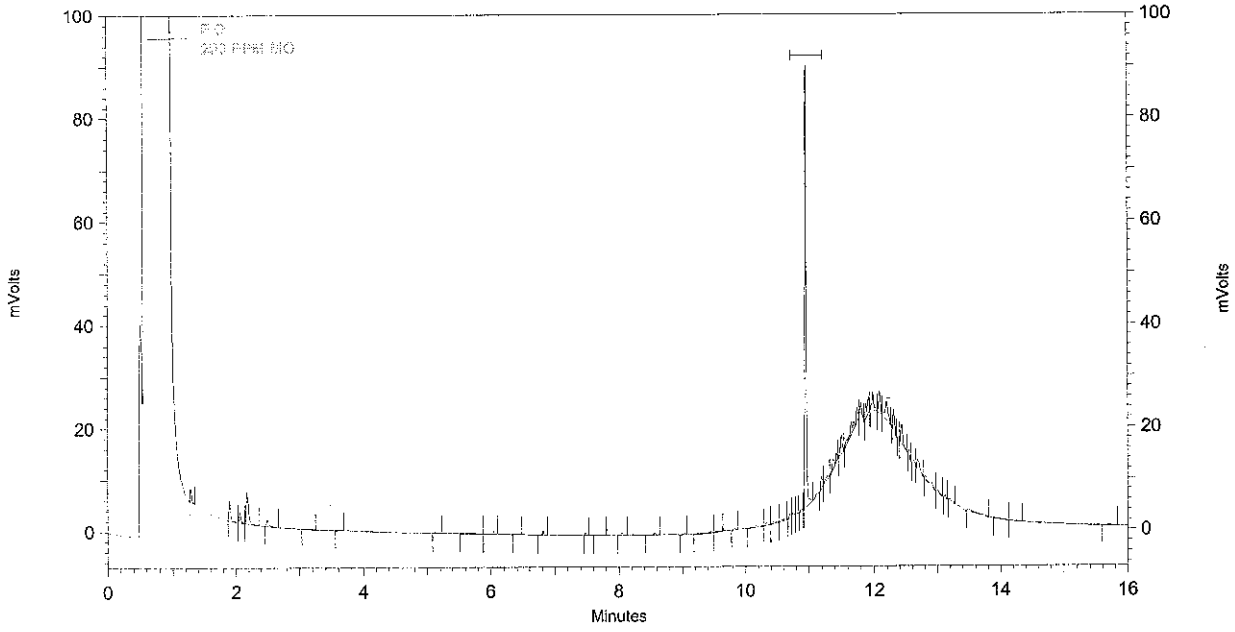
Analyst BV

Reviewed By

12.846
−9.430
3.416
+213.605
217.021
200 = 108.51% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1505**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\200 PPM MO 07-08-14 7-47-02 AM.dat
Aquired: 7/8/2014 7:52:40 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.949	123441	9.430
DRO		15980	2.592
MRO		117536	0.000

Analyst _____

Reviewed By _____

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1407156-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001A <D>.dat	1
6	Unknown	0	1	1407156-001AMS	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001A MS <D>.dat	1
7	Unknown	0	1	1407156-001AMSD	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-001A MSD <D>.dat	1
8	Unknown	0	1	MB-14101	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14101 <D>.dat	1
9	Unknown	0	1	LCS-14101	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14101 <D>.dat	1
10	Unknown	0	1	1407303-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001A <D>.dat	1
11	Unknown	0	1	1407303-001AMS	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001A MS <D>.dat	1
12	Unknown	0	1	1407303-001AMSD	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-001A MSD <D>.dat	1
13	Unknown	0	1	1407303-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-002A <D>.dat	1
14	Unknown	0	1	1407303-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-003A <D>.dat	1
15	Unknown	0	1	1407303-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407303-004A <D>.dat	1
16	Unknown	0	1	1407188-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407188-001A <D>.dat	1
17	Unknown	0	1	1407244-016A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\140744-016A <D>.dat	1
18	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

7/9/14

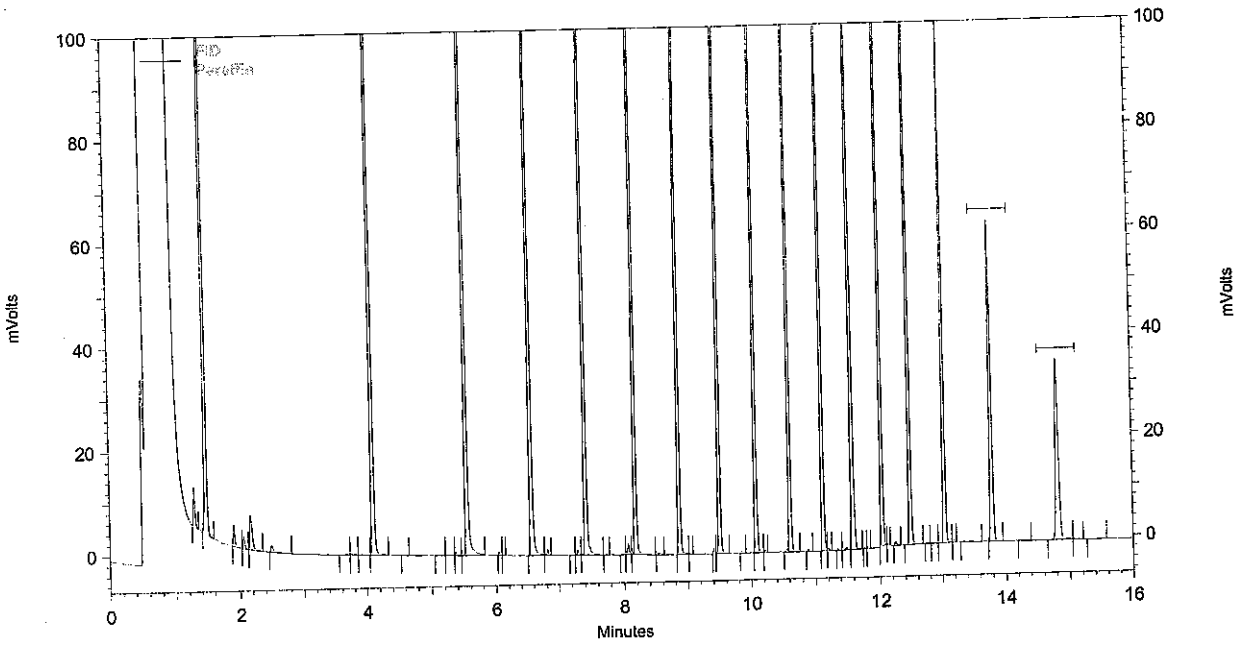
19	Unknown	0	1	1407156-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-002A <D>.dat	1
20	Unknown	0	1	1407156-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-003A <D>.dat	1
21	Unknown	0	1	1407156-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-004A <D>.dat	1
22	Unknown	0	1	1407156-005A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-005A <D>.dat	1
23	Unknown	0	1	1407156-006A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-006A <D>.dat	1
24	Unknown	0	1	1407156-007A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-007A <D>.dat	1
25	Unknown	0	1	1407156-008A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-008A <D>.dat	1
26	Unknown	0	1	1407156-009A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407156-009A <D>.dat	1
27	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

1407156-006A RR

7/9/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1472**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\Paraffin 07-08-14 7-03-33 AM.dat
Aquired: 7/8/2014 7:09:18 AM



FID Results

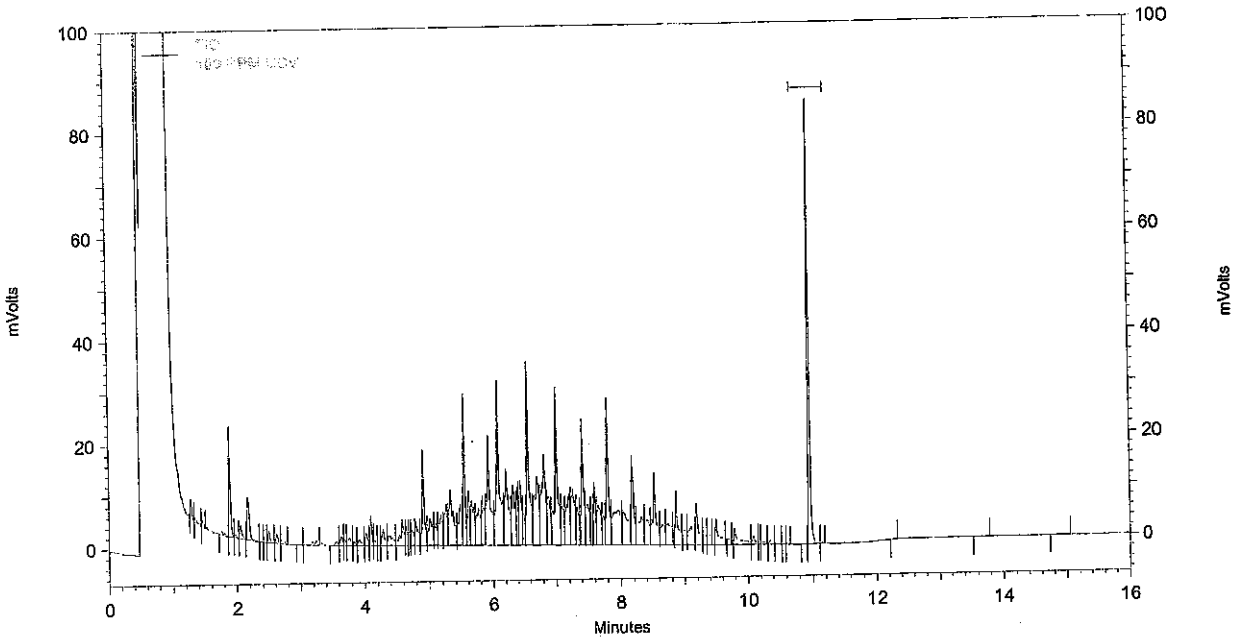
Name	Retention Time	Area	ug/ml
C8	1.461	369670	0.000
C10	4.091	426722	0.000
C12	5.541	403252	0.000
C14	6.555	379640	0.000
C16	7.408	367374	0.000
C18	8.165	351953	0.000
C20	8.859	343944	0.000
C22	9.488	330925	0.000
C24	10.069	320273	0.000
C26	10.613	325414	0.000
C28	11.115	320527	0.000
C30	11.589	314608	0.000
C32	12.032	296926	0.000
C34	12.475	256200	0.000
C36	13.040	198181	0.000
C38	13.787	147607	0.000
C40	14.821	115496	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\100 PPM CCV 07-08-14 7-25-25 AM.dat
Aquired: 7/8/2014 7:30:53 AM



FID Results

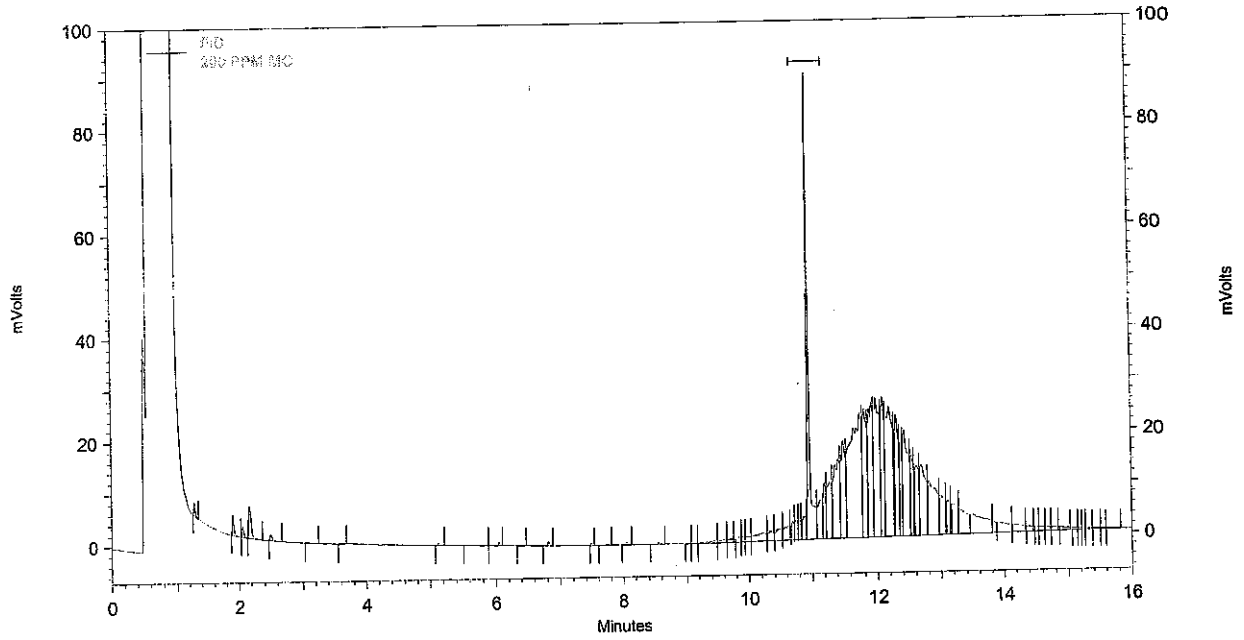
Name	Retention Time	Area	ug/ml
DNOP	10.949	136186	10.372
DRO		1976620	107.843
MRO		2539	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1505**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\200 PPM MO 07-08-14 7-47-02 AM.dat
Aquired: 7/8/2014 7:52:40 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.949	169701	12.846
DRO		77405	5.920
MRO		2067893	213.605

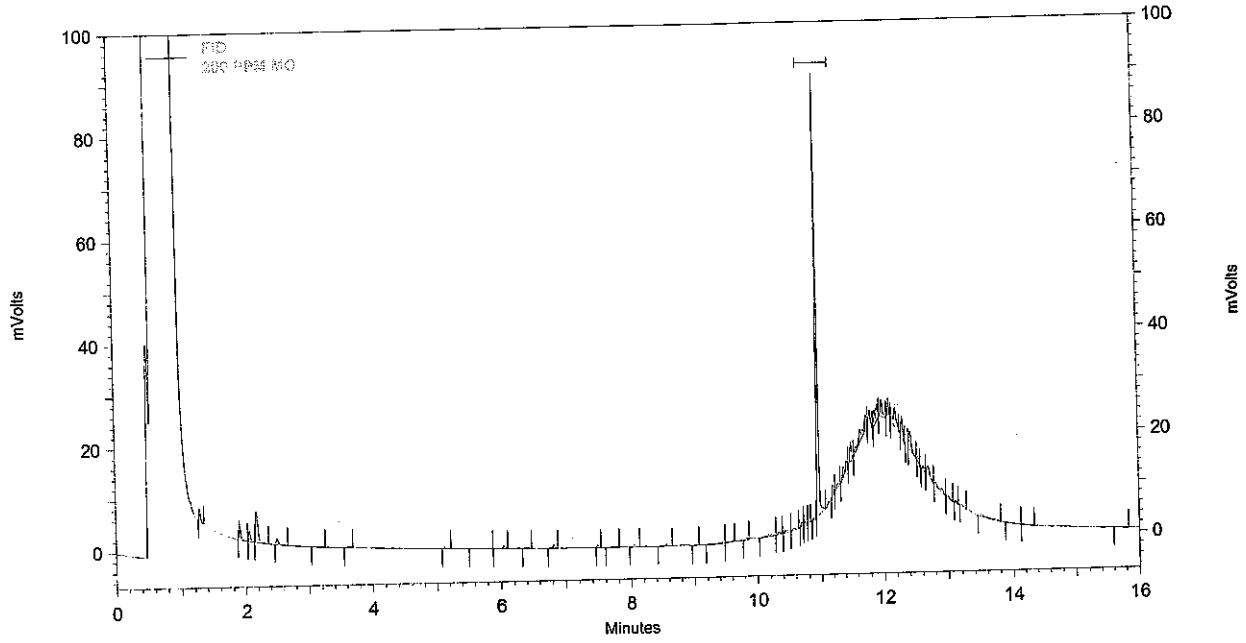
Analyst BV

Reviewed By

12.846
−9.430
3.416
+213.605
217.021 = 108.51 %
200

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1505**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\070814\200 PPM MO 07-08-14 7-47-02 AM.dat
Aquired: 7/8/2014 7:52:40 AM



FID Results

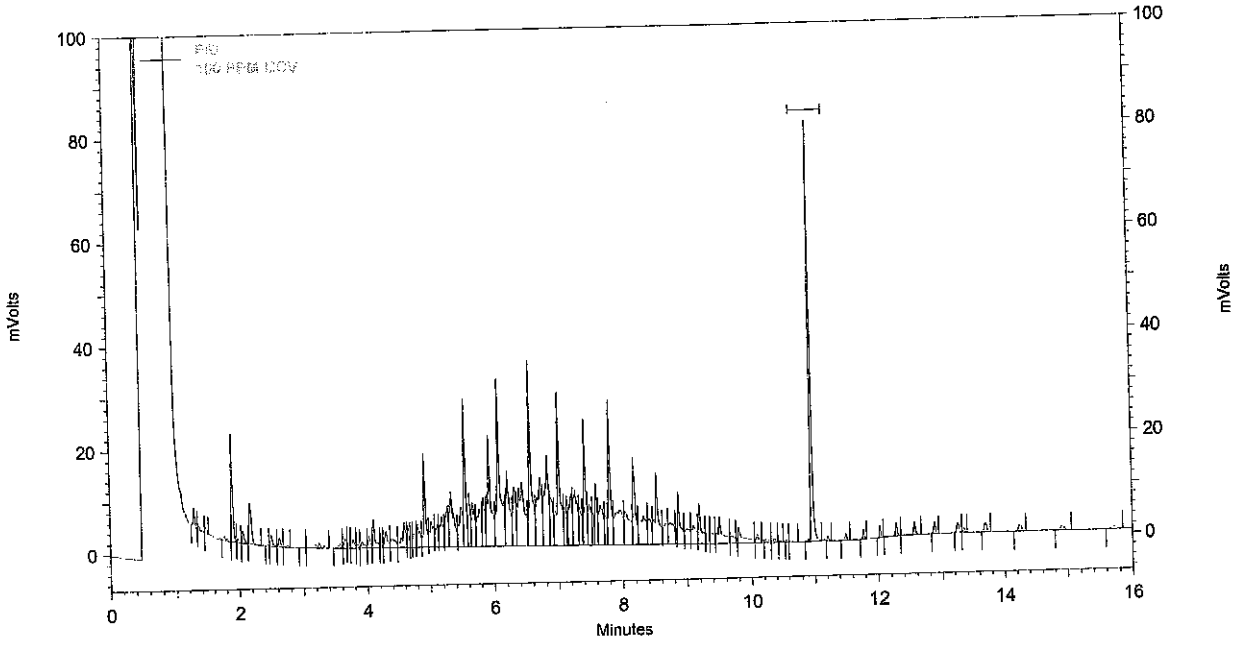
Name	Retention Time	Area	ug/ml
DNOP	10.949	123441	9.430
DRO		15980	2.592
MRO		117536	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1489**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 07-08-14 1-05-05 PM.dat
Aquired: 7/8/2014 1:11:10 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.955	129854	9.904
DRO		1976036	107.812
MRO		42208	0.000

Analyst _____

Reviewed By _____

8015D DRO
Calibration Summary

Instrument: DANTE Date: 6·23·14

Method: 8015D

Calibration Name: 062314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: Brian C. N

QA: Janice Easley

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

Sequence Print

BN 6.23.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 ICV	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1
17	Unknown	0	1	10,000 TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10,000 TEST <D>.dat	1
18	Unknown	0	1	LCS TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS TEST <D>.dat	1

DE

J 6/24/14

BN 6.23.14

19	Unknown	0	1	1,000 TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 TEST <D>.dat	1

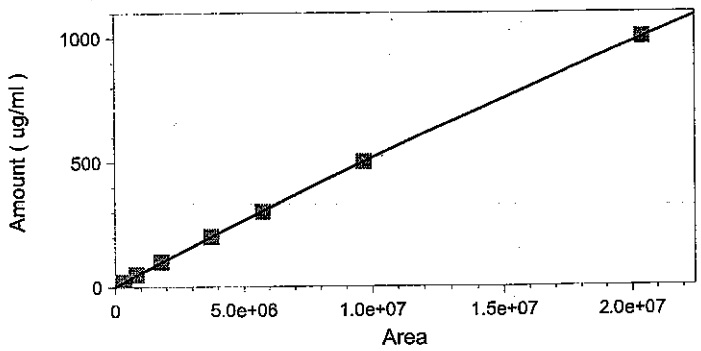
VJR 6/24/14

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:34:48 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 5.92008e-005 RF StDev: 1.03466e-005 RF %RSD: 17.4772
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.62972e-013x^2 + 5.42061e-005x + 1.72559
Goodness of fit (r^2): 0.999955 BW 6.23.14

J 6/24/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49765	139645	336970	842532	1793964
RF	8.037777554 50618e-005	7.16101543198 826e-005	5.935246461109 3e-005	5.934492695826 39e-005	5.5742478667 3534e-005
Last Area Residual	-0.422504	0.709926	0.0384334	2.79069	1.87689
Rep StDev					
Rep %RSD					
Rep 1 Area	49765	139645	336970	842532	1793964
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\4 PPM 06-23-14 10-36-10 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\10 PPM 06-23-14 10-57-41 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 06-23-14 11-19-26 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 06-23-14 11-41-05 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 06-23-14 12-02-49 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/24/2014 8:27:57 AM	6/24/2014 8:28:26 AM	6/24/2014 8:28:48 AM	6/24/2014 8:29:17 AM	6/24/2014 8:29:39 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:34:48 AM
User: System
Instrument: Dante (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	3740313	5745777	9675386	20400764
RF	5.347146081 09e-005	5.22122595429 652e-005	5.167752480366 16e-005	4.901777207951 62e-005
Last Area				
Residual	-0.794519	-4.50018	-1.57321	1.87448
Rep StDev				
Rep %RSD				
Rep 1 Area	3740313	5745777	9675386	20400764
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 06-23-14 12-24-35 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 06-23-14 12-46-36 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 06-23-14 1-08-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 06-23-14 1-30-25 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/24/2014 8:30:04 AM	6/24/2014 8:30:28 AM	6/24/2014 8:30:43 AM	6/24/2014 8:30:56 AM

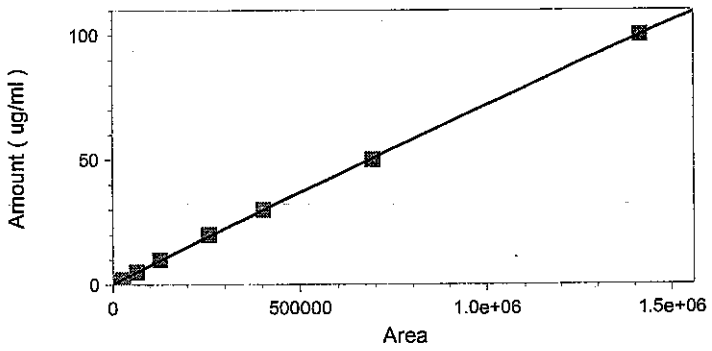
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:36:10 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 7.66254e-005 RF StDev: 3.83617e-006 RF %RSD: 5.00639
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.07472e-012x^2 + 7.47487e-005x + 0.249589
Goodness of fit (r^2): 0.999900 BR 6·23·14

J 6/24/14

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5095	12001	26294	63838	126612
RF	7.850834151 12856e-005	8.33263894675 444e-005	7.606298014756 22e-005	7.832325574109 46e-005	7.8981455154 3298e-005
Last Area					
Residual	-0.230354	-0.146205	-0.212905	-0.00886331	0.335624
Rep StDev					
Rep %RSD					
Rep 1 Area	5095	12001	26294	63838	126612
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\4 PPM 06-23-14 10-36-10 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\10 PPM 06-23-14 10-57-41 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 06-23-14 11-19-26 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 06-23-14 11-41-05 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 06-23-14 12-02-49 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/24/2014 8:27:57 AM	6/24/2014 8:28:26 AM	6/24/2014 8:28:48 AM	6/24/2014 8:29:17 AM	6/24/2014 8:29:39 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:36:10 AM
User: System
Instrument: Dante (Offline)

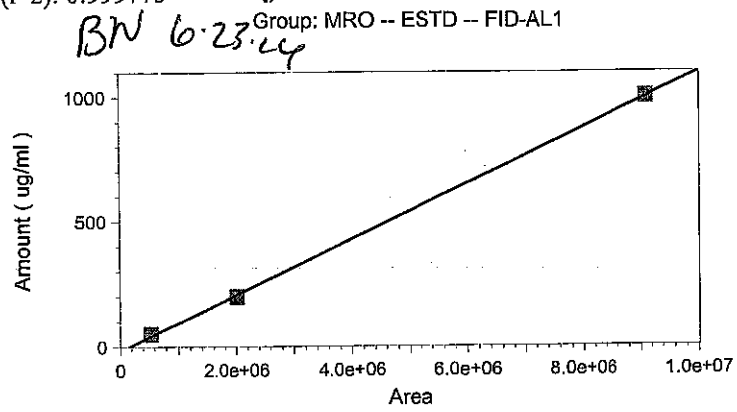
	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	259112	403425	692153	1415674
RF	7.718669918 79959e-005	7.43632645473 136e-005	7.223836348321 83e-005	7.063773156814 35e-005
Last Area Residual	0.588572	0.0953529	-0.514067	0.0928441
Rep StDev				
Rep %RSD				
Rep 1 Area	259112	403425	692153	1415674
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 06-23-14 12-24-35 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 06-23-14 12-46-36 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 06-23-14 1-08-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 06-23-14 1-30-25 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/24/2014 8:30:04 AM	6/24/2014 8:30:28 AM	6/24/2014 8:30:43 AM	6/24/2014 8:30:56 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 11:54:52 AM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000100445 RF StDev: 8.81022e-006 RF %RSD: 8.77117
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000111623x - 17.2190
Goodness of fit (r^2): 0.999775

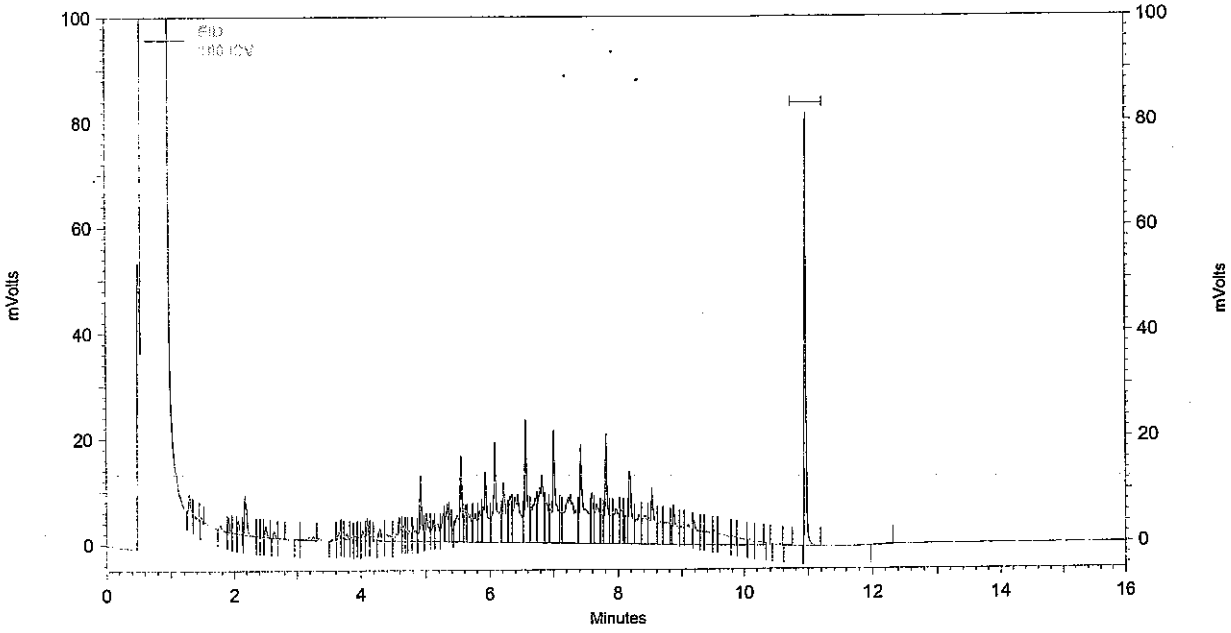
J 6/24/14
BN 6.23.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	540858	2020163	9100182
RF	9.244570663 64924e-005	9.90019122219 346e-005	0.000109887912 131867
Last Area Residual	6.84684	-8.27742	1.43058
Rep StDev			
Rep %RSD			
Rep 1 Area	540858	2020163	9100182
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO 06-23-14 2-13-57 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 06-23-14 2-35-44 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO 06-23-14 2-57-40 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	6/24/2014 8:31:39 AM	6/24/2014 8:32:02 AM	6/24/2014 8:32:20 AM

Instrument: **Dante (Offline)** Vial #: **12** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1499**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\100 ICV 06-23-14 1-52-00 PM.dat
Aquired: 6/23/2014 1:57:50 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.955	126809	9.679
DRO		1683206	92.221
MRO		836	0.000

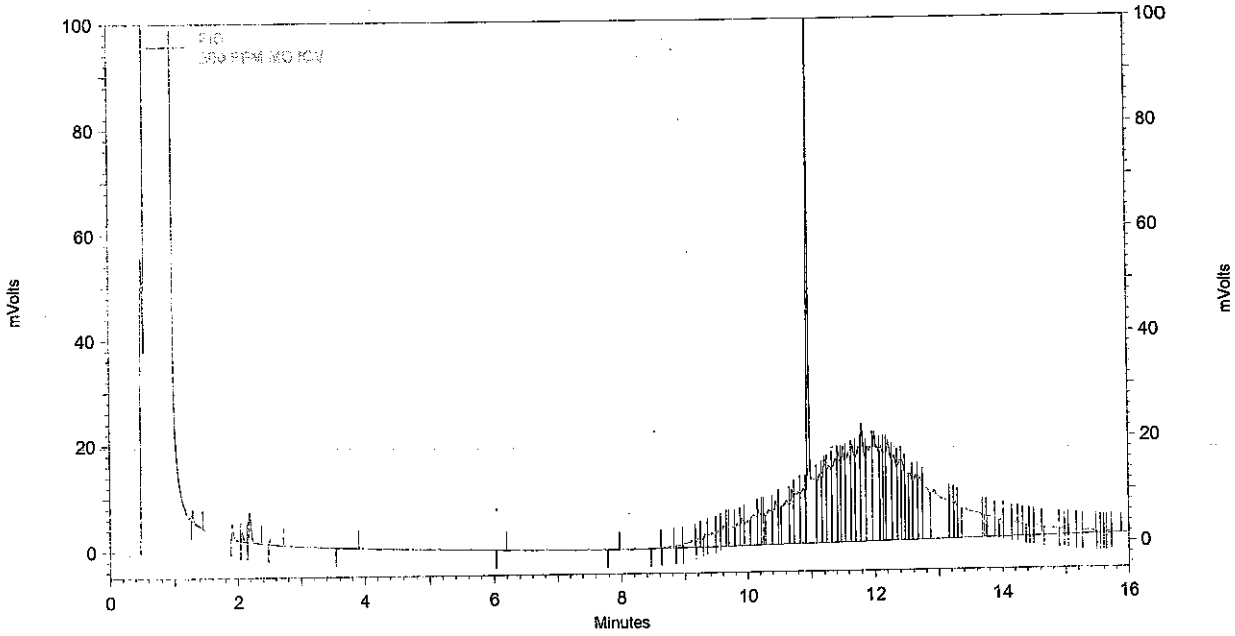
Analyst BN

Reviewed By

±20%

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1503**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\200 PPM MO ICV 06-23-14 3-19-34 PM.dat
Aquired: 6/23/2014 3:25:25 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.960	241957	18.156
DRO		302209	18.083
MRO		2098722	217.046

Analyst BN

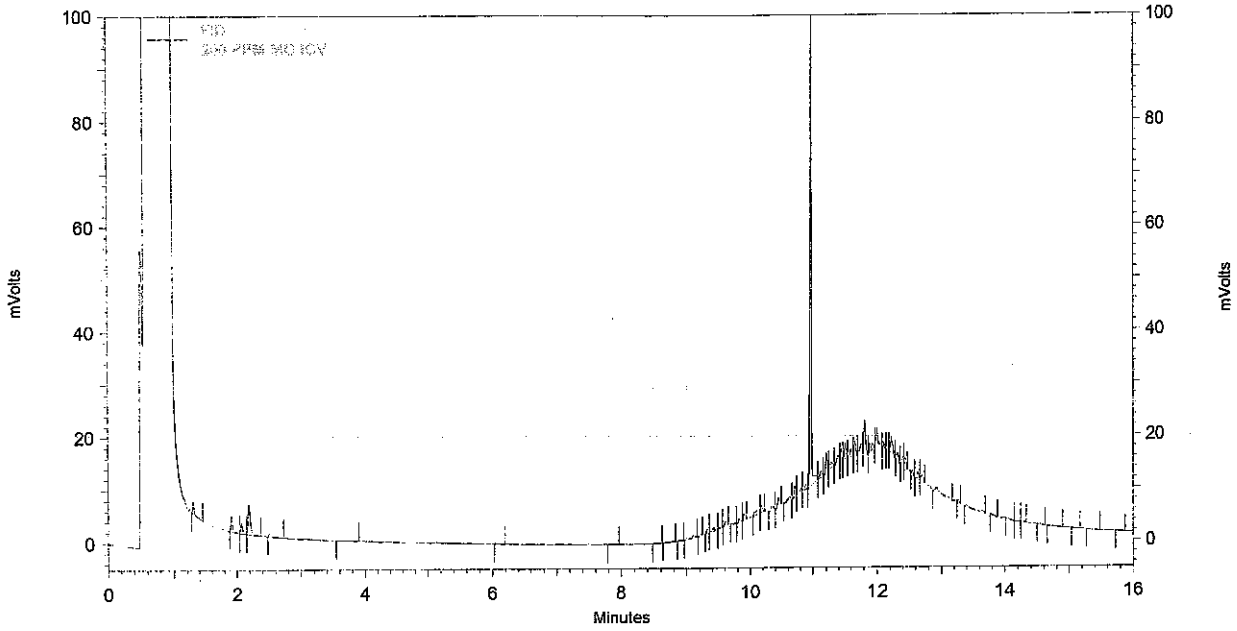
Reviewed By

±20% ✓

18.156
− 11.041
7.115
+217.046
224.161
200 x100
= 112.0805 ✓

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1503**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\200 PPM MO ICV 06-23-14 3-19-34 PM.dat
Aquired: 6/23/2014 3:25:25 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.960	145232	11.041
DRO		29675	3.334
MRO		108907	0.000

Analyst _____

Reviewed By _____

7/11/14

Analytical Report
Lab Order: **1407188**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407188

Lab ID: 1407188-001
Collection Date: 7/3/2014 9:35:00 AM
Client Sample ID: FFOR-CF-0027
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg-dry	1	R19795	7/10/2014 12:25:53 AM
Surr: BFB	109	61.2-137		%REC	1	R19795	7/10/2014 12:25:53 AM

Lab ID: 1407188-002
Collection Date:
Client Sample ID: MEOH BLANK
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R19795	7/10/2014 12:53:46 AM
Surr: BFB	109	61.2-137		%REC	1	R19795	7/10/2014 12:53:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3)	BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ JB 7/8/14

Analyst: RAA

ian Star Workstation - Generic SampleList Wed Jul 09 ...

pleList: C:\VarianWS\070914v.smp

ated: Wed Jul 09 08:45:30 2014
ified: Wed Jul 09 13:53:48 2014

****

Line	Sample Name	Injection Notes
1	rtm	below
	Notes V-18-1994	
2	5mL-rb	below tune @ 9:28
	Notes All injections contain V-52-0468	
3	100ng ccv	below @ 9:56
	Notes V-54-0435	
4	2.5ug gro ccv	below
	Notes V-18-2047	
5	100ng btex lcs	below
	Notes V-11-8033	
6	2.5ug gro lcs	below
	Notes V-18-2036	
7	vsb deli	below tune @ 11:48
	Notes 6/30-->7/9	
8	1406c94-006a	below
	Notes r200-0.5uL PB13945 T,X	
9	1406c94-009a	below
	Notes r1,000-0.1uL PB13945 B,T	
10	1406c94-010a	below
	Notes r2-50uL PB13945 Dilution due to sample matrix	
11	1406c94-011a	below
	Notes r1-100uL PB13945	
12	1406c94-012a	below
	Notes r2-50uL PB13945 Dilution due to sample matrix	
13	1406d88-001a ms	below
	Notes V-18-2036	
14	1406d88-001a msd	below
	Notes V-18-2036	
15	1407139-001a	below
	Notes x1-100uL MeOH GRO	
16	1407139-001a ms	below
	Notes V-18-2036 GRO	
17	1407139-001a msd	below
	Notes V-18-2036 GRO	
18	1407139-002a	below
	Notes x1-100uL MeOH GRO	
19	1407139-003a	below
	Notes x1-100uL MeOH GRO	
20	1407139-004a	below
	Notes x1-100uL MeOH GRO	
21	1407139-005a	below
	Notes x1-100uL MeOH GRO	
22	1407139-006a	below
	Notes x1-100uL MeOH GRO	
23	1407139-007a	below
	Notes x1-100uL MeOH GRO	
24	1407139-008a	below
	Notes x1-100uL MeOH GRO	
25	1407139-009a	below
	Notes x1-100uL MeOH GRO	
26	1407139-010a	below
	Notes x1-100uL MeOH GRO	
27	1407139-011a	below
	Notes x1-100uL MeOH GRO	
28	1407139-012a	below
	Notes x1-100uL MeOH Blk GRO @ 9:39	
29	rtm	below
	Notes V-18-1994	
30	b1	none tune @ 10:34
31	75ng ccv	below @ 11:02
	Notes V-54-0435	
32	2.25ug gro ccv	below
	Notes V-18-2047	
33	vcb2	none
34	1407188-001a	below
	Notes x1-100uL MeOH GRO	

Loaded By: [signature] 7-9-14
1st Review By: [signature] 7-10-14
QA'd By: [signature] 7/11/14

```
36              lcs-14095       below
                Notes   V-11-8033 SoilTCLP
37              mb-14095        below
                Notes   4681 SoilTCLP
38          1407186-001a        below
                Notes   x10-10uL PB14095 SoilTCLP
39         1407186-001ams       below
                Notes   x10 V-11-8033 PB14095 SoilTCLP
40        1407186-001amsd       below
                Notes   x10 V-11-8033 PB14095 SoilTCLP
41              lcs-14109       below
                Notes   V-11-8033
42              mb-14109        below
                Notes   4681
43          1407305-001a        below
                Notes   x1-100uL PB14109
44         1407305-001ams       below
                Notes   V-11-8033 PB14109
45        1407305-001amsd       below
                Notes   V-11-8033 PB14109
46          1407305-002a        below
                Notes   x1-100uL PB14109
47          1407307-001a        below
                Notes   x10-10uL PB14109
48              lcs-14115       below
                Notes   V-11-8033 V_O
49             lcsd-14115       below
                Notes   V-11-8033 V_O
50              mb-14115        below
                Notes   4681 V_O
51          1407250-002a        below
                Notes   x100-1uL V_O
52                    b2        none
53
```

SoilTCLP

@8:20

```
rectory for Data Files: C:\VarianWS\data

      Data File Names: %s %d

eate and update a new RecalcList: c:\varianws\070914v.rcl.
```

Loaded By: 7-9-14
1st Review By: 7-10-14
QA'd By: NB 7/11/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114V GRO Date: RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☒	☐	☐	☒	

8260 annex

Calibration Name: 062914V 8260 annex Date: 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☒	☐	☐	high-rr hits
Acrylonitrile	☒	☐	☐	☐	high-rr hits
Isobutyl alcohol	☐	☒	☐	☐	
1,4-Dioxane	☒	☐	☐	☐	
trans-1,4-Dichloro-2-butene	☒	☐	☐	☐	

Analyst: RA 7-2-14

QA: [illegible] NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): data\2014v\0714v\070914v\gro\2.5ug gro ccv 7-9-2014.SMS Lab Sample ID: 2.5ug gro ccv

Instrument ID: VAL Date Analyzed: 7/9/2014 Time Analyzed: 10:24

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	97788	14.30										
UPPER LIMIT	195576	14.80										
LOWER LIMIT	48894	13.80										
EPA SAMPLE NO												
rtm 7-9-20	100116	14.31										
5mL-rb 7-9	87942	14.30										
2.5ug gro	92859	14.31										
1406d88-00	85473	14.31										
1406d88-00	82061	14.31										
1407139-00	82922	14.31										
1407139-00	81743	14.31										
1407139-00	84514	14.31										
1407139-00	83487	14.31										
1407139-00	85413	14.31										
1407139-00	81295	14.31										
1407139-00	86976	14.31										
1407139-00	80394	14.31										
1407139-00	86791	14.32										
1407139-00	84005	14.31										
1407139-00	87664	14.31										

7/10/14

7/11/14

7/10/2014 10:27

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
1407139-01	88427	14.31										
1407139-01	87393	14.31										
1407139-01	83691	14.31										
rtm 7-9-20	94377	14.31										
2.25ug gro	91440	14.31										
1407188-00	83003	14.31										
1407188-00	89749	14.31										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

RT 7-10-14

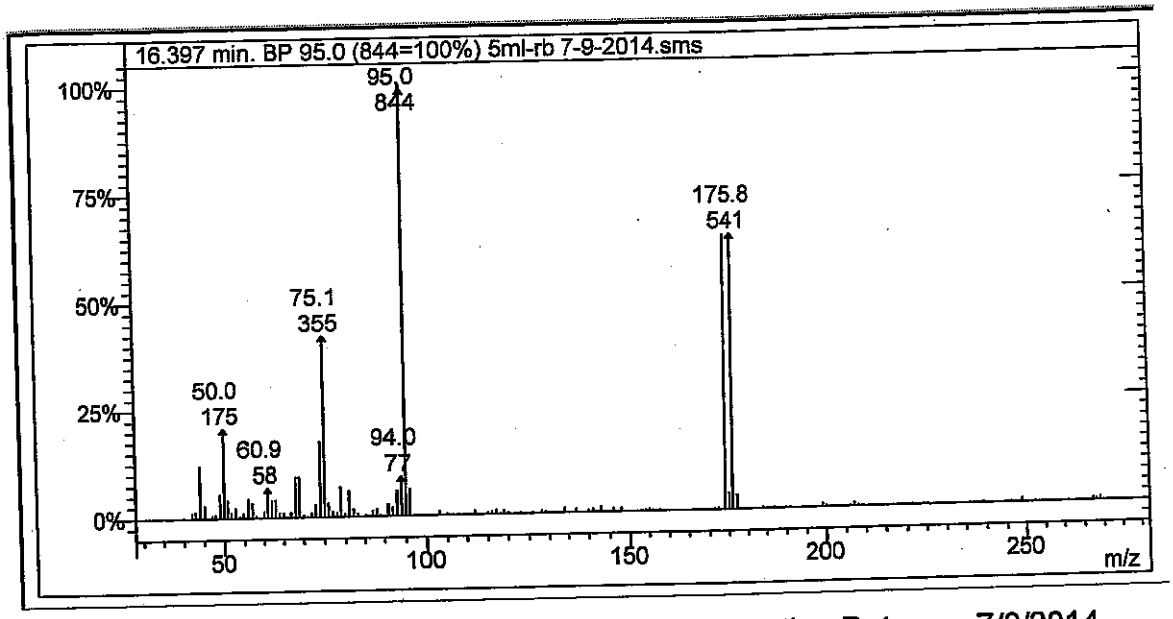
WB 7/11/14

Internal Standard And RT Summary

7/10/2014 10:27

Analyst: RAA

BFB 8260B Report



Lab File ID: 5ml-rb 7-9-2014.sms

Injection Date: 7/9/2014

Injection Time: 9:28

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.73	PASS
75	30-60% of m/z 95	42.06	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.16	PASS
173	<2% of m/z 174	0.00	PASS
174	>50% of m/z 95	63.98	PASS
175	5-9% of m/z 174	5.93	PASS
176	>95% but <101% of m/z 174	100.19	PASS
177	5-9% of m/z 176	5.18	PASS

✓ RB 7/11/14

ft 7.9.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.5ug gro	97788	14.30										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

M 7.10.14

✓ 07/11/14

7/9/2014 10:51

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/9/2014 Time: 10:24

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 7-9-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2743.914	0.100	2.50	2.56	-2.4	20.0	PASS	PASS
BFB	1.001	0.100	50.00	48.11	3.8	30.0	PASS	PASS

AT 7-10-14

JDB 7/11/14

Analyst: RAA

NB 7/8/14

Analytical Report
Lab Order: **1407188**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407188

Lab ID: 1407188-002
Client Sample ID: MEOH BLANK
Collection Date:
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Toluene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Naphthalene	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Acetone	ND	0.75		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Bromobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Bromodichloromethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Bromoform	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Bromomethane	0.019 ND	0.15	J	mg/Kg	1	R19735	7/8/2014 8:29:09 AM
2-Butanone	ND	0.50		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Carbon disulfide	ND	0.50		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Chlorobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Chloroethane	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Chloroform	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Chloromethane	ND	0.15		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Dibromochloromethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Dibromomethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407188
Project: Kirtland AFB

Comment: DUE 07/08/2014

EPA METHOD 8260B: VOLATILES Analyst: **RAA**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
2-Hexanone	ND	0.50		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Isopropylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Methylene chloride	0.0087	0.15	J	mg/Kg	1	R19735	7/8/2014 8:29:09 AM
n-Butylbenzene	ND	0.15		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
n-Propylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Styrene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Vinyl chloride	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Bromochloromethane	ND	0.050		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Vinyl acetate	ND	0.50		mg/Kg	1	R19735	7/8/2014 8:29:09 AM
Surr: Dibromofluoromethane	88.9	70-130		%REC	1	R19735	7/8/2014 8:29:09 AM
Surr: 1,2-Dichloroethane-d4	85.0	70-130		%REC	1	R19735	7/8/2014 8:29:09 AM
Surr: Toluene-d8	93.2	70-130		%REC	1	R19735	7/8/2014 8:29:09 AM
Surr: 4-Bromofluorobenzene	86.3	70-130		%REC	1	R19735	7/8/2014 8:29:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

WB 7/7/14

Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407188**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407188

Lab ID: 1407188-001
Client Sample ID: FFOR-CF-0027
Collection Date: 7/3/2014 9:35:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: RAA
Benzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Toluene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Ethylbenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Xylenes, Total	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Methyl tert-butyl ether (MTBE)	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2,4-Trimethylbenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,3,5-Trimethylbenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2-Dichloroethane (EDC)	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2-Dibromoethane (EDB)	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Naphthalene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Acetone	ND	0.00718		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Bromobenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Bromodichloromethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Bromoform	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Bromomethane	ND	0.00359		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
2-Butanone	ND	0.00718		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Carbon tetrachloride	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Chlorobenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Chloroethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Chloroform	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Chloromethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
2-Chlorotoluene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Carbon disulfide	ND	0.00718		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
4-Chlorotoluene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
cis-1,2-DCE	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
cis-1,3-Dichloropropene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2-Dibromo-3-chloropropane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Dibromochloromethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Dibromomethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,3-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,4-Dichlorobenzene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Dichlorodifluoromethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1-Dichloroethane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1-Dichloroethene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2-Dichloropropane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,3-Dichloropropane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
2,2-Dichloropropane	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1-Dichloropropene	ND	0.00144		mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407188

Comment: DUE 07/08/2014

METHOD 8260B/5035LOW: VOLATILES

Analyst: **RAA**

Hexachlorobutadiene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Isopropylbenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
4-Isopropyltoluene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Methylene chloride	ND	0.00359	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
n-Butylbenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
2-Hexanone	ND	0.00718	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
n-Propylbenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
sec-Butylbenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Styrene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
4-Methyl-2-pentanone	ND	0.00718	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
tert-Butylbenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1,1,2-Tetrachloroethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1,2,2-Tetrachloroethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Tetrachloroethene (PCE)	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
trans-1,2-DCE	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
trans-1,3-Dichloropropene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2,3-Trichlorobenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2,4-Trichlorobenzene	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1,1-Trichloroethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,1,2-Trichloroethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Trichloroethene (TCE)	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Trichlorofluoromethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
1,2,3-Trichloropropane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Vinyl chloride	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Vinyl acetate	ND	0.00718	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Bromochloromethane	ND	0.00144	mg/Kg-dry	1	14065	7/3/2014 2:42:58 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%REC	1	14065	7/3/2014 2:42:58 PM
Surr: 4-Bromofluorobenzene	95.7	65.3-135	%REC	1	14065	7/3/2014 2:42:58 PM
Surr: Dibromofluoromethane	89.5	70-130	%REC	1	14065	7/3/2014 2:42:58 PM
Surr: Toluene-d8	89.6	70-130	%REC	1	14065	7/3/2014 2:42:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RPD is greater than RSDlimit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070514v 8260 crv\100ng icv 7-5-2014 **Acquisition Date:** 7/5/2014 21:35

Comment: V-54-0434

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Cal. Sample Dates: First: 7/5/2014 20:12 **Last:** 7/5/2014 20:12

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	105.49	ng	100.00	105 %	70 - 130	PASS
2)	Chloromethane	111.52	ng	100.00	112 %	70 - 130	PASS
3)	Vinyl chloride	98.62	ng	100.00	99 %	80 - 120	PASS
4)	Chloroethane	101.17	ng	100.00	101 %	70 - 130	PASS
5)	Bromomethane	114.64	ng	100.00	115 %	70 - 130	PASS
6)	Trichlorofluoromethane	99.65	ng	100.00	100 %	70 - 130	PASS
7)	1,1-Dichloroethene	101.64	ng	100.00	102 %	80 - 120	PASS
8)	Acetone	255.43	ng	200.00	128 %	60 - 140	PASS
9)	Carbon disulfide	220.45	ng	200.00	110 %	60 - 140	PASS
10)	Iodomethane	181.02	ng	200.00	91 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.48	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	208.51	ng	200.00	104 %	60 - 140	PASS
13)	tert-Butyl alcohol	1959.27	ng	2000.00	98 %	60 - 140	PASS
14)	trans-1,2-DCE	104.70	ng	100.00	105 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	214.47	ng	200.00	107 %	60 - 140	PASS
16)	1;1-Dichloroethane	100.33	ng	100.00	100 %	70 - 130	PASS
17)	Methylene Chloride	103.25	ng	100.00	103 %	70 - 130	PASS
18)	Vinyl Acetate	175.16	ng	200.00	88 %	60 - 140	PASS
19)	2,2-Dichloropropane	100.12	ng	100.00	100 %	70 - 130	PASS
20)	2-Butanone	209.15	ng	200.00	105 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	103.64	ng	100.00	104 %	70 - 130	PASS
23)	tert-Amyl methyl ether	205.95	ng	200.00	103 %	60 - 140	PASS
24)	1,1-Dichloropropene	101.42	ng	100.00	101 %	70 - 130	PASS
25)	Carbon Tetrachloride	100.66	ng	100.00	101 %	70 - 130	PASS
26)	cis-1,2-DCE	100.02	ng	100.00	100 %	70 - 130	PASS
27)	Benzene	99.43	ng	100.00	99 %	70 - 130	PASS
28)	Chloroform	101.70	ng	100.00	102 %	80 - 120	PASS
29)	Bromochloromethane	105.64	ng	100.00	106 %	70 - 130	PASS
30)	Trichloroethene (TCE)	106.26	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	103.24	ng	100.00	103 %	70 - 130	PASS
34)	1,2-Dichloropropane	101.65	ng	100.00	102 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	206.79	ng	200.00	103 %	60 - 140	PASS
37)	Toluene	102.52	ng	100.00	103 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	203.82	ng	200.00	102 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	107.24	ng	100.00	107 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	93.17	ng	100.00	93 %	70 - 130	PASS
41)	2-Hexanone	205.07	ng	200.00	103 %	60 - 140	PASS

RT 7-7-14

✓ NB 7/8/14

Analyst: RAA

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	101.45	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	103.13	ng	100.00	103 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.97	ng	100.00	101 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.16	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.16	ng	100.00	104 %	80 - 120	PASS
47)	mp-Xylenes	207.82	ng	200.00	104 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	100.60	ng	100.00	101 %	70 - 130	PASS
50)	Chlorobenzene	101.36	ng	100.00	101 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	99.97	ng	100.00	100 %	70 - 130	PASS
52)	o-Xylene	101.84	ng	100.00	102 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	102.94	ng	100.00	103 %	70 - 130	PASS
54)	Dibromochloromethane	107.00	ng	100.00	107 %	70 - 130	PASS
55)	Isopropylbenzene	102.31	ng	100.00	102 %	70 - 130	PASS
56)	Styrene	101.36	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	105.59	ng	100.00	106 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	105.16	ng	100.00	105 %	70 - 130	PASS
59)	tert-Butylbenzene	103.37	ng	100.00	103 %	70 - 130	PASS
60)	2-Chlorotoluene	108.72	ng	100.00	109 %	70 - 130	PASS
62)	sec-Butylbenzene	81.73	ng	100.00	82 %	70 - 130	PASS
63)	4-Chlorotoluene	100.02	ng	100.00	100 %	70 - 130	PASS
64)	Bromobenzene	112.00	ng	100.00	112 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	104.42	ng	100.00	104 %	70 - 130	PASS
66)	4-Isopropyltoluene	104.79	ng	100.00	105 %	70 - 130	PASS
67)	Bromoform	98.07	ng	100.00	98 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	101.84	ng	100.00	102 %	70 - 130	PASS
69)	n-Butylbenzene	102.13	ng	100.00	102 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.42	ng	100.00	97 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	105.61	ng	100.00	106 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	100.89	ng	100.00	101 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	104.20	ng	100.00	104 %	70 - 130	PASS
75)	Hexachlorobutadiene	106.73	ng	100.00	107 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	100.70	ng	100.00	101 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	105.63	ng	100.00	106 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	104.06	ng	100.00	104 %	70 - 130	PASS
79)	Naphthalene	95.73	ng	100.00	96 %	70 - 130	PASS
80)	2-Methylnaphthalene	98.10	ng	100.00	98 %	60 - 140	PASS
81)	1-Methylnaphthalene	94.51	ng	100.00	95 %	60 - 140	PASS

* indicates Internal Standard.

RAA 7-7-14

JB 7/8/14

Analyst: RAA

arian Star Workstation - Generic SampleList Tue Jul 08 09:13:11 2014

ampleList: C:\VarianWS\070714v.smp

reated: Mon Jul 07 08:17:38 2014
odified: Tue Jul 08 08:56:50 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	5mL-rb	none tune @ 9:04
3	100ng ccv	below
	Notes V-54-0435	@9:32
4	100ng lcs	below
	Notes V-11-8033	
5	lcs-13945	below
	Notes V-11-8033	
6	mb-13945	below
	Notes 4681	
7	vcb	none tune @ 11:24
8	1406d72-006a	below
	Notes x1-100uL MeOH	
9	1406d72-006a ms	below
	Notes V-11-8033 MeOH	
10	1406d72-006a msd	below
	Notes V-11-8033 MeOH	
11	1406d72-007a	below
	Notes x1-100uL MeOH	
12	1406d72-008a	below
	Notes x1-100uL MeOH	
13	1406d72-009a	below
	Notes x1-100uL MeOH	
14	1406d72-010a	below
	Notes x1-100uL MeOH	
15	1406d72-011a	below
	Notes x1-100uL MeOH	
16	1406d72-012a	below
	Notes x1-100uL MeOH	
17	1406d72-013a	below
	Notes x1-100uL MeOH Blk	
18	1406d79-001a	below
	Notes x1-100uL MeOH	
19	1406d79-002a	below
	Notes x1-100uL MeOH	
20	1406d79-003a	below
	Notes x1-100uL MeOH	
21	1406d79-004a	below
	Notes x1-100uL MeOH Blk	
22	1406c94-013a	below
	Notes x50-2uL PB13945	
23	1406c94-014a	below
	Notes x200-0.5uL PB13945	r500 - 124TMB
24	1406c94-001a	below
	Notes x100-1uL PB13945	MS/D Not analyzed due to high dilution/sample matrix MA 7-8-14
25	1406c94-002a	below
	Notes x100-1uL PB13945	r1
26	1406c94-003a	below
	Notes x100-1uL PB13945	
27	1406c94-004a	below
	Notes x20-5uL PB13945	r1
28	1406c94-005a	below
	Notes x100-1uL PB13945	@ 9:10 r1000-T
29	rtm	below
	Notes V-18-1994	
30	b2	none tune @ 10:14
31	75ng ccv	below
	Notes V-54-0435	@ 10:42
32	2.5ug gro ccv	below
	Notes V-18-2047	J rr all GRO data
33	2.5ug gro lcs	below
	Notes V-18-2036	
34	1406d88-001a ms	below
	Notes V-18-2036 MeOH GRO	
35	1406d88-001a msd	below

Loaded By: RT 7-7-14
1st Review By: MA 7-8-14
QA'd By: ✓ NB 7/8/14

37	1407139-001a	below	
	Notes	x1-100uL MeOH GRO	
38	1407139-001a ms	below	
	Notes	V-18-2036 MeOH GRO	✓✓
39	1407139-001a msd	below	
	Notes	V-18-2036 MeOH GRO	✓✓
40	1407139-002a	below	
	Notes	x1-100uL MeOH GRO	
41	1407139-003a	below	
	Notes	x1-100uL MeOH GRO	
42	1407139-004a	below	
	Notes	x1-100uL MeOH GRO	
43	1407139-005a	below	
	Notes	x1-100uL MeOH GRO	
44	1407139-006a	below	
	Notes	x1-100uL MeOH GRO	
45	1407139-007a	below	
	Notes	x1-100uL MeOH GRO	
46	1407139-008a	below	
	Notes	x1-100uL MeOH GRO	
47	1407139-009a	below	
	Notes	x1-100uL MeOH GRO	
48	1407139-010a	below	
	Notes	x1-100uL MeOH GRO	
49	1407139-011a	below	
	Notes	x1-100uL MeOH GRO	
50	1407139-012a	below	
	Notes	x1-100uL MeOH Blk 8260,GRO	
51	1407188-001a	below	
	Notes	x1-100uL MeOH GRO	
52	1407188-002a	below	
	Notes	x1-100uL MeOH Blk 8260,GRO	
53	1406c94-014a	below	
	Notes	r500-0.2uL 1,2,4-TMB PB13945	
54	1406c94-006a	below	
	Notes	x200-0.5uL PB13945	r20
55	1406c94-007a	below	
	Notes	x200-0.5uL PB13945	r10
56	1406c94-008a	below	
	Notes	x100-1uL PB13945	r500-B,T
57		0 10:11	

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070714v.rcl.

Loaded By: 7-7-14
1st Review By: 7-8-14
QA'd By: JB 7/8/14

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070114v GRO **Date:** RA 7-1-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	X	☐	☐	X	

8260 annex

Calibration Name: 062914v 8260 annex **Date:** 6-29-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	X	☐	☐	high-rr hits
Acrylonitrile	X	☐	☐	☐	
Isobutyl alcohol	☐	X	☐	☐	high-rr hits
1,4-Dioxane	X	☐	☐	☐	
trans-1,4-Dichloro-2-butene	X	☐	☐	☐	

Analyst: RA 7-2-14

QA: NB 7/3/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0714v\070714v\100ng ccv 7-7-2014.SMS Lab Sample ID: 100ng ccv

Instrument ID: VAL Date Analyzed: 7/7/2014 Time Analyzed: 09:32

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	66442	7.99	97545	14.30	54375	17.91						
UPPER LIMIT	132884	8.49	195090	14.80	108750	18.41						
LOWER LIMIT	33221	7.49	48773	13.80	27188	17.41						
EPA SAMPLE NO												
b1 7-7-201	73960	7.99	101198	14.31	56110	17.91						
5mL-rb 7-7	66412	7.99	93993	14.31	51444	17.91						
100ng lcs	70986	7.99	98430	14.30	54849	17.91						
lcs-13945	60270	7.99	88325	14.31	56593	17.91						
mb-13945 7	69594	7.99	89241	14.31	56548	17.91						
vcb 7-7-20	69007	7.99	97238	14.30	53180	17.91						
1406d72-00	68935	7.99	97791	14.31	58586	17.91						
1406d72-00	66019	8.00	93729	14.31	58299	17.92						
1406d72-00	64446	8.00	90000	14.31	57722	17.92						
1406d72-00	65680	8.00	92674	14.32	59394	17.92						
1406d72-00	64624	8.00	91037	14.31	60810	17.91						
1406d72-00	63744	8.00	84664	14.31	60931	17.92						
1406d72-01	66006	8.00	90131	14.32	61202	17.92						
1406d72-01	66683	8.00	92341	14.31	59756	17.92						
1406d72-01	65939	8.00	93374	14.31	59402	17.92						
1406d72-01	65491	8.00	90231	14.31	60255	17.92						

RA 7-9-14

JB 7/8/14

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1406d79-00	64636	8.00	89686	14.32	61377	17.92						
1406d79-00	66198	8.00	90710	14.32	57854	17.92						
1406d79-00	64760	8.01	91943	14.32	61285	17.92						
1406d79-00	64795	8.00	93801	14.32	59365	17.92						
1406c94-01	75147	8.01	103225	14.31	56566	17.92						
1406c94-01	65008	8.01	98224	14.31	56006 D	17.92 D						
1406c94-00	72640	8.01	101196	14.31	54403	17.92						
1406c94-00	65145	8.00	95998	14.31	54529	17.92						
1406c94-00	64682	8.01	102102	14.31	55408	17.92						
1406c94-00	67916	8.01	98779	14.32	53823	17.92						
1406c94-00	77463	8.01	101054	14.31	55711	17.91						
rtm 7-7-20	65078	8.00	92550	14.31	52066	17.92						
b2 7-7-201	64063	8.00	92400	14.31	50045	17.92						
75ng ccv 7	66738	8.00	97127	14.31	54832	17.92						
2.5ug gro	64640	8.00	93604	14.31	52021	17.91						
2.5ug gro	70282	8.00	97558	14.31	53107	17.92						
1406d88-00	61483	8.00	88254	14.32	59009	17.92						
1406d88-00	69110	8.00	93580	14.32	58656	17.92						
vcb 7-8-20	67355	8.00	94734	14.31	54397	17.92						
1407139-00	61890	7.99	90416	14.31	57715	17.91						
1407139-00	68890	8.00	94026	14.32	60897	17.92						
1407139-00	64702	8.00	85043	14.31	57050	17.92						
1407139-00	62755	8.00	87722	14.32	60392	17.92						
1407139-00	65758	8.00	87787	14.32	56881	17.92						
1407139-00	61743	7.99	84668	14.31	57681	17.92						
1407139-00	66346	8.00	93262	14.32	58118	17.92						
1407139-00	65121	8.00	90983	14.31	58853	17.92						
1407139-00	64338	8.00	91499	14.32	59024	17.92						
1407139-00	65999	7.99	89816	14.31	61298	17.91						
1407139-00	66450	7.99	89978	14.31	57352	17.91						
1407139-01	61970	7.99	84836	14.31	55524	17.91						
1407139-01	65756	7.99	91188	14.31	59184	17.91						
1407139-01	65464	7.99	89212	14.31	56591	17.91						
1407188-00	64158	7.99	84154	14.31	56160	17.91						

RA 7.8.14

7/08/14

7/8/2014 11:09

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1407188-00	64477	7.99	90395	14.31	58364	17.91						
1406c94-01	71685	8.00	98600	14.31	58048	17.91						
1406c94-00	66675	7.99	97094	14.31	52784	17.91						
1406c94-00	67151	8.00	96622	14.31	54427	17.91						
1406c94-00	67228	8.00	98276	14.31	53523	17.91						

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

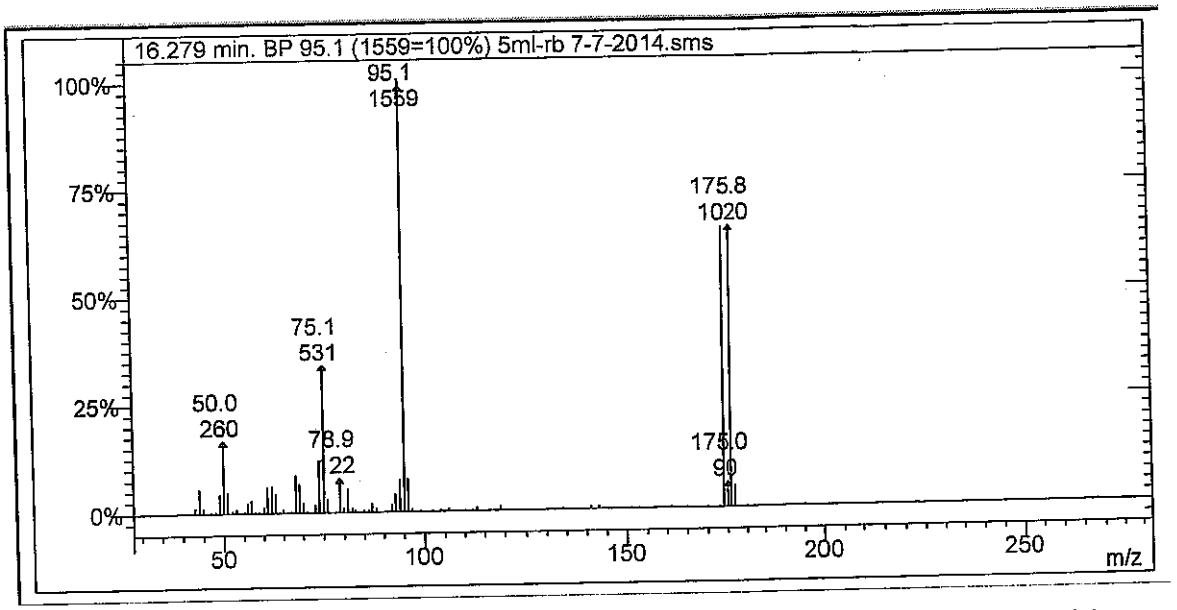
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7-8-14

NB 7/8/14

Analyst: RAA

BFB 8260B Report



Lab File ID: 5ml-rb 7-7-2014.sms

Injection Date: 7/7/2014

Injection Time: 9:04

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	16.68	PASS
75	30-60% of m/z 95	34.06	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.57	PASS
173	<2% of m/z 174	0.39	PASS
174	>50% of m/z 95	65.11	PASS
175	5-9% of m/z 174	8.87	PASS
176	>95% but <101% of m/z 174	100.49	PASS
177	5-9% of m/z 176	7.35	PASS

7/8/14

7-7-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): lata\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 7/5/2014 Time Analyzed: 19:16

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	64859	7.99	95353	14.31	53913	17.91						
UPPER LIMIT	129718	8.49	190706	14.81	107826	18.41						
LOWER LIMIT	32430	7.49	47677	13.81	26957	17.41						
EPA SAMPLE NO												
100ng ccv	66442	7.99	97545	14.30	54375	17.91						

IS1 = Pentafluorobenzene

IS2 = Benzene-d5-, chloro-

IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

MA 7.7.14

JDB 7/8/14

Analyst: RAA

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/7/2014 Time: 9:32

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/5/2014 7/5/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:12 20:12

Initial Calibration File: H:\Val\Data\2014v\0714v\070514v 8260 crv\100ng crv 7-5-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 7-7-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.549	0.100	100.00	123.63	-23.6	30.0	PASS	PASS
Chloromethane	0.791	0.100	100.00	120.51	-20.5	30.0	PASS	PASS
Vinyl chloride	2.038	0.100	100.00	119.08	-19.1	20.0	PASS	PASS
Chloroethane	0.291	0.100	100.00	115.02	-15.0	30.0	PASS	PASS
Bromomethane	1.238	0.100	100.00	114.25	-14.3	30.0	PASS	PASS
Trichlorofluoromethane	0.925	0.100	100.00	107.55	-7.6	30.0	PASS	PASS
1,1-Dichloroethene	1.364	0.100	100.00	113.73	-13.7	20.0	PASS	PASS
Acetone	0.484	0.100	200.00	155.30	22.4	40.0	PASS	PASS
Carbon disulfide	1.165	0.100	200.00	224.79	-12.4	40.0	PASS	PASS
Iodomethane	0.812	0.100	200.00	180.42	9.8	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.417	0.100	200.00	205.88	-2.9	30.0	PASS	PASS
Isopropyl ether	1.682	0.100	200.00	215.44	-7.7	40.0	PASS	PASS
tert-Butyl alcohol	0.267	0.100	2000.00	1512.69	24.4	40.0	PASS	PASS
trans-1,2-DCE	1.535	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
tert-Butyl ethyl ether	3.163	0.100	200.00	223.73	-11.9	40.0	PASS	PASS
1,1-Dichloroethane	1.629	0.100	100.00	107.11	-7.1	30.0	PASS	PASS
Methylene Chloride	1.695	0.100	100.00	109.10	-9.1	30.0	PASS	PASS
Vinyl Acetate	2.283	0.100	200.00	247.07	-23.5	40.0	PASS	PASS
2,2-Dichloropropane	0.976	0.100	100.00	117.20	-17.2	30.0	PASS	PASS
2-Butanone	0.610	0.100	200.00	151.58	24.2	40.0	PASS	PASS
1,1,1-Trichloroethane	1.627	0.100	100.00	108.67	-8.7	30.0	PASS	PASS
tert-Amyl methyl ether	1.534	0.100	200.00	209.07	-4.5	40.0	PASS	PASS
1,1-Dichloropropene	0.771	0.100	100.00	114.35	-14.3	30.0	PASS	PASS
Carbon Tetrachloride	3.435	0.100	100.00	108.24	-8.2	30.0	PASS	PASS
cis-1,2-DCE	2.016	0.100	100.00	107.01	-7.0	30.0	PASS	PASS
Benzene	1.928	0.100	100.00	108.85	-8.8	30.0	PASS	PASS
Chloroform	1.268	0.100	100.00	106.46	-6.5	20.0	PASS	PASS
Bromochloromethane	0.483	0.100	100.00	112.77	-12.8	30.0	PASS	PASS
Trichloroethene (TCE)	1.189	0.100	100.00	101.83	-1.8	30.0	PASS	PASS
Dibromofluoromethane	1.539	0.100	50.00	45.77	8.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.513	0.100	50.00	47.02	6.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.740	0.100	100.00	104.74	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	1.946	0.100	100.00	103.52	-3.5	20.0	PASS	PASS
4-Methyl-2-pentanone	2.000	0.100	200.00	185.01	7.5	40.0	PASS	PASS
Toluene-d8	1.753	0.100	50.00	46.24	7.5	30.0	PASS	PASS

7/7/2014 10:02

Analyst: RAA

100ng ccv 7-7-2014.sms

7-7-14

7/8/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.715	0.100	100.00	106.71	-6.7	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.732	0.100	200.00	127.89	36.1	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.357	0.100	100.00	113.62	-13.6	30.0	PASS	PASS
cis-1,3-dichloropropene	2.197	0.100	100.00	104.89	-4.9	30.0	PASS	PASS
2-Hexanone	0.845	0.100	200.00	159.63	20.2	40.0	PASS	PASS
Bromodichloromethane	2.543	0.100	100.00	103.59	-3.6	30.0	PASS	PASS
Dibromomethane	1.192	0.100	100.00	103.54	-3.5	30.0	PASS	PASS
1,3-Dichloropropane	1.545	0.100	100.00	103.38	-3.4	30.0	PASS	PASS
trans-1,3-dichloropropene	0.836	0.100	100.00	103.71	-3.7	30.0	PASS	PASS
Ethylbenzene	3.068	0.100	100.00	107.47	-7.5	20.0	PASS	PASS
mp-Xylenes	2.810	0.100	200.00	211.28	-5.6	30.0	PASS	PASS
1,1,2-Trichloroethane	1.777	0.100	100.00	100.74	-0.7	30.0	PASS	PASS
Chlorobenzene	1.373	0.300	100.00	110.59	-10.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.443	0.100	100.00	98.10	1.9	30.0	PASS	PASS
o-Xylene	2.732	0.100	100.00	104.47	-4.5	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.369	0.100	100.00	106.77	-6.8	30.0	PASS	PASS
Dibromochloromethane	1.338	0.100	100.00	105.19	-5.2	30.0	PASS	PASS
Isopropylbenzene	2.720	0.100	100.00	107.92	-7.9	30.0	PASS	PASS
Styrene	1.281	0.100	100.00	103.72	-3.7	30.0	PASS	PASS
n-Propylbenzene	6.319	0.100	100.00	107.34	-7.3	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.587	0.100	100.00	108.23	-8.2	30.0	PASS	PASS
tert-Butylbenzene	5.002	0.100	100.00	106.21	-6.2	30.0	PASS	PASS
2-Chlorotoluene	1.534	0.100	100.00	105.50	-5.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.824	0.100	50.00	45.37	9.3	30.0	PASS	PASS
sec-Butylbenzene	3.153	0.100	100.00	85.45	14.5	30.0	PASS	PASS
4-Chlorotoluene	1.644	0.100	100.00	101.04	-1.0	30.0	PASS	PASS
Bromobenzene	1.483	0.100	100.00	112.46	-12.5	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.826	0.100	100.00	106.89	-6.9	30.0	PASS	PASS
4-Isopropyltoluene	4.866	0.100	100.00	102.46	-2.5	30.0	PASS	PASS
Bromoform	1.690	0.100	100.00	91.52	8.5	30.0	PASS	PASS
1,2,3-Trichloropropane	1.333	0.100	100.00	92.93	7.1	30.0	PASS	PASS
n-Butylbenzene	4.714	0.100	100.00	102.68	-2.7	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.904	0.300	100.00	95.15	4.8	30.0	PASS	PASS
1,3-Dichlorobenzene	2.142	0.100	100.00	104.88	-4.9	30.0	PASS	PASS
1,4-Dichlorobenzene	2.116	0.100	100.00	105.70	-5.7	30.0	PASS	PASS
1,2-Dichlorobenzene	2.088	0.100	100.00	107.62	-7.6	30.0	PASS	PASS
Hexachlorobutadiene	4.753	0.100	100.00	104.08	-4.1	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.805	0.100	100.00	90.17	9.8	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.655	0.100	100.00	107.77	-7.8	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.690	0.100	100.00	106.55	-6.6	30.0	PASS	PASS
Naphthalene	3.043	0.100	100.00	93.32	6.7	30.0	PASS	PASS
2-Methylnaphthalene	2.449	0.100	100.00	97.75	2.2	40.0	PASS	PASS
1-Methylnaphthalene	2.266	0.100	100.00	95.43	4.6	40.0	PASS	PASS

RA 7-7-14

✓ DB 7/8/14

Analyst: RAA

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

Vr but on a different instrument cg 7-2-14

Analyst: cadg

JB 7/3/14

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

7.2.14

✓ NB 7/3/14

Analyst: cadg

eneric SampleList Printout - Thu Jul 03 14:04:10 2014

ampleList: C:\AgilentWS\070314m.smp

reated: Thu Jul 03 11:25:07 2014
odified: Thu Jul 03 14:04:07 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injection V-53-0046	
2	b2	none
3	b3	none time 12:44
4	10ppb 5035 ccv	below
	Notes V-54-0432	
5	lcs-14065	below
	Notes V-11-8032	
6	mb-14065	none
7	1407188-001a	below
	Notes x1 low level pb14065	
8	1407188-001ams	below
	Notes x1 low level pb14065 V-11-8032	
9	1407188-001amsd	below
	Notes x1 low level pb14065 V-11-8032	
10	1407139-001ams	below
	Notes r1 low level pb14027	

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\070314m.rcl.

Loaded By: ~~AFC~~ 7.3.14
1st Review By: RA 7.7.14
QA'd By: ✓ WB 7/7/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \2014\0714m\070314m 5035\10ppb 5035 ccv 7-3-2014.SMS Lab Sample ID: 10ppb 5035 ccv

Instrument ID: Mercury Date Analyzed: 7/3/2014 Time Analyzed: 13:13

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA # IS3	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	38329	7.14	58396	13.45	21830	17.03						
UPPER LIMIT	76658	7.64	116792	13.95	43660	17.53						
LOWER LIMIT	19165	6.64	29198	12.95	10915	16.53						
EPA SAMPLE NO												
b1 7-3-201	42853	7.13	60382	13.45	22919	17.03						
b2 7-3-201	42514	7.14	61521	13.45	21783	17.03						
b3 7-3-201	38221	7.14	52495	13.45	19605	17.03						
lcs-14065	40513	7.14	58343	13.45	21646	17.04						
mb-14065 7	39701	7.14	57172	13.45	21387	17.04						
1407188-00	36401	7.14	52398	13.46	19646	17.04						
1407188-00	40932	7.14	57167	13.45	21290	17.04						
1407188-00	37802	7.14	53778	13.46	20869	17.04						
1407139-00	37165	7.14	51992	13.45	20743	17.04						

PA 7.7.14

JB 7/7/14

Analyst: RAA

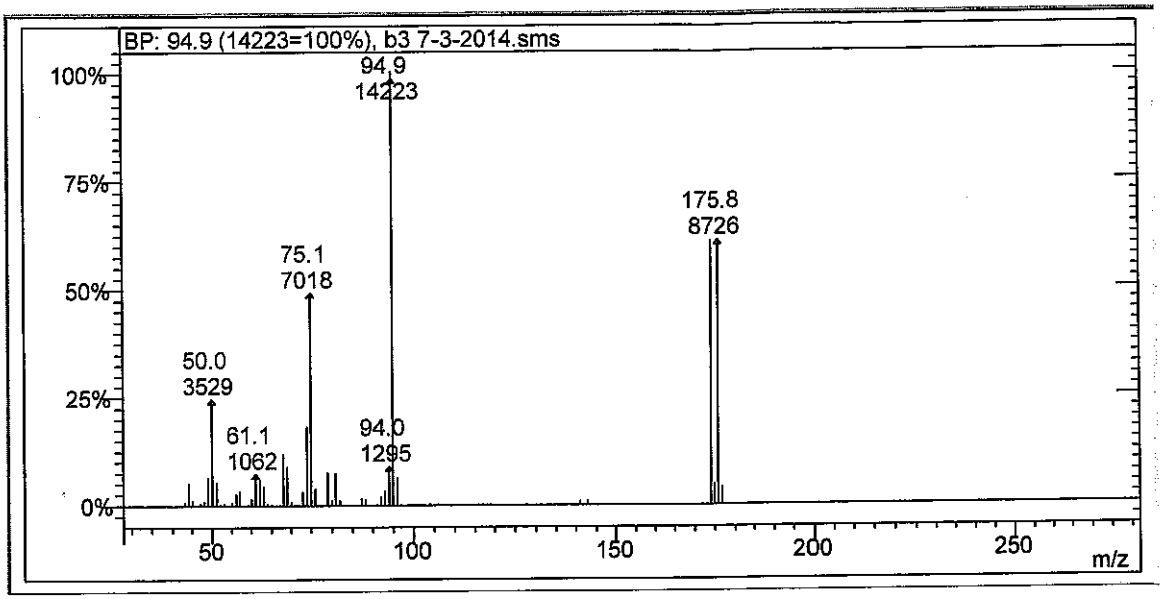
	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: RAA

BFB 8260B Report



Lab File ID b3 7-3-2014.sms

Injection Date: 7/3/2014

Injection Time: 12:44

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	24.81	PASS
75	30-60% of m/z 95	49.34	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.42	PASS
173	<2% of m/z 174	0.21	PASS
174	>50% of m/z 95	61.08	PASS
175	5-9% of m/z 174	7.86	PASS
176	>95% but <101% of m/z 174	100.44	PASS
177	5-9% of m/z 176	6.66	PASS

NB 7/7/14

7-7-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ata\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.sms Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
10ppb 5035	38329	7.14	58396	13.45	21830	17.03						

7-7-14

JB 7/7/14

IS1 = Pentafluorobenzene

IS2 = Benzene-d5-, chloro-

IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 7/3/2014 Time: 13:13

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:37 20:37

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Lab File ID: c:\agilentws\data\10ppb 5035 ccv 7-3-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.604	0.100	10.00	10.71	-7.1	30.0	PASS	PASS
Chloromethane	12.930	0.100	10.00	11.73	-17.3	30.0	PASS	PASS
Vinyl chloride	14.155	0.100	10.00	10.56	-5.6	20.0	PASS	PASS
Chloroethane	2.482	0.100	10.00	10.54	-5.4	30.0	PASS	PASS
Bromomethane	2.619	0.100	10.00	8.29	17.1	30.0	PASS	PASS
Trichlorofluoromethane	2.875	0.100	10.00	9.76	2.4	30.0	PASS	PASS
1,1-Dichloroethene	7.668	0.100	10.00	10.58	-5.8	20.0	PASS	PASS
Acetone	3.145	0.100	20.00	17.95	10.2	40.0	PASS	PASS
Carbon disulfide	5.829	0.100	20.00	21.84	-9.2	40.0	PASS	PASS
Iodomethane	8.820	0.100	20.00	18.85	5.7	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	4.532	0.100	20.00	11.98	40.1	30.0	FAIL	PASS ↓ low
Isopropyl ether	38.455	0.100	20.00	22.99	-15.0	40.0	PASS	PASS
tert-Butyl alcohol	0.293	0.100	200.00	81.11	59.4	40.0	FAIL	PASS — NR
trans-1,2-DCE	14.400	0.100	10.00	10.02	-0.2	30.0	PASS	PASS
tert-Butyl ethyl ether	122.361	0.100	20.00	24.29	-21.5	40.0	PASS	PASS
Methylene Chloride	9.540	0.100	10.00	11.36	-13.6	30.0	PASS	PASS
1,1-Dichloroethane	1.865	0.100	10.00	8.71	12.9	30.0	PASS	PASS
Vinyl acetate	19.881	0.100	20.00	22.64	-13.2	40.0	PASS	PASS
2,2-Dichloropropane	0.422	0.100	10.00	1.69	83.1	30.0	FAIL	PASS ↓ low
2-Butanone	7.786	0.100	20.00	17.64	11.8	40.0	PASS	PASS
1,1,1-Trichloroethane	3.886	0.100	10.00	8.32	16.8	30.0	PASS	PASS
1,1-Dichloropropene	7.317	0.100	10.00	9.59	4.1	30.0	PASS	PASS
tert-Amyl methyl ether	35.922	0.100	20.00	23.50	-17.5	40.0	PASS	PASS
Carbon Tetrachloride	2.030	0.100	10.00	10.73	-7.3	30.0	PASS	PASS
cis-1,2-DCE	3.019	0.100	10.00	10.31	-3.1	30.0	PASS	PASS
Benzene	10.399	0.100	10.00	10.35	-3.5	30.0	PASS	PASS
Chloroform	5.148	0.100	10.00	9.82	1.8	20.0	PASS	PASS
Bromochloromethane	4.587	0.100	10.00	11.60	-16.0	30.0	PASS	PASS
Trichloroethene (TCE)	16.438	0.100	10.00	10.27	-2.7	30.0	PASS	PASS
Dibromofluoromethane	3.300	0.100	20.00	21.99	-10.0	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.425	0.100	20.00	22.57	-12.8	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	70.864	0.100	10.00	10.97	-9.7	30.0	PASS	PASS
1,2-Dichloropropane	20.878	0.100	10.00	11.29	-12.9	20.0	PASS	PASS
4-Methyl-2-pentanone	6.553	0.100	20.00	19.51	2.5	40.0	PASS	PASS
Toluene-d8	1.729	0.100	20.00	18.43	7.8	30.0	PASS	PASS

✓ DB 7/7/14

Analyst: cadg

low failures will be quantified by Mit-level 5035 - AT 7-7-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.440	0.100	10.00	9.68	3.2	20.0	PASS	PASS
2-Chloroethyl vinyl ether	7.709	0.100	20.00	20.39	-1.9	40.0	PASS	PASS
cis-1,3-dichloropropene	16.431	0.100	10.00	9.54	4.6	30.0	PASS	PASS
Bromodichloromethane	3.030	0.100	10.00	10.18	-1.8	30.0	PASS	PASS
2-Hexanone	17.841	0.100	20.00	19.37	3.1	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.855	0.100	10.00	9.26	7.4	30.0	PASS	PASS
Dibromomethane	6.326	0.100	10.00	11.44	-14.4	30.0	PASS	PASS
1,3-Dichloropropane	6.085	0.100	10.00	10.46	-4.6	30.0	PASS	PASS
trans-1,3-dichloropropene	3.140	0.100	10.00	9.84	1.6	30.0	PASS	PASS
Ethylbenzene	11.773	0.100	10.00	9.41	5.9	20.0	PASS	PASS
mp-Xylenes	10.336	0.100	20.00	19.16	4.2	30.0	PASS	PASS
1,1,2-Trichloroethane	7.235	0.100	10.00	10.37	-3.7	30.0	PASS	PASS
Chlorobenzene	5.306	0.300	10.00	9.44	5.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.931	0.100	10.00	11.43	-14.3	30.0	PASS	PASS
o-Xylene	10.656	0.100	10.00	9.49	5.1	30.0	PASS	PASS
Dibromochloromethane	1.630	0.100	10.00	10.46	-4.6	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.633	0.100	10.00	10.48	-4.8	30.0	PASS	PASS
Isopropylbenzene	10.583	0.100	10.00	9.45	5.5	30.0	PASS	PASS
Styrene	5.117	0.100	10.00	8.85	11.5	30.0	PASS	PASS
n-Propylbenzene	36.068	0.100	10.00	9.34	6.6	30.0	PASS	PASS
1,3,5-Trimethylbenzene	26.339	0.100	10.00	9.32	6.8	30.0	PASS	PASS
tert-Butylbenzene	29.250	0.100	10.00	9.13	8.7	30.0	PASS	PASS
2-Chlorotoluene	9.125	0.100	10.00	9.68	3.2	30.0	PASS	PASS
4-Bromofluorobenzene	2.463	0.100	20.00	19.18	4.1	30.0	PASS	PASS
Bromobenzene	44.180	0.100	10.00	10.88	-8.8	30.0	PASS	PASS
4-Chlorotoluene	65.062	0.100	10.00	10.34	-3.4	30.0	PASS	PASS
sec-Butylbenzene	36.969	0.100	10.00	9.08	9.2	30.0	PASS	PASS
1,2,4-Trimethylbenzene	85.141	0.100	10.00	9.34	6.6	30.0	PASS	PASS
4-Isopropyltoluene	28.193	0.100	10.00	9.23	7.7	30.0	PASS	PASS
Bromoform	12.037	0.100	10.00	9.80	2.0	30.0	PASS	PASS
1,2,3-Trichloropropane	14.170	0.100	10.00	10.09	-0.9	30.0	PASS	PASS
n-Butylbenzene	49.157	0.100	10.00	10.04	-0.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	48.742	0.300	10.00	10.23	-2.3	30.0	PASS	PASS
1,3-Dichlorobenzene	12.408	0.100	10.00	9.71	2.9	30.0	PASS	PASS
1,4-Dichlorobenzene	11.459	0.100	10.00	9.49	5.1	30.0	PASS	PASS
1,2-Dichlorobenzene	12.194	0.100	10.00	9.92	0.8	30.0	PASS	PASS
Hexachlorobutadiene	25.809	0.100	10.00	9.17	8.3	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	12.087	0.100	10.00	9.21	7.9	30.0	PASS	PASS
1,2,4-Trichlorobenzene	37.169	0.100	10.00	10.03	-0.3	30.0	PASS	PASS
Naphthalene	17.008	0.100	10.00	9.18	8.2	30.0	PASS	PASS
1,2,3-Trichlorobenzene	33.149	0.100	10.00	10.70	-7.0	30.0	PASS	PASS
2-Methylnaphthalene	30.883	0.100	10.00	8.65	13.5	40.0	PASS	PASS
1-Methylnaphthalene	44.405	0.100	10.00	9.14	8.6	40.0	PASS	PASS

7-7-14

7/7/14

Analyst: cadg

JC 7-8-14

Analytical Report
Lab Order: **1407188**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407188

Lab ID: 1407188-001
Client Sample ID: FFOR-CF-0027

Collection Date: 7/3/2014 9:35:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
Acenaphthene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Acenaphthylene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Aniline	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Anthracene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Benz(a)anthracene	0.22	0.47	J	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Benzo(a)pyrene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Benzo(b)fluoranthene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Benzo(g,h,i)perylene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Benzo(k)fluoranthene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Bis(2-chloroethoxy)methane	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Bis(2-chloroethyl)ether	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Bis(2-chloroisopropyl)ether	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Bis(2-ethylhexyl)phthalate	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Bromophenyl phenyl ether	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Butyl benzyl phthalate	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Carbazole	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Chloro-3-methylphenol	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Chloroaniline	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Chloronaphthalene	ND	0.59		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Chlorophenol	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Chlorophenyl phenyl ether	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Chrysene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Di-n-butyl phthalate	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Di-n-octyl phthalate	ND	0.95		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Dibenz(a,h)anthracene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Dibenzofuran	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
1,2-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
1,3-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
1,4-Dichlorobenzene	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
3,3'-Dichlorobenzidine	ND	0.59		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Diethyl phthalate	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Dimethyl phthalate	ND	0.47		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4-Dichlorophenol	ND	0.95		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4-Dimethylphenol	ND	0.71		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4,6-Dinitro-2-methylphenol	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4-Dinitrophenol	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4-Dinitrotoluene	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,6-Dinitrotoluene	ND	1.2		mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407188

Comment: DUE 07/08/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Fluorene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Hexachlorobenzene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Hexachlorobutadiene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Hexachlorocyclopentadiene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Hexachloroethane	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Indeno(1,2,3-cd)pyrene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Isophorone	ND	1.2	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Methylnaphthalene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Methylphenol	ND	1.2	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
3+4-Methylphenol	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
N-Nitrosodi-n-propylamine	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
N-Nitrosodimethylamine	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
N-Nitrosodiphenylamine	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Naphthalene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Nitroaniline	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
3-Nitroaniline	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Nitroaniline	ND	0.95	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Nitrobenzene	ND	1.2	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2-Nitrophenol	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
4-Nitrophenol	ND	0.59	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Pentachlorophenol	ND	0.95	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Phenanthrene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Phenol	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Pyrene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Pyridine	ND	1.2	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
1,2,4-Trichlorobenzene	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4,5-Trichlorophenol	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
2,4,6-Trichlorophenol	ND	0.47	mg/Kg-dry	1	14071	7/7/2014 2:22:45 PM
Surr: 2-Fluorophenol	81.4	27.9-127	%REC	1	14071	7/7/2014 2:22:45 PM
Surr: Phenol-d5	81.1	24.5-126	%REC	1	14071	7/7/2014 2:22:45 PM
Surr: 2,4,6-Tribromophenol	52.6	27.6-136	%REC	1	14071	7/7/2014 2:22:45 PM
Surr: Nitrobenzene-d5	88.5	23.5-128	%REC	1	14071	7/7/2014 2:22:45 PM
Surr: 2-Fluorobiphenyl	82.7	22.6-132	%REC	1	14071	7/7/2014 2:22:45 PM
Surr: 4-Terphenyl-d14	75.3	28.1-128	%REC	1	14071	7/7/2014 2:22:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

PREP BATCH REPORT

Hall Environmental Analysis Laboratory

Extraction Method 3540

Time Started: 12:00
Time Ended: 6:00

Reviewed By: dam 7/7/14

SR 7.5

Prep Start Date: 7/5/2014 7:46:22 A
Prep End Date:

Prep Factor Units: mL / g

Prep Batch ID: 14071 Prep Code: 8270SOX_PR Method No: 3540 Technician: Steve Crandell

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14071	SR7.5	Soil			30	0	0	dam 1	0.033	7/5/2014	D 7.7.14
LCS-14071		Soil			30	0	0	7/7 1	0.033	7/5/2014	
1407139-001A	FFOR-CF-0016	MeOH (Soil)			30.16	0	0	2	0.033	7/5/2014	DAM 7/7/14
1407139-001AMS		MeOH (Soil)			30.59	0	0	2	0.033	7/5/2014	
1407139-001AMSD		MeOH (Soil)			30.02	0	0	2	0.033	7/5/2014	
1407139-002A	FFOR-CF-0017	MeOH (Soil)			30.13	0	0	1	0.033	7/5/2014	
1407139-003A	FFOR-CF-0018	MeOH (Soil)			30.07	0	0	1	0.033	7/5/2014	
1407139-004A	FFOR-CF-0019	MeOH (Soil)			30.30	0	0	2	0.033	7/5/2014	
1407139-005A	FFOR-CF-0020	MeOH (Soil)			30.29.89	0	0	1	0.033	7/5/2014	
1407139-006A	FFOR-CF-0021	MeOH (Soil)			30.30.20	0	0	1	0.033	7/5/2014	
1407139-007A	FFOR-CF-0022	MeOH (Soil)			30.30.05	0	0	1	0.033	7/5/2014	
1407139-008A	FFOR-CF-0023	MeOH (Soil)			30.30.36	0	0	1	0.033	7/5/2014	
1407139-009A	FFOR-CF-0024	MeOH (Soil)			30.30.12	0	0	10	0.033	7/5/2014	
1407139-010A	FFOR-CF-0025	MeOH (Soil)			30.30.33	0	0	1	0.033	7/5/2014	
1407139-011A	FFOR-CF-0026	MeOH (Soil)			30.29.91	0	0	1	0.033	7/5/2014	
1407188-001A	FFOR-CF-0027	MeOH (Soil)			30.30.11	0	0	1	0.033	7/5/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4642	Sodium Sulfate	14881	Container-01 of 02	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
	8270 Internal Standard	SAMP	24702	Container-01 of 01	20 dam 7/7	µL
	8270 Surrogate	SAMP	24703	Container-01 of 01	500 SR 7.5	µL
		LCS	24704	Container-01 of 01	500	µL

'arian Star Workstation - 8400 SampleList Mon Jul 07 14:05:18 2014

:ampleList: C:\VarianWS\070714.smp

:reated: Mon Jul 07 08:36:25 2014
lodified: Mon Jul 07 14:05:14 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm 11	1	below	1	1.0
	Notes sv110-0562				
3	50ppm	1	below	2	1.0
	Notes sv110-0594				
4	1407007-001b	1	below	3	1.0
	Notes x5 aq				
5	1407007-002b	1	below	4	1.0
	Notes x10 aq				
6	1407007-002b	1	below	5	1.0
	Notes x20 aq				
7	mb-14071	1	below	6	1.0
	Notes soil				
8	lcs-14071	1	below	7	1.0
	Notes soil				
9	1407139-007a	1	below	8	1.0
	Notes x1 soil				
10	1407139-008a	1	below	9	1.0
	Notes x1 soil				
11	1407139-010a	1	below	10	1.0
	Notes x1 soil				
12	1407139-011a	1	below	11	1.0
	Notes x1 soil				
13	1407188-001a	1	below	12	1.0
	Notes x1 soil		FV=2ml		
14	1407139-001a	1	below	13	1.0
	Notes x1 soil		FV=2ml		
15	1407139-001ams	1	below	14	1.0
	Notes x1 soil		FV=2ml		
16	1407139-001amsd	1	below	15	1.0
	Notes x1 soil		FV=2ml		
17	1407139-002a	1	below	16	1.0
	Notes x1 soil				
18	1407139-003a	1	below	17	1.0
	Notes x1 soil				
19	1407139-004a	1	below	18	1.0
	Notes x1 soil		FV=2ml		
20	1407139-005a	1	below	19	1.0
	Notes x1 soil				
21	1407139-009a	1	below	20	1.0
	Notes x1 soil		FV=10mL		
22	1407139-006a	1	below	21	1.0
	Notes x1 soil				
23					

dlm 7/7/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\070714.rcl.

7.8.14

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mtb

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and mr.

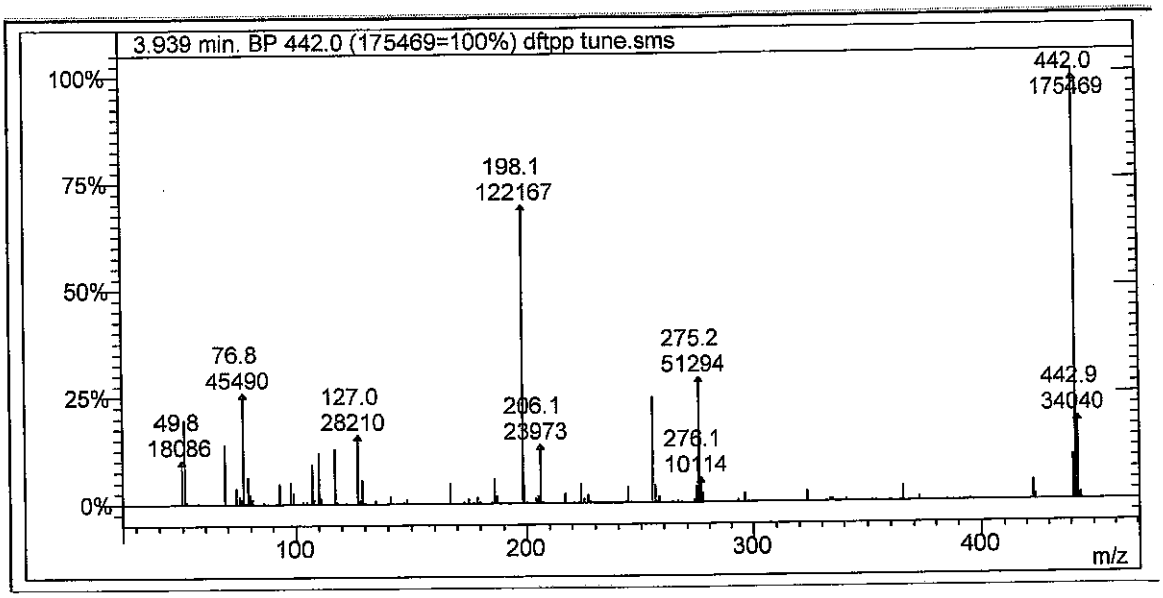
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☑	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/7/2014

Injection Time: 8:40

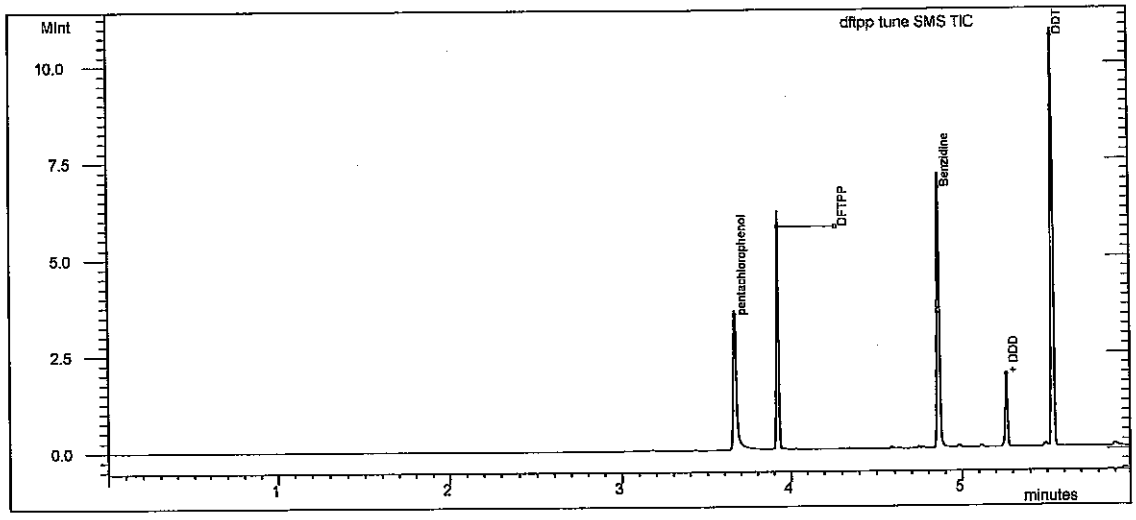
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.65	PASS
68	<2% of m/z 69	0.40	PASS
69	Present	13.81	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	16.08	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	69.62	PASS
199	5-9% of m/z 198	5.99	PASS
275	10-60% of base peak	29.23	PASS
365	>1% of base peak	3.58	PASS
441	Present and <m/z 443	53.81	PASS
442	>50% of m/z 198	143.63	PASS
443	15-24% of m/z 442	19.40	PASS

dlm 7/8/14

DC 7.8.14

Degradation Report

Acquisition Date:	7/7/2014 8:40:25 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.535	2.875E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.264	459630	5
DDE	4.985	5174	6

% Degradation of DDT : = 13.917

<20

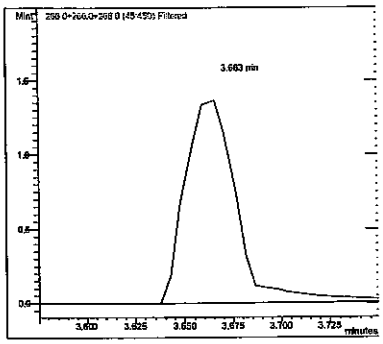
✓ dam 7/7/14

✓ JV 7.8.14

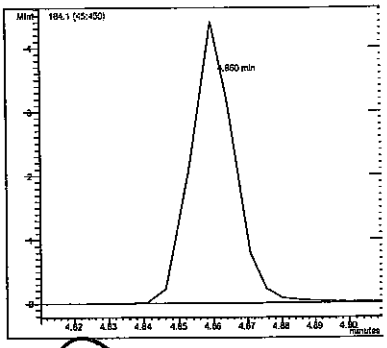
Tailing and Gaussian Factor Report

Acquisition Date:	7/7/2014 8:40:25 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.663 Area = 2.580E6



Benzidine
RT = 4.86 Area = 3.885E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.663	2.152	0.749
Benzidine	4.860	1.151	0.928

#	Compound Name	RT	Area
1	pentachlorophenol	3.663	2.580E6
3	Benzidine	4.860	3.885E6

dam 7/7/14

JC 7.8.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm	168914	5.19	565521	6.92	270674	9.51	482912	11.76	548593	15.77	660141	17.93

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dlm 7/7/14

JV 7-8-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\070714\50ppm .SMS Lab Sample ID: 50ppm

Instrument ID: ELMO Date Analyzed: 7/7/2014 Time Analyzed: 09:23

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	168914	5.19	565521	6.92	270674	9.51	482912	11.76	548593	15.77	660141	17.93
UPPER LIMIT	337828	5.69	1.131E6	7.42	541348	10.01	965824	12.26	1.097E6	16.27	1.320E6	18.43
LOWER LIMIT	84457	4.69	282761	6.42	135337	9.01	241456	11.26	274297	15.27	330071	17.43
EPA SAMPLE NO												
mb-14071	135434	5.19	453557	6.92	194754	9.52	384946	11.76	442723	15.78	512173	17.93
lcs-14071	105084	5.19	330323	6.91	144382	9.51	302975	11.76	315743	15.77	369726	17.93
1407139-00	107815	5.19	364040	6.91	158035	9.51	332058	11.75	338580	15.76	382122	17.92
1407139-00	120972	5.19	389742	6.91	167220	9.51	348905	11.76	391435	15.77	443240 D	17.93 D
1407139-01	116156	5.19	364552	6.91	149450	9.51	308313	11.75	357643	15.77	399571	17.92
1407139-01	117363	5.19	376455	6.92	160624	9.51	324604	11.76	373809	15.77	424587	17.93
1407188-00	107601	5.19	358581	6.92	153430	9.51	328906	11.76	384717	15.77	478737	17.93
1407139-00	100693	5.19	331372	6.92	134859*	9.51	289369	11.76	311848	15.77	362035	17.93
1407139-00	119190	5.20	369831	6.92	156437	9.52	327289	11.76	342324	15.78	416780	17.93
1407139-00	110879	5.20	351430	6.92	150488	9.52	330767	11.77	340625	15.78	422570	17.94
1407139-00	116437	5.19	386006	6.92	167861	9.51	334611	11.76	377551	15.77	472036	17.93
1407139-00	104375	5.19	338453	6.91	145093	9.51	321687	11.76	340127	15.77	421080	17.93
1407139-00	107213	5.19	348544	6.91	146469	9.51	302005	11.76	314797	15.77	411974	17.93
1407139-00	97714	5.19	315853	6.92	144215	9.51	308345	11.76	357193	15.77	430796	17.93
1407139-00	96930	5.19	313852	6.92	140947	9.51	323675	11.76	380612	15.77	438085	17.93
1407139-00	99607	5.19	330373	6.92	141875	9.51	277552	11.76	273919*	15.77	327324*	17.93

dam 7/8/14

JU 7.8.14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/7/2014 Time: 9:23

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm .sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.502	0.050	50.00	58.62	-17.2	40.0	PASS	PASS
Pyridine	10.629	0.050	50.00	58.56	-17.1	40.0	PASS	PASS
2-Fluorophenol	1.197	0.050	50.00	52.17	-4.3	40.0	PASS	PASS
Phenol-d5	1.145	0.050	50.00	52.43	-4.9	40.0	PASS	PASS
Phenol	1.267	0.050	50.00	51.75	-3.5	20.0	PASS	PASS
Aniline	3.682	0.050	50.00	44.98	10.0	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.105	0.050	50.00	52.65	-5.3	40.0	PASS	PASS
2-Chlorophenol	1.205	0.050	50.00	50.36	-0.7	40.0	PASS	PASS
1,3-Dichlorobenzene	1.540	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
1,4-Dichlorobenzene	1.568	0.050	50.00	55.00	-10.0	20.0	PASS	PASS
Benzyl alcohol	1.174	0.050	50.00	52.54	-5.1	40.0	PASS	PASS
1,2-Dichlorobenzene	1.478	0.050	50.00	52.59	-5.2	40.0	PASS	PASS
2-Methylphenol	1.002	0.050	50.00	51.35	-2.7	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.499	0.050	50.00	53.31	-6.6	40.0	PASS	PASS
3+4-Methylphenol	1.160	0.050	50.00	47.60	4.8	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.647	0.050	50.00	51.54	-3.1	40.0	PASS	PASS
Hexachloroethane	4.719	0.050	50.00	50.93	-1.9	40.0	PASS	PASS
Nitrobenzene-d5	0.304	0.050	50.00	49.38	1.2	40.0	PASS	PASS
Nitrobenzene	0.326	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
Isophorone	0.655	0.050	50.00	55.93	-11.9	40.0	PASS	PASS
2-Nitrophenol	0.306	0.050	50.00	49.27	1.5	20.0	PASS	PASS
2,4-Dimethylphenol	0.350	0.050	50.00	48.01	4.0	40.0	PASS	PASS
Benzoic acid	1.905	0.050	50.00	45.04	9.9	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.392	0.050	50.00	54.09	-8.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.363	0.050	50.00	51.40	-2.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.324	0.050	50.00	49.52	1.0	40.0	PASS	PASS
Naphthalene	0.889	0.050	50.00	53.59	-7.2	40.0	PASS	PASS
4-Chloroaniline	0.383	0.050	50.00	49.47	1.1	40.0	PASS	PASS
Hexachlorobutadiene	0.621	0.050	50.00	46.67	6.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.441	0.050	50.00	52.61	-5.2	20.0	PASS	PASS
2-Methylnaphthalene	0.261	0.050	50.00	51.76	-3.5	40.0	PASS	PASS
1-Methylnaphthalene	0.234	0.050	50.00	45.70	8.6	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.428	0.050	50.00	42.65	14.7	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.318	0.050	50.00	44.38	11.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.300	0.050	50.00	45.22	9.6	40.0	PASS	PASS
2-Fluorobiphenyl	1.512	0.050	50.00	49.29	1.4	40.0	PASS	PASS

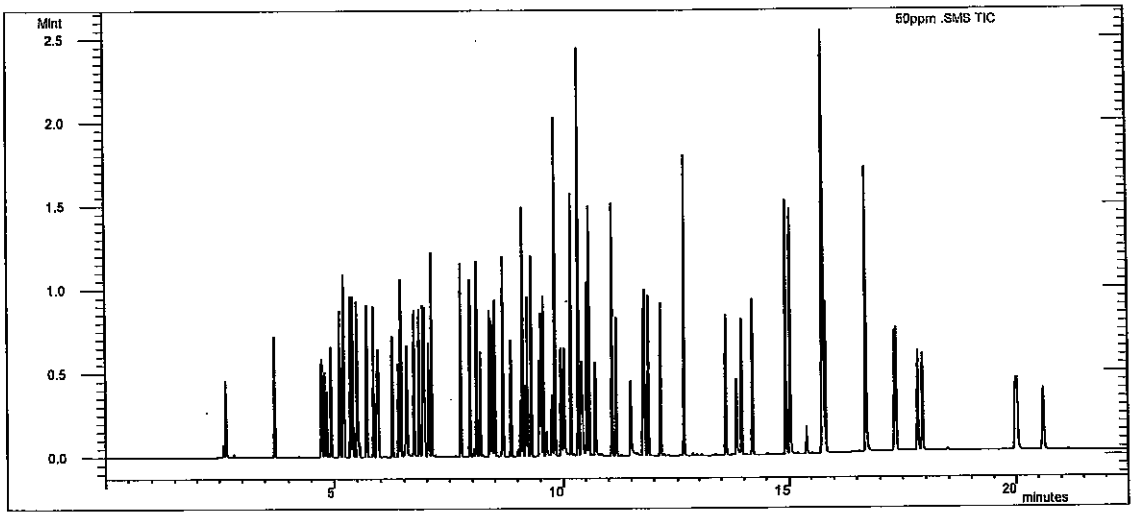
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.521	0.050	50.00	48.62	2.8	40.0	PASS	PASS
2-Nitroaniline	1.073	0.050	50.00	48.12	3.8	40.0	PASS	PASS
Dimethyl phthalate	2.956	0.050	50.00	51.35	-2.7	40.0	PASS	PASS
2,6-Dinitrotoluene	0.687	0.050	50.00	49.78	0.4	40.0	PASS	PASS
Acenaphthylene	1.897	0.050	50.00	48.69	2.6	40.0	PASS	PASS
3-Nitroaniline	1.072	0.050	50.00	49.25	1.5	40.0	PASS	PASS
Acenaphthene	1.205	0.050	50.00	47.69	4.6	20.0	PASS	PASS
2,4-Dinitrophenol	1.744	0.050	50.00	44.52	11.0	40.0	PASS	PASS
4-Nitrophenol	0.193	0.050	50.00	49.99	0.0	40.0	PASS	PASS
Dibenzofuran	0.819	0.050	50.00	44.56	10.9	40.0	PASS	PASS
2,4-Dinitrotoluene	0.346	0.050	50.00	46.83	6.3	40.0	PASS	PASS
Diethyl phthalate	2.406	0.050	50.00	47.65	4.7	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.718	0.050	50.00	42.99	14.0	40.0	PASS	PASS
Fluorene	2.399	0.050	50.00	46.15	7.7	40.0	PASS	PASS
4-Nitroaniline	1.895	0.050	50.00	49.05	1.9	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.312	0.050	50.00	54.86	-9.7	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.715	0.050	50.00	53.59	-7.2	20.0	PASS	PASS
Azobenzene	1.033	0.050	50.00	55.10	-10.2	40.0	PASS	PASS
2,4,6-Tribromophenol	1.765	0.050	50.00	53.23	-6.5	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.540	0.050	50.00	52.90	-5.8	40.0	PASS	PASS
Hexachlorobenzene	0.555	0.050	50.00	50.19	-0.4	40.0	PASS	PASS
Pentachlorophenol	1.482	0.050	50.00	52.34	-4.7	20.0	PASS	PASS
Phenanthrene	1.044	0.050	50.00	54.29	-8.6	40.0	PASS	PASS
Anthracene	1.072	0.050	50.00	55.01	-10.0	40.0	PASS	PASS
Carbazole	0.971	0.050	50.00	51.14	-2.3	40.0	PASS	PASS
Di-n-butyl phthalate	2.130	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Fluoranthene	0.899	0.050	50.00	48.26	3.5	20.0	PASS	PASS
Benzidine	0.502	0.050	50.00	45.13	9.7	40.0	PASS	PASS
Pyrene	0.784	0.050	50.00	47.33	5.3	40.0	PASS	PASS
4-Terphenyl-d14	1.102	0.050	50.00	46.09	7.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.988	0.050	50.00	52.09	-4.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.869	0.050	50.00	48.64	2.7	40.0	PASS	PASS
Benz[a]anthracene	1.620	0.050	50.00	44.83	10.3	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.999	0.050	50.00	42.10	15.8	40.0	PASS	PASS
Chrysene	1.806	0.050	50.00	43.81	12.4	40.0	PASS	PASS
Di-n-octyl phthalate	2.520	0.050	50.00	52.87	-5.7	20.0	PASS	PASS
Benzo(b)fluoranthene	1.425	0.050	50.00	49.26	1.5	40.0	PASS	PASS
Benzo[k]fluoranthene	1.469	0.050	50.00	50.58	-1.2	40.0	PASS	PASS
Benzo[a]pyrene	1.377	0.050	50.00	50.33	-0.7	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.850	0.050	50.00	48.90	2.2	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.735	0.050	50.00	50.59	-1.2	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.812	0.050	50.00	47.84	4.3	40.0	PASS	PASS

dlm 7/7/14

7-8-14

8270C Report

Sample Name:	50ppm	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	7/7/2014 9:23:58 AM
Calculation Date:	7/7/2014 9:46:29 AM				



dlm
7/7/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.192	428	Identified	168914	40.000
Naphthalene-d8 (I.S)	6.915	604	Identified	565521	40.000
Acenaphthene-d10 (I.S)	9.514	869	Identified	270674	40.000
Phenanthrene-d10	11.760	1101	Identified	482912	40.000
Chrysene-d12 I.S	15.775	1511	Identified	548593	40.000
Perylene-d12 I.S	17.931	1739	Identified	660141	40.000
N-nitrosodimethylamine	2.599	164	Identified	739389	58.622
Pyridine	2.645	169	Identified	2.244E6	58.562
2-Fluorophenol	3.715	277	Identified	252685	52.167
Phenol-d5	4.721	379	Identified	241823	52.433
Phenol	4.737	381	Identified	267556	51.746
Aniline	4.791	387	Identified	777430	44.978
Bis(2-chloroethyl)ether	4.845	392	Identified	444533	52.652
2-Chlorophenol	4.936	402	Identified	254435	50.364
1,3-Dichlorobenzene	5.123	421	Identified	325241	51.185
1,4-Dichlorobenzene	5.213	430	Identified	331024	55.005
Benzyl alcohol	5.358	445	Identified	247828	52.536
1,2-Dichlorobenzene	5.409	450	Identified	312035	52.590
2-Methylphenol	5.498	459	Identified	211587	51.354
Bis(2-chloroisopropyl)ether	5.516	461	Identified	316470	53.315
3+4-Methylphenol	5.703	480	Identified	244992	47.598
N-Nitrosodi-n-propylamine	5.693	479	Identified	769961	51.537
Hexachloroethane	5.849	495	Identified	996484	50.935
Nitrobenzene-d5	5.923	503	Identified	214909	49.377

JC
7-8-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.948	505	Identified	230459	51.604
Isophorone	6.254	536	Identified	462830	55.926
2-Nitrophenol	6.382	549	Identified	216242	49.267
2,4-Dimethylphenol	6.430	554	Identified	247668	48.010
Benzoic acid	6.536	565	Identified	1.347E6	45.036
Bis(2-chloroethoxy)methane	6.558	567	Identified	276881	54.093
2,4-Dichlorophenol	6.717	584	Identified	256824	51.404
1,2,4-Trichlorobenzene	6.832	596	Identified	228915	49.524
Naphthalene	6.948	608	Identified	628769	53.586
4-Chloroaniline	7.036	617	Identified	270722	49.468
Hexachlorobutadiene	7.108	624	Identified	438837	46.665
4-Chloro-3-methylphenol	7.750	689	Identified	311739	52.613
2-Methylnaphthalene	7.953	710	Identified	184183	51.755
1-Methylnaphthalene	8.101	725	Failed	165744	45.703
Hexachlorocyclopentadiene	8.178	733	Identified	302497	42.650
2,4,6-Trichlorophenol	8.382	753	Failed	107481	44.378
2,4,5-Trichlorophenol	8.439	759	Identified	101656	45.216
2-Fluorobiphenyl	8.498	766	Identified	511644	49.286
2-Chloronaphthalene	8.679	784	Identified	514763	48.623
2-Nitroaniline	8.859	802	Identified	363122	48.115
Dimethyl phthalate	9.115	828	Identified	1.000E6	51.353
2,6-Dinitrotoluene	9.219	839	Identified	232464	49.781
Acenaphthylene	9.304	848	Identified	642000	48.692
3-Nitroaniline	9.479	866	Identified	362786	49.254
Acenaphthene	9.564	874	Identified	407652	47.687
2,4-Dinitrophenol	9.629	881	Identified	589921	44.518
4-Nitrophenol	9.760	895	Identified	65359	49.994
Dibenzofuran	9.822	901	Identified	277111	44.564
2,4-Dinitrotoluene	9.823	901	Identified	116935	46.828
Diethyl phthalate	10.173	938	Identified	814058	47.654
4-Chlorophenyl phenyl ether	10.340	955	Identified	242913	42.987
Fluorene	10.340	955	Identified	811778	46.151
4-Nitroaniline	10.406	962	Identified	641020	49.048
4,6-Dinitro-2-methylphenol	10.436	965	Identified	791808	54.856
N-Nitrosodiphenylamine	10.531	975	Identified	431792	53.590
Azobenzene	10.580	980	Identified	623416	55.097
2,4,6-Tribromophenol	10.713	993	Identified	1.065E6	53.227
4-Bromophenyl phenyl ether	11.080	1031	Identified	325855	52.896
Hexachlorobenzene	11.168	1040	Identified	334825	50.186
Pentachlorophenol	11.483	1072	Identified	894649	52.342
Phenanthrene	11.797	1105	Identified	630236	54.293
Anthracene	11.874	1113	Identified	646833	55.014
Carbazole	12.139	1140	Identified	585953	51.139
Di-n-butyl phthalate	12.643	1191	Identified	1.286E6	53.130
Fluoranthene	13.602	1288	Identified	542711	48.264
Benzidine	13.837	1312	Identified	344005	45.126
Pyrene	13.946	1323	Identified	537717	47.330
4-Terphenyl-d14	14.181	1347	Identified	755565	46.095
Butyl benzyl phthalate	14.922	1423	Identified	677502	52.089
3,3'-Dichlorobenzidine	15.747	1508	Identified	1.282E6	48.636

Operator: David Melius Inj. Notes: sv110-0594 50ppm .SMS

7/7/2014 9:47

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.760	1510	Identified	1.111E6	44.828
Bis(2-ethylhexyl)phthalate	15.764	1510	Identified	684894	42.100
Chrysene	15.814	1515	Identified	1.239E6	43.812
Di-n-octyl phthalate	16.697	1608	Identified	1.728E6	52.869
Benzo(b)fluoranthene	17.316	1674	Identified	1.176E6	49.256
Benzo[k]fluoranthene	17.355	1678	Identified	1.212E6	50.577
Benzo[a]pyrene	17.835	1729	Identified	1.136E6	50.332
Indeno[1,2,3-cd]pyrene	19.988	1957	Identified	701672	48.904
Dibenz[a,h]anthracene	20.025	1960	Identified	606737	50.590
Benzo[g,h,i]perylene	20.618	2023	Identified	669902	47.837

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Revision Log
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7/7/2014 9:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

:List: C:\VarianWS\042514crv.smp

:d: Fri Apr 25 09:05:43 2014
.ed: Fri Apr 25 15:09:46 2014

****

ıe	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
.0	50ppm crv	1	below	8	1.0
	Notes st110-0594				
.1	80ppm crv	1	below	9	1.0
	Notes st110-0595				
.2	100ppm crv	1	below	10	1.0
	Notes st110-0596				
.3	120ppm crv	1	below	11	1.0
	Notes st110-0597				
.4	50ppm icv	1	below	12	1.0
	Notes st110-0599				
.5					

dam
4/28/14

4.28.14

ctory for Data Files: C:\VarianWS\data

Data File Names: %s

te and update a new RecalcList: c:\varianws\042514crv.rcl.

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4-28-14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

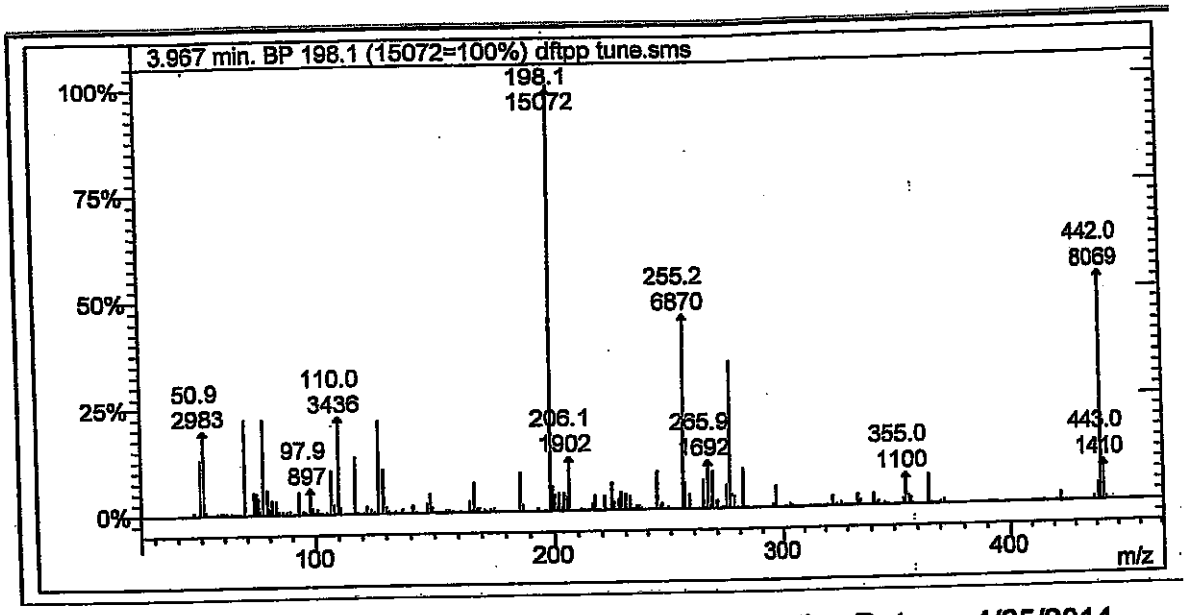
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

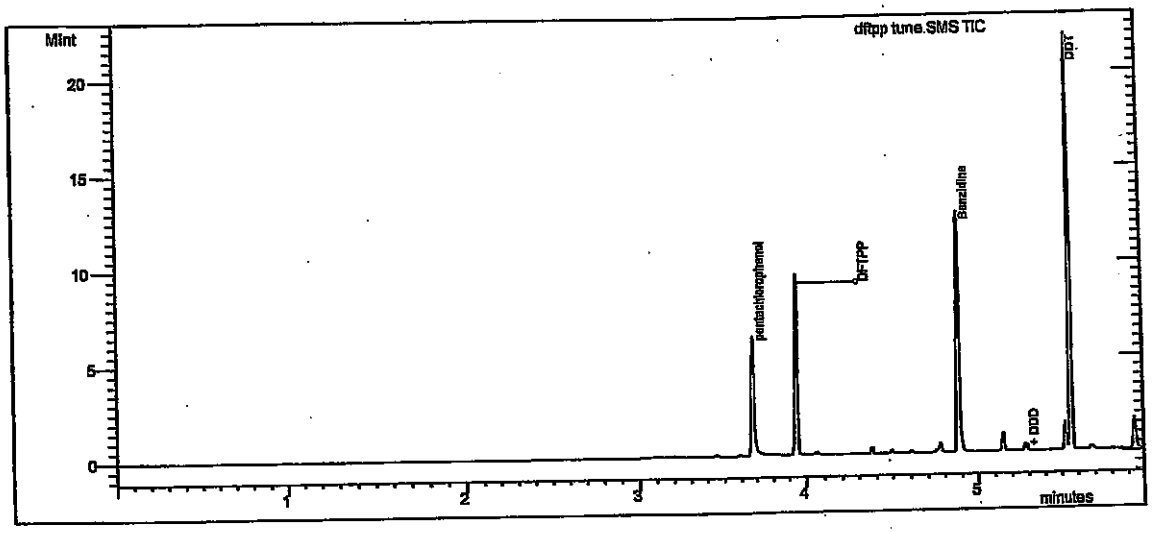
Jdam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

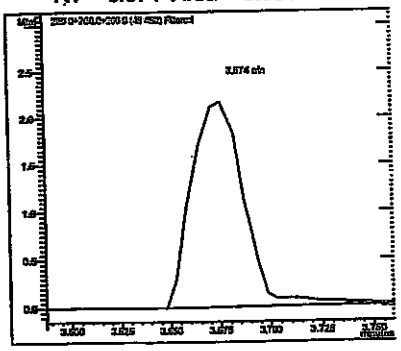
% Degradation of **DDT: =** .509 ✓ dam 4/28/14

TC 4-28-14

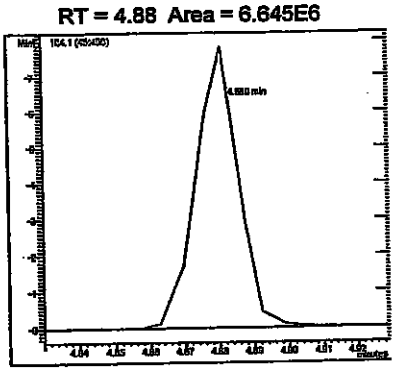
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dlm 4/28/14

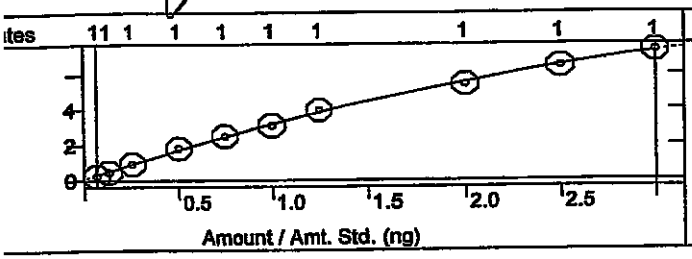
#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

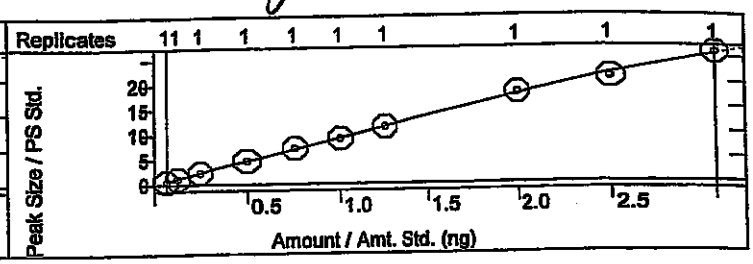
)d:	c:\varianws\methods\8270 042514.mth		
c Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
le List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-10

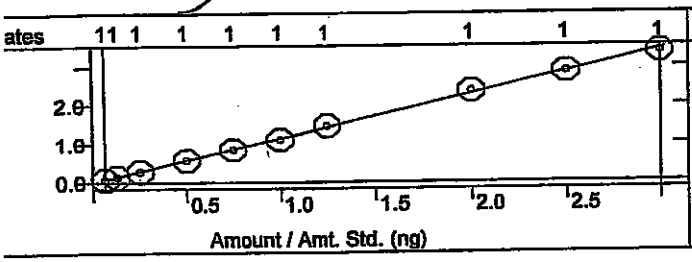
rosodimethylamine
e Fit: Quadratic, Origin: Ignore, Weight: None
. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
0.3412x2 +3.4265x +0.0884



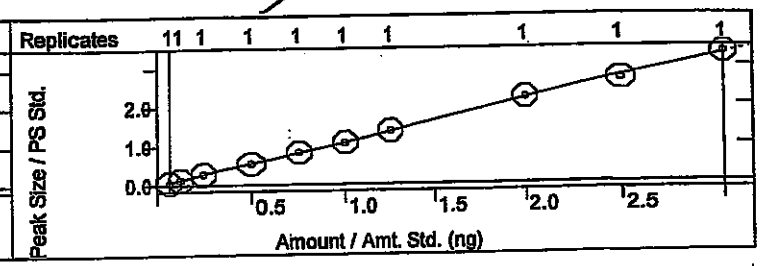
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



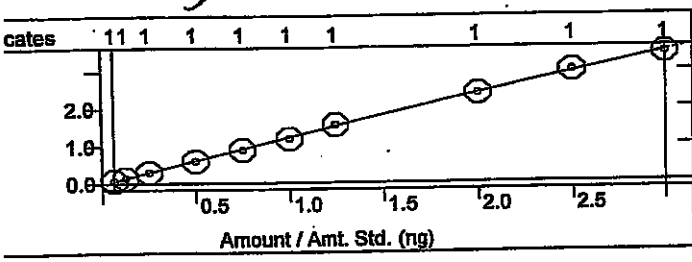
uorophenol
/e Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
+1.1454x +0.0021



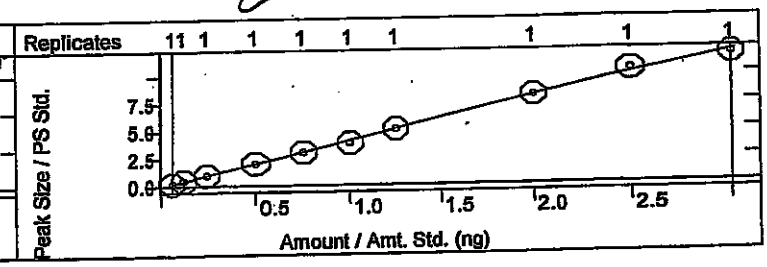
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



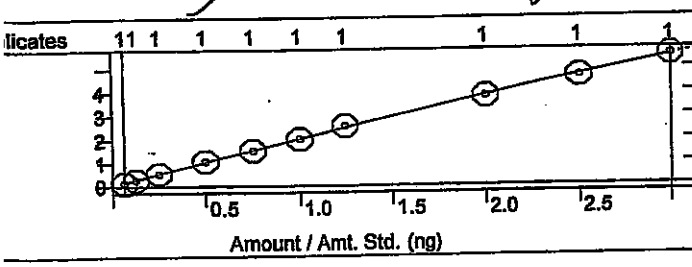
nol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
-0.0409x2 +1.2967x -0.0251



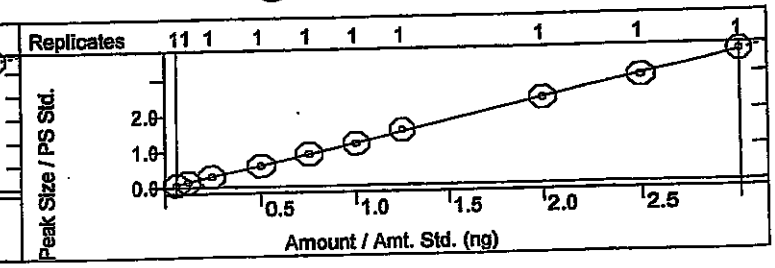
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



s(2-chloroethyl)ether
irve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
= -0.0958x2 +2.1070x +0.0242



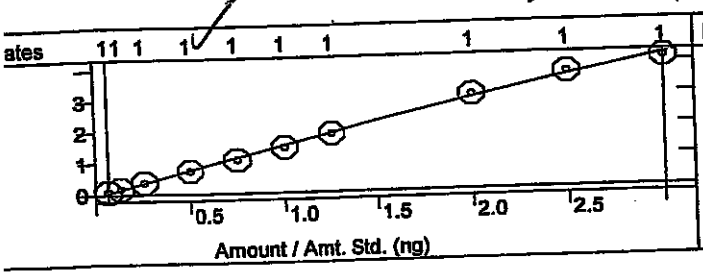
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



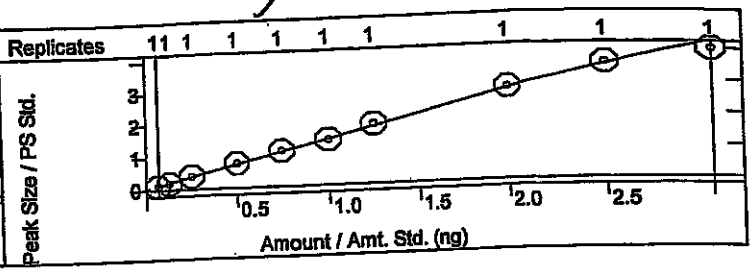
bration Curves Report

od:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
lc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ole List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

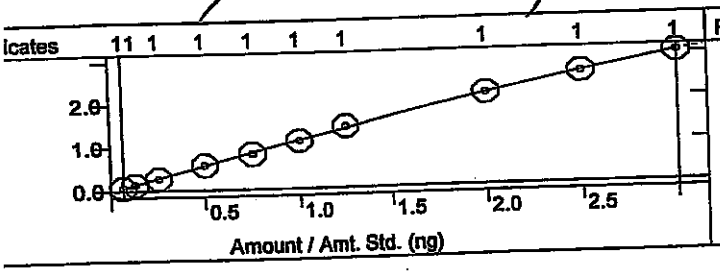
Dichlorobenzene
re Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
-0.0693x2 +1.6278x -0.0442



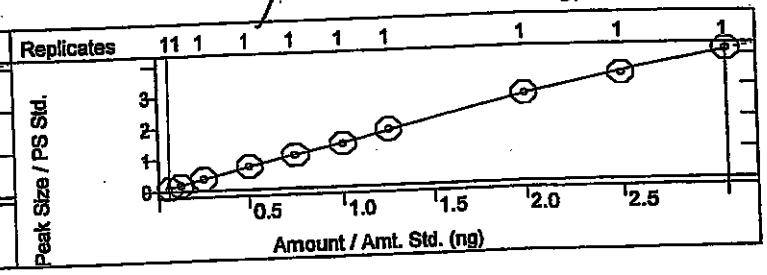
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



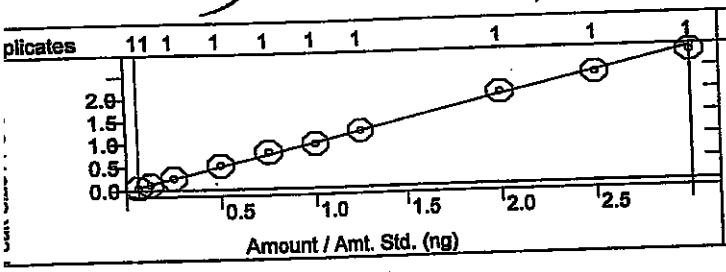
nzyl alcohol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
-0.0661x2 +1.2165x -0.0165



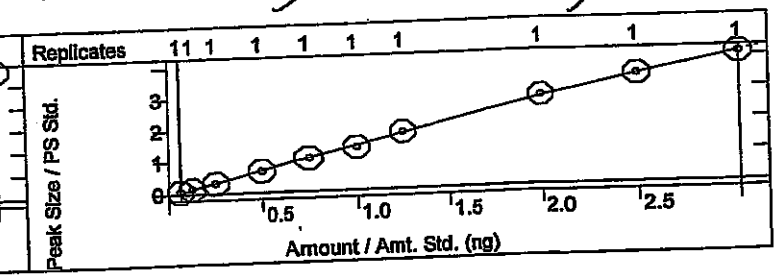
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



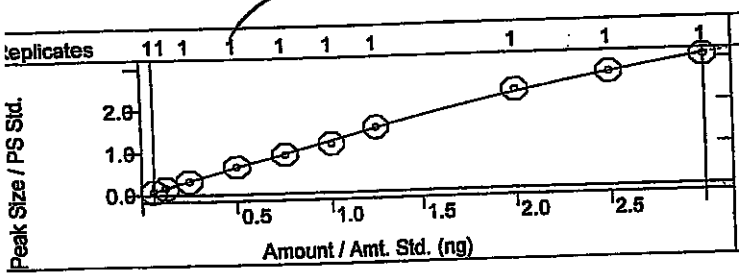
Methylphenol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
= +0.9716x +0.0052



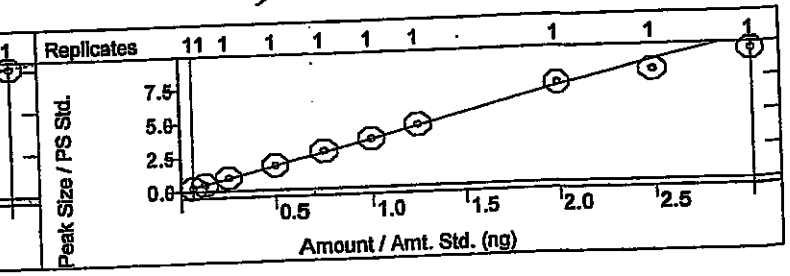
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272

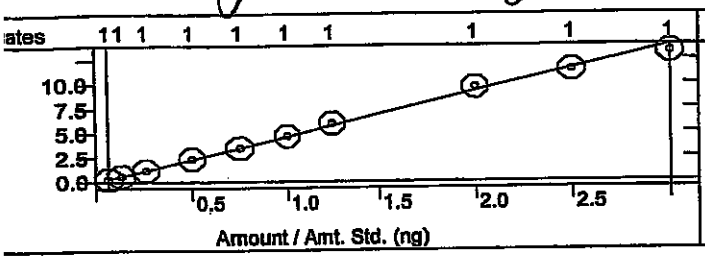


N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381

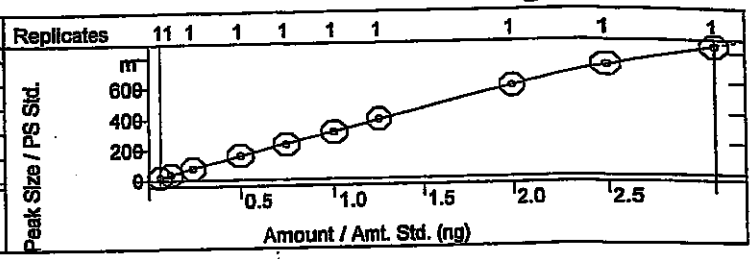


od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

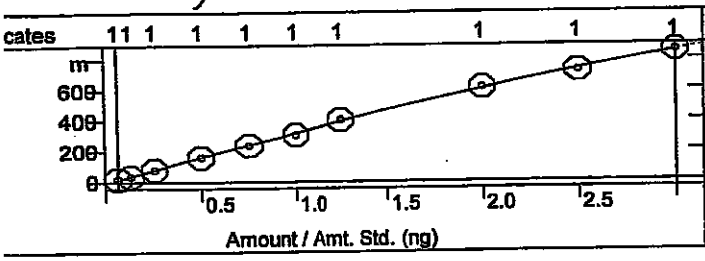
achloroethane
/e Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
+4.6167x +0.0205



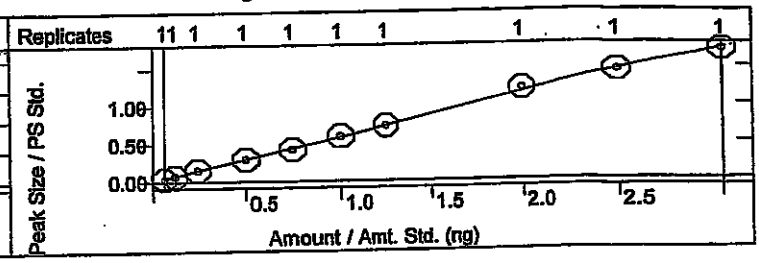
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



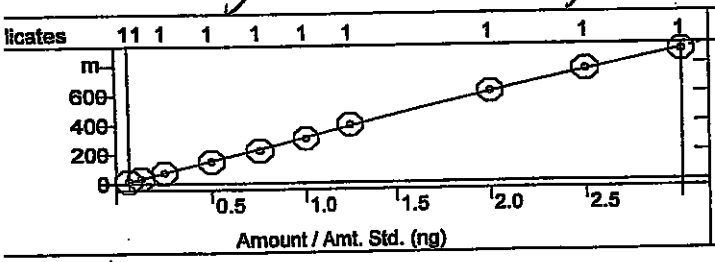
obenzene
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
-0.0200x2 +0.3461x -0.0058



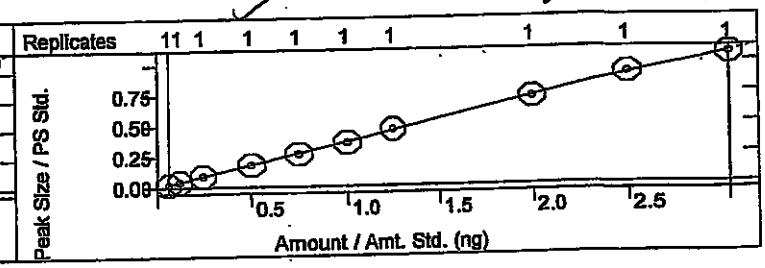
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



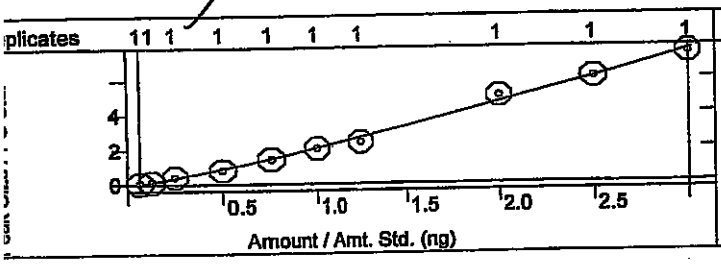
Nitrophenol
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



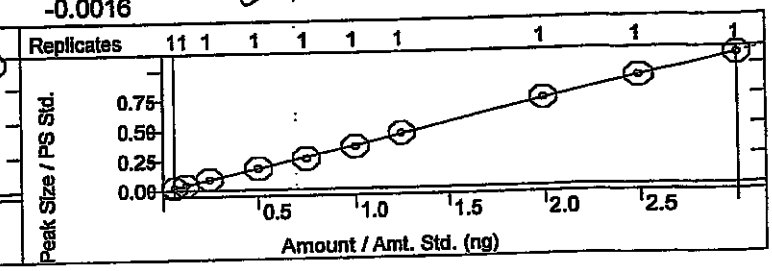
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



enzoic acid
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
= +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016

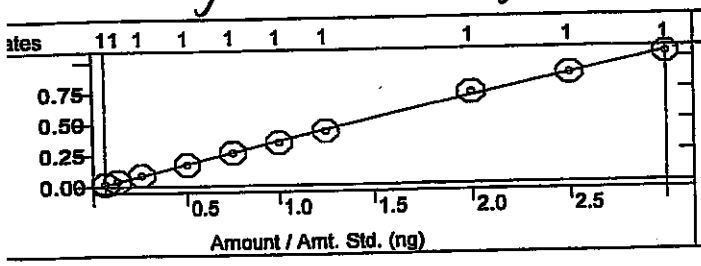


bration Curves Report

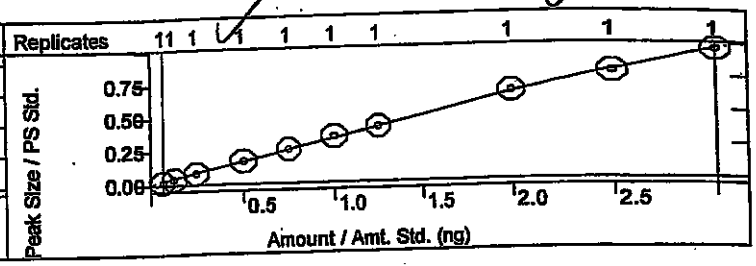
od:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
lc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
le List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JV 4-28-14

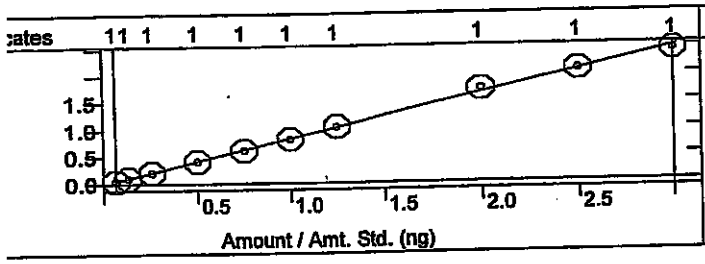
)ichlorophenol
e Fit: Quadratic, Origin: Ignore, Weight: None
). Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
-0.0055x2 +0.3668x -0.0082



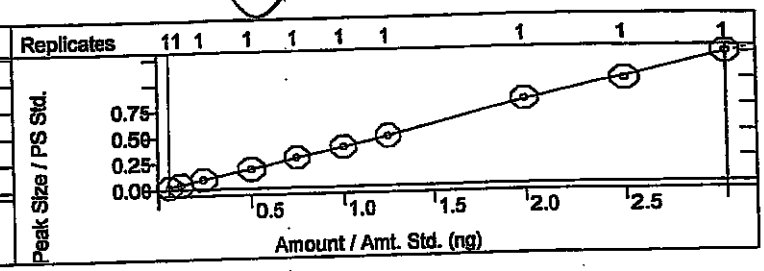
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



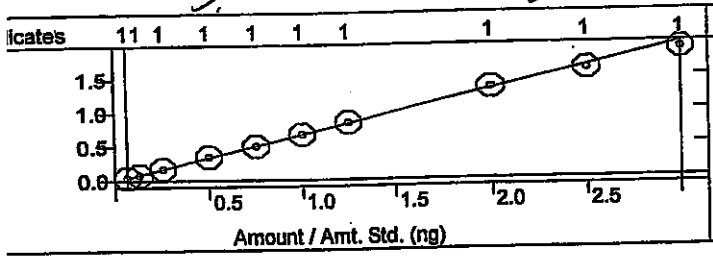
hthalene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
+0.8263x +0.0048



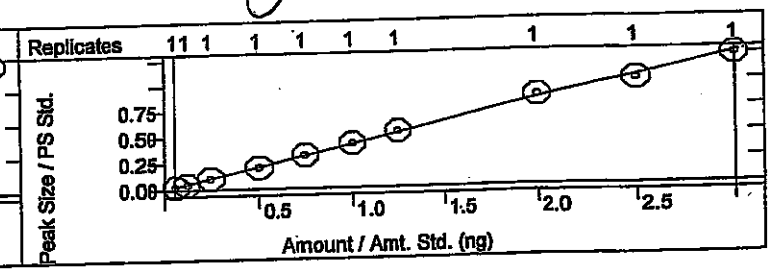
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



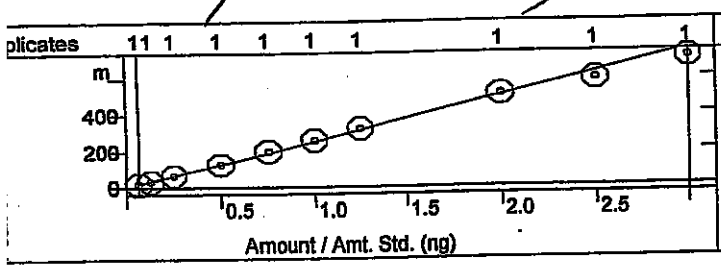
xachlorobutadiene
rve Fit: Linear, Origin: Ignore, Weight: 1/X2
sp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
+0.6599x +0.0061



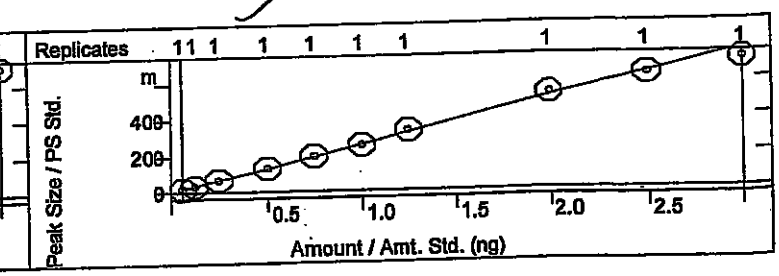
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
= +0.2503x +0.0018



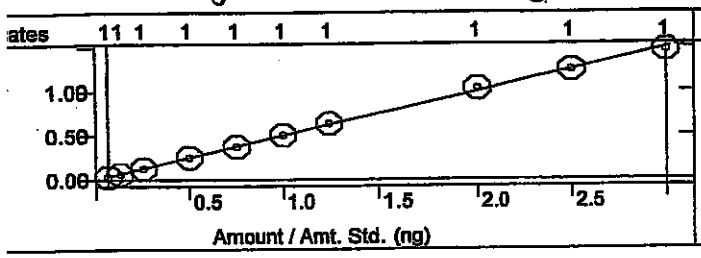
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.611%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



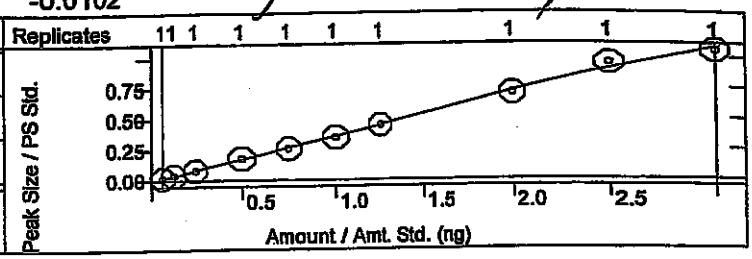
iod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
t Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-28-14

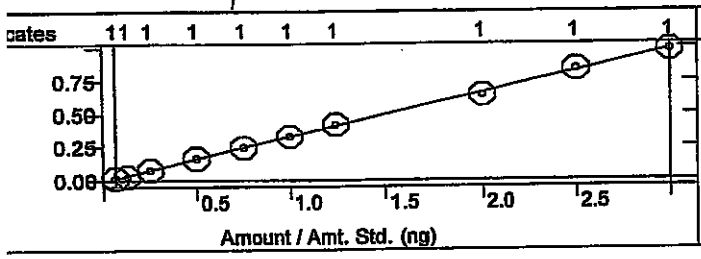
achlorocyclopentadiene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
+0.4936x +0.0086



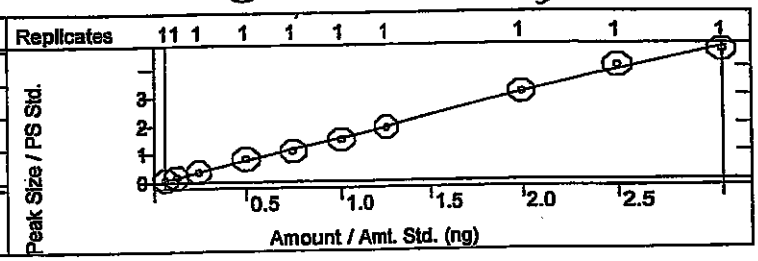
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x
-0.0102



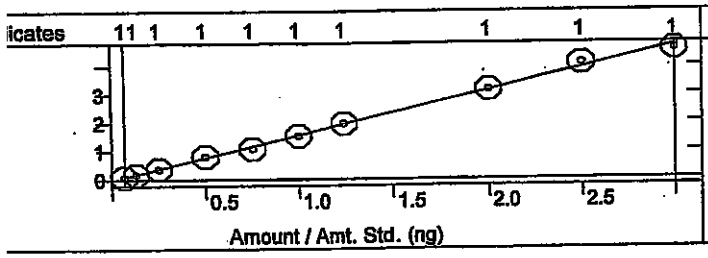
5-Trichlorophenol
ve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
-0.0042x2 +0.3430x -0.0068



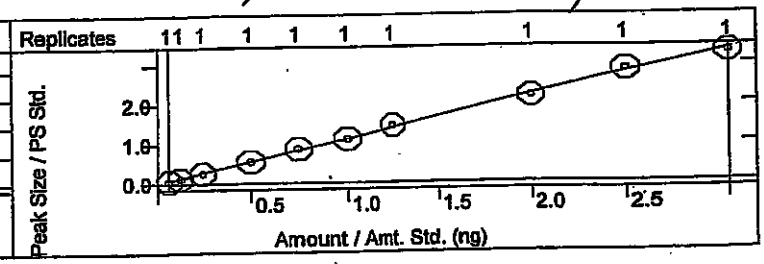
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



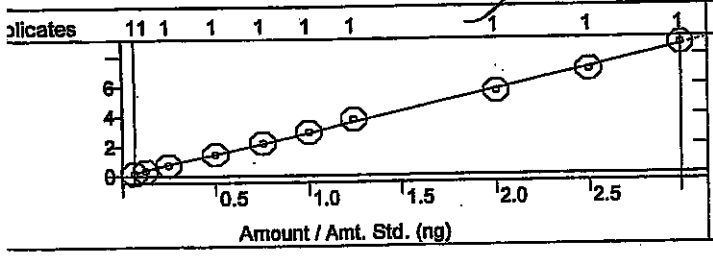
hloronaphthalene
rve Fit: Linear, Origin: Ignore, Weight: None
sp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
+1.5769x -0.0150



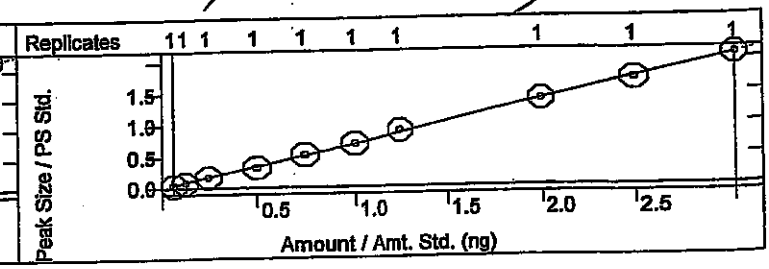
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



methyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
= +2.8638x +0.0179



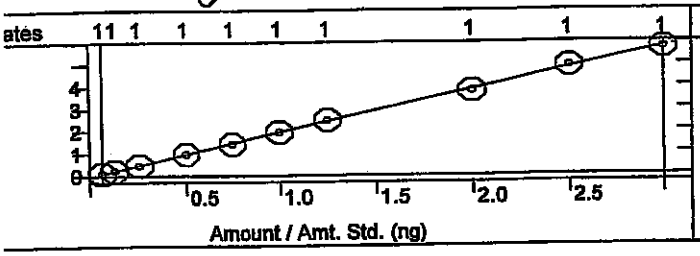
2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



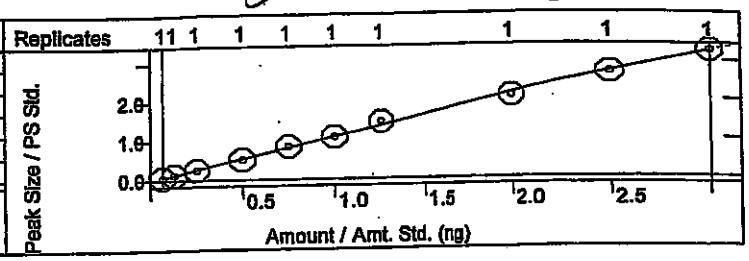
ibration Curves Report

od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ience:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
: Measurement:	Area	Calibration Type:	Internal Standard Analysis

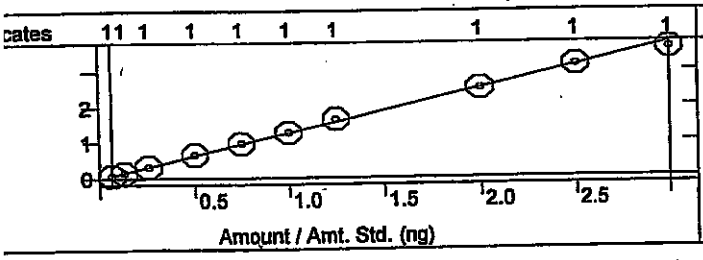
naphthylene
re Fit: Quadratic, Origin: Ignore, Weight: None
p. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
-0.0224x2 +2.0006x -0.0303



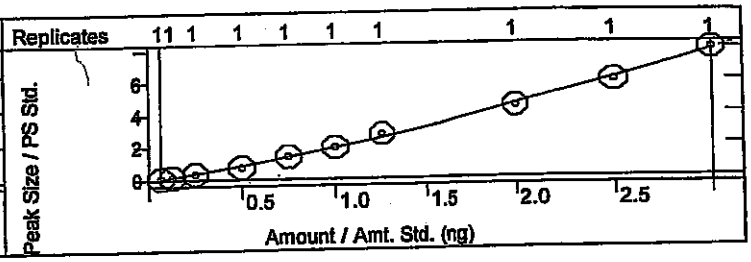
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



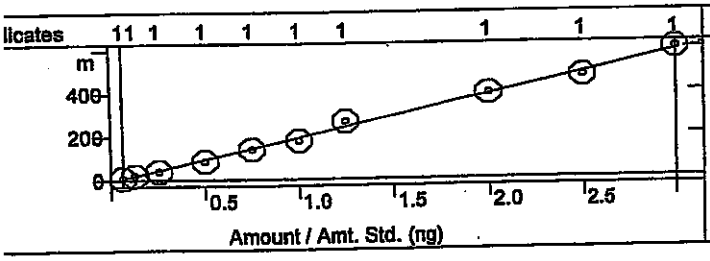
naphthene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
+1.2637x -5.2278e-4



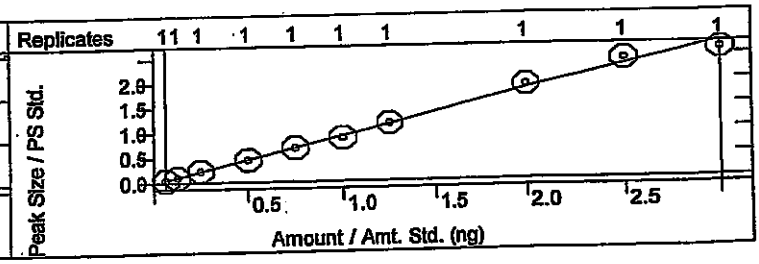
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



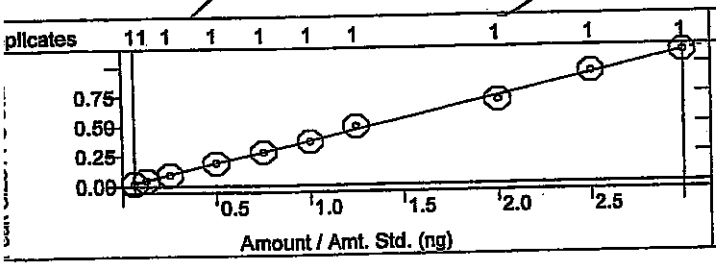
itrophenol
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
+0.1978x -0.0058



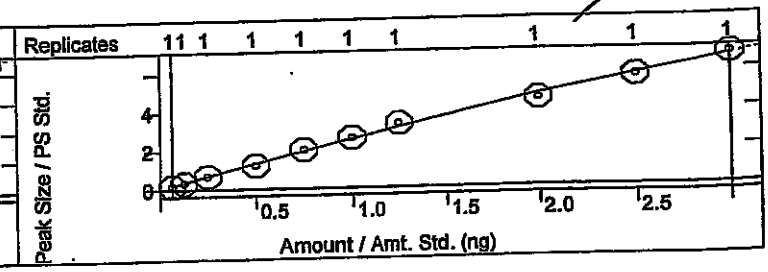
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



4-Dinitrotoluene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
= -0.0024x2 +0.3726x -8.6289e-4



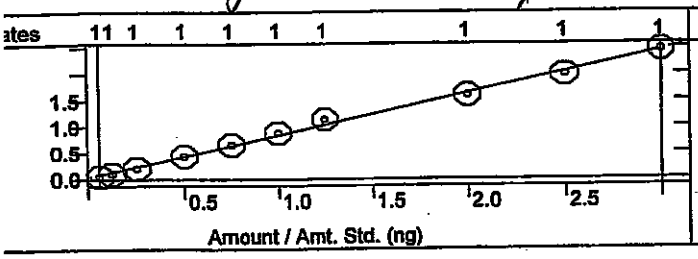
Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



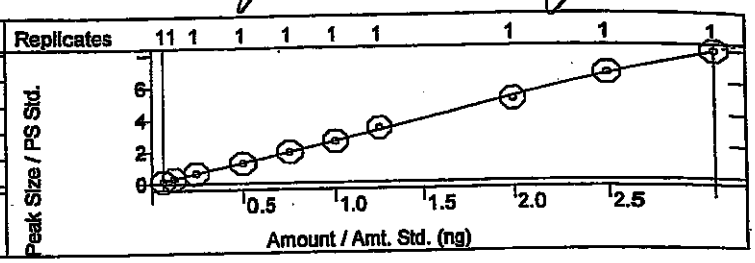
od:	c:\varianws\methods\8270 042514.mth		
lc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ole List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
ence:	N/A	Detector:	2000 Mass Spec
Vorkstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

4-24-14

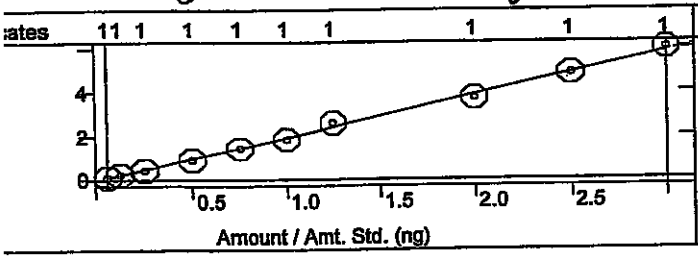
lorophenyl phenyl ether
e Fit: Linear, Origin: Ignore, Weight: None
. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
+0.8008x +0.0369



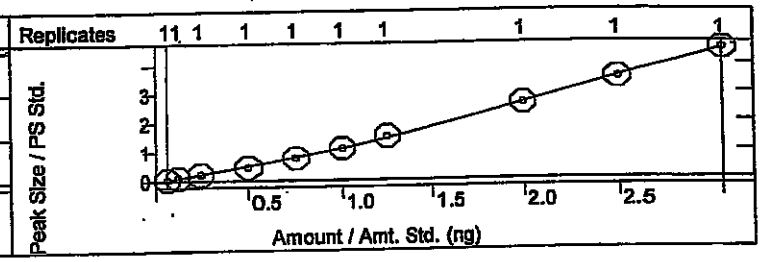
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



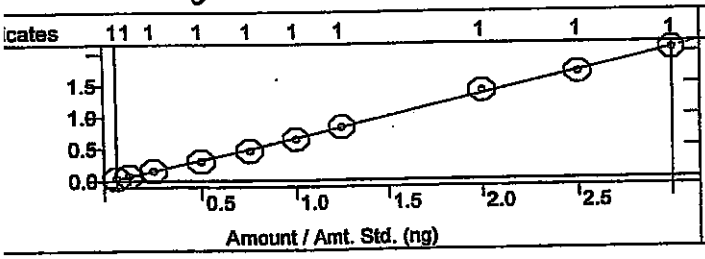
troaniline
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
+1.9592x -0.0342



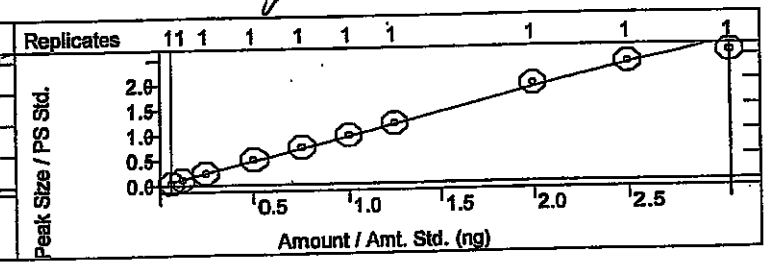
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



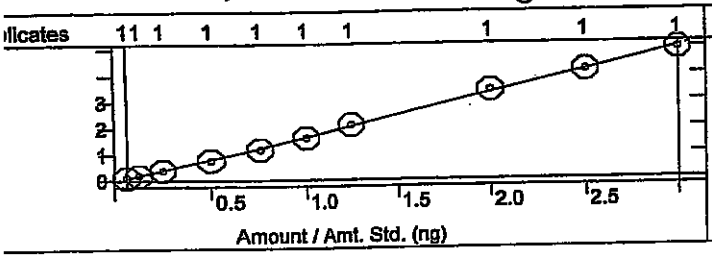
litrosodiphenylamine
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
+0.0060x2 +0.6726x -0.0178



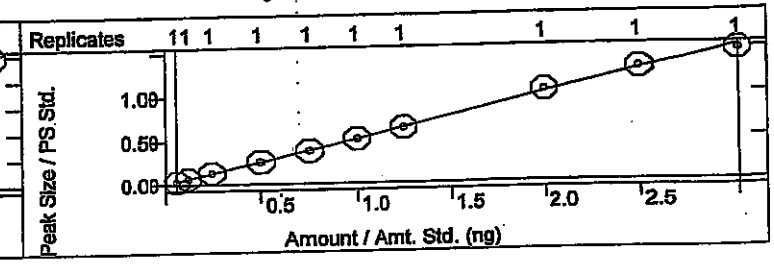
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



l,6-Tribromophenol
rve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
= +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044

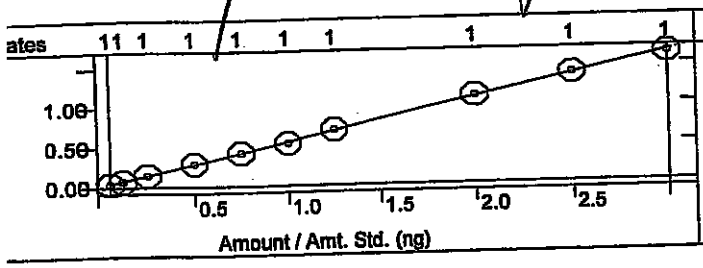


bration Curves Report

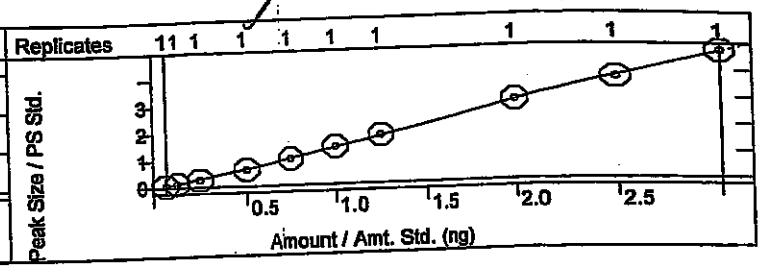
od:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
lc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ole List:	N/A	Detector:	2000 Mass Spec
ence:	N/A	Workstation Version:	Version 6.9
Vorkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Measurement:	Area		

JC 4-28-14

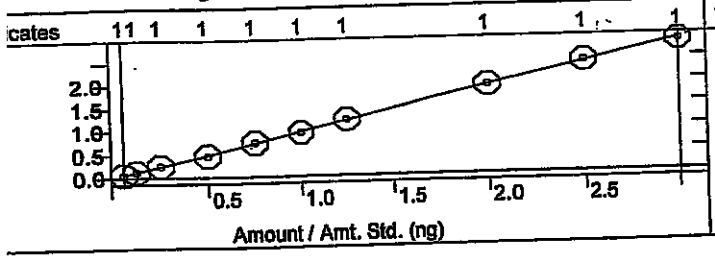
achlorobenzene
ve Fit: Linear, Origin: Ignore, Weight: None
p. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
+0.5470x +0.0070



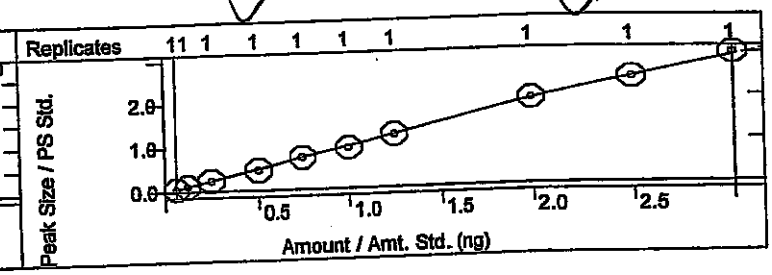
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



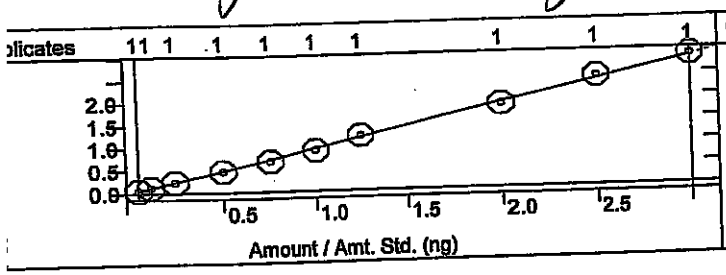
enanthrene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
+0.9606x +0.0012



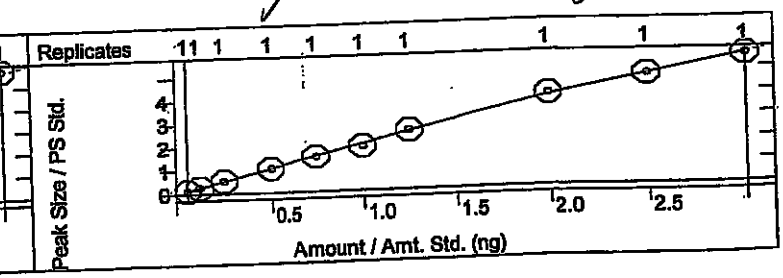
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



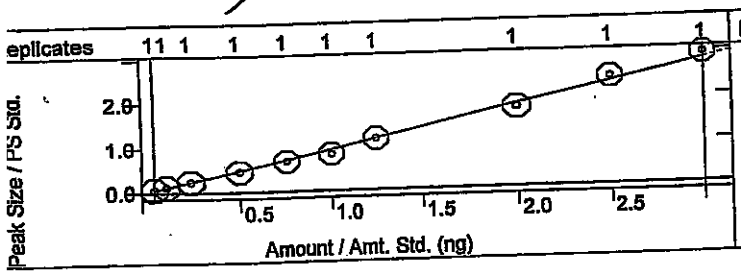
rbazole
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
= +0.9547x -0.0072



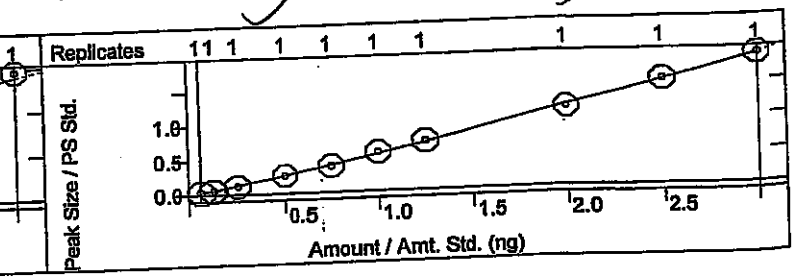
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



luoranthene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
r = +0.9392x -0.0094

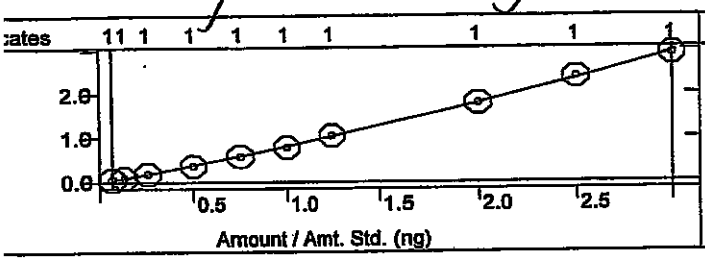


Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098

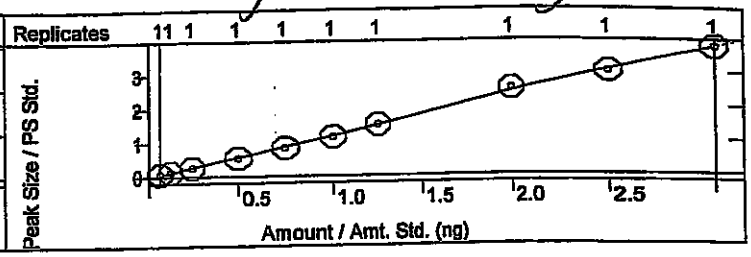


ıod:	c:\varianws\methods\8270 042514.mth		
alc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ıple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

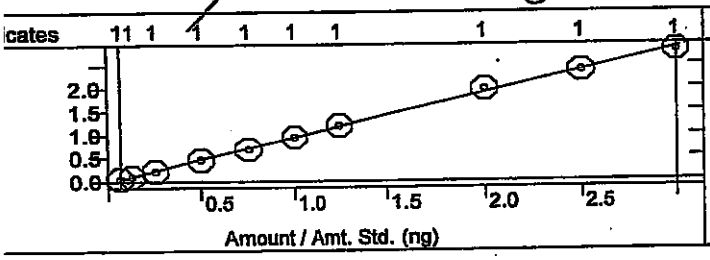
ene
ve Fit: Quadratic, Origin: Ignore, Weight: None
ıp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
+0.0803x2 +0.7448x -0.0135



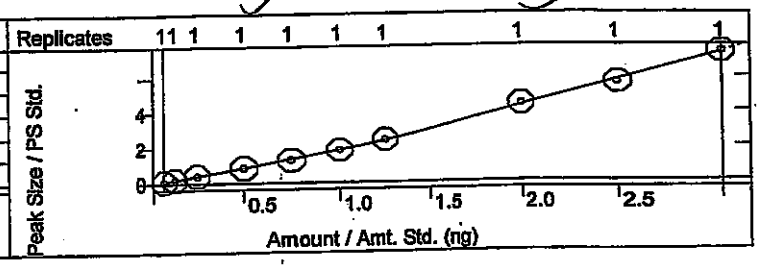
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



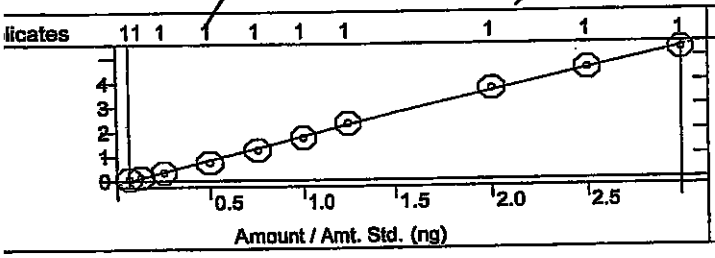
yl benzyl phthalate
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
+0.9570x -0.0113



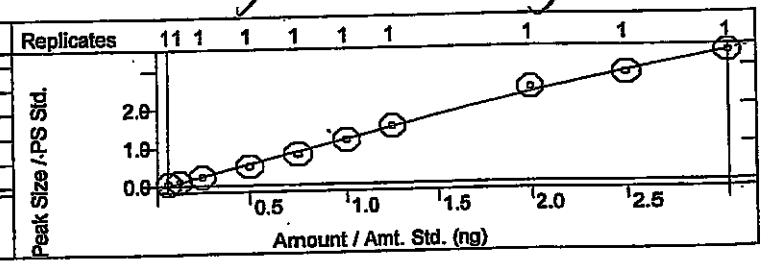
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



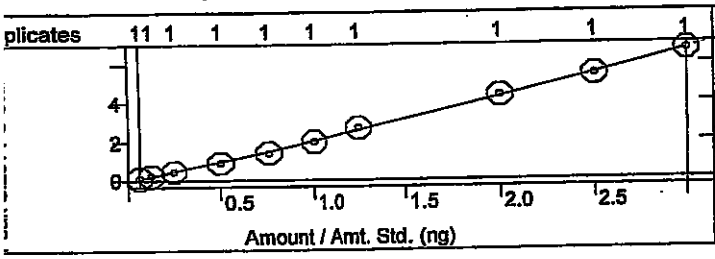
ınz[a]anthracene
ırve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
= -0.0513x2 +1.9868x -0.1374



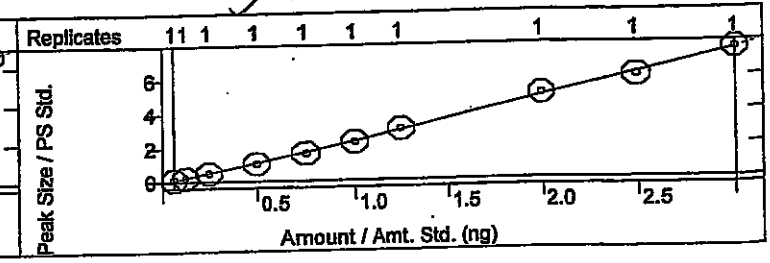
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



hrysene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
= +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



ıbration Curves Report

ɒd:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ılc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
ɔle List:	N/A	Detector:	2000 Mass Spec
ıence:	N/A	Workstation Version:	Version 6.9
Vorkstation (Upgrade)		Calibration Type:	Internal Standard Analysis
: Measurement:	Area		

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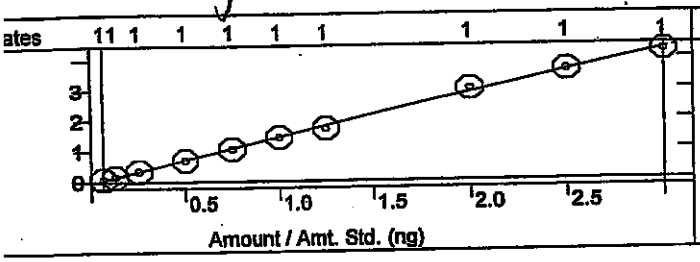
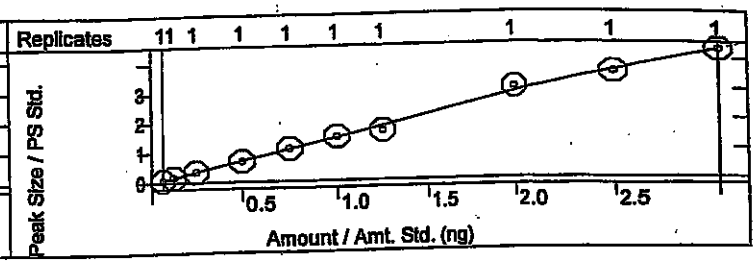
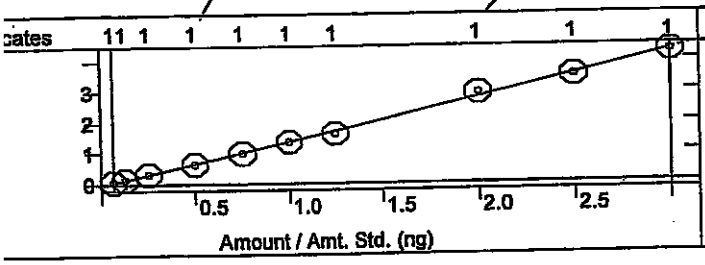
zo(b)fluoranthene
ve Fit: Quadratic, Origin: Ignore, Weight: None
ɔ. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
-0.0187x2 +1.5058x -0.0450



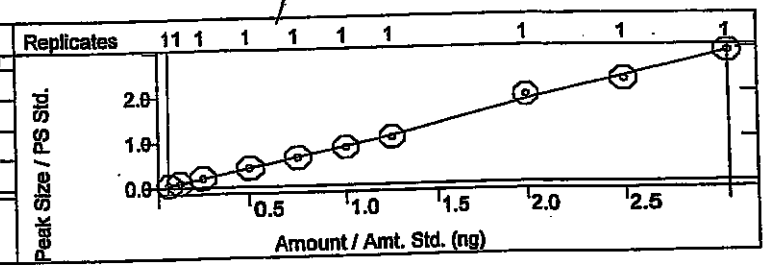
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



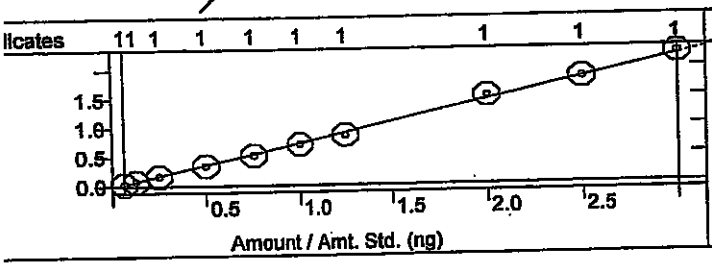
ızo[a]pyrene
ve Fit: Quadratic, Origin: Ignore, Weight: None
ɜp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
+0.0286x2 +1.3562x -0.0307



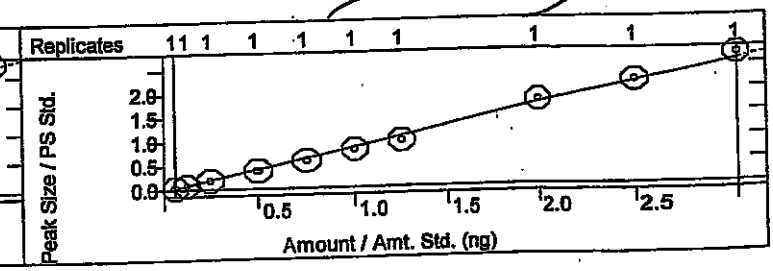
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



ɔenz[a,h]anthracene
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
ısp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
: +0.7370x -0.0131



Benzo[g,h,]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

JL 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS

RRF9	RRF10
2.397	2.657
0.190	0.200
0.970	0.871
0.372	0.365
2.285	2.265
0.796	0.815
2.678	2.673
1.939	1.999
1.408	1.514
0.674	0.682
0.949	0.858
1.664	1.647
0.516	0.494

4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dhw 4/25

JC 4-25-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-28-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dsh 4/28/14

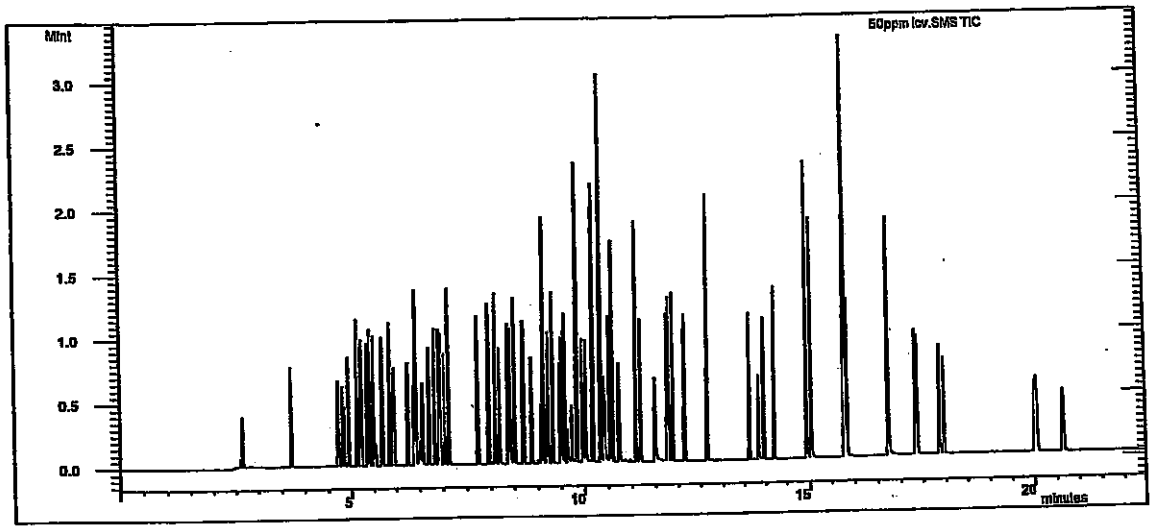
JC 4-26-14

8270C Report

Sample Name: 50ppm icv **Operator Name:** David Melius **Instrument ID:** Elmo

Inst. Method: C:\VarianWS\Methods\8270 042514.mth **Inj. Notes:** st110-0599 **Acquisition Date:** 4/25/2014 2:43:23 PM

Calculation Date: 4/25/2014 3:23:40 PM



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****

Revision Log

****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

7/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407188**
Date Reported:

(4)

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407188

Lab ID: 1407188-001
Client Sample ID: FFOR-CF-0027

Collection Date: 7/3/2014 9:35:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/08/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	7.6 ✓	0.29		mg/Kg-dry	1	14064	7/7/2014 2:12:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 12:14:14 P**
Prep End Date:

Analyst/Date: MD 7/3/14
QA'd/Date: 07/9/14

Prep Batch ID **14064** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14064		Soil			1.9974	0	0	50	50.000	7/3/2014	
LCS-14064		Soil			1.0055	0	0	50	50.000	7/3/2014	
1406A04-001A	Sample #1/Sat 17/3Ft	Soil			1.0226	0	0	50	50.000	7/3/2014	
1406A04-002A	Sample #2/Master 17/	Soil			1.0129	0	0	50	50.000	7/3/2014	
1406A04-003A	Sample #3/Master 17/	Soil			1.9938	0	0	50	50.000	7/3/2014	
1407136-001A	200398342/DEWCAK	Soil			1.9826	0	0	50	50.000	7/3/2014	
1407139-001A	FFOR-CF-0016	MeOH (Soil)			1.0214	0	0	50	50.000	7/3/2014	
1407139-001AMS		MeOH (Soil)			1.0330	0	0	50	50.000	7/3/2014	
1407139-001AMSD		MeOH (Soil)			1.0336	0	0	50	50.000	7/3/2014	
1407139-002A	FFOR-CF-0017	MeOH (Soil)			1.0307	0	0	50	50.000	7/3/2014	
1407139-003A	FFOR-CF-0018	MeOH (Soil)			1.9999	0	0	50	50.000	7/3/2014	
1407139-004A	FFOR-CF-0019	MeOH (Soil)			1.0284	0	0	50	50.000	7/3/2014	
1407139-005A	FFOR-CF-0020	MeOH (Soil)			1.0204	0	0	50	50.000	7/3/2014	
1407139-006A	FFOR-CF-0021	MeOH (Soil)			1.0174	0	0	50	50.000	7/3/2014	
1407139-007A	FFOR-CF-0022	MeOH (Soil)			1.0263	0	0	50	50.000	7/3/2014	
1407139-008A	FFOR-CF-0023	MeOH (Soil)			1.0074	0	0	50	50.000	7/3/2014	
1407139-009A	FFOR-CF-0024	MeOH (Soil)			1.9910	0	0	50	50.000	7/3/2014	
1407139-010A	FFOR-CF-0025	MeOH (Soil)			1.0405	0	0	50	50.000	7/3/2014	
1407139-011A	FFOR-CF-0026	MeOH (Soil)			1.0367	0	0	50	50.000	7/3/2014	
1407161-001A	Cooling Tower Bottom	Soil			1.9855	0	0	50	50.000	7/3/2014	
1407188-001A	FFOR-CF-0027	MeOH (Soil)			1.0162	0	0	50	50.000	7/3/2014	

1407094-0058B .9974

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4379	Hydrogen Peroxide, 30%	13707	Container-01 of 01	0	mL
Chemical	4619	Boiling Stones, Ultra-Pure PTFE	14783	Container-01 of 01	0	mL
Chemical	4620	Hydrochloric Acid, Trace Metal Grade	14786	Container-03 of 06	0	mL

1407019-002A .9752

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/3/2014 12:14:14 P**
Prep End Date:

Prep Batch ID **14064** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Chemical	4651	EnvExp Digestion Tubes 50mL	14932	Container-04 of 05	0	mL
Chemical	4665	Nitric Acid Trace Metal Grade	14969	Container-03 of 06	0	mL
Chemical	4679	FilterMate 2um Teflon-faced PP Filter	15016	Container-06 of 06	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST6010-14139	VHG Custom Std 801 EXP 3/31/15	LCS MS MSD	25250	Container-01 of 02	500	µL
ST6010-14161	VHG Custom Std 1101 EXP 4/30/15	LCS MS MSD	25338	Container-02 of 02	500	µL

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		140164		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	41051	Tubes 4 5		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	~~41045~~ 41076	HNO_3 3 | 4		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	41020	HCl 3 | 4		HCl /		HCl /
	Filters /		Filters /	41079	Filters 4 | 4		Filters /		Filters /
				43379	H_2O_2 1 | 1		TCLP Fluid /		EE Wipes /
				41019	Teflon Chips 1 | 1		TCLP Fluid /		

Standards:

ST6020 -		Exp:	ST6010 -	14139	Exp: 3/31/15		Exp:
ST6020 -		Exp:	ST6010 -	14161	Exp: 4/30/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawan	Digestion Block:
Position: D4	Position:
Therm ID: DBT-22	Therm ID:
Calibration Exp: 8/9/15	Calibration Exp:
Temp: 93.6 °C CF: -0 °C = Corr. Temp: 93.6 °C	Temp: °C CF: °C = Corr. Temp: °C
Analyst: MD Date/Time: 7/3/14 15:07	Analyst: Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:
	Acceptable range: 0.1225g - 0.1275g			
500µL	Pipette No.: P13	Wt. DI (g): 0.5002	Rm Temp (°C): 21.8	Analyst: MD
	Acceptable range: 0.4900g - 0.5100g			
	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:
	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:

Analyst/Date: MD 7/3/14 QA'd/Date: 7/9/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 19704

ICP-OES Analysis Summary

Data Imported By: JWF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: ISIS

Results Data Set: 070714 B14075 **Prep Batch ID:** B14075

Calibration

	Standard ID
ST1	ST6010- 14254
ST2	ST6010- 14260
ST3 (CCV)	ST6010- 14295
ST4	ST6010- 14262

	Standard ID
ST5	ST6010- 14263
ST6	ST6010- 14275
ST7 (CCV CAT)	ST6010- 14286
ST8	ST6010- 14276

	Standard ID
ICV	ST6010- 14237
ICV CAT	ST6010- 14285
ICS ELEM	ST6010- 14294
ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14301

2% Nitric Acid

Reagent ID: 1354

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 100ml	Wt DI (g): 7/7/14 0.1003	Rm Temp (°C): 21.5	Analyst: JWF
Pipette No: P30	Spike Volume: 500µl	Wt DI (g): 0.5029	Rm Temp (°C): 21.5	Analyst: JWF
Pipette No: P35	Spike Volume: 1mL	Wt DI (g): 1.0084	Rm Temp (°C): 21.5	Analyst: JWF
Pipette No: P03	Spike Volume: 800µl	Wt DI (g): 0.8042	Rm Temp (°C): 21.5	Analyst: JWF

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Se	1407724-001A	0.44239	50	50	5	2.21	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result: ____ mg/L

Analyst/Date: JWF 7/7/14 Qa'd by/Date: 07/8/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ~~and~~.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	Applied
8	3	ST7	Applied
9	412	ST8	Applied
10	401	ICV	QC Passed
11	402	ICV CAT	QC Passed
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Failed
15	404	ICS	
16	101	MB-14075	Analyzed
17	102	LCS-14075	Analyzed
18	103	1406935-001B	Samp Limit Failed
19	104	1406935-001B 5X	Analyzed
20	201	1406935-001B 10X	Analyzed
21	202	1406935-001B 20X	Analyzed
22	203	MB-14075RR	Analyzed
23	204	LCS-14075RR	Analyzed
24	105	1407222-001A	Samp Limit Failed
25	106	1407224-001A	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	QC Passed
29	205	1407224-001A 5X	Analyzed
30	107	1407224-002A	Analyzed
31	108	1407224-002AMS	Analyzed
32	109	1407224-002AMSD	Analyzed
33	206	1407224-002APS	Analyzed
34	12	BLANK	Analyzed
35	110	MB-14076	Analyzed
36	111	LCS-14076	Analyzed
37	112	MB-14064	Analyzed
38	113	LCS-14064	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	114	1407076-001A	Samp Limit Failed
43	115	1407076-002A	Samp Limit Failed
44	116	1407076-003A	Samp Limit Failed
45	117	1407076-004A	Samp Limit Failed
46	118	1407076-005A	IS Check Failed
47	119	1407076-007A	Analyzed
48	120	1407076-008A	Analyzed
49	121	1407076-010A	Analyzed
50	122	1407076-011A	Analyzed
51	123	1407076-012A	Samp Limit Failed
52	2	CCV	QC Passed
53	1	CCB	QC Passed
54	3	CCV CAT	Analyzed
55	124	1407076-013A	IS Check Failed

* Notations by importing analyst - JK 7/7/14

changed analyte list

A ↓

A ↓

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
56	125		1407076-014A	Samp Limit Failed
57	126		1407076-015A	IS Check Failed
58	127		1407076-016A	Samp Limit Failed
59	128		1407076-016AMS	Analyzed
60	129		1407076-016AMSD	Analyzed
61	130		1406B99-002A	Analyzed
62	131		1406B99-002AMS	Analyzed
63	132		1406B99-002AMSD	Analyzed
64	133		1406B99-002APS	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	Analyzed
68	134		1407076-005ARR	IS Check Failed
69	135		1407076-005A 2X	IS Check Failed
70	136		1407076-013ARR	IS Check Failed
71	137		1407076-013A 2X	Analyzed
72	138		1407076-015ARR	IS Check Failed
73	139		1407076-015A 2X	Samp Limit Failed
74	140		1407019-0002A	Analyzed
75	141		1407139-001A	Samp Limit Failed
76	142		1407139-001AMS	Analyzed
77	143		1407139-001AMSD	Analyzed
78	2	QC	CCV	QC Passed
79	1	QC	CCB	QC Passed
80	3	QC	CCV CAT	Analyzed
81	144		1407139-002A	Samp Limit Failed
82	145		1407139-003A	Samp Limit Failed
83	146		1407139-004A	Samp Limit Failed
84	147		1407139-005A	Samp Limit Failed
85	148		1407139-006A	Samp Limit Failed
86	149		1407139-007A	Samp Limit Failed
87	150		1407139-008A	Samp Limit Failed
88	151		1407139-009A	Samp Limit Failed
89	152		1407139-010A	Samp Limit Failed
90	153		1407139-011A	Samp Limit Failed
91	2	QC	CCV	QC Failed
92	2	QC	CCV	QC Passed
93	1	QC	CCB	QC Passed
94	3	QC	CCV CAT	Analyzed
95	154		1407188-001A	Samp Limit Failed
96	155		1406B43-001A	IS Check Failed
97	156		1406C94-001B	Samp Limit Failed
98	157		1406C94-001B 2X	Analyzed
99	158		1406C94-008B	Samp Limit Failed
100	159		1407136-001A	Analyzed
101	160		1406A04-001A	Samp Limit Failed
102	301		1406A04-002A	Samp Limit Failed
103	302		1406A04-003A	Samp Limit Failed
104	303		1407161-001A	Samp Limit Failed
105	2	QC	CCV	QC Passed
106	1	QC	CCB	QC Passed
107	3	QC	CCV CAT	Analyzed
108	304		1407076-005A 5X	Samp Limit Failed
109	305		1406CB43-001A 2X	Analyzed
110	306		1406C94-001B 5X	Analyzed

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.		Sample ID	Status
111	307		1406C94-008B 5X	Analyzed
112	308		1406A04-001A 5X	Analyzed
113	309		1406A04-002A 5X	Samp Limit Failed
114	310		1406A04-003A 5X	Samp Limit Failed
115	311		1407161-001A 5X	Analyzed
116	312		1407161-001A 10X	Analyzed
117	2	QC	CCV	QC Failed
118	1	QC	CCB	QC Passed
119	3	QC	CCV CAT	Analyzed
120	7	QC	DI RINSE	QC Passed

As ↑, Ba ↑, Cd ↑, Cr ↑, Ni ↑, Pb ↑, Se ↑, Zn ↑

Sample Information Detail Report
Document Name: 070714 B14075

File Description
Hall Design

Parameters Common to All Samples

Batch ID	070714 B14075
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

*Priority added samples. JWC 7/7/14

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14075	MBLK
2	102	LCS-14075	LCS
3	103	1406935-001B	SAMP
4	104	1406935-001B 5X	SAMP
5	105	1407222-001A	SAMP
6	106	1407224-001A	SAMP
7	107	1407224-002A	SAMP
8	108	1407224-002AMS	MS
9	109	1407224-002AMSD	MSD
10	12	BLANK	
11	110	MB-14076	MBLK
12	111	LCS-14076	LCS
13	112	MB-14064	MBLK
14	113	LCS-14064	LCS
15	114	1407076-001A	SAMP
16	115	1407076-002A	SAMP
17	116	1407076-003A	SAMP
18	117	1407076-004A	SAMP
19	118	1407076-005A	SAMP
20	119	1407076-007A	SAMP
21	120	1407076-008A	SAMP
22	121	1407076-010A	SAMP
23	122	1407076-011A	SAMP
24	123	1407076-012A	SAMP
25	124	1407076-013A	SAMP
26	125	1407076-014A	SAMP
27	126	1407076-015A	SAMP
28	127	1407076-016A	SAMP
29	128	1407076-016AMS	MS
30	129	1407076-016AMSD	MSD
31	130	1406B99-002A	SAMP
32	131	1406B99-002AMS	MS
33	132	1406B99-002AMSD	MSD
34	133	1406B99-002APS	PS
35	134	1407076-005ARR	SAMP
36	135	1407076-005A 2X	SAMP
37	136	1407076-013ARR	SAMP
38	137	1407076-013A 2X	SAMP
39	138	1407076-015ARR	SAMP
40	139	1407076-015A 2X	SAMP
41	140	1407019-0002A	SAMP
42	141	1407139-001A	SAMP
43	142	1407139-001AMS	MS
44	143	1407139-001AMSD	MSD
45	144	1407139-002A	SAMP
46	145	1407139-003A	SAMP
47	146	1407139-004A	SAMP
48	147	1407139-005A	SAMP
49	148	1407139-006A	SAMP
50	149	1407139-007A	SAMP
51	150	1407139-008A	SAMP
52	151	1407139-009A	SAMP
53	152	1407139-010A	SAMP
54	153	1407139-011A	SAMP

55	154	1407188-001A	SAMP
56	155	1406B43-001A	SAMP
57	156	1406C94-001B	SAMP
58	157	1406C94-001B 2X	SAMP
59	158	1406C94-008B	SAMP
60	159	1407136-001A	SAMP
61	160	1406A04-001A	SAMP
62	301	1406A04-002A	SAMP
63	302	1406A04-003A	SAMP
64	303	1407161-001A	SAMP
65	304	1407076-005A 5X	SAMP
66	305	1406CB43-001A 2X	SAMP
67	306	1406C94-001B 5X	SAMP
68	307	1406C94-008B 5X	SAMP
69	308	1406A04-001A 5X	SAMP
70	309	1406A04-002A 5X	SAMP
71	310	1406A04-003A 5X	SAMP
72	311	1407161-001A 5X	SAMP
73	312	1407161-001A 10X	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	NAVAJO_TOTAL METALS		
2	NAVAJO_TOTAL METALS	Recovery 1 of 1	
3	NAVAJO_TOTAL METALS		
4	NAVAJO_TOTAL METALS		
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS		
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10			
11	METALS_TCLP		
12	METALS_TCLP	Recovery 1 of 11	
13	METALS_SOIL		
14	METALS_SOIL	Recovery 1 of 13	
15	METALS_TCLP		
16	METALS_TCLP		
17	METALS_TCLP		
18	METALS_TCLP		
19	METALS_TCLP		
20	METALS_TCLP		
21	METALS_TCLP		
22	METALS_TCLP		
23	METALS_TCLP		
24	METALS_TCLP		
25	METALS_TCLP		
26	METALS_TCLP		
27	METALS_TCLP		
28	METALS_TCLP		
29	METALS_TCLP	Recovery 1 of 28	
30	METALS_TCLP	Recovery 1 of 28	
31	METALS_TCLP		
32	METALS_TCLP	Recovery 1 of 31	
33	METALS_TCLP	Recovery 1 of 31	
34	METALS_TCLP	Recovery 1 of 31	
35	METALS_TCLP		
36	METALS_TCLP		
37	METALS_TCLP		
38	METALS_TCLP		
39	METALS_TCLP		
40	METALS_TCLP		
41	METALS_SOIL		
42	METALS_SOIL		
43	METALS_SOIL	Recovery 1 of 42	
44	METALS_SOIL	Recovery 1 of 42	
45	METALS_SOIL		
46	METALS_SOIL		

47	METALS_SOIL
48	METALS_SOIL
49	METALS_SOIL
50	METALS_SOIL
51	METALS_SOIL
52	METALS_SOIL
53	METALS_SOIL
54	METALS_SOIL
55	METALS_SOIL
56	METALS_SOIL
57	METALS_SOIL
58	METALS_SOIL
59	METALS_SOIL
60	METALS_SOIL
61	METALS_SOIL
62	METALS_SOIL
63	METALS_SOIL
64	METALS_SOIL
65	METALS_TCLP
66	METALS_SOIL
67	METALS_SOIL
68	METALS_SOIL
69	METALS_SOIL
70	METALS_SOIL
71	METALS_SOIL
72	METALS_SOIL
73	METALS_SOIL

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
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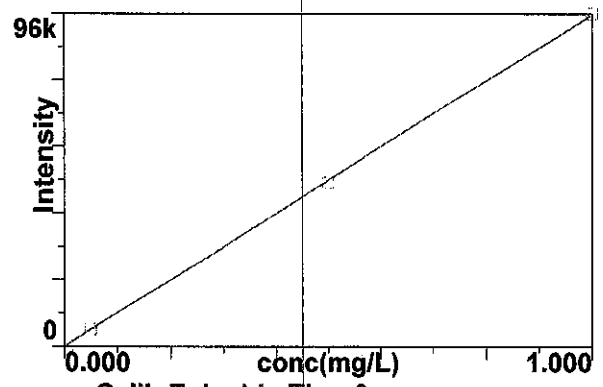
73

Method: ISIS 010814 6010SOIL
Result: 070714 B14075

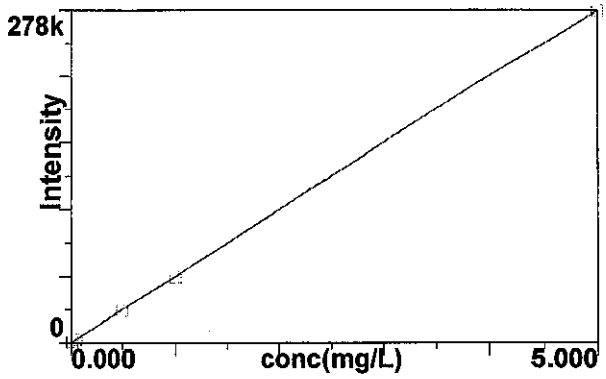
Ag 328.068



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999977

1

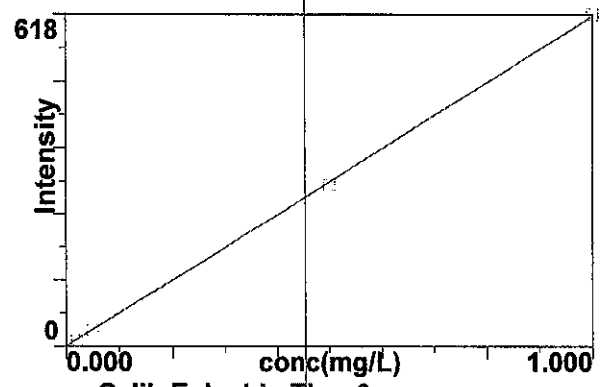
Al 396.153



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

2

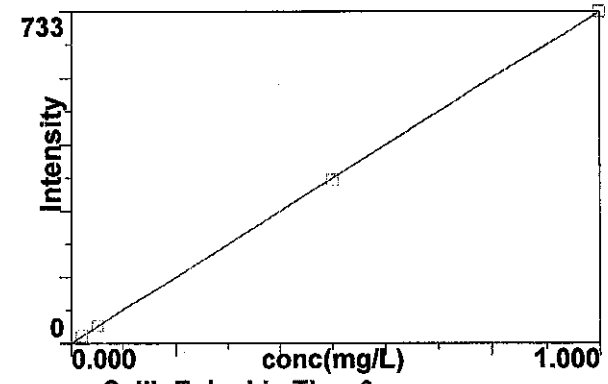
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999948

3

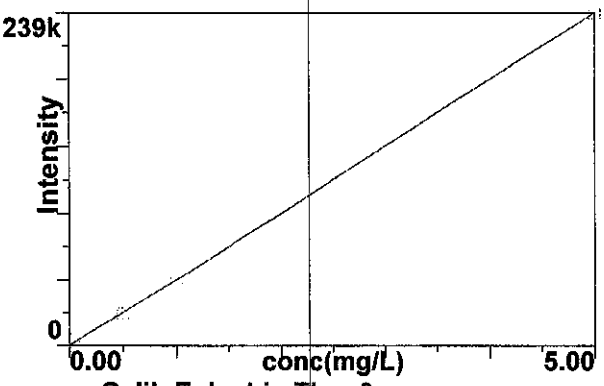
As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999986

4

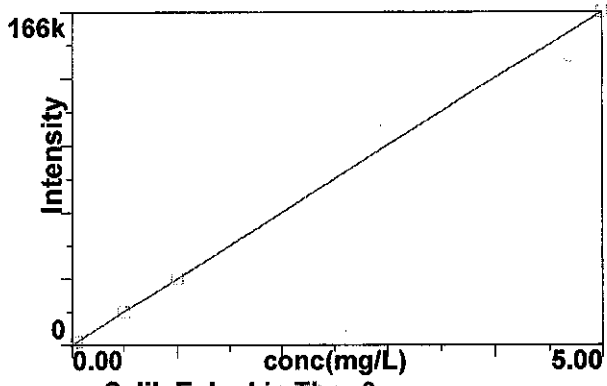
B 249.772



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

5

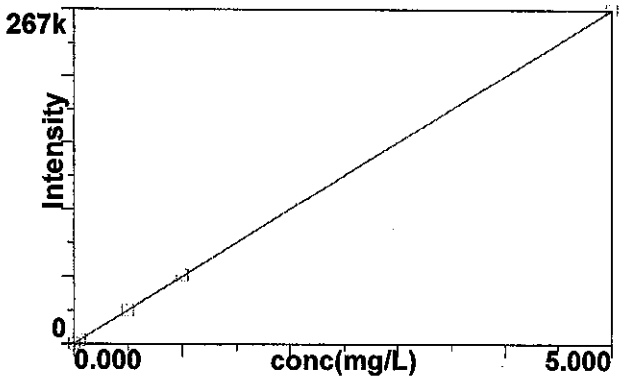
B 249.677



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

6

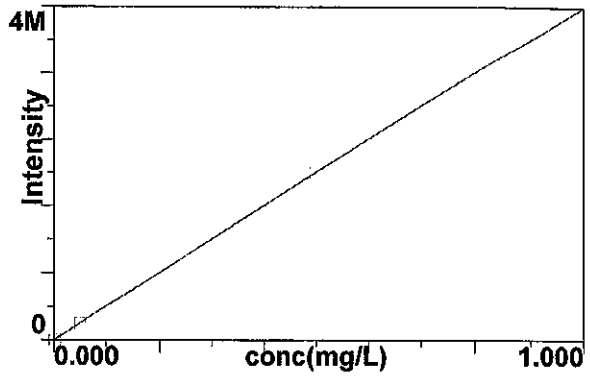
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

7

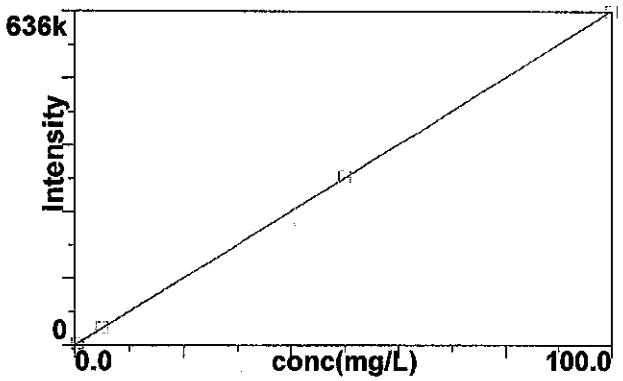
Be 313.107



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

8

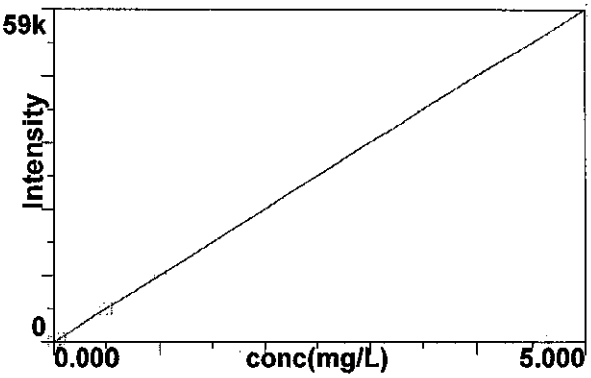
Ca 317.933



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

9

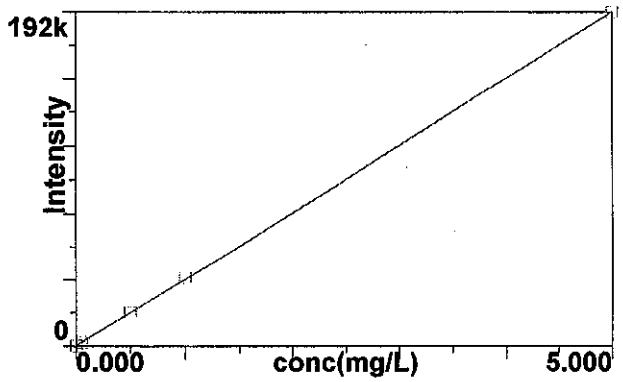
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

10

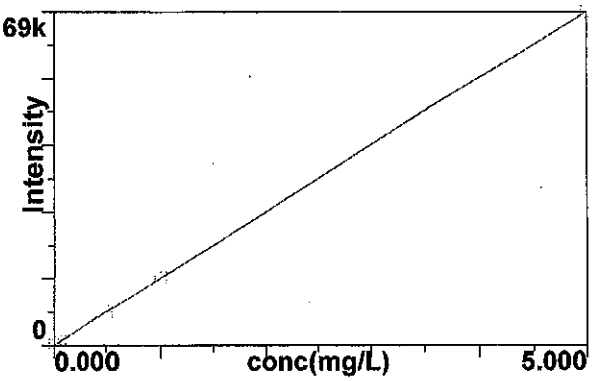
Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

11

Co 228.616

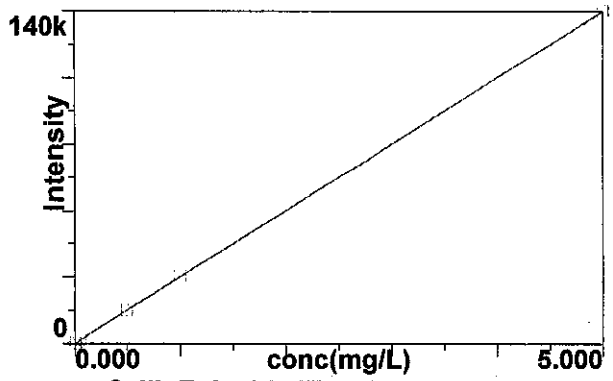


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

12

Method: ISIS 010814 6010SOIL
Result: 070714 B14075

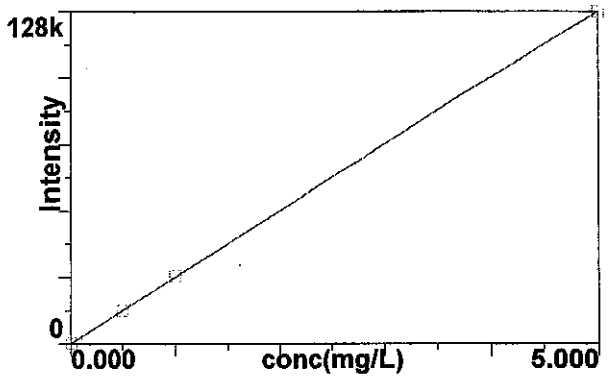
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

13

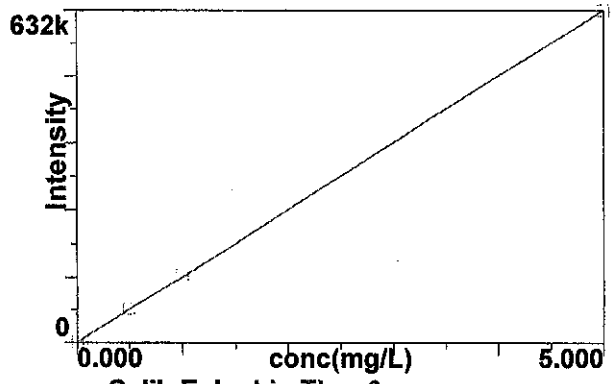
Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

14

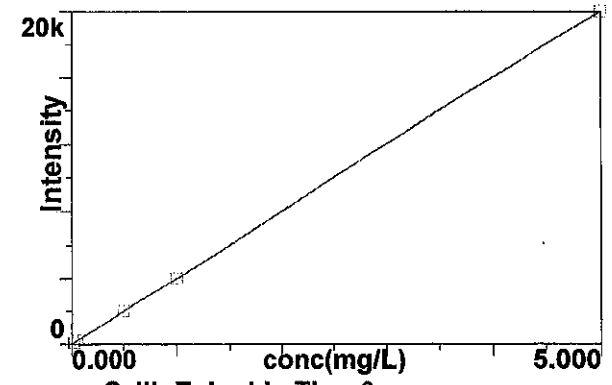
Cu 324.752



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999983

15

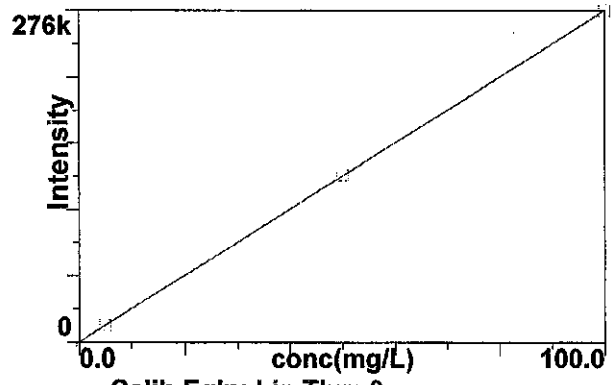
Fe 238.204



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

16

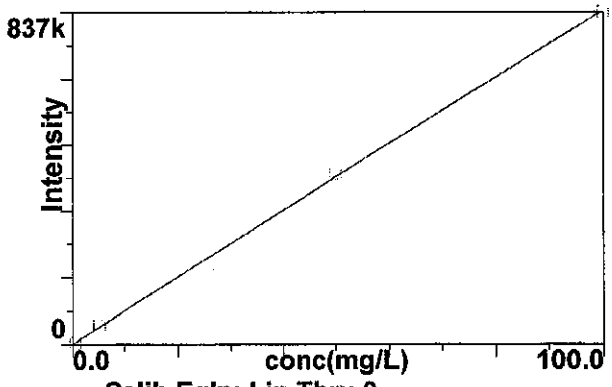
K 766.490



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

17

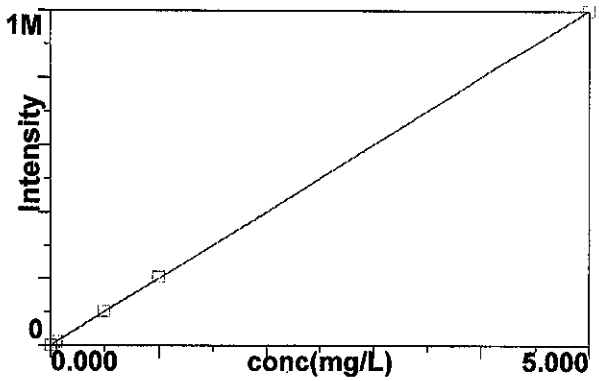
Mg 285.213



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999945

18

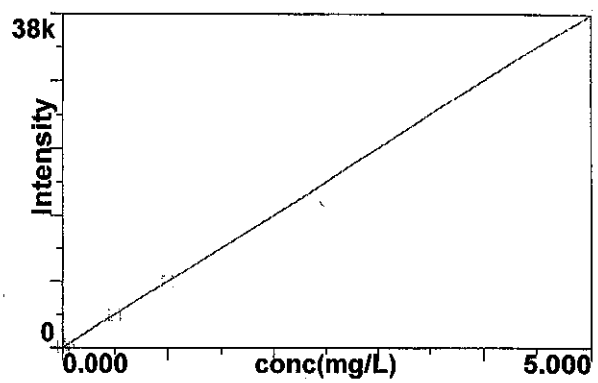
Mn 257.610



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999985

19

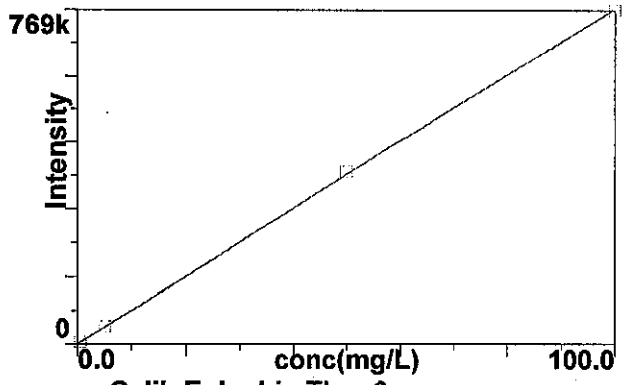
Mo 202.031



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

20

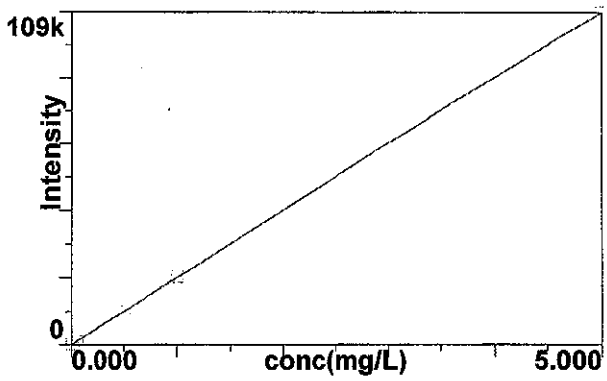
Na 589.592



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999955

21

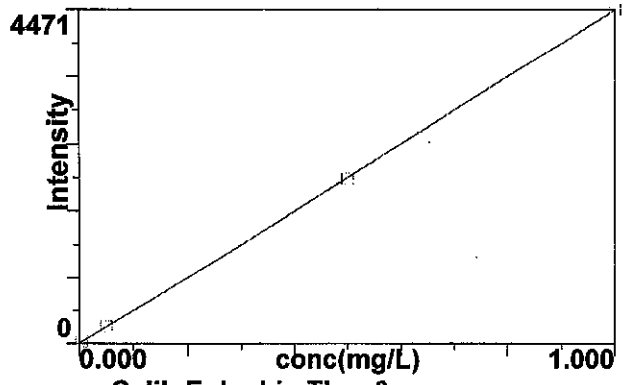
Ni 231.604



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

22

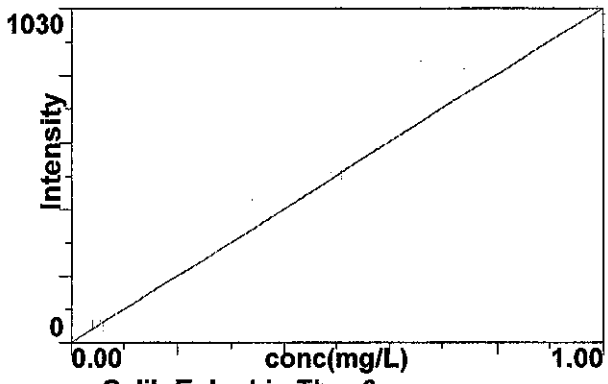
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

23

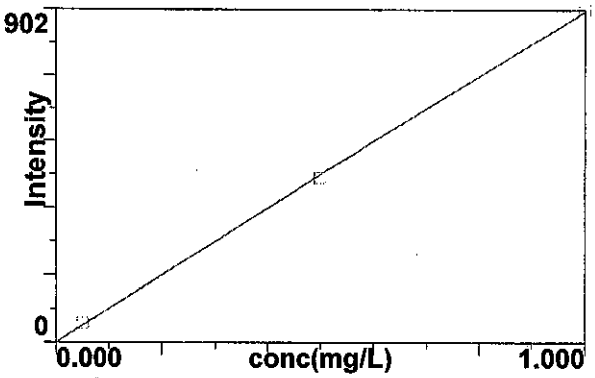
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

24

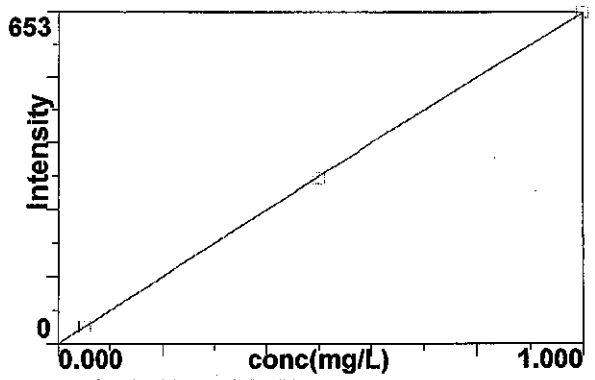
Sb 206.836



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999935

25

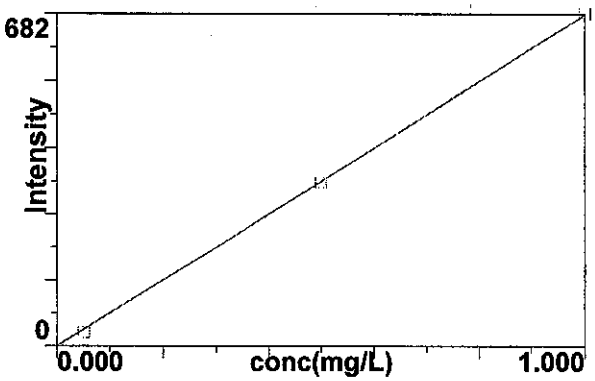
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999984

26

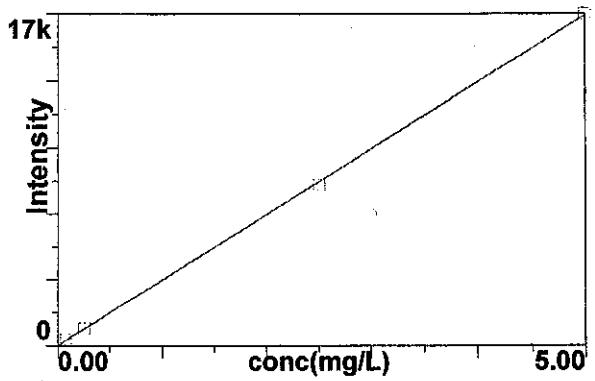
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999952

27

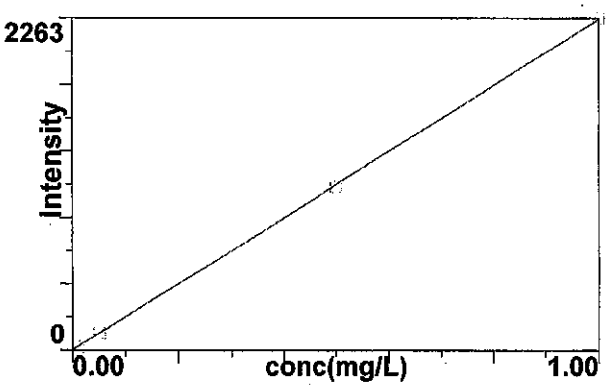
Si 212.412



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999950

28

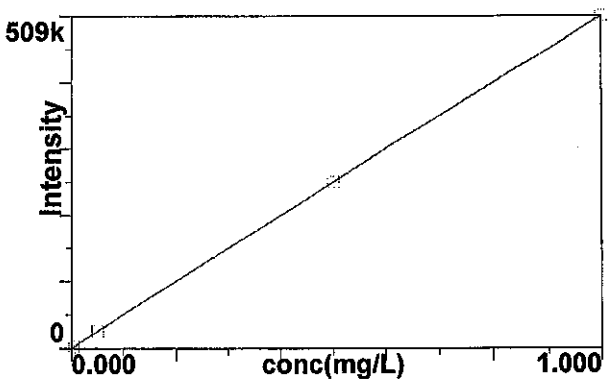
Sn 189.927



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999974

29

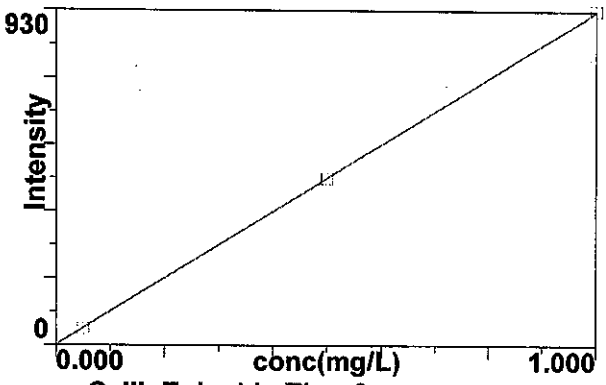
Ti 334.940



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

30

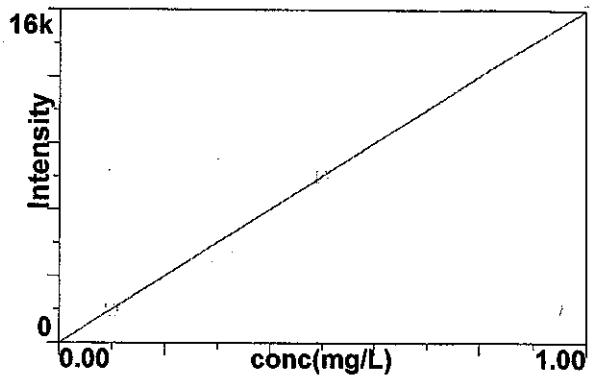
Tl 190.801



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

31

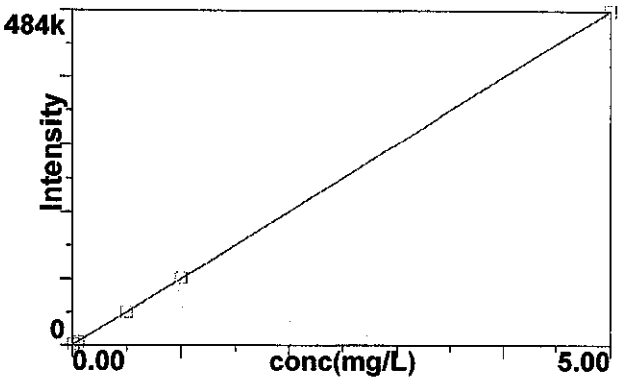
U 385.958



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

32

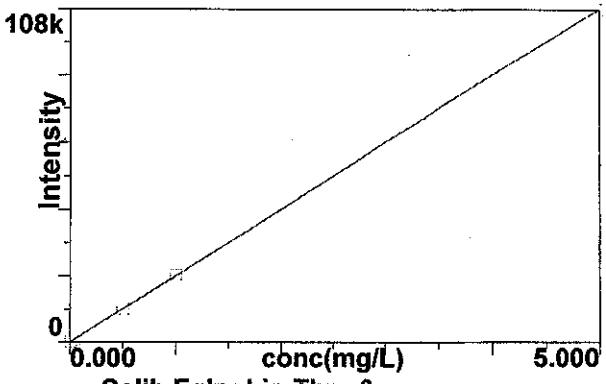
V 292.402



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999995

33

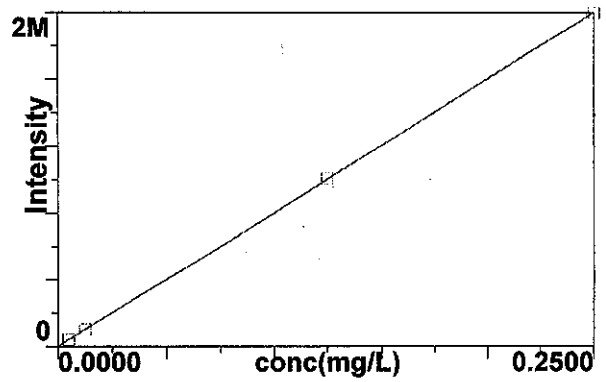
Zn 206.200



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

36

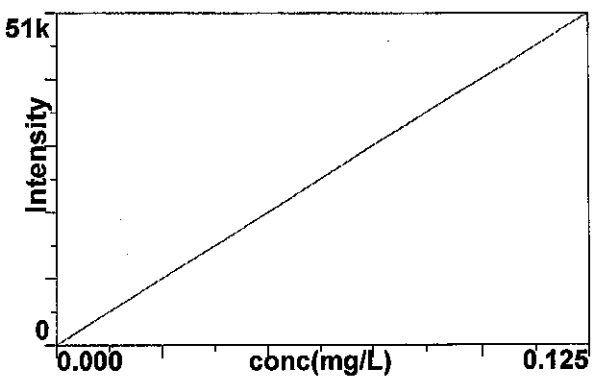
Sr 421.552



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999997

37

Sr 421.552 R

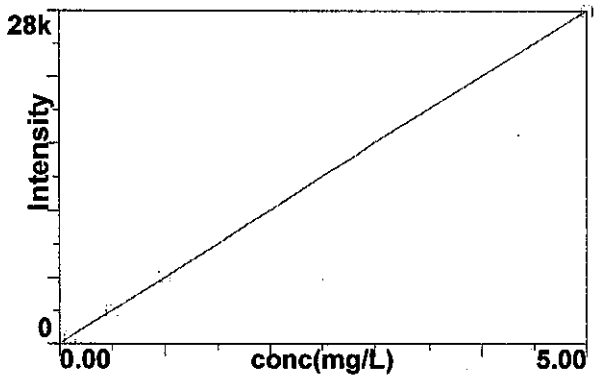


Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

38

Method: ISIS 010814 6010SOIL
Result: 070714 B14075

U 424.167



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999990

39

Analysis Begun

Start Time: 7/7/2014 11:55:00 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/7/2014 9:12:11 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\070714 B14075.sif
Batch ID: 070714 B14075
Results Data Set: 070714 B14075
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/7/2014 11:55:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31985.3	147.25	0.46%	100.00	%
Y 371.029	595703.9	496.36	0.08%	100.00	%
Ag 328.068†	100.0	8.97	8.98%	[0.00]	mg/L
Al 396.153†	26.6	8.75	32.94%	[0.00]	mg/L
As 188.979†	9.8	1.83	18.60%	[0.00]	mg/L
As 193.696†	-5.9	1.49	25.13%	[0.00]	mg/L
B 249.772†	-6191.2	246.15	3.98%	[0.00]	mg/L
B 249.677†	572.3	38.24	6.68%	[0.00]	mg/L
Ba 233.527†	9.4	15.24	162.83%	[0.00]	mg/L
Be 313.107†	2874.0	27.20	0.95%	[0.00]	mg/L
Ca 317.933†	372.1	24.45	6.57%	[0.00]	mg/L
Cd 228.802†	-17.7	1.74	9.86%	[0.00]	mg/L
Cd 226.502†	37.3	3.12	8.35%	[0.00]	mg/L
Co 228.616†	31.2	11.25	36.12%	[0.00]	mg/L
Cr 267.716†	-10.5	1.36	12.97%	[0.00]	mg/L
Cr 205.560†	-35.6	21.52	60.49%	[0.00]	mg/L
Cu 324.752†	-2464.6	20.74	0.84%	[0.00]	mg/L
Fe 238.204†	37.3	4.98	13.32%	[0.00]	mg/L
K 766.490†	1770.4	66.78	3.77%	[0.00]	mg/L
Mg 285.213†	-37.5	6.82	18.17%	[0.00]	mg/L
Mn 257.610†	63.8	17.33	27.17%	[0.00]	mg/L
Mo 202.031†	3.3	4.27	129.11%	[0.00]	mg/L
Na 589.592†	535.2	33.25	6.21%	[0.00]	mg/L
Ni 231.604†	-73.5	4.02	5.47%	[0.00]	mg/L
Pb 220.353†	-27.7	7.68	27.70%	[0.00]	mg/L
Pb 217.000†	8.8	3.40	38.55%	[0.00]	mg/L
Sb 206.836†	-13.0	3.36	25.80%	[0.00]	mg/L
Se 203.985†	0.4	5.56	>999.9%	[0.00]	mg/L
Se 196.026†	-10.2	10.55	103.58%	[0.00]	mg/L
Si 212.412†	121.6	5.82	4.79%	[0.00]	mg/L
Sn 189.927†	5.5	0.90	16.26%	[0.00]	mg/L
Ti 334.940†	-52.2	7.29	13.96%	[0.00]	mg/L
Tl 190.801†	1.1	0.53	48.09%	[0.00]	mg/L
U 385.958†	482.5	25.47	5.28%	[0.00]	mg/L
V 292.402†	768.6	14.92	1.94%	[0.00]	mg/L
Zn 206.200†	5.7	4.02	70.96%	[0.00]	mg/L

Sr 421.552†	1986.9	44.16	2.22%	[0.00] mg/L
Sr 421.552 R†	533.8	40.54	7.59%	[0.00] mg/L
U 424.167†	167.9	82.94	49.41%	[0.00] mg/L

Sequence No.: 2 **Autosampler Location: 408**
Sample ID: ST1 **Date Collected: 7/7/2014 11:56:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32147.9	280.50	0.87%	100.51	%
Y 371.029	587855.1	1991.16	0.34%	98.682	%
Ag 328.068†	436.2	14.36	3.29%	[0.005]	mg/L
Al 396.153†	704.6	27.09	3.84%	[0.01]	mg/L
As 188.979†	9.6	2.30	24.06%	[0.02]	mg/L
As 193.696†	16.2	5.36	33.00%	[0.02]	mg/L
B 249.772†	2168.0	137.84	6.36%	[0.04]	mg/L
B 249.677†	1350.5	23.61	1.75%	[0.04]	mg/L
Ba 233.527†	108.2	12.01	11.10%	[0.002]	mg/L
Be 313.107†	6791.0	38.21	0.56%	[0.002]	mg/L
Ca 317.933†	3294.3	26.96	0.82%	[0.5]	mg/L
Cd 228.802†	24.2	2.74	11.32%	[0.002]	mg/L
Cd 226.502†	71.1	4.33	6.09%	[0.002]	mg/L
Co 228.616†	68.4	7.83	11.45%	[0.006]	mg/L
Cr 267.716†	166.0	6.89	4.15%	[0.006]	mg/L
Cr 205.560†	147.2	3.59	2.44%	[0.006]	mg/L
Cu 324.752†	746.0	20.78	2.79%	[0.006]	mg/L
Fe 238.204†	94.1	11.05	11.74%	[0.02]	mg/L
K 766.490†	1402.6	53.48	3.81%	[0.5]	mg/L
Mg 285.213†	4377.0	11.75	0.27%	[0.5]	mg/L
Mn 257.610†	628.0	14.55	2.32%	[0.002]	mg/L
Mo 202.031†	58.2	0.24	0.40%	[0.008]	mg/L
Na 589.592†	3965.6	24.26	0.61%	[0.5]	mg/L
Ni 231.604†	115.4	9.49	8.23%	[0.005]	mg/L
Pb 220.353†	25.7	0.54	2.09%	[0.005]	mg/L
Si 212.412†	314.0	0.85	0.27%	[0.08]	mg/L
Sn 189.927†	19.6	1.91	9.73%	[0.01]	mg/L
Ti 334.940†	2666.7	51.24	1.92%	[0.005]	mg/L
U 385.958†	1526.9	66.30	4.34%	[0.1]	mg/L
V 292.402†	955.6	8.87	0.93%	[0.01]	mg/L
Zn 206.200†	136.6	5.82	4.26%	[0.005]	mg/L
Sr 421.552†	45308.6	221.82	0.49%	[0.005]	mg/L
U 424.167†	543.4	12.27	2.26%	[0.1]	mg/L

Sequence No.: 3 **Autosampler Location: 409**
Sample ID: ST2 **Date Collected: 7/7/2014 11:58:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow

All 237.0 kPa 0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31538.0	56.64	0.18%	98.602	%
Y 371.029	587187.4	4362.32	0.74%	98.570	%
Ag 328.068†	4709.3	37.77	0.80%	[0.05]	mg/L
Al 396.153†	2796.0	17.58	0.63%	[0.050]	mg/L
As 188.979†	29.7	2.83	9.54%	[0.050]	mg/L
As 193.696†	37.8	6.04	15.98%	[0.050]	mg/L
Ba 233.527†	2706.4	50.34	1.86%	[0.05]	mg/L
Be 313.107†	175097.1	286.44	0.16%	[0.05]	mg/L
Cd 228.802†	589.5	8.93	1.52%	[0.05]	mg/L
Cd 226.502†	1938.2	26.91	1.39%	[0.05]	mg/L
Co 228.616†	688.0	3.33	0.48%	[0.05]	mg/L
Cr 267.716†	1427.2	18.49	1.30%	[0.05]	mg/L
Cr 205.560†	1274.0	23.70	1.86%	[0.05]	mg/L
Cu 324.752†	6447.7	52.71	0.82%	[0.050]	mg/L
Fe 238.204†	214.3	3.47	1.62%	[0.050]	mg/L
Mn 257.610†	14993.7	14.00	0.09%	[0.05]	mg/L
Mo 202.031†	372.5	9.68	2.60%	[0.050]	mg/L
Ni 231.604†	1105.7	15.28	1.38%	[0.05]	mg/L
Pb 220.353†	225.4	2.74	1.21%	[0.05]	mg/L
Pb 217.000†	49.5	6.02	12.17%	[0.05]	mg/L
Sb 206.836†	50.6	4.47	8.83%	[0.050]	mg/L
Se 203.985†	32.8	8.93	27.24%	[0.050]	mg/L
Se 196.026†	27.0	4.16	15.42%	[0.050]	mg/L
Si 212.412†	880.6	15.85	1.80%	[0.25]	mg/L
Sn 189.927†	111.5	3.35	3.01%	[0.05]	mg/L
Ti 334.940†	25724.9	59.99	0.23%	[0.05]	mg/L
Tl 190.801†	44.4	2.23	5.03%	[0.050]	mg/L
V 292.402†	4822.5	22.80	0.47%	[0.05]	mg/L
Zn 206.200†	1112.7	9.30	0.84%	[0.05]	mg/L
Sr 421.552†	116006.6	96.38	0.08%	[0.0125]	mg/L

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Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 7/7/2014 12:00:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32139.6	64.14	0.20%	100.48	%
Y 371.029	578742.7	4959.70	0.86%	97.153	%
Ag 328.068†	47144.2	265.99	0.56%	[0.50]	mg/L
Al 396.153†	26654.6	206.28	0.77%	[0.50]	mg/L
As 188.979†	301.9	3.99	1.32%	[0.50]	mg/L
As 193.696†	362.3	5.43	1.50%	[0.50]	mg/L
B 249.772†	23291.4	942.18	4.05%	[0.50]	mg/L
B 249.677†	16456.9	136.95	0.83%	[0.50]	mg/L
Ba 233.527†	26689.0	101.57	0.38%	[0.50]	mg/L
Be 313.107†	1761558.7	5886.25	0.33%	[0.50]	mg/L
Cd 228.802†	5924.0	56.51	0.95%	[0.50]	mg/L
Cd 226.502†	19285.3	29.70	0.15%	[0.50]	mg/L

Co 228.616†	6981.5	76.16	1.09%	[0.50] mg/L
Cr 267.716†	14018.3	51.22	0.37%	[0.50] mg/L
Cr 205.560†	12659.1	108.07	0.85%	[0.50] mg/L
Cu 324.752†	64205.9	323.56	0.50%	[0.50] mg/L
Fe 238.204†	1983.9	13.82	0.70%	[0.50] mg/L
Mn 257.610†	149473.7	813.94	0.54%	[0.5] mg/L
Mo 202.031†	3732.1	26.93	0.72%	[0.50] mg/L
Ni 231.604†	10888.7	39.83	0.37%	[0.50] mg/L
Pb 220.353†	2219.7	19.50	0.88%	[0.50] mg/L
Pb 217.000†	516.3	4.10	0.79%	[0.50] mg/L
Sb 206.836†	439.8	3.50	0.79%	[0.50] mg/L
Se 203.985†	322.0	5.54	1.72%	[0.50] mg/L
Se 196.026†	337.9	10.51	3.11%	[0.50] mg/L
Si 212.412†	8332.9	46.64	0.56%	[2.5] mg/L
Sn 189.927†	1111.1	4.23	0.38%	[0.50] mg/L
Ti 334.940†	254588.1	1364.64	0.54%	[0.50] mg/L
Tl 190.801†	463.0	3.39	0.73%	[0.50] mg/L
U 385.958†	7939.6	61.87	0.78%	[0.50] mg/L
V 292.402†	48314.6	236.34	0.49%	[0.50] mg/L
Zn 206.200†	10779.7	51.75	0.48%	[0.50] mg/L
Sr 421.552†	1175265.9	2159.35	0.18%	[0.125] mg/L
Sr 421.552 R†	51054.2	311.24	0.61%	[0.125] mg/L
U 424.167†	2776.1	49.82	1.79%	[0.50] mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 7/7/2014 12:02:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32317.4	254.72	0.79%	101.04	%
Y 371.029	581546.5	2206.29	0.38%	97.623	%
Ag 328.068†	95909.8	456.72	0.48%	[1.00]	mg/L
Al 396.153†	54839.5	265.93	0.48%	[1.00]	mg/L
As 188.979†	618.1	8.74	1.41%	[1.00]	mg/L
As 193.696†	733.1	5.98	0.82%	[1.00]	mg/L
B 249.772†	48645.1	1230.66	2.53%	[1.00]	mg/L
B 249.677†	33167.4	61.34	0.18%	[1.00]	mg/L
Ba 233.527†	54391.8	236.90	0.44%	[1.00]	mg/L
Be 313.107†	3515851.7	9513.31	0.27%	[1.00]	mg/L
Cd 228.802†	12092.5	70.44	0.58%	[1.00]	mg/L
Cd 226.502†	39255.1	243.51	0.62%	[1.00]	mg/L
Co 228.616†	14037.9	142.35	1.01%	[1.00]	mg/L
Cr 267.716†	28514.5	153.01	0.54%	[1.00]	mg/L
Cr 205.560†	25946.7	100.76	0.39%	[1.00]	mg/L
Cu 324.752†	130132.0	965.11	0.74%	[1.00]	mg/L
Fe 238.204†	3967.1	31.20	0.79%	[1.00]	mg/L
Mn 257.610†	302632.2	1678.13	0.55%	[1.00]	mg/L
Mo 202.031†	7563.0	52.68	0.70%	[1.00]	mg/L
Ni 231.604†	22185.1	111.95	0.50%	[1.00]	mg/L
Pb 220.353†	4470.7	38.79	0.87%	[1.00]	mg/L
Pb 217.000†	1030.5	13.45	1.30%	[1.00]	mg/L
Sb 206.836†	901.6	8.09	0.90%	[1.00]	mg/L
Se 203.985†	653.4	12.66	1.94%	[1.00]	mg/L
Se 196.026†	681.6	6.10	0.89%	[1.00]	mg/L

Si 212.412†	17075.3	74.01	0.43%	[5.0] mg/L
Sn 189.927†	2262.5	17.52	0.77%	[1.00] mg/L
Ti 334.940†	509460.9	611.67	0.12%	[1.00] mg/L
Tl 190.801†	930.0	2.18	0.23%	[1.00] mg/L
U 385.958†	15899.5	135.42	0.85%	[1.00] mg/L
V 292.402†	98385.9	583.90	0.59%	[1.00] mg/L
Zn 206.200†	21950.1	125.04	0.57%	[1.00] mg/L
Sr 421.552†	2336795.6	3914.37	0.17%	[0.25] mg/L
U 424.167†	5679.3	63.26	1.11%	[1.00] mg/L

Sequence No.: 6 **Autosampler Location: 413**
Sample ID: ST5 **Date Collected: 7/7/2014 12:04:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	31873.4	252.05	0.79%	99.650	%
Y 371.029	578213.5	3691.00	0.64%	97.064	%
Al 396.153†	278409.5	321.97	0.12%	[5.00]	mg/L
B 249.772†	238788.1	583.35	0.24%	[5.00]	mg/L
B 249.677†	165630.4	2332.15	1.41%	[5.00]	mg/L
Ba 233.527†	266525.9	75.58	0.03%	[5.00]	mg/L
Cd 228.802†	59046.9	55.10	0.09%	[5.00]	mg/L
Cd 226.502†	192205.3	218.69	0.11%	[5.00]	mg/L
Co 228.616†	69468.8	207.10	0.30%	[5.00]	mg/L
Cr 267.716†	140347.6	102.17	0.07%	[5.00]	mg/L
Cr 205.560†	127527.2	99.63	0.08%	[5.00]	mg/L
Cu 324.752†	631822.5	1994.89	0.32%	[5.00]	mg/L
Fe 238.204†	19797.5	120.19	0.61%	[5.00]	mg/L
Mn 257.610†	1471989.9	6232.12	0.42%	[5.00]	mg/L
Mo 202.031†	37947.6	72.76	0.19%	[5.00]	mg/L
Ni 231.604†	109475.5	97.28	0.09%	[5.00]	mg/L
V 292.402†	483968.8	573.14	0.12%	[5.00]	mg/L
Zn 206.200†	107888.9	27.08	0.03%	[5.00]	mg/L
U 424.167†	27754.6	120.61	0.43%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	95580	0.00000	0.999977	
Al 396.153	5	Lin Thru 0	0.0	55630	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	615.1	0.00000	0.999948	
As 193.696	4	Lin Thru 0	0.0	731.4	0.00000	0.999986	
B 249.772	4	Lin Thru 0	0.0	47780	0.00000	0.999990	
B 249.677	4	Lin Thru 0	0.0	33130	0.00000	1.000000	
Ba 233.527	5	Lin Thru 0	0.0	53350	0.00000	0.999992	
Be 313.107	4	Lin Thru 0	0.0	3517000	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	6589	0.00000	1.000000	
Cd 228.802	5	Lin Thru 0	0.0	11820	0.00000	0.999989	
Cd 226.502	5	Lin Thru 0	0.0	38470	0.00000	0.999992	
Co 228.616	5	Lin Thru 0	0.0	13900	0.00000	0.999998	
Cr 267.716	5	Lin Thru 0	0.0	28090	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	25520	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	126500	0.00000	0.999983	

Fe 238.204	5	Lin Thru 0	0.0	3960	0.00000	0.999999
K 766.490	1	Lin Thru 0	0.0	2805	0.00000	1.000000
Mg 285.213	1	Lin Thru 0	0.0	8754	0.00000	1.000000
Mn 257.610	5	Lin Thru 0	0.0	294800	0.00000	0.999985
Mo 202.031	5	Lin Thru 0	0.0	7587	0.00000	0.999998
Na 589.592	1	Lin Thru 0	0.0	7931	0.00000	1.000000
Ni 231.604	5	Lin Thru 0	0.0	21910	0.00000	0.999997
Pb 220.353	4	Lin Thru 0	0.0	4465	0.00000	0.999996
Pb 217.000	3	Lin Thru 0	0.0	1031	0.00000	0.999998
Sb 206.836	3	Lin Thru 0	0.0	897.4	0.00000	0.999935
Se 203.985	3	Lin Thru 0	0.0	651.5	0.00000	0.999984
Se 196.026	3	Lin Thru 0	0.0	680.2	0.00000	0.999952
Si 212.412	4	Lin Thru 0	0.0	3399	0.00000	0.999950
Sn 189.927	4	Lin Thru 0	0.0	2254	0.00000	0.999974
Ti 334.940	4	Lin Thru 0	0.0	509400	0.00000	1.000000
Tl 190.801	3	Lin Thru 0	0.0	929.1	0.00000	0.999996
U 385.958	3	Lin Thru 0	0.0	15890	0.00000	0.999994
V 292.402	5	Lin Thru 0	0.0	96850	0.00000	0.999995
Zn 206.200	5	Lin Thru 0	0.0	21590	0.00000	0.999994
Sr 421.552	4	Lin Thru 0	0.0	9358000	0.00000	0.999997
Sr 421.552 R	1	Lin Thru 0	0.0	408400	0.00000	1.000000
U 424.167	4	Lin Thru 0	0.0	5556	0.00000	0.999990

Sequence No.: 7 **Autosampler Location: 411**
Sample ID: ST6 **Date Collected: 7/7/2014 12:05:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST6

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST6

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32119.1	693.87	2.16%	100.42	%
Y 371.029	584254.7	2520.77	0.43%	98.078	%
Ca 317.933†	33509.8	65.39	0.20%	[5]	mg/L
K 766.490†	13964.4	180.23	1.29%	[5]	mg/L
Mg 285.213†	45066.8	138.18	0.31%	[5]	mg/L
Na 589.592†	40208.8	195.97	0.49%	[5]	mg/L

Sequence No.: 8 **Autosampler Location: 3**
Sample ID: ST7 **Date Collected: 7/7/2014 12:06:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST7

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST7

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32287.4	80.45	0.25%	100.94	%
Y 371.029	588908.8	3891.53	0.66%	98.859	%

Ca 317.933†	322542.6	658.13	0.20%	[50] mg/L
K 766.490†	138614.1	361.36	0.26%	[50] mg/L
Mg 285.213†	429265.9	1214.38	0.28%	[50] mg/L
Na 589.592†	393312.6	2486.60	0.63%	[50] mg/L

Sequence No.: 9
Sample ID: ST8
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 412
Date Collected: 7/7/2014 12:08:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST8

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ST8

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029 R	32584.4	469.60	1.44%	101.87	%
Y 371.029	574493.0	934.04	0.16%	96.439	%
Ca 317.933†	636390.8	14053.59	2.21%	[100]	mg/L
K 766.490†	276320.2	1057.93	0.38%	[100]	mg/L
Mg 285.213†	837435.2	17073.55	2.04%	[100]	mg/L
Na 589.592†	768569.8	15635.20	2.03%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	95580	0.00000	0.999977	
Al 396.153	5	Lin Thru 0	0.0	55630	0.00000	0.999987	
As 188.979	4	Lin Thru 0	0.0	615.1	0.00000	0.999948	
As 193.696	4	Lin Thru 0	0.0	731.4	0.00000	0.999986	
B 249.772	4	Lin Thru 0	0.0	47780	0.00000	0.999990	
B 249.677	4	Lin Thru 0	0.0	33130	0.00000	1.000000	
Ba 233.527	5	Lin Thru 0	0.0	53350	0.00000	0.999992	
Be 313.107	4	Lin Thru 0	0.0	3517000	0.00000	1.000000	
Ca 317.933	4	Lin Thru 0	0.0	6382	0.00000	0.999983	
Cd 228.802	5	Lin Thru 0	0.0	11820	0.00000	0.999989	
Cd 226.502	5	Lin Thru 0	0.0	38470	0.00000	0.999992	
Co 228.616	5	Lin Thru 0	0.0	13900	0.00000	0.999998	
Cr 267.716	5	Lin Thru 0	0.0	28090	0.00000	0.999995	
Cr 205.560	5	Lin Thru 0	0.0	25520	0.00000	0.999994	
Cu 324.752	5	Lin Thru 0	0.0	126500	0.00000	0.999983	
Fe 238.204	5	Lin Thru 0	0.0	3960	0.00000	0.999999	
K 766.490	4	Lin Thru 0	0.0	2765	0.00000	0.999999	
Mg 285.213	4	Lin Thru 0	0.0	8418	0.00000	0.999945	
Mn 257.610	5	Lin Thru 0	0.0	294800	0.00000	0.999985	
Mo 202.031	5	Lin Thru 0	0.0	7587	0.00000	0.999998	
Na 589.592	4	Lin Thru 0	0.0	7722	0.00000	0.999955	
Ni 231.604	5	Lin Thru 0	0.0	21910	0.00000	0.999997	
Pb 220.353	4	Lin Thru 0	0.0	4465	0.00000	0.999996	
Pb 217.000	3	Lin Thru 0	0.0	1031	0.00000	0.999998	
Sb 206.836	3	Lin Thru 0	0.0	897.4	0.00000	0.999935	
Se 203.985	3	Lin Thru 0	0.0	651.5	0.00000	0.999984	
Se 196.026	3	Lin Thru 0	0.0	680.2	0.00000	0.999952	
Si 212.412	4	Lin Thru 0	0.0	3399	0.00000	0.999950	
Sn 189.927	4	Lin Thru 0	0.0	2254	0.00000	0.999974	
Ti 334.940	4	Lin Thru 0	0.0	509400	0.00000	1.000000	
Tl 190.801	3	Lin Thru 0	0.0	929.1	0.00000	0.999996	
U 385.958	3	Lin Thru 0	0.0	15890	0.00000	0.999994	
V 292.402	5	Lin Thru 0	0.0	96850	0.00000	0.999995	

Zn 206.200	5	Lin Thru 0	0.0	21590	0.00000	0.999994
Sr 421.552	4	Lin Thru 0	0.0	9358000	0.00000	0.999997
Sr 421.552 R	1	Lin Thru 0	0.0	408400	0.00000	1.000000
U 424.167	4	Lin Thru 0	0.0	5556	0.00000	0.999990

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 401
Date Collected: 7/7/2014 12:09:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32093.6	100.34	%	1.083				1.08%
Y 371.029	586950.7	98.531	%	0.6122				0.62%
Ag 328.068†	49249.3	0.51525	mg/L	0.003025	0.51525	mg/L	0.003025	0.59%
QC value within limits for Ag 328.068 Recovery = 103.05%								
Al 396.153†	28109.5	0.50532	mg/L	0.003590	0.50532	mg/L	0.003590	0.71%
QC value within limits for Al 396.153 Recovery = 101.06%								
As 188.979†	319.9	0.51997	mg/L	0.006164	0.51997	mg/L	0.006164	1.19%
QC value within limits for As 188.979 Recovery = 103.99%								
As 193.696†	378.7	0.51771	mg/L	0.013709	0.51771	mg/L	0.013709	2.65%
B 249.772†	24830.5	0.51968	mg/L	0.012994	0.51968	mg/L	0.012994	2.50%
QC value within limits for B 249.772 Recovery = 103.94%								
B 249.677†	17211.6	0.520	mg/L	0.0032	0.520	mg/L	0.0032	0.62%
Ba 233.527†	27899.3	0.52297	mg/L	0.003420	0.52297	mg/L	0.003420	0.65%
QC value within limits for Ba 233.527 Recovery = 104.59%								
Be 313.107†	1834609.6	0.52160	mg/L	0.000813	0.52160	mg/L	0.000813	0.16%
QC value within limits for Be 313.107 Recovery = 104.32%								
Ca 317.933†	326.4	0.05114	mg/L	0.001952	0.05114	mg/L	0.001952	3.82%
Cd 228.802†	6131.8	0.51875	mg/L	0.004907	0.51875	mg/L	0.004907	0.95%
QC value within limits for Cd 228.802 Recovery = 103.75%								
Cd 226.502†	20032.3	0.52068	mg/L	0.004455	0.52068	mg/L	0.004455	0.86%
Co 228.616†	7134.2	0.51326	mg/L	0.005900	0.51326	mg/L	0.005900	1.15%
QC value within limits for Co 228.616 Recovery = 102.65%								
Cr 267.716†	14695.1	0.52321	mg/L	0.003611	0.52321	mg/L	0.003611	0.69%
Cr 205.560†	13292.9	0.52087	mg/L	0.004793	0.52087	mg/L	0.004793	0.92%
QC value within limits for Cr 205.560 Recovery = 104.17%								
Cu 324.752†	66903.5	0.52877	mg/L	0.003154	0.52877	mg/L	0.003154	0.60%
QC value within limits for Cu 324.752 Recovery = 105.75%								
Fe 238.204†	2108.6	0.53249	mg/L	0.007330	0.53249	mg/L	0.007330	1.38%
QC value within limits for Fe 238.204 Recovery = 106.50%								
K 766.490†	55.0	0.01989	mg/L	0.050518	0.01989	mg/L	0.050518	253.99%
Mg 285.213†	13.4	0.00160	mg/L	0.001249	0.00160	mg/L	0.001249	78.27%
Mn 257.610†	155746.0	0.52839	mg/L	0.003905	0.52839	mg/L	0.003905	0.74%
QC value within limits for Mn 257.610 Recovery = 105.68%								
Mo 202.031†	3900.6	0.51409	mg/L	0.004598	0.51409	mg/L	0.004598	0.89%
QC value within limits for Mo 202.031 Recovery = 102.82%								
Na 589.592†	82.1	0.01063	mg/L	0.018058	0.01063	mg/L	0.018058	169.95%
Ni 231.604†	11570.8	0.52823	mg/L	0.003973	0.52823	mg/L	0.003973	0.75%
QC value within limits for Ni 231.604 Recovery = 105.65%								
Pb 220.353†	2342.4	0.52466	mg/L	0.006639	0.52466	mg/L	0.006639	1.27%
QC value within limits for Pb 220.353 Recovery = 104.93%								
Pb 217.000†	531.5	0.51563	mg/L	0.004940	0.51563	mg/L	0.004940	0.96%
Sb 206.836†	453.0	0.50486	mg/L	0.006309	0.50486	mg/L	0.006309	1.25%
QC value within limits for Sb 206.836 Recovery = 100.97%								
Se 203.985†	334.5	0.51338	mg/L	0.014787	0.51338	mg/L	0.014787	2.88%

Se 196.026†	352.2	0.51783 mg/L	0.019572	0.51783 mg/L	0.019572	3.78%
QC value within limits for Se 196.026 Recovery = 103.57%						
Si 212.412†	8732.8	2.569 mg/L	0.0209	2.569 mg/L	0.0209	0.81%
QC value within limits for Si 212.412 Recovery = 102.77%						
Sn 189.927†	1161.1	0.51502 mg/L	0.003470	0.51502 mg/L	0.003470	0.67%
QC value within limits for Sn 189.927 Recovery = 103.00%						
Ti 334.940†	265471.8	0.52113 mg/L	0.000950	0.52113 mg/L	0.000950	0.18%
QC value within limits for Ti 334.940 Recovery = 104.23%						
Tl 190.801†	472.4	0.50846 mg/L	0.002575	0.50846 mg/L	0.002575	0.51%
QC value within limits for Tl 190.801 Recovery = 101.69%						
U 385.958†	8322.3	0.52373 mg/L	0.006736	0.52373 mg/L	0.006736	1.29%
V 292.402†	50648.7	0.52295 mg/L	0.003472	0.52295 mg/L	0.003472	0.66%
QC value within limits for V 292.402 Recovery = 104.59%						
Zn 206.200†	11314.8	0.52403 mg/L	0.005432	0.52403 mg/L	0.005432	1.04%
QC value within limits for Zn 206.200 Recovery = 104.81%						
Sr 421.552†	1193765.3	0.12757 mg/L	0.000177	0.12757 mg/L	0.000177	0.14%
QC value within limits for Sr 421.552 Recovery = 102.05%						
Sr 421.552 R†	52258.0	0.128 mg/L	0.0006	0.128 mg/L	0.0006	0.43%
U 424.167†	2893.6	0.52083 mg/L	0.013810	0.52083 mg/L	0.013810	2.65%
QC value within limits for U 424.167 Recovery = 104.17%						

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 402**
Sample ID: ICV CAT **Date Collected: 7/7/2014 12:11:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV CAT

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	33164.3	103.69	%	0.501				0.48%
Y 371.029	599546.9	100.65	%	0.761				0.76%
Ag 328.068†	-18.9	-0.00020	mg/L	0.000154	-0.00020	mg/L	0.000154	77.84%
Al 396.153†	108.2	0.00194	mg/L	0.000433	0.00194	mg/L	0.000433	22.25%
As 188.979†	1.9	0.00303	mg/L	0.005119	0.00303	mg/L	0.005119	169.16%
As 193.696†	-4.8	-0.00658	mg/L	0.004798	-0.00658	mg/L	0.004798	72.89%
B 249.772†	-1601.9	-0.03353	mg/L	0.003377	-0.03353	mg/L	0.003377	10.07%
B 249.677†	52.2	0.002	mg/L	0.0001	0.002	mg/L	0.0001	6.59%
Ba 233.527†	-6.1	-0.00011	mg/L	0.000184	-0.00011	mg/L	0.000184	161.06%
Be 313.107†	518.9	0.00015	mg/L	0.000024	0.00015	mg/L	0.000024	16.49%
Ca 317.933†	323002.7	50.612	mg/L	0.0546	50.612	mg/L	0.0546	0.11%
QC value within limits for Ca 317.933 Recovery = 101.22%								
Cd 228.802†	-12.6	-0.00106	mg/L	0.000244	-0.00106	mg/L	0.000244	22.93%
Cd 226.502†	8.1	0.00021	mg/L	0.000179	0.00021	mg/L	0.000179	85.75%
Co 228.616†	11.0	0.00079	mg/L	0.000338	0.00079	mg/L	0.000338	42.71%
Cr 267.716†	25.9	0.00092	mg/L	0.000154	0.00092	mg/L	0.000154	16.63%
Cr 205.560†	-9.8	-0.00038	mg/L	0.000661	-0.00038	mg/L	0.000661	173.09%
Cu 324.752†	-236.9	-0.00187	mg/L	0.000389	-0.00187	mg/L	0.000389	20.76%
Fe 238.204†	3.3	0.00083	mg/L	0.000895	0.00083	mg/L	0.000895	107.74%
K 766.490†	135805.4	49.115	mg/L	0.0752	49.115	mg/L	0.0752	0.15%
QC value within limits for K 766.490 Recovery = 98.23%								
Mg 285.213†	421926.4	50.123	mg/L	0.0848	50.123	mg/L	0.0848	0.17%
QC value within limits for Mg 285.213 Recovery = 100.25%								
Mn 257.610†	542.1	0.00184	mg/L	0.000145	0.00184	mg/L	0.000145	7.91%
Mo 202.031†	14.6	0.00193	mg/L	0.000831	0.00193	mg/L	0.000831	43.14%
Na 589.592†	385086.5	49.866	mg/L	0.1059	49.866	mg/L	0.1059	0.21%
QC value within limits for Na 589.592 Recovery = 99.73%								

Ni 231.604†	-4.7	-0.00022	mg/L	0.000259	-0.00022	mg/L	0.000259 120.47%
Pb 220.353†	8.5	0.00191	mg/L	0.001737	0.00191	mg/L	0.001737 91.11%
Pb 217.000†	0.0	0.00003	mg/L	0.003701	0.00003	mg/L	0.003701 >999.9%
Sb 206.836†	-2.4	-0.00265	mg/L	0.001368	-0.00265	mg/L	0.001368 51.62%
Se 203.985†	-36.0	-0.05532	mg/L	0.015357	-0.05532	mg/L	0.015357 27.76%
Se 196.026†	-18.5	-0.02713	mg/L	0.009640	-0.02713	mg/L	0.009640 35.54%
Si 212.412†	-12.9	-0.004	mg/L	0.0011	-0.004	mg/L	0.0011 28.39%
Sn 189.927†	14.7	0.00650	mg/L	0.003377	0.00650	mg/L	0.003377 51.95%
Ti 334.940†	991.6	0.00195	mg/L	0.000038	0.00195	mg/L	0.000038 1.93%
Tl 190.801†	8.6	0.00929	mg/L	0.003253	0.00929	mg/L	0.003253 35.01%
U 385.958†	68.7	0.00433	mg/L	0.000428	0.00433	mg/L	0.000428 9.89%
V 292.402†	150.3	0.00155	mg/L	0.000085	0.00155	mg/L	0.000085 5.48%
Zn 206.200†	28.3	0.00131	mg/L	0.000191	0.00131	mg/L	0.000191 14.55%
Sr 421.552†	2289.6	0.00024	mg/L	0.000008	0.00024	mg/L	0.000008 3.09%
Sr 421.552 R†	17.0	0.000	mg/L	0.0001	0.000	mg/L	0.0001 258.21%
U 424.167†	-186.3	-0.03353	mg/L	0.012149	-0.03353	mg/L	0.012149 36.23%

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 12:12:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31151.5	97.393	%	0.8301				0.85%
Y 371.029	571389.0	95.918	%	0.5743				0.60%
Ag 328.068†	5.0	0.00005	mg/L	0.000264	0.00005	mg/L	0.000264	504.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	4.7	0.00008	mg/L	0.000110	0.00008	mg/L	0.000110	130.66%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.9	0.00149	mg/L	0.004176	0.00149	mg/L	0.004176	279.57%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-4.3	-0.00582	mg/L	0.012294	-0.00582	mg/L	0.012294	211.40%
B 249.772†	-600.6	-0.01257	mg/L	0.004617	-0.01257	mg/L	0.004617	36.73%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	46.2	0.001	mg/L	0.0009	0.001	mg/L	0.0009	62.26%
Ba 233.527†	-1.0	-0.00002	mg/L	0.000336	-0.00002	mg/L	0.000336	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	246.3	0.00007	mg/L	0.000025	0.00007	mg/L	0.000025	35.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-5.9	-0.00092	mg/L	0.004227	-0.00092	mg/L	0.004227	458.21%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-2.9	-0.00025	mg/L	0.000287	-0.00025	mg/L	0.000287	115.82%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	6.6	0.00017	mg/L	0.000092	0.00017	mg/L	0.000092	53.15%
Co 228.616†	-11.5	-0.00083	mg/L	0.000376	-0.00083	mg/L	0.000376	45.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.9	0.00007	mg/L	0.000197	0.00007	mg/L	0.000197	295.97%
Cr 205.560†	4.0	0.00016	mg/L	0.000262	0.00016	mg/L	0.000262	168.81%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-180.2	-0.00142	mg/L	0.000065	-0.00142	mg/L	0.000065	4.57%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	2.8	0.00071	mg/L	0.003068	0.00071	mg/L	0.003068	434.19%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	229.0	0.08282	mg/L	0.033058	0.08282	mg/L	0.033058	39.92%

QC value within limits for K 766.490 Recovery = Not calculated

Mg 285.213†	3.3	0.00039 mg/L	0.000694	0.00039 mg/L	0.000694	176.37%
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	6.8	0.00002 mg/L	0.000063	0.00002 mg/L	0.000063	273.70%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.3	0.00057 mg/L	0.000148	0.00057 mg/L	0.000148	25.83%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	217.8	0.02821 mg/L	0.009204	0.02821 mg/L	0.009204	32.63%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-2.3	-0.00011 mg/L	0.000335	-0.00011 mg/L	0.000335	314.00%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	0.7	0.00016 mg/L	0.001696	0.00016 mg/L	0.001696	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	-2.4	-0.00230 mg/L	0.004110	-0.00230 mg/L	0.004110	178.33%
Sb 206.836†	5.0	0.00554 mg/L	0.004724	0.00554 mg/L	0.004724	85.33%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 203.985†	7.0	0.01080 mg/L	0.010465	0.01080 mg/L	0.010465	96.91%
Se 196.026†	-9.6	-0.01408 mg/L	0.005547	-0.01408 mg/L	0.005547	39.39%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 212.412†	14.2	0.004 mg/L	0.0032	0.004 mg/L	0.0032	76.17%
QC value within limits for Si 212.412 Recovery = Not calculated							
Sn 189.927†	0.5	0.00020 mg/L	0.001311	0.00020 mg/L	0.001311	640.84%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 334.940†	33.9	0.00007 mg/L	0.000012	0.00007 mg/L	0.000012	18.71%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.1	0.00015 mg/L	0.006387	0.00015 mg/L	0.006387	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 385.958†	62.8	0.00395 mg/L	0.003903	0.00395 mg/L	0.003903	98.73%
V 292.402†	67.6	0.00070 mg/L	0.000105	0.00070 mg/L	0.000105	14.98%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 206.200†	2.8	0.00013 mg/L	0.000079	0.00013 mg/L	0.000079	60.69%
QC value within limits for Zn 206.200 Recovery = Not calculated							
Sr 421.552†	175.4	0.00002 mg/L	0.000005	0.00002 mg/L	0.000005	24.96%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Sr 421.552 R†	11.1	0.000 mg/L	0.0001	0.000 mg/L	0.0001	198.98%
U 424.167†	-46.7	-0.00840 mg/L	0.011983	-0.00840 mg/L	0.011983	142.59%
QC value within limits for U 424.167 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/7/2014 12:14:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31445.2	98.311	%	0.6167				0.63%
Y 371.029	572067.7	96.032	%	1.0415				1.08%
Ag 328.068†	456.9	0.00478	mg/L	0.000089	0.00478	mg/L	0.000089	1.86%
QC value within limits for Ag 328.068 Recovery = 95.59%								
Al 396.153†	735.0	0.01321	mg/L	0.000562	0.01321	mg/L	0.000562	4.26%
QC value within limits for Al 396.153 Recovery = 132.13%								
As 188.979†	12.1	0.01973	mg/L	0.003912	0.01973	mg/L	0.003912	19.83%
QC value within limits for As 188.979 Recovery = 98.63%								
As 193.696†	12.8	0.01754	mg/L	0.002136	0.01754	mg/L	0.002136	12.18%
[illegible] 249.772†	1921.2	0.04021	mg/L	0.004399	0.04021	mg/L	0.004399	10.94%

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QC value within limits for B 249.772 Recovery = 100.52%						
B 249.677†	1451.4	0.044 mg/L	0.0008	0.044 mg/L	0.0008	1.79%
Ba 233.527†	99.8	0.00187 mg/L	0.000384	0.00187 mg/L	0.000384	20.53%
QC value within limits for Ba 233.527 Recovery = 93.55%						
Be 313.107†	7523.6	0.00214 mg/L	0.000034	0.00214 mg/L	0.000034	1.57%
QC value within limits for Be 313.107 Recovery = 106.95%						
Ca 317.933†	3607.4	0.56525 mg/L	0.003881	0.56525 mg/L	0.003881	0.69%
QC value within limits for Ca 317.933 Recovery = 113.05%						
Cd 228.802†	23.2	0.00196 mg/L	0.000235	0.00196 mg/L	0.000235	12.02%
QC value within limits for Cd 228.802 Recovery = 97.96%						
Cd 226.502†	82.5	0.00215 mg/L	0.000062	0.00215 mg/L	0.000062	2.91%
Co 228.616†	90.1	0.00648 mg/L	0.001215	0.00648 mg/L	0.001215	18.75%
QC value within limits for Co 228.616 Recovery = 107.98%						
Cr 267.716†	183.1	0.00652 mg/L	0.000288	0.00652 mg/L	0.000288	4.43%
Cr 205.560†	155.2	0.00608 mg/L	0.000094	0.00608 mg/L	0.000094	1.54%
QC value within limits for Cr 205.560 Recovery = 101.33%						
Cu 324.752†	651.8	0.00515 mg/L	0.000428	0.00515 mg/L	0.000428	8.31%
QC value within limits for Cu 324.752 Recovery = 85.86%						
Fe 238.204†	91.5	0.02311 mg/L	0.001009	0.02311 mg/L	0.001009	4.37%
QC value within limits for Fe 238.204 Recovery = 115.53%						
K 766.490†	1612.3	0.58310 mg/L	0.022720	0.58310 mg/L	0.022720	3.90%
QC value within limits for K 766.490 Recovery = 116.62%						
Mg 285.213†	4663.1	0.55396 mg/L	0.001524	0.55396 mg/L	0.001524	0.28%
QC value within limits for Mg 285.213 Recovery = 110.79%						
Mn 257.610†	657.5	0.00223 mg/L	0.000010	0.00223 mg/L	0.000010	0.46%
QC value within limits for Mn 257.610 Recovery = 111.53%						
Mo 202.031†	65.7	0.00866 mg/L	0.000416	0.00866 mg/L	0.000416	4.81%
QC value within limits for Mo 202.031 Recovery = 108.30%						
Na 589.592†	4332.1	0.56097 mg/L	0.015377	0.56097 mg/L	0.015377	2.74%
QC value within limits for Na 589.592 Recovery = 112.19%						
Ni 231.604†	121.5	0.00555 mg/L	0.000337	0.00555 mg/L	0.000337	6.08%
QC value within limits for Ni 231.604 Recovery = 110.94%						
Pb 220.353†	23.4	0.00525 mg/L	0.001237	0.00525 mg/L	0.001237	23.55%
QC value within limits for Pb 220.353 Recovery = 105.04%						
Pb 217.000†	8.8	0.00856 mg/L	0.006034	0.00856 mg/L	0.006034	70.51%
Sb 206.836†	46.9	0.05221 mg/L	0.004949	0.05221 mg/L	0.004949	9.48%
QC value within limits for Sb 206.836 Recovery = 104.42%						
Se 203.985†	38.2	0.05867 mg/L	0.018890	0.05867 mg/L	0.018890	32.20%
Se 196.026†	32.1	0.04712 mg/L	0.016210	0.04712 mg/L	0.016210	34.40%
QC value within limits for Se 196.026 Recovery = 94.24%						
Si 212.412†	346.5	0.102 mg/L	0.0032	0.102 mg/L	0.0032	3.13%
QC value within limits for Si 212.412 Recovery = 127.43%						
Sn 189.927†	26.0	0.01154 mg/L	0.000731	0.01154 mg/L	0.000731	6.33%
QC value within limits for Sn 189.927 Recovery = 115.37%						
Ti 334.940†	2824.3	0.00554 mg/L	0.000010	0.00554 mg/L	0.000010	0.17%
QC value within limits for Ti 334.940 Recovery = 110.88%						
Tl 190.801†	47.4	0.05097 mg/L	0.002788	0.05097 mg/L	0.002788	5.47%
QC value within limits for Tl 190.801 Recovery = 101.95%						
U 385.958†	1697.9	0.10685 mg/L	0.001827	0.10685 mg/L	0.001827	1.71%
V 292.402†	1070.0	0.01105 mg/L	0.000252	0.01105 mg/L	0.000252	2.28%
QC value within limits for V 292.402 Recovery = 110.48%						
Zn 206.200†	144.7	0.00670 mg/L	0.000060	0.00670 mg/L	0.000060	0.90%
QC value within limits for Zn 206.200 Recovery = 134.00%						
Sr 421.552†	48529.5	0.00519 mg/L	0.000017	0.00519 mg/L	0.000017	0.34%
QC value within limits for Sr 421.552 Recovery = 103.72%						
Sr 421.552 R†	2117.6	0.005 mg/L	0.0001	0.005 mg/L	0.0001	1.12%
QC value within limits for Sr 421.552 R Recovery = 103.70%						
U 424.167†	535.4	0.09637 mg/L	0.005689	0.09637 mg/L	0.005689	5.90%
QC value within limits for U 424.167 Recovery = 96.37%						
All analyte(s) passed QC.						

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:

Autosampler Location: 403
Date Collected: 7/7/2014 12:16:31 PM
Data Type: Original
Initial Sample Vol:

Dilution:
Wash Time: 20

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	32075.3	100.28	%	0.650				0.65%
Y 371.029	580194.2	97.396	%	0.7414				0.76%
Ag 328.068†	50421.8	0.52752	mg/L	0.002065	0.52752	mg/L	0.002065	0.39%
QC value within limits for Ag 328.068 Recovery = 105.50%								
Al 396.153†	3111240.9	55.930	mg/L	0.7896	55.930	mg/L	0.7896	1.41%
As 188.979†	335.4	0.54521	mg/L	0.004420	0.54521	mg/L	0.004420	0.81%
QC value within limits for As 188.979 Recovery = 109.04%								
As 193.696†	346.9	0.47426	mg/L	0.011332	0.47426	mg/L	0.011332	2.39%
B 249.772†	34157.1	0.71487	mg/L	0.009748	0.71487	mg/L	0.009748	1.36%
QC value greater than the upper limit for B 249.772 Recovery = 142.97%								
B 249.677†	16139.8	0.487	mg/L	0.0053	0.487	mg/L	0.0053	1.08%
Ba 233.527†	27695.1	0.51915	mg/L	0.003039	0.51915	mg/L	0.003039	0.59%
QC value within limits for Ba 233.527 Recovery = 103.83%								
Be 313.107†	1911099.4	0.54335	mg/L	0.001333	0.54335	mg/L	0.001333	0.25%
QC value within limits for Be 313.107 Recovery = 108.67%								
Ca 317.933†	348690.9	54.637	mg/L	0.0478	54.637	mg/L	0.0478	0.09%
Cd 228.802†	6443.3	0.54509	mg/L	0.004972	0.54509	mg/L	0.004972	0.91%
QC value within limits for Cd 228.802 Recovery = 109.02%								
Cd 226.502†	20415.7	0.53065	mg/L	0.002582	0.53065	mg/L	0.002582	0.49%
Co 228.616†	6814.8	0.49027	mg/L	0.002694	0.49027	mg/L	0.002694	0.55%
QC value within limits for Co 228.616 Recovery = 98.05%								
Cr 267.716†	14406.5	0.51294	mg/L	0.002130	0.51294	mg/L	0.002130	0.42%
Cr 205.560†	13000.0	0.50939	mg/L	0.003607	0.50939	mg/L	0.003607	0.71%
QC value within limits for Cr 205.560 Recovery = 101.88%								
Cu 324.752†	63828.1	0.50446	mg/L	0.002410	0.50446	mg/L	0.002410	0.48%
QC value within limits for Cu 324.752 Recovery = 100.89%								
Fe 238.204†	83701.4	21.137	mg/L	0.0248	21.137	mg/L	0.0248	0.12%
K 766.490†	-46.5	-0.01683	mg/L	0.044143	-0.01683	mg/L	0.044143	262.24%
Mg 285.213†	451893.0	53.683	mg/L	0.1025	53.683	mg/L	0.1025	0.19%
Mn 257.610†	151043.8	0.51244	mg/L	0.002936	0.51244	mg/L	0.002936	0.57%
QC value within limits for Mn 257.610 Recovery = 102.49%								
Mo 202.031†	3838.8	0.50595	mg/L	0.003543	0.50595	mg/L	0.003543	0.70%
QC value within limits for Mo 202.031 Recovery = 101.19%								
Na 589.592†	228.2	0.02955	mg/L	0.003289	0.02955	mg/L	0.003289	11.13%
Ni 231.604†	10795.2	0.49282	mg/L	0.001919	0.49282	mg/L	0.001919	0.39%
QC value within limits for Ni 231.604 Recovery = 98.56%								
Pb 220.353†	2262.0	0.50665	mg/L	0.005044	0.50665	mg/L	0.005044	1.00%
QC value within limits for Pb 220.353 Recovery = 101.33%								
Pb 217.000†	569.9	0.55285	mg/L	0.006647	0.55285	mg/L	0.006647	1.20%
Sb 206.836†	444.4	0.49518	mg/L	0.004830	0.49518	mg/L	0.004830	0.98%
QC value within limits for Sb 206.836 Recovery = 99.04%								
Se 203.985†	349.1	0.53587	mg/L	0.009474	0.53587	mg/L	0.009474	1.77%
Se 196.026†	379.1	0.55738	mg/L	0.010859	0.55738	mg/L	0.010859	1.95%
QC value within limits for Se 196.026 Recovery = 111.48%								
Si 212.412†	9216.3	2.711	mg/L	0.0204	2.711	mg/L	0.0204	0.75%
QC value within limits for Si 212.412 Recovery = 108.46%								
Sn 189.927†	1179.2	0.52309	mg/L	0.004787	0.52309	mg/L	0.004787	0.92%
QC value within limits for Sn 189.927 Recovery = 104.62%								
Ti 334.940†	265805.2	0.52179	mg/L	0.001079	0.52179	mg/L	0.001079	0.21%
QC value within limits for Ti 334.940 Recovery = 104.36%								
Tl 190.801†	479.2	0.51576	mg/L	0.001314	0.51576	mg/L	0.001314	0.25%
QC value within limits for Tl 190.801 Recovery = 103.15%								
U 385.958†	13019.2	0.81931	mg/L	0.001495	0.81931	mg/L	0.001495	0.18%
V 292.402†	50909.2	0.52563	mg/L	0.001844	0.52563	mg/L	0.001844	0.35%

QC value within limits for V 292.402 Recovery = 105.13%

Zn 206.200†	11469.7	0.53120 mg/L	0.003389	0.53120 mg/L	0.003389	0.64%

QC value within limits for Zn 206.200 Recovery = 106.24%

Sr 421.552†	1198627.4	0.12809 mg/L	0.000359	0.12809 mg/L	0.000359	0.28%

QC value within limits for Sr 421.552 Recovery = 102.47%

Sr 421.552 R†	53115.7	0.130 mg/L	0.0002	0.130 mg/L	0.0002	0.16%
U 424.167†	2687.9	0.48381 mg/L	0.015533	0.48381 mg/L	0.015533	3.21%

QC value within limits for U 424.167 Recovery = 96.76%

QC Failed. Continue with analysis.

Sequence No.: 15 **Autosampler Location: 404**
Sample ID: ICS **Date Collected: 7/7/2014 12:18:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30841.4	96.424	%	0.3149				0.33%
Y 371.029	560909.8	94.159	%	0.7618				0.81%
Ag 328.068†	4.7	0.00005	mg/L	0.000260	0.00005	mg/L	0.000260	523.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	3170763.2	57.000	mg/L	0.6869	57.000	mg/L	0.6869	1.21%
As 188.979†	-0.1	-0.00017	mg/L	0.008977	-0.00017	mg/L	0.008977	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-59.6	-0.08153	mg/L	0.005806	-0.08153	mg/L	0.005806	7.12%
B 249.772†	7728.7	0.16175	mg/L	0.004742	0.16175	mg/L	0.004742	2.93%
QC value greater than the upper limit for B 249.772 Recovery = Not calculated								
B 249.677†	-2111.6	-0.064	mg/L	0.0010	-0.064	mg/L	0.0010	1.62%
Ba 233.527†	46.0	0.00086	mg/L	0.000257	0.00086	mg/L	0.000257	29.76%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	788.9	0.00022	mg/L	0.000022	0.00022	mg/L	0.000022	9.77%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	357097.5	55.954	mg/L	0.0923	55.954	mg/L	0.0923	0.16%
Cd 228.802†	-10.1	-0.00086	mg/L	0.000381	-0.00086	mg/L	0.000381	44.49%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-21.1	-0.00055	mg/L	0.000170	-0.00055	mg/L	0.000170	30.94%
Co 228.616†	-6.6	-0.00047	mg/L	0.000785	-0.00047	mg/L	0.000785	166.47%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	16.6	0.00059	mg/L	0.000362	0.00059	mg/L	0.000362	61.22%
Cr 205.560†	-83.8	-0.00329	mg/L	0.000543	-0.00329	mg/L	0.000543	16.53%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-758.8	-0.00600	mg/L	0.000405	-0.00600	mg/L	0.000405	6.76%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	84001.6	21.213	mg/L	0.0405	21.213	mg/L	0.0405	0.19%
K 766.490†	44.3	0.01600	mg/L	0.032275	0.01600	mg/L	0.032275	201.66%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	468393.9	55.644	mg/L	0.4384	55.644	mg/L	0.4384	0.79%
Mn 257.610†	12.0	0.00004	mg/L	0.000075	0.00004	mg/L	0.000075	184.77%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	36.4	0.00480	mg/L	0.000853	0.00480	mg/L	0.000853	17.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	212.9	0.02757	mg/L	0.015036	0.02757	mg/L	0.015036	54.54%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-32.0	-0.00146	mg/L	0.000217	-0.00146	mg/L	0.000217	14.88%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-53.2	-0.01192	mg/L	0.001114	-0.01192	mg/L	0.001114	9.35%

QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	17.3	0.01676 mg/L	0.006912	0.01676 mg/L	0.006912	41.25%
Sb 206.836†	-0.3	-0.00037 mg/L	0.003797	-0.00037 mg/L	0.003797	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 203.985†	-22.6	-0.03473 mg/L	0.019597	-0.03473 mg/L	0.019597	56.42%
Se 196.026†	-24.6	-0.03619 mg/L	0.007320	-0.03619 mg/L	0.007320	20.22%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 212.412†	47.7	0.014 mg/L	0.0076	0.014 mg/L	0.0076	54.03%
QC value within limits for Si 212.412 Recovery = Not calculated						
Sn 189.927†	25.6	0.01135 mg/L	0.002434	0.01135 mg/L	0.002434	21.44%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 334.940†	46.4	0.00009 mg/L	0.000060	0.00009 mg/L	0.000060	65.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	11.3	0.01215 mg/L	0.000964	0.01215 mg/L	0.000964	7.94%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 385.958†	5616.8	0.35347 mg/L	0.005310	0.35347 mg/L	0.005310	1.50%
V 292.402†	222.9	0.00230 mg/L	0.000167	0.00230 mg/L	0.000167	7.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 206.200†	75.7	0.00351 mg/L	0.000182	0.00351 mg/L	0.000182	5.19%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Sr 421.552†	3972.8	0.00042 mg/L	0.000010	0.00042 mg/L	0.000010	2.42%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 421.552 R†	111.7	0.000 mg/L	0.0002	0.000 mg/L	0.0002	67.57%
U 424.167†	-216.0	-0.03887 mg/L	0.015380	-0.03887 mg/L	0.015380	39.57%
QC value within limits for U 424.167 Recovery = Not calculated						

QC Failed. Continue with analysis.
User canceled analysis.

* Printer communication error caused PDFactor4 to Close during run.
JW 7/7/14

Nebulizer Parameters: 1407224-001A

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1407224-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31831.9	99.520	%	0.3845				0.39%
Y 371.029	573238.7	96.229	%	0.5181				0.54%
Ag 328.068†	2.0	0.00002	mg/L	0.000140	0.00002	mg/L	0.000140	671.28%
Al 396.153†	192.8	0.00347	mg/L	0.000599	0.00347	mg/L	0.000599	17.28%
As 188.979†	-2.8	-0.00453	mg/L	0.004376	-0.00453	mg/L	0.004376	96.57%
As 193.696†	2.8	0.00378	mg/L	0.006573	0.00378	mg/L	0.006573	173.79%
B 249.772†	3013.9	0.06308	mg/L	0.005486	0.06308	mg/L	0.005486	8.70%
B 249.677†	2010.1	0.061	mg/L	0.0014	0.061	mg/L	0.0014	2.27%
Ba 233.527†	168.3	0.00316	mg/L	0.000340	0.00316	mg/L	0.000340	10.78%
Be 313.107†	114.8	0.00003	mg/L	0.000010	0.00003	mg/L	0.000010	29.87%
Ca 317.933†	63242.6	9.9096	mg/L	0.00561	9.9096	mg/L	0.00561	0.06%
Cd 228.802†	-2.9	-0.00024	mg/L	0.000238	-0.00024	mg/L	0.000238	98.05%
Cd 226.502†	3.8	0.00010	mg/L	0.000120	0.00010	mg/L	0.000120	123.32%
Co 228.616†	-19.2	-0.00138	mg/L	0.001107	-0.00138	mg/L	0.001107	80.08%
Cr 267.716†	17.6	0.00063	mg/L	0.000013	0.00063	mg/L	0.000013	2.06%
Cr 205.560†	-8.0	-0.00031	mg/L	0.000507	-0.00031	mg/L	0.000507	162.66%
Cu 324.752†	281.8	0.00223	mg/L	0.000189	0.00223	mg/L	0.000189	8.50%
Fe 238.204†	274.6	0.06934	mg/L	0.001177	0.06934	mg/L	0.001177	1.70%
K 766.490†	265.6	0.09606	mg/L	0.013204	0.09606	mg/L	0.013204	13.74%
Mg 285.213†	24608.3	2.9234	mg/L	0.00574	2.9234	mg/L	0.00574	0.20%
Mn 257.610†	4582.0	0.01554	mg/L	0.000107	0.01554	mg/L	0.000107	0.69%
Mo 202.031†	2.0	0.00026	mg/L	0.000270	0.00026	mg/L	0.000270	104.78%
Na 589.592†	12832.7	1.6617	mg/L	0.00961	1.6617	mg/L	0.00961	0.58%
Ni 231.604†	11.4	0.00052	mg/L	0.000881	0.00052	mg/L	0.000881	169.18%
Pb 220.353†	-1.0	-0.00023	mg/L	0.001883	-0.00023	mg/L	0.001883	810.85%
Pb 217.000†	-0.9	-0.00085	mg/L	0.003984	-0.00085	mg/L	0.003984	471.42%
Sb 206.836†	5.2	0.00584	mg/L	0.001858	0.00584	mg/L	0.001858	31.79%
Se 203.985†	1167.1	1.7914	mg/L	0.02040	1.7914	mg/L	0.02040	1.14%
Se 196.026†	1348.1	1.9820	mg/L	0.01812	1.9820	mg/L	0.01812	0.91%
Si 212.412†	1944.6	0.572	mg/L	0.0053	0.572	mg/L	0.0053	0.93%
Sn 189.927†	-1.6	-0.00070	mg/L	0.002410	-0.00070	mg/L	0.002410	346.02%
Ti 334.940†	27.8	0.00005	mg/L	0.000043	0.00005	mg/L	0.000043	78.38%
Tl 190.801†	1.1	0.00115	mg/L	0.002936	0.00115	mg/L	0.002936	255.88%
U 385.958†	180.6	0.01137	mg/L	0.002833	0.01137	mg/L	0.002833	24.92%
V 292.402†	46.1	0.00048	mg/L	0.000056	0.00048	mg/L	0.000056	11.81%
Zn 206.200†	54.6	0.00253	mg/L	0.000246	0.00253	mg/L	0.000246	9.74%
Sr 421.552†	1150172.2	0.12291	mg/L	0.000100	0.12291	mg/L	0.000100	0.08%
Sr 421.552 R†	50043.9	0.123	mg/L	0.0005	0.123	mg/L	0.0005	0.39%
U 424.167†	-17.3	-0.00312	mg/L	0.003075	-0.00312	mg/L	0.003075	98.58%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 12:41:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029 R	31373.9	98.089	%	1.3666				1.39%
Y 371.029	568781.6	95.481	%	0.4025				0.42%
Ag 328.068†	48649.2	0.50898	mg/L	0.002347	0.50898	mg/L	0.002347	0.46%

QC value within limits for Ag 328.068 Recovery = 101.80%

Al 396.153†	27556.3	0.49537 mg/L	0.000868	0.49537 mg/L	0.000868	0.18%
QC value within limits for Al 396.153 Recovery = 99.07%						
As 188.979†	312.7	0.50840 mg/L	0.010288	0.50840 mg/L	0.010288	2.02%
QC value within limits for As 188.979 Recovery = 101.68%						
As 193.696†	371.9	0.50845 mg/L	0.000725	0.50845 mg/L	0.000725	0.14%
B 249.772†	24886.7	0.52085 mg/L	0.011305	0.52085 mg/L	0.011305	2.17%
QC value within limits for B 249.772 Recovery = 104.17%						
B 249.677†	16790.1	0.507 mg/L	0.0014	0.507 mg/L	0.0014	0.27%
Ba 233.527†	27624.9	0.51783 mg/L	0.000865	0.51783 mg/L	0.000865	0.17%
QC value within limits for Ba 233.527 Recovery = 103.57%						
Be 313.107†	1804464.5	0.51303 mg/L	0.000625	0.51303 mg/L	0.000625	0.12%
QC value within limits for Be 313.107 Recovery = 102.61%						
Ca 317.933†	18.8	0.00295 mg/L	0.003750	0.00295 mg/L	0.003750	127.08%
Cd 228.802†	6139.7	0.51941 mg/L	0.006541	0.51941 mg/L	0.006541	1.26%
QC value within limits for Cd 228.802 Recovery = 103.88%						
Cd 226.502†	19965.4	0.51894 mg/L	0.002094	0.51894 mg/L	0.002094	0.40%
Co 228.616†	7012.7	0.50452 mg/L	0.003359	0.50452 mg/L	0.003359	0.67%
QC value within limits for Co 228.616 Recovery = 100.90%						
Cr 267.716†	14496.0	0.51613 mg/L	0.001855	0.51613 mg/L	0.001855	0.36%
Cr 205.560†	13109.7	0.51370 mg/L	0.005359	0.51370 mg/L	0.005359	1.04%
QC value within limits for Cr 205.560 Recovery = 102.74%						
Cu 324.752†	65508.6	0.51774 mg/L	0.001696	0.51774 mg/L	0.001696	0.33%
QC value within limits for Cu 324.752 Recovery = 103.55%						
Fe 238.204†	2032.7	0.51331 mg/L	0.004334	0.51331 mg/L	0.004334	0.84%
QC value within limits for Fe 238.204 Recovery = 102.66%						
K 766.490†	180.4	0.06524 mg/L	0.020171	0.06524 mg/L	0.020171	30.92%
Mg 285.213†	-10.9	-0.00130 mg/L	0.002118	-0.00130 mg/L	0.002118	163.44%
Mn 257.610†	154715.3	0.52489 mg/L	0.001571	0.52489 mg/L	0.001571	0.30%
QC value within limits for Mn 257.610 Recovery = 104.98%						
Mo 202.031†	3856.3	0.50826 mg/L	0.007347	0.50826 mg/L	0.007347	1.45%
QC value within limits for Mo 202.031 Recovery = 101.65%						
Na 589.592†	236.6	0.03064 mg/L	0.015770	0.03064 mg/L	0.015770	51.47%
Ni 231.604†	11321.3	0.51684 mg/L	0.001191	0.51684 mg/L	0.001191	0.23%
QC value within limits for Ni 231.604 Recovery = 103.37%						
Pb 220.353†	2306.8	0.51670 mg/L	0.007569	0.51670 mg/L	0.007569	1.46%
QC value within limits for Pb 220.353 Recovery = 103.34%						
Pb 217.000†	516.5	0.50104 mg/L	0.010159	0.50104 mg/L	0.010159	2.03%
Sb 206.836†	444.9	0.49580 mg/L	0.007418	0.49580 mg/L	0.007418	1.50%
QC value within limits for Sb 206.836 Recovery = 99.16%						
Se 203.985†	338.5	0.51952 mg/L	0.001266	0.51952 mg/L	0.001266	0.24%
Se 196.026†	345.1	0.50739 mg/L	0.012764	0.50739 mg/L	0.012764	2.52%
QC value within limits for Se 196.026 Recovery = 101.48%						
Si 212.412†	8621.1	2.536 mg/L	0.0330	2.536 mg/L	0.0330	1.30%
QC value within limits for Si 212.412 Recovery = 101.45%						
Sn 189.927†	1159.2	0.51418 mg/L	0.004125	0.51418 mg/L	0.004125	0.80%
QC value within limits for Sn 189.927 Recovery = 102.84%						
Ti 334.940†	262633.0	0.51556 mg/L	0.001448	0.51556 mg/L	0.001448	0.28%
QC value within limits for Ti 334.940 Recovery = 103.11%						
Tl 190.801†	475.7	0.51196 mg/L	0.006825	0.51196 mg/L	0.006825	1.33%
QC value within limits for Tl 190.801 Recovery = 102.39%						
U 385.958†	8339.6	0.52482 mg/L	0.000926	0.52482 mg/L	0.000926	0.18%
V 292.402†	49898.3	0.51520 mg/L	0.000344	0.51520 mg/L	0.000344	0.07%
QC value within limits for V 292.402 Recovery = 103.04%						
Zn 206.200†	11227.9	0.52001 mg/L	0.000338	0.52001 mg/L	0.000338	0.07%
QC value within limits for Zn 206.200 Recovery = 104.00%						
Sr 421.552†	1196964.7	0.12791 mg/L	0.000098	0.12791 mg/L	0.000098	0.08%
QC value within limits for Sr 421.552 Recovery = 102.33%						
Sr 421.552 R†	51709.0	0.127 mg/L	0.0002	0.127 mg/L	0.0002	0.19%
U 424.167†	2752.9	0.49550 mg/L	0.009839	0.49550 mg/L	0.009839	1.99%
QC value within limits for U 424.167 Recovery = 99.10%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 12:43:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	31690.7	99.079	%	0.8385				0.85%
Y 371.029	577318.1	96.914	%	0.7311				0.75%
Ag 328.068†	20.6	0.00022	mg/L	0.000359	0.00022	mg/L	0.000359	166.97%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-34.5	-0.00062	mg/L	0.000317	-0.00062	mg/L	0.000317	51.08%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.5	0.00243	mg/L	0.004824	0.00243	mg/L	0.004824	198.29%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-3.4	-0.00464	mg/L	0.005146	-0.00464	mg/L	0.005146	110.82%
B 249.772†	-688.6	-0.01441	mg/L	0.006700	-0.01441	mg/L	0.006700	46.49%
QC value within limits for B 249.772 Recovery = Not calculated								
B 249.677†	2.5	0.000	mg/L	0.0012	0.000	mg/L	0.0012	>999.9%
Ba 233.527†	1.4	0.00003	mg/L	0.000146	0.00003	mg/L	0.000146	559.80%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	377.6	0.00011	mg/L	0.000009	0.00011	mg/L	0.000009	8.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-16.2	-0.00254	mg/L	0.003833	-0.00254	mg/L	0.003833	150.73%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-5.5	-0.00046	mg/L	0.000132	-0.00046	mg/L	0.000132	28.34%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.8	0.00007	mg/L	0.000138	0.00007	mg/L	0.000138	188.73%
Co 228.616†	-10.5	-0.00076	mg/L	0.000313	-0.00076	mg/L	0.000313	41.22%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	1.5	0.00005	mg/L	0.000240	0.00005	mg/L	0.000240	444.28%
Cr 205.560†	11.5	0.00045	mg/L	0.000748	0.00045	mg/L	0.000748	166.80%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-213.8	-0.00169	mg/L	0.000171	-0.00169	mg/L	0.000171	10.12%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	5.5	0.00140	mg/L	0.001680	0.00140	mg/L	0.001680	119.85%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	33.4	0.01208	mg/L	0.029250	0.01208	mg/L	0.029250	242.22%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	15.6	0.00185	mg/L	0.000593	0.00185	mg/L	0.000593	32.06%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-21.3	-0.00007	mg/L	0.000084	-0.00007	mg/L	0.000084	116.70%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.1	0.00080	mg/L	0.000274	0.00080	mg/L	0.000274	34.08%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	200.6	0.02597	mg/L	0.025184	0.02597	mg/L	0.025184	96.96%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-4.4	-0.00020	mg/L	0.000146	-0.00020	mg/L	0.000146	72.91%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.9	-0.00064	mg/L	0.002271	-0.00064	mg/L	0.002271	355.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-0.4	-0.00040	mg/L	0.007764	-0.00040	mg/L	0.007764	>999.9%
Sb 206.836†	5.2	0.00581	mg/L	0.006615	0.00581	mg/L	0.006615	113.91%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 203.985†	7.5	0.01155	mg/L	0.006834	0.01155	mg/L	0.006834	59.18%
Se 196.026†	-10.0	-0.01476	mg/L	0.005137	-0.01476	mg/L	0.005137	34.81%
QC value within limits for Se 196.026 Recovery = Not calculated								
Si 212.412†	2.8	0.001	mg/L	0.0042	0.001	mg/L	0.0042	507.33%
QC value within limits for Si 212.412 Recovery = Not calculated								
Sn 189.927†	-1.1	-0.00050	mg/L	0.001091	-0.00050	mg/L	0.001091	219.27%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	159.0	0.00031	mg/L	0.000366	0.00031	mg/L	0.000366	117.07%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	3.1	0.00337	mg/L	0.001580	0.00337	mg/L	0.001580	46.95%
QC value within limits for Tl 190.801 Recovery = Not calculated								
U 385.958†	60.7	0.00382	mg/L	0.002553	0.00382	mg/L	0.002553	66.85%
V 292.402†	72.2	0.00075	mg/L	0.000068	0.00075	mg/L	0.000068	9.16%
QC value within limits for V 292.402 Recovery = Not calculated								

Zn 206.200†	1.2	0.00006 mg/L	0.000155	0.00006 mg/L	0.000155	281.37%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Sr 421.552†	203.7	0.00002 mg/L	0.000005	0.00002 mg/L	0.000005	22.21%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 421.552 R†	-4.9	-0.000 mg/L	0.0001	-0.000 mg/L	0.0001	565.24%
U 424.167†	-29.9	-0.00539 mg/L	0.007130	-0.00539 mg/L	0.007130	132.31%
QC value within limits for U 424.167 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 28 **Autosampler Location: 3**
Sample ID: CCV CAT **Date Collected: 7/7/2014 12:44:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029 R	30655.4	95.842	%	0.4796				0.50%
Y 371.029	562778.5	94.473	%	0.4005				0.42%
Ag 328.068†	231.5	0.00242	mg/L	0.000280	0.00242	mg/L	0.000280	11.56%
Al 396.153†	41.0	0.00074	mg/L	0.000264	0.00074	mg/L	0.000264	35.88%
As 188.979†	0.7	0.00120	mg/L	0.001992	0.00120	mg/L	0.001992	166.49%
As 193.696†	-5.5	-0.00748	mg/L	0.006684	-0.00748	mg/L	0.006684	89.35%
B 249.772†	-2151.4	-0.04503	mg/L	0.008023	-0.04503	mg/L	0.008023	17.82%
B 249.677†	49.1	0.001	mg/L	0.0008	0.001	mg/L	0.0008	51.52%
Ba 233.527†	16.8	0.00031	mg/L	0.000142	0.00031	mg/L	0.000142	45.24%
Be 313.107†	759.2	0.00022	mg/L	0.000029	0.00022	mg/L	0.000029	13.34%
Ca 317.933†	346261.4	54.256	mg/L	0.2322	54.256	mg/L	0.2322	0.43%
QC value within limits for Ca 317.933 Recovery = 108.51%								
Cd 228.802†	-13.1	-0.00111	mg/L	0.000115	-0.00111	mg/L	0.000115	10.35%
Cd 226.502†	12.1	0.00031	mg/L	0.000173	0.00031	mg/L	0.000173	54.94%
Co 228.616†	-0.8	-0.00006	mg/L	0.000310	-0.00006	mg/L	0.000310	533.66%
Cr 267.716†	27.0	0.00096	mg/L	0.000361	0.00096	mg/L	0.000361	37.58%
Cr 205.560†	-9.4	-0.00037	mg/L	0.000505	-0.00037	mg/L	0.000505	137.25%
Cu 324.752†	-439.0	-0.00347	mg/L	0.000125	-0.00347	mg/L	0.000125	3.60%
Fe 238.204†	22.6	0.00570	mg/L	0.002596	0.00570	mg/L	0.002596	45.54%
K 766.490†	145227.7	52.522	mg/L	0.1190	52.522	mg/L	0.1190	0.23%
QC value within limits for K 766.490 Recovery = 105.04%								
Mg 285.213†	457337.1	54.330	mg/L	0.1624	54.330	mg/L	0.1624	0.30%
QC value within limits for Mg 285.213 Recovery = 108.66%								
Mn 257.610†	46.1	0.00016	mg/L	0.000048	0.00016	mg/L	0.000048	30.65%
Mo 202.031†	8.4	0.00111	mg/L	0.000349	0.00111	mg/L	0.000349	31.51%
Na 589.592†	414237.0	53.641	mg/L	0.1288	53.641	mg/L	0.1288	0.24%
QC value within limits for Na 589.592 Recovery = 107.28%								
Ni 231.604†	-23.0	-0.00105	mg/L	0.000515	-0.00105	mg/L	0.000515	49.04%
Pb 220.353†	-4.6	-0.00103	mg/L	0.000841	-0.00103	mg/L	0.000841	81.88%
Pb 217.000†	-2.7	-0.00261	mg/L	0.006301	-0.00261	mg/L	0.006301	241.47%
Sb 206.836†	-10.5	-0.01175	mg/L	0.005194	-0.01175	mg/L	0.005194	44.20%
Se 203.985†	-27.6	-0.04239	mg/L	0.019581	-0.04239	mg/L	0.019581	46.19%
Se 196.026†	-32.5	-0.04779	mg/L	0.014490	-0.04779	mg/L	0.014490	30.32%
Si 212.412†	23.1	0.007	mg/L	0.0040	0.007	mg/L	0.0040	58.35%
Sn 189.927†	14.8	0.00658	mg/L	0.001306	0.00658	mg/L	0.001306	19.86%
Ti 334.940†	-111.3	-0.00022	mg/L	0.000045	-0.00022	mg/L	0.000045	20.82%
Tl 190.801†	11.3	0.01218	mg/L	0.004141	0.01218	mg/L	0.004141	34.00%
U 385.958†	92.3	0.00581	mg/L	0.003334	0.00581	mg/L	0.003334	57.40%
V 292.402†	223.5	0.00231	mg/L	0.000165	0.00231	mg/L	0.000165	7.16%
Zn 206.200†	48.5	0.00225	mg/L	0.000222	0.00225	mg/L	0.000222	9.88%
Sr 421.552†	6884.2	0.00074	mg/L	0.000003	0.00074	mg/L	0.000003	0.34%
Sr 421.552 R†	258.9	0.001	mg/L	0.0001	0.001	mg/L	0.0001	10.14%
U 424.167†	-276.7	-0.04980	mg/L	0.002217	-0.04980	mg/L	0.002217	4.45%

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: MB-14064
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 112
Date Collected: 7/7/2014 12:59:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14064

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: MB-14064

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	557829.3	93.642	%	0.4702				0.50%
Ag 328.068†	4.1	0.00004	mg/L	0.000116	0.00004	mg/L	0.000116	272.07%
As 188.979†	-1.7	-0.00276	mg/L	0.005707	-0.00276	mg/L	0.005707	206.99%
As 193.696†	-2.5	-0.00337	mg/L	0.009770	-0.00337	mg/L	0.009770	289.75%
Ba 233.527†	17.5	0.00033	mg/L	0.000313	0.00033	mg/L	0.000313	95.68%
Cd 228.802†	-1.3	-0.00011	mg/L	0.000101	-0.00011	mg/L	0.000101	94.32%
Cd 226.502†	-6.4	-0.00017	mg/L	0.000167	-0.00017	mg/L	0.000167	99.91%
Cr 267.716†	11.4	0.00040	mg/L	0.000345	0.00040	mg/L	0.000345	85.25%
Cr 205.560†	-18.2	-0.00071	mg/L	0.000319	-0.00071	mg/L	0.000319	44.71%
Cu 324.752†	17.2	0.00014	mg/L	0.000167	0.00014	mg/L	0.000167	123.19%
Mo 202.031†	7.9	0.00104	mg/L	0.000162	0.00104	mg/L	0.000162	15.57%
Ni 231.604†	25.6	0.00117	mg/L	0.000225	0.00117	mg/L	0.000225	19.22%
Pb 220.353†	6.4	0.00143	mg/L	0.000313	0.00143	mg/L	0.000313	21.92%
Pb 217.000†	4.4	0.00423	mg/L	0.012562	0.00423	mg/L	0.012562	296.63%
Se 203.985†	5.8	0.00892	mg/L	0.002585	0.00892	mg/L	0.002585	28.99%
Se 196.026†	-0.6	-0.00090	mg/L	0.009675	-0.00090	mg/L	0.009675	>999.9%
Zn 206.200†	79.8	0.00370	mg/L	0.000268	0.00370	mg/L	0.000268	7.26%

Sequence No.: 38
Sample ID: LCS-14064
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 113
Date Collected: 7/7/2014 1:00:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14064

Analyte	Back Pressure	Flow
All	242.0 kPa	0.55 L/min

Mean Data: LCS-14064

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	542263.3	91.029	%	0.7081				0.78%
Ag 328.068†	9844.3	0.10299	mg/L	0.000239	0.10299	mg/L	0.000239	0.23%
As 188.979†	308.9	0.50214	mg/L	0.006195	0.50214	mg/L	0.006195	1.23%
As 193.696†	371.5	0.50790	mg/L	0.014553	0.50790	mg/L	0.014553	2.87%
Ba 233.527†	26976.4	0.50567	mg/L	0.001024	0.50567	mg/L	0.001024	0.20%
Cd 228.802†	5939.0	0.50243	mg/L	0.003681	0.50243	mg/L	0.003681	0.73%
Cd 226.502†	19190.2	0.49879	mg/L	0.001329	0.49879	mg/L	0.001329	0.27%
Cr 267.716†	14330.9	0.51025	mg/L	0.002326	0.51025	mg/L	0.002326	0.46%
Cr 205.560†	12951.8	0.50751	mg/L	0.002793	0.50751	mg/L	0.002793	0.55%
Cu 324.752†	66325.6	0.52420	mg/L	0.000932	0.52420	mg/L	0.000932	0.18%
Mo 202.031†	4002.2	0.52748	mg/L	0.003513	0.52748	mg/L	0.003513	0.67%
Ni 231.604†	10732.9	0.48997	mg/L	0.000944	0.48997	mg/L	0.000944	0.19%
Pb 220.353†	2214.8	0.49608	mg/L	0.007074	0.49608	mg/L	0.007074	1.43%
Pb 217.000†	518.4	0.50292	mg/L	0.014917	0.50292	mg/L	0.014917	2.97%
Se 203.985†	298.5	0.45817	mg/L	0.008578	0.45817	mg/L	0.008578	1.87%
Se 196.026†	327.3	0.48127	mg/L	0.013327	0.48127	mg/L	0.013327	2.77%
Zn 206.200†	10679.5	0.49461	mg/L	0.003146	0.49461	mg/L	0.003146	0.64%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 1:01:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	584830.3	98.175	%	0.8828				0.90%
Ag 328.068†	48267.2	0.50498	mg/L	0.000564	0.50498	mg/L	0.000564	0.11%
QC value within limits for Ag 328.068 Recovery = 101.00%								
As 188.979†	315.7	0.51319	mg/L	0.007545	0.51319	mg/L	0.007545	1.47%
QC value within limits for As 188.979 Recovery = 102.64%								
As 193.696†	378.4	0.51734	mg/L	0.017139	0.51734	mg/L	0.017139	3.31%
Ba 233.527†	27672.6	0.51873	mg/L	0.002574	0.51873	mg/L	0.002574	0.50%
QC value within limits for Ba 233.527 Recovery = 103.75%								
Cd 228.802†	6138.0	0.51926	mg/L	0.002987	0.51926	mg/L	0.002987	0.58%
QC value within limits for Cd 228.802 Recovery = 103.85%								
Cd 226.502†	20042.8	0.52095	mg/L	0.001769	0.52095	mg/L	0.001769	0.34%
Cr 267.716†	14457.3	0.51475	mg/L	0.001292	0.51475	mg/L	0.001292	0.25%
Cr 205.560†	13104.5	0.51349	mg/L	0.003423	0.51349	mg/L	0.003423	0.67%
QC value within limits for Cr 205.560 Recovery = 102.70%								
Cu 324.752†	65113.4	0.51462	mg/L	0.000627	0.51462	mg/L	0.000627	0.12%
QC value within limits for Cu 324.752 Recovery = 102.92%								
Mo 202.031†	3876.1	0.51086	mg/L	0.003286	0.51086	mg/L	0.003286	0.64%
QC value within limits for Mo 202.031 Recovery = 102.17%								
Ni 231.604†	11320.1	0.51678	mg/L	0.000931	0.51678	mg/L	0.000931	0.18%
QC value within limits for Ni 231.604 Recovery = 103.36%								
Pb 220.353†	2324.2	0.52059	mg/L	0.004175	0.52059	mg/L	0.004175	0.80%
QC value within limits for Pb 220.353 Recovery = 104.12%								
Pb 217.000†	523.1	0.50743	mg/L	0.003313	0.50743	mg/L	0.003313	0.65%
Se 203.985†	334.9	0.51395	mg/L	0.012401	0.51395	mg/L	0.012401	2.41%
Se 196.026†	353.2	0.51926	mg/L	0.010354	0.51926	mg/L	0.010354	1.99%
QC value within limits for Se 196.026 Recovery = 103.85%								
Zn 206.200†	11248.2	0.52094	mg/L	0.001436	0.52094	mg/L	0.001436	0.28%
QC value within limits for Zn 206.200 Recovery = 104.19%								

All analyte(s) passed QC.

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Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 1:03:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	596982.0	100.21	%	0.661				0.66%
Ag 328.068†	-12.4	-0.00013	mg/L	0.000288	-0.00013	mg/L	0.000288	222.64%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-0.0	-0.00006	mg/L	0.005530	-0.00006	mg/L	0.005530	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.6	-0.00354	mg/L	0.004215	-0.00354	mg/L	0.004215	119.05%
Ba 233.527†	-13.0	-0.00024	mg/L	0.000287	-0.00024	mg/L	0.000287	117.42%

QC value within limits for Ba 233.527 Recovery = Not calculated						
Cd 228.802†	-2.6	-0.00022 mg/L	0.000351	-0.00022 mg/L	0.000351	159.77%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Cd 226.502†	0.7	0.00002 mg/L	0.000048	0.00002 mg/L	0.000048	277.06%
Cr 267.716†	7.1	0.00025 mg/L	0.000041	0.00025 mg/L	0.000041	16.38%
Cr 205.560†	7.0	0.00028 mg/L	0.000441	0.00028 mg/L	0.000441	160.13%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Cu 324.752†	-95.5	-0.00075 mg/L	0.000265	-0.00075 mg/L	0.000265	35.13%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Mo 202.031†	2.6	0.00035 mg/L	0.000392	0.00035 mg/L	0.000392	113.60%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	0.9	0.00004 mg/L	0.000242	0.00004 mg/L	0.000242	598.79%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	6.6	0.00147 mg/L	0.000626	0.00147 mg/L	0.000626	42.55%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	0.0	0.00003 mg/L	0.001318	0.00003 mg/L	0.001318	>999.9%
Se 203.985†	11.5	0.01772 mg/L	0.007376	0.01772 mg/L	0.007376	41.62%
Se 196.026†	-7.0	-0.01036 mg/L	0.002230	-0.01036 mg/L	0.002230	21.54%
QC value within limits for Se 196.026 Recovery = Not calculated						
Zn 206.200†	0.3	0.00001 mg/L	0.000294	0.00001 mg/L	0.000294	>999.9%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 1:04:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

No CRT JMF 7/7/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	593175.6	99.576	%	0.3678				0.37%
Ag 328.068†	-11.1	-0.00012	mg/L	0.000342	-0.00012	mg/L	0.000342	293.59%
As 188.979†	0.5	0.00088	mg/L	0.001996	0.00088	mg/L	0.001996	227.67%
As 193.696†	-2.9	-0.00401	mg/L	0.007101	-0.00401	mg/L	0.007101	177.05%
Ba 233.527†	-5.5	-0.00010	mg/L	0.000046	-0.00010	mg/L	0.000046	44.41%
Cd 228.802†	-4.4	-0.00037	mg/L	0.000372	-0.00037	mg/L	0.000372	100.03%
Cd 226.502†	2.1	0.00005	mg/L	0.000194	0.00005	mg/L	0.000194	358.62%
Cr 267.716†	-0.7	-0.00003	mg/L	0.000254	-0.00003	mg/L	0.000254	956.90%
Cr 205.560†	14.0	0.00055	mg/L	0.000448	0.00055	mg/L	0.000448	81.82%
Cu 324.752†	-124.0	-0.00098	mg/L	0.000258	-0.00098	mg/L	0.000258	26.34%
Mo 202.031†	-1.7	-0.00022	mg/L	0.000207	-0.00022	mg/L	0.000207	95.25%
Ni 231.604†	-0.1	-0.00000	mg/L	0.000305	-0.00000	mg/L	0.000305	>999.9%
Pb 220.353†	-5.3	-0.00119	mg/L	0.000997	-0.00119	mg/L	0.000997	83.82%
Pb 217.000†	-1.9	-0.00185	mg/L	0.008149	-0.00185	mg/L	0.008149	441.42%
Se 203.985†	1.0	0.00151	mg/L	0.012010	0.00151	mg/L	0.012010	793.34%
Se 196.026†	-9.5	-0.01398	mg/L	0.006622	-0.01398	mg/L	0.006622	47.36%
Zn 206.200†	16.7	0.00077	mg/L	0.000125	0.00077	mg/L	0.000125	16.15%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1407076-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 114
Date Collected: 7/7/2014 1:05:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407076-001A

Analyte	Back Pressure	Flow

Cu 324.752†	66749.0	0.52754 mg/L	0.001494	0.52754 mg/L	0.001494	0.28%
QC value within limits for Cu 324.752 Recovery = 105.51%						
Mo 202.031†	4007.8	0.52822 mg/L	0.002010	0.52822 mg/L	0.002010	0.38%
QC value within limits for Mo 202.031 Recovery = 105.64%						
Ni 231.604†	11839.5	0.54049 mg/L	0.002736	0.54049 mg/L	0.002736	0.51%
QC value within limits for Ni 231.604 Recovery = 108.10%						
Pb 220.353†	2447.1	0.54812 mg/L	0.004851	0.54812 mg/L	0.004851	0.88%
QC value within limits for Pb 220.353 Recovery = 109.62%						
Pb 217.000†	535.1	0.51907 mg/L	0.007619	0.51907 mg/L	0.007619	1.47%
Se 203.985†	354.1	0.54342 mg/L	0.003890	0.54342 mg/L	0.003890	0.72%
Se 196.026†	365.4	0.53722 mg/L	0.009505	0.53722 mg/L	0.009505	1.77%
QC value within limits for Se 196.026 Recovery = 107.44%						
Zn 206.200†	11882.3	0.55031 mg/L	0.003867	0.55031 mg/L	0.003867	0.70%
QC value greater than the upper limit for Zn 206.200 Recovery = 110.06%						
QC Failed. Retry.						

DAF 7/7/14

Sequence No.: 92
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 2:08:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	580142.1	97.388	%	0.3717				0.38%
Ag 328.068†	49888.7	0.52194	mg/L	0.000285	0.52194	mg/L	0.000285	0.05%
QC value within limits for Ag 328.068 Recovery = 104.39%								
As 188.979†	329.1	0.53505	mg/L	0.005829	0.53505	mg/L	0.005829	1.09%
QC value within limits for As 188.979 Recovery = 107.01%								
As 193.696†	384.7	0.52593	mg/L	0.011320	0.52593	mg/L	0.011320	2.15%
Ba 233.527†	28852.7	0.54085	mg/L	0.001718	0.54085	mg/L	0.001718	0.32%
QC value within limits for Ba 233.527 Recovery = 108.17%								
Cd 228.802†	6363.5	0.53834	mg/L	0.005687	0.53834	mg/L	0.005687	1.06%
QC value within limits for Cd 228.802 Recovery = 107.67%								
Cd 226.502†	21027.2	0.54654	mg/L	0.000404	0.54654	mg/L	0.000404	0.07%
Cr 267.716†	15157.3	0.53967	mg/L	0.001027	0.53967	mg/L	0.001027	0.19%
Cr 205.560†	13609.0	0.53326	mg/L	0.003841	0.53326	mg/L	0.003841	0.72%
QC value within limits for Cr 205.560 Recovery = 106.65%								
Cu 324.752†	66731.5	0.52741	mg/L	0.000262	0.52741	mg/L	0.000262	0.05%
QC value within limits for Cu 324.752 Recovery = 105.48%								
Mo 202.031†	4016.4	0.52936	mg/L	0.005141	0.52936	mg/L	0.005141	0.97%
QC value within limits for Mo 202.031 Recovery = 105.87%								
Ni 231.604†	11855.1	0.54121	mg/L	0.001475	0.54121	mg/L	0.001475	0.27%
QC value within limits for Ni 231.604 Recovery = 108.24%								
Pb 220.353†	2428.0	0.54384	mg/L	0.007821	0.54384	mg/L	0.007821	1.44%
QC value within limits for Pb 220.353 Recovery = 108.77%								
Pb 217.000†	530.9	0.51504	mg/L	0.005073	0.51504	mg/L	0.005073	0.98%
Se 203.985†	342.2	0.52519	mg/L	0.018642	0.52519	mg/L	0.018642	3.55%
Se 196.026†	366.5	0.53882	mg/L	0.004199	0.53882	mg/L	0.004199	0.78%
QC value within limits for Se 196.026 Recovery = 107.76%								
Zn 206.200†	11856.8	0.54913	mg/L	0.002165	0.54913	mg/L	0.002165	0.39%
QC value within limits for Zn 206.200 Recovery = 109.83%								
All analyte(s) passed QC.								

Sequence No.: 93
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 2:10:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	602730.4	101.18	%	0.934				0.92%
Ag 328.068†	16.0	0.00017	mg/L	0.000054	0.00017	mg/L	0.000054	32.30%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	4.2	0.00685	mg/L	0.003687	0.00685	mg/L	0.003687	53.80%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.9	-0.00117	mg/L	0.000903	-0.00117	mg/L	0.000903	77.05%
Ba 233.527†	-16.8	-0.00031	mg/L	0.000305	-0.00031	mg/L	0.000305	96.97%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.6	-0.00022	mg/L	0.000428	-0.00022	mg/L	0.000428	197.20%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	3.2	0.00008	mg/L	0.000156	0.00008	mg/L	0.000156	185.25%
Cr 267.716†	-3.6	-0.00013	mg/L	0.000143	-0.00013	mg/L	0.000143	111.67%
Cr 205.560†	-4.3	-0.00017	mg/L	0.000638	-0.00017	mg/L	0.000638	382.56%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-230.8	-0.00182	mg/L	0.000472	-0.00182	mg/L	0.000472	25.89%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	7.4	0.00097	mg/L	0.000293	0.00097	mg/L	0.000293	30.16%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-8.9	-0.00040	mg/L	0.000165	-0.00040	mg/L	0.000165	40.96%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.7	-0.00150	mg/L	0.000863	-0.00150	mg/L	0.000863	57.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	3.3	0.00316	mg/L	0.002722	0.00316	mg/L	0.002722	86.24%
Se 203.985†	8.8	0.01345	mg/L	0.006464	0.01345	mg/L	0.006464	48.05%
Se 196.026†	-4.2	-0.00618	mg/L	0.005123	-0.00618	mg/L	0.005123	82.93%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	1.9	0.00009	mg/L	0.000058	0.00009	mg/L	0.000058	64.31%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 94
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

No CAT JMF 7/7/14

Autosampler Location: 3
Date Collected: 7/7/2014 2:11:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	270.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	598100.9	100.40	%	1.588				1.58%
Ag 328.068†	-2.0	-0.00002	mg/L	0.000489	-0.00002	mg/L	0.000489	>999.9%
As 188.979†	-0.2	-0.00038	mg/L	0.002464	-0.00038	mg/L	0.002464	648.82%
As 193.696†	-6.6	-0.00903	mg/L	0.002730	-0.00903	mg/L	0.002730	30.24%
Ba 233.527†	-9.4	-0.00018	mg/L	0.000060	-0.00018	mg/L	0.000060	34.38%
Cd 228.802†	-5.9	-0.00050	mg/L	0.000291	-0.00050	mg/L	0.000291	58.64%
Cd 226.502†	3.7	0.00010	mg/L	0.000027	0.00010	mg/L	0.000027	27.45%
Cr 267.716†	-0.8	-0.00003	mg/L	0.000059	-0.00003	mg/L	0.000059	216.60%
Cr 205.560†	-1.1	-0.00004	mg/L	0.000574	-0.00004	mg/L	0.000574	>999.9%
Cu 324.752†	-257.1	-0.00203	mg/L	0.000563	-0.00203	mg/L	0.000563	27.71%
Mo 202.031†	1.8	0.00024	mg/L	0.000509	0.00024	mg/L	0.000509	212.27%
Ni 231.604†	-8.1	-0.00037	mg/L	0.000302	-0.00037	mg/L	0.000302	81.61%
Pb 220.353†	0.2	0.00003	mg/L	0.001581	0.00003	mg/L	0.001581	>999.9%

Pb 217.000†	0.8	0.00073	mg/L	0.003760	0.00073	mg/L	0.003760 514.32%
Se 203.985†	2.7	0.00420	mg/L	0.018219	0.00420	mg/L	0.018219 434.16%
Se 196.026†	-6.3	-0.00930	mg/L	0.003661	-0.00930	mg/L	0.003661 39.36%
Zn 206.200†	18.5	0.00086	mg/L	0.000202	0.00086	mg/L	0.000202 23.49%

All analyte(s) passed QC.

7/7/14

Sequence No.: 95
Sample ID: 1407188-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 154
Date Collected: 7/7/2014 2:12:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407188-001A

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: 1407188-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	575001.1	96.525	%	0.2661				0.28%
Ag 328.068†	-556.0	-0.00582	mg/L	0.000331	-0.00582	mg/L	0.000331	5.70%
Concentration less than lower limit for Ag 328.068. Lower limit: -0.005 mg/L.								
As 188.979†	41.4	0.06729	mg/L	0.003388	0.06729	mg/L	0.003388	5.03%
As 193.696†	-106.0	-0.14489	mg/L	0.012803	-0.14489	mg/L	0.012803	8.84%
Ba 233.527†	136690.5	2.5623	mg/L	0.00773	2.5623	mg/L	0.00773	0.30%
Cd 228.802†	-26.3	-0.00223	mg/L	0.000180	-0.00223	mg/L	0.000180	8.06%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-197.4	-0.00513	mg/L	0.000180	-0.00513	mg/L	0.000180	3.51%
Cr 267.716†	2893.0	0.10300	mg/L	0.000614	0.10300	mg/L	0.000614	0.60%
Cr 205.560†	2243.2	0.08790	mg/L	0.000870	0.08790	mg/L	0.000870	0.99%
Cu 324.752†	7842.2	0.06198	mg/L	0.000514	0.06198	mg/L	0.000514	0.83%
Mo 202.031†	16.0	0.00211	mg/L	0.000675	0.00211	mg/L	0.000675	31.99%
Ni 231.604†	1724.2	0.07871	mg/L	0.000980	0.07871	mg/L	0.000980	1.24%
Pb 220.353†	581.3	0.13020	mg/L	0.001825	0.13020	mg/L	0.001825	1.40%
Pb 217.000†	213.3	0.20692	mg/L	0.008714	0.20692	mg/L	0.008714	4.21%
Se 203.985†	75.0	0.11512	mg/L	0.015898	0.11512	mg/L	0.015898	13.81%
Se 196.026†	-46.6	-0.06856	mg/L	0.020440	-0.06856	mg/L	0.020440	29.81%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	6367.5	0.29490	mg/L	0.000513	0.29490	mg/L	0.000513	0.17%

Sequence No.: 96
Sample ID: 1406B43-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 155
Date Collected: 7/7/2014 2:13:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

7/7/14

Nebulizer Parameters: 1406B43-001A

Analyte	Back Pressure	Flow
All	272.0 kPa	0.55 L/min

Mean Data: 1406B43-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	471853.6	79.209	%	0.9758				1.23%
Internal Standard Check less than the lower limit for Y 371.029. Recovery = 79.2%								
Ag 328.068†	12999.2	0.13600	mg/L	0.000420	0.13600	mg/L	0.000420	0.31%
As 188.979†	282.9	0.45989	mg/L	0.010918	0.45989	mg/L	0.010918	2.37%
As 193.696†	256.3	0.35042	mg/L	0.012150	0.35042	mg/L	0.012150	3.47%
Ba 233.527†	153086.9	2.8696	mg/L	0.01110	2.8696	mg/L	0.01110	0.39%
Cd 228.802†	20.7	0.00175	mg/L	0.000360	0.00175	mg/L	0.000360	20.58%
Cd 226.502†	252.2	0.00656	mg/L	0.000234	0.00656	mg/L	0.000234	3.58%
Cr 267.716†	-3072.3	-0.10939	mg/L	0.001476	-0.10939	mg/L	0.001476	1.35%

Mean Data: 1407161-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	640070.1	107.45	%	0.993				0.92%
Ag 328.068†	-16.7	-0.00017	mg/L	0.000211	-0.00017	mg/L	0.000211	120.46%
As 188.979†	2949.3	4.7945	mg/L	0.08276	4.7945	mg/L	0.08276	1.73%
As 193.696†	3273.8	4.4759	mg/L	0.10199	4.4759	mg/L	0.10199	2.28%
Ba 233.527†	480911.7	9.0147	mg/L	0.00772	9.0147	mg/L	0.00772	0.09%
Cd 228.802†	139.8	0.01183	mg/L	0.000302	0.01183	mg/L	0.000302	2.55%
Cd 226.502†	-129.6	-0.00337	mg/L	0.000231	-0.00337	mg/L	0.000231	6.86%
Cr 267.716†	215037.2	7.6563	mg/L	0.00334	7.6563	mg/L	0.00334	0.04%
Cr 205.560†	187979.3	7.3658	mg/L	0.00416	7.3658	mg/L	0.00416	0.06%
Cu 324.752†	1221278.7	9.6523	mg/L	0.00886	9.6523	mg/L	0.00886	0.09%
Mo 202.031†	249.8	0.03293	mg/L	0.001043	0.03293	mg/L	0.001043	3.17%
Ni 231.604†	3889.6	0.17757	mg/L	0.003646	0.17757	mg/L	0.003646	2.05%
Pb 220.353†	707.3	0.15843	mg/L	0.000103	0.15843	mg/L	0.000103	0.07%
Pb 217.000†	247.2	0.23978	mg/L	0.011424	0.23978	mg/L	0.011424	4.76%
Se 203.985†	43.8	0.06728	mg/L	0.006709	0.06728	mg/L	0.006709	9.97%
Se 196.026†	-51.9	-0.07631	mg/L	0.014324	-0.07631	mg/L	0.014324	18.77%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	336082.1	15.565	mg/L	0.0428	15.565	mg/L	0.0428	0.28%

Sequence No.: 105
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/7/2014 2:25:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	600897.0	100.87	%	0.474				0.47%
Ag 328.068†	47997.0	0.50215	mg/L	0.000671	0.50215	mg/L	0.000671	0.13%
QC value within limits for Ag 328.068 Recovery = 100.43%								
As 188.979†	318.9	0.51843	mg/L	0.006163	0.51843	mg/L	0.006163	1.19%
QC value within limits for As 188.979 Recovery = 103.69%								
As 193.696†	381.3	0.52132	mg/L	0.007630	0.52132	mg/L	0.007630	1.46%
Ba 233.527†	27667.1	0.51862	mg/L	0.001554	0.51862	mg/L	0.001554	0.30%
QC value within limits for Ba 233.527 Recovery = 103.72%								
Cd 228.802†	6099.0	0.51596	mg/L	0.002974	0.51596	mg/L	0.002974	0.58%
QC value within limits for Cd 228.802 Recovery = 103.19%								
Cd 226.502†	20173.3	0.52434	mg/L	0.000806	0.52434	mg/L	0.000806	0.15%
Cr 267.716†	14520.2	0.51699	mg/L	0.000392	0.51699	mg/L	0.000392	0.08%
Cr 205.560†	13022.6	0.51028	mg/L	0.003800	0.51028	mg/L	0.003800	0.74%
QC value within limits for Cr 205.560 Recovery = 102.06%								
Cu 324.752†	64061.7	0.50631	mg/L	0.001275	0.50631	mg/L	0.001275	0.25%
QC value within limits for Cu 324.752 Recovery = 101.26%								
Mo 202.031†	3833.8	0.50529	mg/L	0.003709	0.50529	mg/L	0.003709	0.73%
QC value within limits for Mo 202.031 Recovery = 101.06%								
Ni 231.604†	11368.1	0.51897	mg/L	0.000316	0.51897	mg/L	0.000316	0.06%
QC value within limits for Ni 231.604 Recovery = 103.79%								
Pb 220.353†	2331.5	0.52223	mg/L	0.002363	0.52223	mg/L	0.002363	0.45%
QC value within limits for Pb 220.353 Recovery = 104.45%								
Pb 217.000†	510.3	0.49503	mg/L	0.013674	0.49503	mg/L	0.013674	2.76%
Se 203.985†	341.8	0.52454	mg/L	0.003149	0.52454	mg/L	0.003149	0.60%
Se 196.026†	354.6	0.52131	mg/L	0.012913	0.52131	mg/L	0.012913	2.48%
QC value within limits for Se 196.026 Recovery = 104.26%								
Zn 206.200†	11371.9	0.52667	mg/L	0.000691	0.52667	mg/L	0.000691	0.13%
QC value within limits for Zn 206.200 Recovery = 105.33%								

All analyte(s) passed QC.

Sequence No.: 106
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/7/2014 2:27:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	607008.0	101.90	%	1.150				1.13%
Ag 328.068†	13.7	0.00014	mg/L	0.000188	0.00014	mg/L	0.000188	131.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	0.1	0.00010	mg/L	0.006505	0.00010	mg/L	0.006505	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	0.7	0.00091	mg/L	0.001942	0.00091	mg/L	0.001942	212.45%
Ba 233.527†	1.1	0.00002	mg/L	0.000463	0.00002	mg/L	0.000463	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.1	-0.00018	mg/L	0.000455	-0.00018	mg/L	0.000455	250.39%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	5.2	0.00014	mg/L	0.000048	0.00014	mg/L	0.000048	35.60%
Cr 267.716†	7.5	0.00027	mg/L	0.000319	0.00027	mg/L	0.000319	118.73%
Cr 205.560†	-5.8	-0.00023	mg/L	0.000388	-0.00023	mg/L	0.000388	171.07%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-176.4	-0.00139	mg/L	0.000469	-0.00139	mg/L	0.000469	33.64%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	3.9	0.00051	mg/L	0.000244	0.00051	mg/L	0.000244	48.07%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-8.7	-0.00040	mg/L	0.000293	-0.00040	mg/L	0.000293	73.58%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.3	0.00053	mg/L	0.001653	0.00053	mg/L	0.001653	314.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	0.6	0.00054	mg/L	0.004270	0.00054	mg/L	0.004270	796.59%
Se 203.985†	9.5	0.01459	mg/L	0.005509	0.01459	mg/L	0.005509	37.75%
Se 196.026†	-2.9	-0.00424	mg/L	0.009394	-0.00424	mg/L	0.009394	221.76%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	6.7	0.00031	mg/L	0.000119	0.00031	mg/L	0.000119	38.26%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 107
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/7/2014 2:28:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

No CAT SMP 7/7/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	271.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	605594.3	101.66	%	0.571				0.56%
Ag 328.068†	-22.0	-0.00023	mg/L	0.000178	-0.00023	mg/L	0.000178	77.36%
As 188.979†	2.6	0.00419	mg/L	0.001511	0.00419	mg/L	0.001511	36.07%
As 193.696†	-3.6	-0.00493	mg/L	0.004206	-0.00493	mg/L	0.004206	85.37%
Ba 233.527†	13.7	0.00026	mg/L	0.000353	0.00026	mg/L	0.000353	137.98%
Cd 228.802†	-1.1	-0.00009	mg/L	0.000307	-0.00009	mg/L	0.000307	325.87%

7/21/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407901**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-001 **Collection Date:** 7/18/2014 9:52:00 AM
Client Sample ID: FFOR-CF-0028 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.1	1.0		wt%	1	R20010	7/18/2014 5:09:00 PM

Lab ID: 1407901-002 **Collection Date:** 7/18/2014 10:01:00 AM
Client Sample ID: FFOR-CF-0029 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.9	1.0		wt%	1	R20010	7/18/2014 5:09:00 PM

Lab ID: 1407901-003 **Collection Date:** 7/18/2014 10:12:00 AM
Client Sample ID: FFOR-CF-0030 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	6.6	1.0		wt%	1	R20010	7/18/2014 5:09:00 PM

Lab ID: 1407901-004 **Collection Date:** 7/18/2014 12:09:00 PM
Client Sample ID: FFOR-CF-0031 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	12	1.0		wt%	1	R20010	7/18/2014 5:09:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7-18-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/23/2014
Start time: 7-18-14 5:09pm	Start Temp: 110C		Reviewed by: JWB 7/21/14
End time: 7-21-14 8:09am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1407901-001a	31.7	38.75				7.0390		#VALUE!
1407901-002a	32.1	39.91				7.8320		#VALUE!
1407901-003a	32.1	39.62				7.4870		#VALUE!
1407901-004a	32.0	38.97				6.9730		#VALUE!
MeOH Kits								#VALUE!
1407901-001a	26.1	40.71	1.00	2.00	2.00	14.6100	0.0000	0.6845
1407901-002a	25.5	38.65	1.00	2.00	2.00	13.1500	0.0000	0.7605
1407901-003a	26.0	39.25	1.00	2.00	2.00	13.2500	0.0000	0.7547
1407901-004a	25.8	38.57	1.00	2.00	2.00	12.7700	0.0000	0.7831
Pmoist								#VALUE!
1407901-001a			1.34	24.98	23.29		7.1489	#VALUE!
1407901-002a			1.33	26.48	24.49		7.9125	#VALUE!
1407901-003a			1.33	28.66	26.86		6.5862	#VALUE!
1407901-004a			1.36	29.71	26.36		11.8166	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407901-001a

$\frac{24.98 - 23.29}{24.98 - 1.34} \times 100 = 7.1489\%$

cg 7.21.14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1407901-001a

$\frac{10g}{14.61g} = 0.6845$

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Prep Start Date: **7/18/2014 4:24:34 P**
Prep End Date: **7/18/2014 5:00:00 P**

V 08/21/14

Prep Batch ID: **14314** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14314		Solid			5	0	0	5	1.000	7/18/2014	7/18/2014
LCS-14314		Solid			5	0	0	5	1.000	7/18/2014	7/18/2014
1407901-001A	FFOR-CF-0028	MeOH (Soil)			7.039	0	0	5	0.710	7/18/2014	7/18/2014
1407901-001AMS		MeOH (Soil)			7.06	0	0	5	0.708	7/18/2014	7/18/2014
1407901-001AMSD		MeOH (Soil)			7	0	0	5	0.714	7/18/2014	7/18/2014
1407901-002A	FFOR-CF-0029	MeOH (Soil)			7.832	0	0	5	0.638	7/18/2014	7/18/2014
1407901-003A	FFOR-CF-0030	MeOH (Soil)			7.487	0	0	5	0.668	7/18/2014	7/18/2014
1407901-004A	FFOR-CF-0031	MeOH (Soil)			6.973	0	0	5	0.717	7/18/2014	7/18/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8032	8260-5035 Low LCS	lcs/ms/msd	25970	Container-01 of 01	4	µL

7.21.14

Analytical Report
Lab Order: **1407901**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-001 **Collection Date:** 07/18/14 9:52:00 AM
Client Sample ID: FFOR-CF-0028 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14301	07/18/14 7:34:49 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	14301	07/18/14 7:34:49 PM
Surr: DNOP	78.8	57.9-140		%REC	1	14301	07/18/14 7:34:49 PM

Lab ID: 1407901-002 **Collection Date:** 07/18/14 10:01:00 AM
Client Sample ID: FFOR-CF-0029 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14301	07/18/14 7:56:26 PM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	14301	07/18/14 7:56:26 PM
Surr: DNOP	89.6	57.9-140		%REC	1	14301	07/18/14 7:56:26 PM

Lab ID: 1407901-003 **Collection Date:** 07/18/14 10:12:00 AM
Client Sample ID: FFOR-CF-0030 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14301	07/18/14 8:18:09 PM
Motor Oil Range Organics (MRO)	ND	53		mg/Kg-dry	1	14301	07/18/14 8:18:09 PM
Surr: DNOP	99.6	57.9-140		%REC	1	14301	07/18/14 8:18:09 PM

Lab ID: 1407901-004 **Collection Date:** 07/18/14 12:09:00 PM
Client Sample ID: FFOR-CF-0031 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14301	07/18/14 8:39:37 PM
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dry	1	14301	07/18/14 8:39:37 PM
Surr: DNOP	83.2	57.9-140		%REC	1	14301	07/18/14 8:39:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Start Date: 7/18/2014 8:00:00 PM

Prep End Date: 7/18/2014 8:00:00 PM Reviewed BN

Prep Batch ID: 14301 Prep Code: 8015_S_PREP Technician: Brenda Neto

Initial Temp: °C Final Temp °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14301		Soil	BN 7.18.14		10	0	0	10	1.000	7/18/2014	7/18/2014
LCS-14301		Soil			10	0	0	10	1.000	7/18/2014	7/18/2014
1407855-001A	SE-Corner	MeOH (Soil)			10.11	0	0	10	0.989	7/18/2014	7/18/2014
1407855-001AMS		MeOH (Soil)			10.11	0	0	10	0.989	7/18/2014	7/18/2014
1407855-001AMSD		MeOH (Soil)			9.97	0	0	10	1.003	7/18/2014	7/18/2014
1407855-002A	W-Wall-3'	MeOH (Soil)			9.98	0	0	10	1.002	7/18/2014	7/18/2014
1407855-003A	W-Wall-3'-Center	MeOH (Soil)			10.1	0	0	10	0.990	7/18/2014	7/18/2014
1407855-004A	W-Wall-2'	MeOH (Soil)			9.95	0	0	10	1.005	7/18/2014	7/18/2014
1407855-005A	SW-Corner-4'	MeOH (Soil)			10.08	0	0	10	0.992	7/18/2014	7/18/2014
1407860-001A	CR-1-1-12	Soil			10.04	0	0	10	0.996	7/18/2014	7/18/2014
1407861-001A	H285-1-3"	Soil			10 10.00	0	0	10	1.000	7/18/2014	7/18/2014
1407901-001A	FFOR-CF-0028	MeOH (Soil)			10 ~~10.11~~ 10.04 BN 7.18.14	0	0	10	1.000	7/18/2014	
1407901-002A	FFOR-CF-0029	MeOH (Soil)			10 10.00	0	0	10	1.000	7/18/2014	
1407901-003A	FFOR-CF-0030	MeOH (Soil)			10 10.07	0	0	10	1.000	7/18/2014	
1407901-004A	FFOR-CF-0031	MeOH (Soil)			10 9.96	0	0	10	1.000	7/18/2014	
~~1407859-001A~~	SH BTM RELEASE	Soil	NOT USED BN 7.18.14		10	0	0	10	1.000	7/18/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand BN 7.18.14	14066	Container-01 of 01	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14005	1,000 DNOP	SAMP	26000	Container-01 of 01	100	µL
ST8015-14006	5,000 ppm Diesel, 500 ppm DNOP	LCS	26102	Container-01 of 01	100	µL

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1407844-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-001A <D>.dat	1
6	Unknown	0	1	1407844-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-002A <D>.dat	1
7	Unknown	0	1	1407844-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-003A <D>.dat	1
8	Unknown	0	1	1407844-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-004A <D>.dat	1
9	Unknown	0	1	1407844-005A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-005A <D>.dat	1
10	Unknown	0	1	1407844-006A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407844-006A <D>.dat	1
11	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
12	Unknown	0	1	MB-14299	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14299 <D>.dat	1
13	Unknown	0	1	1407584-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407584-001A <D>.dat	1
14	Unknown	0	1	LCS-14299	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14299 <D>.dat	1
15	Unknown	0	1	LCSD-14299	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCSD-14299 <D>.dat	1
16	Unknown	0	1	1407838-001B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-001B <D>.dat	1
17	Unknown	0	1	1407838-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-002A <D>.dat	1
18	Unknown	0	1	1407838-003B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-003B <D>.dat	1

7.21.14

19	Unknown	0	1	1407838-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-004A <D>.dat	1
20	Unknown	0	1	1407838-005B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-005B <D>.dat	1
21	Unknown	0	1	1407838-006A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-006A <D>.dat	1
22	Unknown	0	1	1407838-007B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-007B <D>.dat	1
23	Unknown	0	1	LCSD-14299	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCSD-14299 <D>.dat	1
24	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
25	Unknown	0	1	MB-14301	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14301 <D>.dat	1
26	Unknown	0	1	LCS-14301	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14301 <D>.dat	1
27	Unknown	0	1	1407901-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407901-001A <D>.dat	1
28	Unknown	0	1	1407901-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407901-002A <D>.dat	1
29	Unknown	0	1	1407901-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407901-003A <D>.dat	1
30	Unknown	0	1	1407901-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407901-004A <D>.dat	1
31	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
32	Unknown	0	1	1407838-008A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-008A <D>.dat	1
33	Unknown	0	1	1407838-008A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-008A <D>.dat	1
34	Unknown	0	1	1407838-009B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-009B <D>.dat	1
35	Unknown	0	1	1407838-010A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-010A <D>.dat	1
36	Unknown	0	1	1407838-011B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-011B <D>.dat	1
37	Unknown	0	1	1407838-012A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-012A <D>.dat	1

2/19/14 ran twice, importing original run

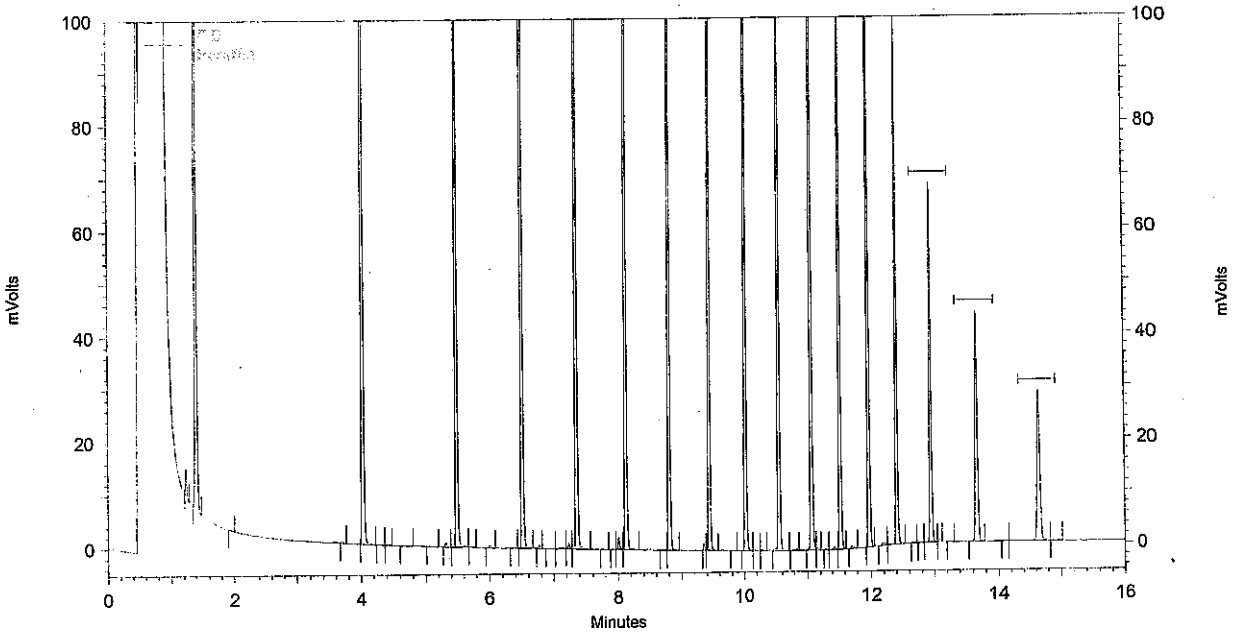
38	Unknown	0	1	1407838-013B	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-013B <D>.dat	1
39	Unknown	0	1	1407838-014A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407838-014A <D>.dat	1
40	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
41	Unknown	0	1	1407648-008A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407648-008A <D>.dat	1
42	Unknown	0	1	1407647-009A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407647-009A <D>.dat	1
43	Unknown	0	1	1407827-003C	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407827-003C <D>.dat	1
44	Unknown	0	1	1407585-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407585-003A <D>.dat	1
45	Unknown	0	1	1407622-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407622-001A <D>.dat	1
46	Unknown	0	1	1407622-004A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407622-004A <D>.dat	1
47	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
48	Unknown	0	1	1407583-001A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-001A <D>.dat	1
49	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
50	Unknown	0	1	1407583-001AMS	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-001AMS <D>.dat	1
51	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
52	Unknown	0	1	1407583-001AMSD	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-001AMSD <D>.dat	1
53	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
54	Unknown	0	1	1407583-002A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-002A <D>.dat	1
55	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
56	Unknown	0	1	1407583-003A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-003A <D>.dat	1

Sequence Print

57	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
58	Unknown	0	1	1407583-005A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-005A <D>.dat	1
59	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
60	Unknown	0	1	1407583-006A	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1407583-006A <D>.dat	1
61	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
62	Unknown	0	1	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
63	Unknown	0	1	100 PPM CCV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1506**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 07-18-14 10-01-43 AM.dat
Aquired: 7/18/2014 10:07:29 AM



FID Results

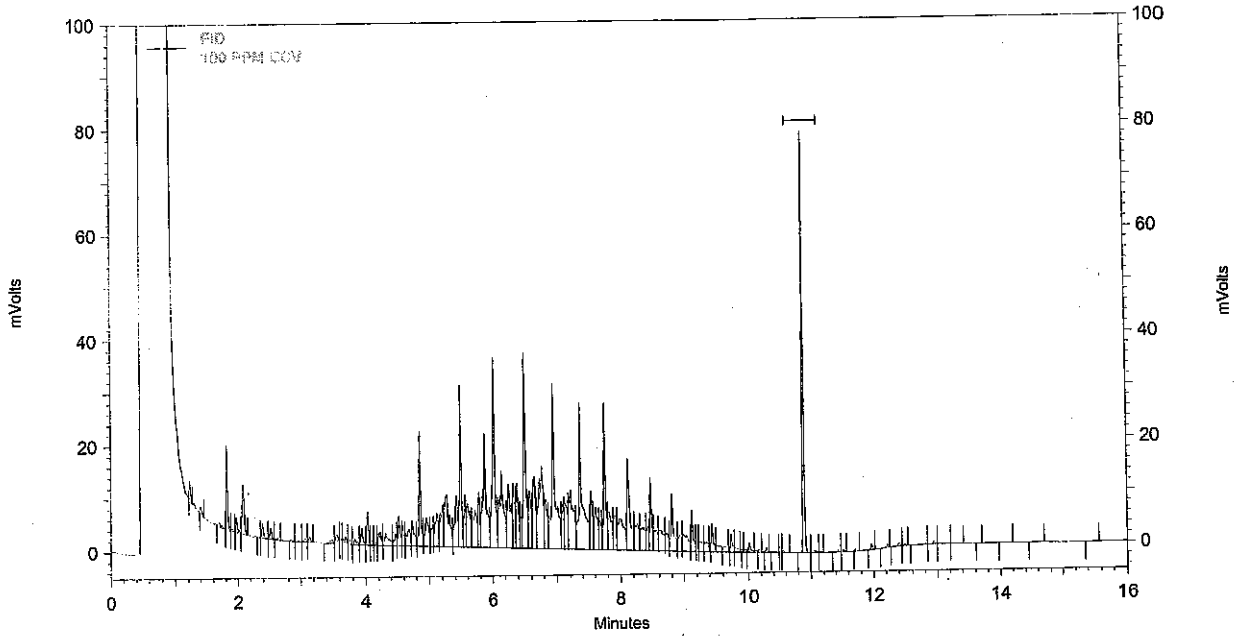
Name	Retention Time	Area	ug/ml
C8	1.403	372773	0.000
C10	4.027	441884	0.000
C12	5.488	425160	0.000
C14	6.501	405239	0.000
C16	7.355	387779	0.000
C18	8.112	365675	0.000
C20	8.805	352130	0.000
C22	9.435	332008	0.000
C24	10.016	315407	0.000
C26	10.555	315249	0.000
C28	11.056	306561	0.000
C30	11.525	284936	0.000
C32	11.968	230182	0.000
C34	12.400	166767	0.000
C36	12.939	125638	0.000
C38	13.659	102754	0.000
C40	14.645	91065	0.000

Analyst BN

Reviewed By JV

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1507**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 07-18-14 10-23-36 AM.dat
Aquired: 7/18/2014 10:29:16 AM



FID Results

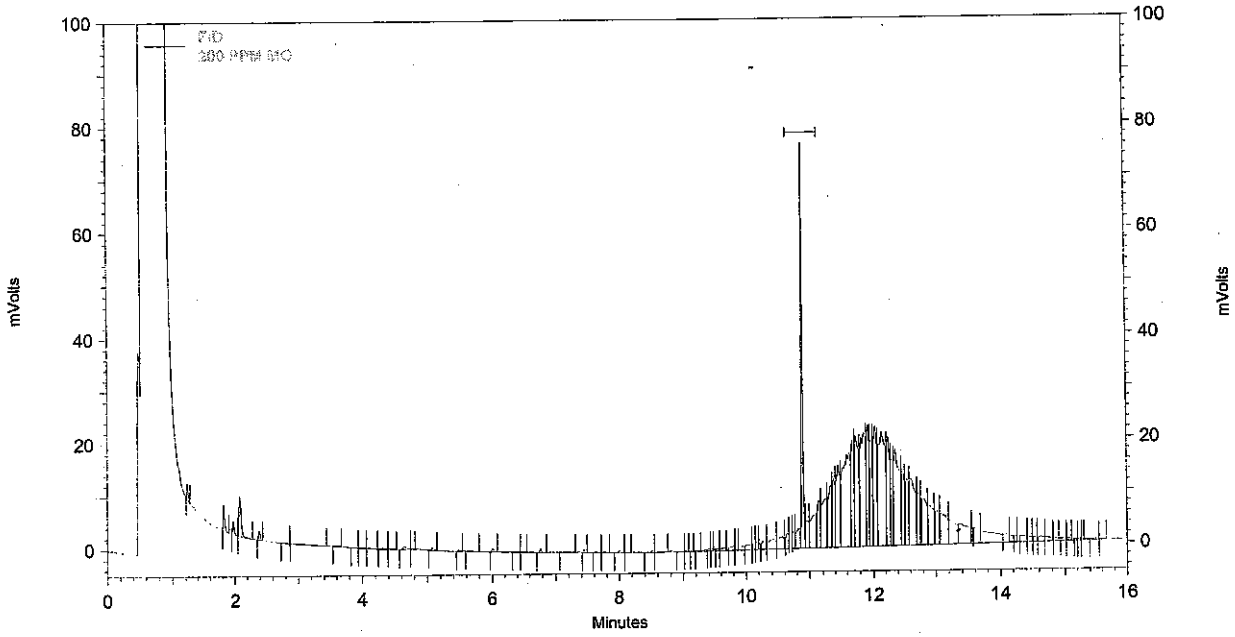
Name	Retention Time	Area	ug/ml
DNOP	10.891	114472	8.766
DRO		1937201	105.747
MRO		12330	0.000

Analyst BN

Reviewed By JL

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 07-18-14 10-45-24 AM.dat
Aquired: 7/18/2014 10:50:57 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.891	122432	9.355
DRO		79479	6.032
MRO		1592195	160.506

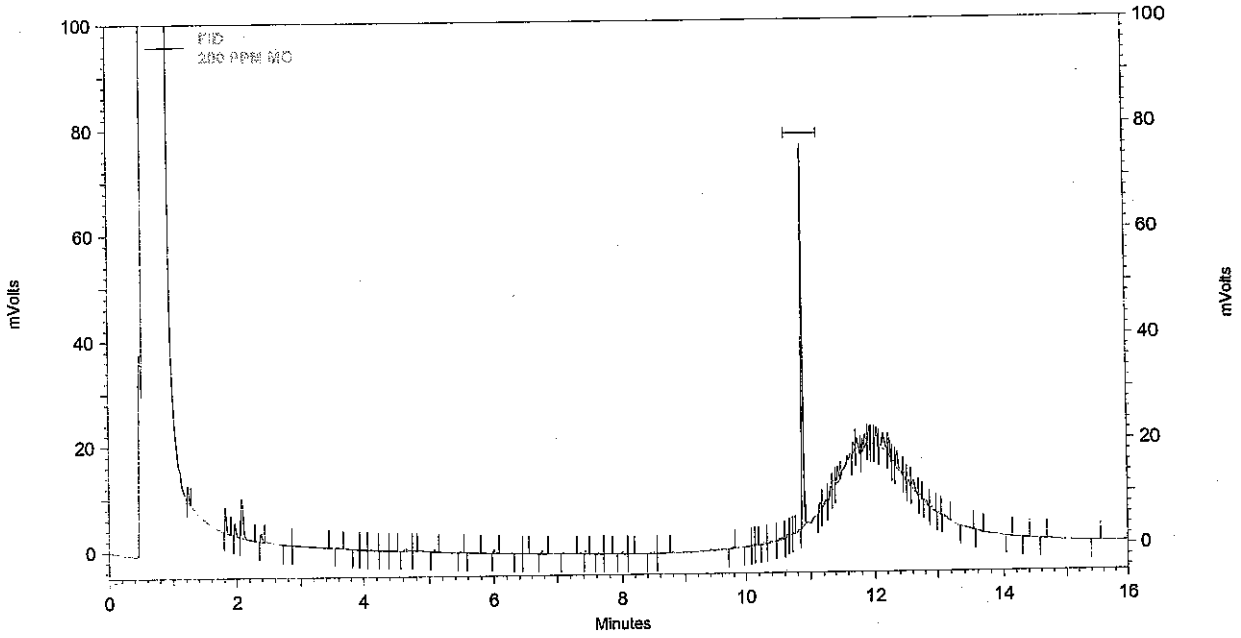
Analyst BN

Reviewed By [illegible]

9.355
−7.834
1.521
+160.506
162.027 X100
200
=81.0135% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1504**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 07-18-14 10-45-24 AM.dat
Aquired: 7/18/2014 10:50:57 AM



FID Results

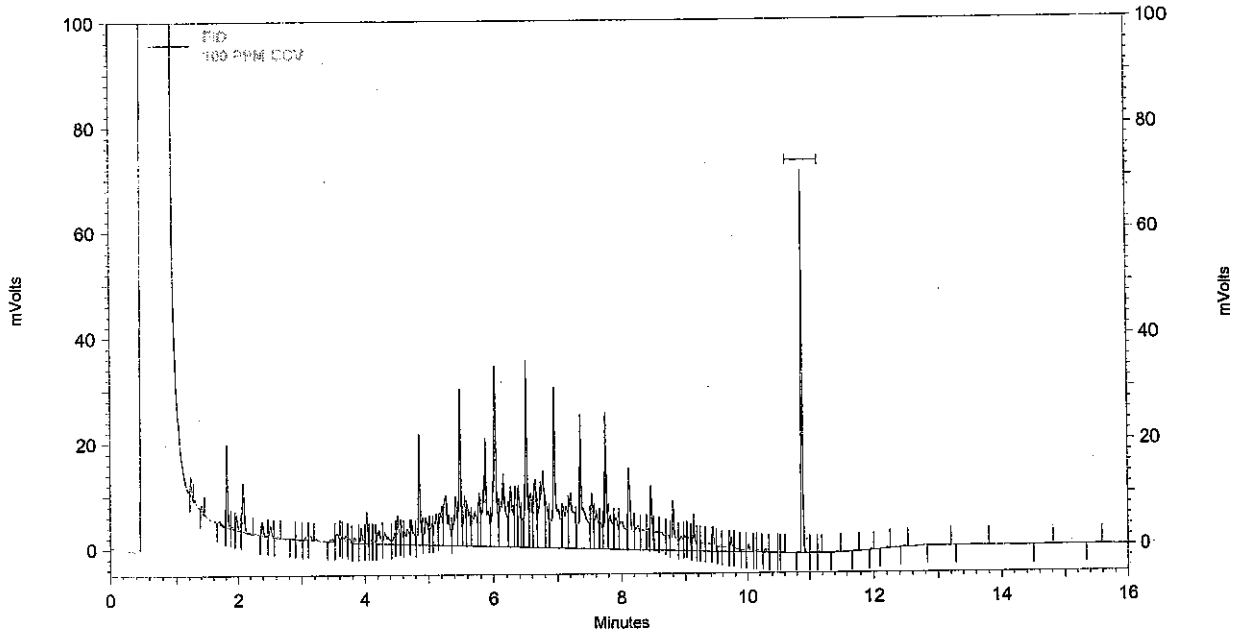
Name	Retention Time	Area	ug/ml
DNOP	10.891	101894	7.834
DRO		21861	2.910
MRO		89028	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1507**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 07-18-14 6-24-17 PM.dat
Aquired: 7/18/2014 6:29:45 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	100375	7.722
DRO		1809774	98.965
MRO		6469	0.000

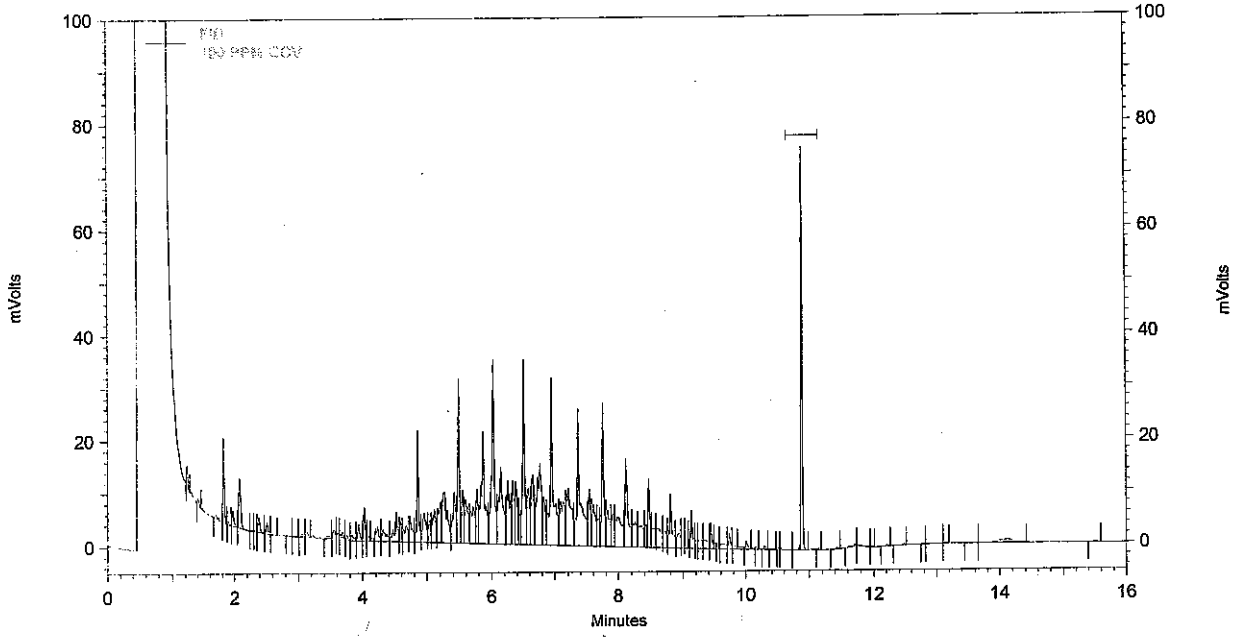
Analyst _____

Reviewed By _____

reporting samples with adequate surr. recovery

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1507**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 07-18-14 8-55-44 PM.dat
Aquired: 7/18/2014 9:01:17 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	105026	8.066
DRO		1871647	102.259
MRO		16228	0.000

Analyst _____

Reviewed By _____

8015D DRO
Calibration Summary

Instrument: DANTE Date: 6.23.14

Method: 8015D

Calibration Name: 062314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: Brett C. H

QA: Janice Corley

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ___ and ___.

Sequence Print

BN 6.23.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 ICV	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1
17	Unknown	0	1	10,000 TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10,000 TEST <D>.dat	1
18	Unknown	0	1	LCS TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS TEST <D>.dat	1

DE

6/24/14

BN 6.23.14

19	Unknown	0	1	1,000 TEST	060214.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 TEST <D>.dat	1

VJR 6/24/14

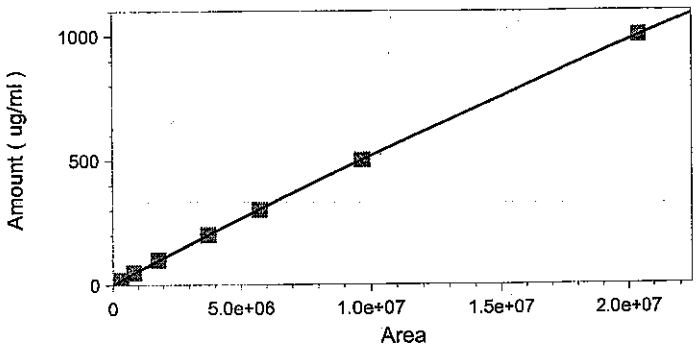
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:34:48 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 5.92008e-005 RF StDev: 1.03466e-005 RF %RSD: 17.4772
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.62972e-013x^2 + 5.42061e-005x + 1.72559
Goodness of fit (r^2): 0.999955 BN 6.23.14

J 6/24/14

Group: DRO -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	49765	139645	336970	842532	1793964
RF	8.037777554 50618e-005	7.16101543198 826e-005	5.935246461109 3e-005	5.934492695826 39e-005	5.5742478667 3534e-005
Last Area Residual	-0.422504	0.709926	0.0384334	2.79069	1.87689
Rep StDev					
Rep %RSD					
Rep 1 Area	49765	139645	336970	842532	1793964
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\4 PPM 06-23-14 10-36-10 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\10 PPM 06-23-14 10-57-41 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 06-23-14 11-19-26 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 06-23-14 11-41-05 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 06-23-14 12-02-49 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/24/2014 8:27:57 AM	6/24/2014 8:28:26 AM	6/24/2014 8:28:48 AM	6/24/2014 8:29:17 AM	6/24/2014 8:29:39 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:34:48 AM
User: System
Instrument: Dante (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	3740313	5745777	9675386	20400764
RF	5.347146081 09e-005	5.22122595429 652e-005	5.167752480366 16e-005	4.901777207951 62e-005
Last Area				
Residual	-0.794519	-4.50018	-1.57321	1.87448
Rep StDev				
Rep %RSD				
Rep 1 Area	3740313	5745777	9675386	20400764
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 06-23-14 12-24-35 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 06-23-14 12-46-36 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 06-23-14 1-08-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 06-23-14 1-30-25 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/24/2014 8:30:04 AM	6/24/2014 8:30:28 AM	6/24/2014 8:30:43 AM	6/24/2014 8:30:56 AM

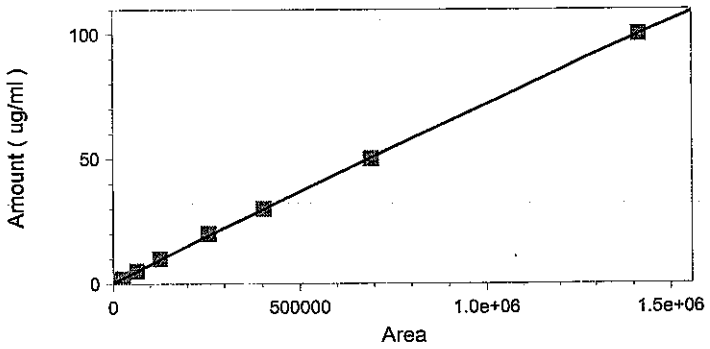
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:36:10 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 7.66254e-005 RF StDev: 3.83617e-006 RF %RSD: 5.00639
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.07472e-012x^2 + 7.47487e-005x + 0.249589
Goodness of fit (r^2): 0.999900 BR 6.23.14

J JR 6/24/14

Peak: DNOP -- ESTD -- FID-AL1



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5095	12001	26294	63838	126612
RF	7.850834151 12856e-005	8.33263894675 444e-005	7.606298014756 22e-005	7.832325574109 46e-005	7.8981455154 3298e-005
Last Area Residual	-0.230354	-0.146205	-0.212905	-0.00886331	0.335624
Rep StDev					
Rep %RSD					
Rep 1 Area	5095	12001	26294	63838	126612
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\4 PPM 06-23-14 10-36-10 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\10 PPM 06-23-14 10-57-41 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 06-23-14 11-19-26 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 06-23-14 11-41-05 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 06-23-14 12-02-49 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	6/24/2014 8:27:57 AM	6/24/2014 8:28:26 AM	6/24/2014 8:28:48 AM	6/24/2014 8:29:17 AM	6/24/2014 8:29:39 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 8:36:10 AM
User: System
Instrument: Dante (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	259112	403425	692153	1415674
RF	7.718669918 79959e-005	7.43632645473 136e-005	7.223836348321 83e-005	7.063773156814 35e-005
Last Area Residual	0.588572	0.0953529	-0.514067	0.0928441
Rep StDev				
Rep %RSD				
Rep 1 Area	259112	403425	692153	1415674
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 06-23-14 12-24-35 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 06-23-14 12-46-36 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 06-23-14 1-08-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 06-23-14 1-30-25 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	6/24/2014 8:30:04 AM	6/24/2014 8:30:28 AM	6/24/2014 8:30:43 AM	6/24/2014 8:30:56 AM

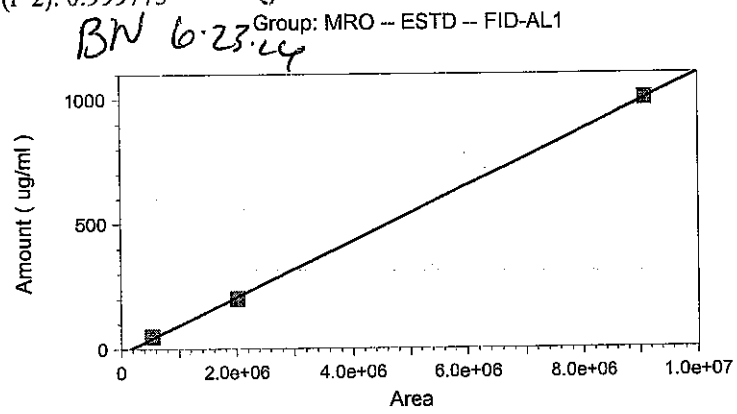
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
Print Time: 6/24/2014 11:54:52 AM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000100445 RF StDev: 8.81022e-006 RF %RSD: 8.77117
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000111623x - 17.2190
Goodness of fit (r^2): 0.999775

J 6/24/14

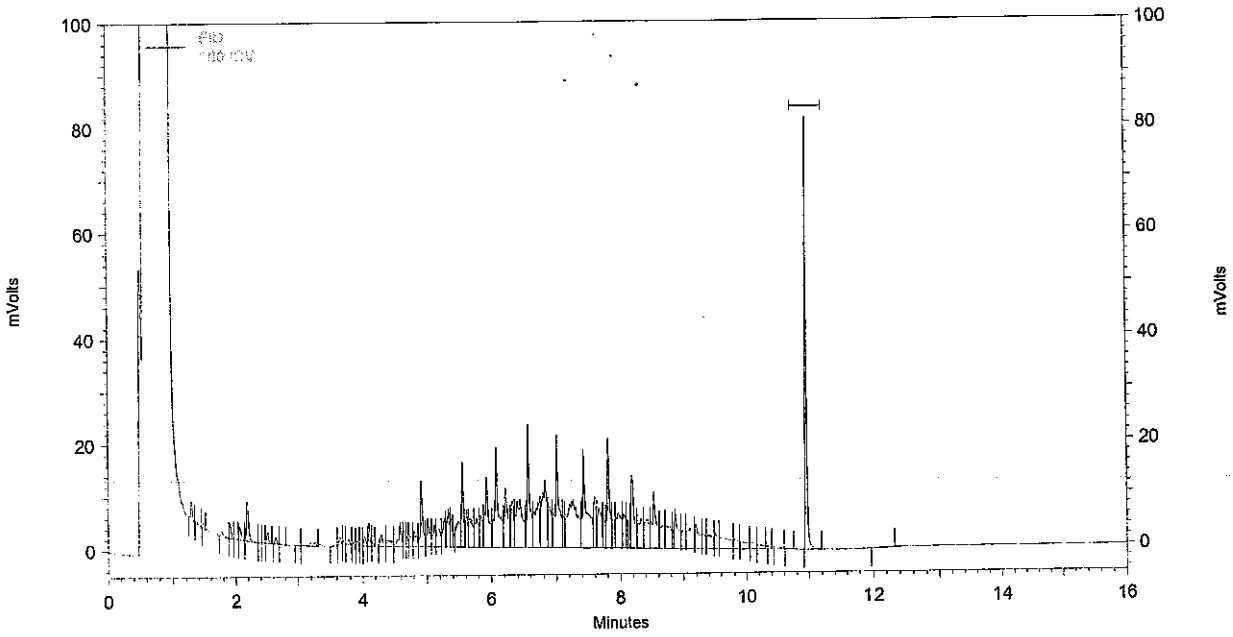
BN 6.23.14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	540858	2020163	9100182
RF	9.244570663 64924e-005	9.90019122219 346e-005	0.000109887912 131867
Last Area Residual	6.84684	-8.27742	1.43058
Rep StDev			
Rep %RSD			
Rep 1 Area	540858	2020163	9100182
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO 06-23-14 2-13-57 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 06-23-14 2-35-44 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO 06-23-14 2-57-40 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	6/24/2014 8:31:39 AM	6/24/2014 8:32:02 AM	6/24/2014 8:32:20 AM

Instrument: **Dante (Offline)** Vial #: **12** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1499**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\100 ICV 06-23-14 1-52-00 PM.dat
Aquired: 6/23/2014 1:57:50 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.955	126809	9.679
DRO		1683206	92.221
MRO		836	0.000

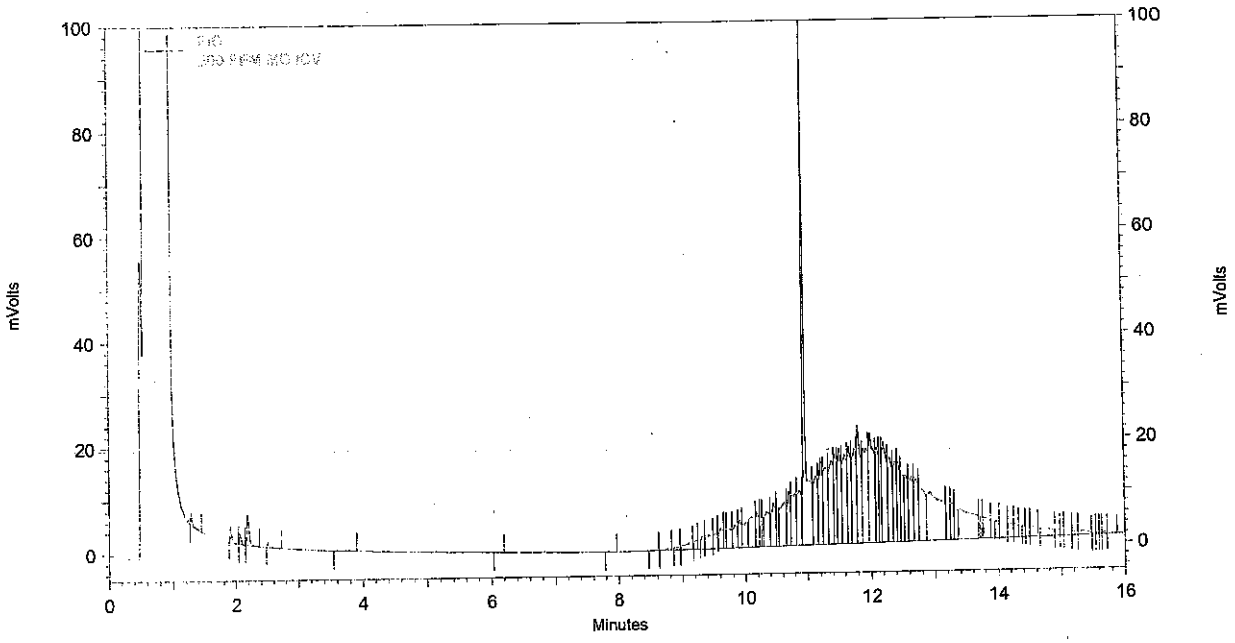
Analyst BN

Reviewed By

±20%

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1503**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\200 PPM MO ICV 06-23-14 3-19-34 PM.dat
Aquired: 6/23/2014 3:25:25 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.960	241957	18.156
DRO		302209	18.083
MRO		2098722	217.046

Analyst BN

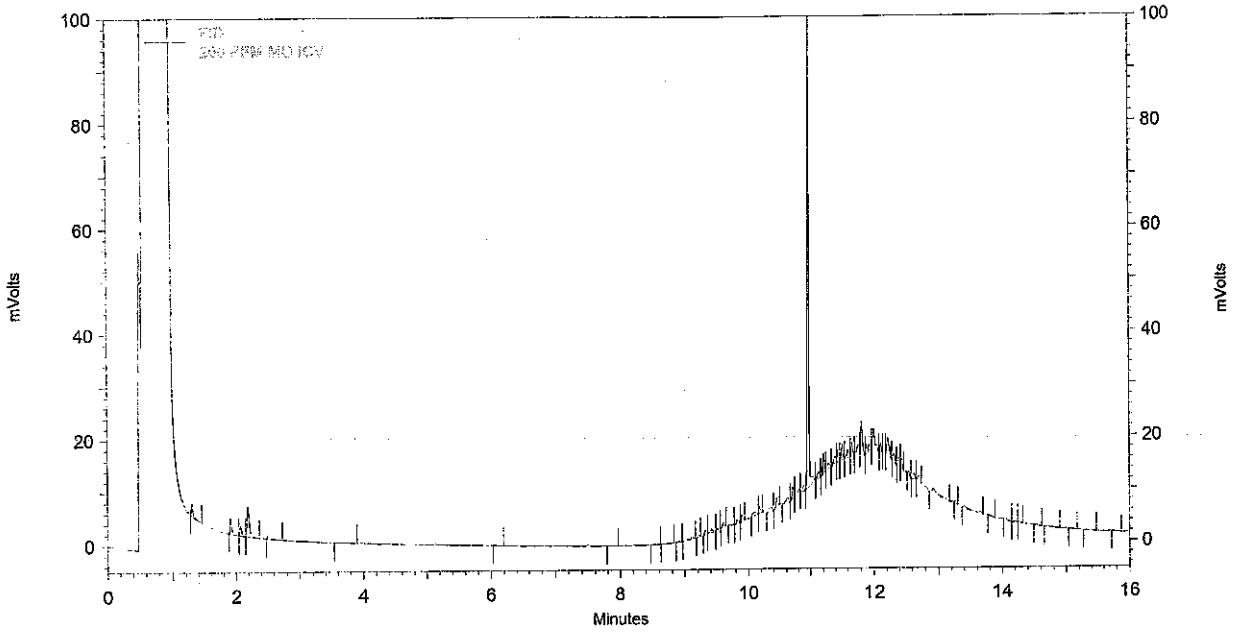
Reviewed By

±20% ✓

18.156
− 11.041
7.115
+217.046
224.161
200 x100
= 112.0805 ✓

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1503**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\062314.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\062314 CRV\200 PPM MO ICV 06-23-14 3-19-34 PM.dat
Aquired: 6/23/2014 3:25:25 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.960	145232	11.041
DRO		29675	3.334
MRO		108907	0.000

Analyst _____

Reviewed By _____

L3 J 7-2314

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407901**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-001 **Collection Date:** 7/18/2014 9:52:00 AM
Client Sample ID: FFOR-CF-0028 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg-dry	1	R20042	7/21/2014 12:32:32 PM
Surr: BFB	113	61.2-137		%REC	1	R20042	7/21/2014 12:32:32 PM

Lab ID: 1407901-002 **Collection Date:** 7/18/2014 10:01:00 AM
Client Sample ID: FFOR-CF-0029 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg-dry	1	R20042	7/21/2014 1:56:47 PM
Surr: BFB	112	61.2-137		%REC	1	R20042	7/21/2014 1:56:47 PM

Lab ID: 1407901-003 **Collection Date:** 7/18/2014 10:12:00 AM
Client Sample ID: FFOR-CF-0030 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg-dry	1	R20042	7/21/2014 2:25:00 PM
Surr: BFB	114	61.2-137		%REC	1	R20042	7/21/2014 2:25:00 PM

Lab ID: 1407901-004 **Collection Date:** 7/18/2014 12:09:00 PM
Client Sample ID: FFOR-CF-0031 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg-dry	1	R20042	7/21/2014 2:53:12 PM
Surr: BFB	112	61.2-137		%REC	1	R20042	7/21/2014 2:53:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

.rian Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

ımpleList: C:\VarianWS\070614v.smp

:eated: Sun Jul 06 15:00:06 2014
)dified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: RA 7-6-14
1st Review By: RA 7-7-14
QA'd By: JNB 7/8/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO **Date:** 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex **Date:** 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☐	☐	X	☐	VQL: 227.27ng
Isobutyl alcohol	☐	☐	☐	X	
1,4-Dioxane	☐	☐	☐	X	
trans-1,4-Dichloro-2-butene	☐	☐	X	☐	VQL: 500ng

Analyst: 7-7-14

QA: NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: ___ and ___.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA # IS1	RT #	AREA # IS2	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7-7-14

DB 7/8/14

7/7/2014 9:37

Analyst: RAA

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2														
b13 7-7-20	93813	14.31		93420	16.34													

Surrogate

- [ ]
- [x]

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/7/2014 9:37

Analyst: RAA

Internal Standard And RT Summary

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/7/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 7/7/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27 | 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AT 7-7-14

JB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

Calibration Curves Report

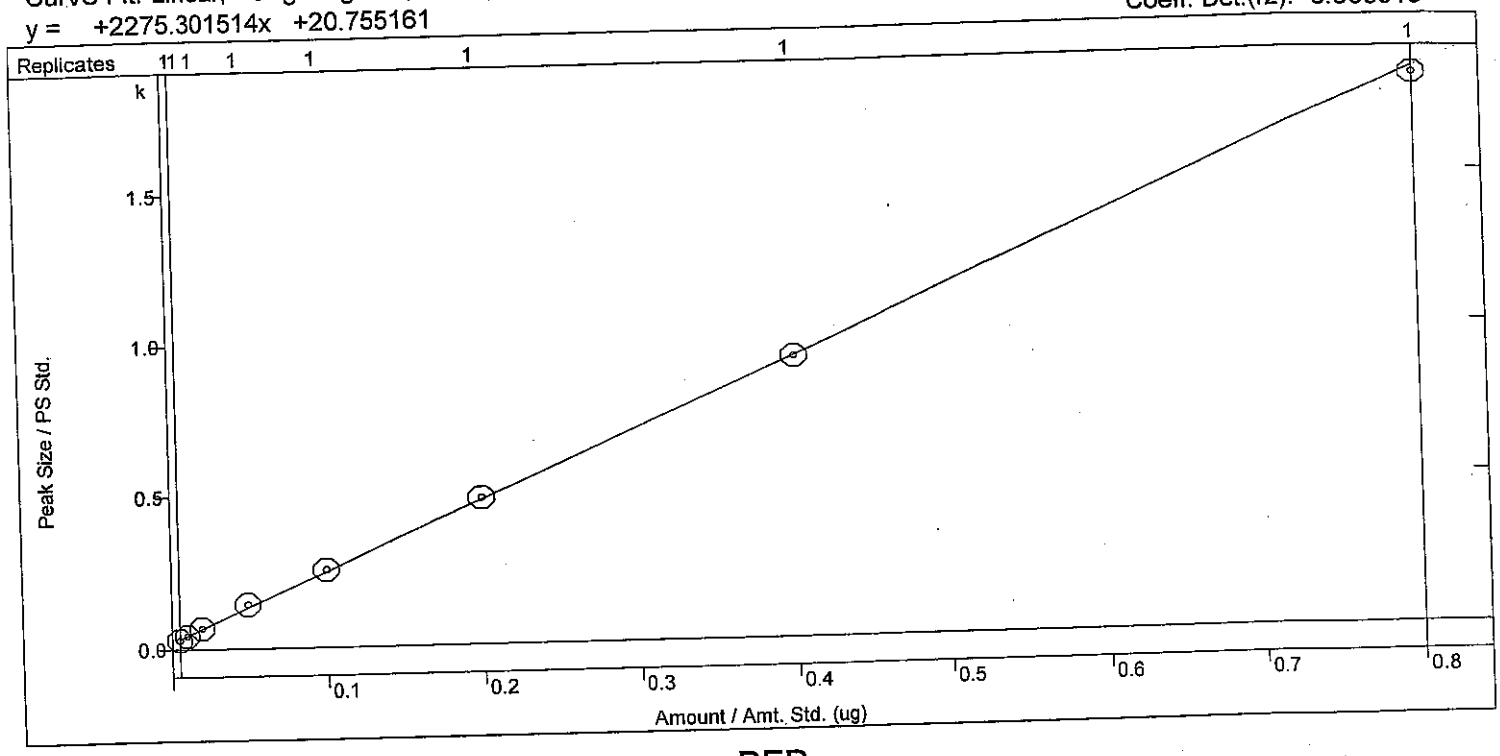
AT 7-7-14

Method:	c:\varianws\methods\070614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
Recalc Method:	...70614v gro.mth	Cmpd. Table Updated:	7/7/2014 7:58 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

GRO

Curve Fit: Linear, Origin: Ignore, Weight: 1/X
y = +2275.301514x +20.755161

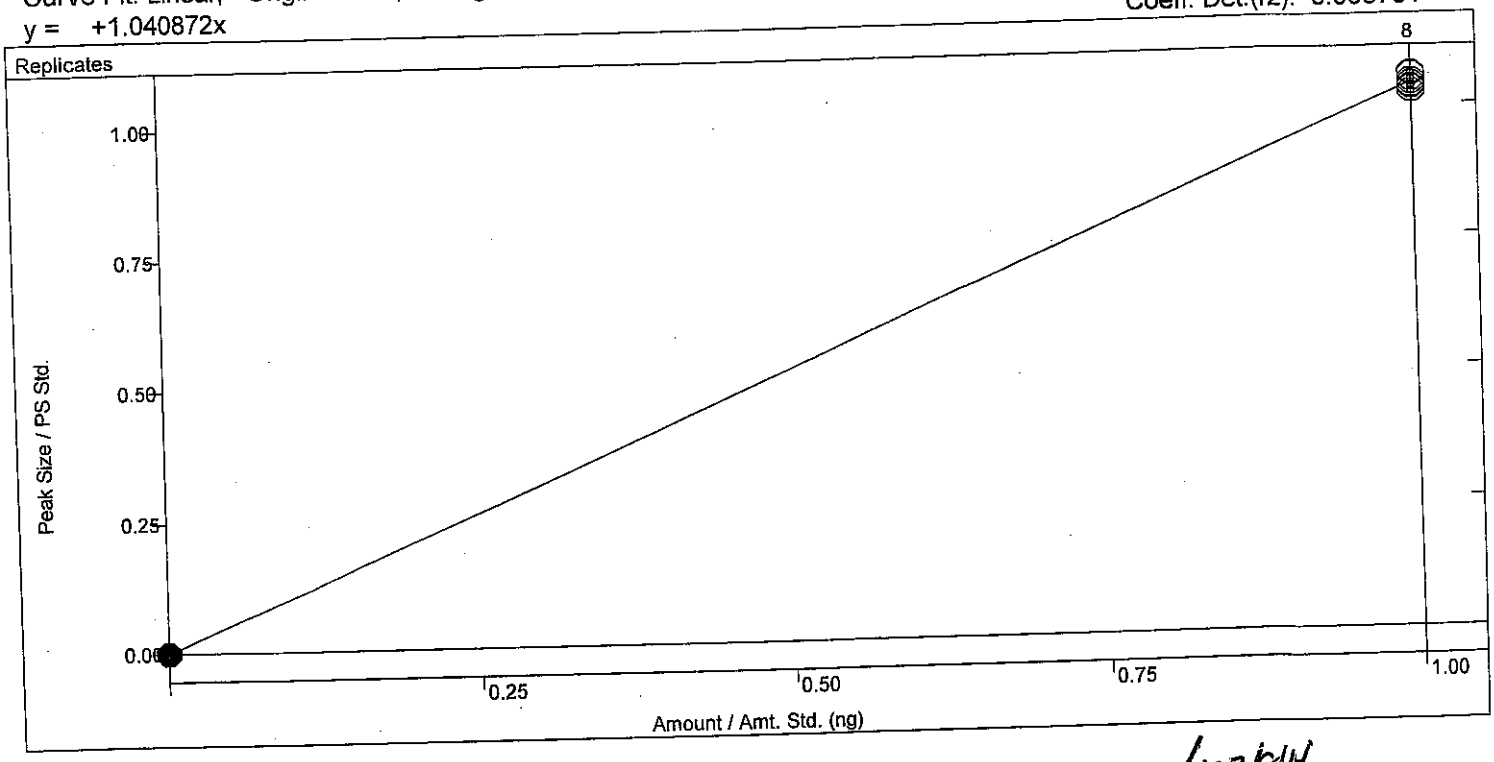
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

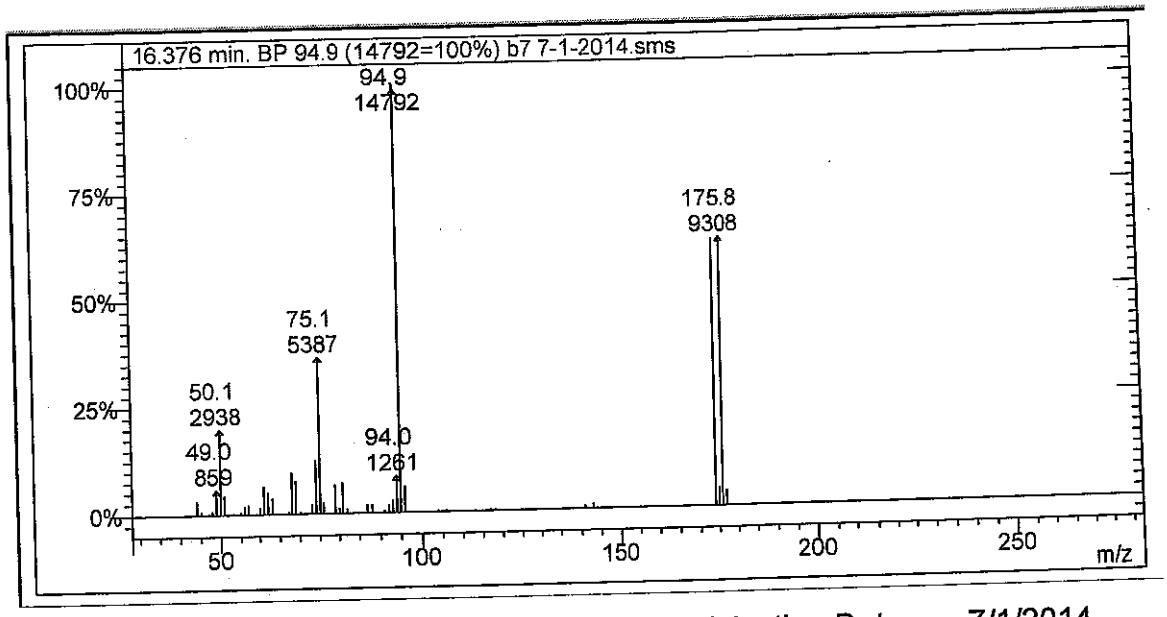
Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JNB 7/8/14

BFB 8260B Report



Lab File ID: b7 7-1-2014.sms

Injection Date: 7/1/2014

Injection Time: 19:11

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.86	PASS
75	30-60% of m/z 95	36.42	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.03	PASS
173	<2% of m/z 174	0.10	PASS
174	>50% of m/z 95	62.48	PASS
175	5-9% of m/z 174	6.46	PASS
176	>95% but <101% of m/z 174	100.71	PASS
177	5-9% of m/z 176	5.57	PASS

7/7/14

7/7/2014 9:37 Analyst: RAA

7/8/14

rian Star Workstation - Generic SampleList Mon Jul 21 15:00:31 2014

mpleList: C:\VarianWS\072114v.smp

eated: Mon Jul 21 08:13:19 2014
dified: Mon Jul 21 15:00:30 2014

****

Line	Sample Name	Injection Notes
1	b1	below tune @ 8:48
	Notes All injections contain V-11-0480	
2	rtm	below 52 KSH 7/22/14
	Notes V-18-1994	
3	2.5ug gro ccv	below @ 9:44
	Notes V-18-2047	
4	2.5ug gro lcs	below
	Notes V-18-2036	
5	50ng ccv	below @ 10:40
	Notes V-54-0443	
6	100ng lcs	below
	Notes V-11-8051	
7	vsb Deli	below tune @ 11:36
	Notes 7/14/14-7/21/14 DF	
8	vsb Fridge	below
	Notes 7/14/14-7/21/14 DF	
9	1407901-001a	below
	Notes x1-100uL MSGRO	
10	1407901-001ams	below
	Notes x1-100uL MSGRO V-18-2036	} rr ms/d missp. h0
11	1407901-001amsd	below
	Notes x1-100uL MSGRO V-18-2036	
12	1407901-002a	below
	Notes x1-100uL MSGRO	
13	1407901-003a	below
	Notes x1-100uL MSGRO	
14	1407901-004a	below
	Notes x1-100uL MSGRO	
15	1407634-007a	below
	Notes r10-0.5mL	
16	1407877-001a	below
	Notes x1-5mL HS (Did not ms/d because of low sample volume)	
17	1407877-002a	below
	Notes x1-5mL	
18	1407877-002a ms	below
	Notes x1-5mL V-11-8051	
19	1407877-002a msd	below
	Notes x1-5mL V-11-8051	
20	1407690-007a	below
	Notes x2-2.5mL DDS	
21	1407690-008a	below
	Notes x2-2.5mL DDS	
22	1407690-009a	below
	Notes x1-5mL TB	
23	1407760-001a	below
	Notes x10-0.5mL	
24 handoff	1407760-001a	below
	Notes r1-5mL	
25	b2	none
26	1407760-002a	below r500 Toluene
	Notes x50-0.1mL	
27	1407760-002a	below @ 8:58 Archon Failed KSH 7/22/14
	Notes r5-1mL	Broken vial, not human error
28	b3	none
29	1407760-003a	below
	Notes x1-5mL	
30	1407760-004a	below
	Notes x1-5mL	
31	tt	none
32	b4	none
33	100ng ccv	below
	Notes V-54-0444	
34	vcb2	none
35	1407760-005a	below
	Notes x50-0.1mL	
36	1407760-005a	below
	Notes r5-1mL	
37	b5	none
38	1407760-006a	below
	Notes x10-0.5mL	
39	1407760-007a	below
	Notes x1-5mL	
40	1407760-008a	below
	Notes x10-0.5mL	

Loaded By: KSH 7/21/14
1st Review By: KSH 7/22/14
QA'd By: 7-22-14

```
                Notes  x1-5mL TB
42          1407826-001a      below
                Notes  x50-0.1mL
43          1407826-001a      below
                Notes  r5-1mL
44                  b6        none
45          1407826-002a      below
                Notes  x1-5mL
46          1407826-003a      below
                Notes  x1-5mL
47          1407826-004a      below
                Notes  x1-5mL
48          1407826-005a      below
                Notes  x1-5mL TB
49

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\072114v.rcl.
```

Loaded By: PK
1st Review By: KJH
QA'd By: MF 7-22-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ws\data\pending\072114v\gro\2.5ug gro ccv 7-21-2014.SMS Lab Sample ID: 2.5ug gro ccv

Instrument ID: VAL Date Analyzed: 7/21/2014 Time Analyzed: 09:44

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	86195	14.30										
UPPER LIMIT	172390	14.80										
LOWER LIMIT	43098	13.80										
EPA SAMPLE NO												
b1 7-21-20	101899	14.31										
rtm 7-21-2	83680	14.30										
2.5ug gro	86683	14.31										
1407901-00	73612	14.31										
1407901-00	73561	14.31										
1407901-00	73061	14.31										
1407901-00	71413	14.31										
1407901-00	68832	14.31										
1407901-00	74040	14.31										

KSH 7/22/14

✓ RA 7.22.14

7/22/2014 14:50

Analyst: KJH

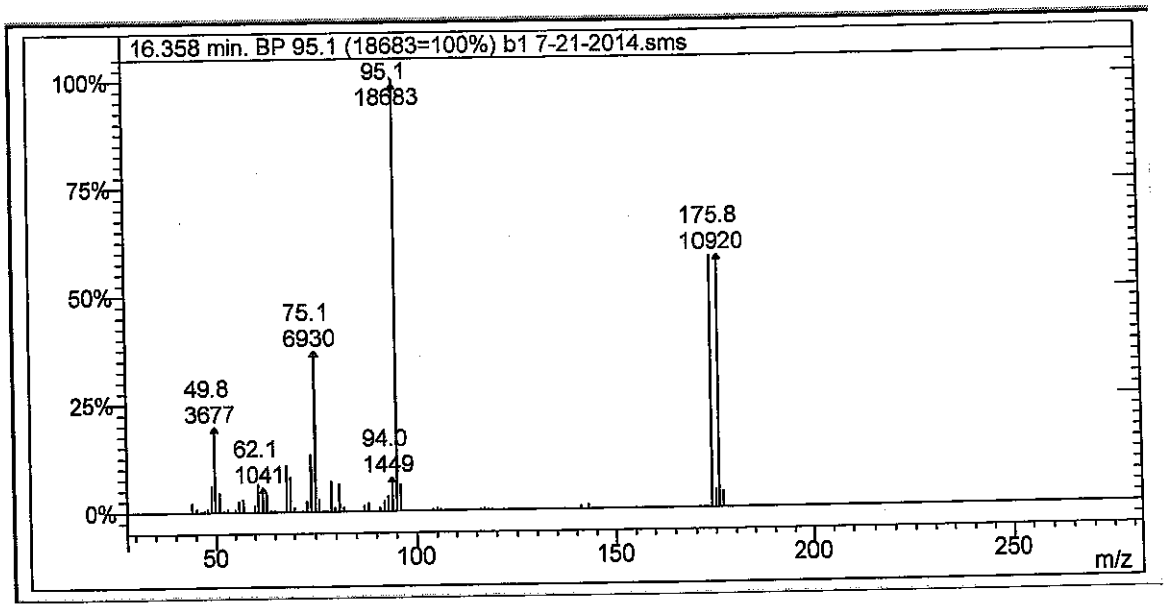
	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
IS1												

IS1 = Benzene-d5-, chloro-
AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7-22-14

Analyst: KJH

BFB 8260B Report



Lab File ID: b1 7-21-2014.sms

Injection Date: 7/21/2014

Injection Time: 8:48

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.68	PASS
75	30-60% of m/z 95	37.09	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.09	PASS
173	<2% of m/z 174	0.18	PASS
174	>50% of m/z 95	58.22	PASS
175	5-9% of m/z 174	7.01	PASS
176	>95% but <101% of m/z 174	100.40	PASS
177	5-9% of m/z 176	6.09	PASS

KJH 7/21/14

7.22.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıding\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.5ug gro	86195	14.30										

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/21/2014 10:27

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/21/2014 Time: 9:44

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.5ug gro ccv 7-21-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2600.359	0.100	2.50	2.40	4.0	20.0	PASS	PASS
BFB	1.006	0.100	50.00	48.33	3.3	30.0	PASS	PASS

KJH 7/21/14

JK 7-22-14

Analyst: KJH

arian Star Workstation - Generic SampleList Tue Jul 22 15:41:45 2014

ampleList: C:\VarianWS\072214v.smp

reated: Tue Jul 22 08:12:03 2014
odified: Tue Jul 22 15:41:39 2014

****

Line	Sample Name	Injection	Notes
1	b1	below	tune @ 8:46
	Notes	All injections contain V-52-0480	
2	rtm	below	
	Notes	V-18-1994	
3	2.25mg gro ccv	below	@9:42
	Notes	V-18-2047	
4	2.5mg gro lcs	below	
	Notes	V-18-2036	
5	100ng ccv	below	@10:38
	Notes	V-54-0444	
6	100ngLcs200ngAnnex	below	
	Notes	V-11-8051/ V-11-8023	
7	vcb	none	tune @ 11:34
8	1407901-001ams	below	
	Notes	r1-100uL V-18-2036 MSGRO	
9	1407901-001amsd	below	
	Notes	r1-100uL V-18-2036 MSGRO	
10	1407760-002a	below	
	Notes	r500-0.01mL Toluene	
11	1407901-001ams	below	
	Notes	r1-100uL V-18-2036 MSGRO	
12	1407901-001amsd	below	
	Notes	r1-100uL V-18-2036 MSGRO	
13	1407760-003a	below	
	Notes	x1-5mL	
14	1407760-003a ms	below	
	Notes	x1-5mL V-11-8051	
15	1407760-003a msd	below	
	Notes	x1-5mL V-11-8051	
16	1407760-004a	below	
	Notes	x1-5mL	
17	1407760-005a	below	
	Notes	x50-0.1mL	
18	1407760-005a	below	
	Notes	r5-1mL	
19	b2	none	
20	1407760-006a	below	r 100
	Notes	x10-0.5mL	
21	1407760-007a	below	r 50
	Notes	x1-5mL	
22	1407760-008a	below	r 100
	Notes	x10-0.5mL	
23	1407760-009a	below	r 1 COV
	Notes	x1-5mL TB	
24	1407826-001a	below	
	Notes	x50-0.1mL	
25	1407826-001a	below	
	Notes	r5-1mL	
26	b3	none	
27	1407826-002a	below	
	Notes	x1-5mL	
28	1407826-003a	below	
	Notes	x1-5mL	
29	1407826-004a	below	
	Notes	x1-5mL	
30	1407826-005a	below	@10:21
	Notes	x1-5mL TB	
31	tt	none	
32	75ng ccv	below	@11:17
	Notes	V-54-0444	
33	vcb2	none	tune @ 11:45
34	1407882-001a	below	
	Notes	x1-5mL	
35	1407882-002a	below	
	Notes	x1-5mL	
36	1407882-003a	below	

mg for GRO # 7.23.14

Loaded By: KSH 7/22/14
1st Review By: KSH 7/23/14
QA'd By: # 7-23-14

12 KSH 7/23/14

```
37          1407882-004a      below
               Notes  x5-1mL
38          1407882-005a      below
               Notes  x2-2.5mL DDS
39          1407882-006a      below
               Notes  x100-0.05mL
40          1407882-007a      below
               Notes  x50-0.1mL
41          1407882-007a      below
               Notes  r5-1mL
42                b4       none
43          1407882-008a      below
               Notes  x10-0.5mL
44                b5       none
45

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\072214v.rcl.
```

r1000 Ethyl benzene

@ 4:24

Loaded By: KSH 7/22/14
1st Review By: KSH 7/23/14
QA'd By: 7/23.14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\gro\2.25ng gro ccv 7-22-2014.SMS Lab Sample ID: 2.25ng gro ccv

Instrument ID: VAL Date Analyzed: 7/22/2014 Time Analyzed: 09:42

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	82728	14.30										
UPPER LIMIT	165456	14.80										
LOWER LIMIT	41364	13.80										
EPA SAMPLE NO												
b1 7-22-20	88627	14.31										
rtm 7-22-2	78760	14.30										
2.5ng gro	85060	14.30										
1407901-00	70099	14.30										
1407901-00	70172	14.31										
1407901-00	70282	14.30										
1407901-00	74291	14.30										

KJH 7/23/14 JA 7.23.14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

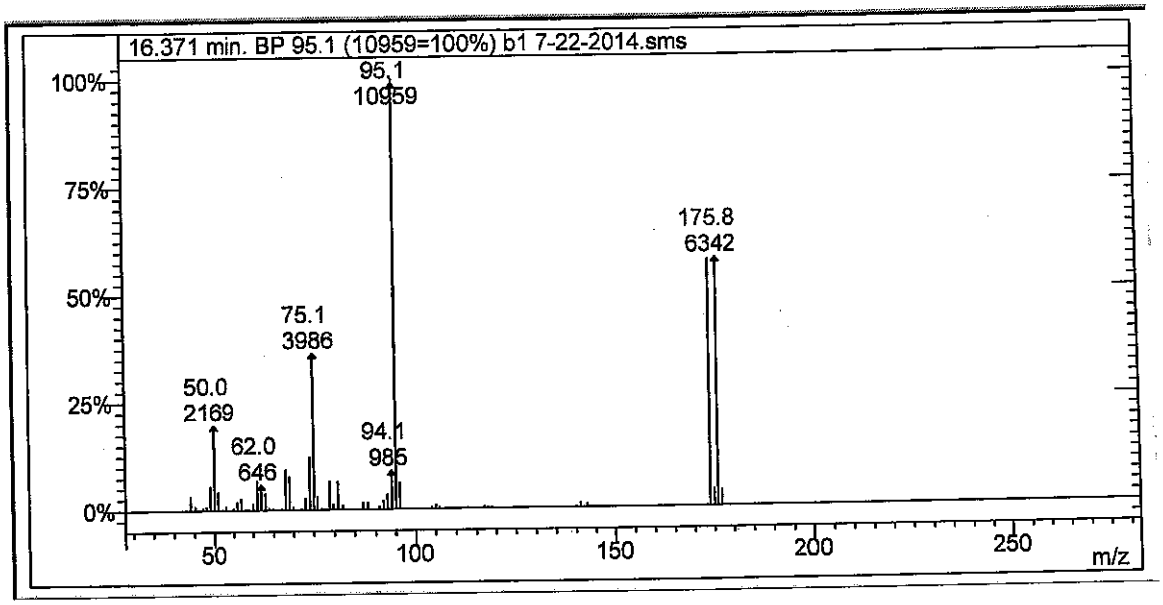
Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

BFB 8260B Report



Lab File ID: b1 7-22-2014.sms

Injection Date: 7/22/2014

Injection Time: 8:46

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.79	PASS
75	30-60% of m/z 95	36.37	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.14	PASS
173	<2% of m/z 174	0.43	PASS
174	>50% of m/z 95	57.39	PASS
175	5-9% of m/z 174	6.92	PASS
176	>95% but <101% of m/z 174	100.84	PASS
177	5-9% of m/z 176	6.37	PASS

KJH 7/22/14

KJH 7-23-14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): ıding\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.25ng gro	82728	14.30										

KJH 7/22/14

JH 7.23.14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 7/22/2014 Time: 9:42

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.25ng gro ccv 7-22-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	3116.591	0.100	2.25	2.63	-16.7	20.0	PASS	PASS
BFB	1.060	0.100	50.00	50.90	-1.8	30.0	PASS	PASS

KSH 7/22/14

7-23-14

Analyst: KJH

JB 7/22/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407901**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1407901

Lab ID: 1407901-001
Client Sample ID: FFOR-CF-0028

Collection Date: 7/18/2014 9:52:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Toluene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Ethylbenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Xylenes, Total	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Methyl tert-butyl ether (MTBE)	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2,4-Trimethylbenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,3,5-Trimethylbenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2-Dichloroethane (EDC)	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2-Dibromoethane (EDB)	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Naphthalene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Acetone	ND	0.00765		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Bromobenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Bromodichloromethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Bromoform	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Bromomethane	ND	0.00383		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
2-Butanone	ND	0.00765		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Carbon tetrachloride	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Chlorobenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Chloroethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Chloroform	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Chloromethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
2-Chlorotoluene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Carbon disulfide	ND	0.00765		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
4-Chlorotoluene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
cis-1,2-DCE	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
cis-1,3-Dichloropropene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2-Dibromo-3-chloropropane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Dibromochloromethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Dibromomethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2-Dichlorobenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,3-Dichlorobenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,4-Dichlorobenzene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Dichlorodifluoromethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1-Dichloroethane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1-Dichloroethene	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2-Dichloropropane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,3-Dichloropropane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
2,2-Dichloropropane	ND	0.00153		mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Hexachlorobutadiene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Isopropylbenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
4-Isopropyltoluene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Methylene chloride	ND	0.00383	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
n-Butylbenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
2-Hexanone	ND	0.00765	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
n-Propylbenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
sec-Butylbenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Styrene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
4-Methyl-2-pentanone	ND	0.00765	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
tert-Butylbenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1,1,2-Tetrachloroethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1,2,2-Tetrachloroethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Tetrachloroethene (PCE)	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
trans-1,2-DCE	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
trans-1,3-Dichloropropene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2,3-Trichlorobenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2,4-Trichlorobenzene	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1,1-Trichloroethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,1,2-Trichloroethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Trichloroethene (TCE)	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Trichlorofluoromethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
1,2,3-Trichloropropane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Vinyl chloride	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Vinyl acetate	ND	0.00765	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Bromochloromethane	ND	0.00153	mg/Kg-dry	1	14314	7/18/2014 5:30:53 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	1	14314	7/18/2014 5:30:53 PM
Surr: 4-Bromofluorobenzene	97.8	65.3-135	%REC	1	14314	7/18/2014 5:30:53 PM
Surr: Dibromofluoromethane	89.3	70-130	%REC	1	14314	7/18/2014 5:30:53 PM
Surr: Toluene-d8	109	70-130	%REC	1	14314	7/18/2014 5:30:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-002
Client Sample ID: FFOR-CF-0029
Collection Date: 7/18/2014 10:01:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: cadg
Benzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Toluene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Ethylbenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Xylenes, Total	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2,4-Trimethylbenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,3,5-Trimethylbenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2-Dichloroethane (EDC)	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2-Dibromoethane (EDB)	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Naphthalene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Acetone	0.00906	0.00693		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Bromobenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Bromodichloromethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Bromoform	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Bromomethane	ND	0.00347		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
2-Butanone	ND	0.00693		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Carbon tetrachloride	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Chlorobenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Chloroethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Chloroform	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Chloromethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
2-Chlorotoluene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Carbon disulfide	ND	0.00693		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
4-Chlorotoluene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
cis-1,2-DCE	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
cis-1,3-Dichloropropene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2-Dibromo-3-chloropropane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Dibromochloromethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Dibromomethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2-Dichlorobenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,3-Dichlorobenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,4-Dichlorobenzene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Dichlorodifluoromethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1-Dichloroethane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1-Dichloroethene	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2-Dichloropropane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,3-Dichloropropane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
2,2-Dichloropropane	ND	0.00139		mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Hexachlorobutadiene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Isopropylbenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
4-Isopropyltoluene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Methylene chloride	ND	0.00347	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
n-Butylbenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
2-Hexanone	ND	0.00693	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
n-Propylbenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
sec-Butylbenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Styrene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
4-Methyl-2-pentanone	ND	0.00693	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
tert-Butylbenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1,1,2-Tetrachloroethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1,2,2-Tetrachloroethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Tetrachloroethene (PCE)	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
trans-1,2-DCE	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
trans-1,3-Dichloropropene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2,3-Trichlorobenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2,4-Trichlorobenzene	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1,1-Trichloroethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,1,2-Trichloroethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Trichloroethene (TCE)	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Trichlorofluoromethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
1,2,3-Trichloropropane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Vinyl chloride	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Vinyl acetate	ND	0.00693	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Bromochloromethane	ND	0.00139	mg/Kg-dry	1	14314	7/18/2014 7:00:01 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%REC	1	14314	7/18/2014 7:00:01 PM
Surr: 4-Bromofluorobenzene	96.8	65.3-135	%REC	1	14314	7/18/2014 7:00:01 PM
Surr: Dibromofluoromethane	89.0	70-130	%REC	1	14314	7/18/2014 7:00:01 PM
Surr: Toluene-d8	101	70-130	%REC	1	14314	7/18/2014 7:00:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-003
Client Sample ID: FFOR-CF-0030
Collection Date: 7/18/2014 10:12:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Toluene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Ethylbenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Xylenes, Total	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Methyl tert-butyl ether (MTBE)	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2,4-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,3,5-Trimethylbenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2-Dichloroethane (EDC)	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2-Dibromoethane (EDB)	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Naphthalene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Acetone	0.0103	0.00715		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Bromobenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Bromodichloromethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Bromoform	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Bromomethane	ND	0.00357		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
2-Butanone	ND	0.00715		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Carbon tetrachloride	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Chlorobenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Chloroethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Chloroform	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Chloromethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
2-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Carbon disulfide	ND	0.00715		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
4-Chlorotoluene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
cis-1,2-DCE	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
cis-1,3-Dichloropropene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2-Dibromo-3-chloropropane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Dibromochloromethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Dibromomethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,3-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,4-Dichlorobenzene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Dichlorodifluoromethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1-Dichloroethane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1-Dichloroethene	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,3-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
2,2-Dichloropropane	ND	0.00143		mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407901
Project: Kirtland AFB

Comment: DUE 07/23/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Hexachlorobutadiene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Isopropylbenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
4-Isopropyltoluene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Methylene chloride	ND	0.00357	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
n-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
2-Hexanone	ND	0.00715	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
n-Propylbenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
sec-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Styrene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
4-Methyl-2-pentanone	ND	0.00715	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
tert-Butylbenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1,1,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1,2,2-Tetrachloroethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Tetrachloroethene (PCE)	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
trans-1,2-DCE	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
trans-1,3-Dichloropropene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2,3-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2,4-Trichlorobenzene	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1,1-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,1,2-Trichloroethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Trichloroethene (TCE)	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Trichlorofluoromethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
1,2,3-Trichloropropane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Vinyl chloride	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Vinyl acetate	ND	0.00715	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Bromochloromethane	ND	0.00143	mg/Kg-dry	1	14314	7/18/2014 7:29:42 PM
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%REC	1	14314	7/18/2014 7:29:42 PM
Surr: 4-Bromofluorobenzene	99.9	65.3-135	%REC	1	14314	7/18/2014 7:29:42 PM
Surr: Dibromofluoromethane	89.4	70-130	%REC	1	14314	7/18/2014 7:29:42 PM
Surr: Toluene-d8	98.7	70-130	%REC	1	14314	7/18/2014 7:29:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-004
Client Sample ID: FFOR-CF-0031
Collection Date: 7/18/2014 12:09:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.00248	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Toluene	0.00323	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Ethylbenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Xylenes, Total	0.00244	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Methyl tert-butyl ether (MTBE)	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2,4-Trimethylbenzene	0.00102	0.00163	J	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,3,5-Trimethylbenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2-Dichloroethane (EDC)	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2-Dibromoethane (EDB)	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Naphthalene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Acetone	0.0124	0.00813		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Bromobenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Bromodichloromethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Bromoform	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Bromomethane	ND	0.00407		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
2-Butanone	ND	0.00813		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Carbon tetrachloride	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Chlorobenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Chloroethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Chloroform	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Chloromethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
2-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Carbon disulfide	ND	0.00813		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
4-Chlorotoluene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
cis-1,2-DCE	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
cis-1,3-Dichloropropene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2-Dibromo-3-chloropropane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Dibromochloromethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Dibromomethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,3-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,4-Dichlorobenzene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Dichlorodifluoromethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1-Dichloroethane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1-Dichloroethene	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,3-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
2,2-Dichloropropane	ND	0.00163		mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Hexachlorobutadiene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Isopropylbenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
4-Isopropyltoluene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Methylene chloride	ND	0.00407	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
n-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
2-Hexanone	ND	0.00813	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
n-Propylbenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
sec-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Styrene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
4-Methyl-2-pentanone	ND	0.00813	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
tert-Butylbenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1,1,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1,2,2-Tetrachloroethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Tetrachloroethene (PCE)	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
trans-1,2-DCE	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
trans-1,3-Dichloropropene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2,3-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2,4-Trichlorobenzene	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1,1-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,1,2-Trichloroethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Trichloroethene (TCE)	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Trichlorofluoromethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
1,2,3-Trichloropropane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Vinyl chloride	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Vinyl acetate	ND	0.00813	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Bromochloromethane	ND	0.00163	mg/Kg-dry	1	14314	7/18/2014 7:59:29 PM
Surr: 1,2-Dichloroethane-d4	97.7	70-130	%REC	1	14314	7/18/2014 7:59:29 PM
Surr: 4-Bromofluorobenzene	95.4	65.3-135	%REC	1	14314	7/18/2014 7:59:29 PM
Surr: Dibromofluoromethane	91.0	70-130	%REC	1	14314	7/18/2014 7:59:29 PM
Surr: Toluene-d8	96.1	70-130	%REC	1	14314	7/18/2014 7:59:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

eneric SampleList Printout - Tue Jul 01 15:49:29 2014

ampleList: C:\AgilentWS\070114m.smp

reated: Tue Jul 01 10:23:21 2014
odified: Tue Jul 01 15:49:26 2014

****

Line	Sample Name	Injection Notes
1	bl	below
	Notes All injections contain V-53-0046	
2	b2	none
3	10ppb ccv	below
	Notes V-54-0429	
4	10ppb lcs	below
	Notes V-11-8032	
5	10ppb ccv	below
	Notes V-54-0429	
6	10ppb lcs1	below
	Notes V-11-8032	
7	10ppb ccv3	below
	Notes V-54-0427	
8	10ppb lcs2	below
	Notes V-11-8032	
9	vcb	none
10	b3	none
11	b4	none
12	b5	none run @ 4:09
13		
14		
15	0.4ppb 5035 crv	below
	Notes V-54-0432	
16	1ppb 5035 crv	below
	Notes V-54-0432	
17	2ppb 5035 crv	below
	Notes V-54-0432	
18	3ppb 5035 crv	below
	Notes V-54-0432	
19	5ppb 5035 crv	below
	Notes V-54-0432	
20	10ppb 5035 crv	below
	Notes V-54-0432	
21	20ppb 5035 crv	below
	Notes V-54-0432	
22	50ppb 5035 crv	below
	Notes V-54-0432	
23	100ppb 5035 crv	below
	Notes V-54-0432	
24	b6	none
25	b7	none
26	10ppb 5035 icv	below
	Notes V-54-0427	
27	b8	none
28	mb-14008	none
29	1406d88-001a	below
	Notes x1 low level pb14008	
30	1406d88-002a	below
	Notes x1 low level pb14008	
31	1406d88-003a	below
	Notes x1 low level pb14008	
32	1406d88-004a	below
	Notes x1 low level pb14008	
33	1406d88-005a	below
	Notes x1 low level pb14008	
34	1406d88-006a	below
	Notes x1 low level pb14008	
35	1406d88-007a	below
	Notes x1 low level pb14008	
36	1406d88-008a	below
	Notes x1 low level pb14008	
37	1406d88-001ams	below
	Notes x1 low level V-11-8032 pb14008	
38	1406d88-001amsd	below
	Notes x1 low level V-11-8032 pb14008 @ 4:03	
39		

hand calc

Loaded By: cg 7-1-14
1st Review By: cg 7-2-14
QA'd By: ✓ NB 7/3/14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\070114m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 7-1-14

Calibration Name: 0701L14MD 5035-8260 low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☐	☐	☐	
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☑	☐	UQL= 100ppb
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	UQL=10ppb
Isopropyl ether	☐	☐	☑	☐	UQL= 50ppb
tert-Butyl alcohol	☐	☐	☑	☐	UQL= 500ppb
trans-1,2-DCE	☐	☐	☐	☑	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	UQL= 100ppb
1,1-Dichloroethane	☐	☐	☑	☐	PQL= 2ppb UQL= 50ppb
Methylene Chloride	☐	☐	☐	☑	
Vinyl acetate	☐	☐	☐	☑	
2,2-Dichloropropane	☐	☑	☑	☐	rerun on different instrument
2-Butanone	☐	☐	☐	☑	
1,1,1-Trichloroethane	☐	☐	☐	☑	
1,1-Dichloropropene	☐	☐	☐	☑	
tert-Amyl methyl ether (TAME)	☐	☐	☑	☐	UQL= 50ppb
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☑	☐	
2-Choroethyl vinyl ether	☐	☐	☑	☐	UQL= 100ppb
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☑	☐	UQL= 50ppb
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☑	
1,1,2-Trichloroethane	☐	☐	☑	☐	UQL = 50 ppb
Chlorobenzene	☐	☐	☐	☑	
1,2-Dibromoethane (EDB)	☐	☐	☑	☐	UQL = 50 ppb
o-Xylene	☐	☐	☐	☑	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☑	
Dibromochloromethane	☐	☐	☐	☑	
Isopropylbenzene	☐	☐	☐	☑	
Styrene	☐	☐	☐	☑	
n-Propylbenzene	☐	☐	☐	☑	
1,3,5-Trimethylbenzene	☐	☐	☐	☑	
tert-Butylbenzene	☐	☐	☐	☑	
2-Chlorotoluene	☐	☐	☐	☑	
4-Bromofluorobenzene	N/A	N/A	☐	☑	
Bromobenzene	☐	☐	☑	☐	UQL = 50 ppb
4-Chlorotoluene	☐	☐	☐	☑	
sec-Butylbenzene	☐	☐	☐	☑	
1,2,4-Trimethylbenzene	☐	☐	☐	☑	
4-Isopropyltoluene	☐	☐	☐	☑	
Bromoform	☐	☐	☐	☑	
1,2,3-Trichloropropane	☐	☐	☐	☑	
n-Butylbenzene	☐	☐	☐	☑	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☑	
1,3-Dichlorobenzene	☐	☐	☐	☑	
1,4-Dichlorobenzene	☐	☐	☐	☑	
1,2-Dichlorobenzene	☐	☐	☐	☑	
Hexachlorobutadiene	☐	☐	☐	☑	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☑	
1,2,4-Trichlorobenzene	☐	☐	☐	☑	
Naphthalene	☐	☐	☐	☑	
1,2,3-Trichlorobenzene	☐	☐	☐	☑	
2-Methylnaphthalene	☐	☐	☐	☑	
1-Methylnaphthalene	☐	☐	☐	☑	

Analyst: [signature] 7.2.14

QA: [signature] NB 7/3/14

Additional Comments:

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): .ta\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 7/1/2014 Time Analyzed: 19:08

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	35802	7.14	49957	13.45	18680	17.04						
UPPER LIMIT	71604	7.64	99914	13.95	37360	17.54						
LOWER LIMIT	17901	6.64	24979	12.95	9340	16.54						
EPA SAMPLE NO												
b3 7-1-201	35608	7.14	49136	13.46	17710	17.04						
b4 7-1-201	34798	7.14	45637	13.46	17034	17.04						
b5 7-1-201	37124	7.14	49316	13.46	17789	17.04						
0.4ppb 503	36440	7.14	48679	13.46	17704	17.04						
1ppb 5035	34222	7.14	43862	13.46	16477	17.04						
2ppb 5035	34472	7.14	46863	13.46	17715	17.04						
3ppb 5035	35306	7.14	47378	13.46	18075	17.04						
5ppb 5035	34967	7.14	50204	13.45	18464	17.04						
20ppb 5035	35982	7.14	50834	13.45	18528	17.03						
50ppb 5035	41869	7.14	53034 D	13.45 D	21049	17.04						
100ppb 503	42972	7.14	60676	13.45	22503	17.04						
b6 7-1-201	37347	7.14	52245	13.46	20293	17.04						
b7 7-1-201	35153	7.14	48100	13.45	18006	17.04						
10ppb 5035	40628	7.14	56008	13.46	20503	17.04						
b8 7-1-201	33650	7.14	46905	13.45	17588	17.04						
mb-14008 7	38084	7.14	51528	13.45	18232	17.04						

SDV

SG 7-2-14
NB 7/3/14

Analyst: cadg

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
1406d88-00	32125	7.14	42665	13.45	15586	17.03						
1406d88-00	20326	7.14	28639	13.45	10564	17.03						
1406d88-00	35021	7.14	49381	13.45	18585	17.03						
1406d88-00	30024	7.14	39658	13.45	14545	17.03						
1406d88-00	41935	7.14	56978	13.45	21021	17.03						
1406d88-00	21055	7.14	27361	13.45	9420	17.03						
1406d88-00	25218	7.14	34370	13.45	13376	17.03						
1406d88-00	21662	7.14	28445	13.45	10725	17.03						
1406d88-00	37773	7.14	57446	13.45	22183	17.03						
1406d88-00	41814	7.14	58606	13.45	21401	17.04						
b9 7-2-201	47204	7.14	60616	13.45	23784	17.03						

cg 7-2-14

JB 7/3/14

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b5 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: Mercury Injection Time: 16:09

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	24.8	
75	30-60% of m/z 95	50.9	
95	base peak	100.0	
96	5-9% of m/z 95	6.8	
173	<2% of m/z 174	0.2 (0.3)	174
174	>50% of m/z 95	63.3	
175	5-9% of m/z 174	4.5 (7.2)	174
176	>95% but <101% of m/z 174	63.6 (100.5)	174
177	5-9% of m/z 176	4.5 (7.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b5 7-1-201	b5	h:\mercury_gcms\data\2014\0714m\07011 4m crv\b5 7-1-2014.SMS	7/1/2014 16:09
4 0.4ppb 503	0.4ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\0.4ppb 5035 crv 7-1-2014.SMS	7/1/2014 16:39
5 1ppb 5035	1ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\1ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:09
6 2ppb 5035	2ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\2ppb 5035 crv 7-1-2014.SMS	7/1/2014 17:39
7 3ppb 5035	3ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\3ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:08
8 5ppb 5035	5ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\5ppb 5035 crv 7-1-2014.SMS	7/1/2014 18:38
9 10ppb 5035	10ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:08
10 20ppb 5035	20ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\20ppb 5035 crv 7-1-2014.SMS	7/1/2014 19:38
11 50ppb 5035	50ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\50ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:08
12 100ppb 503	100ppb 5035 crv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\100ppb 5035 crv 7-1-2014.SMS	7/1/2014 20:37
13 10ppb 5035	10ppb 5035 icv	h:\mercury_gcms\data\2014\0714m\07011 4m crv\10ppb 5035 icv 7-1-2014.SMS	7/1/2014 22:07

7-2-14

WB 7/3/14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 7/1/2014 7/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:37 20:37

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 7/1/2014 20:37	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC	RRF9
Dichlorodifluoromethane	2.650	3.043	2.913	2.692	2.960	2.603	2.637	2.259	0.9988	2.680	9.8	PASS	PASS	2.360
Chloromethane	9.899	8.842	8.562	9.925	12.743	12.476	12.583	11.369	0.9971	10.762	14.9	PASS	PASS	10.463
Vinyl chloride	7.828	8.912	10.357	11.833	16.335	15.002	14.517	12.296	0.9982	12.235	23.2	PASS	PASS	13.032
Chloroethane	1.076	1.130	1.208	1.486	1.884	2.379	2.354	2.411	0.9996	1.828	33.3	PASS	PASS	2.525

Analyst: cadg

7/3/14

7.2.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	5.530	2.834	2.077	2.340	2.468	3.063	3.591	4.888	0.9999	3.710	43.0	PASS	PASS
6.595													
Trichlorofluoromethane	2.273	2.528	2.647	2.683	3.035	2.852	2.802	2.882	0.9990	2.754	9.2	PASS	PASS
3.079													
1,1-Dichloroethene	3.782	5.113	6.083	6.557	7.405	7.164	7.155	7.230	0.9997	6.446	19.6	PASS	PASS
7.528													
Acetone	5.263	3.719	2.696	2.708	3.078	3.101	3.688	4.388	0.9998	3.747	25.9	PASS	PASS
5.085													
Carbon disulfide	5.743	6.318	6.291	6.191	6.421	6.119	5.336	5.167	0.9997	5.857	8.9	PASS	PASS
5.131													
Iodomethane	9.949	6.154	6.026	6.416	7.243	10.069	10.665	13.997	0.9997	8.815	32.2	PASS	PASS
Methyl tert-butyl ether (MTBE)	6.917	7.809	7.614	7.799	8.160	6.797	5.197		0.9991	7.185	14.0	PASS	PASS
Isopropyl ether	21.282	29.554	33.754	35.993	38.103	37.037	33.654	32.199	0.9987	32.697	16.4	PASS	PASS
tert-Butyl alcohol	0.851	0.785	0.784	0.863	0.737	0.657			0.9903	0.779	9.8	PASS	PASS
trans-1,2-DCE	7.392	10.164	12.336	13.235	14.602	14.683	13.783	14.433	0.9997	12.839	19.8	PASS	PASS
14.926													
tert-Butyl ethyl ether	80.062	111.746	122.673	122.219	124.479	119.775	102.941	91.625	0.9951	109.440	15.1	PASS	PASS
Methylene Chloride	9.541	9.295	9.309	9.315	9.326	9.667	8.661	8.561	0.9984	9.066	6.3	PASS	PASS
7.916													
1,1-Dichloroethane			0.510	0.577	0.873	2.056	3.394	5.423	0.9996	2.139	91.3	PASS	PASS

Analyst: cadg

7/3/14

7.2.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate	9.614	10.679	11.502	13.604	17.457	19.550	19.387	18.143	0.9990	15.268	25.7	PASS	PASS
17.475													
2,2-Dichloropropane	3.119	2.328	2.677	2.154	2.033	1.299			0.9950	2.268	27.2	PASS	PASS
2-Butanone	5.459	5.602	5.052	5.584	6.024	7.587	9.087	9.013	0.9988	7.015	26.3	PASS	PASS
9.729													
1,1,1-Trichloroethane	4.515	4.375	4.723	4.926	4.959	4.812	4.488	4.282	0.9966	4.661	5.4	PASS	PASS
4.872													
1,1-Dichloropropene	7.845	7.588	7.829	7.781	7.718	7.634	7.625	7.403	0.9996	7.683	1.8	PASS	PASS
7.724													
tert-Amyl methyl ether	32.005	33.403	34.734	34.734	34.357	34.249	32.256	28.329	0.9964	33.008	6.6	PASS	PASS
Carbon Tetrachloride	1.520	1.666	1.949	1.884	2.063	1.987	1.937	1.799	0.9990	1.858	9.2	PASS	PASS
1.920													
cis-1,2-DCE	2.254	2.665	2.761	2.792	2.893	2.929	2.894	2.886	0.9997	2.786	8.0	PASS	PASS
3.003													
Benzene	9.429	10.172	9.981	10.092	10.400	10.282	9.959	9.706	0.9995	10.025	3.0	PASS	PASS
10.202													
Chloroform	3.362	3.393	4.264	4.378	4.778	4.946	5.138	5.222	0.9992	4.560	17.2	PASS	PASS
5.564													
Bromochloromethane	4.274	3.513	4.459	4.181	4.354	4.175	3.941	3.814	0.9996	4.074	7.3	PASS	PASS
3.955													
Trichloroethene (TCE)	17.334	16.146	16.465	15.987	17.237	16.125	15.889	15.339	0.9994	16.302	3.9	PASS	PASS
16.196													
Dibromofluoromethane	2.504	2.504	2.794	2.888	3.196	3.081	3.408	3.342	0.8940	3.001	11.6	PASS	PASS
3.294													

Analyst: cadg

JB 7/3/14 cg 7.2.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,2-Dichloroethane-d4	10.120	10.272	11.023	11.294	11.589	10.993	11.571	11.126	0.9812	11.011	4.6	PASS	PASS
11.113													
1,2-Dichloroethane (EDC)	32.522	37.065	48.575	59.852	65.669	66.193	67.103	63.797	0.9996	56.387	24.1	PASS	PASS
66.710													
1,2-Dichloropropane	10.544	12.963	16.234	18.592	20.441	19.833	19.466	18.168	0.9997	17.205	19.6	PASS	PASS
18.607													
4-Methyl-2-pentanone	5.468	6.516	6.902	7.139	6.720	6.613	6.573	6.895	0.9988	6.580	7.2	PASS	PASS
6.397													
Toluene-d8	1.869	1.836	1.896	1.974	1.897	1.848	1.876	1.941	0.9897	1.876	3.4	PASS	PASS
1.750													
Toluene	12.074	11.527	11.168	11.794	11.505	10.788	10.565	11.082	0.9993	11.221	4.9	PASS	PASS
10.492													
2-Chloroethyl vinyl ether	4.210	4.726	6.320	7.409	7.940	7.602	7.070	5.379	0.9999	6.332	22.3	PASS	PASS
cis-1,3-dichloropropene	15.208	14.865	16.368	17.167	17.283	16.648	16.028	17.834	0.9996	16.539	6.2	PASS	PASS
17.450													
Bromodichloromethane	2.520	2.756	2.977	3.144	3.229	3.133	2.953	3.143	0.9981	2.970	7.6	PASS	PASS
2.870													
2-Hexanone	11.725	17.377	18.526	20.154	19.368	18.240	18.545	18.829	0.9998	17.894	13.6	PASS	PASS
18.281													
Tetrachloroethene (PCE)	3.261	3.286	3.135	3.205	3.306	3.028	2.882	3.141	0.9997	3.145	4.4	PASS	PASS
3.063													
Dibromomethane	5.789	5.894	6.068	6.338	6.300	5.782	5.540	5.317	0.9995	5.879	6.0	PASS	PASS
1,3-Dichloropropane	5.130	5.517	5.826	6.303	6.087	6.124	5.717	6.053	0.9990	5.824	6.2	PASS	PASS
5.661													

Analyst: cadg

cg 7.2.14

WB 7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	2.401	3.071	3.157	3.096	3.232	3.251	3.027	3.350	0.9992	3.084	8.9	PASS	PASS
3.174													
Ethylbenzene	12.587	12.638	12.419	12.688	12.431	12.667	11.886	12.465	0.9998	12.491	2.0	PASS	PASS
12.638													
mp-Xylenes	11.351	11.312	11.042	11.217	10.865	11.038	10.422	10.810	0.9999	10.979	2.7	PASS	PASS
10.753													
1,1,2-Trichloroethane	6.932	7.662	7.553	7.431	7.815	7.647	6.756	6.770	0.9993	7.321	5.9	PASS	PASS
Chlorobenzene	5.668	5.704	5.536	5.487	5.719	5.729	5.160	5.615	0.9996	5.593	3.3	PASS	PASS
5.717													
1,2-Dibromoethane (EDB)	1.902	1.851	1.928	1.934	2.021	1.907	1.734	1.566	0.9972	1.855	7.7	PASS	PASS
o-Xylene	11.322	11.552	11.420	11.496	11.392	11.731	10.666	11.073	0.9997	11.331	2.7	PASS	PASS
11.329													
Dibromochloromethane	1.585	1.621	1.659	1.691	1.647	1.720	1.567	1.563	0.9997	1.619	4.1	PASS	PASS
1.516													
1,1,1,2-Tetrachloroethane	2.568	2.643	2.733	2.780	2.689	2.700	2.494	2.512	0.9998	2.619	4.4	PASS	PASS
2.451													
Isopropylbenzene	11.312	11.491	11.136	11.088	11.112	11.037	10.409	11.113	0.9996	11.127	2.8	PASS	PASS
11.447													
Styrene	5.156	5.479	5.501	5.548	5.361	5.588	5.163	5.825	0.9992	5.517	5.1	PASS	PASS
6.029													
n-Propylbenzene	40.688	39.222	37.934	37.169	38.296	37.932	37.978	36.500	0.9984	38.408	3.5	PASS	PASS
39.949													
1,3,5-Trimethylbenzene	30.514	28.942	28.010	26.950	27.505	27.890	27.243	26.485	0.9977	28.112	4.6	PASS	PASS
29.467													

Analyst: cadg

7.2.14

7/3/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
tert-Butylbenzene	32.820	33.756	32.074	31.650	32.313	31.221	31.166	30.632	0.9989	32.068	3.1	PASS	PASS
32.979													
2-Chlorotoluene	10.218	10.341	9.373	9.385	9.736	9.698	8.895	9.167	0.9995	9.598	4.9	PASS	PASS
9.568													
4-Bromofluorobenzene	2.493	2.507	2.478	2.430	2.564	2.494	2.621	2.822	0.9787	2.568	4.9	PASS	PASS
2.708													
Bromobenzene	50.466	49.545	46.982	43.961	44.607	44.479	40.567	38.660	0.9991	44.908	9.1	PASS	PASS
4-Chlorotoluene	68.220	67.718	64.643	64.415	62.511	66.824	66.971	76.709	1.0000	70.580	15.2	PASS	PASS
97.208													
sec-Butylbenzene	45.619	42.600	39.677	38.159	38.123	39.574	35.912	39.320	0.9979	40.202	7.4	PASS	PASS
42.830													
1,2,4-Trimethylbenzene	93.130	93.803	89.576	86.971	87.634	88.282	85.339	88.728	0.9990	89.770	3.6	PASS	PASS
94.464													
4-Isopropyltoluene	32.692	32.667	30.913	29.412	31.268	30.020	28.723	29.180	0.9986	30.714	4.8	PASS	PASS
31.555													
Bromoform	10.925	11.341	11.579	11.609	11.922	11.443	11.224	12.292	0.9993	11.680	4.9	PASS	PASS
12.782													
1,2,3-Trichloropropane	13.965	15.425	14.206	14.728	13.936	13.823	13.428	14.211	0.9999	14.196	4.1	PASS	PASS
14.042													
n-Butylbenzene	54.768	57.590	52.370	49.245	50.841	49.240	47.315	48.387	0.9999	50.947	6.6	PASS	PASS
48.767													
1,1,2,2-Tetrachloroethane	45.724	46.759	47.019	48.421	47.391	46.901	46.057	46.996	0.9997	47.082	2.0	PASS	PASS
48.474													
1,3-Dichlorobenzene	13.681	13.118	12.990	13.135	13.022	12.747	11.803	12.653	0.9996	12.903	3.9	PASS	PASS
12.975													

Analyst: cadg

cg 7.2.14

✓ WB 7/3/14

Compound RRF9	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1,4-Dichlorobenzene 12.232	13.113	12.425	11.471	11.610	12.379	12.079	11.578	11.938	0.9998	12.092	4.3	PASS	PASS
1,2-Dichlorobenzene 12.334	13.309	13.233	12.258	12.492	12.545	12.186	11.610	12.360	0.9999	12.481	4.2	PASS	PASS
Hexachlorobutadiene 28.425	31.750	30.181	27.493	27.553	29.591	26.930	27.489	27.684	0.9998	28.566	5.6	PASS	PASS
1,2-Dibromo-3-chloropropane 13.716	12.040	13.736	12.377	13.373	12.857	12.021	12.422	12.652	0.9985	12.799	5.2	PASS	PASS
1,2,4-Trichlorobenzene 37.222	38.851	40.230	37.023	36.775	37.932	36.006	36.196	36.904	0.9999	37.460	3.6	PASS	PASS
Naphthalene 19.670	14.930	16.127	16.707	16.292	16.630	17.015	17.617	18.276	0.9988	17.029	8.0	PASS	PASS
1,2,3-Trichlorobenzene 29.944	34.907	36.343	33.955	32.310	34.452	33.711	32.595	30.281	0.9997	33.167	6.3	PASS	PASS
2-Methylnaphthalene 38.020	22.964	24.456	26.278	27.719	29.675	34.003	34.656	36.934	0.9997	30.523	18.2	PASS	PASS
1-Methylnaphthalene 50.416	35.968	36.282	39.915	41.846	44.355	47.656	48.987	49.103	0.9999	43.836	12.8	PASS	PASS
										Average %RSD	11.2		

cg 7-2-14

JW 7/3/14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0714m\070114m crv\10ppb 5035 **Acquisition Date:** 7/1/2014 22:07

Comment: V-54-0427

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Cal. Sample Dates: First: 7/1/2014 20:37 **Last:** 7/1/2014 20:37

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	11.63	ppb	10.00	116 %	70 - 130	PASS
2)	Chloromethane	12.21	ppb	10.00	122 %	70 - 130	PASS
3)	Vinyl chloride	10.73	ppb	10.00	107 %	80 - 140	PASS
4)	Chloroethane	9.86	ppb	10.00	99 %	70 - 130	PASS
5)	Bromomethane	10.81	ppb	10.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	9.19	ppb	10.00	92 %	70 - 130	PASS
7)	1,1-Dichloroethene	9.38	ppb	10.00	94 %	80 - 140	PASS
8)	Acetone	16.73	ppb	20.00	84 %	60 - 140	PASS
9)	Carbon disulfide	22.05	ppb	20.00	110 %	60 - 140	PASS
10)	Iodomethane	17.16	ppb	20.00	86 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	16.78	ppb	20.00	84 %	70 - 130	PASS
12)	Isopropyl ether	21.39	ppb	20.00	107 %	60 - 140	PASS
13)	tert-Butyl alcohol	153.87	ppb	200.00	77 %	60 - 140	PASS
14)	trans-1,2-DCE	9.45	ppb	10.00	95 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	23.01	ppb	20.00	115 %	60 - 140	PASS
16)	Methylene Chloride	10.41	ppb	10.00	104 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.75	ppb	10.00	87 %	70 - 130	PASS
18)	Vinyl acetate	23.65	ppb	20.00	118 %	60 - 140	PASS
19)	2,2-Dichloropropane	5.98	ppb	10.00	60 %	70 - 130	FAIL
20)	2-Butanone	17.17	ppb	20.00	86 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	10.00	ppb	10.00	100 %	70 - 130	PASS
23)	1,1-Dichloropropene	9.35	ppb	10.00	93 %	70 - 130	PASS
24)	tert-Amyl methyl ether	22.81	ppb	20.00	114 %	60 - 140	PASS
25)	Carbon Tetrachloride	9.40	ppb	10.00	94 %	70 - 130	PASS
26)	cis-1,2-DCE	9.75	ppb	10.00	98 %	70 - 130	PASS
27)	Benzene	10.08	ppb	10.00	101 %	70 - 130	PASS
28)	Chloroform	9.29	ppb	10.00	93 %	80 - 120	PASS
29)	Bromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.85	ppb	10.00	99 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	10.18	ppb	10.00	102 %	70 - 130	PASS
34)	1,2-Dichloropropane	10.75	ppb	10.00	108 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	19.76	ppb	20.00	99 %	60 - 140	PASS
37)	Toluene	10.09	ppb	10.00	101 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	18.52	ppb	20.00	93 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	8.98	ppb	10.00	90 %	70 - 130	PASS
40)	Bromodichloromethane	10.66	ppb	10.00	107 %	70 - 130	PASS
41)	2-Hexanone	19.49	ppb	20.00	97 %	60 - 140	PASS

rerun on a different instrument cg 7-2-14

Analyst: cadg

JB 7/3/14

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	9.90	ppb	10.00	99 %	70 - 130	PASS
43)	Dibromomethane	10.61	ppb	10.00	106 %	70 - 130	PASS
44)	1,3-Dichloropropane	10.21	ppb	10.00	102 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	9.09	ppb	10.00	91 %	70 - 130	PASS
46)	Ethylbenzene	9.76	ppb	10.00	98 %	80 - 120	PASS
47)	mp-Xylenes	19.81	ppb	20.00	99 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.67	ppb	10.00	107 %	70 - 130	PASS
50)	Chlorobenzene	9.68	ppb	10.00	97 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	10.41	ppb	10.00	104 %	70 - 130	PASS
52)	o-Xylene	9.76	ppb	10.00	98 %	70 - 130	PASS
53)	Dibromochloromethane	10.30	ppb	10.00	103 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	10.15	ppb	10.00	102 %	70 - 130	PASS
55)	Isopropylbenzene	9.76	ppb	10.00	98 %	70 - 130	PASS
56)	Styrene	9.06	ppb	10.00	91 %	70 - 130	PASS
57)	n-Propylbenzene	9.74	ppb	10.00	97 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	9.56	ppb	10.00	96 %	70 - 130	PASS
59)	tert-Butylbenzene	9.64	ppb	10.00	96 %	70 - 130	PASS
60)	2-Chlorotoluene	9.86	ppb	10.00	99 %	70 - 130	PASS
62)	Bromobenzene	11.15	ppb	10.00	112 %	70 - 130	PASS
63)	4-Chlorotoluene	10.18	ppb	10.00	102 %	70 - 130	PASS
64)	sec-Butylbenzene	9.70	ppb	10.00	97 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	9.51	ppb	10.00	95 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.53	ppb	10.00	95 %	70 - 130	PASS
67)	Bromoform	9.75	ppb	10.00	97 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.86	ppb	10.00	99 %	70 - 130	PASS
69)	n-Butylbenzene	10.04	ppb	10.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.79	ppb	10.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.53	ppb	10.00	95 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	9.77	ppb	10.00	98 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	9.94	ppb	10.00	99 %	70 - 130	PASS
75)	Hexachlorobutadiene	9.36	ppb	10.00	94 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.42	ppb	10.00	94 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	9.43	ppb	10.00	94 %	70 - 130	PASS
78)	Naphthalene	8.79	ppb	10.00	88 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	10.14	ppb	10.00	101 %	70 - 130	PASS
80)	2-Methylnaphthalene	8.22	ppb	10.00	82 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.66	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

cdg 7.2.14

✓ WB 7/3/14

Analyst: cadg

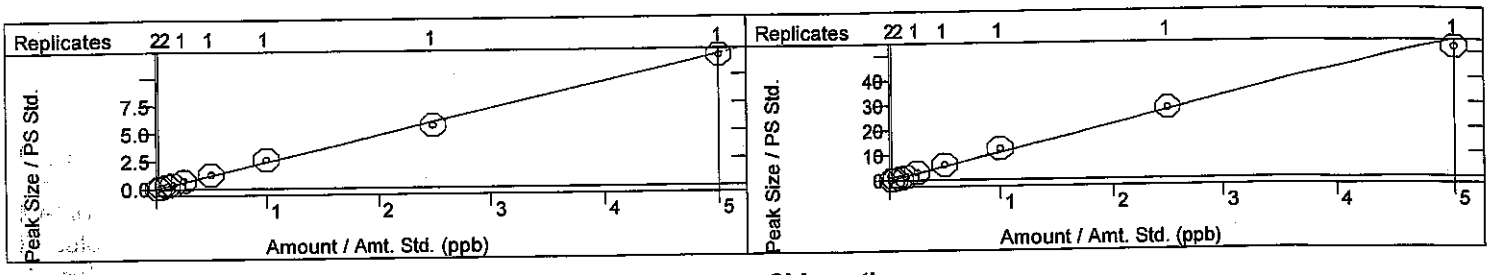
Calibration Curves Report

cg7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

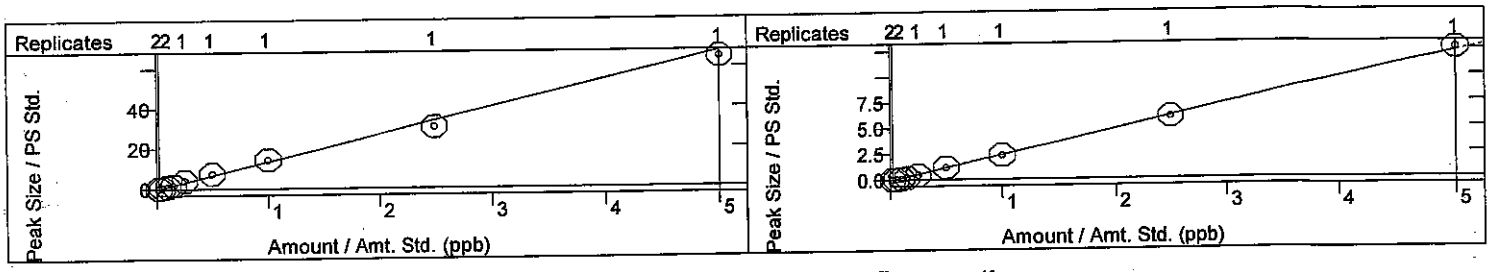
Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.810%, Coeff. Det.(r2): 0.998845
y = +2.3792x +0.0287

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.91%, Coeff. Det.(r2): 0.997109
y = +11.0759x -0.0299



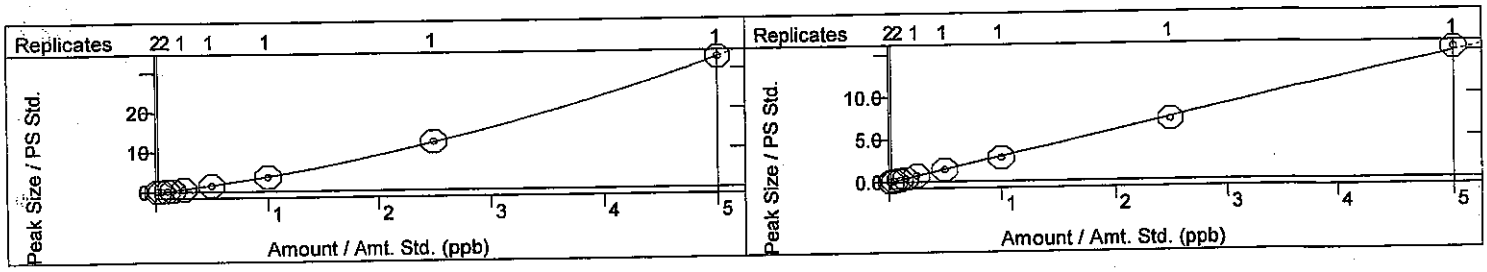
Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 23.20%, Coeff. Det.(r2): 0.998154
y = +13.6650x -0.1366

Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 33.30%, Coeff. Det.(r2): 0.999587
y = +2.4706x -0.0613



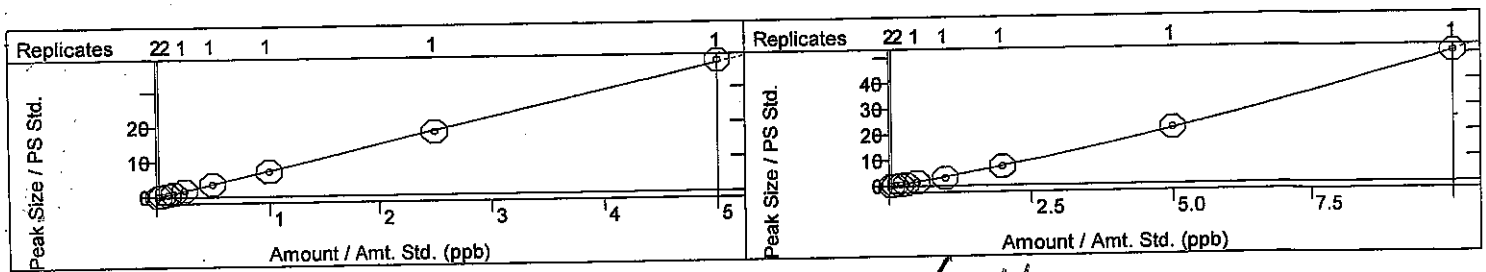
Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 42.95%, Coeff. Det.(r2): 0.999906
y = +0.6980x2 +3.1328x -0.1096

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.192%, Coeff. Det.(r2): 0.999006
y = +2.9920x -0.0228



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.58%, Coeff. Det.(r2): 0.999671
y = +7.4264x -0.0936

Acetone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 25.93%, Coeff. Det.(r2): 0.999774
y = +0.1488x2 +3.6265x -0.2303



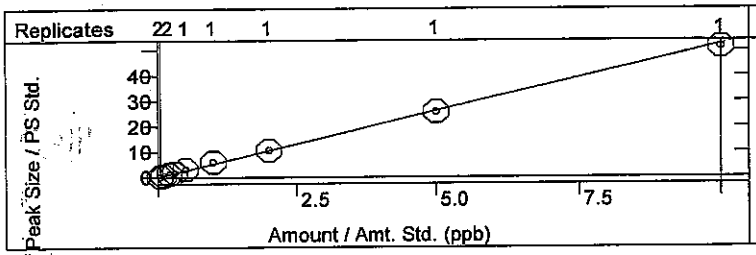
JNB 7/3/14

Calibration Curves Report

cg 7.2.14

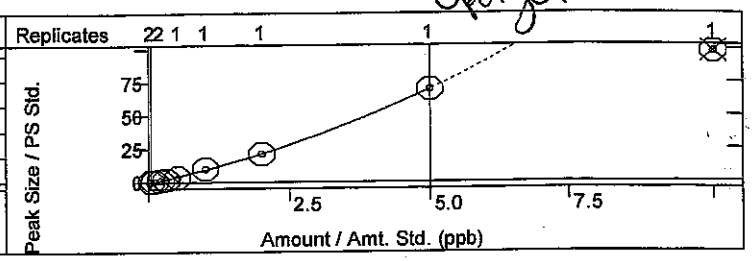
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.923%, Coeff. Det.(r2): 0.999693
y = +5.2268x +0.1204



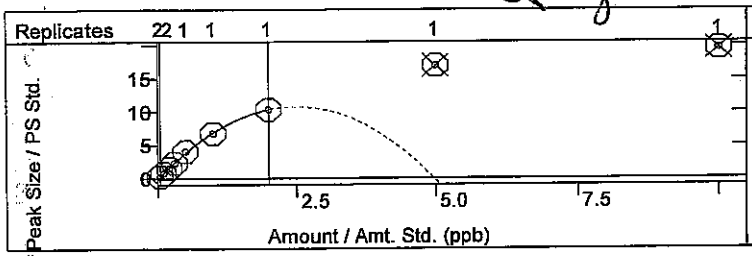
Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 32.15%, Coeff. Det.(r2): 0.999696
y = +1.0511x2 +8.8298x -0.4374

cpd fit



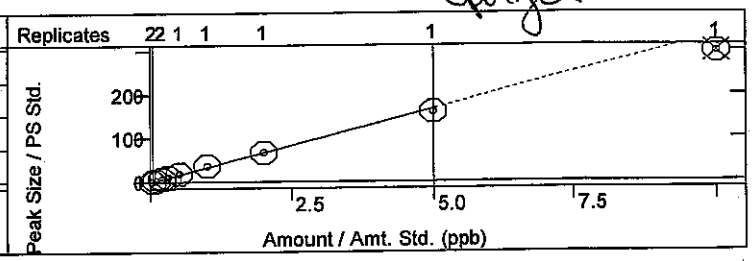
Methyl tert-butyl ether (MTBE)
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.00%, Coeff. Det.(r2): 0.999119
y = -1.7584x2 +8.7436x -0.0752

cpd fit



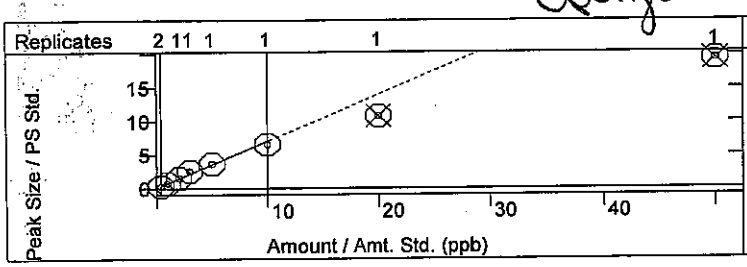
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.40%, Coeff. Det.(r2): 0.998750
y = +33.5836x -0.1508

cpd fit

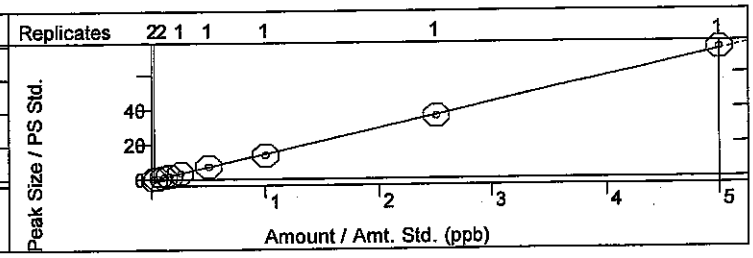


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.788%, Coeff. Det.(r2): 0.990256
y = +0.6955x +0.1088

cpd fit

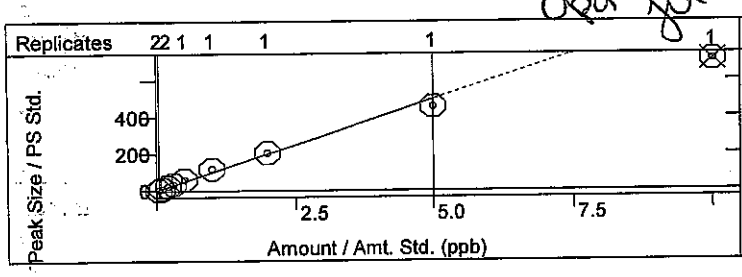


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.77%, Coeff. Det.(r2): 0.999660
y = +14.7326x -0.1808

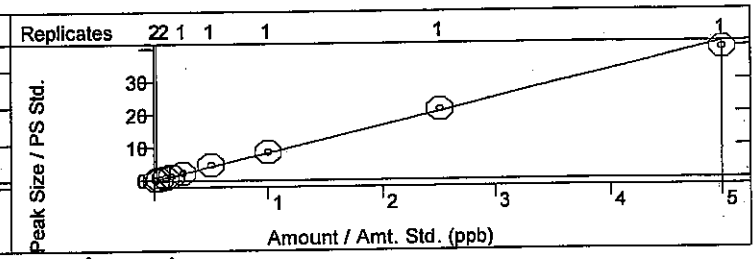


tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.05%, Coeff. Det.(r2): 0.995126
y = +99.3256x +1.7204

cpd fit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.252%, Coeff. Det.(r2): 0.998417
y = +8.2659x +0.0763



JB 7/3/14

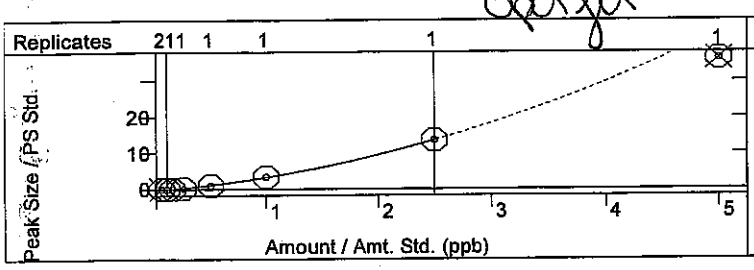
cg 7.2.14

Calibration Curves Report

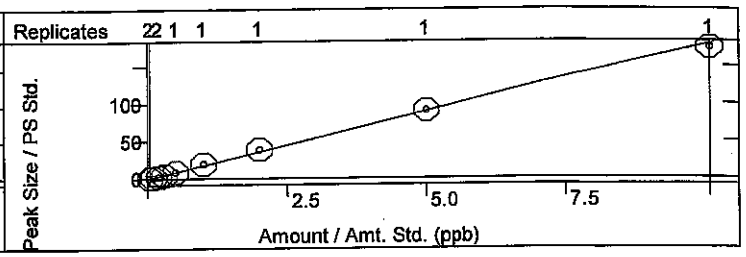
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,1-Dichloroethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 91.29%, Coeff. Det.(r2): 0.999571
y = +1.2977x2 +2.3108x -0.3199

cpd fit

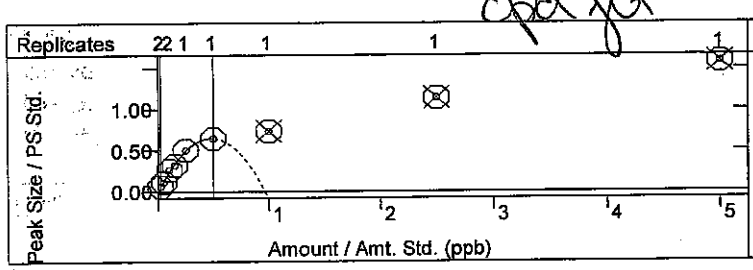


Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 25.70%, Coeff. Det.(r2): 0.999009
y = +18.0300x -0.5274

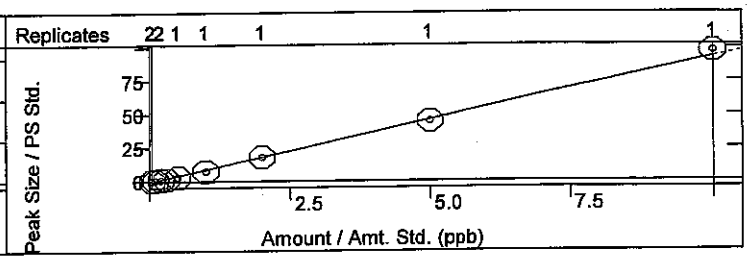


2,2-Dichloropropane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.19%, Coeff. Det.(r2): 0.994996
y = -2.7875x2 +2.6865x +0.0038

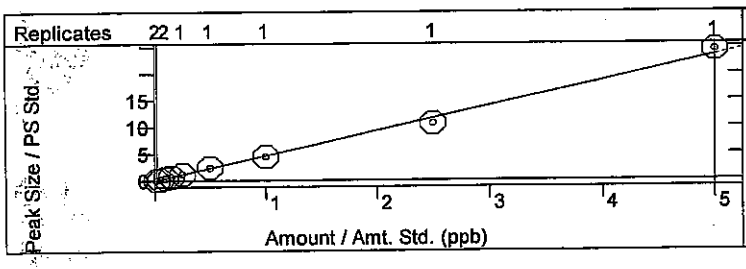
cpd fit



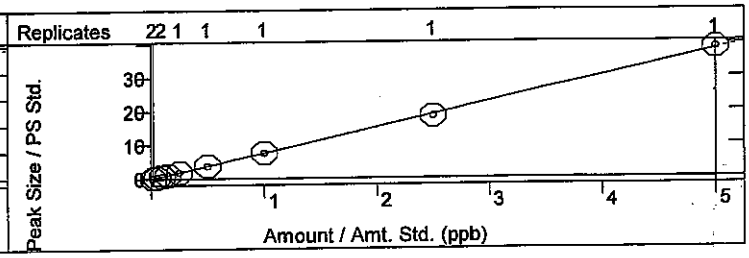
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 26.32%, Coeff. Det.(r2): 0.998812
y = +9.3294x -0.4419



1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.402%, Coeff. Det.(r2): 0.996627
y = +4.6740x -0.0012

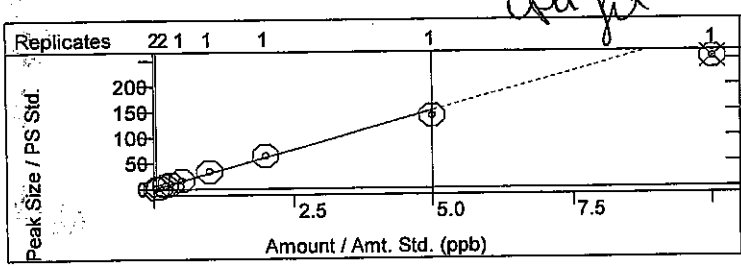


1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.802%, Coeff. Det.(r2): 0.999620
y = +7.6209x +0.0059

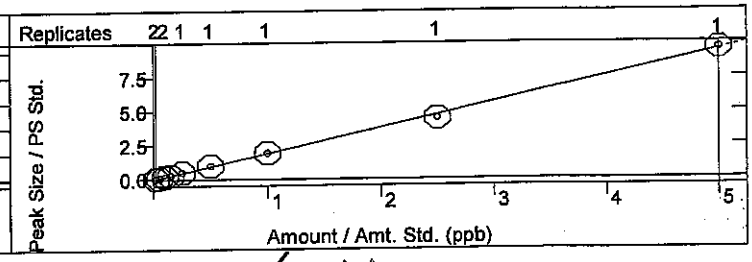


tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.571%, Coeff. Det.(r2): 0.996388
y = +30.1644x +0.4837

cpd fit



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.165%, Coeff. Det.(r2): 0.999016
y = +1.8988x -0.0039



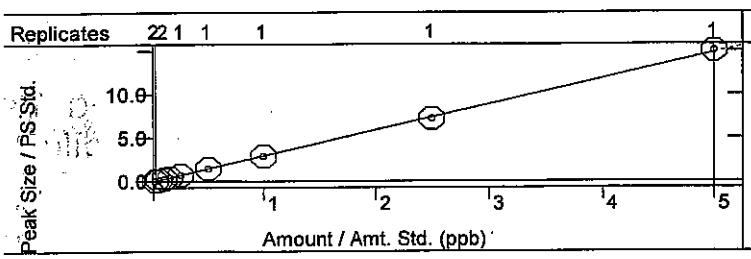
NB 7/3/14

Calibration Curves Report

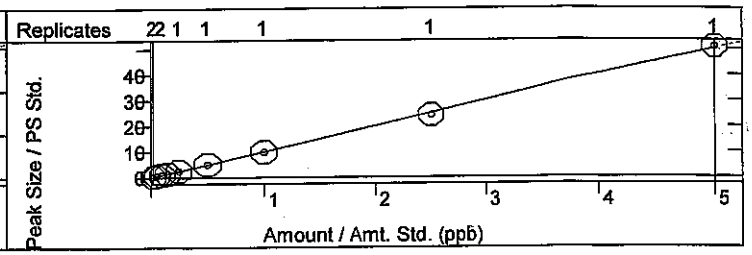
cg 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

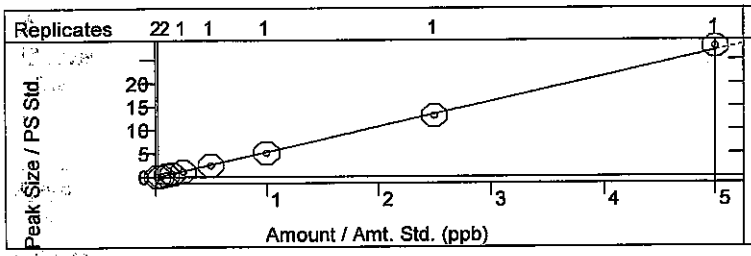
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.013%, Coeff. Det.(r2): 0.999680
y = +2.9610x -0.0167



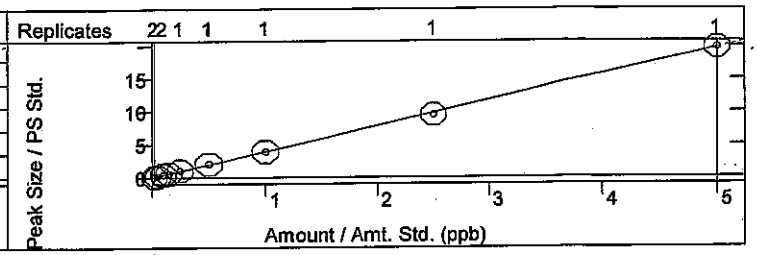
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.006%, Coeff. Det.(r2): 0.999467
y = +10.0529x -0.0027



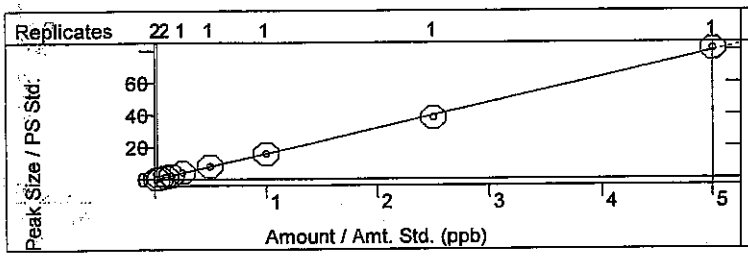
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.15%, Coeff. Det.(r2): 0.999217
y = +5.4050x -0.0806



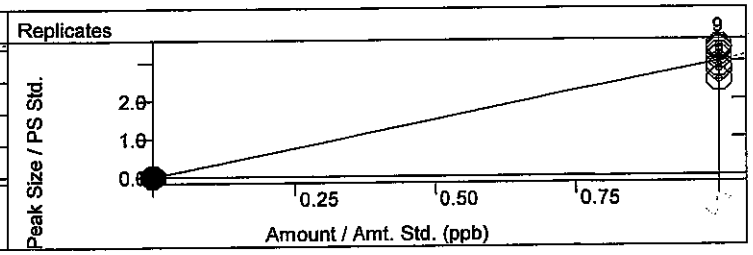
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.276%, Coeff. Det.(r2): 0.999632
y = +3.9331x +0.0134



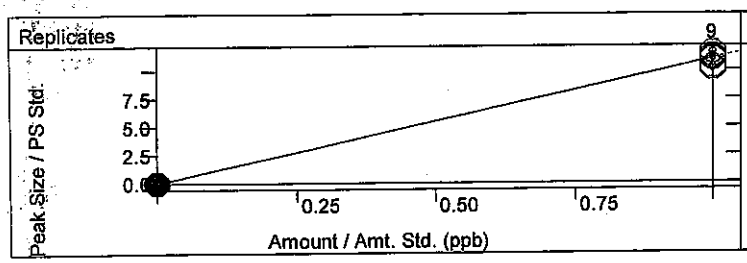
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.898%, Coeff. Det.(r2): 0.999353
y = +15.9319x +0.0353



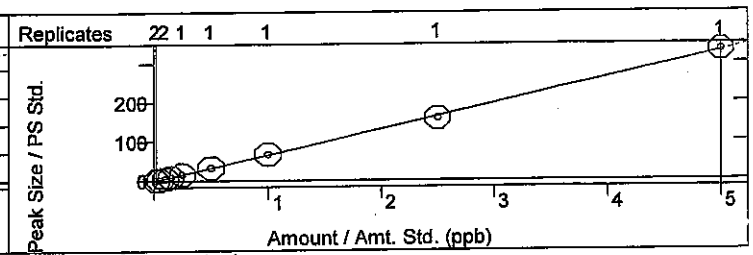
Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 11.55%, Coeff. Det.(r2): 0.893986
y = +3.0013x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.981195
y = +11.0112x



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.08%, Coeff. Det.(r2): 0.999576
y = +66.3031x -0.9467



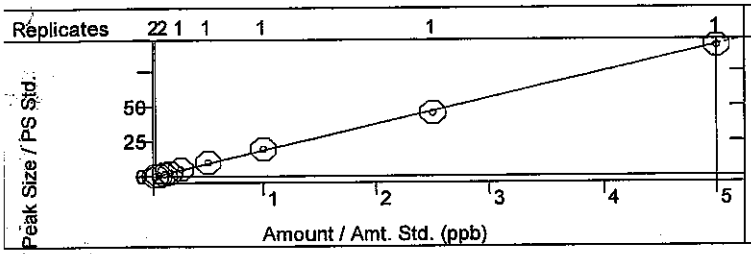
JNB 7/3/14

Calibration Curves Report

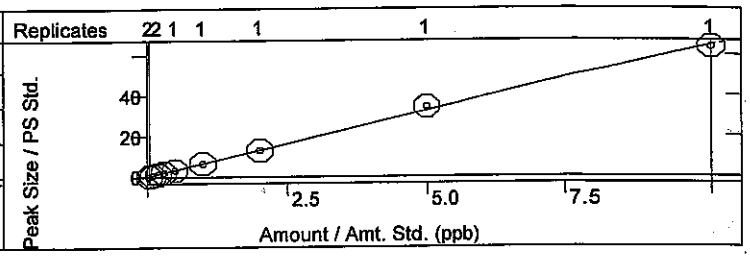
07.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

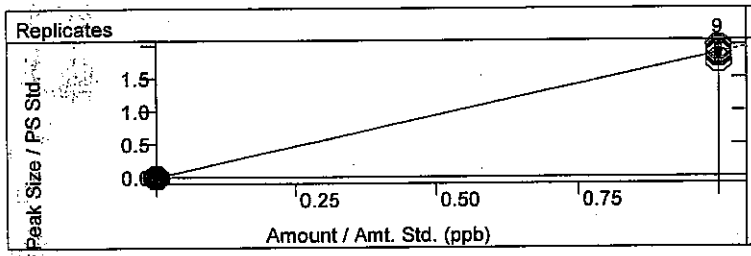
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.56%, Coeff. Det.(r2): 0.999667
y = +18.7622x -0.1487



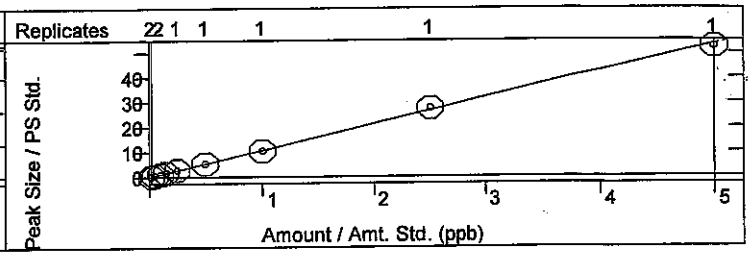
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.227%, Coeff. Det.(r2): 0.998757
y = +6.4646x +0.2471



Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 3.421%, Coeff. Det.(r2): 0.989702
y = +1.8764x

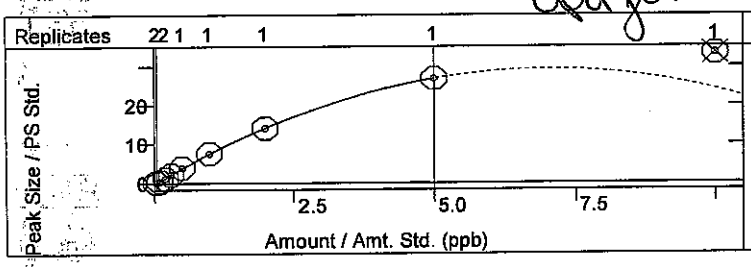


Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.885%, Coeff. Det.(r2): 0.999349
y = +10.6832x +0.0514

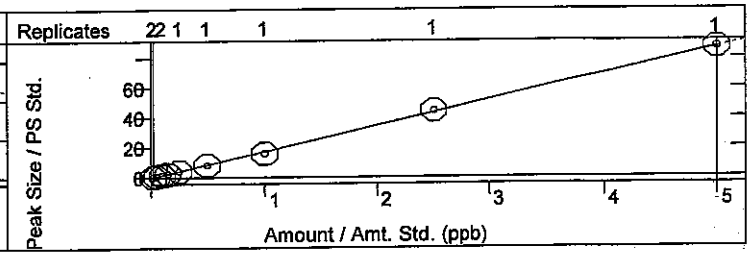


2-Chloroethyl vinyl ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 22.25%, Coeff. Det.(r2): 0.999883
y = -0.5994x2 +8.4266x -0.2584

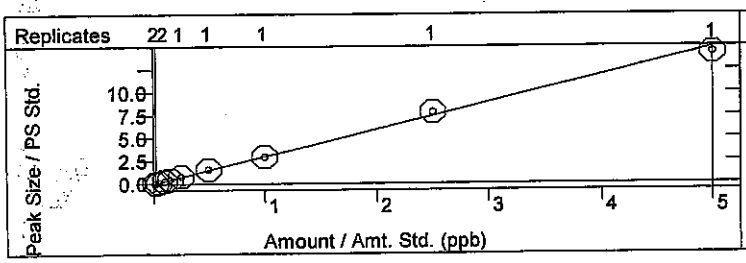
cpd fit



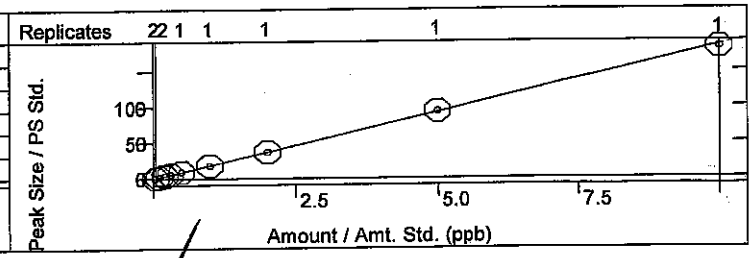
cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.170%, Coeff. Det.(r2): 0.999597
y = +17.3985x -0.0821



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.643%, Coeff. Det.(r2): 0.998127
y = +2.9780x -8.0662e-4



2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.999795
y = +18.5504x -0.1254



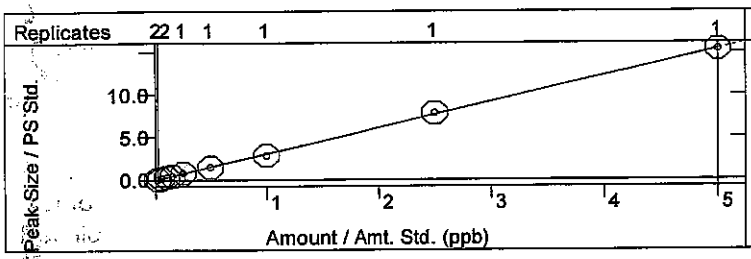
NB 7/3/14

Calibration Curves Report

7.2.14

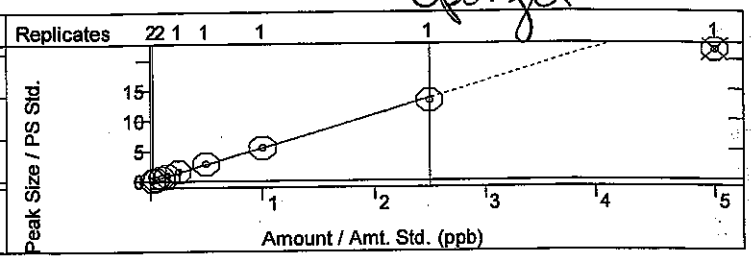
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.394%, Coeff. Det.(r2): 0.999659
y = +3.0661x +0.0076

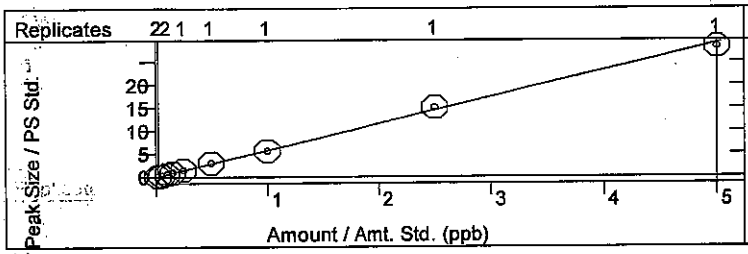


Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.004%, Coeff. Det.(r2): 0.999471
y = +5.4678x +0.0349

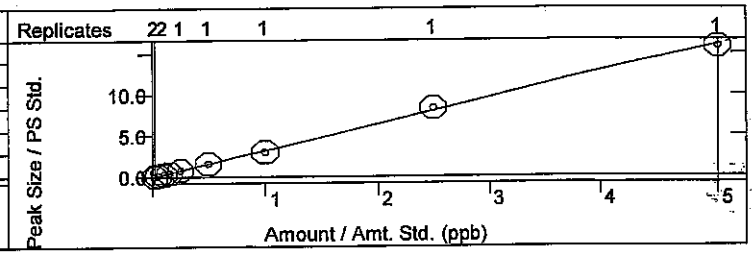
cpd fit



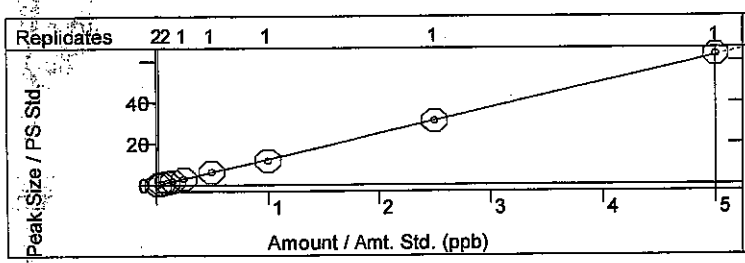
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.234%, Coeff. Det.(r2): 0.998981
y = +5.8135x +0.0010



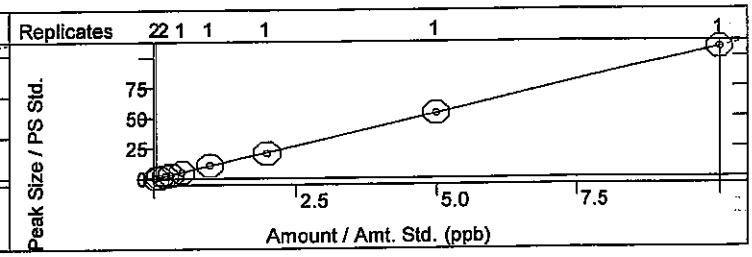
trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.906%, Coeff. Det.(r2): 0.999185
y = +3.2188x -0.0128



Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.997%, Coeff. Det.(r2): 0.999839
y = +12.5106x -0.0019

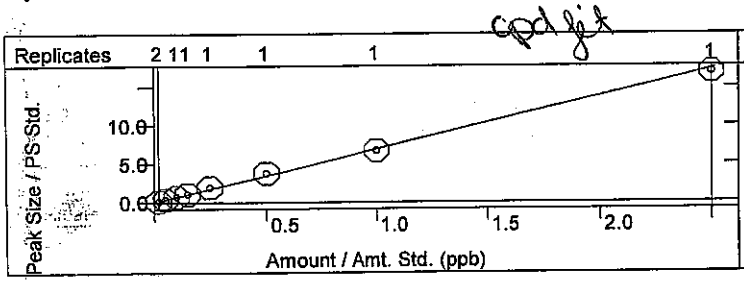


mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.725%, Coeff. Det.(r2): 0.999940
y = +10.7446x +0.0447

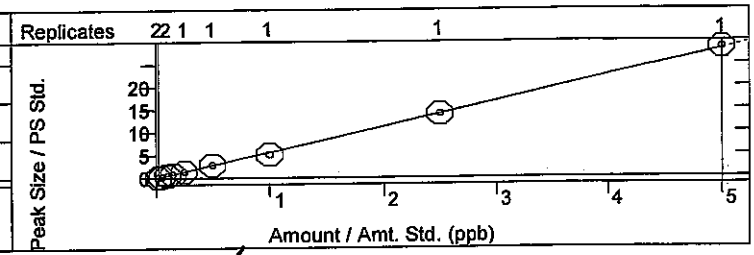


1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.901%, Coeff. Det.(r2): 0.999270
y = +6.9082x +0.0351

cpd fit



Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.284%, Coeff. Det.(r2): 0.999601
y = +5.6307x -0.0036



JB 7/3/14

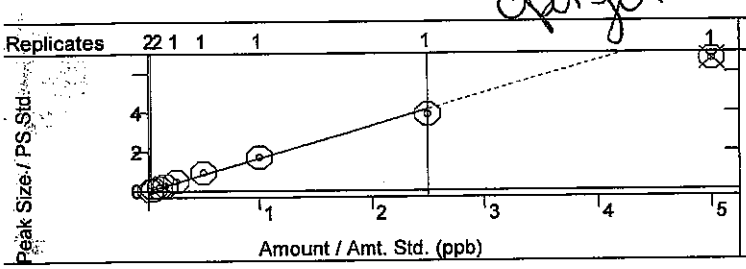
Calibration Curves Report

CCV 7.2.14

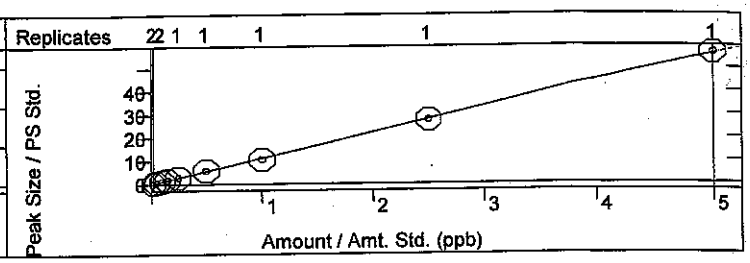
Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.997156
y = +1.6606x +0.0166

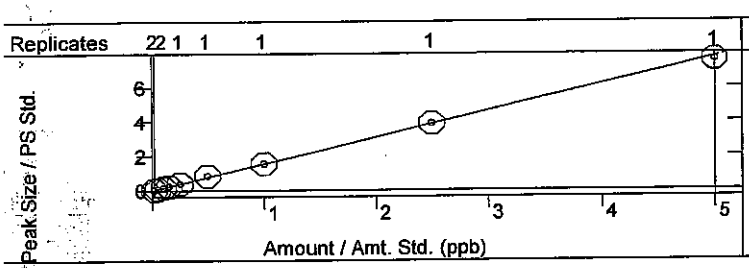
cpd fit



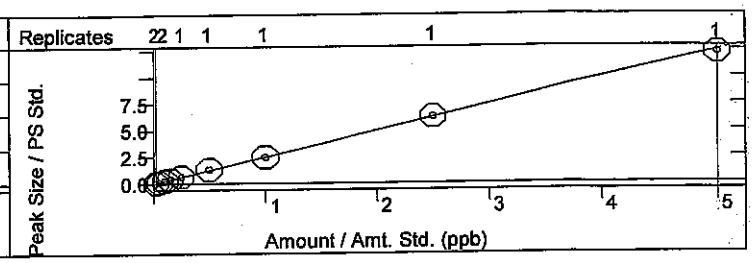
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.714%, Coeff. Det.(r2): 0.999748
y = +11.2091x +0.0117



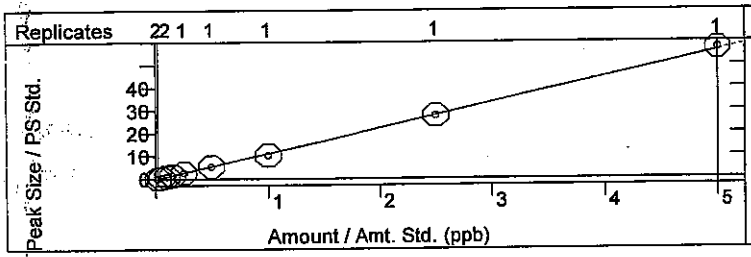
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.111%, Coeff. Det.(r2): 0.999711
y = +1.5460x +0.0069



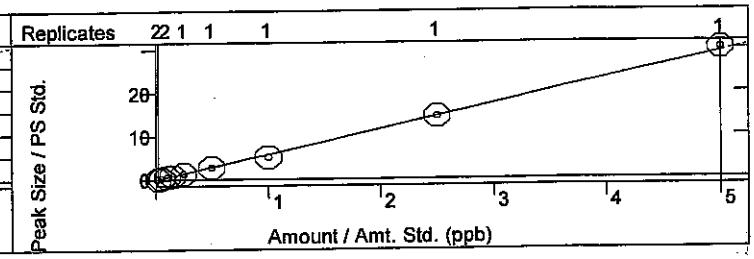
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.447%, Coeff. Det.(r2): 0.999830
y = +2.4886x +0.0124



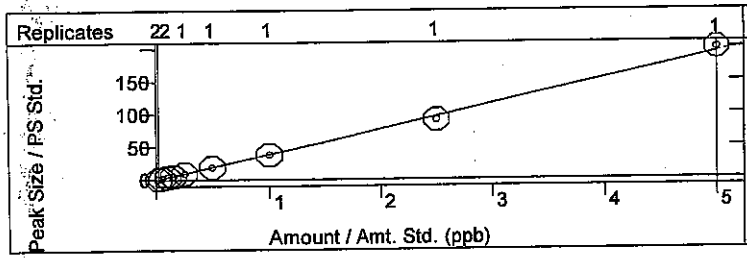
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.832%, Coeff. Det.(r2): 0.999577
y = +11.2207x -0.0089



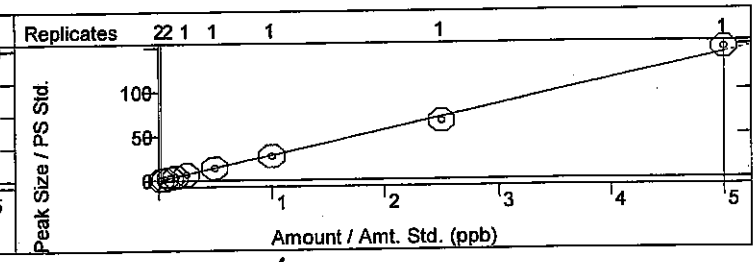
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.144%, Coeff. Det.(r2): 0.999169
y = +5.8575x -0.0325



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.452%, Coeff. Det.(r2): 0.998380
y = +38.6484x -0.0230



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.617%, Coeff. Det.(r2): 0.997729
y = +28.2816x -0.0162



VNS 7/3/14

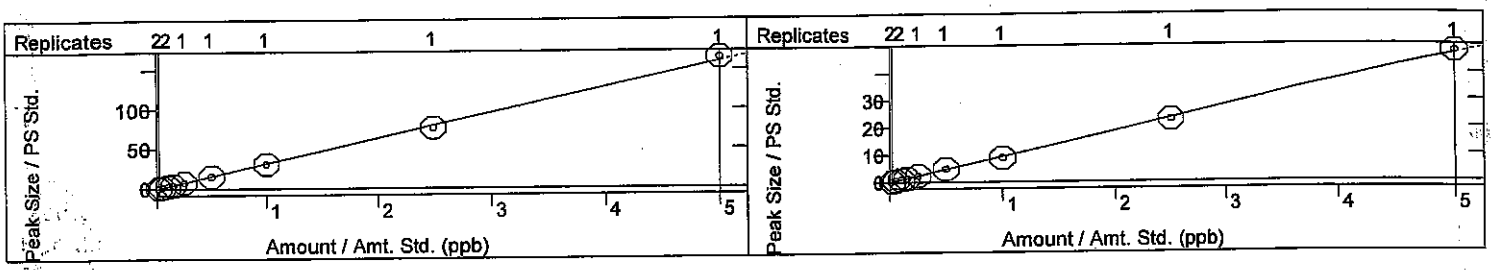
Calibration Curves Report

cp 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.133%, Coeff. Det.(r2): 0.998866
y = +32.0381x +0.0029

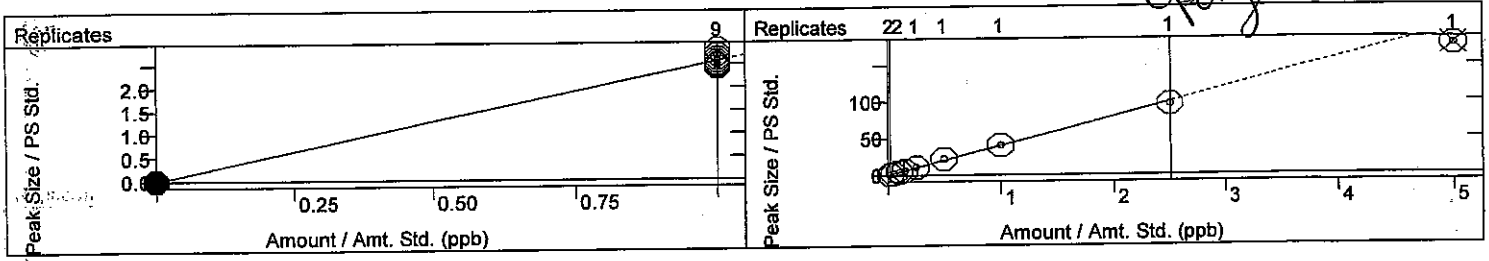
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.862%, Coeff. Det.(r2): 0.999459
y = +9.3856x +0.0203



4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 4.943%, Coeff. Det.(r2): 0.978744
y = +2.5685x

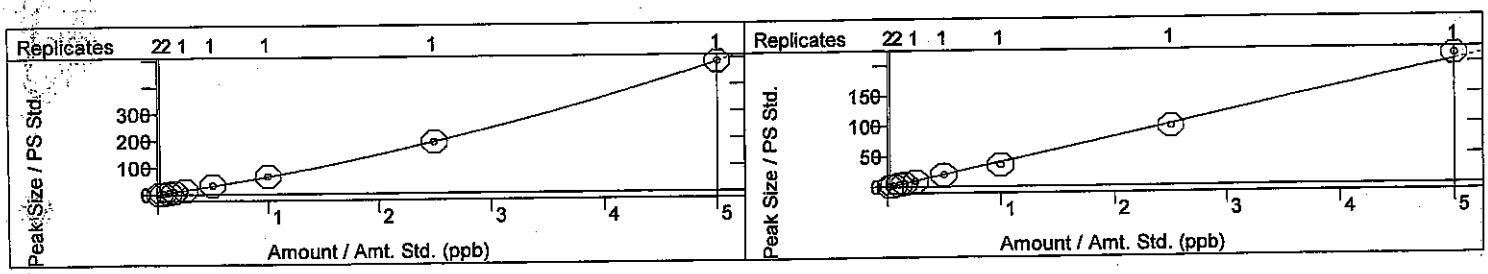
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.055%, Coeff. Det.(r2): 0.999146
y = +39.8063x +0.4339

cpd fit



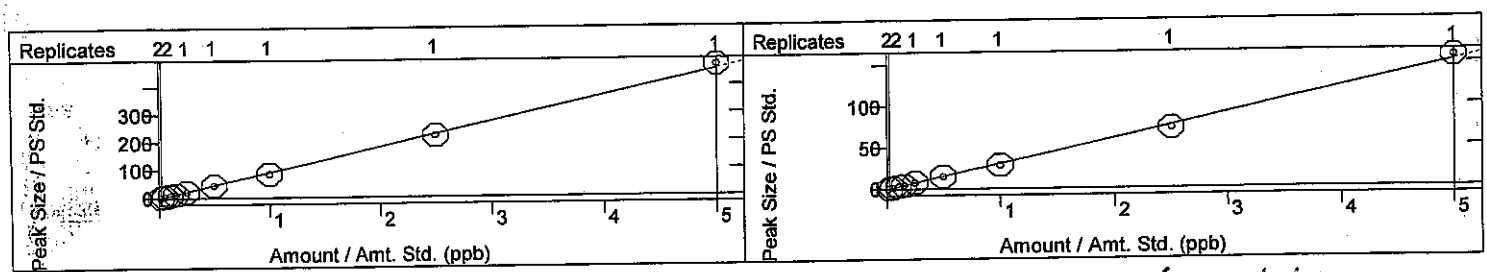
4-Chlorotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.24%, Coeff. Det.(r2): 0.999960
y = +8.0511x2 +56.6805x +1.0911

sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.376%, Coeff. Det.(r2): 0.997936
y = +40.8540x -0.0623



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.630%, Coeff. Det.(r2): 0.999023
y = +91.4908x -0.1643

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.784%, Coeff. Det.(r2): 0.998606
y = +30.4997x +0.0205



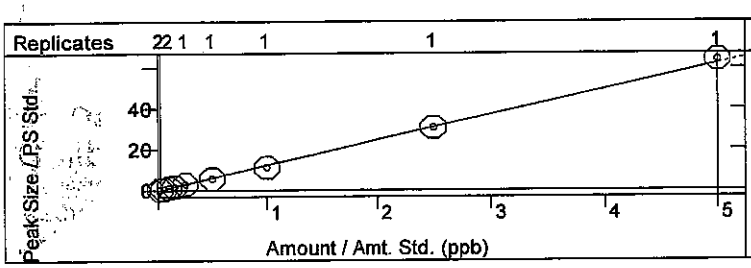
✓ NB 7/3/14

Calibration Curves Report

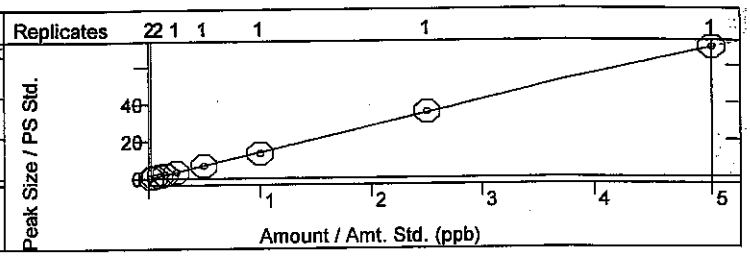
cg 7-2-14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

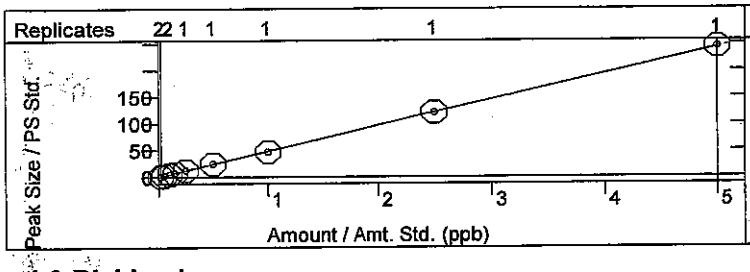
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.892%, Coeff. Det.(r2): 0.999285
y = +12.4233x -0.0710



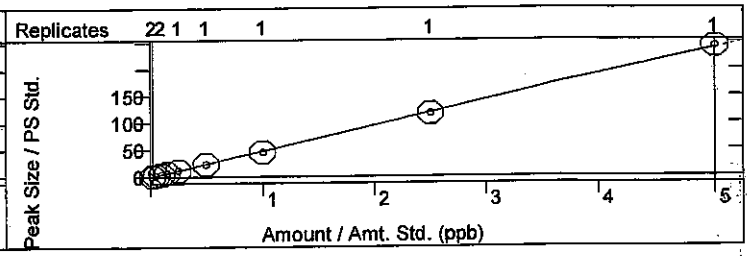
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.067%, Coeff. Det.(r2): 0.999872
y = +14.0110x +0.0177



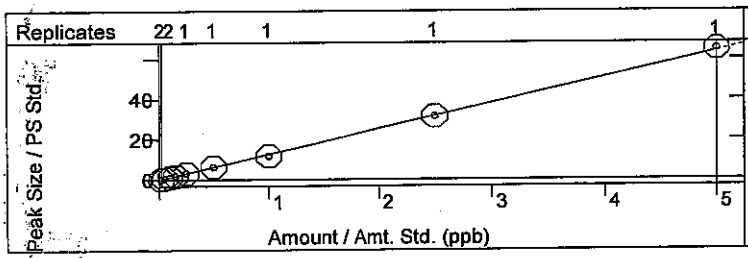
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.622%, Coeff. Det.(r2): 0.999938
y = +48.4769x +0.2358



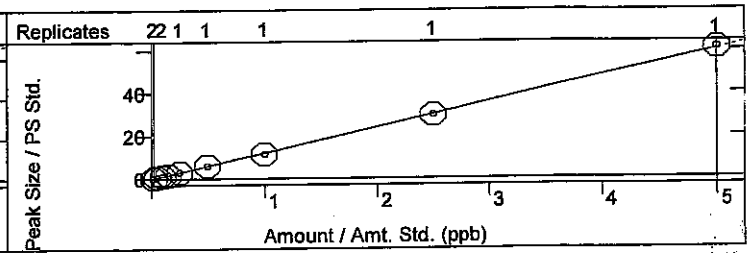
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.968%, Coeff. Det.(r2): 0.999747
y = +47.7543x -0.0641



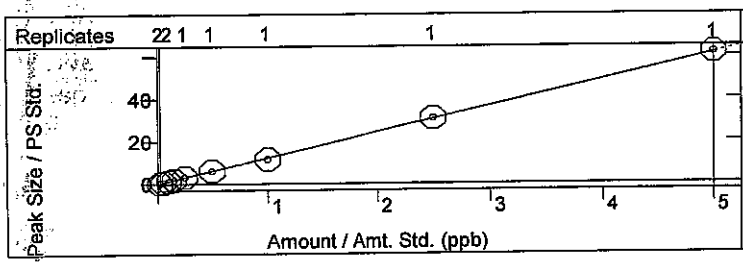
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.903%, Coeff. Det.(r2): 0.999592
y = +12.7489x +0.0147



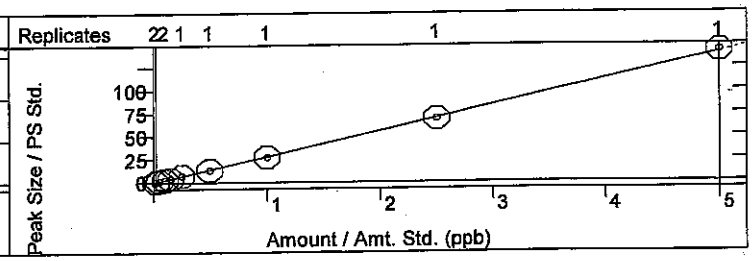
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.999795
y = +12.0658x +0.0025



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.189%, Coeff. Det.(r2): 0.999853
y = +12.2507x +0.0220



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.618%, Coeff. Det.(r2): 0.999804
y = +28.0304x +0.0511



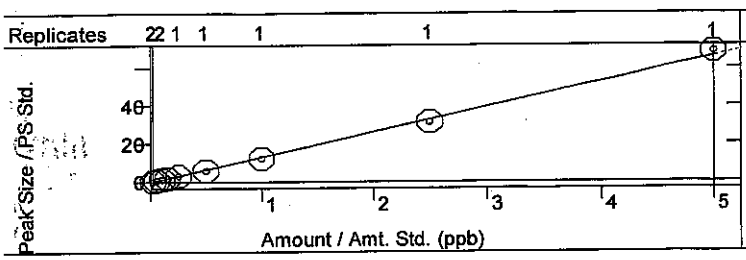
JNB 7/3/14

Calibration Curves Report

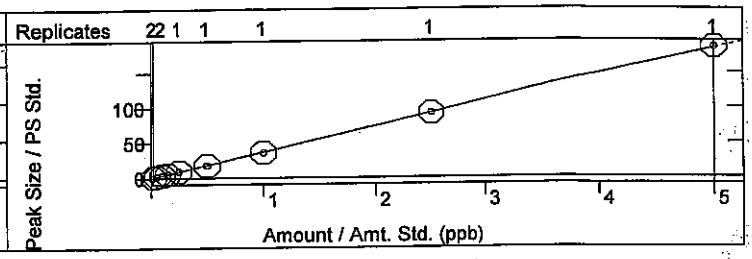
SGJ 7.2.14

Method:	c:\agilentws\methods\070114m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	7/1/2014 9:02 PM
Sample List:	N/A	Method Modified:	7/2/2014 8:10 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

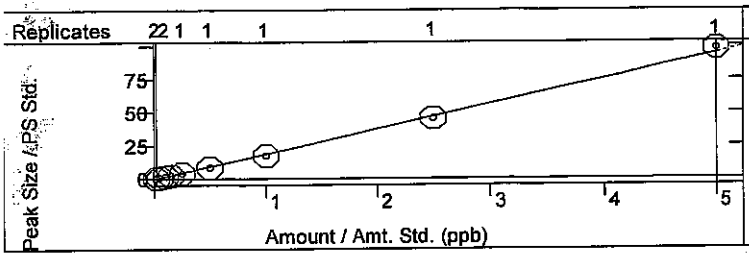
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.998523
y = +13.2059x -0.0388



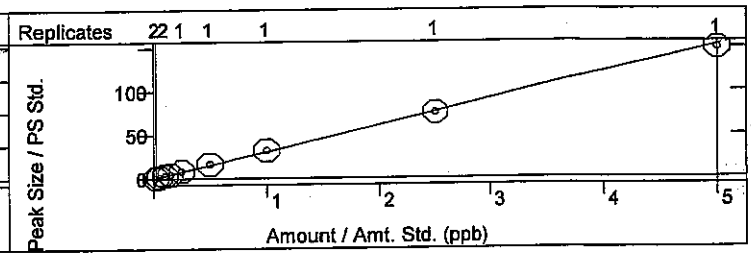
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.602%, Coeff. Det.(r2): 0.999950
y = +36.9512x +0.0486



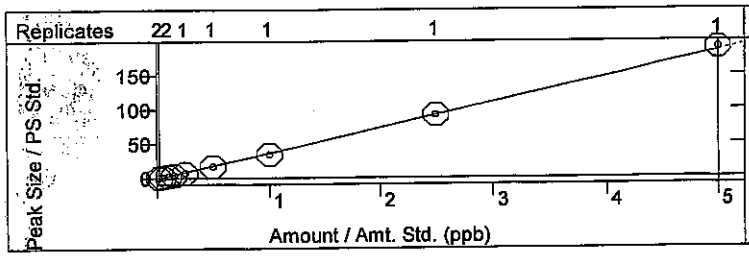
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.015%, Coeff. Det.(r2): 0.998790
y = +18.9317x -0.1816



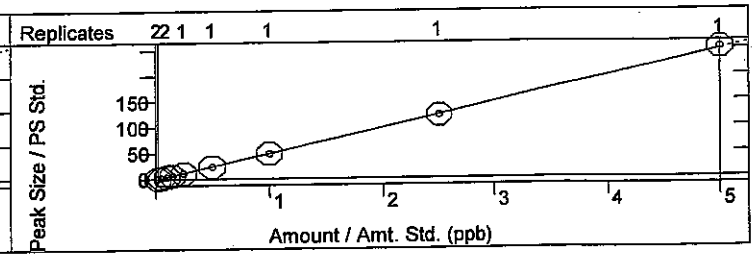
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.348%, Coeff. Det.(r2): 0.999689
y = +30.5080x +0.2538



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.21%, Coeff. Det.(r2): 0.999703
y = +37.1668x -0.6344



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.77%, Coeff. Det.(r2): 0.999876
y = +49.8094x -0.5703

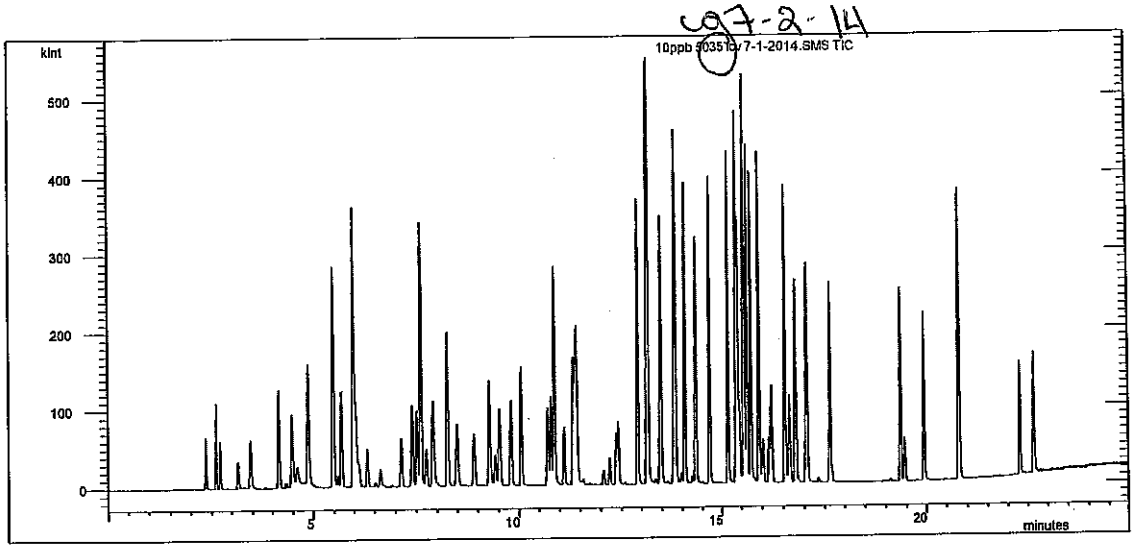


WB 7/3/14

8260B/624 Report

Sample Name:	10ppb 5035 icv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\070114m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0427	**Acquisition Date:**	7/1/2014 10:07:10 PM
Calculation Date:	7/2/2014 8:29:08 AM				

used as ccv 7-2-14



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.141	700	Identified	40628	20.000
Benzene-d5-, chloro-	13.455	1373	Identified	56008	20.000
1,4-Dichlorobenzene-d4	17.035	1753	Identified	20503	20.000
Dichlorodifluoromethane	2.360	185	Identified	57375	11.630
Chloromethane	2.611	213	Identified	273540	12.212
Vinyl chloride	2.718	224	Identified	292412	10.734
Chloroethane	3.153	271	Identified	47009	9.863
Bromomethane	3.157	272	Identified	72600	10.807
Trichlorofluoromethane	3.453	304	Identified	54915	9.187
1,1-Dichloroethene	4.161	381	Identified	137647	9.376
Acetone	4.346	401	Identified	118146	16.733
Carbon disulfide	4.481	415	Identified	239046	22.053
Iodomethane	4.608	429	Identified	321474	17.160
Methyl tert-butyl ether (MTBE)	4.871	457	Identified	244751	16.784
Isopropyl ether	5.477	522	Identified	1.453E6	21.391
tert-Butyl alcohol	5.583	533	Identified	221810	153.871
trans-1,2-DCE	5.684	544	Identified	275499	9.451
tert-Butyl ethyl ether	5.986	576	Identified	4.713E6	23.009
Methylene Chloride	6.044	582	Identified	177972	10.414
1,1-Dichloroethane	6.124	590	Identified	38142	8.746
Vinyl acetate	6.328	612	Identified	844674	23.647
2,2-Dichloropropane	6.532	634	Identified	22674	5.985
2-Butanone	6.648	647	Identified	307529	17.174
1,1,1-Trichloroethane	7.408	728	Identified	94917	10.002

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.519	740	Identified	144969	9.349
tert-Amyl methyl ether	7.608	749	Identified	1.418E6	22.815
Carbon Tetrachloride	7.739	763	Identified	36091	9.397
cis-1,2-DCE	7.904	781	Identified	57975	9.751
Benzene	8.256	818	Identified	205711	10.078
Chloroform	8.497	844	Identified	98705	9.288
Bromochloromethane	8.917	889	Identified	82846	10.301
Trichloroethene (TCE)	9.273	927	Identified	320345	9.854
Dibromofluoromethane	9.307	931	Identified	129015	21.161
1,2-Dichloroethane-d4	9.420	943	Identified	452031	20.208
1,2-Dichloroethane (EDC)	9.527	954	Identified	1.332E6	10.178
1,2-Dichloropropane	9.801	983	Identified	403810	10.753
4-Methyl-2-pentanone	10.041	1009	Identified	371567	19.760
Toluene-d8	10.792	1089	Identified	104553	19.897
Toluene	10.873	1098	Identified	304823	10.093
2-Chloroethyl vinyl ether	11.111	1123	Identified	393716	18.517
cis-1,3-dichloropropene	11.325	1146	Identified	433167	8.985
Bromodichloromethane	11.338	1147	Identified	88882	10.663
2-Hexanone	11.375	1151	Identified	1.005E6	19.486
Tetrachloroethene (PCE)	11.408	1155	Identified	85437	9.901
Dibromomethane	11.428	1157	Identified	164474	10.614
1,3-Dichloropropane	12.367	1257	Identified	166287	10.210
trans-1,3-dichloropropene	12.419	1263	Identified	81188	9.087
Ethylbenzene	12.898	1314	Identified	341848	9.760
mp-Xylenes	13.147	1341	Identified	598594	19.811
1,1,2-Trichloroethane	13.148	1341	Identified	208400	10.671
Chlorobenzene	13.478	1375	Identified	152359	9.675
1,2-Dibromoethane (EDB)	13.465	1374	Identified	49337	10.409
o-Xylene	13.820	1411	Identified	306894	9.756
Dibromochloromethane	13.796	1409	Identified	44974	10.298
1,1,1,2-Tetrachloroethane	13.844	1414	Identified	71441	10.151
Isopropylbenzene	14.059	1437	Identified	306260	9.762
Styrene	14.331	1465	Identified	146802	9.061
n-Propylbenzene	14.681	1502	Identified	385233	9.735
1,3,5-Trimethylbenzene	15.160	1554	Identified	276806	9.559
tert-Butylbenzene	15.369	1576	Identified	316693	9.641
2-Chlorotoluene	15.412	1580	Failed	95254	9.857
4-Bromofluorobenzene	15.462	1586	Identified	52131	19.799
Bromobenzene	15.557	1596	Identified	463987	11.152
4-Chlorotoluene	15.572	1597	Identified	656847	10.183
sec-Butylbenzene	15.646	1605	Identified	404826	9.697
1,2,4-Trimethylbenzene	15.739	1614	Identified	888564	9.510
4-Isopropyltoluene	15.934	1635	Identified	298294	9.527
Bromoform	16.024	1645	Identified	122679	9.747
1,2,3-Trichloropropane	16.229	1667	Identified	141928	9.856
n-Butylbenzene	16.548	1701	Identified	503619	10.037
1,1,2,2-Tetrachloroethane	16.651	1712	Identified	478197	9.795
1,3-Dichlorobenzene	16.801	1728	Identified	124824	9.528
1,4-Dichlorobenzene	17.061	1755	Identified	120862	9.767
1,2-Dichlorobenzene	17.646	1818	Identified	125233	9.936

Operator: Christina Gallegos Inj. Notes: V-54-0427 10ppb 5035 icv 7-1-2014.SMS

7/2/2014 8:29

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.354	2003	Identified	269902	9.356
1,2-Dibromo-3-chloropropane	19.454	2013	Identified	126785	9.424
1,2,4-Trichlorobenzene	19.942	2066	Identified	358218	9.430
Naphthalene	20.801	2158	Identified	166885	8.791
1,2,3-Trichlorobenzene	20.813	2159	Identified	322458	10.144
2-Methylnaphthalene	22.298	2316	Identified	300299	8.223
1-Methylnaphthalene	22.653	2354	Identified	430734	8.665

****
Revision Log
****

7/1/2014 10:32 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\070114m 8260-5035 Low.mth'
7/2/2014 8:29 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\070114m 8260-5035 Low.mth'

neric SampleList Printout - Fri Jul 18 16:54:43 2014

mpleList: C:\AgilentWS\071814m.smp

eated: Fri Jul 18 12:29:03 2014
dified: Fri Jul 18 16:54:39 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0046	
2	b2	none
3	b3	none
4	~~b4~~	none mb-14314 run @ 3:31
5	10ppb 5035 ccv	below ICS @ 4:01
	Notes V-54-0439	ICV - 14314
6	~~10ppb 5035 lcs~~	below
	Notes V-11-8032	
7	vcb	none
8	1407901-001a	below
	Notes x1 low level soil pb14314	
9	1407901-001ams	below
	Notes x1 low level soil pb14314 V-11-8032	
10	1407901-001amsd	below
	Notes x1 low level soil pb14314 V-11-8032	
11	1407901-002a	below
	Notes x1 low level soil pb14314	
12	1407901-003a	below
	Notes x1 low level soil pb14314	
13	1407901-004a (hard case)	below
	Notes x1 low level soil pb14314 @ 7:59	
14	b5	none
15	b6	none
16		

Loaded By: cg 7.18.14
1st Review By: cg 7.21.14
QA'd By: ✓ NB 7/22/14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\071814m.rcl.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 7/18/2014 Time: 16:01

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/1/2014 7/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:37 20:37

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0714m\070114m crv\10ppb 5035 crv 7-1-2014.SMS

Lab File ID: c:\agilentws\data\10ppb 5035 ccv 7-18-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	2.319	0.100	10.00	9.51	4.9	30.0	PASS	PASS
Chloromethane	11.303	0.100	10.00	10.26	-2.6	30.0	PASS	PASS
Vinyl chloride	12.806	0.100	10.00	9.57	4.3	20.0	PASS	PASS
Chloroethane	2.180	0.100	10.00	9.32	6.8	30.0	PASS	PASS
Bromomethane	1.199	0.100	10.00	4.32	56.8	30.0	FAIL	PASS
Trichlorofluoromethane	3.241	0.100	10.00	10.98	-9.8	30.0	PASS	PASS
1,1-Dichloroethene	7.669	0.100	10.00	10.58	-5.8	20.0	PASS	PASS
Acetone	3.300	0.100	20.00	18.75	6.3	40.0	PASS	PASS
Carbon disulfide	5.987	0.100	20.00	22.45	-12.2	40.0	PASS	PASS
Iodomethane	3.602	0.100	20.00	8.70	56.5	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	5.039	0.100	20.00	13.54	32.3	30.0	FAIL	PASS
Isopropyl ether	37.548	0.100	20.00	22.45	-12.3	40.0	PASS	PASS
tert-Butyl alcohol	0.452	0.100	200.00	126.79	36.6	40.0	PASS	PASS
trans-1,2-DCE	14.199	0.100	10.00	9.88	1.2	30.0	PASS	PASS
tert-Butyl ethyl ether	115.136	0.100	20.00	22.84	-14.2	40.0	PASS	PASS
Methylene Chloride	10.287	0.100	10.00	12.26	-22.6	30.0	PASS	PASS
1,1-Dichloroethane	2.903	0.100	10.00	11.57	-15.7	30.0	PASS	PASS
Vinyl acetate	16.383	0.100	20.00	18.76	6.2	40.0	PASS	PASS
2,2-Dichloropropane	0.520	0.100	10.00	2.15	78.5	30.0	FAIL	PASS
2-Butanone	7.286	0.100	20.00	16.57	17.2	40.0	PASS	PASS
1,1,1-Trichloroethane	4.484	0.100	10.00	9.60	4.0	30.0	PASS	PASS
1,1-Dichloropropene	7.854	0.100	10.00	10.29	-2.9	30.0	PASS	PASS
tert-Amyl methyl ether	34.308	0.100	20.00	22.43	-12.1	40.0	PASS	PASS
Carbon Tetrachloride	2.362	0.100	10.00	12.48	-24.8	30.0	PASS	PASS
cis-1,2-DCE	3.055	0.100	10.00	10.43	-4.3	30.0	PASS	PASS
Benzene	11.112	0.100	10.00	11.06	-10.6	30.0	PASS	PASS
Chloroform	5.575	0.100	10.00	10.61	-6.1	20.0	PASS	PASS
Bromochloromethane	4.190	0.100	10.00	10.58	-5.8	30.0	PASS	PASS
Trichloroethene (TCE)	17.811	0.100	10.00	11.14	-11.4	30.0	PASS	PASS
Dibromofluoromethane	3.636	0.100	20.00	24.23	-21.2	30.0	PASS	PASS
1,2-Dichloroethane-d4	12.612	0.100	20.00	22.91	-14.5	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	74.988	0.100	10.00	11.60	-16.0	30.0	PASS	PASS
1,2-Dichloropropane	21.926	0.100	10.00	11.84	-18.4	20.0	PASS	PASS
4-Methyl-2-pentanone	6.824	0.100	20.00	20.35	-1.7	40.0	PASS	PASS
Toluene-d8	1.926	0.100	20.00	20.53	-2.6	30.0	PASS	PASS

7 NMR

NR

1 runs

ccv 7.21.14

2 runs

MB 7/22/14

Analyst: cadg

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	11.406	0.100	10.00	10.58	-5.8	20.0	PASS	PASS
2-Chloroethyl vinyl ether	3.723	0.100	20.00	9.79	51.0	40.0	FAIL	PASS
cis-1,3-dichloropropene	17.404	0.100	10.00	10.10	-1.0	30.0	PASS	PASS
Bromodichloromethane	3.215	0.100	10.00	10.80	-8.0	30.0	PASS	PASS
2-Hexanone	18.235	0.100	20.00	19.79	1.0	40.0	PASS	PASS
Tetrachloroethene (PCE)	3.093	0.100	10.00	10.04	-0.4	30.0	PASS	PASS
Dibromomethane	6.613	0.100	10.00	11.97	-19.7	30.0	PASS	PASS
1,3-Dichloropropane	6.185	0.100	10.00	10.64	-6.4	30.0	PASS	PASS
trans-1,3-dichloropropene	3.151	0.100	10.00	9.87	1.3	30.0	PASS	PASS
Ethylbenzene	12.368	0.100	10.00	9.89	1.1	20.0	PASS	PASS
mp-Xylenes	11.154	0.100	20.00	20.68	-3.4	30.0	PASS	PASS
1,1,2-Trichloroethane	7.562	0.100	10.00	10.84	-8.4	30.0	PASS	PASS
Chlorobenzene	5.599	0.300	10.00	9.96	0.4	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.968	0.100	10.00	11.65	-16.5	30.0	PASS	PASS
o-Xylene	11.322	0.100	10.00	10.08	-0.8	30.0	PASS	PASS
Dibromochloromethane	1.643	0.100	10.00	10.54	-5.4	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.744	0.100	10.00	10.93	-9.3	30.0	PASS	PASS
Isopropylbenzene	11.238	0.100	10.00	10.03	-0.3	30.0	PASS	PASS
Styrene	5.511	0.100	10.00	9.52	4.8	30.0	PASS	PASS
n-Propylbenzene	40.021	0.100	10.00	10.37	-3.7	30.0	PASS	PASS
1,3,5-Trimethylbenzene	29.507	0.100	10.00	10.44	-4.4	30.0	PASS	PASS
tert-Butylbenzene	33.376	0.100	10.00	10.42	-4.2	30.0	PASS	PASS
2-Chlorotoluene	10.361	0.100	10.00	11.00	-10.0	30.0	PASS	PASS
4-Bromofluorobenzene	2.616	0.100	20.00	20.37	-1.8	30.0	PASS	PASS
Bromobenzene	46.603	0.100	10.00	11.49	-14.9	30.0	PASS	PASS
4-Chlorotoluene	72.369	0.100	10.00	11.45	-14.5	30.0	PASS	PASS
sec-Butylbenzene	42.113	0.100	10.00	10.34	-3.4	30.0	PASS	PASS
1,2,4-Trimethylbenzene	96.540	0.100	10.00	10.59	-5.9	30.0	PASS	PASS
4-Isopropyltoluene	31.739	0.100	10.00	10.39	-3.9	30.0	PASS	PASS
Bromoform	11.808	0.100	10.00	9.62	3.8	30.0	PASS	PASS
1,2,3-Trichloropropane	15.315	0.100	10.00	10.91	-9.1	30.0	PASS	PASS
n-Butylbenzene	51.059	0.100	10.00	10.44	-4.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	49.298	0.300	10.00	10.35	-3.5	30.0	PASS	PASS
1,3-Dichlorobenzene	13.552	0.100	10.00	10.61	-6.1	30.0	PASS	PASS
1,4-Dichlorobenzene	12.752	0.100	10.00	10.56	-5.6	30.0	PASS	PASS
1,2-Dichlorobenzene	13.449	0.100	10.00	10.94	-9.4	30.0	PASS	PASS
Hexachlorobutadiene	29.195	0.100	10.00	10.38	-3.8	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	12.796	0.100	10.00	9.75	2.5	30.0	PASS	PASS
1,2,4-Trichlorobenzene	42.206	0.100	10.00	11.40	-14.0	30.0	PASS	PASS
Naphthalene	19.229	0.100	10.00	10.35	-3.5	30.0	PASS	PASS
1,2,3-Trichlorobenzene	39.730	0.100	10.00	12.86	-28.6	30.0	PASS	PASS
2-Methylnaphthalene	30.770	0.100	10.00	8.62	13.8	40.0	PASS	PASS
1-Methylnaphthalene	45.859	0.100	10.00	9.44	5.6	40.0	PASS	PASS

NL

cg 7.21.14

pb 7/22/14

Analyst: cadg

7.22.14

Analytical Report
Lab Order: **1407901**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-001
Client Sample ID: FFOR-CF-0028
Collection Date: 7/18/2014 9:52:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Aniline	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Chrysene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Isophorone	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Phenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Pyridine	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 12:00:20 PM
Surr: 2-Fluorophenol	72.2	21-111	%REC	1	14320	7/21/2014 12:00:20 PM
Surr: Phenol-d5	70.0	23.1-117	%REC	1	14320	7/21/2014 12:00:20 PM
Surr: 2,4,6-Tribromophenol	69.8	22.7-88.9	%REC	1	14320	7/21/2014 12:00:20 PM
Surr: Nitrobenzene-d5	75.2	24.5-126	%REC	1	14320	7/21/2014 12:00:20 PM
Surr: 2-Fluorobiphenyl	75.6	21.2-129	%REC	1	14320	7/21/2014 12:00:20 PM
Surr: 4-Terphenyl-d14	76.2	39.4-107	%REC	1	14320	7/21/2014 12:00:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-002
Client Sample ID: FFOR-CF-0029
Collection Date: 7/18/2014 10:01:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Aniline	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Benz(a)anthracene	0.10	0.22	J	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Chrysene	0.056	0.22	J	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1407901
Project: Kirtland AFB

Comment: DUE 07/23/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Fluorene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Isophorone	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Naphthalene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Phenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Pyrene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Pyridine	ND	0.54	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14320	7/21/2014 2:34:58 PM
Surr: 2-Fluorophenol	67.4	21-111	%REC	1	14320	7/21/2014 2:34:58 PM
Surr: Phenol-d5	66.9	23.1-117	%REC	1	14320	7/21/2014 2:34:58 PM
Surr: 2,4,6-Tribromophenol	64.6	22.7-88.9	%REC	1	14320	7/21/2014 2:34:58 PM
Surr: Nitrobenzene-d5	81.9	24.5-126	%REC	1	14320	7/21/2014 2:34:58 PM
Surr: 2-Fluorobiphenyl	76.1	21.2-129	%REC	1	14320	7/21/2014 2:34:58 PM
Surr: 4-Terphenyl-d14	75.4	39.4-107	%REC	1	14320	7/21/2014 2:34:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-003
Client Sample ID: FFOR-CF-0030
Collection Date: 7/18/2014 10:12:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Acenaphthylene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Aniline	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Anthracene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Benz(a)anthracene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Benzo(a)pyrene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Benzo(b)fluoranthene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Benzo(g,h,i)perylene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Benzo(k)fluoranthene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Bis(2-chloroisopropyl)ether	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Bis(2-ethylhexyl)phthalate	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Carbazole	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Chloro-3-methylphenol	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Chloroaniline	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Chrysene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Di-n-butyl phthalate	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Dibenz(a,h)anthracene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Dibenzofuran	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4,6-Dinitro-2-methylphenol	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4-Dinitrophenol	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,6-Dinitrotoluene	ND	0.53		mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Fluorene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Hexachlorobenzene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Hexachlorobutadiene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Hexachlorocyclopentadiene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Hexachloroethane	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Isophorone	ND	0.53	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Methylnaphthalene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Methylphenol	ND	0.53	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
3+4-Methylphenol	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
N-Nitrosodi-n-propylamine	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
N-Nitrosodimethylamine	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
N-Nitrosodiphenylamine	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Naphthalene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Nitroaniline	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
3-Nitroaniline	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Nitrobenzene	ND	0.53	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2-Nitrophenol	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Phenanthrene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Phenol	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Pyrene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Pyridine	ND	0.53	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
1,2,4-Trichlorobenzene	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4,5-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
2,4,6-Trichlorophenol	ND	0.21	mg/Kg-dry	1	14320	7/21/2014 1:36:13 PM
Surr: 2-Fluorophenol	81.4	21-111	%REC	1	14320	7/21/2014 1:36:13 PM
Surr: Phenol-d5	82.4	23.1-117	%REC	1	14320	7/21/2014 1:36:13 PM
Surr: 2,4,6-Tribromophenol	85.2	22.7-88.9	%REC	1	14320	7/21/2014 1:36:13 PM
Surr: Nitrobenzene-d5	86.1	24.5-126	%REC	1	14320	7/21/2014 1:36:13 PM
Surr: 2-Fluorobiphenyl	94.9	21.2-129	%REC	1	14320	7/21/2014 1:36:13 PM
Surr: 4-Terphenyl-d14	88.3	39.4-107	%REC	1	14320	7/21/2014 1:36:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1407901**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-004
Client Sample ID: FFOR-CF-0031
Collection Date: 7/18/2014 12:09:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Aniline	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Anthracene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Benz(a)anthracene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Benzo(a)pyrene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Benzo(b)fluoranthene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Benzo(g,h,i)perylene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Carbazole	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Chrysene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Di-n-butyl phthalate	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Dibenz(a,h)anthracene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Dibenzofuran	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Comment: DUE 07/23/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Fluorene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Hexachlorobenzene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Hexachlorobutadiene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Hexachlorocyclopentadiene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Hexachloroethane	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Isophorone	ND	0.56	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Methylnaphthalene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Methylphenol	ND	0.56	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
3+4-Methylphenol	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
N-Nitrosodi-n-propylamine	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
N-Nitrosodimethylamine	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
N-Nitrosodiphenylamine	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Naphthalene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Nitroaniline	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
3-Nitroaniline	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Nitroaniline	ND	0.45	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Nitrobenzene	ND	0.56	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2-Nitrophenol	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Pentachlorophenol	ND	0.45	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Phenanthrene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Phenol	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Pyrene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Pyridine	ND	0.56	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4,5-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
2,4,6-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14320	7/21/2014 2:05:33 PM
Surr: 2-Fluorophenol	60.7	21-111	%REC	1	14320	7/21/2014 2:05:33 PM
Surr: Phenol-d5	61.2	23.1-117	%REC	1	14320	7/21/2014 2:05:33 PM
Surr: 2,4,6-Tribromophenol	58.6	22.7-88.9	%REC	1	14320	7/21/2014 2:05:33 PM
Surr: Nitrobenzene-d5	66.9	24.5-126	%REC	1	14320	7/21/2014 2:05:33 PM
Surr: 2-Fluorobiphenyl	69.3	21.2-129	%REC	1	14320	7/21/2014 2:05:33 PM
Surr: 4-Terphenyl-d14	70.0	39.4-107	%REC	1	14320	7/21/2014 2:05:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Time Started: 11:00

PREP BATCH REPORT

Time Ended: 5:00

Reviewed By: dam 7/21/14

Prep Start Date: 7/20/2014 10:2[illegible] Extraction Method 3540

Prep End Date:

Prep Batch ID: **14320** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14320		Soil			30	0	0	1	0.033	7/20/2014	
LCS-14320		Soil			30	0	0	1	0.033	7/20/2014	
1407901-001A	FFOR-CF-0028	MeOH (Soil)			30.91	0	0	1	0.033	7/20/2014	
1407901-001AMS		MeOH (Soil)			30.12	0	0	1	0.033	7/20/2014	
1407901-001AMSD		MeOH (Soil)			30.06	0	0	1	0.033	7/20/2014	
1407901-002A	FFOR-CF-0029	MeOH (Soil)			30.25	0	0	1	0.033	7/20/2014	
1407901-003A	FFOR-CF-0030	MeOH (Soil)			30.03	0	0	1	0.033	7/20/2014	
1407901-004A	FFOR-CF-0031	MeOH (Soil)			30.18	0	0	1	0.033	7/20/2014	

dam 7/21/14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4649	Methylene Chloride	14925	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 dam 7/21	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500	µL

****

Varian Star Workstation - 8400 SampleList Tue Jul 22 08:39:12 2014

SampleList: C:\VarianWS\072114.smp

Created: Mon Jul 21 10:08:16 2014
Modified: Mon Jul 21 15:32:27 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	mb-14320	1	below	2	1.0
	Notes x1 soil				
4	lcs-14320	1	below	3	1.0
	Notes x1 soil				
5	1407901-001a	1	below	4	1.0
	Notes x1 soil				
6	1407901-001ams	1	below	5	1.0
	Notes x1 soil				
7	1407901-001amsd	1	below	6	1.0
	Notes x1 soil				
8	1407901-003a	1	below	7	1.0
	Notes x1 soil				
9	1407901-004a	1	below	8	1.0
	Notes x1 soil				
10	1407901-002a	1	below	9	1.0
	Notes x1 soil				
11	rb-8270	1	below	10	1.0
	Notes blank				
12					

dam 7/22/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\072114.rcl.

JC 7.22.14

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: df and w.

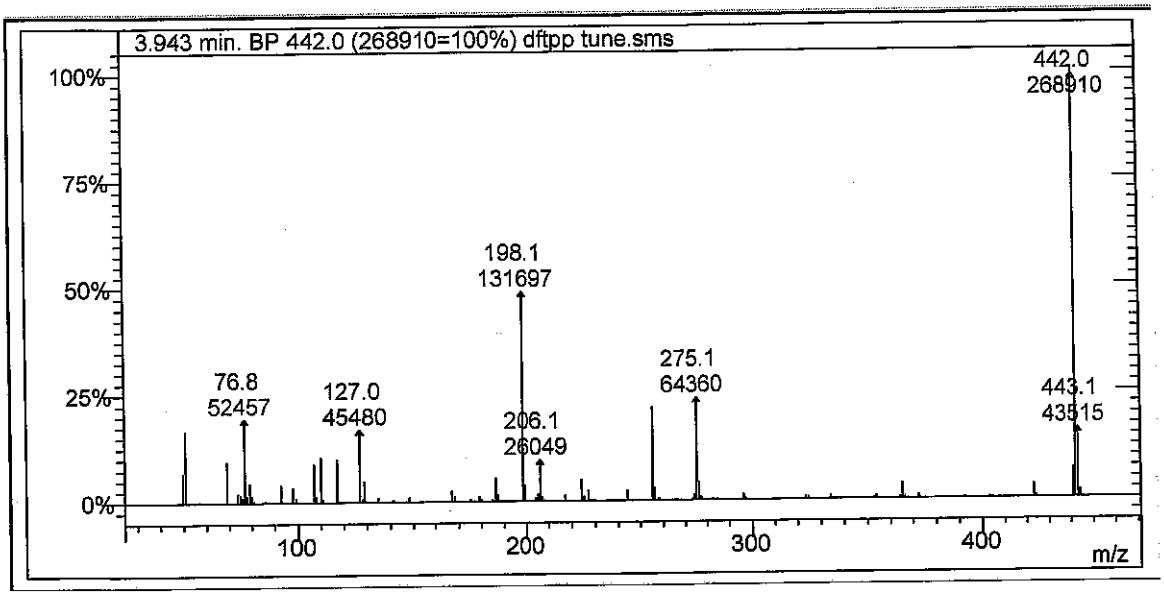
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: _____ 4/28/14

QA: _____ 4.28.14

Additional Comments: _____

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/21/2014

Injection Time: 10:10

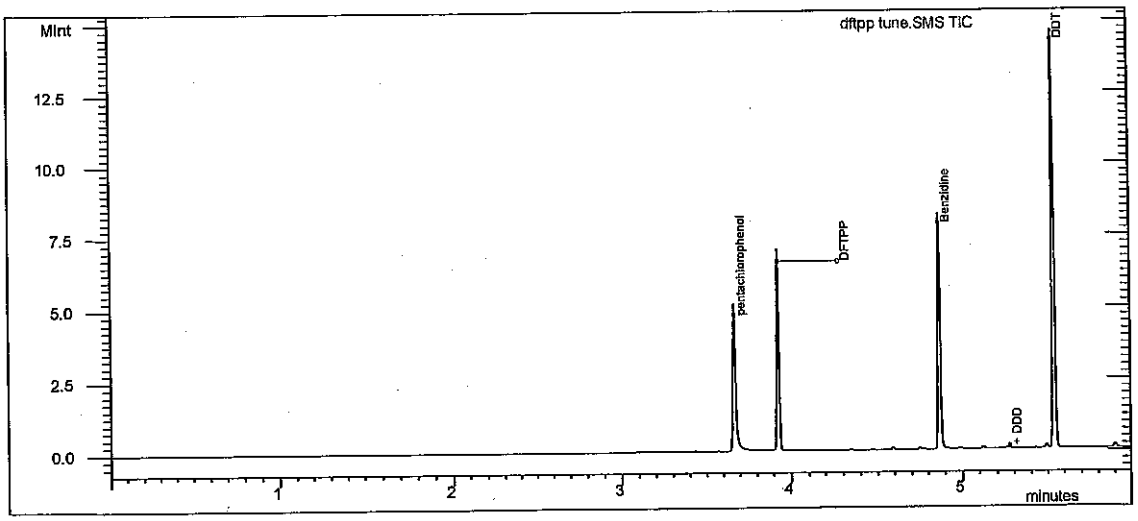
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	16.60	PASS
68	<2% of m/z 69	0.14	PASS
69	Present	9.54	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	16.91	PASS
197	<2% of m/z 198	0.46	PASS
198	Base peak	48.97	PASS
199	5-9% of m/z 198	7.71	PASS
275	10-60% of base peak	23.93	PASS
365	>1% of base peak	3.59	PASS
441	Present and <m/z 443	42.90	PASS
442	>50% of m/z 198	204.19	PASS
443	15-24% of m/z 442	16.18	PASS

dan 7/22/14

JC 7.22.14

Degradation Report

Acquisition Date:	7/21/2014 10:10:51 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.544	3.783E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.273	27794	5
DDE	4.992	1949	6

% Degradation of DDT : = .78

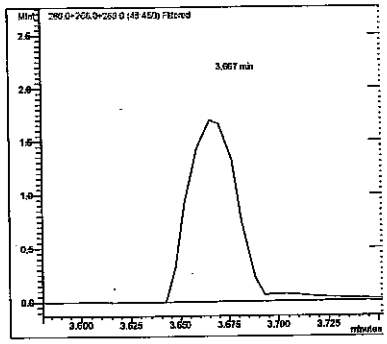
✓ 120 dam 7/22/14

JK 7.22.14

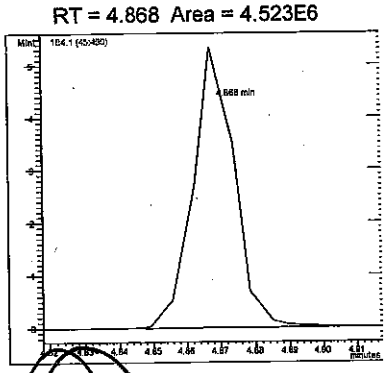
Tailing and Gaussian Factor Report

Acquisition Date: 7/21/2014 10:10:51 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.667 Area = 3.056E6



Benzidine
RT = 4.868 Area = 4.523E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.667	1.462	0.860
Benzidine	4.868	1.144	0.953

#	Compound Name	RT	Area
1	pentachlorophenol	3.667	3.056E6
3	Benzidine	4.868	4.523E6

✓ 43 LS dmm 7/22/14

JC 7.22.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	178905	5.19	633876	6.91	300480	9.51	546081	11.76	610021	15.78	783505	17.94

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

dhm 7/22/14

JC 7.22.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\072114\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 7/21/2014 Time Analyzed: 10:29

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	178905	5.19	633876	6.91	300480	9.51	546081	11.76	610021	15.78	783505	17.94
UPPER LIMIT	357810	5.69	1.268E6	7.41	600960	10.01	1.092E6	12.26	1.220E6	16.28	1.567E6	18.44
LOWER LIMIT	89453	4.69	316938	6.41	150240	9.01	273041	11.26	305011	15.28	391753	17.44
EPA SAMPLE NO												
mb-14320	148193	5.19	510153	6.91	236916	9.51	458505	11.76	538467	15.78	613739	17.93
lcs-14320	137422	5.19	458390	6.91	205094	9.51	394412	11.76	461395	15.78	517885	17.93
1407901-00	134982	5.19	473979	6.91	212690	9.51	409579	11.76	462569	15.78	543676	17.94
1407901-00	140246	5.19	477637	6.91	207986	9.51	384420	11.76	411188	15.78	472980 D	17.93 D
1407901-00	132350	5.19	419046	6.91	189738	9.51	396793	11.76	407659	15.78	488114	17.94
1407901-00	128549	5.18	438241	6.91	170975	9.50	356611	11.75	410925	15.77	491592	17.93
1407901-00	130792	5.19	441724	6.91	192559	9.51	379729	11.76	408888	15.78	491745	17.93
1407901-00	132866	5.19	407285	6.91	187698	9.51	407389	11.76	431772	15.78	532233	17.93
rb-8270	163561	5.19	544721	6.91	257884	9.51	509801	11.76	539101	15.78	688565	17.94

dam 7/22/14

7-22-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 7/21/2014 Time: 10:29

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.247	0.050	50.00	53.47	-6.9	40.0	PASS	PASS
Pyridine	9.504	0.050	50.00	52.08	-4.2	40.0	PASS	PASS
2-Fluorophenol	1.115	0.050	50.00	48.61	2.8	40.0	PASS	PASS
Phenol-d5	1.096	0.050	50.00	50.19	-0.4	40.0	PASS	PASS
Phenol	1.194	0.050	50.00	48.67	2.7	20.0	PASS	PASS
Aniline	3.485	0.050	50.00	42.57	14.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.993	0.050	50.00	49.63	0.7	40.0	PASS	PASS
2-Chlorophenol	1.165	0.050	50.00	48.69	2.6	40.0	PASS	PASS
1,3-Dichlorobenzene	1.496	0.050	50.00	49.64	0.7	40.0	PASS	PASS
1,4-Dichlorobenzene	1.512	0.050	50.00	53.02	-6.0	20.0	PASS	PASS
Benzyl alcohol	1.156	0.050	50.00	51.67	-3.3	40.0	PASS	PASS
1,2-Dichlorobenzene	1.467	0.050	50.00	52.18	-4.4	40.0	PASS	PASS
2-Methylphenol	0.976	0.050	50.00	50.03	-0.1	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.385	0.050	50.00	49.25	1.5	40.0	PASS	PASS
3+4-Methylphenol	1.180	0.050	50.00	48.47	3.1	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.758	0.050	50.00	53.12	-6.2	40.0	PASS	PASS
Hexachloroethane	4.882	0.050	50.00	52.70	-5.4	40.0	PASS	PASS
Nitrobenzene-d5	0.290	0.050	50.00	47.00	6.0	40.0	PASS	PASS
Nitrobenzene	0.304	0.050	50.00	47.84	4.3	40.0	PASS	PASS
Isophorone	0.619	0.050	50.00	52.86	-5.7	40.0	PASS	PASS
2-Nitrophenol	0.301	0.050	50.00	48.51	3.0	20.0	PASS	PASS
2,4-Dimethylphenol	0.350	0.050	50.00	47.95	4.1	40.0	PASS	PASS
Benzoic acid	2.501	0.050	50.00	56.95	-13.9	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.383	0.050	50.00	52.89	-5.8	40.0	PASS	PASS
2,4-Dichlorophenol	0.336	0.050	50.00	47.54	4.9	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.321	0.050	50.00	49.16	1.7	40.0	PASS	PASS
Naphthalene	0.826	0.050	50.00	49.75	0.5	40.0	PASS	PASS
4-Chloroaniline	0.375	0.050	50.00	48.43	3.1	40.0	PASS	PASS
Hexachlorobutadiene	0.654	0.050	50.00	49.17	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.437	0.050	50.00	52.12	-4.2	20.0	PASS	PASS
2-Methylnaphthalene	0.253	0.050	50.00	50.15	-0.3	40.0	PASS	PASS
1-Methylnaphthalene	0.248	0.050	50.00	48.32	3.4	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.449	0.050	50.00	44.80	10.4	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.340	0.050	50.00	47.47	5.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.319	0.050	50.00	47.99	4.0	40.0	PASS	PASS
2-Fluorobiphenyl	1.502	0.050	50.00	48.95	2.1	40.0	PASS	PASS

JLM 7/22/14

TX 7.22.14

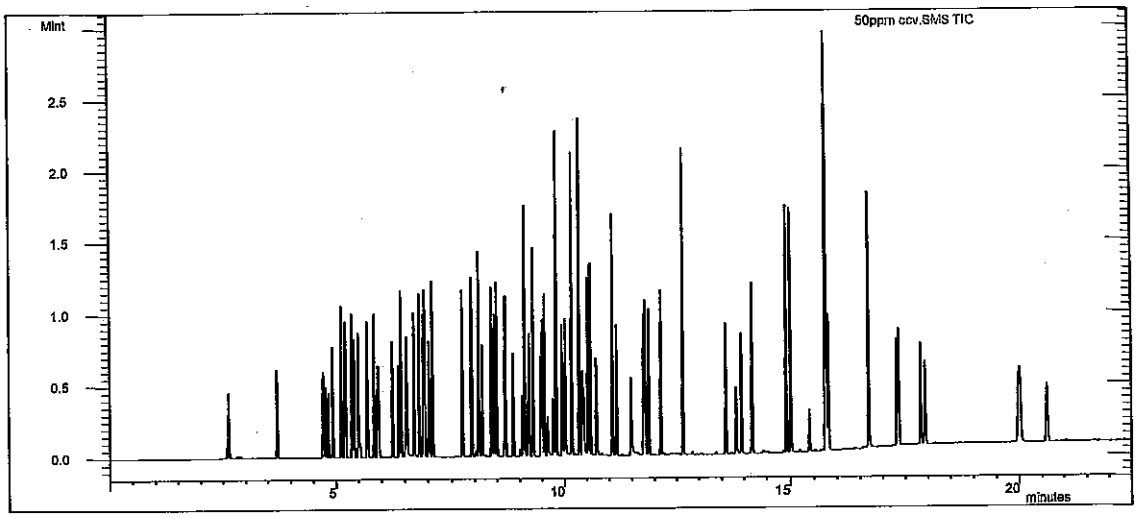
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.573	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
2-Nitroaniline	1.076	0.050	50.00	48.24	3.5	40.0	PASS	PASS
Dimethyl phthalate	3.052	0.050	50.00	53.03	-6.1	40.0	PASS	PASS
2,6-Dinitrotoluene	0.687	0.050	50.00	49.79	0.4	40.0	PASS	PASS
Acenaphthylene	1.898	0.050	50.00	48.70	2.6	40.0	PASS	PASS
3-Nitroaniline	1.059	0.050	50.00	48.67	2.7	40.0	PASS	PASS
Acenaphthene	1.225	0.050	50.00	48.46	3.1	20.0	PASS	PASS
2,4-Dinitrophenol	2.429	0.050	50.00	58.26	-16.5	40.0	PASS	PASS
4-Nitrophenol	0.195	0.050	50.00	50.44	-0.9	40.0	PASS	PASS
Dibenzofuran	0.832	0.050	50.00	45.24	9.5	40.0	PASS	PASS
2,4-Dinitrotoluene	0.352	0.050	50.00	47.63	4.7	40.0	PASS	PASS
Diethyl phthalate	2.456	0.050	50.00	48.74	2.5	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.777	0.050	50.00	46.71	6.6	40.0	PASS	PASS
Fluorene	2.501	0.050	50.00	48.07	3.9	40.0	PASS	PASS
4-Nitroaniline	1.845	0.050	50.00	47.78	4.4	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.540	0.050	50.00	62.40	-24.8	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.709	0.050	50.00	53.16	-6.3	20.0	PASS	PASS
Azobenzene	1.019	0.050	50.00	54.34	-8.7	40.0	PASS	PASS
2,4,6-Tribromophenol	1.808	0.050	50.00	54.52	-9.0	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.539	0.050	50.00	52.79	-5.6	40.0	PASS	PASS
Hexachlorobenzene	0.571	0.050	50.00	51.65	-3.3	40.0	PASS	PASS
Pentachlorophenol	1.567	0.050	50.00	55.04	-10.1	20.0	PASS	PASS
Phenanthrene	1.024	0.050	50.00	53.26	-6.5	40.0	PASS	PASS
Anthracene	1.049	0.050	50.00	53.85	-7.7	40.0	PASS	PASS
Carbazole	0.941	0.050	50.00	49.57	0.9	40.0	PASS	PASS
Di-n-butyl phthalate	2.055	0.050	50.00	51.15	-2.3	40.0	PASS	PASS
Fluoranthene	0.904	0.050	50.00	48.53	2.9	20.0	PASS	PASS
Benzidine	0.430	0.050	50.00	39.10	21.8	40.0	PASS	PASS
Pyrene	0.810	0.050	50.00	48.71	2.6	40.0	PASS	PASS
4-Terphenyl-d14	1.171	0.050	50.00	48.83	2.3	40.0	PASS	PASS
Butyl benzyl phthalate	0.963	0.050	50.00	50.79	-1.6	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.938	0.050	50.00	50.13	-0.3	40.0	PASS	PASS
Benz[a]anthracene	1.550	0.050	50.00	42.96	14.1	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.998	0.050	50.00	42.08	15.8	40.0	PASS	PASS
Chrysene	1.822	0.050	50.00	44.18	11.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.480	0.050	50.00	52.07	-4.1	20.0	PASS	PASS
Benzo(b)fluoranthene	1.427	0.050	50.00	49.35	1.3	40.0	PASS	PASS
Benzo[k]fluoranthene	1.442	0.050	50.00	49.65	0.7	40.0	PASS	PASS
Benzo[a]pyrene	1.331	0.050	50.00	48.71	2.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.853	0.050	50.00	49.03	1.9	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.711	0.050	50.00	48.97	2.1	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.791	0.050	50.00	46.66	6.7	40.0	PASS	PASS

dkm 7/22/14

JC 7.22.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	7/21/2014 10:29:25 AM
Calculation Date:	7/21/2014 10:51:55 AM				



dlm 7/22/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.185	426	Identified	178905	40.000
Naphthalene-d8 (I.S)	6.911	603	Identified	633876	40.000
Acenaphthene-d10 (I.S)	9.511	868	Identified	300480	40.000
Phenanthrene-d10	11.760	1101	Identified	546081	40.000
Chrysene-d12 I.S	15.781	1520	Identified	610021	40.000
Perylene-d12 I.S	17.936	1742	Identified	783505	40.000
N-nitrosodimethylamine	2.594	163	Identified	726224	53.472
Pyridine	2.639	168	Identified	2.125E6	52.080
2-Fluorophenol	3.711	276	Identified	249403	48.609
Phenol-d5	4.717	378	Identified	245084	50.191
Phenol	4.733	380	Identified	266938	48.667
Aniline	4.786	385	Identified	779414	42.572
Bis(2-chloroethyl)ether	4.840	391	Identified	445692	49.634
2-Chlorophenol	4.929	400	Identified	260507	48.688
1,3-Dichlorobenzene	5.116	419	Identified	334442	49.641
1,4-Dichlorobenzene	5.208	428	Identified	338103	53.019
Benzyl alcohol	5.352	443	Identified	258460	51.674
1,2-Dichlorobenzene	5.404	449	Identified	328000	52.184
2-Methylphenol	5.494	458	Identified	218343	50.028
Bis(2-chloroisopropyl)ether	5.510	459	Identified	309762	49.253
3+4-Methylphenol	5.698	478	Identified	263795	48.471
N-Nitrosodi-n-propylamine	5.686	477	Identified	840407	53.125
Hexachloroethane	5.842	493	Identified	1.092E6	52.696
Nitrobenzene-d5	5.916	501	Identified	229861	46.998

7.22.14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.942	503	Identified	240610	47.836
Isophorone	6.247	534	Identified	490395	52.855
2-Nitrophenol	6.376	547	Identified	238700	48.509
2,4-Dimethylphenol	6.425	552	Identified	277235	47.945
Benzoic acid	6.536	564	Identified	1.982E6	56.945
Bis(2-chloroethoxy)methane	6.550	565	Identified	303407	52.886
2,4-Dichlorophenol	6.713	582	Identified	266211	47.536
1,2,4-Trichlorobenzene	6.827	594	Identified	254736	49.161
Naphthalene	6.941	606	Identified	654527	49.749
4-Chloroaniline	7.030	615	Identified	296771	48.434
Hexachlorobutadiene	7.101	622	Identified	518107	49.173
4-Chloro-3-methylphenol	7.746	687	Identified	346163	52.123
2-Methylnaphthalene	7.947	708	Identified	200085	50.152
1-Methylnaphthalene	8.095	723	Failed	196363	48.323
Hexachlorocyclopentadiene	8.172	731	Identified	355845	44.796
2,4,6-Trichlorophenol	8.379	752	Identified	127820	47.469
2,4,5-Trichlorophenol	8.436	758	Identified	119804	47.994
2-Fluorobiphenyl	8.494	764	Identified	564037	48.950
2-Chloronaphthalene	8.676	783	Identified	590996	50.273
2-Nitroaniline	8.855	801	Identified	404183	48.244
Dimethyl phthalate	9.110	827	Identified	1.146E6	53.029
2,6-Dinitrotoluene	9.215	838	Identified	258112	49.790
Acenaphthylene	9.300	846	Identified	712800	48.699
3-Nitroaniline	9.476	864	Identified	397938	48.671
Acenaphthene	9.561	873	Identified	459927	48.465
2,4-Dinitrophenol	9.626	880	Identified	912249	58.261
4-Nitrophenol	9.760	894	Identified	73225	50.444
Dibenzofuran	9.819	900	Identified	312341	45.242
2,4-Dinitrotoluene	9.820	900	Identified	132025	47.631
Diethyl phthalate	10.168	936	Identified	922605	48.738
4-Chlorophenyl phenyl ether	10.337	954	Identified	292028	46.705
Fluorene	10.338	954	Identified	939414	48.067
4-Nitroaniline	10.403	960	Identified	692889	47.776
4,6-Dinitro-2-methylphenol	10.435	964	Identified	1.051E6	62.404
N-Nitrosodiphenylamine	10.526	973	Identified	484226	53.159
Azobenzene	10.578	979	Identified	695374	54.342
2,4,6-Tribromophenol	10.712	992	Identified	1.234E6	54.520
4-Bromophenyl phenyl ether	11.077	1030	Identified	367761	52.792
Hexachlorobenzene	11.166	1039	Identified	389542	51.648
Pentachlorophenol	11.482	1071	Identified	1.070E6	55.037
Phenanthrene	11.795	1104	Identified	699150	53.261
Anthracene	11.872	1113	Identified	715814	53.846
Carbazole	12.138	1140	Identified	642190	49.573
Di-n-butyl phthalate	12.639	1192	Identified	1.403E6	51.155
Fluoranthene	13.603	1291	Identified	617066	48.526
Benzidine	13.837	1316	Identified	327530	39.103
Pyrene	13.950	1327	Identified	617653	48.710
4-Terphenyl-d14	14.185	1352	Identified	892561	48.826
Butyl benzyl phthalate	14.926	1430	Identified	734461	50.794
3,3'-Dichlorobenzidine	15.750	1517	Identified	1.478E6	50.127

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.765	1518	Identified	1.182E6	42.963
Bis(2-ethylhexyl)phthalate	15.765	1518	Identified	761292	42.084
Chrysene	15.820	1524	Identified	1.390E6	44.178
Di-n-octyl phthalate	16.697	1616	Identified	1.891E6	52.074
Benzo(b)fluoranthene	17.321	1680	Identified	1.398E6	49.347
Benzo[k]fluoranthene	17.359	1684	Identified	1.412E6	49.646
Benzo[a]pyrene	17.841	1733	Identified	1.303E6	48.709
Indeno[1,2,3-cd]pyrene	19.986	1951	Identified	835124	49.031
Dibenz[a,h]anthracene	20.023	1955	Identified	696728	48.969
Benzo[g,h,i]perylene	20.616	2015	Identified	775070	46.660

```
**********************************************************
Revision Log
**********************************************************

7/21/2014 10:51 AM: Processed as Analysis sample using method:
    'C:\VarianWS\Methods\8270 042514.mth'
```

an Star Workstation - 8400 SampleList Mon Apr 28 10:41:20 2014

leList: C:\VarianWS\042514crv.smp

ted: Fri Apr 25 09:05:43 2014
fied: Fri Apr 25 15:09:46 2014

****

ine	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam 4/28/14

TV 4.28.14

ectory for Data Files: C:\VarianWS\data

Data File Names: %s

ate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: [signature] and [signature].

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☑	☐	☐	☑	
Diethyl phthalate	☑	☐	☐	☑	
4-Chlorophenyl phenyl ether	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
4-Nitroaniline	☑	☐	☐	☑	
4,6-Dinitro-2-methylphenol	☑	☐	☐	☑	
N-Nitrosodiphenylamine	☑	☐	☐	☑	
Azobenzene	☑	☐	☐	☑	
2,4,6-Tribromophenol	N/A	N/A	☐	☐	
4-Bromophenyl phenyl ether	☑	☐	☐	☑	
Hexachlorobenzene	☑	☐	☐	☑	
Pentachlorophenol	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Carbazole	☑	☐	☐	☑	
Di-n-butyl phthalate	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Benzidine	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
4-Terphenyl-d14	N/A	N/A	☐	☑	
Butyl benzyl phthalate	☑	☐	☐	☑	
3,3'-Dichlorobenzidine	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Bis(2-ethylhexyl)phthalate	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Di-n-octyl phthalate	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: [signature] 4/28/14

QA: [signature] 4.28.14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

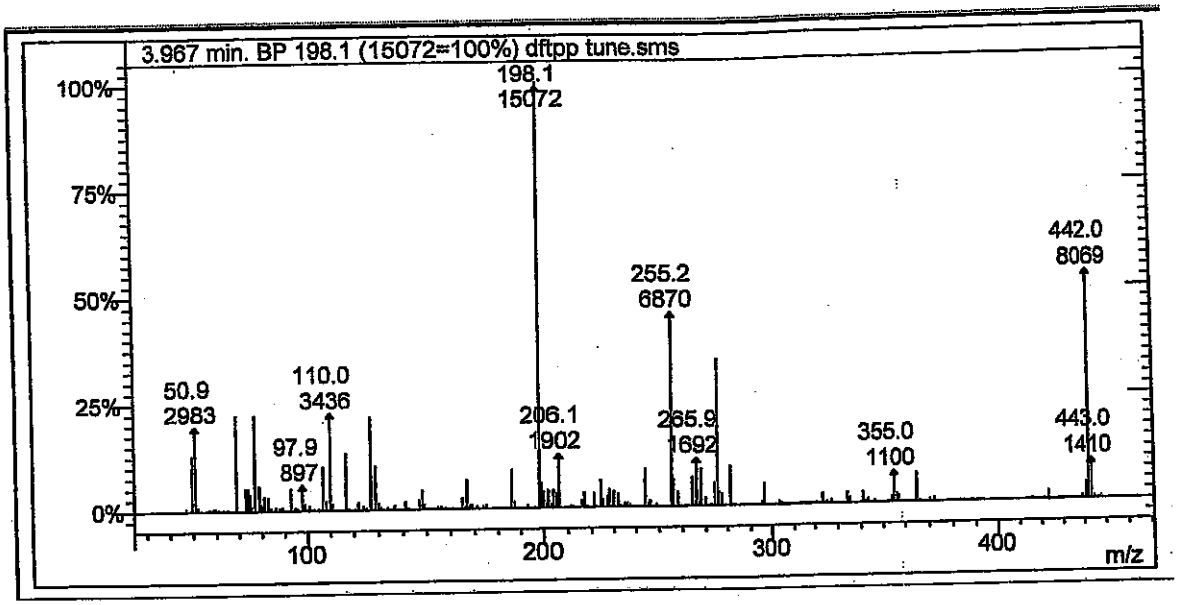
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

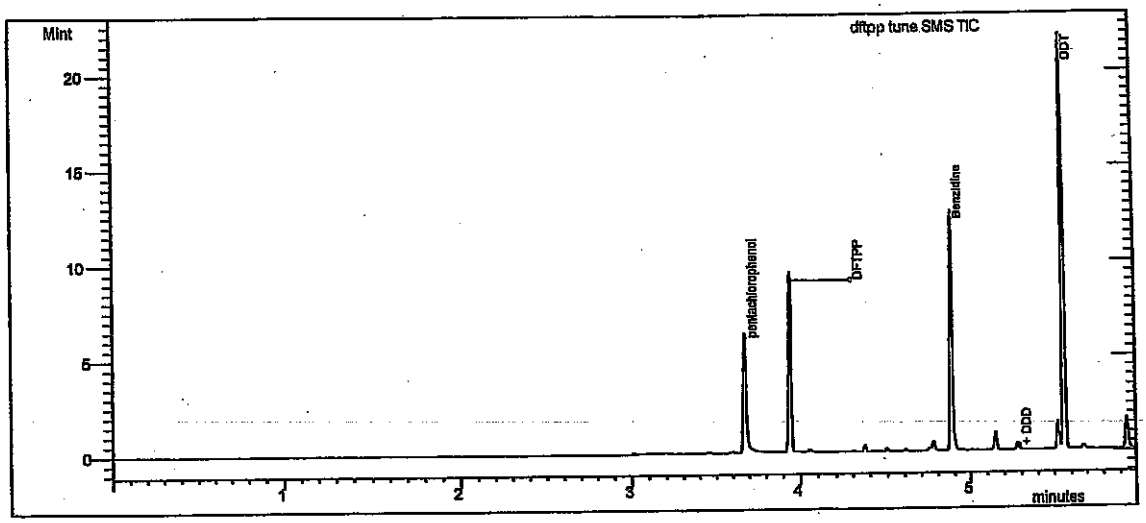
4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

% Degradation of **DDT : =** .509 ✓ dam 4/28/14

TC 4-28-14

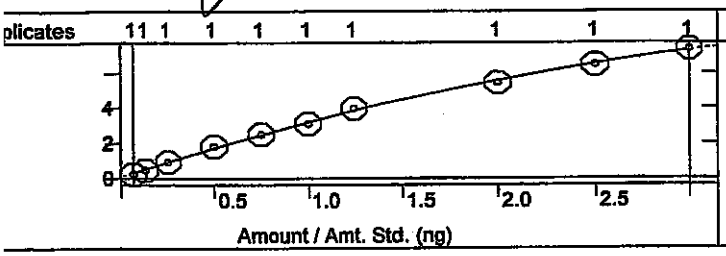
alibration Curves Report

V JAH 4/28/14

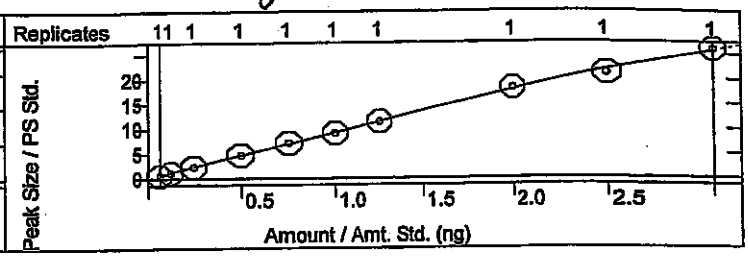
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

D 4-28-14

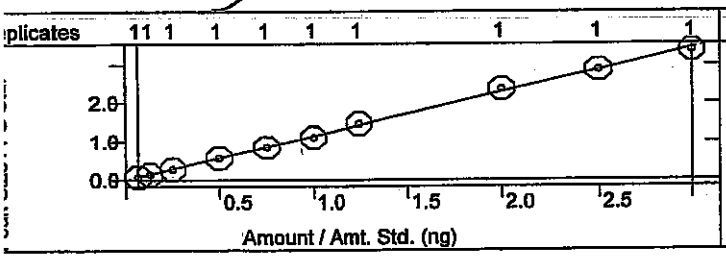
-nitrosodimethylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
= -0.3412x2 +3.4265x +0.0884



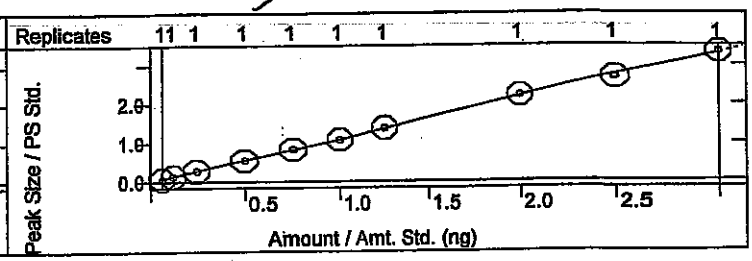
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



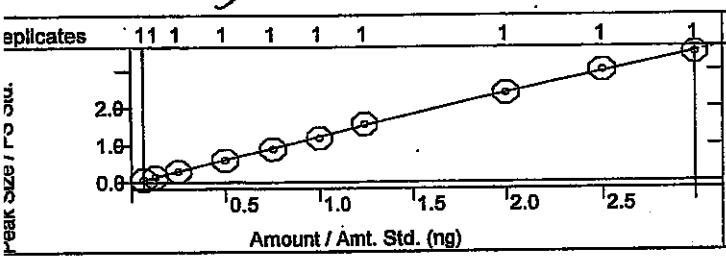
-Fluorophenol
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
= +1.1454x +0.0021



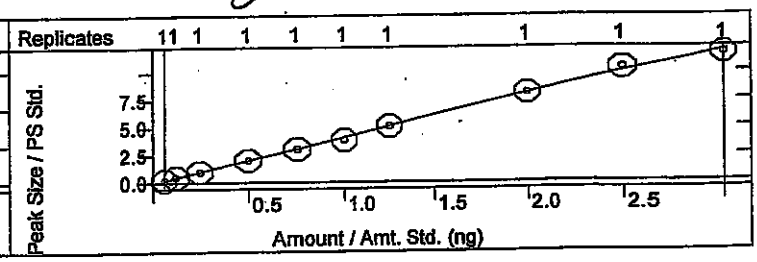
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



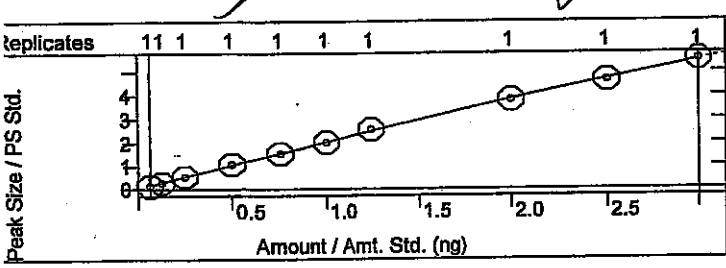
henol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
= -0.0409x2 +1.2967x -0.0251



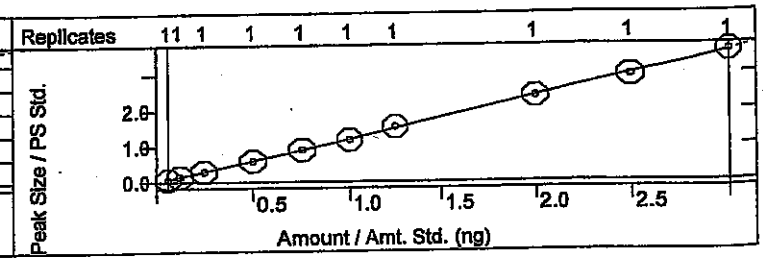
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021

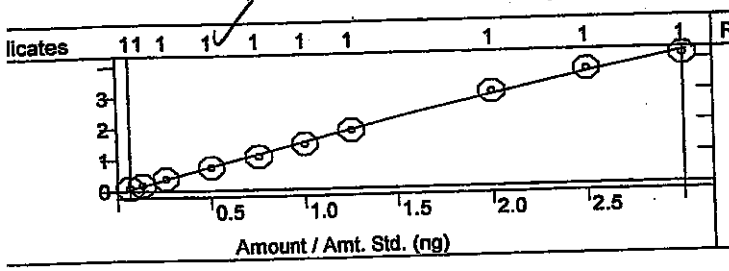


Date: 25 Apr 2014

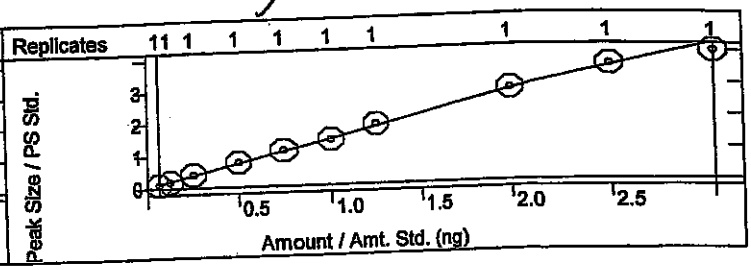
libration Curves Report

hod:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
alc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

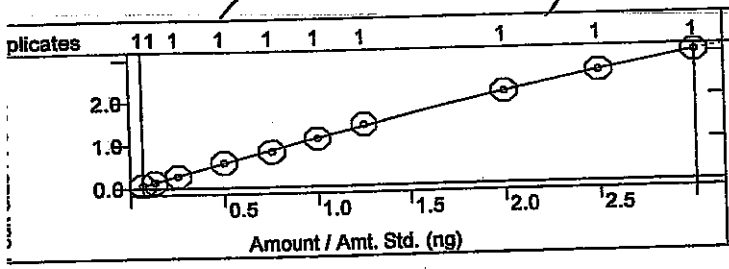
-Dichlorobenzene
rve Fit: Quadratic, Origin: Ignore, Weight: None
sp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
: -0.0693x2 +1.6278x -0.0442



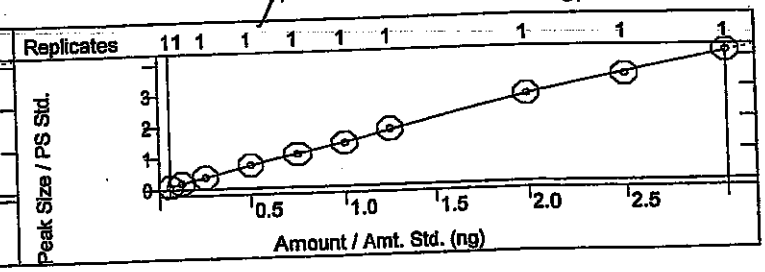
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



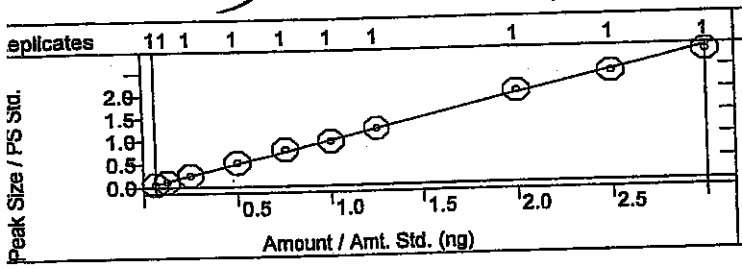
enzyl alcohol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
= -0.0661x2 +1.2165x -0.0165



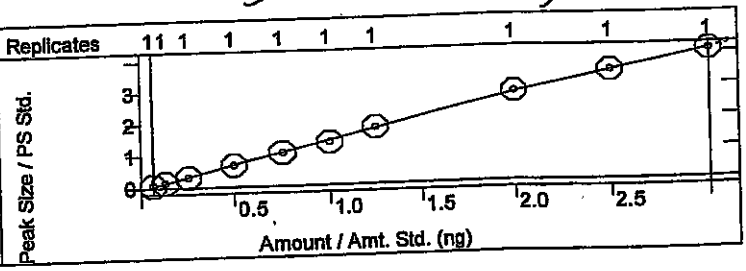
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



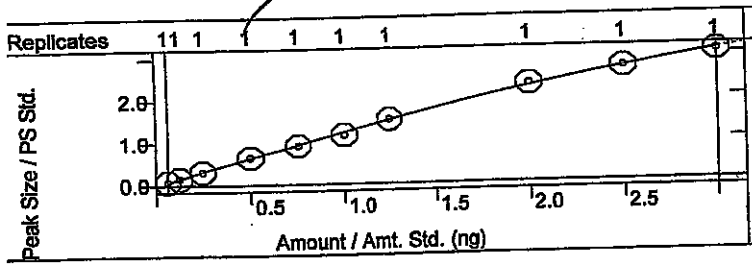
-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
/ = +0.9716x +0.0052



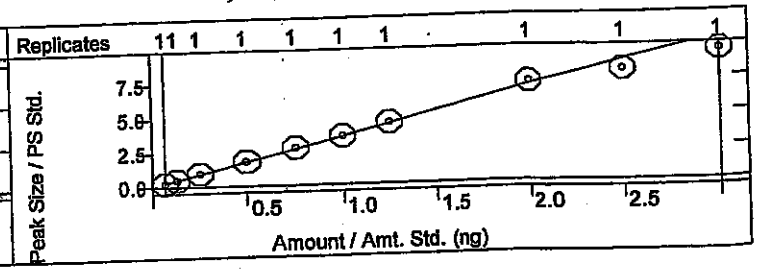
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



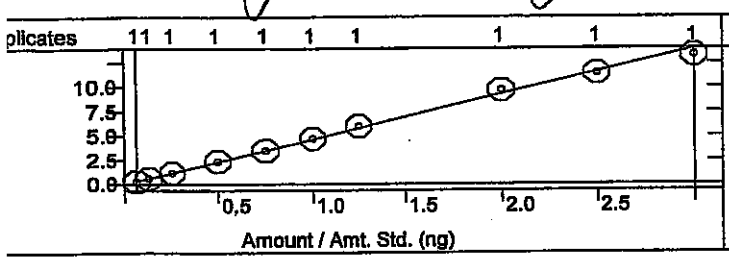
alibration Curves Report

JDan 4/28/14

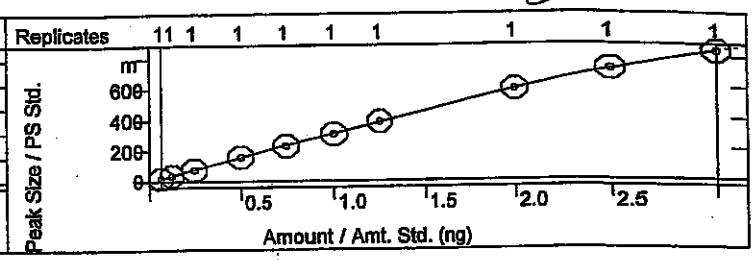
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4.28.14

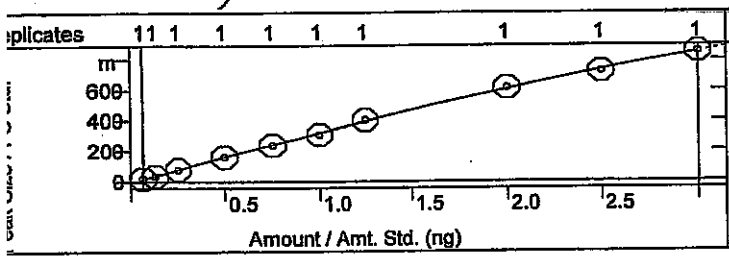
exachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
= +4.6167x +0.0205



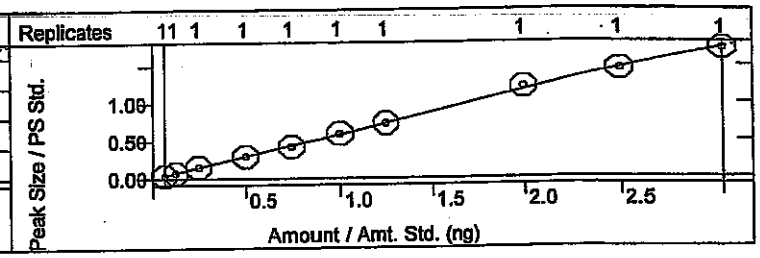
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



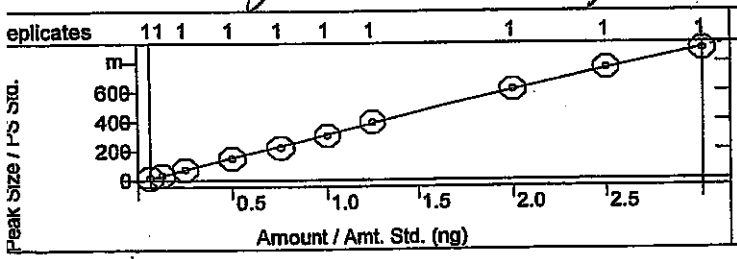
itrobenzene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
= -0.0200x2 +0.3461x -0.0058



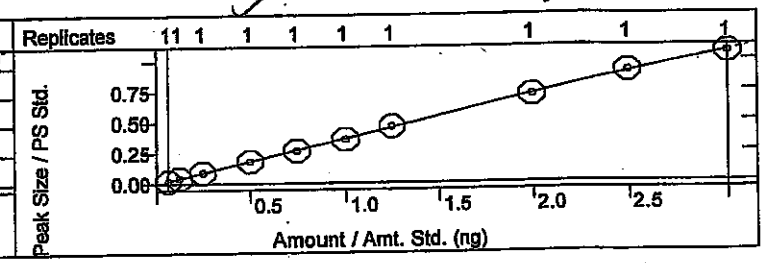
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



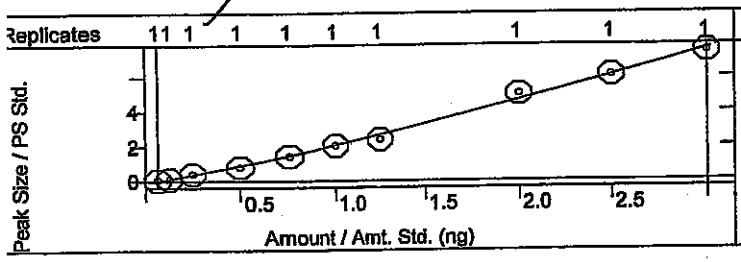
-Nitrophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
= -0.0089x2 +0.3282x -0.0083



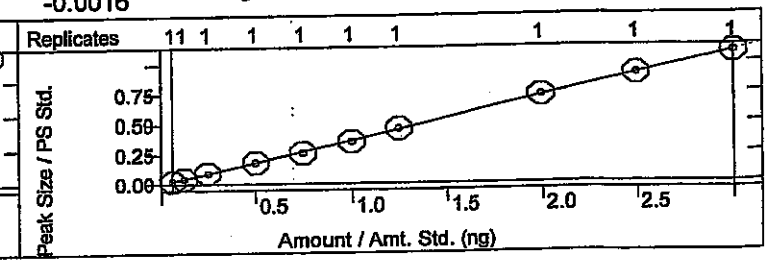
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



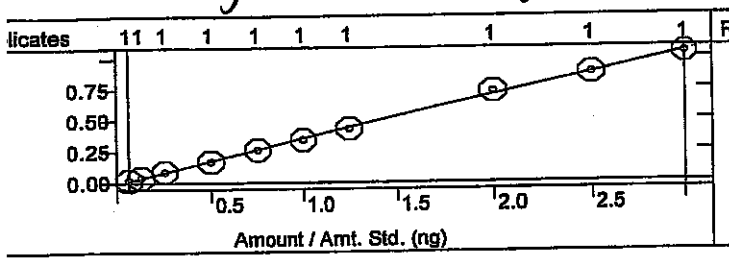
alibration Curves Report

√ dlm 4/28/14

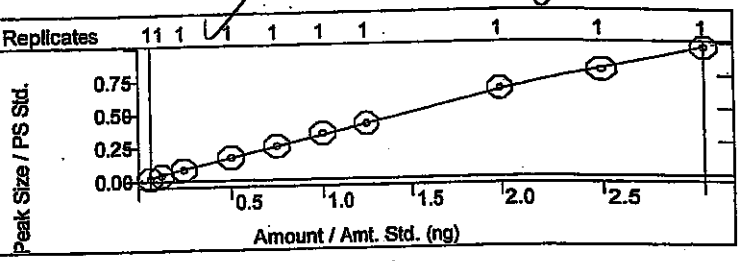
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

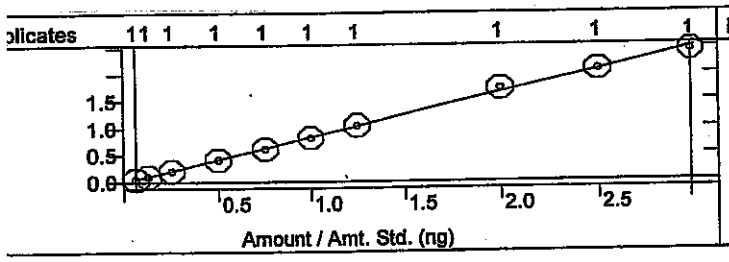
l-Dichlorophenol
irve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
= -0.0055x2 +0.3668x -0.0082



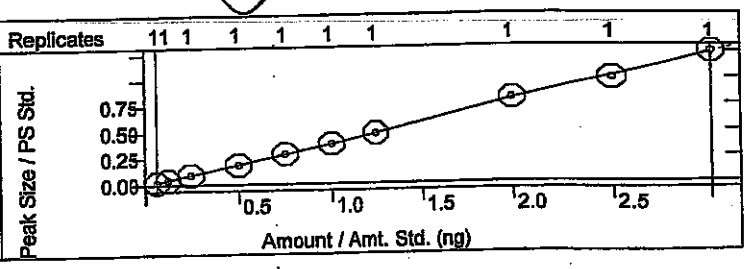
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



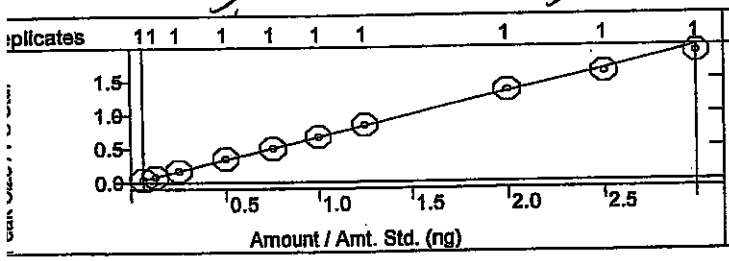
aphthalene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
= +0.8263x +0.0048



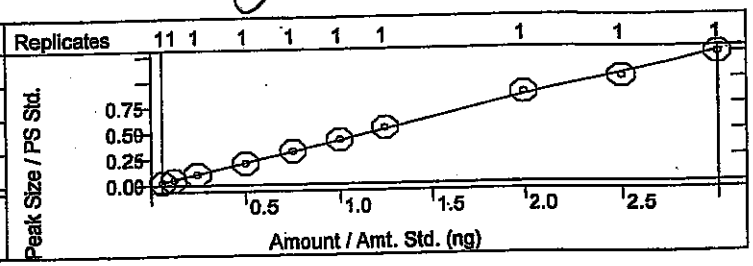
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



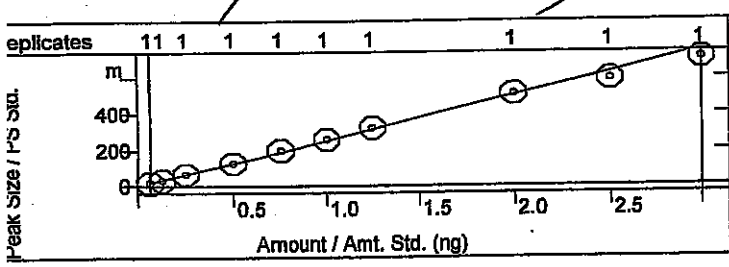
lexachlorobutadiene
urve Fit: Linear, Origin: Ignore, Weight: 1/X2
esp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
= +0.6599x +0.0061



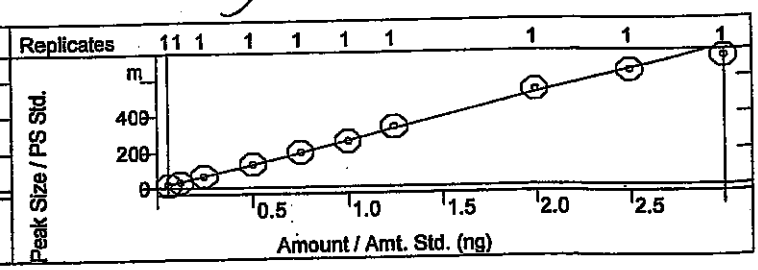
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



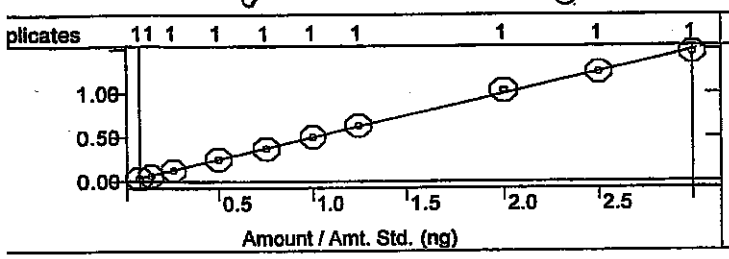
alibration Curves Report

dlm 4/28/14

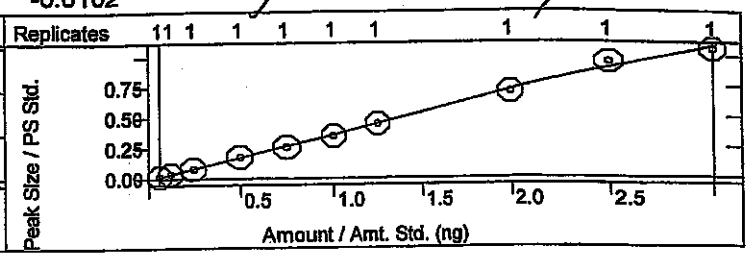
ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

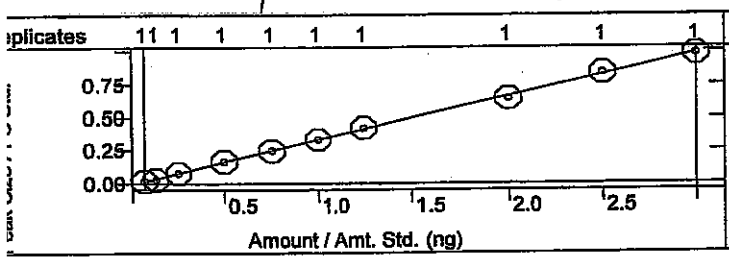
exachlorocyclopentadiene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
= +0.4936x +0.0086



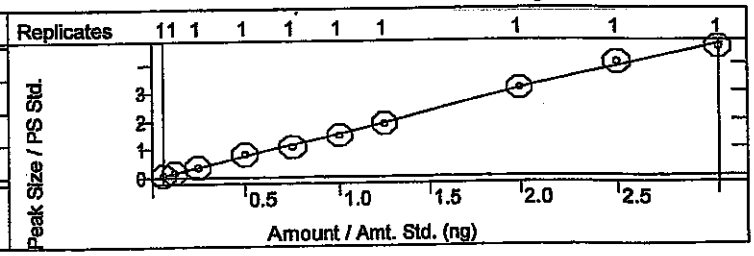
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



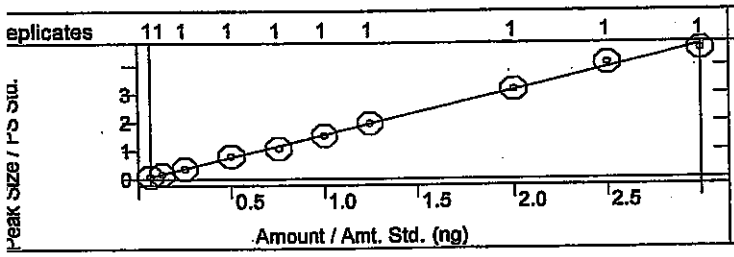
,4,5-Trichlorophenol
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
= -0.0042x2 +0.3430x -0.0068



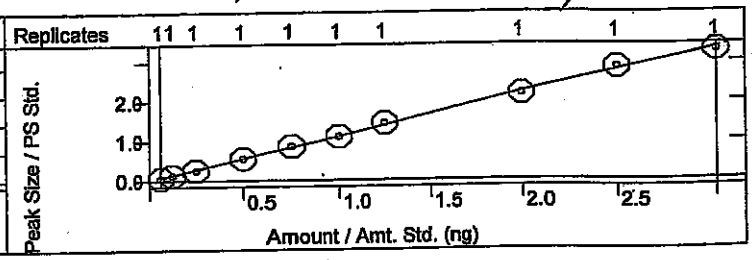
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



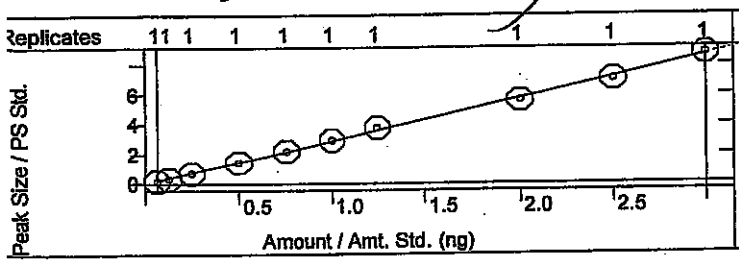
-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
= +1.5769x -0.0150



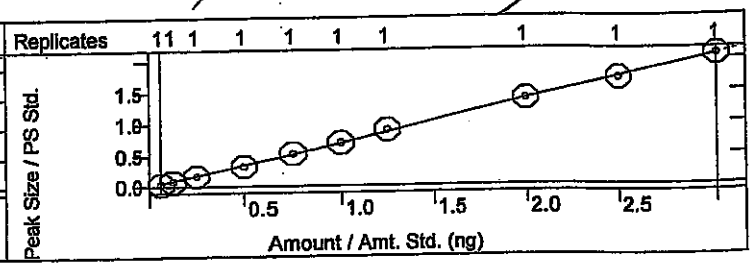
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



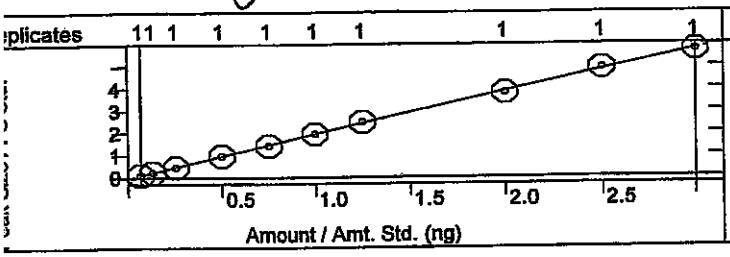
Calibration Curves Report

✓ dm 4/28/14

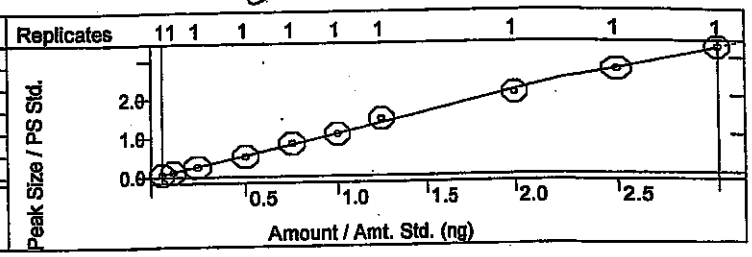
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

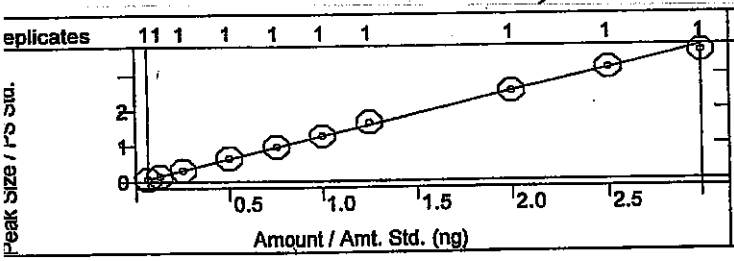
cenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
= -0.0224x2 +2.0006x -0.0303



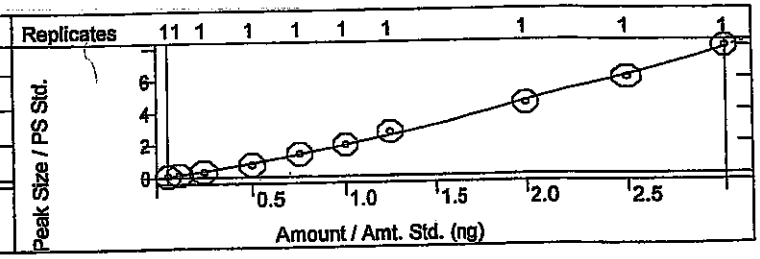
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



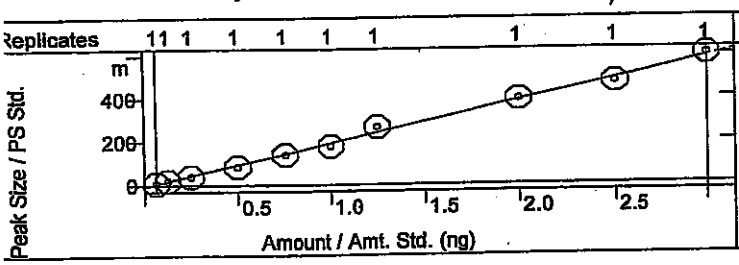
Acenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
= +1.2637x -5.2278e-4



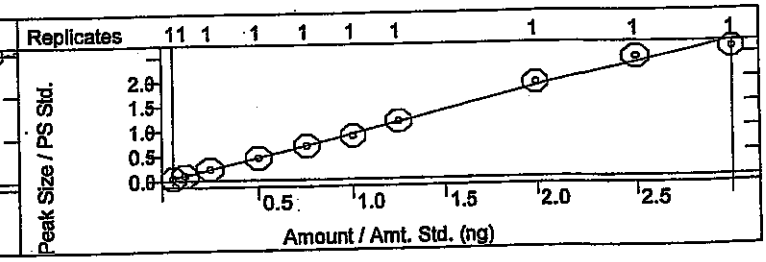
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



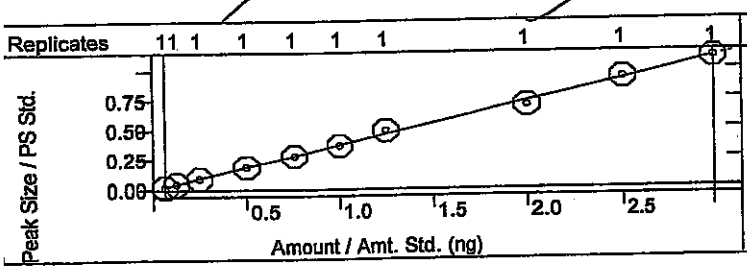
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



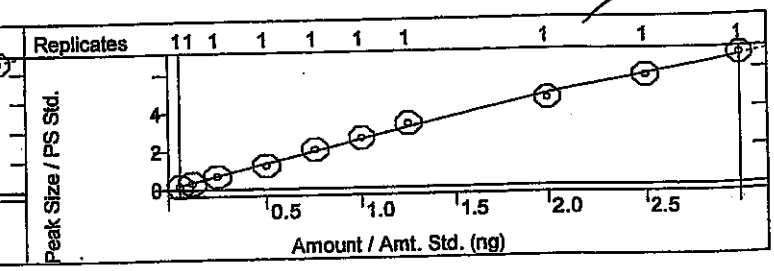
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



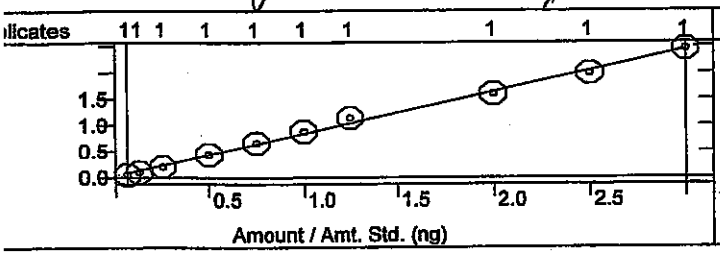
alibration Curves Report

J MM 7/28/14

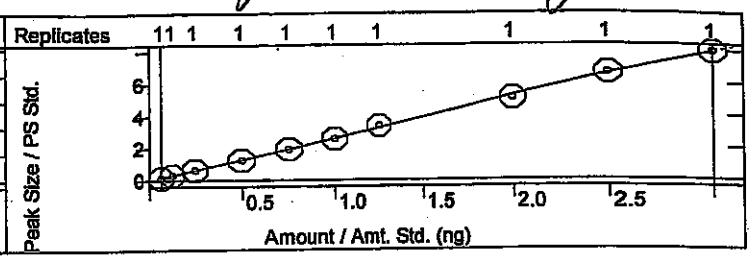
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
3 Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4.28.14

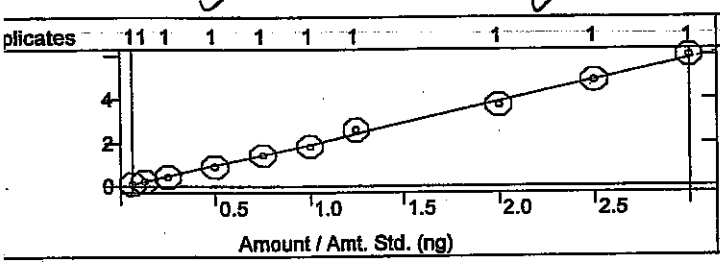
Chlorophenyl phenyl ether
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
= +0.8008x +0.0369



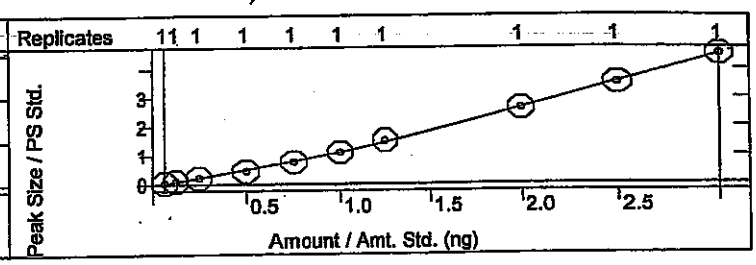
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



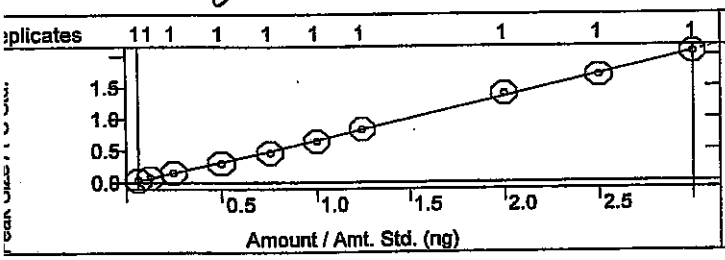
Nitroaniline
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
= +1.9592x -0.0342



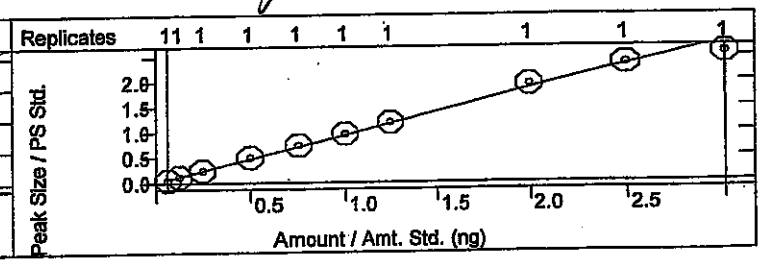
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



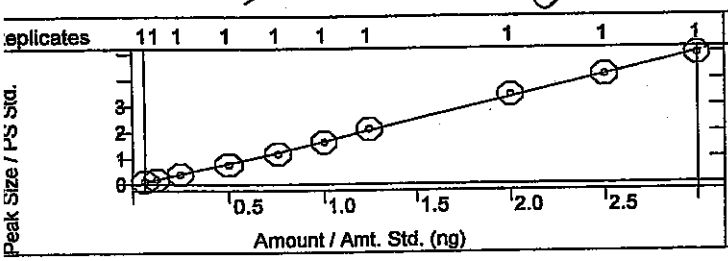
l-Nitrosodiphenylamine
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
= +0.0060x2 +0.6726x -0.0178



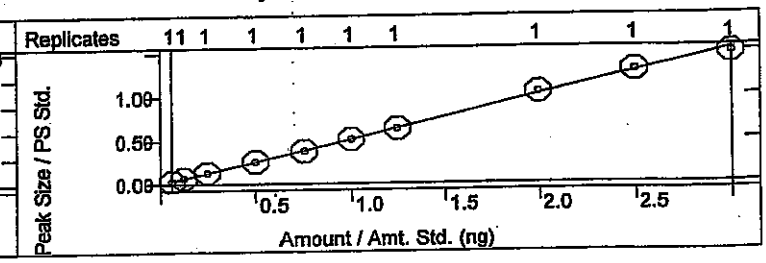
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



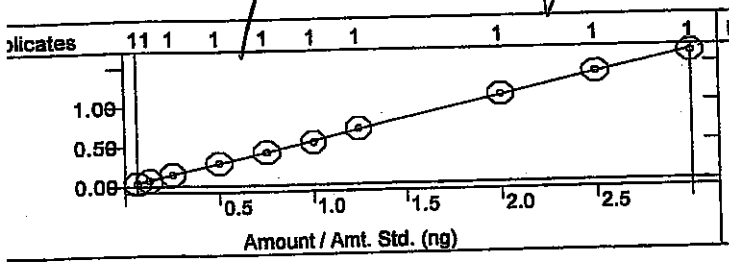
alibration Curves Report

JV dsm 4/28/14

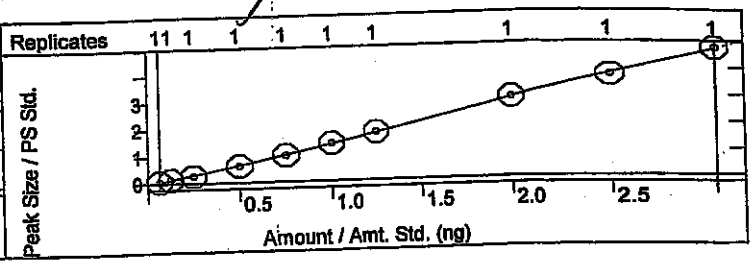
thod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
mple List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-24-14

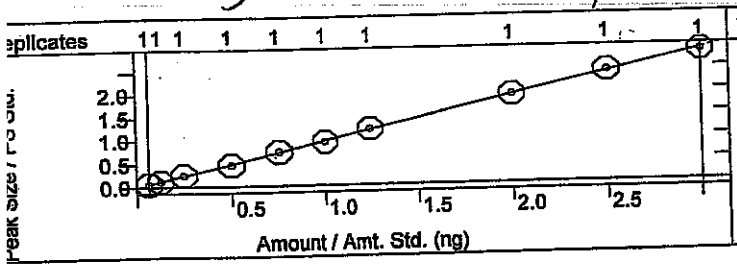
exachlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: None
esp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
= +0.5470x +0.0070



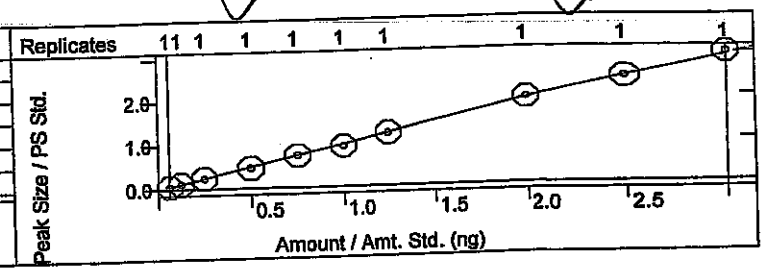
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



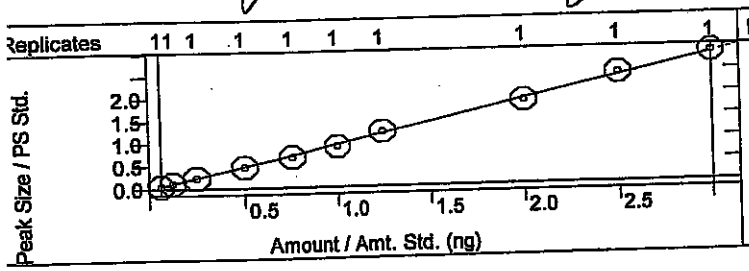
henanthrene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
= +0.9606x +0.0012



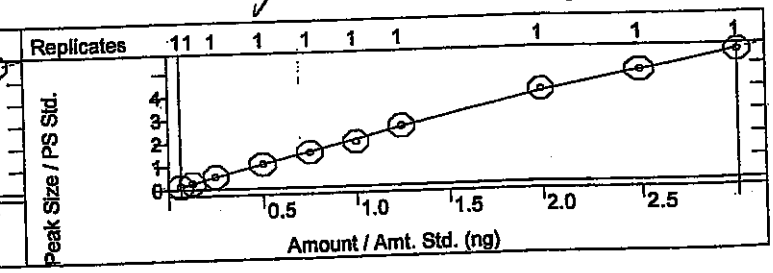
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



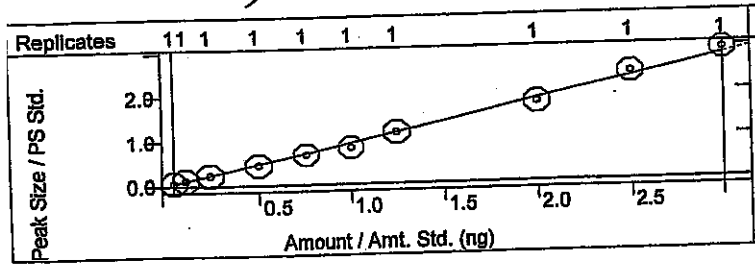
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



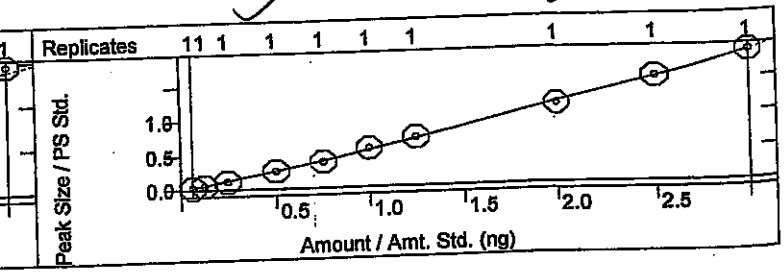
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5282x -0.0098

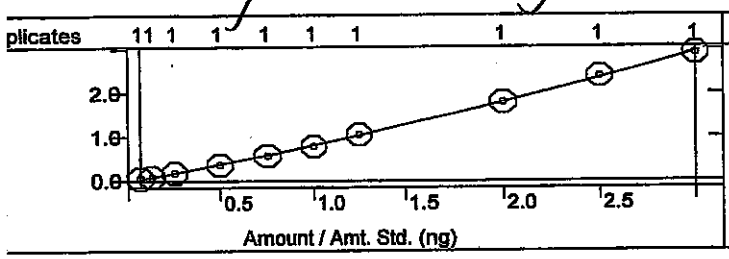


alibration Curves Report

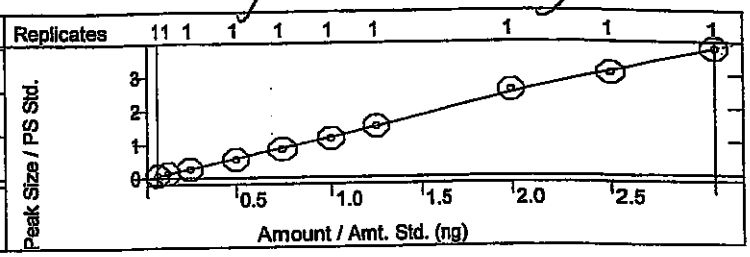
J dlm 4/28/14

ethod:	c:\varianws\methods\8270 042514.mth		
calc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

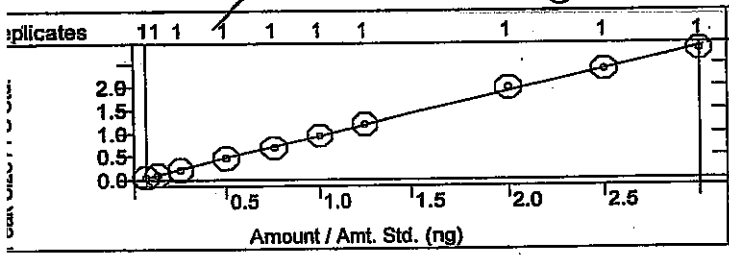
yrene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
= +0.0803x2 +0.7448x -0.0135



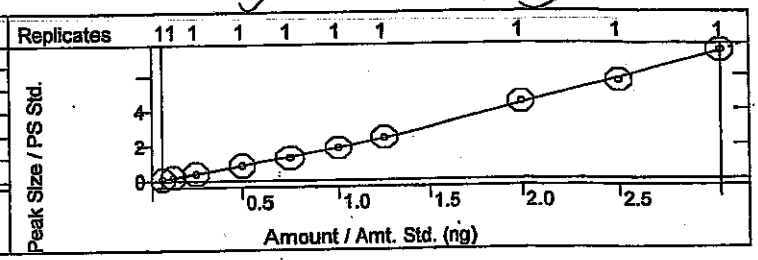
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



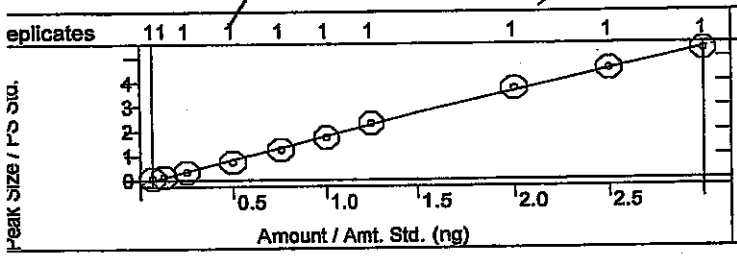
utyl benzyl phthalate
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
= +0.9570x -0.0113



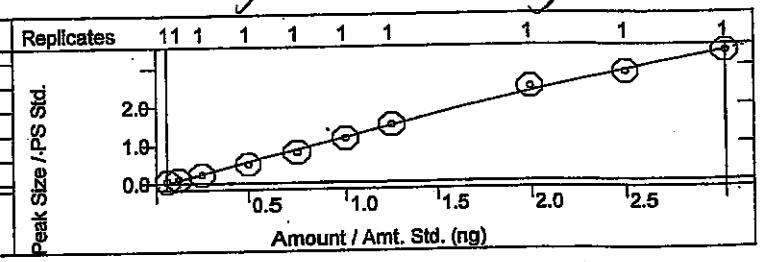
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



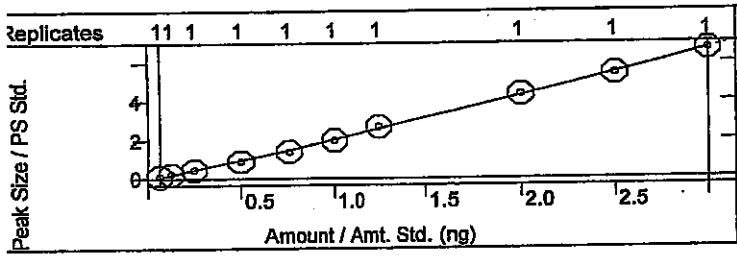
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9868x -0.1374



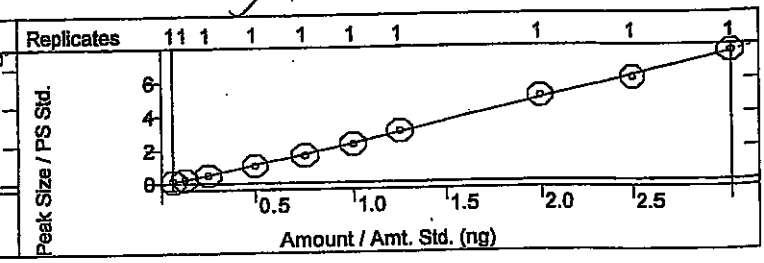
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



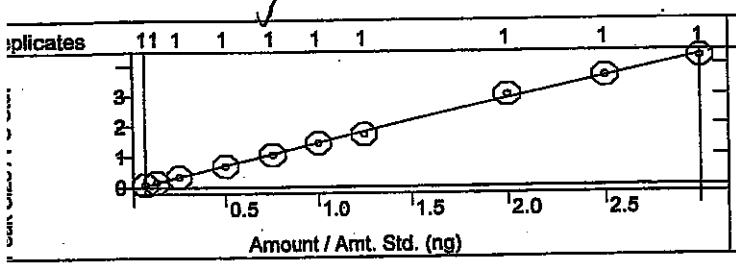
alibration Curves Report

/ dmh 4/28/14

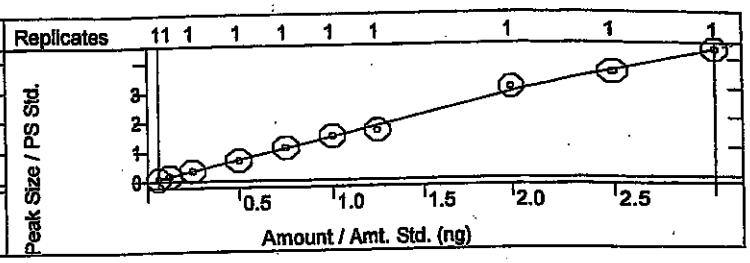
ethod:	c:\varianws\methods\8270 042514.mth		
ecalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
ample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
equence:	N/A	Detector:	2000 Mass Spec
IS Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 4-28-14

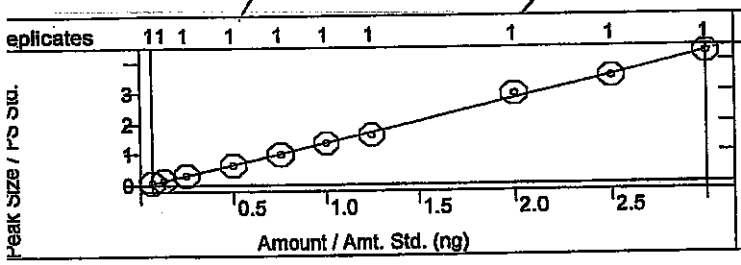
enzo(b)fluoranthene
urve Fit: Quadratic, Origin: Ignore, Weight: None
esp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
= -0.0187x2 +1.5058x -0.0450



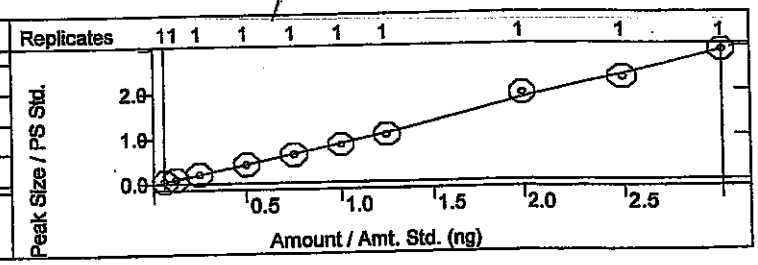
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



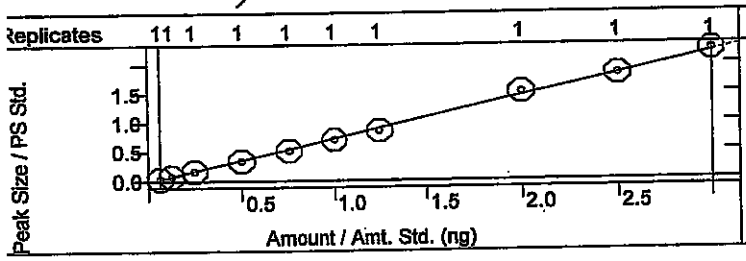
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
= +0.0286x2 +1.3562x -0.0307



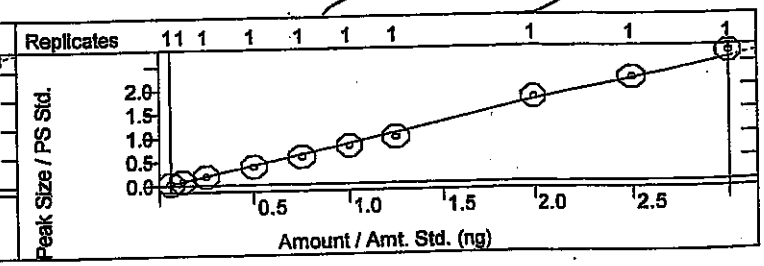
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dam 4/28/14

JU 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dam 4/28/14

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.676	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dam 4/28

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28/14

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dam 4/28

JV 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC	RRF9	RRF10
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS	0.554	0.544
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS	1.518	1.593
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS	0.972	0.953
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS	0.975	1.000
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS	0.979	0.962
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS	1.906	1.853
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9986	0.907	5.0	PASS	PASS	0.975	0.976
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS	0.612	0.627
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS	0.959	0.971
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS	1.228	1.265
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS	0.951	0.938
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS	2.262	2.483
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS	1.811	1.768

dah 4/28

50ppm crv.SMS

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dkm 4/28/

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

4/28/14

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-24-14

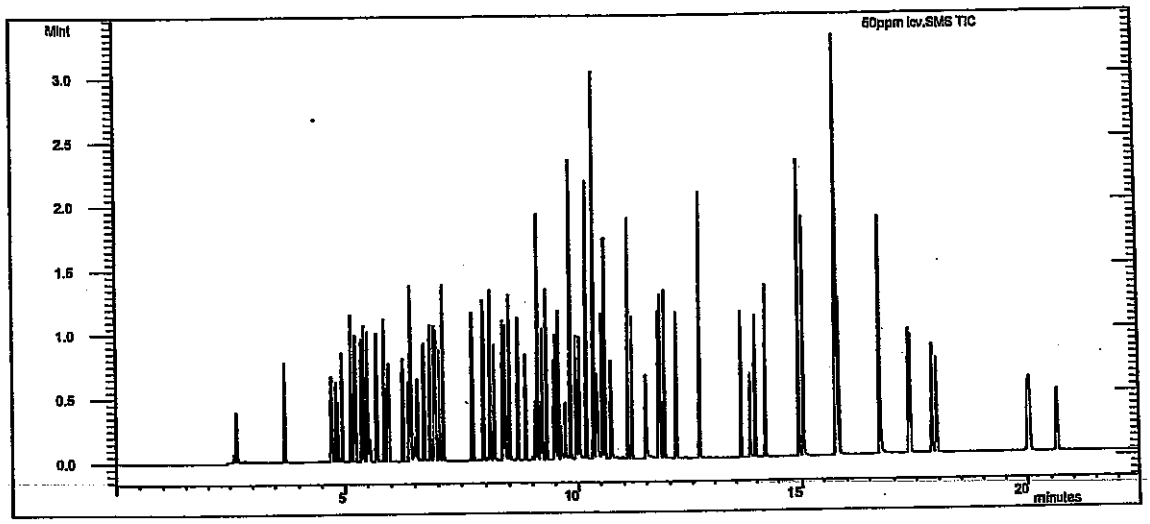
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-28-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

08/1/22/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: 1407901
Date Reported:

LQ

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407901

Lab ID: 1407901-001 **Collection Date:** 7/18/2014 9:52:00 AM
Client Sample ID: FFOR-CF-0028 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	2.0 ✓	0.26		mg/Kg-dry	1	14317	7/21/2014 2:48:51 PM

Lab ID: 1407901-002 **Collection Date:** 7/18/2014 10:01:00 AM
Client Sample ID: FFOR-CF-0029 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	3.6 ✓	0.27		mg/Kg-dry	1	14317	7/21/2014 2:52:44 PM

Lab ID: 1407901-003 **Collection Date:** 7/18/2014 10:12:00 AM
Client Sample ID: FFOR-CF-0030 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	2.3 ✓	0.27		mg/Kg-dry	1	14317	7/21/2014 2:54:03 PM

Lab ID: 1407901-004 **Collection Date:** 7/18/2014 12:09:00 PM
Client Sample ID: FFOR-CF-0031 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/23/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: JLF
Lead	5.2 ✓	0.57		mg/Kg-dry	2	14317	7/21/2014 3:01:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Analyst/Date: EC 7/19/14
QA'd/Date: DD 7/22/14

PREP BATCH REPORT

Prep Start Date: **7/19/2014 11:46:47**
Prep End Date:

Prep Batch ID: **14317** Prep Code: **3050** Method No: **3050** Technician: **Eric Suina**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14317					1.0349	0	0	50	50.000	7/19/2014	
LCS-14317					1.0313	0	0	50	50.000	7/19/2014	
1407901-001A	FFOR-CF-0028	MeOH (Soil)			1.0329	0	0	50	50.000	7/19/2014	
1407901-001AMS		MeOH (Soil)			1.0141	0	0	50	50.000	7/19/2014	
1407901-001AMSD		MeOH (Soil)			1.0076	0	0	50	50.000	7/19/2014	
1407901-002A	FFOR-CF-0029	MeOH (Soil)			1.0092	0	0	50	50.000	7/19/2014	
1407901-003A	FFOR-CF-0030	MeOH (Soil)			1.0043	0	0	50	50.000	7/19/2014	
1407901-004A	FFOR-CF-0031	MeOH (Soil)			1.0012	0	0	50	50.000	7/19/2014	
1407630-001A	ASR	Solid			1.0348	0	0	50	50.000	7/19/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID: 14317	Prep ID:	Prep ID:

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4690	Tubes 1/4		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4665	HNO_3 3/6		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4620	HCl 3/6		HCl /		HCl /
	Filters /		Filters /	4687	Filters 1/2		Filters /		Filters /
				4684	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 - _____ Exp: _____ ST6010 - 14139 Exp: 3/31/15 _____ Exp: _____

ST6020 - _____ Exp: _____ ST6010 - 14161 Exp: 4/30/15 _____ Exp: _____

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☑ Covered

Digestion Block: TAWAH Position: B2

Therm ID: DBT-24 Calibration Exp: 9/27/15

Temp:	CF:	Corr. Temp:
92.8°C	0 °C	= 92.8°C

Analyst: EL Date/Time: 7/19/14 1308

☐ Uncovered ☐ Covered

Digestion Block: Position:

Therm ID: Calibration Exp:

Temp:	CF:	Corr. Temp:
°C	°C	= °C

Analyst: _____ Date/Time: _____

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____
Acceptable range: 0.1225g - 0.1275g

500µL Pipette No.: P30 Wt. DI (g): 0.5043 Rm Temp (°C): 22.6 Analyst: EL
Acceptable range: 0.4900g - 0.5100g

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

☐ Pipette No.: _____ Wt. DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Analyst/Date: EL 7/19/14 QA'd/Date: DS 7/22/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20030

ICP-OES Analysis Summary

Instrument: ICP5

Data Imported By: JMF

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 072114 B14317 **Prep Batch ID:** B14317

Calibration

	Standard ID
ST1	ST6010- 14306
ST2	ST6010- 14307
ST3 (CCV)	ST6010- 14293
ST4	ST6010- 14308

	Standard ID
ST5	ST6010- 14309
ST6	ST6010-
ST7 (CCV CAT)	ST6010- JMF 7/21/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14324
ICV CAT	ST6010- JMF 7/21/14
ICS ELEM	ST6010- 14294
ICS	ST6010- 14295

Internal Standard

Standard ID: ST6010- 14314

2% Nitric Acid

Reagent ID: 1354

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14161	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 10mL	Wt DI (g): 0.1008	Rm Temp (°C): 21.8	Analyst: JMF
Pipette No: P30	Spike Volume: 5mL	Wt DI (g): 0.5015	Rm Temp (°C): 21.8	Analyst: JMF
Pipette No: P35	Spike Volume: 1mL	Wt DI (g): 1.0021	Rm Temp (°C): 21.8	Analyst: JMF
Pipette No:	Spike Volume:	Wt DI (g):	Rm Temp (°C):	Analyst:

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Ba	1407583-002A	2.6849	1.0319	50	10	1300.95	mg/Kg

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result ____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 × CaResult + 4.118 × MgResult = Result ____ mg/L

Analyst/Date: JMF 7/21/14 Qa'd by/Date: DS 7/22/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ____ and ____.

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Analytical Sequence

Method : ISIS 010814 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	101	MB-14317	Analyzed
17	102	LCS-14317	Analyzed
18	103	1407463-001A	Analyzed
19	104	1407901-001A	Analyzed
20	105	1407901-001AMS	Analyzed
21	106	1407901-001AMSD	Analyzed
22	107	1407901-002A	Samp Limit Failed
23	108	1407901-003A	Analyzed
24	109	1407901-004A	IS Check Failed (m)
25	201	1407901-001APS	Analyzed
26	2	CCV	QC Passed
27	1	CCB	QC Passed
28	3	CCV CAT	Analyzed
29	202	1407901-004A 2X	Analyzed
30	110	1407583-002A 10X	Analyzed
31	111	1407583-003A 5X	Analyzed
32	112	1407583-004A 5X	Analyzed
33	113	1407583-005A 10X	Analyzed
34	114	1407583-006A 10X	Analyzed
35	115	1407585-001A 10X	Analyzed
36	116	1407585-003A 5X	Analyzed
37	117	1407630-001A	Analyzed
38	118	1407630-001A 2X	Analyzed
39	2	CCV	QC Passed
40	1	CCB	QC Passed
41	3	CCV CAT	Analyzed
42	119	1407583-005A 20X	Analyzed
43	120	1407583-006A 20X	Analyzed
44	121	1407630-001A 10X	Analyzed
45	2	CCV	QC Passed
46	1	CCB	QC Passed
47	3	CCV CAT	Analyzed
48	7	DI RINSE	QC Passed

no factors by importing analyst. ok 7/21/14

Sample Information Detail Report
Document Name: 072114 B14317

File Description
Hall Design

Parameters Common to All Samples

Batch ID	072114 B14317
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

* Priority added samples
JMF 7/21/14

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	101	MB-14317	MBLK
2	102	LCS-14317	LCS
3	103	1407463-001A	SAMP
4	104	1407901-001A	SAMP
5	105	1407901-001AMS	MS
6	106	1407901-001AMSD	MSD
7	107	1407901-002A	SAMP
8	108	1407901-003A	SAMP
9	109	1407901-004A	SAMP
10	110	1407583-002A 10X	SAMP
11	111	1407583-003A 5X	SAMP
12	112	1407583-004A 5X	SAMP
13	113	1407583-005A 10X	SAMP
14	114	1407583-006A 10X	SAMP
15	115	1407585-001A 10X	SAMP
16	116	1407585-003A 5X	SAMP
17	117	1407630-001A	SAMP
18	118	1407630-001A 2X	SAMP
19	119	1407583-005A 20X	SAMP
20	120	1407583-006A 20X	SAMP
21	121	1407630-001A 10X	SAMP

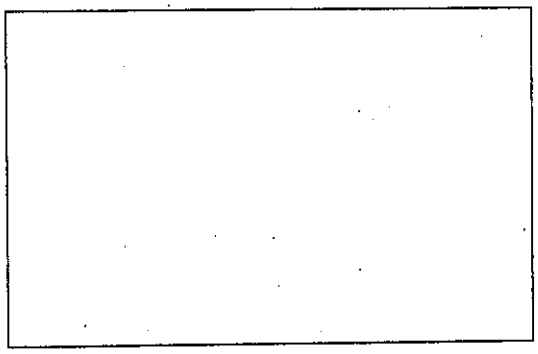
Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_SOIL		
4	METALS_SOIL		
5	METALS_SOIL	Recovery 1 of 4	
6	METALS_SOIL	Recovery 1 of 4	
7	METALS_SOIL		
8	METALS_SOIL		
9	METALS_SOIL		
10	METALS_SOIL		
11	METALS_SOIL		
12	METALS_SOIL		
13	METALS_SOIL		
14	METALS_SOIL		
15	METALS_SOIL		
16	METALS_SOIL		
17	METALS_SOIL		
18	METALS_SOIL		
19	METALS_SOIL		
20	METALS_SOIL		
21	METALS_SOIL		

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
5			
6			
7			
8			

9
10
11
12
13
14
15
16
17
18
19
20
21

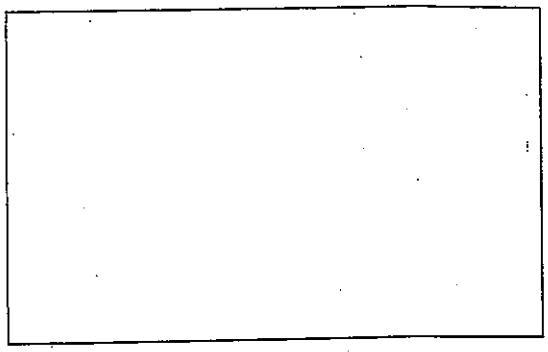
Method: ISIS 010814 6010SOIL
Result: 072114 B14317

Ag 328.068



1

Al 396.153



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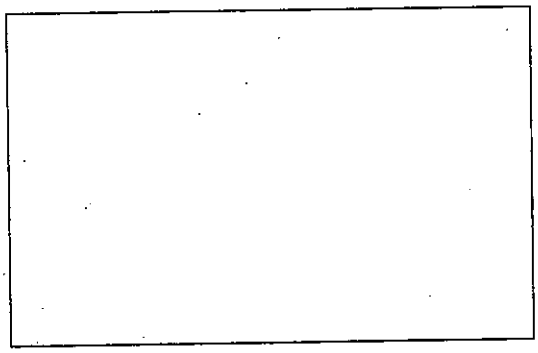
As 188.979



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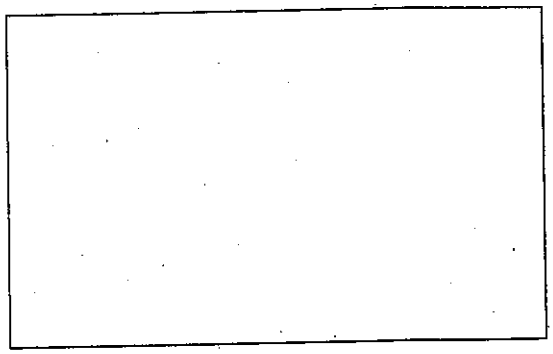
As 193.696



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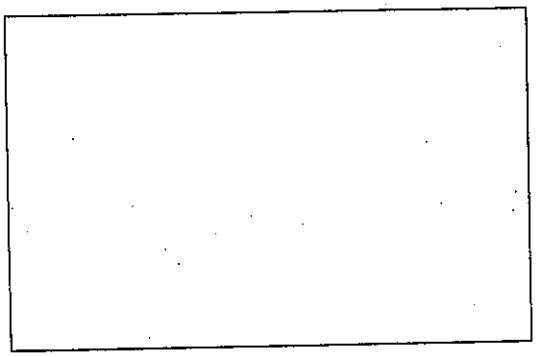
B 249.772



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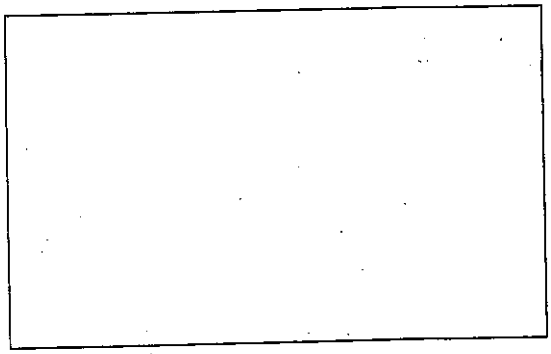
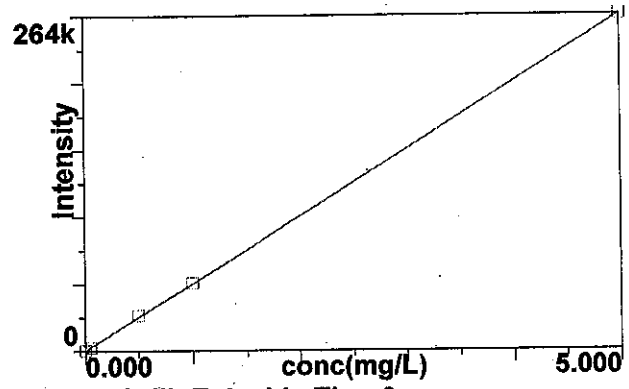
B 249.677



6

Method: ISIS 010814 6010SOIL
Result: 072114 B14317

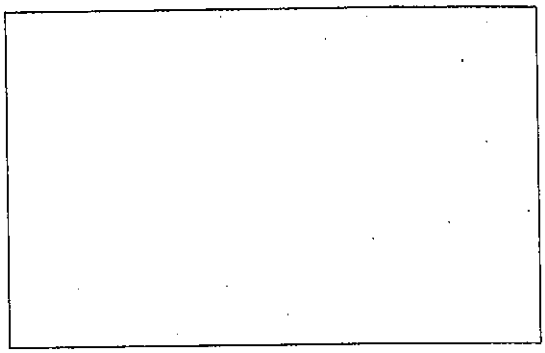
Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

7

Be 313.107



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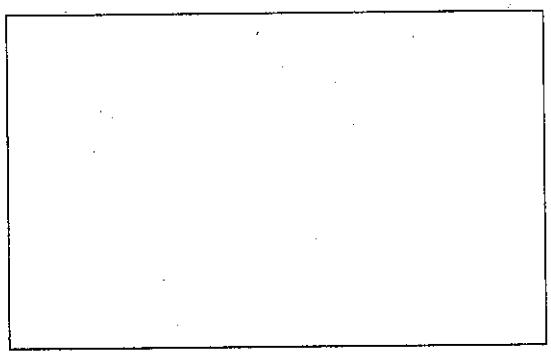
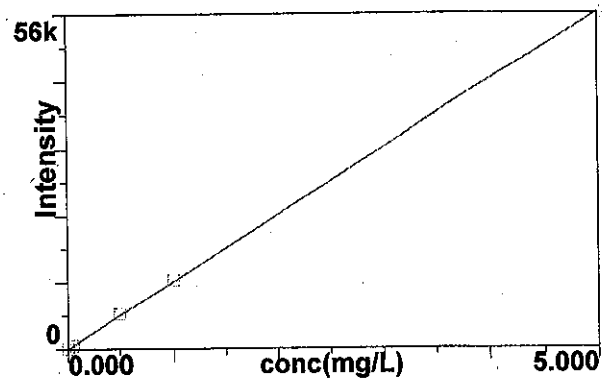
Ca 317.933



9

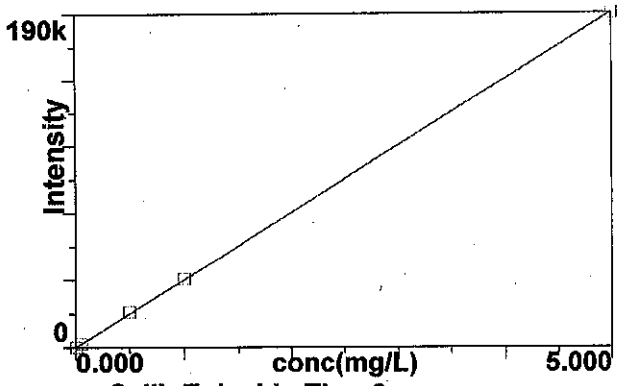
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999975

10

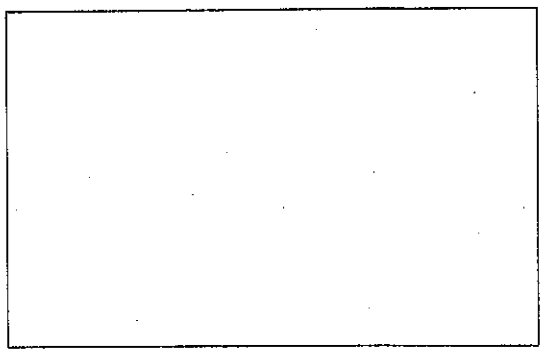
Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999986

11

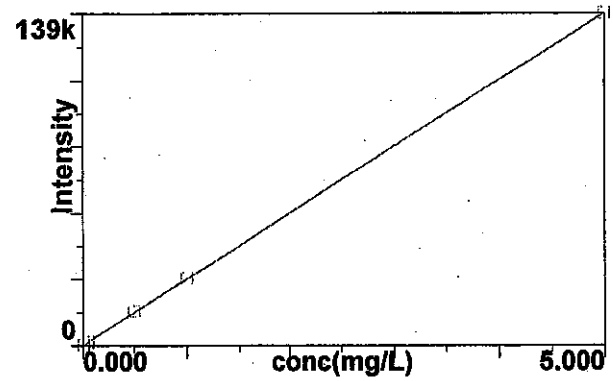
Co 228.616



12

Method: ISIS 010814 6010SOIL
Result: 072114 B14317

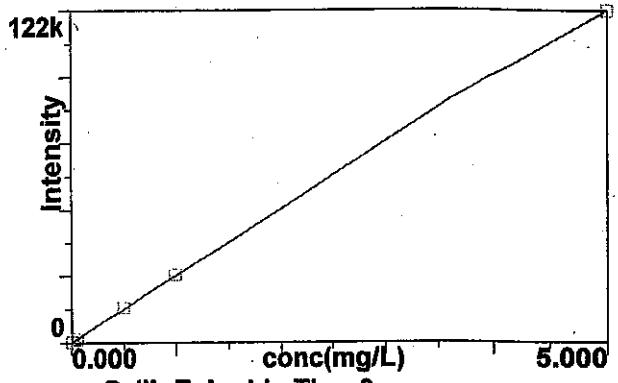
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999985

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

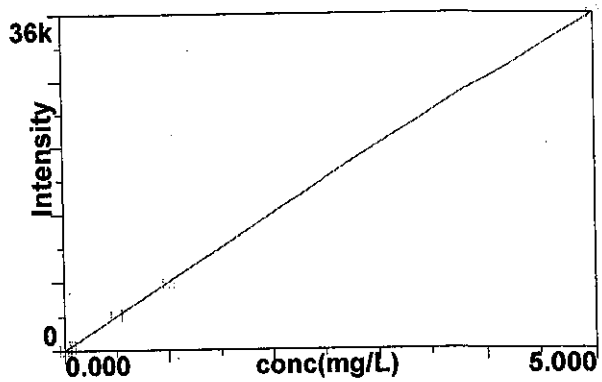
Mg 285.213

18

Mn 257.610

19

Mo 202.031



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

20

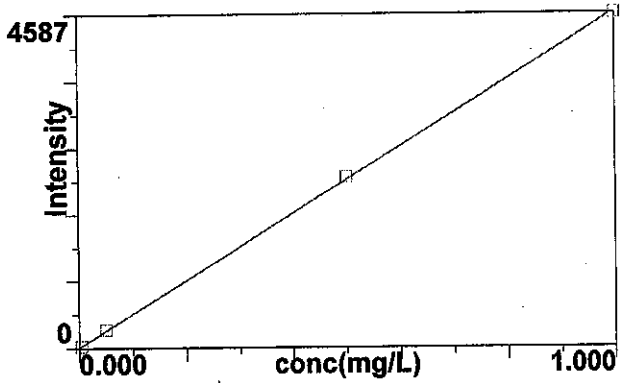
Na 589.592

21

Ni 231.604

22

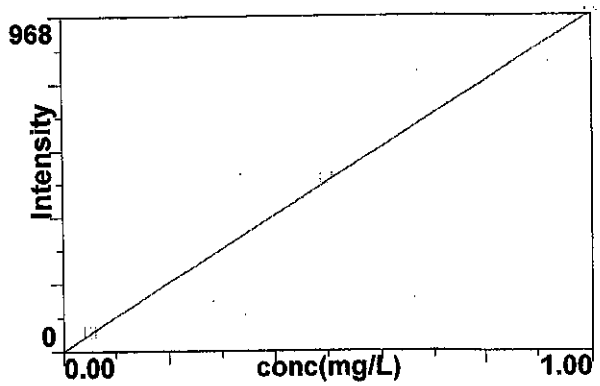
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999945

23

Pb 217.000

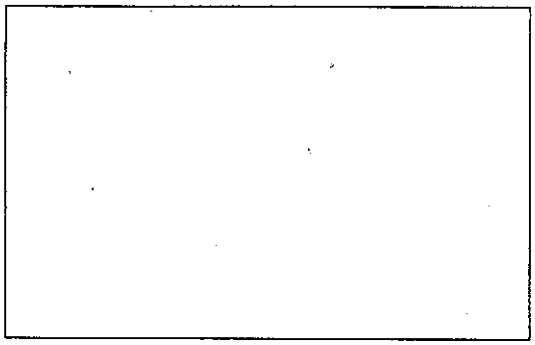


Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999911

24

Method: ISIS 010814 6010SOIL
Result: 072114 B14317

Sb 206.836



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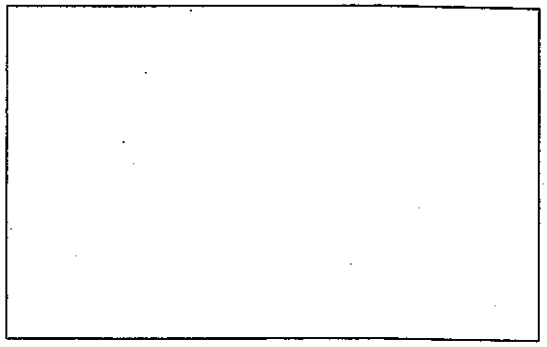
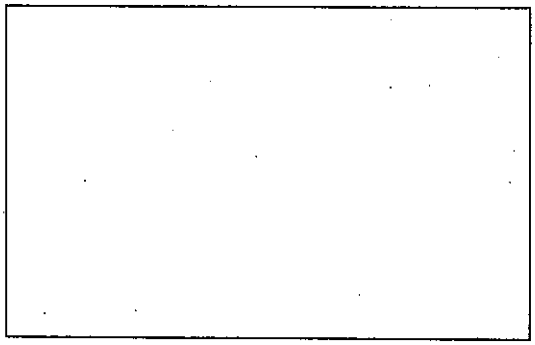
Se 203.985



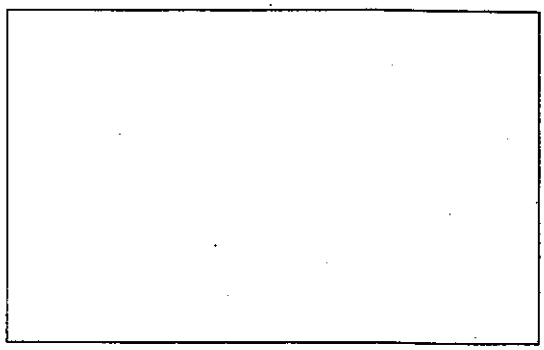
26

Se 196.026



27

Si 212.412



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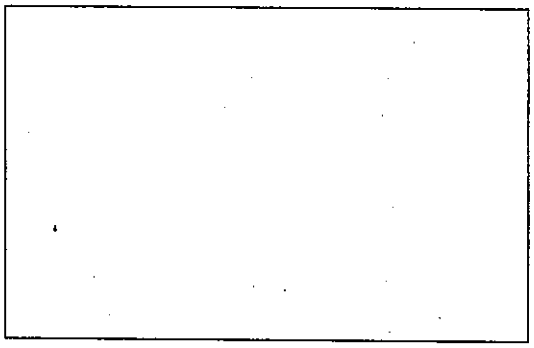
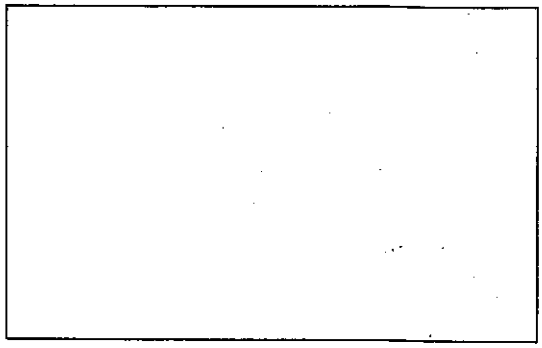
Sn 189.927



29

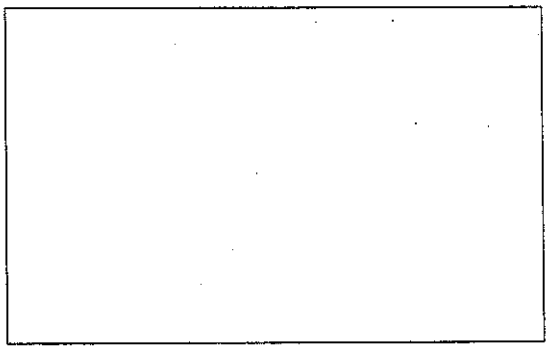
Ti 334.940



30

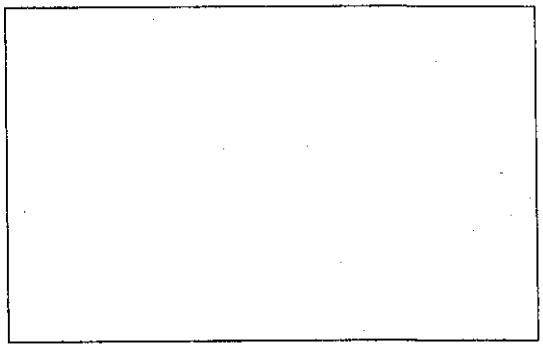
Method: ISIS 010814 6010SOIL
Result: 072114 B14317

Tl 190.801



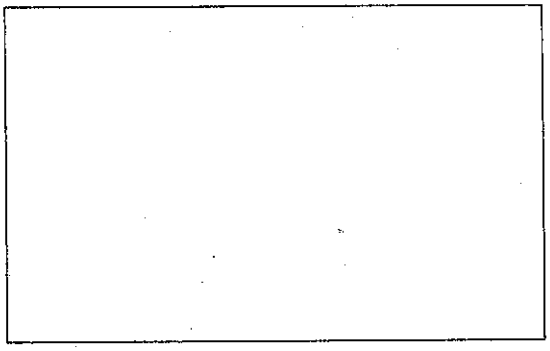
31

U 385.958



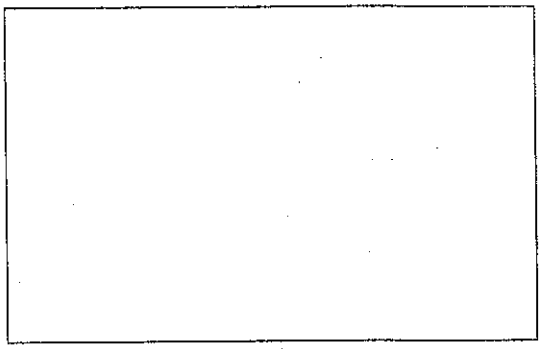
32

V 292.402



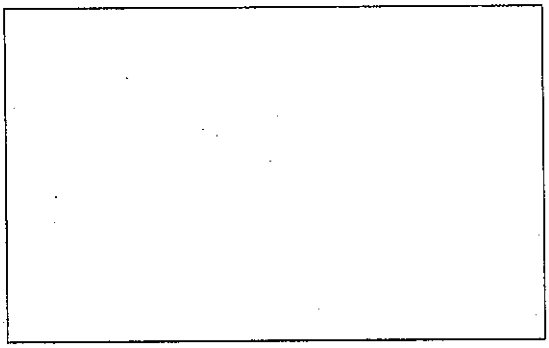
33

Zn 206.200



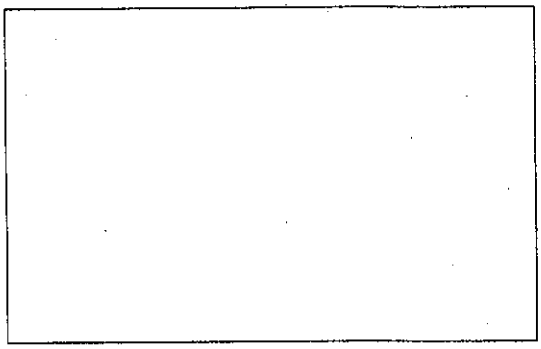
36

Sr 421.552



37

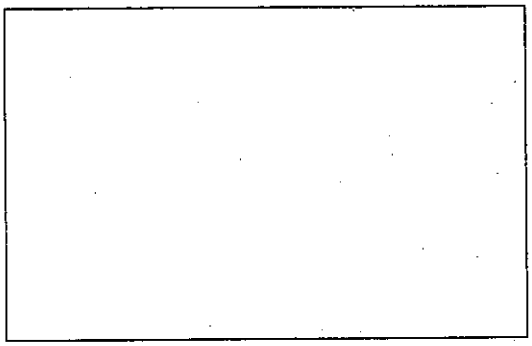
Sr 421.552 R



38

Method: ISIS 010814 6010SOIL
Result: 072114 B14317

U 424.167



39

Analysis Begun

Start Time: 7/21/2014 2:30:42 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 7/21/2014 1:42:57 PM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072114 B14317.sif
Batch ID: 072114 B14317
Results Data Set: 072114 B14317
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 7/21/2014 2:30:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	605380.7	1399.47	0.23%	100.00	%
Ba 233.527†	-13.7	12.12	88.79%	[0.00]	mg/L
Cd 228.802†	-23.3	3.44	14.75%	[0.00]	mg/L
Cd 226.502†	52.8	4.70	8.92%	[0.00]	mg/L
Cr 267.716†	-8.0	10.18	127.95%	[0.00]	mg/L
Cr 205.560†	-28.6	15.58	54.44%	[0.00]	mg/L
Mo 202.031†	-1.6	2.29	147.27%	[0.00]	mg/L
Pb 220.353†	-36.5	4.02	11.02%	[0.00]	mg/L
Pb 217.000†	6.0	4.19	69.98%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 7/21/2014 2:32:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	606716.8	1669.34	0.28%	100.22	%
Ba 233.527†	137.5	6.24	4.54%	[0.002]	mg/L
Cd 228.802†	23.3	1.65	7.11%	[0.002]	mg/L
Cd 226.502†	76.2	5.34	7.00%	[0.002]	mg/L
Cr 267.716†	172.3	10.26	5.96%	[0.006]	mg/L
Cr 205.560†	144.8	21.46	14.83%	[0.006]	mg/L
Mo 202.031†	58.4	2.44	4.17%	[0.008]	mg/L
Pb 220.353†	21.5	8.33	38.82%	[0.005]	mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Autosampler Location: 409
Date Collected: 7/21/2014 2:33:19 PM
Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	605963.5	6946.05	1.15%	100.10	%
Ba 233.527†	2793.7	33.56	1.20%	[0.05]	mg/L
Cd 228.802†	594.9	4.86	0.82%	[0.05]	mg/L
Cd 226.502†	1992.8	22.05	1.11%	[0.05]	mg/L
Cr 267.716†	1464.1	16.82	1.15%	[0.05]	mg/L
Cr 205.560†	1294.9	9.68	0.75%	[0.05]	mg/L
Mo 202.031†	374.3	10.31	2.76%	[0.050]	mg/L
Pb 220.353†	244.6	8.75	3.58%	[0.05]	mg/L
Pb 217.000†	53.8	9.02	16.76%	[0.05]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/21/2014 2:34:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	612145.9	3386.11	0.55%	101.12	%
Ba 233.527†	27608.3	130.54	0.47%	[0.50]	mg/L
Cd 228.802†	5944.7	30.08	0.51%	[0.50]	mg/L
Cd 226.502†	19883.8	88.99	0.45%	[0.50]	mg/L
Cr 267.716†	14535.9	77.18	0.53%	[0.50]	mg/L
Cr 205.560†	12798.5	61.67	0.48%	[0.50]	mg/L
Mo 202.031†	3697.0	31.42	0.85%	[0.50]	mg/L
Pb 220.353†	2351.8	7.98	0.34%	[0.50]	mg/L
Pb 217.000†	499.0	10.12	2.03%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 7/21/2014 2:35:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	619501.8	1989.48	0.32%	102.33	%
Ba 233.527†	53623.7	222.45	0.41%	[1.00]	mg/L
Cd 228.802†	11590.5	27.86	0.24%	[1.00]	mg/L

Cd 226.502†	38696.1	225.99	0.58%	[1.00] mg/L
Cr 267.716†	28167.4	124.38	0.44%	[1.00] mg/L
Cr 205.560†	24906.2	74.01	0.30%	[1.00] mg/L
Mo 202.031†	7234.1	27.27	0.38%	[1.00] mg/L
Pb 220.353†	4586.8	27.54	0.60%	[1.00] mg/L
Pb 217.000†	967.5	11.37	1.17%	[1.00] mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 7/21/2014 2:37:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	625475.4	1411.30	0.23%	103.32	%
Ba 233.527†	264282.9	437.95	0.17%	[5.00]	mg/L
Cd 228.802†	56496.3	120.18	0.21%	[5.00]	mg/L
Cd 226.502†	190345.5	298.71	0.16%	[5.00]	mg/L
Cr 267.716†	138969.1	645.58	0.46%	[5.00]	mg/L
Cr 205.560†	122434.4	326.80	0.27%	[5.00]	mg/L
Mo 202.031†	36162.3	146.02	0.40%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ba 233.527	5	Lin Thru 0	0.0	52910	0.00000	0.999987	
Cd 228.802	5	Lin Thru 0	0.0	11320	0.00000	0.999975	
Cd 226.502	5	Lin Thru 0	0.0	38110	0.00000	0.999986	
Cr 267.716	5	Lin Thru 0	0.0	27820	0.00000	0.999987	
Cr 205.560	5	Lin Thru 0	0.0	24510	0.00000	0.999985	
Mo 202.031	5	Lin Thru 0	0.0	7234	0.00000	0.999998	
Pb 220.353	4	Lin Thru 0	0.0	4611	0.00000	0.999945	
Pb 217.000	3	Lin Thru 0	0.0	973.8	0.00000	0.999911	

7/22/14

Sequence No.: 7
Sample ID: ST6
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
User canceled analysis.

Autosampler Location: 411
Date Collected: 7/21/2014 2:38:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Analysis Begun

Start Time: 7/21/2014 2:38:38 PM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 7/21/2014 1:42:57 PM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072114 B14317.sif
Batch ID: 072114 B14317
Results Data Set: 072114 B14317
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV
Analyst:

Autosampler Location: 401
Date Collected: 7/21/2014 2:38:38 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	628042.9	103.74	%	0.174				0.17%
Ba 233.527†	26532.7	0.50148	mg/L	0.001389	0.50148	mg/L	0.001389	0.28%
QC value within limits for Ba 233.527 Recovery = 100.30%								
Cd 228.802†	5631.0	0.49762	mg/L	0.002581	0.49762	mg/L	0.002581	0.52%
QC value within limits for Cd 228.802 Recovery = 99.52%								
Cd 226.502†	19034.3	0.49946	mg/L	0.000750	0.49946	mg/L	0.000750	0.15%
Cr 267.716†	13986.8	0.50275	mg/L	0.001683	0.50275	mg/L	0.001683	0.33%
Cr 205.560†	12265.0	0.50033	mg/L	0.001049	0.50033	mg/L	0.001049	0.21%
QC value within limits for Cr 205.560 Recovery = 100.07%								
Mo 202.031†	3527.6	0.48764	mg/L	0.003233	0.48764	mg/L	0.003233	0.66%
QC value within limits for Mo 202.031 Recovery = 97.53%								
Pb 220.353†	2276.3	0.49370	mg/L	0.002355	0.49370	mg/L	0.002355	0.48%
QC value within limits for Pb 220.353 Recovery = 98.74%								
Pb 217.000†	482.7	0.49566	mg/L	0.005030	0.49566	mg/L	0.005030	1.01%

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 7/21/2014 2:40:04 PM Plasma On Time: 7/21/2014 1:42:57 PM
Logged In Analyst: inorg Technique: ICP Continuous
Spectrometer: Optima 4300 DV, S/N 077N1091501 Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\072114 B14317.sif
Batch ID: 072114 B14317
Results Data Set: 072114 B14317
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12 Autosampler Location: 1
Sample ID: ICB Date Collected: 7/21/2014 2:40:04 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	631316.5	104.28	%	0.867				0.83%
Ba 233.527†	10.8	0.00020	mg/L	0.000762	0.00020	mg/L	0.000762	372.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-2.2	-0.00020	mg/L	0.000601	-0.00020	mg/L	0.000601	304.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	1.3	0.00004	mg/L	0.000141	0.00004	mg/L	0.000141	399.56%
Cr 267.716†	3.3	0.00012	mg/L	0.000133	0.00012	mg/L	0.000133	111.90%
Cr 205.560†	2.8	0.00011	mg/L	0.000439	0.00011	mg/L	0.000439	389.14%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Mo 202.031†	13.4	0.00185	mg/L	0.000257	0.00185	mg/L	0.000257	13.89%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Pb 220.353†	0.4	0.00009 mg/L	0.001583	0.00009 mg/L	0.001583	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	4.9	0.00498 mg/L	0.001051	0.00498 mg/L	0.001051	21.08%

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 7/21/2014 2:41:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	625176.0	103.27	%	0.569				0.55%
Ba 233.527†	114.6	0.00217	mg/L	0.000259	0.00217	mg/L	0.000259	11.95%
QC value within limits for Ba 233.527 Recovery = 108.29%								
Cd 228.802†	23.1	0.00204	mg/L	0.000250	0.00204	mg/L	0.000250	12.24%
QC value within limits for Cd 228.802 Recovery = 101.98%								
Cd 226.502†	71.9	0.00189	mg/L	0.000188	0.00189	mg/L	0.000188	9.97%
Cr 267.716†	166.5	0.00599	mg/L	0.000282	0.00599	mg/L	0.000282	4.72%
Cr 205.560†	142.6	0.00582	mg/L	0.000235	0.00582	mg/L	0.000235	4.04%
QC value within limits for Cr 205.560 Recovery = 96.98%								
Mo 202.031†	69.6	0.00962	mg/L	0.000860	0.00962	mg/L	0.000860	8.94%
QC value within limits for Mo 202.031 Recovery = 120.23%								
Pb 220.353†	26.6	0.00577	mg/L	0.001425	0.00577	mg/L	0.001425	24.68%
QC value within limits for Pb 220.353 Recovery = 115.47%								
Pb 217.000†	6.2	0.00638	mg/L	0.003902	0.00638	mg/L	0.003902	61.20%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 7/21/2014 2:42:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	620930.2	102.57	%	0.720				0.70%
Ba 233.527†	27454.0	0.51889	mg/L	0.001920	0.51889	mg/L	0.001920	0.37%
QC value within limits for Ba 233.527 Recovery = 103.78%								
Cd 228.802†	6176.1	0.54578	mg/L	0.002787	0.54578	mg/L	0.002787	0.51%
QC value within limits for Cd 228.802 Recovery = 109.16%								
Cd 226.502†	20059.1	0.52636	mg/L	0.002046	0.52636	mg/L	0.002046	0.39%
Cr 267.716†	14308.4	0.51431	mg/L	0.001486	0.51431	mg/L	0.001486	0.29%
Cr 205.560†	12495.1	0.50972	mg/L	0.001833	0.50972	mg/L	0.001833	0.36%
QC value within limits for Cr 205.560 Recovery = 101.94%								
Mo 202.031†	3702.6	0.51183	mg/L	0.003957	0.51183	mg/L	0.003957	0.77%
QC value within limits for Mo 202.031 Recovery = 102.37%								
Pb 220.353†	2243.5	0.48657	mg/L	0.003342	0.48657	mg/L	0.003342	0.69%
QC value within limits for Pb 220.353 Recovery = 97.31%								
Pb 217.000†	526.4	0.54058	mg/L	0.005076	0.54058	mg/L	0.005076	0.94%

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 7/21/2014 2:43:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	615372.5	101.65	%	0.264				0.26%
Ba 233.527†	46.0	0.00087	mg/L	0.000177	0.00087	mg/L	0.000177	20.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-10.0	-0.00088	mg/L	0.000610	-0.00088	mg/L	0.000610	69.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-31.0	-0.00081	mg/L	0.000133	-0.00081	mg/L	0.000133	16.38%
Cr 267.716†	14.4	0.00052	mg/L	0.000246	0.00052	mg/L	0.000246	47.69%
Cr 205.560†	-80.1	-0.00327	mg/L	0.000702	-0.00327	mg/L	0.000702	21.49%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Mo 202.031†	26.8	0.00371	mg/L	0.001233	0.00371	mg/L	0.001233	33.27%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Pb 220.353†	-44.5	-0.00965	mg/L	0.001995	-0.00965	mg/L	0.001995	20.68%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	23.9	0.02455	mg/L	0.008699	0.02455	mg/L	0.008699	35.44%

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-14317
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 101
Date Collected: 7/21/2014 2:45:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14317

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: MB-14317

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	594721.3	98.239	%	0.4188				0.43%
Ba 233.527†	27.5	0.00052	mg/L	0.000184	0.00052	mg/L	0.000184	35.42%
Cd 228.802†	-0.1	-0.00001	mg/L	0.000144	-0.00001	mg/L	0.000144	>999.9%
Cd 226.502†	-5.9	-0.00016	mg/L	0.000168	-0.00016	mg/L	0.000168	108.05%
Cr 267.716†	12.5	0.00045	mg/L	0.000303	0.00045	mg/L	0.000303	67.59%
Cr 205.560†	-7.4	-0.00030	mg/L	0.000239	-0.00030	mg/L	0.000239	79.44%
Mo 202.031†	23.7	0.00328	mg/L	0.000400	0.00328	mg/L	0.000400	12.20%
Pb 220.353†	2.9	0.00064	mg/L	0.001158	0.00064	mg/L	0.001158	181.39%
Pb 217.000†	1.8	0.00186	mg/L	0.006169	0.00186	mg/L	0.006169	332.30%

Sequence No.: 17
Sample ID: LCS-14317
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 102
Date Collected: 7/21/2014 2:46:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14317

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: LCS-14317

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	593104.3	97.972	%	0.5381				0.55%
Ba 233.527†	24945.8	0.47149	mg/L	0.003972	0.47149	mg/L	0.003972	0.84%
Cd 228.802†	5371.2	0.47465	mg/L	0.003562	0.47465	mg/L	0.003562	0.75%
Cd 226.502†	17816.7	0.46752	mg/L	0.004475	0.46752	mg/L	0.004475	0.96%
Cr 267.716†	13381.2	0.48099	mg/L	0.003306	0.48099	mg/L	0.003306	0.69%
Cr 205.560†	11739.5	0.47890	mg/L	0.003884	0.47890	mg/L	0.003884	0.81%
Mo 202.031†	3611.1	0.49918	mg/L	0.005488	0.49918	mg/L	0.005488	1.10%
Pb 220.353†	2062.0	0.44722	mg/L	0.005096	0.44722	mg/L	0.005096	1.14%
Pb 217.000†	458.9	0.47127	mg/L	0.006970	0.47127	mg/L	0.006970	1.48%

Matrix Recovery Check: LCS-14317

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ba 233.527	0.50052	0.47149	0.004	mg/L	94.2
Cd 228.802	0.49999	0.47465	0.004	mg/L	94.9
Cd 226.502	0.49984	0.46752	0.004	mg/L	93.5
Cr 267.716	0.50045	0.48099	0.003	mg/L	96.1
Cr 205.560	0.49970	0.47890	0.004	mg/L	95.8
Mo 202.031	0.50328	0.49918	0.005	mg/L	99.2
Pb 220.353	0.50064	0.44722	0.005	mg/L	89.3
Pb 217.000	0.50186	0.47127	0.007	mg/L	93.9

Sequence No.: 18
Sample ID: 1407463-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 103
Date Collected: 7/21/2014 2:47:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407463-001A

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1407463-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	622577.7	102.84	%	0.183				0.18%
Ba 233.527†	192423.6	3.6369	mg/L	0.00436	3.6369	mg/L	0.00436	0.12%
Cd 228.802†	59.9	0.00530	mg/L	0.000065	0.00530	mg/L	0.000065	1.23%
Cd 226.502†	-416.6	-0.01093	mg/L	0.000093	-0.01093	mg/L	0.000093	0.85%
Cr 267.716†	8497.7	0.30545	mg/L	0.002265	0.30545	mg/L	0.002265	0.74%
Cr 205.560†	6204.6	0.25311	mg/L	0.002046	0.25311	mg/L	0.002046	0.81%
Mo 202.031†	601.0	0.08308	mg/L	0.000702	0.08308	mg/L	0.000702	0.84%
Pb 220.353†	832.0	0.18046	mg/L	0.003236	0.18046	mg/L	0.003236	1.79%
Pb 217.000†	127.0	0.13040	mg/L	0.006010	0.13040	mg/L	0.006010	4.61%

Sequence No.: 19
Sample ID: 1407901-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 104
Date Collected: 7/21/2014 2:48:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-001A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407901-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	679751.5	112.28	%	1.335				1.19%
Ba 233.527†	320342.0	6.0546	mg/L	0.02272	6.0546	mg/L	0.02272	0.38%
Cd 228.802†	-20.7	-0.00183	mg/L	0.000128	-0.00183	mg/L	0.000128	6.99%
Cd 226.502†	-297.6	-0.00781	mg/L	0.000118	-0.00781	mg/L	0.000118	1.51%
Cr 267.716†	3203.8	0.11516	mg/L	0.001171	0.11516	mg/L	0.001171	1.02%
Cr 205.560†	2473.5	0.10091	mg/L	0.000735	0.10091	mg/L	0.000735	0.73%
Mo 202.031†	41.5	0.00574	mg/L	0.000574	0.00574	mg/L	0.000574	10.01%
Pb 220.353†	179.4	0.03892	mg/L	0.001753	0.03892	mg/L	0.001753	4.51%
Pb 217.000†	109.3	0.11219	mg/L	0.013962	0.11219	mg/L	0.013962	12.44%

Sequence No.: 20
Sample ID: 1407901-001AMS
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 105
Date Collected: 7/21/2014 2:50:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-001AMS

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407901-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	707844.0	116.93	%	0.766				0.66%
Ba 233.527†	413988.8	7.8246	mg/L	0.00763	7.8246	mg/L	0.00763	0.10%
Cd 228.802†	4263.2	0.37674	mg/L	0.000931	0.37674	mg/L	0.000931	0.25%
Cd 226.502†	12944.3	0.33966	mg/L	0.001726	0.33966	mg/L	0.001726	0.51%
Cr 267.716†	13724.7	0.49333	mg/L	0.002509	0.49333	mg/L	0.002509	0.51%
Cr 205.560†	11704.2	0.47746	mg/L	0.001287	0.47746	mg/L	0.001287	0.27%
Mo 202.031†	2555.6	0.35327	mg/L	0.001643	0.35327	mg/L	0.001643	0.47%
Pb 220.353†	1650.2	0.35791	mg/L	0.000475	0.35791	mg/L	0.000475	0.13%
Pb 217.000†	471.8	0.48452	mg/L	0.004523	0.48452	mg/L	0.004523	0.93%

Matrix Recovery Check: 1407901-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ba 233.527	6.5546	7.8246	0.008	mg/L	354.0
Cd 228.802	0.49817	0.37674	0.001	mg/L	75.7
Cd 226.502	0.49219	0.33966	0.002	mg/L	69.5
Cr 267.716	0.61516	0.49333	0.003	mg/L	75.6
Cr 205.560	0.60091	0.47746	0.001	mg/L	75.3
Mo 202.031	0.50574	0.35327	0.002	mg/L	69.5
Pb 220.353	0.53892	0.35791	0.000	mg/L	63.8
Pb 217.000	0.61219	0.48452	0.005	mg/L	74.5

Sequence No.: 21
Sample ID: 1407901-001AMSD
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 106
Date Collected: 7/21/2014 2:51:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-001AMSD

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407901-001AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	686186.2	113.35	%	0.713				0.63%
Ba 233.527†	265951.9	5.0266	mg/L	0.00963	5.0266	mg/L	0.00963	0.19%
Cd 228.802†	4467.1	0.39476	mg/L	0.000559	0.39476	mg/L	0.000559	0.14%
Cd 226.502†	13566.7	0.35599	mg/L	0.000589	0.35599	mg/L	0.000589	0.17%
Cr 267.716†	14355.2	0.51600	mg/L	0.001068	0.51600	mg/L	0.001068	0.21%
Cr 205.560†	12298.1	0.50168	mg/L	0.001151	0.50168	mg/L	0.001151	0.23%
Mo 202.031†	2696.8	0.37279	mg/L	0.001761	0.37279	mg/L	0.001761	0.47%
Pb 220.353†	1757.7	0.38122	mg/L	0.003269	0.38122	mg/L	0.003269	0.86%
Pb 217.000†	502.3	0.51584	mg/L	0.011195	0.51584	mg/L	0.011195	2.17%

Matrix Recovery Check: 1407901-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ba 233.527	6.5546	5.0266	0.010	mg/L	-205.6
Cd 228.802	0.49817	0.39476	0.001	mg/L	79.3
Cd 226.502	0.49219	0.35599	0.001	mg/L	72.8
Cr 267.716	0.61516	0.51600	0.001	mg/L	80.2
Cr 205.560	0.60091	0.50168	0.001	mg/L	80.2
Mo 202.031	0.50574	0.37279	0.002	mg/L	73.4
Pb 220.353	0.53892	0.38122	0.003	mg/L	68.5
Pb 217.000	0.61219	0.51584	0.011	mg/L	80.7

Sequence No.: 22
Sample ID: 1407901-002A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 107
Date Collected: 7/21/2014 2:52:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-002A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407901-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	653837.9	108.00	%	0.980				0.91%
Ba 233.527†	190762.3	3.6055	mg/L	0.01552	3.6055	mg/L	0.01552	0.43%
Cd 228.802†	-23.2	-0.00205	mg/L	0.000420	-0.00205	mg/L	0.000420	20.49%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-256.6	-0.00673	mg/L	0.000223	-0.00673	mg/L	0.000223	3.30%
Cr 267.716†	2999.0	0.10780	mg/L	0.000783	0.10780	mg/L	0.000783	0.73%
Cr 205.560†	2277.8	0.09292	mg/L	0.000454	0.09292	mg/L	0.000454	0.49%
Mo 202.031†	29.4	0.00406	mg/L	0.000499	0.00406	mg/L	0.000499	12.29%
Pb 220.353†	305.3	0.06622	mg/L	0.001745	0.06622	mg/L	0.001745	2.63%
Pb 217.000†	144.2	0.14803	mg/L	0.000731	0.14803	mg/L	0.000731	0.49%

Sequence No.: 23
Sample ID: 1407901-003A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 108
Date Collected: 7/21/2014 2:54:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-003A

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407901-003A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	684676.6	113.10 %	0.161				0.14%
Ba 233.527†	327445.5	6.1889 mg/L	0.01992	6.1889 mg/L	0.01992		0.32%
Cd 228.802†	-14.9	-0.00132 mg/L	0.000173	-0.00132 mg/L	0.000173		13.15%
Cd 226.502†	-280.4	-0.00736 mg/L	0.000268	-0.00736 mg/L	0.000268		3.64%
Cr 267.716†	2932.5	0.10541 mg/L	0.000471	0.10541 mg/L	0.000471		0.45%
Cr 205.560†	2203.6	0.08989 mg/L	0.000871	0.08989 mg/L	0.000871		0.97%
Mo 202.031†	34.5	0.00476 mg/L	0.000138	0.00476 mg/L	0.000138		2.89%
Pb 220.353†	195.0	0.04228 mg/L	0.000932	0.04228 mg/L	0.000932		2.21%
Pb 217.000†	105.1	0.10794 mg/L	0.008942	0.10794 mg/L	0.008942		8.28%

Sequence No.: 24
Sample ID: 1407901-004A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 109
Date Collected: 7/21/2014 2:55:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-004A

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1407901-004A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	803432.4	132.72	%	0.860				0.65%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 132.7%								
Ba 233.527†	113724.4	2.1495	mg/L	0.00610	2.1495	mg/L	0.00610	0.28%
Cd 228.802†	-7.0	-0.00062	mg/L	0.000271	-0.00062	mg/L	0.000271	43.52%
Cd 226.502†	-473.1	-0.01241	mg/L	0.000180	-0.01241	mg/L	0.000180	1.45%
Cr 267.716†	5791.6	0.20818	mg/L	0.001852	0.20818	mg/L	0.001852	0.89%
Cr 205.560†	4361.9	0.17794	mg/L	0.001944	0.17794	mg/L	0.001944	1.09%
Mo 202.031†	62.5	0.00864	mg/L	0.000290	0.00864	mg/L	0.000290	3.35%
Pb 220.353†	325.6	0.07063	mg/L	0.002157	0.07063	mg/L	0.002157	3.05%
Pb 217.000†	196.2	0.20149	mg/L	0.001690	0.20149	mg/L	0.001690	0.84%
Internal Standard Check failed. Continue with analysis.								

Sequence No.: 25
Sample ID: 1407901-001APS
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 201
Date Collected: 7/21/2014 2:56:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1407901-001APS

Analyte	Back Pressure	Flow
All	249.0 kPa	0.55 L/min

Mean Data: 1407901-001APS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	690513.6	114.06	%	0.954				0.84%
Ba 233.527†	333120.1	6.2961	mg/L	0.00634	6.2961	mg/L	0.00634	0.10%
Cd 228.802†	4336.3	0.38320	mg/L	0.004252	0.38320	mg/L	0.004252	1.11%
Cd 226.502†	13197.8	0.34631	mg/L	0.003657	0.34631	mg/L	0.003657	1.06%
Cr 267.716†	13383.4	0.48107	mg/L	0.004328	0.48107	mg/L	0.004328	0.90%
Cr 205.560†	11394.8	0.46484	mg/L	0.005303	0.46484	mg/L	0.005303	1.14%
Mo 202.031†	2804.2	0.38764	mg/L	0.003474	0.38764	mg/L	0.003474	0.90%
Pb 220.353†	1752.6	0.38011	mg/L	0.004584	0.38011	mg/L	0.004584	1.21%
Pb 217.000†	467.2	0.47979	mg/L	0.017630	0.47979	mg/L	0.017630	3.67%

Sequence No.: 26
Sample ID: CCV
Analyst:

Autosampler Location: 2
Date Collected: 7/21/2014 2:58:01 PM
Data Type: Original

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	617892.9	102.07	%	1.177				1.15%
Ba 233.527†	27849.5	0.52637	mg/L	0.003290	0.52637	mg/L	0.003290	0.62%
QC value within limits for Ba 233.527 Recovery = 105.27%								
Cd 228.802†	5993.7	0.52967	mg/L	0.003737	0.52967	mg/L	0.003737	0.71%
QC value within limits for Cd 228.802 Recovery = 105.93%								
Cd 226.502†	19952.7	0.52356	mg/L	0.003169	0.52356	mg/L	0.003169	0.61%
Cr 267.716†	14672.2	0.52739	mg/L	0.003690	0.52739	mg/L	0.003690	0.70%
Cr 205.560†	12910.5	0.52667	mg/L	0.003233	0.52667	mg/L	0.003233	0.61%
QC value within limits for Cr 205.560 Recovery = 105.33%								
Mo 202.031†	3737.8	0.51670	mg/L	0.003756	0.51670	mg/L	0.003756	0.73%
QC value within limits for Mo 202.031 Recovery = 103.34%								
Pb 220.353†	2372.6	0.51459	mg/L	0.001569	0.51459	mg/L	0.001569	0.30%
QC value within limits for Pb 220.353 Recovery = 102.92%								
Pb 217.000†	500.0	0.51347	mg/L	0.003543	0.51347	mg/L	0.003543	0.69%

All analyte(s) passed QC.

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Sequence No.: 27
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/21/2014 2:59:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	620202.5	102.45	%	0.450				0.44%
Ba 233.527†	17.5	0.00033	mg/L	0.000147	0.00033	mg/L	0.000147	44.28%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	2.4	0.00021	mg/L	0.000253	0.00021	mg/L	0.000253	117.70%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-0.7	-0.00002	mg/L	0.000115	-0.00002	mg/L	0.000115	606.97%
Cr 267.716†	5.0	0.00018	mg/L	0.000173	0.00018	mg/L	0.000173	95.82%
Cr 205.560†	1.4	0.00006	mg/L	0.000496	0.00006	mg/L	0.000496	856.86%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Mo 202.031†	10.0	0.00138	mg/L	0.000189	0.00138	mg/L	0.000189	13.70%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Pb 220.353†	-1.9	-0.00042	mg/L	0.001401	-0.00042	mg/L	0.001401	331.73%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-4.6	-0.00469	mg/L	0.004332	-0.00469	mg/L	0.004332	92.41%

All analyte(s) passed QC.

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Sequence No.: 28
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/21/2014 3:00:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	610743.6	100.89	%	0.924				0.92%
Ba 233.527†	6.3	0.00012	mg/L	0.000244	0.00012	mg/L	0.000244	204.54%
Cd 228.802†	-3.8	-0.00033	mg/L	0.000252	-0.00033	mg/L	0.000252	75.23%
Cd 226.502†	-1.5	-0.00004	mg/L	0.000139	-0.00004	mg/L	0.000139	341.44%
Cr 267.716†	0.1	0.00000	mg/L	0.000229	0.00000	mg/L	0.000229	>999.9%
Cr 205.560†	2.1	0.00008	mg/L	0.000056	0.00008	mg/L	0.000056	66.48%
Mo 202.031†	-0.2	-0.00003	mg/L	0.000208	-0.00003	mg/L	0.000208	604.10%
Pb 220.353†	-6.1	-0.00132	mg/L	0.000722	-0.00132	mg/L	0.000722	54.90%
Pb 217.000†	4.8	0.00496	mg/L	0.000554	0.00496	mg/L	0.000554	11.17%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: 1407901-004A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 202
Date Collected: 7/21/2014 3:01:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407901-004A 2X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407901-004A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	688676.1	113.76	%	1.196				1.05%
Ba 233.527†	72692.2	1.3739	mg/L	0.00130	1.3739	mg/L	0.00130	0.09%
Cd 228.802†	-14.2	-0.00126	mg/L	0.000351	-0.00126	mg/L	0.000351	27.98%
Cd 226.502†	-332.1	-0.00871	mg/L	0.000204	-0.00871	mg/L	0.000204	2.34%
Cr 267.716†	3719.3	0.13369	mg/L	0.001061	0.13369	mg/L	0.001061	0.79%
Cr 205.560†	2786.7	0.11368	mg/L	0.000760	0.11368	mg/L	0.000760	0.67%
Mo 202.031†	41.5	0.00574	mg/L	0.000740	0.00574	mg/L	0.000740	12.89%
Pb 220.353†	213.6	0.04632	mg/L	0.001197	0.04632	mg/L	0.001197	2.58%
Pb 217.000†	104.7	0.10748	mg/L	0.006589	0.10748	mg/L	0.006589	6.13%

Sequence No.: 30
Sample ID: 1407583-002A 10X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 110
Date Collected: 7/21/2014 3:03:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407583-002A 10X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407583-002A 10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	611087.6	100.94	%	0.642				0.64%
Ba 233.527†	142053.4	2.6849	mg/L	0.00585	2.6849	mg/L	0.00585	0.22%
Cd 228.802†	-9.5	-0.00084	mg/L	0.000268	-0.00084	mg/L	0.000268	31.93%
Cd 226.502†	-43.6	-0.00114	mg/L	0.000150	-0.00114	mg/L	0.000150	13.07%
Cr 267.716†	2028.1	0.07290	mg/L	0.000344	0.07290	mg/L	0.000344	0.47%
Cr 205.560†	1666.7	0.06799	mg/L	0.000479	0.06799	mg/L	0.000479	0.70%

Sequence No.: 36
Sample ID: 1407585-003A 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 116
Date Collected: 7/21/2014 3:10:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407585-003A 5X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407585-003A 5X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	633461.8	104.64	%	0.834				0.80%
Ba 233.527†	156064.7	2.9497	mg/L	0.00502	2.9497	mg/L	0.00502	0.17%
Cd 228.802†	-12.6	-0.00111	mg/L	0.000302	-0.00111	mg/L	0.000302	27.21%
Cd 226.502†	-47.5	-0.00125	mg/L	0.000079	-0.00125	mg/L	0.000079	6.31%
Cr 267.716†	675.5	0.02428	mg/L	0.000116	0.02428	mg/L	0.000116	0.48%
Cr 205.560†	456.3	0.01861	mg/L	0.000805	0.01861	mg/L	0.000805	4.33%
Mo 202.031†	14.6	0.00202	mg/L	0.000135	0.00202	mg/L	0.000135	6.71%
Pb 220.353†	160.9	0.03489	mg/L	0.000709	0.03489	mg/L	0.000709	2.03%
Pb 217.000†	55.2	0.05670	mg/L	0.012836	0.05670	mg/L	0.012836	22.64%

Sequence No.: 37
Sample ID: 1407630-001A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 117
Date Collected: 7/21/2014 3:11:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407630-001A

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407630-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	560990.0	92.667	%	0.3150				0.34%
Ba 233.527†	194587.1	3.6778	mg/L	0.00548	3.6778	mg/L	0.00548	0.15%
Cd 228.802†	1528.9	0.13511	mg/L	0.001354	0.13511	mg/L	0.001354	1.00%
Cd 226.502†	4365.2	0.11454	mg/L	0.001121	0.11454	mg/L	0.001121	0.98%
Cr 267.716†	13342.8	0.47961	mg/L	0.002150	0.47961	mg/L	0.002150	0.45%
Cr 205.560†	10776.0	0.43959	mg/L	0.003959	0.43959	mg/L	0.003959	0.90%
Mo 202.031†	1856.4	0.25662	mg/L	0.002327	0.25662	mg/L	0.002327	0.91%
Pb 220.353†	22323.5	4.8416	mg/L	0.03366	4.8416	mg/L	0.03366	0.70%
Pb 217.000†	5373.7	5.5183	mg/L	0.06712	5.5183	mg/L	0.06712	1.22%

Sequence No.: 38
Sample ID: 1407630-001A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 118
Date Collected: 7/21/2014 3:12:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407630-001A 2X

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: 1407630-001A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	590124.2	97.480 %	0.0498				0.05%
Ba 233.527†	102947.7	1.9458 mg/L	0.00279	1.9458 mg/L	0.00279		0.14%
Cd 228.802†	797.3	0.07046 mg/L	0.000458	0.07046 mg/L	0.000458		0.65%
Cd 226.502†	2291.8	0.06014 mg/L	0.000268	0.06014 mg/L	0.000268		0.44%
Cr 267.716†	7032.1	0.25277 mg/L	0.001897	0.25277 mg/L	0.001897		0.75%
Cr 205.560†	5657.4	0.23079 mg/L	0.000553	0.23079 mg/L	0.000553		0.24%
Mo 202.031†	973.7	0.13461 mg/L	0.000819	0.13461 mg/L	0.000819		0.61%
Pb 220.353†	12007.5	2.6042 mg/L	0.00983	2.6042 mg/L	0.00983		0.38%
Pb 217.000†	2805.5	2.8809 mg/L	0.01379	2.8809 mg/L	0.01379		0.48%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 2
Date Collected: 7/21/2014 3:14:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	609920.5	100.75	%	0.446				0.44%
Ba 233.527†	28203.2	0.53306	mg/L	0.003040	0.53306	mg/L	0.003040	0.57%
QC value within limits for Ba 233.527 Recovery = 106.61%								
Cd 228.802†	6072.7	0.53665	mg/L	0.004100	0.53665	mg/L	0.004100	0.76%
QC value within limits for Cd 228.802 Recovery = 107.33%								
Cd 226.502†	20242.9	0.53118	mg/L	0.003552	0.53118	mg/L	0.003552	0.67%
Cr 267.716†	14885.6	0.53506	mg/L	0.004085	0.53506	mg/L	0.004085	0.76%
Cr 205.560†	13073.7	0.53332	mg/L	0.003995	0.53332	mg/L	0.003995	0.75%
QC value within limits for Cr 205.560 Recovery = 106.66%								
Mo 202.031†	3774.1	0.52171	mg/L	0.004050	0.52171	mg/L	0.004050	0.78%
QC value within limits for Mo 202.031 Recovery = 104.34%								
Pb 220.353†	2396.7	0.51980	mg/L	0.005064	0.51980	mg/L	0.005064	0.97%
QC value within limits for Pb 220.353 Recovery = 103.96%								
Pb 217.000†	505.2	0.51878	mg/L	0.012611	0.51878	mg/L	0.012611	2.43%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 7/21/2014 3:15:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	611055.9	100.94	%	0.424				0.42%
Ba 233.527†	25.4	0.00048	mg/L	0.000105	0.00048	mg/L	0.000105	21.75%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-4.5	-0.00039	mg/L	0.000402	-0.00039	mg/L	0.000402	101.79%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-4.2	-0.00011	mg/L	0.000132	-0.00011	mg/L	0.000132	121.19%
Cr 267.716†	1.3	0.00005	mg/L	0.000098	0.00005	mg/L	0.000098	210.42%
Cr 205.560†	16.4	0.00067	mg/L	0.000298	0.00067	mg/L	0.000298	44.45%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Mo 202.031†	8.0	0.00111	mg/L	0.000297	0.00111	mg/L	0.000297	26.77%

QC value within limits for Mo 202.031 Recovery = Not calculated

Pb 220.353†	-1.2	-0.00026 mg/L	0.000939	-0.00026 mg/L	0.000939	360.20%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	5.2	0.00535 mg/L	0.004084	0.00535 mg/L	0.004084	76.31%

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 7/21/2014 3:16:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	248.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	606755.5	100.23	%	0.559				0.56%
Ba 233.527†	36.5	0.00069	mg/L	0.000218	0.00069	mg/L	0.000218	31.66%
Cd 228.802†	-2.3	-0.00020	mg/L	0.000178	-0.00020	mg/L	0.000178	87.58%
Cd 226.502†	2.8	0.00007	mg/L	0.000112	0.00007	mg/L	0.000112	154.29%
Cr 267.716†	-3.0	-0.00011	mg/L	0.000039	-0.00011	mg/L	0.000039	35.71%
Cr 205.560†	4.1	0.00017	mg/L	0.000220	0.00017	mg/L	0.000220	132.52%
Mo 202.031†	4.6	0.00064	mg/L	0.000448	0.00064	mg/L	0.000448	70.53%
Pb 220.353†	-4.8	-0.00105	mg/L	0.001979	-0.00105	mg/L	0.001979	189.23%
Pb 217.000†	2.5	0.00252	mg/L	0.004623	0.00252	mg/L	0.004623	183.61%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1407583-005A 20X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 119
Date Collected: 7/21/2014 3:18:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407583-005A 20X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407583-005A 20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	619691.7	102.36	%	0.363				0.35%
Ba 233.527†	146112.7	2.7616	mg/L	0.00910	2.7616	mg/L	0.00910	0.33%
Cd 228.802†	-7.0	-0.00062	mg/L	0.000071	-0.00062	mg/L	0.000071	11.53%
Cd 226.502†	-11.8	-0.00031	mg/L	0.000177	-0.00031	mg/L	0.000177	57.07%
Cr 267.716†	556.1	0.01999	mg/L	0.000053	0.01999	mg/L	0.000053	0.27%
Cr 205.560†	435.8	0.01778	mg/L	0.000691	0.01778	mg/L	0.000691	3.89%
Mo 202.031†	15.9	0.00219	mg/L	0.000532	0.00219	mg/L	0.000532	24.24%
Pb 220.353†	30.6	0.00664	mg/L	0.000730	0.00664	mg/L	0.000730	10.99%
Pb 217.000†	11.3	0.01158	mg/L	0.007174	0.01158	mg/L	0.007174	61.94%

Sequence No.: 43
Sample ID: 1407583-006A 20X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 120
Date Collected: 7/21/2014 3:19:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407583-006A 20X

Analyte	Back Pressure	Flow
All	246.0 kPa	0.55 L/min

Mean Data: 1407583-006A 20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	609599.4	100.70	%	0.803				0.80%
Ba 233.527†	153909.5	2.9090	mg/L	0.00232	2.9090	mg/L	0.00232	0.08%
Cd 228.802†	-9.0	-0.00079	mg/L	0.000157	-0.00079	mg/L	0.000157	19.75%
Cd 226.502†	-32.0	-0.00084	mg/L	0.000087	-0.00084	mg/L	0.000087	10.35%
Cr 267.716†	1270.2	0.04566	mg/L	0.000441	0.04566	mg/L	0.000441	0.97%
Cr 205.560†	1031.9	0.04210	mg/L	0.000324	0.04210	mg/L	0.000324	0.77%
Mo 202.031†	18.0	0.00249	mg/L	0.000410	0.00249	mg/L	0.000410	16.46%
Pb 220.353†	30.1	0.00654	mg/L	0.002053	0.00654	mg/L	0.002053	31.41%
Pb 217.000†	9.0	0.00922	mg/L	0.002613	0.00922	mg/L	0.002613	28.34%

Sequence No.: 44
Sample ID: 1407630-001A 10X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 121
Date Collected: 7/21/2014 3:20:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407630-001A 10X

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: 1407630-001A 10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	600470.3	99.189	%	0.4585				0.46%
Ba 233.527†	22534.9	0.42592	mg/L	0.000876	0.42592	mg/L	0.000876	0.21%
Cd 228.802†	163.6	0.01446	mg/L	0.000129	0.01446	mg/L	0.000129	0.90%
Cd 226.502†	504.0	0.01323	mg/L	0.000104	0.01323	mg/L	0.000104	0.79%
Cr 267.716†	1525.5	0.05483	mg/L	0.000863	0.05483	mg/L	0.000863	1.57%
Cr 205.560†	1210.9	0.04940	mg/L	0.000792	0.04940	mg/L	0.000792	1.60%
Mo 202.031†	206.6	0.02857	mg/L	0.000391	0.02857	mg/L	0.000391	1.37%
Pb 220.353†	2700.1	0.58561	mg/L	0.000341	0.58561	mg/L	0.000341	0.06%
Pb 217.000†	602.4	0.61858	mg/L	0.004995	0.61858	mg/L	0.004995	0.81%

Sequence No.: 45
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 7/21/2014 3:21:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	247.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	605677.3	100.05	%	0.266				0.27%
Ba 233.527†	28496.6	0.53860	mg/L	0.002509	0.53860	mg/L	0.002509	0.47%
QC value within limits for Ba 233.527 Recovery = 107.72%								
Cd 228.802†	6127.9	0.54153	mg/L	0.002869	0.54153	mg/L	0.002869	0.53%
QC value within limits for Cd 228.802 Recovery = 108.31%								
Cd 226.502†	20523.0	0.53853	mg/L	0.002816	0.53853	mg/L	0.002816	0.52%
Cr 267.716†	15059.7	0.54132	mg/L	0.002624	0.54132	mg/L	0.002624	0.48%
Cr 205.560†	13190.1	0.53807	mg/L	0.002298	0.53807	mg/L	0.002298	0.43%

J 7.23.14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407965**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407965

Lab ID: 1407965-001
Client Sample ID: FFOR-CF-0078
Collection Date: 7/21/2014 11:15:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/24/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	7.8	1.0		wt%	1	R20087	7/22/2014 4:14:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 7-22-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 7-22-14 4:14pm	Start Temp: 110C		Reviewed by:
End time: 7-23-14 10:56am	End Temp: 109C		7.23.14

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
1407965-001a			1.35	33.82	31.29		7.7918	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1407965-001a

$$\frac{33.82 - 31.29}{33.82 - 1.35} \times 100 = 7.7918\%$$

cg 7.23.14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

not reporting

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1407965**
Date Reported: 7/24/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1407965

Lab ID: 1407965-001
Client Sample ID: FFOR-CF-0078
Collection Date: 07/21/14 11:15:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 07/24/2014							
EPA METHOD 8270C: PAHS							Analyst: **JDC**
Naphthalene	ND	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
1-Methylnaphthalene	ND	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
2-Methylnaphthalene	ND	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Acenaphthylene	0.093	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Acenaphthene	ND	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Fluorene	ND	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Phenanthrene	0.042	0.043	J	mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Anthracene	0.13	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Fluoranthene	0.58	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Pyrene	0.51	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Benz(a)anthracene	0.63	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Chrysene	0.71	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Benzo(b)fluoranthene	1.4	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Benzo(k)fluoranthene	0.51	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Benzo(a)pyrene	0.95	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Dibenz(a,h)anthracene	0.16	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Benzo(g,h,i)perylene	0.73	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Indeno(1,2,3-cd)pyrene	0.65	0.043		mg/Kg-dry	1	14353	07/23/14 9:47:36 AM
Surr: N-hexadecane	67.9	27-106		%REC	1	14353	07/23/14 9:47:36 AM
Surr: Benzo(e)pyrene	168	34.7-131	S	%REC	1	14353	07/23/14 9:47:36 AM

LVL-3

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

arian Star Workstation - 8400 SampleList Thu Jul 24 08:26:23 2014

ampleList: C:\VarianWS\072314.smp

reated: Wed Jul 23 08:29:32 2014
odified: Wed Jul 23 19:25:01 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	10ppm LL	1	below	1	1.0
	Notes sv110-0562				
3	mb-14353	1	below	2	1.0
	Notes LL-soil				
4	1407965-001A	1	below	3	1.0
	Notes x1 LL-soil, FV=2ml				
5	lcs-14353	1	below	4	1.0
	Notes LL-soil				
6	1407965-001Ams	1	below	5	1.0
	Notes x1 LL-soil, FV=2ml				
7	1407965-001Amsd	1	below	6	1.0
	Notes x1 LL-soil, FV=2ml				
8	mb-14341	1	below	7	1.0
	Notes LL-AQ				
9	lcs-14341	1	below	8	1.0
	Notes LL-AQ				
10	~~1407A44-001A~~ 1407887-001B	1	below	9	1.0
	Notes x1 LL-AQ				
11	1407887-005C	1	below	10	1.0
	Notes x1 LL-AQ				
12	1407887-006C	1	below	11	1.0
	Notes x1 LL-AQ				
13	1407891-002B	1	below	12	1.0
	Notes x1 LL-AQ				
14	1407887-002C	1	below	13	1.0
	Notes x1 LL-AQ				
15	1407887-003C	1	below	14	1.0
	Notes x1 LL-AQ				
16	1407887-004C	1	below	15	1.0
	Notes x1 LL-AQ				
17	1407887-002Cms	1	below	16	1.0
	Notes x1 LL-AQ				
18	1407887-002Cmsd	1	below	17	1.0
	Notes x1 LL-AQ				
19	1407887-001C	1	below	18	1.0
	Notes x2 LL-AQ				
20	1407887-006C	1	below	19	1.0
	Notes x10 LL-AQ				
21					
22	30ppm	1	below	20	1.0
	Notes sv110-0592				
23	mb-14371	1	below	21	1.0
	Notes AQ				
24	lcs-14371	1	below	22	1.0
	Notes AQ				
25	1407A28-001B	1	below	23	1.0
	Notes x1 AQ				
26	1407A28-001Bms	1	below	24	1.0
	Notes x1 AQ				
27	1407A28-001Bmsd	1	below	25	1.0
	Notes x1 AQ				

JC 7.24.14

dam 7/24/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\072314.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

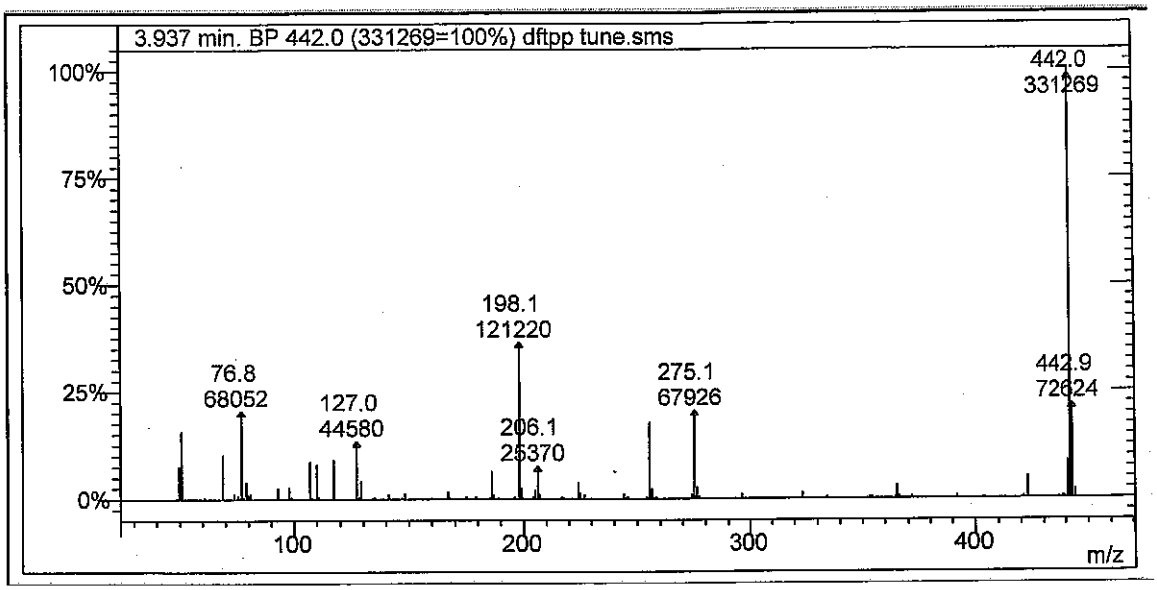
Analyst: David

QA: John Caldwell

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: JM and M.

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 7/23/2014

Injection Time: 8:32

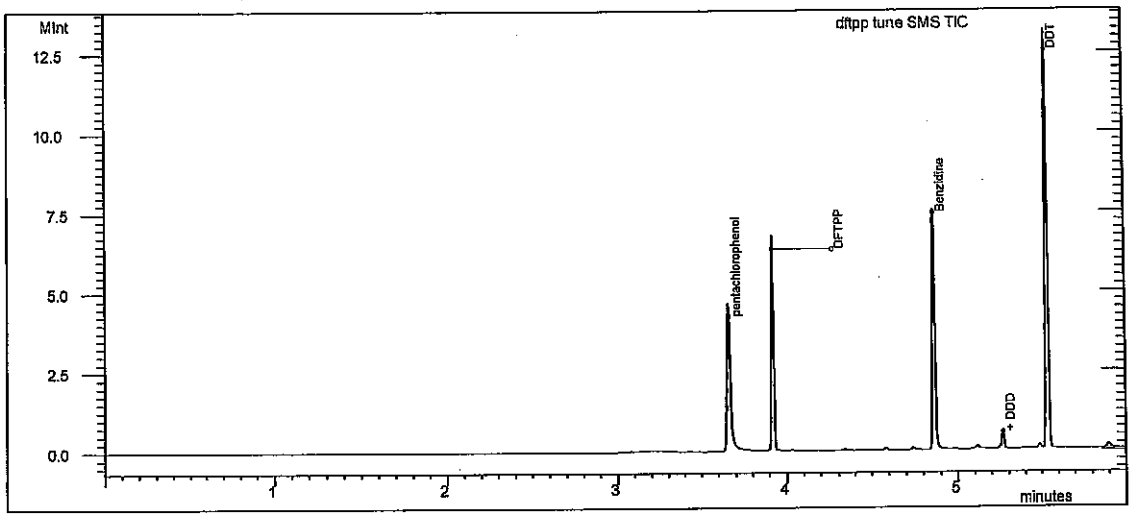
TV 7-23-14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	15.75	PASS
68	<2% of m/z 69	1.21	PASS
69	Present	10.29	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	13.46	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	36.59	PASS
199	5-9% of m/z 198	7.01	PASS
275	10-60% of base peak	20.50	PASS
365	>1% of base peak	3.00	PASS
441	Present and <m/z 443	39.54	PASS
442	>50% of m/z 198	273.28	PASS
443	15-24% of m/z 442	21.92	PASS

dam 7/24/14

Degradation Report

Acquisition Date:	7/23/2014 8:32:23 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.538	3.449E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.267	145233	5
DDE	4.987	3227	6

% Degradation of DDT : = 4.126 < 20

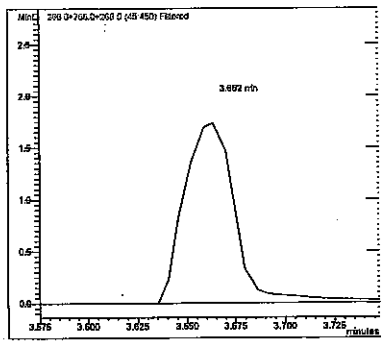
JC 7.23.14

John 7/24/14

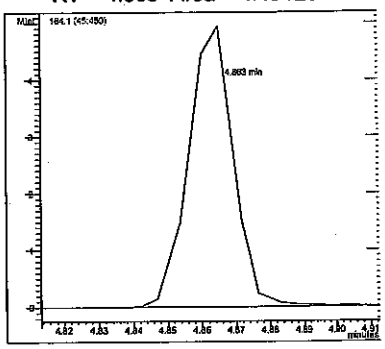
Tailing and Gaussian Factor Report

Acquisition Date: 7/23/2014 8:32:23 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0601

pentachlorophenol
RT = 3.662 Area = 3.205E6



Benzidine
RT = 4.863 Area = 4.494E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.662	1.723	0.811
Benzidine	4.863	0.648	0.955

#	Compound Name	RT	Area
1	pentachlorophenol	3.662	3.205E6
3	Benzidine	4.863	4.494E6

JV 7-23-14

dam 7/24/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\033114 ll crv\10ppm.sms Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
10ppm LL	174389	2.96	608408	4.30	284442	6.76	562979	9.05	504468	13.19	650157	15.43

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7-23-14

7/24/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\july 2014\072314\10ppm LL.SMS Lab Sample ID: 10ppm LL

Instrument ID: ELMO Date Analyzed: 7/23/2014 Time Analyzed: 08:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	174389	2.96	608408	4.30	284442	6.76	562979	9.05	504468	13.19	650157	15.43
UPPER LIMIT	348778	3.46	1.217E6	4.80	568884	7.26	1.126E6	9.55	1.009E6	13.69	1.300E6	15.93
LOWER LIMIT	87195	2.46	304204	3.80	142221	6.26	281490	8.55	252234	12.69	325079	14.93
EPA SAMPLE NO												
mb-14353	174999	2.97	600688	4.30	282234	6.76	544225	9.05	547500	13.20	690962	15.44
1407965-00	188861	2.97	609687	4.30	274492	6.76	509056	9.05	512734	13.19	708334	15.43
lcs-14353	157153	2.97	544261	4.31	239435	6.77	481093	9.06	441695	13.20	645383	15.45
1407965-00	173995	2.97	591906	4.30	277494	6.76	532447	9.05	504708	13.20	734884	15.43
1407965-00	169225	2.98	570207	4.31	280319	6.77	512425	9.06	448116	13.21	791870	15.45
mb-14341	171029	2.97	584503	4.30	256956	6.76	490601	9.05	499903	13.19	734877	15.44
lcs-14341	147299	2.97	499304	4.30	220267	6.76	431617	9.05	399511	13.20	599330	15.44
1407A44-00	140730	2.98	539575	4.31	219954	6.76	390717	9.05	383265	13.19	546925	15.43
1407887-00	166227	2.97	584272	4.30	247211	6.76	457983	9.05	495888	13.19	674651	15.43
1407887-00	99309	2.98	590670	4.31	241337	6.77	478011	9.06	482993	13.20	728622	15.44
1407891-00	149619	2.97	516633	4.31	229212	6.76	438097	9.05	462404	13.20	642717	15.44
1407887-00	163813	2.98	561901	4.30	245401	6.76	409500	9.05	421126	13.19	578966	15.44
1407887-00	167067	2.97	566297	4.30	245211	6.76	511655	9.04	543169	13.19	770791	15.43
1407887-00	161705	2.97	541006	4.30	232433	6.76	503078	9.05	527957	13.19	737990	15.43
1407887-00	158685	2.98	554101	4.30	226765	6.76	491724	9.05	500122	13.20	690201	15.44
1407887-00	161126	2.98	554155	4.31	224489	6.77	459498	9.05	453332	13.20	634443	15.44
1407887-00	153397	2.98	566536	4.30	235067	6.76	494136	9.05	517833	13.19	711363	15.43

7-24-14

Vdam 7/24/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1407887-00	168756	2.98	628801	4.31	271118	6.76	549674	9.05	592612	13.20	817457	15.44

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

7.24.14

dam 7/24/14

LABORATORY CONTROL SAMPLE REPORT

Data File: c:\varianws\data\10ppm ll.sms **Acquisition Date:** 7/23/2014 8:46

Comment: sv110-0562

SampleID: 10ppm LL **Analyst:** John D Caldwell

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.62	ng	10.00	96 %	80 - 120	PASS
4)	2-Methylnaphthalene	10.19	ng	10.00	102 %	80 - 120	PASS
5)	1-Methylnaphthalene	10.29		10.00	103 %	80 - 120	PASS
6)	Acenaphthylene	9.95	ng	10.00	99 %	80 - 120	PASS
8)	Acenaphthene	9.89	ng	10.00	99 %	80 - 120	PASS
9)	n-hexadecane	68.75		67.50	102 %	80 - 120	PASS
10)	Fluorene	10.35	ng	10.00	104 %	80 - 120	PASS
12)	Phenanthrene	9.20	ng	10.00	92 %	80 - 120	PASS
13)	Anthracene	9.19	ng	10.00	92 %	80 - 120	PASS
14)	Fluoranthene	9.60	ng	10.00	96 %	80 - 120	PASS
15)	Pyrene	9.34	ng	10.00	93 %	80 - 120	PASS
16)	Benz[a]anthracene	9.35	ng	10.00	93 %	80 - 120	PASS
18)	Chrysene	9.67	ng	10.00	97 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.72	ng	10.00	97 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.84	ng	10.00	98 %	80 - 120	PASS
21)	Benzo(e)pyrene	15.75		15.00	105 %	80 - 120	PASS
22)	Benzo[a]pyrene	10.04	ng	10.00	100 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.75	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	10.41	ng	10.00	104 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.50	ng	10.00	95 %	80 - 120	PASS

* indicates Internal Standard.

7.23.14

7/24/14

arian Star Workstation - 8400 SampleList Mon Mar 31 10:59:14 2014

ampleList: C:\VarianWS\033114.smp

reated: Mon Mar 31 09:23:44 2014
odified: Mon Mar 31 10:58:50 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	RB-LL PAH	1	below	1	1.0
	Notes sv110-0564				
3					
4	0.25ppm	1	below	2	1.0
	Notes sv110-0557				
5	0.50ppm	1	below	3	1.0
	Notes sv110-0558				
6	1.0ppm	1	below	4	1.0
	Notes sv110-0559				
7	2.0ppm	1	below	5	1.0
	Notes sv110-0560				
8	5.0ppm	1	below	6	1.0
	Notes sv110-0561				
9	10ppm	1	below	7	1.0
	Notes sv110-0562				
10	20ppm	1	below	8	1.0
	Notes sv110-0563				
11	10ppm ICV	1	below	9	1.0
	Notes sv110-0565				
12					
13	rb-8270	1	below	10	1.0
	Notes sv110-0576				
14					
15	2.5ppm crv	1	below	11	1.0
	Notes sv110-0566				
16	5ppm crv	1	below	12	1.0
	Notes sv110-0567				
17	10ppm crv	1	below	13	1.0
	Notes sv110-0568				
18	20ppm crv	1	below	14	1.0
	Notes sv110-0569				
19	30ppm crv	1	below	15	1.0
	Notes sv110-0570				
20	40ppm crv	1	below	16	1.0
	Notes sv110-0571				
21	50ppm crv	1	below	17	1.0
	Notes sv110-0572				
22	80ppm crv	1	below	18	1.0
	Notes sv110-0573				
23	100ppm crv	1	below	19	1.0
	Notes sv110-0574				
24	120ppm crv	1	below	20	1.0
	Notes sv110-0575				
25	50ppm icv	1	below	21	1.0
	Notes sv110-0577				
26					

dam 4/1/14

JV 4.1.14

)irectory for Data Files: C:\VarianWS\data

Data File Names: %s

:reate and update a new RecalcList: c:\varianws\033114.rcl.

8270C
LL-PAH
Calibration Summary

Instrument: ELMO **Date:** 3/31/14

Calibration Name: 8270 PAH 033114

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
n-hexadecane (Surr)	N/A	N/A	☐	☑	
Benzo(e)pyrene (Surr)	N/A	N/A	☐	☑	
Naphthalene	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
Fluorene	☑	☐	☐	☑	
Phenanthrene	☑	☐	☐	☑	
Anthracene	☑	☐	☐	☑	
Fluoranthene	☑	☐	☐	☑	
Pyrene	☑	☐	☐	☑	
Benz[a]anthracene	☑	☐	☐	☑	
Chrysene	☑	☐	☐	☑	
Benzo(b)fluoranthene	☑	☐	☐	☑	
Benzo[k]fluoranthene	☑	☐	☐	☑	
Benzo[a]pyrene	☑	☐	☐	☑	
Indeno[1,2,3-cd]pyrene	☑	☐	☐	☑	
Dibenz[a,h]anthracene	☑	☐	☐	☑	
Benzo[g,h,i]perylene	☑	☐	☐	☑	

Analyst: David

QA:

Additional Comments:

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

dam 4/1/14

Tune Criteria 525

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

JC 4-1-14

Lab File ID: dftpp tune.sms Injection Date: 3/31/2014

Instrument ID: ELMO Injection Time: 10:03

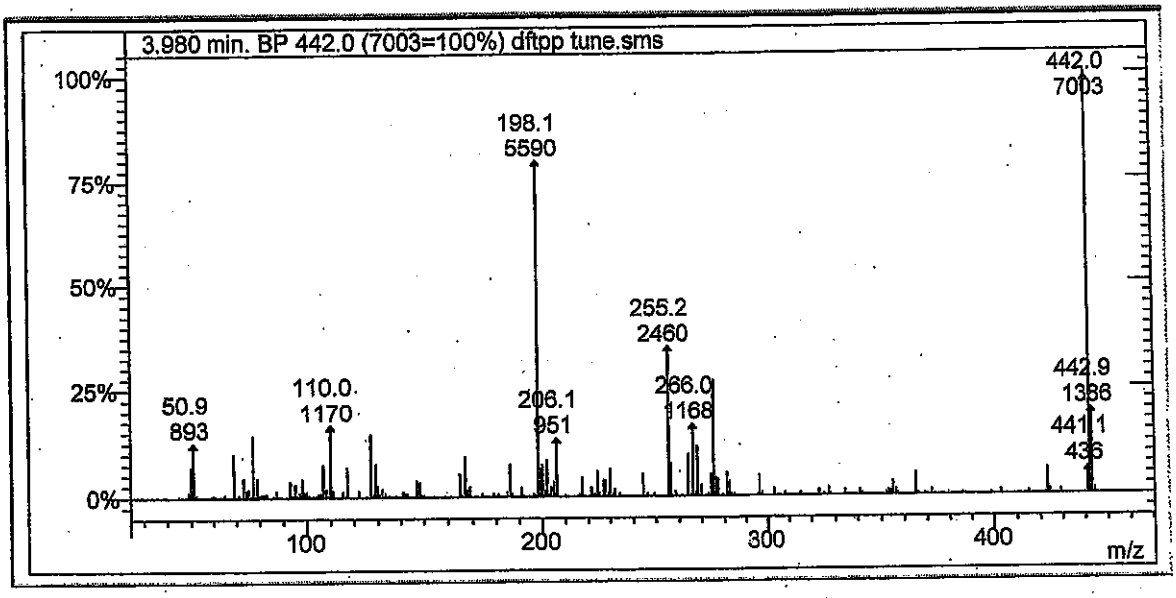
GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
51	10-80% of base peak	12.8	
68	<2% of m/z 69	0.0	
69	Present	10.2	
70	<2% of m/z 69	0.0	
127	10-80% of base peak	14.5	
197	<2% of m/z 198	0.4 (0.5)	198
198	Base peak	79.8	
199	5-9% of m/z 198	6.5 (8.2)	198
275	10-60% of base peak	26.9	
365	>1% of base peak	5.0	
441	Present and <m/z 443	6.2 (31.5)	443
442	>50% of m/z 198	100.0 (125.3)	198
443	15-24% of m/z 442	19.8	

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 RB-LL PAH	RB-LL PAH	h:\elmo\data\2014\march 2014\033114 ll crv\RB-LL PAH.SMS	3/31/2014 10:18
20.25ppm	0.25ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.25ppm.SMS	3/31/2014 10:41
30.50ppm	0.50ppm	h:\elmo\data\2014\march 2014\033114 ll crv\0.50ppm.SMS	3/31/2014 11:04
41.0ppm	1.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\1.0ppm.SMS	3/31/2014 11:27
52.0ppm	2.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\2.0ppm.SMS	3/31/2014 11:51
65.0ppm	5.0ppm	h:\elmo\data\2014\march 2014\033114 ll crv\5.0ppm.SMS	3/31/2014 12:14
710ppm	10ppm	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS	3/31/2014 12:37
820ppm	20ppm	h:\elmo\data\2014\march 2014\033114 ll crv\20ppm.SMS	3/31/2014 13:01
910ppm ICV	10ppm ICV	h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS	3/31/2014 13:24

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 3/31/2014

Injection Time: 10:03

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	12.75	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	10.15	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	14.49	PASS
197	<2% of m/z 198	0.50	PASS
198	Base peak	79.82	PASS
199	5-9% of m/z 198	8.16	PASS
275	10-60% of base peak	26.95	PASS
365	>1% of base peak	5.01	PASS
441	Present and <m/z 443	31.46	PASS
442	>50% of m/z 198	125.28	PASS
443	15-24% of m/z 442	19.79	PASS

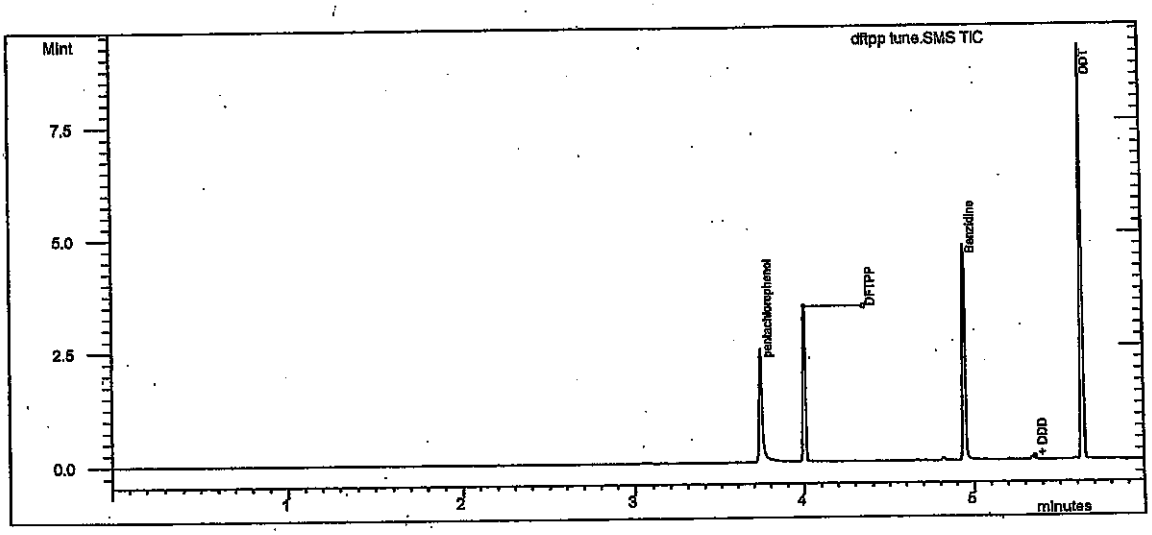
dwn 4/1/14

30

4<(<60

Degradation Report

Acquisition Date:	3/31/2014 10:03:52 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.634	2.167E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.358	19269	5
DDE	5.071	1387	6

% Degradation of DDT: = .944

✓ dam. 4/1/14

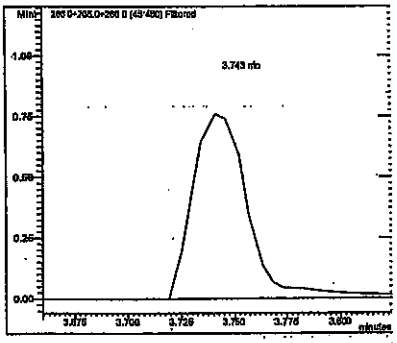
JV 4.1.14

Tailing and Gaussian Factor Report

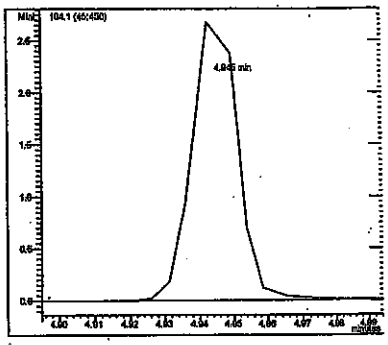
Acquisition Date: 3/31/2014 10:03:52 AM Data File Name: C:\VarianWS\data\dftpp tune.SMS

Inst. Method: C:\VarianWS\Methods\dftpp.mth Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.743 Area = 1.423E6



Benzidine
RT = 4.945 Area = 2.530E6



Compound Name	RT	TPP	GPF
pentachlorophenol	3.743	1.595	0.814
Benzidine	4.945	1.407	1.050

#	Compound Name	RT	Area
1	pentachlorophenol	3.743	1.423E6
3	Benzidine	4.945	2.530E6

dlm 4/1/14

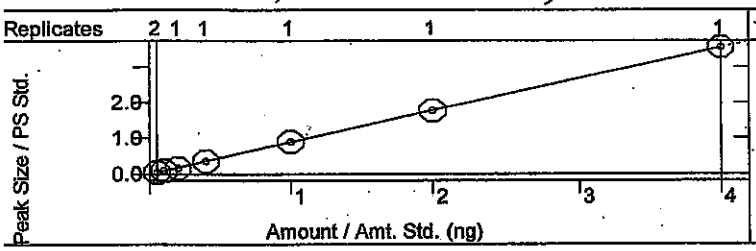
JC 4/1/14

Calibration Curves Report

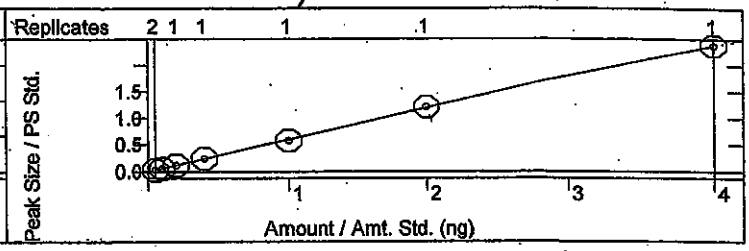
dkm 4/1/14

Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

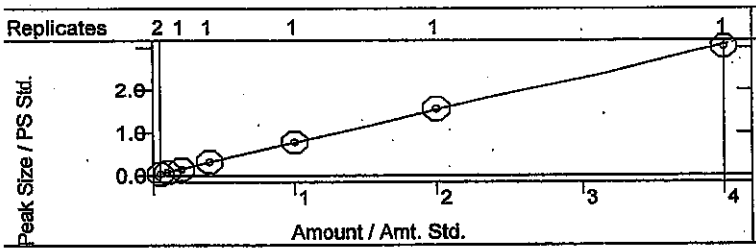
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.915%, Coeff. Det.(r2): 0.999956
y = +0.8905x -2.1793e-4



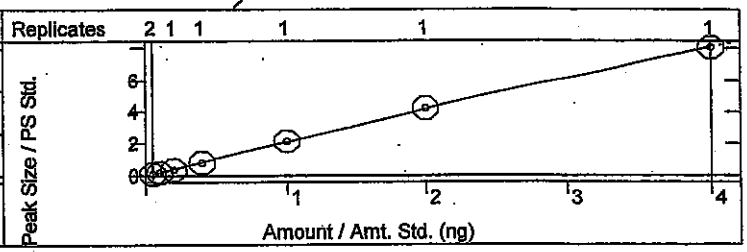
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 1.576%, Coeff. Det.(r2): 0.999859
y = +0.5970x -4.2274e-4



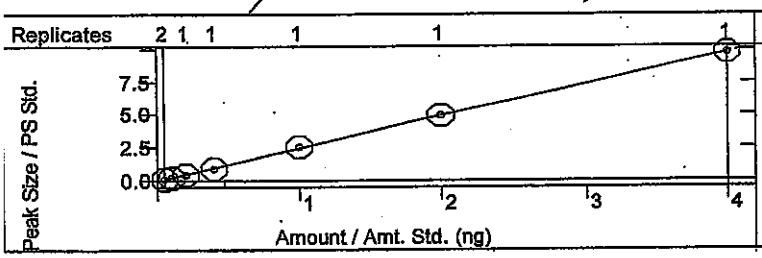
1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.760%, Coeff. Det.(r2): 0.999738
y = +0.7662x +0.0033



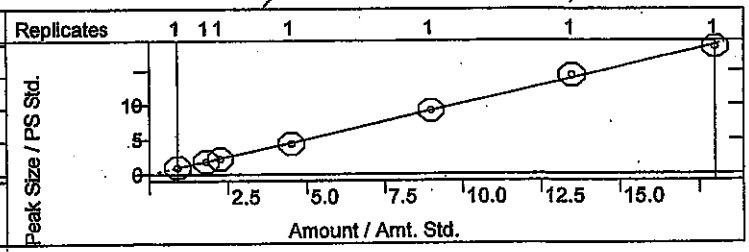
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.959%, Coeff. Det.(r2): 0.999807
y = -0.0301x2 +2.1411x -0.0148



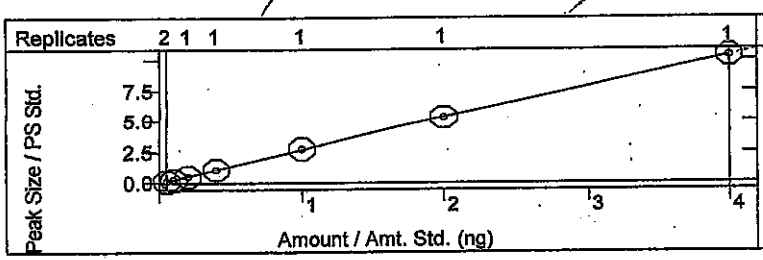
Acenaphthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999777
y = -0.0058x2 +2.4702x -0.0116



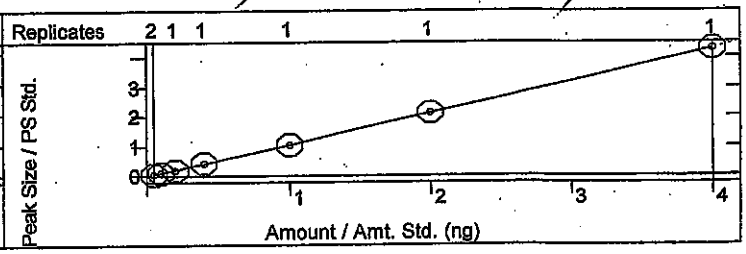
n-hexadecane
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.569%, Coeff. Det.(r2): 0.998691
y = +0.0040x2 +0.9678x +0.1161



Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.590%, Coeff. Det.(r2): 0.999942
y = -0.0450x2 +2.7595x -0.0062



Phenanthrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.238%, Coeff. Det.(r2): 0.999952
y = +0.0061x2 +1.0478x +2.2587e-4



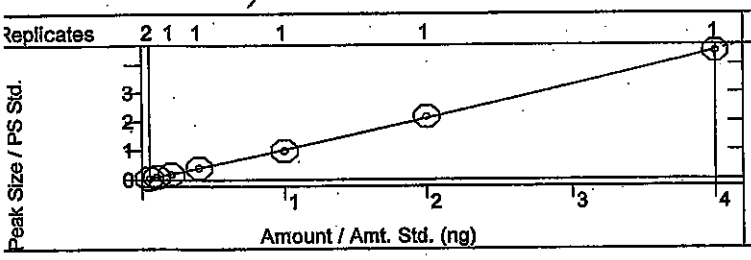
Calibration Curves Report

dam 4/1/14

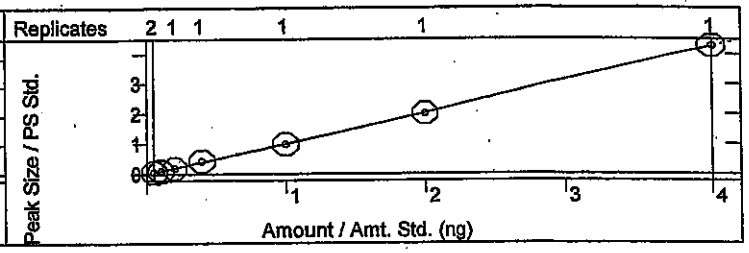
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SY 4/1/14

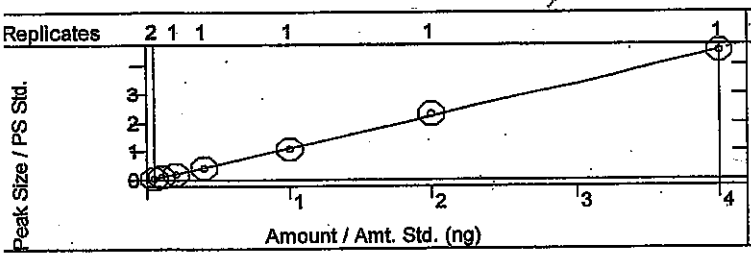
Anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.968%, Coeff. Det.(r2): 0.999663
y = +0.0299x2 +0.9988x -0.0015



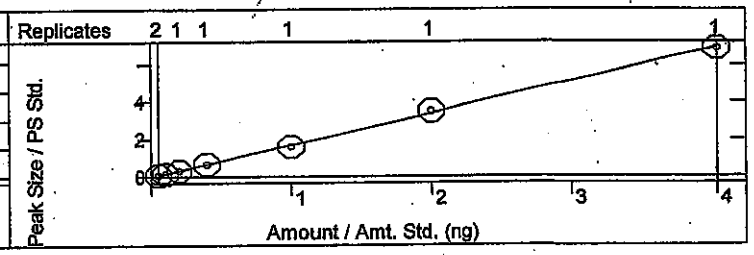
Fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.406%, Coeff. Det.(r2): 0.999868
y = +0.0278x2 +0.9567x +0.0031



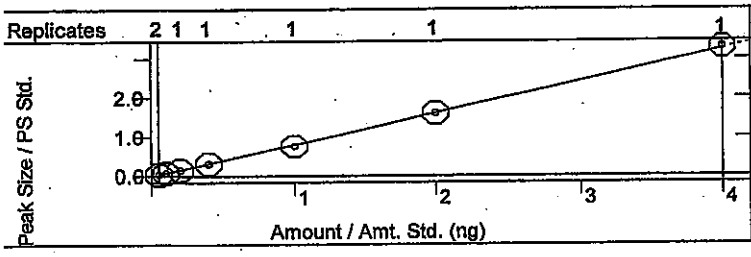
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.097%, Coeff. Det.(r2): 0.999489
y = +0.0062x2 +1.1077x -0.0065



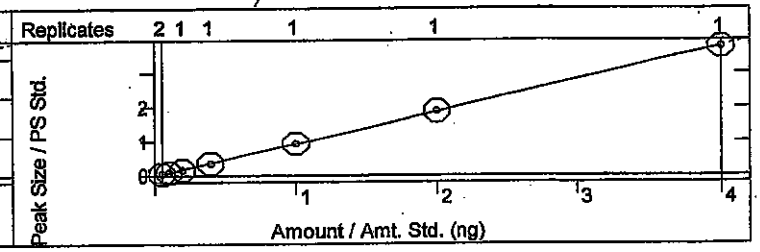
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.150%, Coeff. Det.(r2): 0.999356
y = +0.0117x2 +1.6800x -0.0103



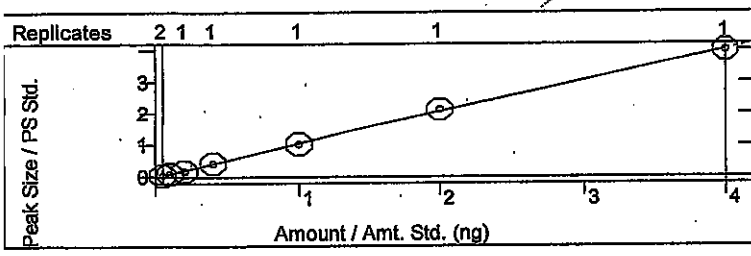
Chrysene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.876%, Coeff. Det.(r2): 0.999786
y = +0.8091x -0.0044



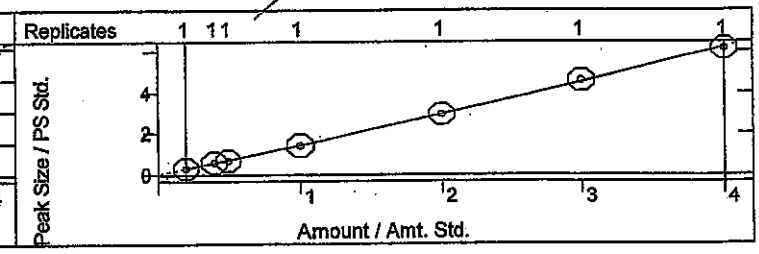
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.544%, Coeff. Det.(r2): 0.999909
y = +0.0038x2 +0.9278x -4.9546e-4



Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.562%, Coeff. Det.(r2): 0.999551
y = -0.0175x2 +1.0742x -0.0096



Benzo(e)pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.536%, Coeff. Det.(r2): 0.999619
y = +0.0459x2 +1.3552x +0.0401



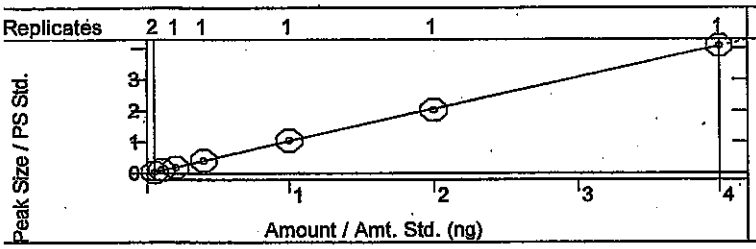
Calibration Curves Report

dam 4/1/14

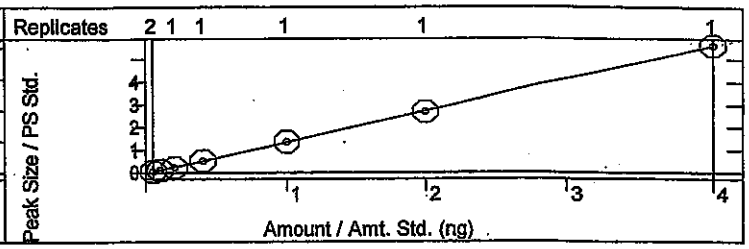
Method:	c:\varianws\methods\8270 pah 033114.mth		
Recalc Method:	...pah 033114.mth	Last Calibration:	3/31/2014 1:20 PM
Sample List:	N/A	Cmpd. Table Updated:	3/31/2014 1:27 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

DV 4/1/14

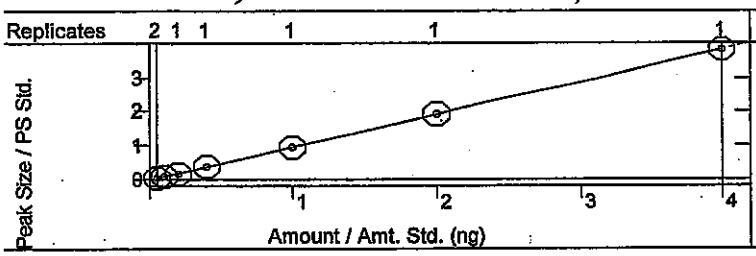
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.52%, Coeff. Det.(r2): 0.999823
y = -0.0088x2 +1.0513x -0.0035



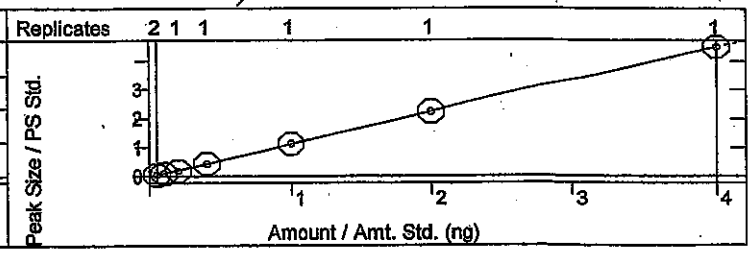
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.077%, Coeff. Det.(r2): 0.999904
y = +0.0205x2 +1.3236x -0.0059



Dibenz[a,h]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.817%, Coeff. Det.(r2): 0.999970
y = +0.0012x2 +0.9557x -0.0059



Benzo[g,h,i]perylene
Curve Fit: Quadratic, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.907%, Coeff. Det.(r2): 0.999938
y = +0.0029x2 +1.1148x -0.0056



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 3/31/2014 3/31/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 13:01 13:01

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Index: 1	Level: 2	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 2	Level: 3	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 3	Level: 4	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 4	Level: 5	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 5	Level: 6	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 6	Level: 7	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates
Index: 7	Level: 8	Replicate: 1	Acquired: 3/31/2014 13:01	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Naphthalene	0.892	0.961	0.811	0.882	0.899	0.887	0.893	1.0000	0.889	4.9	PASS	PASS
2-Methylnaphthalene	0.595	0.593	0.591	0.605	0.578	0.605	0.597	0.9999	0.595	1.6	PASS	PASS
1-Methylnaphthalene	0.804	0.827	0.740	0.802	0.781	0.781	0.757	0.9997	0.784	3.8	PASS	PASS
Acenaphthylene	2.106	1.964	1.856	1.993	2.146	2.101	2.008	0.9998	2.025	5.0	PASS	PASS
Acenaphthene	2.405	2.416	2.260	2.262	2.555	2.454	2.440	0.9998	2.399	4.4	PASS	PASS
n-hexadecane	1.154	1.033	0.988	0.984	1.020	1.066	1.027	0.9987	1.039	5.6	PASS	PASS
Fluorene	2.754	2.675	2.610	2.688	2.767	2.653	2.578	0.9999	2.675	2.6	PASS	PASS
Phenanthrene	1.071	1.093	0.959	1.083	1.048	1.065	1.071	1.0000	1.056	4.2	PASS	PASS
Anthracene	0.993	1.023	0.932	1.027	0.990	1.087	1.113	0.9997	1.024	6.0	PASS	PASS
Fluoranthene	1.029	0.978	0.915	1.061	0.976	1.005	1.071	0.9999	1.005	5.4	PASS	PASS
Pyrene	1.023	1.103	0.999	1.065	1.078	1.156	1.123	0.9995	1.078	5.1	PASS	PASS
Benz[a]anthracene	1.505	1.596	1.615	1.658	1.598	1.761	1.714	0.9994	1.635	5.1	PASS	PASS
Chrysene	0.763	0.793	0.758	0.781	0.771	0.805	0.819	0.9998	0.784	2.9	PASS	PASS

dam 4/1/14

JO 4/1/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Benzo(b)fluoranthene	0.977	0.950	0.847	0.902	0.943	0.945	0.940	0.9999	0.929	4.5	PASS	PASS
Benzo[k]fluoranthene	0.986	1.004	0.870	1.061	1.026	1.065	0.996	0.9996	1.001	6.6	PASS	PASS
Benzo(e)pyrene	1.590	1.512	1.398	1.425	1.466	1.534	1.535	0.9996	1.494	4.5	PASS	PASS
Benzo[a]pyrene	0.820	1.220	0.984	1.040	1.058	1.015	1.018	0.9998	1.022	11.5	PASS	PASS
Indeno[1,2,3-cd]pyrene	1.238	1.322	1.175	1.335	1.369	1.348	1.406	0.9999	1.313	6.1	PASS	PASS
Dibenz[a,h]anthracene	0.882	0.902	0.852	0.962	0.952	0.958	0.958	1.0000	0.924	4.8	PASS	PASS
Benzo[g,h,i]perylene	1.054	1.094	0.981	1.103	1.134	1.115	1.125	0.9999	1.087	4.9	PASS	PASS
									Average %RSD	5.0		

dam 4/1/14

JC 4.1.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C LL PAH

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\march 2014\033114 ll crv\10ppm.SMS Lab Sample ID: 10ppm

Instrument ID: ELMO Date Analyzed: 3/31/2014 Time Analyzed: 12:37

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	128874	3.08	482844	4.42	232824	6.88	449347	9.17	417910	13.32	608631	15.60
UPPER LIMIT	257748	3.58	965688	4.92	465648	7.38	898694	9.67	835820	13.82	1.217E6	16.10
LOWER LIMIT	64437	2.58	241422	3.92	116412	6.38	224674	8.67	208955	12.82	304316	15.10
EPA SAMPLE NO												
RB-LL PAH	139943	3.07	496550	4.41	244966	6.88	478412	9.17	454983	13.32	608793	15.60
0.25ppm	157702	3.07	566102	4.41	264273	6.88	579744	9.17	589922	13.32	768058	15.59
0.50ppm	158286	3.07	562473	4.41	278516	6.87	481327	9.17	453184	13.31	582429	15.59
1.0ppm	165582	3.07	596516	4.41	293005	6.88	542923	9.17	502540	13.31	700376	15.59
2.0ppm	146006	3.07	543960	4.41	264965	6.88	497729	9.17	506445	13.32	701527	15.59
5.0ppm	151812	3.07	545948	4.41	251156	6.88	503195	9.17	477750	13.32	652947	15.59
20ppm	135403	3.08	494469	4.41	236423	6.88	437553	9.17	424145	13.32	605759	15.60
10ppm ICV	143259	3.07	515552	4.41	262611	6.88	451384	9.17	461808	13.32	647380	15.60

dam 4/1/14

JC 4/1/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 4/1/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC 4/1/14

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\elmo\data\2014\march 2014\033114 ll crv\10ppm ICV.SMS **Acquisition Date:** 3/31/2014 13:24

Comment: sv110-0565

SampleID: 10ppm ICV **Analyst:** David Melius

Calibration File: H:\Elmo\data\2014\March 2014\033114 LL CRV\10ppm.SMS

Cal. Sample Dates: First: 3/31/2014 13:01 **Last:** 3/31/2014 13:01

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* 1,4-Dichlorobenzene-d4	5.00	ng	5.00	100 %	80 - 120	PASS
2)	* Naphthalene-d8 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
7)	* Acenaphthene-d10 (I.S)	5.00	ng	5.00	100 %	80 - 120	PASS
11)	* Phenanthrene-d10	5.00	ng	5.00	100 %	80 - 120	PASS
17)	* Chrysene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
23)	* Perylene-d12 I.S	5.00	ng	5.00	100 %	80 - 120	PASS
3)	Naphthalene	9.47	ng	10.00	95 %	80 - 120	PASS
4)	2-Methylnaphthalene	9.52	ng	10.00	95 %	80 - 120	PASS
5)	1-Methylnaphthalene	9.61		10.00	96 %	80 - 120	PASS
6)	Acenaphthylene	8.78	ng	10.00	88 %	80 - 120	PASS
8)	Acenaphthene	8.48	ng	10.00	85 %	80 - 120	PASS
9)	n-hexadecane	59.43		67.50	88 %	80 - 120	PASS
10)	Fluorene	8.82	ng	10.00	88 %	80 - 120	PASS
12)	Phenanthrene	9.78	ng	10.00	98 %	80 - 120	PASS
13)	Anthracene	10.04	ng	10.00	100 %	80 - 120	PASS
14)	Fluoranthene	9.97	ng	10.00	100 %	80 - 120	PASS
15)	Pyrene	9.07	ng	10.00	91 %	80 - 120	PASS
16)	Benz[a]anthracene	9.40	ng	10.00	94 %	80 - 120	PASS
18)	Chrysene	9.63	ng	10.00	96 %	80 - 120	PASS
19)	Benzo(b)fluoranthene	9.57	ng	10.00	96 %	80 - 120	PASS
20)	Benzo[k]fluoranthene	9.48	ng	10.00	95 %	80 - 120	PASS
21)	Benzo(e)pyrene	14.52		15.00	97 %	80 - 120	PASS
22)	Benzo[a]pyrene	9.29	ng	10.00	93 %	80 - 120	PASS
24)	Indeno[1,2,3-cd]pyrene	9.84	ng	10.00	98 %	80 - 120	PASS
25)	Dibenz[a,h]anthracene	9.44	ng	10.00	94 %	80 - 120	PASS
26)	Benzo[g,h,i]perylene	9.49	ng	10.00	95 %	80 - 120	PASS

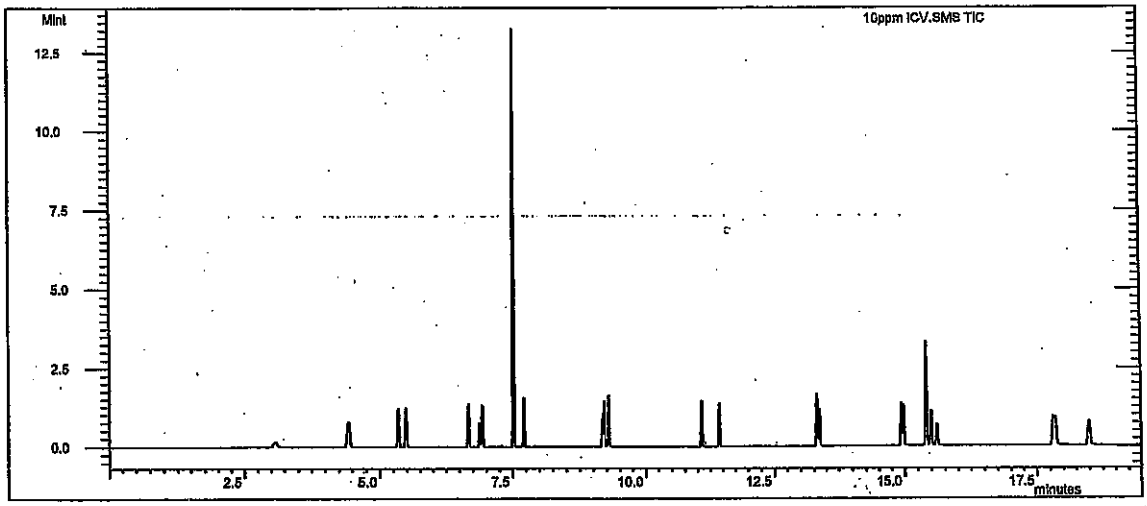
* indicates Internal Standard.

dam 4/1/14

TC 4-1-14

8270C Report

Sample Name:	10ppm ICV	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 pah 033114.mth	**Inj. Notes:**	sv110-0565	**Acquisition Date:**	3/31/2014 1:24:27 PM
Calculation Date:	3/31/2014 1:43:58 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	3.073	211	Identified	143259	5.000
Naphthalene-d8 (I.S)	4.412	349	Identified	515552	5.000
Acenaphthene-d10 (I.S)	6.878	606	Identified	262611	5.000
Phenanthrene-d10	9.172	845	Identified	451384	5.000
Chrysene-d12 I.S	13.323	1272	Identified	461808	5.000
Perylene-d12 I.S	15.598	1506	Identified	647380	5.000
Naphthalene	4.439	352	Identified	869752	9.474
2-Methylnaphthalene	5.348	447	Identified	585644	9.517
1-Methylnaphthalene	5.488	461	Identified	760874	9.609
Acenaphthylene	6.669	585	Identified	959567	8.785
Acenaphthene	6.930	612	Identified	1.093E6	8.483
n-hexadecane	7.519	673	Identified	3.199E6	59.431
Fluorene	7.714	693	Identified	1.240E6	8.823
Phenanthrene	9.207	849	Identified	935199	9.775
Anthracene	9.286	857	Identified	958926	10.038
Fluoranthene	11.071	1042	Identified	912247	9.967
Pyrene	11.432	1079	Identified	934202	9.069
Benz[a]anthracene	13.309	1271	Identified	1.473E6	9.403
Chrysene	13.365	1276	Identified	717642	9.631
Benzo(b)fluoranthene	14.936	1437	Identified	1.158E6	9.571
Benzo[k]fluoranthene	14.979	1441	Identified	1.272E6	9.478
Benzo(e)pyrene	15.413	1487	Identified	2.825E6	14.522
Benzo[a]pyrene	15.499	1496	Identified	1.242E6	9.287
Indeno[1,2,3-cd]pyrene	17.814	1736	Identified	1.734E6	9.838

Compound Name	RT	Scan	Qual Result	Area	Amount
Dibenz[a,h]anthracene	17.850	1740	Identified	1.167E6	9.439
Benzo[g,h,i]perylene	18.492	1807	Identified	1.373E6	9.488

****
Revision Log
****

3/31/2014 1:43 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 pah 033114.mth'

Vg 8-13-14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408347**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Lab ID: 1408347-001
Client Sample ID: FFOR-CF-0042
Collection Date: 8/7/2014 10:26:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/12/2014							
PERCENT MOISTURE							Analyst: **KJH**
Percent Moisture	9.5	1.0		wt%	1	R20489	8/8/2014 11:59:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-8-14					Thermometer ID: P-MOIST THERM-4			
Oven Name: Hephaestus	Analyst:KJH				Thermometer Exp Date: 7/17/2015			
Start time: 8-8-14 11:59am	Start Temp: 110C				Reviewed by: KJH 8-13-14			
End time: 8-11-14 1:31pm	End Temp: 110C							
HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408347-001a	32.1	39.62				7.4900		#VALUE!
MeOH Kits								#VALUE!
1408347-001a	25.7	39.43	1.00	2.00	2.00	13.7300	0.0000	0.7283
Pmoist								#VALUE!
1408347-001a			1.31	23.79	21.65		9.5196	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID #

1408347-001a

$\left(\frac{23.79 - 21.65}{23.79 - 1.31}\right) \times 100$

9.5196

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID #

1408347-001a

$\frac{10}{13.73} = 0.7283$

KJH 8/13/14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by:__AF__and__CMS___

JR 8/12/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408347**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Lab ID: 1408347-001
Client Sample ID: FFOR-CF-0042
Collection Date: 8/7/2014 10:26:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/12/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	590	9.9		mg/Kg	1	14665	8/11/2014 2:21:17 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	14665	8/11/2014 2:21:17 PM
Surr: DNOP	93.5	57.9-140		%REC	1	14665	8/11/2014 2:21:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Start Date: 8/8/2014 8:49:34 AM
Prep End Date:

Reviewed by

Prep Batch ID: **14665** Prep Code: **8015_S_PREP** Technician: Janice Easley

Initial Temp: °C Final Temp: °C

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14665		Soil			10	0	0	10	1.000	8/8/2014	8/8/14
LCS-14665		Soil			10	0	0	10	1.000	8/8/2014	
1408347-001A	FFOR-CF-0042	MeOH (Soil)			10 10.15	0	0	10	1.000	8/8/2014	
1408347-001AMS		MeOH (Soil)			10 10.08	0	0	10	1.000	8/8/2014	
1408347-001AMSD		MeOH (Soil)			10 10.03	0	0	10	1.000	8/8/2014	
1408375-001A	Control 36.12.691-107.	MeOH (Soil)			10 9.96	0	0	10	1.000	8/8/2014	
1408375-002A	36.21332-107.51155	MeOH (Soil)			10 10.06	0	0	10	1.000	8/8/2014	
1408375-003A	36.21339-107.51171	MeOH (Soil)			10 10.01	0	0	10	1.000	8/8/2014	
1408375-004A	36.21648-107.51319	MeOH (Soil)			10 10.03	0	0	10	1.000	8/8/2014	
1408375-005A	36.21739-107.51418	MeOH (Soil)			10 10.15	0	0	10	1.000	8/8/2014	
1408375-006A	36.21610-107.51329	MeOH (Soil)			10 9.96	0	0	10	1.000	8/8/2014	
1408381-001A	Sample#1 16FT	Soil			10 10.19	0	0	10	1.000	8/8/2014	
1408381-002A	Sample#2 13FT	Soil			10 9.93	0	0	10	1.000	8/8/2014	
1408381-003A	Sample#3 14FT	Soil			10 10.04	0	0	10	1.000	8/8/2014	
1408381-004A	Sample#4 13FT	Soil			10 10.03	0	0	10	1.000	8/8/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8015-14006	5,000 ppm Diesel, 500 ppm DNOP	LCS	26102	Container-01 of 01	100	µL
~~ST8015-14007~~ ST8015-14009	1,000 DNOP	SAMP	26103	Container-01 of 01	100	µL

Sequence Print

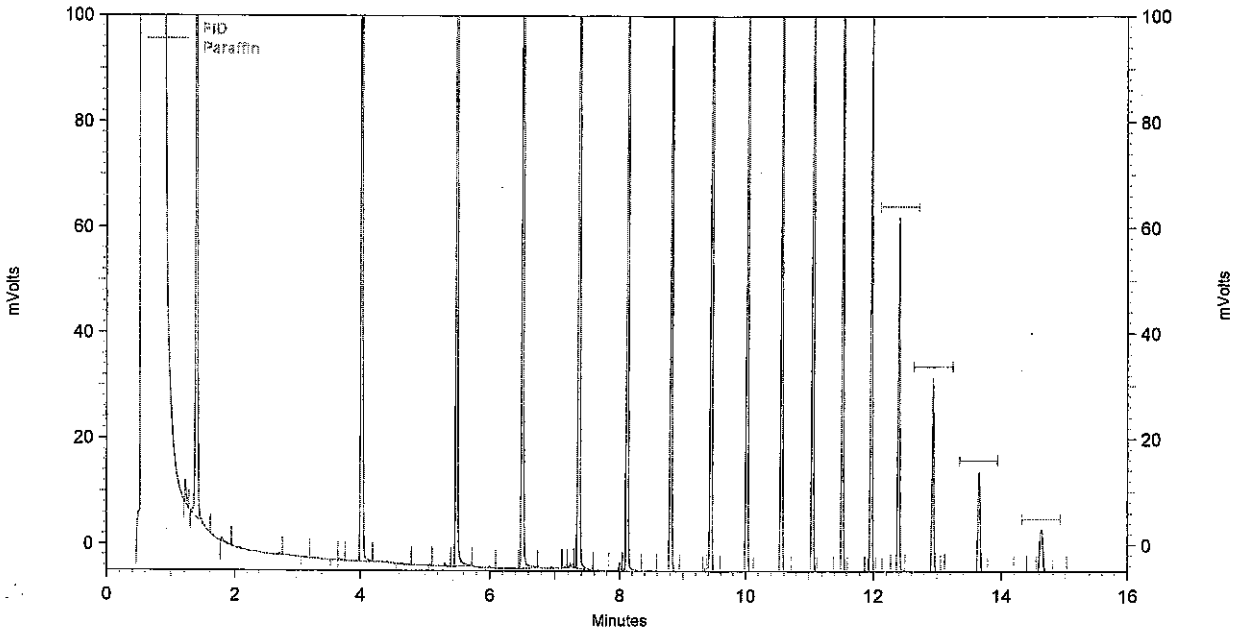
BN 8.11.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408347-001A	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408347-001A <D>.dat	1
6	Unknown	0	1	1408347-001AMS	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408347-001A MS <D>.dat	1
7	Unknown	0	1	1408347-001AMSD	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408347-001A MSD <D>.dat	1
8	Unknown	0	1	1408381-001A	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408381-001A <D>.dat	1
9	Unknown	0	1	1408381-002A	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408381-002A <D>.dat	1
10	Unknown	0	1	1408381-003A	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408381-003A <D>.dat	1
11	Unknown	0	1	1408381-004A	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408381-004A <D>.dat	1
12	Unknown	0	1	100 PPM CCV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV <D>.dat	1

8/12/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-11-14 1-06-52 PM.dat
Aquired: 8/11/2014 1:12:13 PM



FID Results

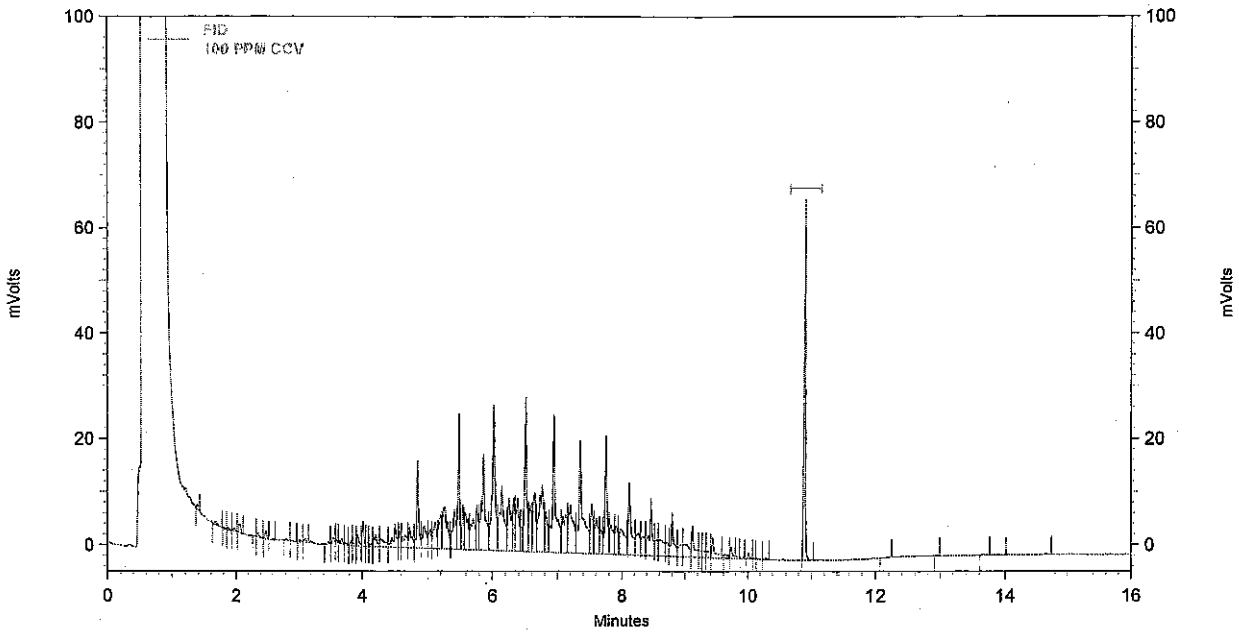
Name	Retention Time	Area	ug/ml
C8	1.381	329795	0.000
C10	4.011	365382	0.000
C12	5.477	354009	0.000
C14	6.496	339363	0.000
C16	7.349	322699	0.000
C18	8.107	306389	0.000
C20	8.795	294855	0.000
C22	9.424	281244	0.000
C24	10.005	271509	0.000
C26	10.544	276094	0.000
C28	11.051	269572	0.000
C30	11.520	234127	0.000
C32	11.963	168008	0.000
C34	12.395	104914	0.000
C36	12.928	67894	0.000
C38	13.643	46727	0.000
C40	14.624	29208	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM CCV 08-11-14 1-28-20 PM.dat
Aquired: 8/11/2014 1:33:57 PM



FID Results

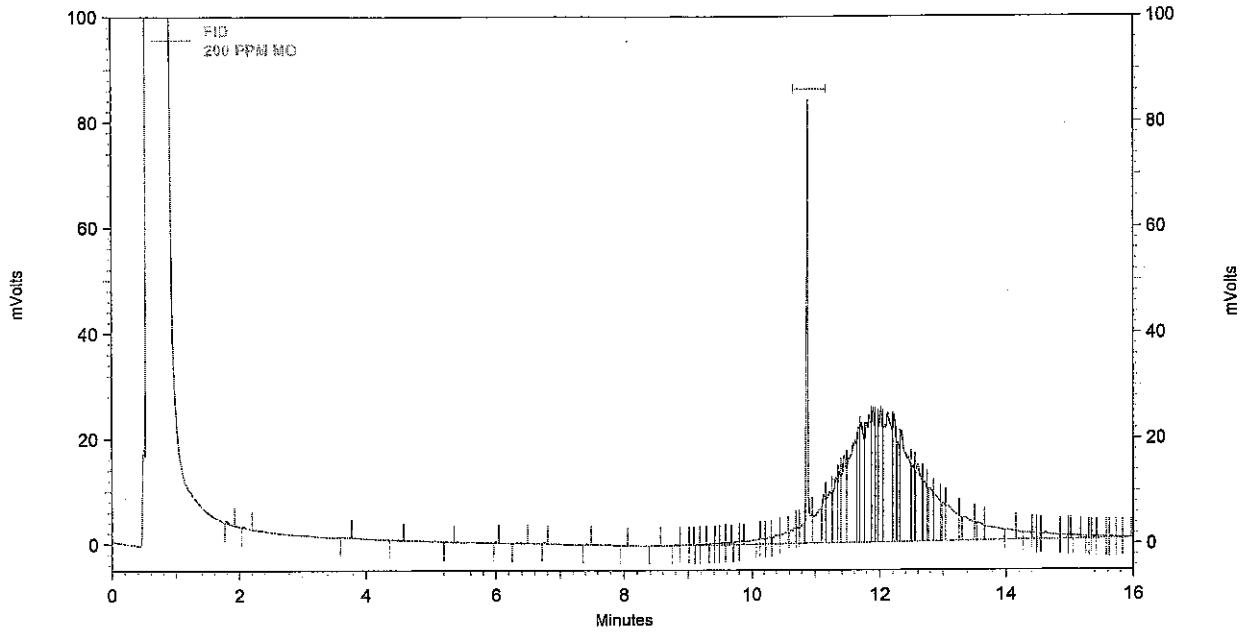
Name	Retention Time	Area	ug/ml
DNOP	10.880	96688	9.823
DRO		1587661	103.034
MRO		2275	1.239

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081114\200 PPM MO 08-11-14 1-50-04 PM.dat
Aquired: 8/11/2014 1:55:21 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	141268	14.211
DRO		47068	6.815
MRO		1831434	223.160

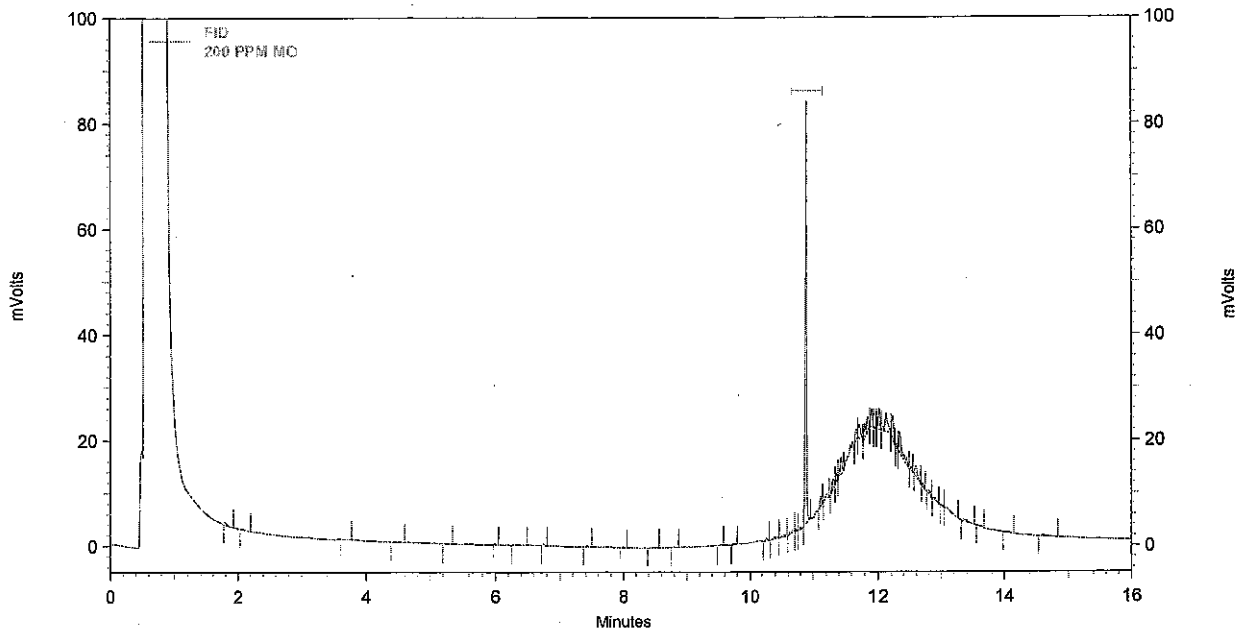
Analyst BW

Reviewed By JT

14.211
-11.34
2.87
+223.160
226.03 x100
200
=113.015% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081114\200 PPM MO 08-11-14 1-50-04 PM.dat
Aquired: 8/11/2014 1:55:21 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	112126	11.341
DRO		8643	4.415
MRO		106780	13.918

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)**
Sample ID: **100 PPM CCV**

Vial #: **3**
Data Description: **SV109-1528**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
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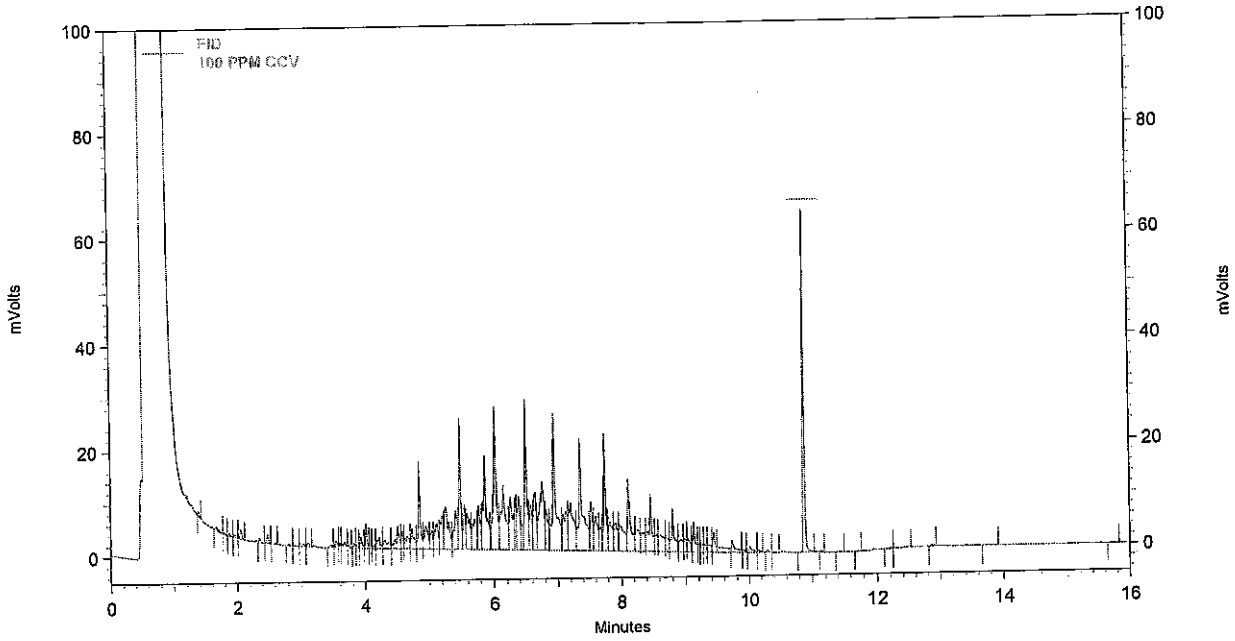
Aquired: 8/11/2014 4:51:09 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.880	96734	9.827
DRO		1585879	102.922
MRO		4453	1.504

Analyst _____

Reviewed By _____

Calibration Summary

Instrument: DANTE

Date: 7·24·14

Method: 072414.met

Calibration Name: 8015D

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

Analyst: [signature]

QA: [signature]

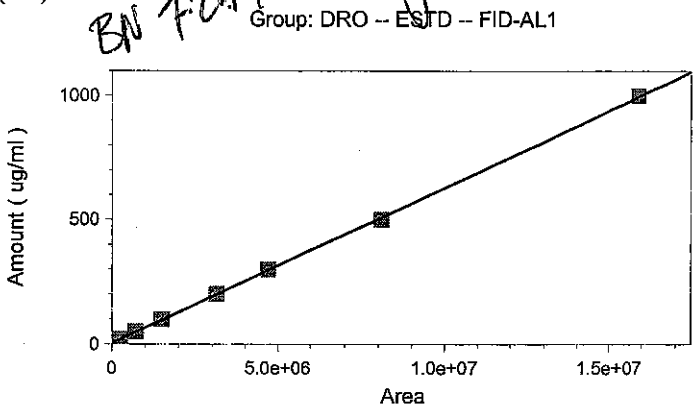
This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time: 7/24/2014 3:16:29 PM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 8.09999e-005 RF StDev: 3.46333e-005 RF %RSD: 42.7572
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 6.24556e-005x + 3.87523
Goodness of fit (r^2): 0.999891

BW 7.24.14 JJ 7/25/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	23665	104775	264636	723102	1483687
RF	0.000169025	9.54426151276	7.557550748953	6.914653810942	6.7399660440
	987745616	545e-005	28e-005	3e-005	5107e-005
Last Area					
Residual	-1.35324	-0.419012	-0.403226	0.963005	3.46021
Rep StDev					
Rep %RSD					
Rep 1 Area	23665	104775	264636	723102	1483687
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\Dante\D	2014\Dante\Dat	2014\Dante\Data	2014\Dante\Data	2014\Dante\Da
	ata\072414	a\072414	\072414	\072414	ta\072414
	CRV\4 ppm	CRV\10 ppm	CRV\20 ppm	CRV\50 ppm	CRV\100 ppm
	07-24-14	07-24-14	07-24-14	07-24-14	07-24-14
	10-16-14	10-37-49	10-59-20	11-20-53	11-42-25
	AM.dat	AM.dat	AM.dat	AM.dat	AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
	2:25:49 PM	2:26:18 PM	2:26:31 PM	2:26:46 PM	2:27:02 PM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time: 7/24/2014 3:16:29 PM
User: System
Instrument: Dante (Offline)

	Level 6	Level 7	Level 8	Level 9
Amount	200	300	500	1000
Area	3140306	4695530	8070619	15904093
RF	6.368806097 24021e-005	6.38905512263 791e-005	6.195311660728 87e-005	6.287689590346 33e-005
Last Area Residual	-0.00491927	2.86263	-7.93057	2.82512
Rep StDev				
Rep %RSD				
Rep 1 Area	3140306	4695530	8070619	15904093
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\200 ppm 07-24-14 12-04-02 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\300 ppm 07-24-14 12-25-28 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\500 ppm 07-24-14 12-47-07 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\1000 ppm 07-24-14 1-08-33 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1000 ppm
Rep 1 Calib. Time	7/24/2014 2:27:17 PM	7/24/2014 2:27:37 PM	7/24/2014 2:27:51 PM	7/24/2014 2:28:04 PM

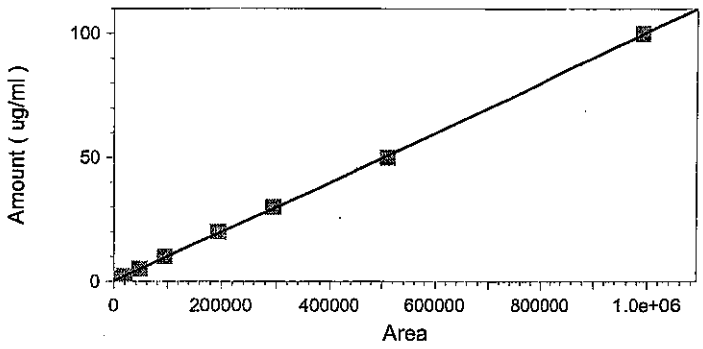
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time: 7/24/2014 3:14:34 PM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 0.000109391 RF StDev: 2.10407e-005 RF %RSD: 19.2344
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.61432e-012x^2 + 9.78266e-005x + 0.339474
Goodness of fit (r^2): 0.999774

BW 7.24.14

✓ JR 7/25/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	2423	9495	19992	47563	94994
RF	0.000165084 605860504	0.00010531858 8730911	0.000100040016 006403	0.000105123730 630953	0.0001052698 06514096
Last Area Residual	-0.176523	-0.268573	-0.296269	0.00168434	0.343993
Rep StDev					
Rep %RSD					
Rep 1 Area	2423	9495	19992	47563	94994
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\4 ppm 07-24-14 10-16-14 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\10 ppm 07-24-14 10-37-49 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\20 ppm 07-24-14 10-59-20 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\50 ppm 07-24-14 11-20-53 AM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\100 ppm 07-24-14 11-42-25 AM.dat
Rep 1 Sample ID	4 ppm	10 ppm	20 ppm	50 ppm	100 ppm
Rep 1 Calib. Time	7/24/2014 2:25:49 PM	7/24/2014 2:26:18 PM	7/24/2014 2:26:31 PM	7/24/2014 2:26:46 PM	7/24/2014 2:27:02 PM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time: 7/24/2014 3:14:34 PM
User: System
Instrument: Dante (Offline)

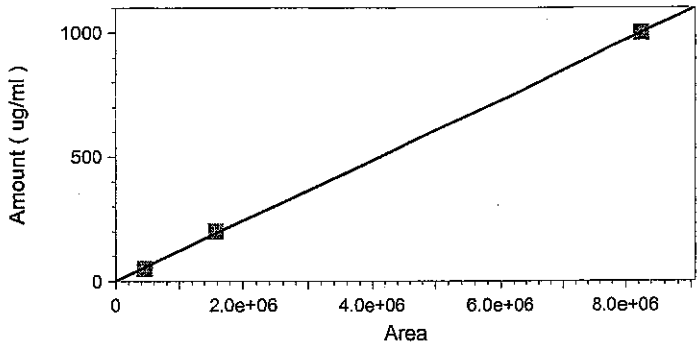
	Level 6	Level 7	Level 8	Level 9
Amount	20	30	50	100
Area	194322	294487	510443	990735
RF	0.000102921 954282068	0.00010187206 905568	9.795413003998 49e-005	0.000100935164 297214
Last Area				
Residual	0.551942	0.625137	-0.955555	0.174165
Rep StDev				
Rep %RSD				
Rep 1 Area	194322	294487	510443	990735
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\200 ppm 07-24-14 12-04-02 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\300 ppm 07-24-14 12-25-28 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\500 ppm 07-24-14 12-47-07 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\1000 ppm 07-24-14 1-08-33 PM.dat
Rep 1 Sample ID	200 ppm	300 ppm	500 ppm	1000 ppm
Rep 1 Calib. Time	7/24/2014 2:27:17 PM	7/24/2014 2:27:37 PM	7/24/2014 2:27:51 PM	7/24/2014 2:28:04 PM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time: 7/25/2014 8:14:12 AM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 0.000119237 RF StDev: 8.47793e-006 RF %RSD: 7.11014
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000121324x + 0.963390
Goodness of fit (r^2): 0.999826

✓ JR 7/25/14
BN 7-24-14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	454903	1581238	8243029
RF	0.000109913	0.00012648317	0.000121314628
Last Area	542007857	3311039	396916
Residual	-6.15403	7.19452	-1.04049
Rep StDev			
Rep %RSD			
Rep 1 Area	454903	1581238	8243029
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\50 ppm MO 07-24-14 1-51-46 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO 07-24-14 2-13-27 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1000 ppm MO 07-24-14 2-35-02 PM.dat
Rep 1 Sample ID	50 ppm MO	200 ppm MO	1000 ppm MO
Rep 1 Calib. Time	7/24/2014 2:28:26 PM	7/24/2014 2:35:57 PM	7/24/2014 3:13:31 PM

Calibration Report

Method:	H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
Print Time:	7/25/2014 8:14:12 AM
User:	System
Instrument:	Dante (Offline)

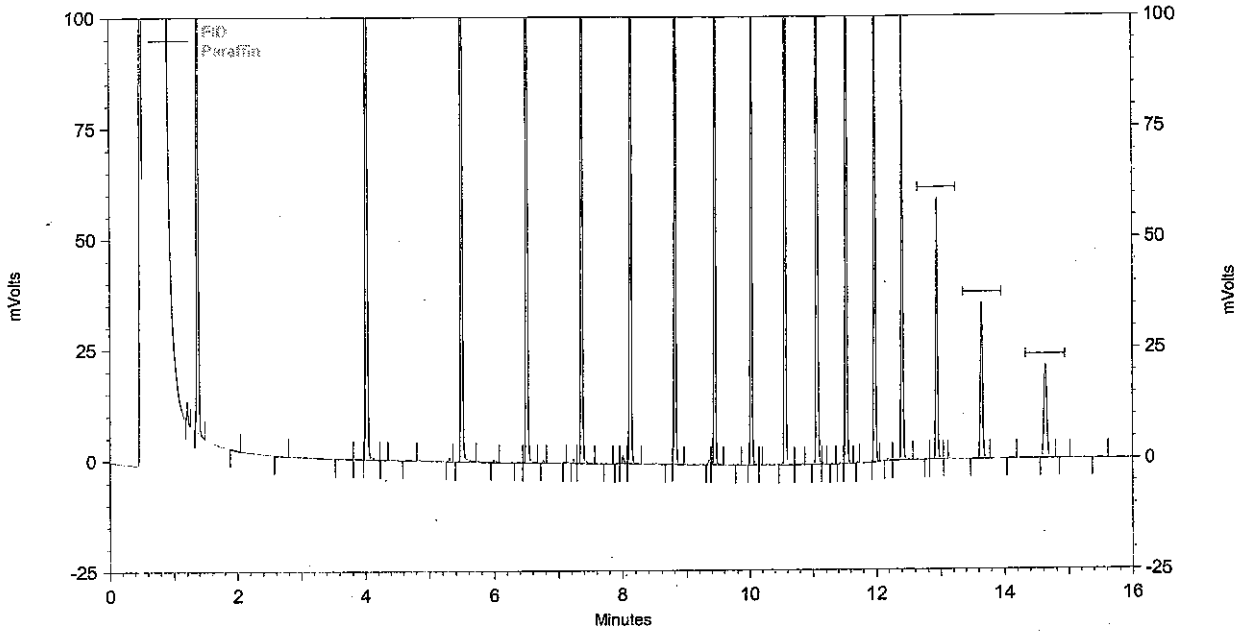
BN 7.24.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	2	Conditioner	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 ppm <D>.dat	1
4	Unknown	0	1	10 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 ppm <D>.dat	1
5	Unknown	0	1	20 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 ppm <D>.dat	1
6	Unknown	0	1	50 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 ppm <D>.dat	1
7	Unknown	0	1	100 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ppm <D>.dat	1
8	Unknown	0	1	200 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm <D>.dat	1
9	Unknown	0	1	300 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 ppm <D>.dat	1
10	Unknown	0	1	500 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 ppm <D>.dat	1
11	Unknown	0	1	1000 ppm	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1000 ppm <D>.dat	1
12	Unknown	0	1	100 ICV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 ICV <D>.dat	1
13	Unknown	0	1	50 ppm MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 ppm MO <D>.dat	1
14	Unknown	0	1	200 ppm MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO <D>.dat	1
15	Unknown	0	1	1000 ppm MO	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1000 ppm MO <D>.dat	1
16	Unknown	0	1	200 ppm MO ICV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO ICV <D>.dat	1
17	Unknown	0	1	200 ppm MO ICV	062314.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO ICV <D>.dat	1

7/25/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1506**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\Paraffin 07-24-14 9-58-48 AM.dat
Aquired: 7/24/2014 10:00:06 AM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.371	336365	0.000
C10	4.011	408352	0.000
C12	5.483	385180	0.000
C14	6.501	358110	0.000
C16	7.355	336239	0.000
C18	8.112	314365	0.000
C20	8.800	304332	0.000
C22	9.429	291522	0.000
C24	10.011	283894	0.000
C26	10.555	293892	0.000
C28	11.056	298400	0.000
C30	11.525	286549	0.000
C32	11.968	229435	0.000
C34	12.400	157637	0.000
C36	12.933	108873	0.000
C38	13.653	82728	0.000
C40	14.629	67279	0.000

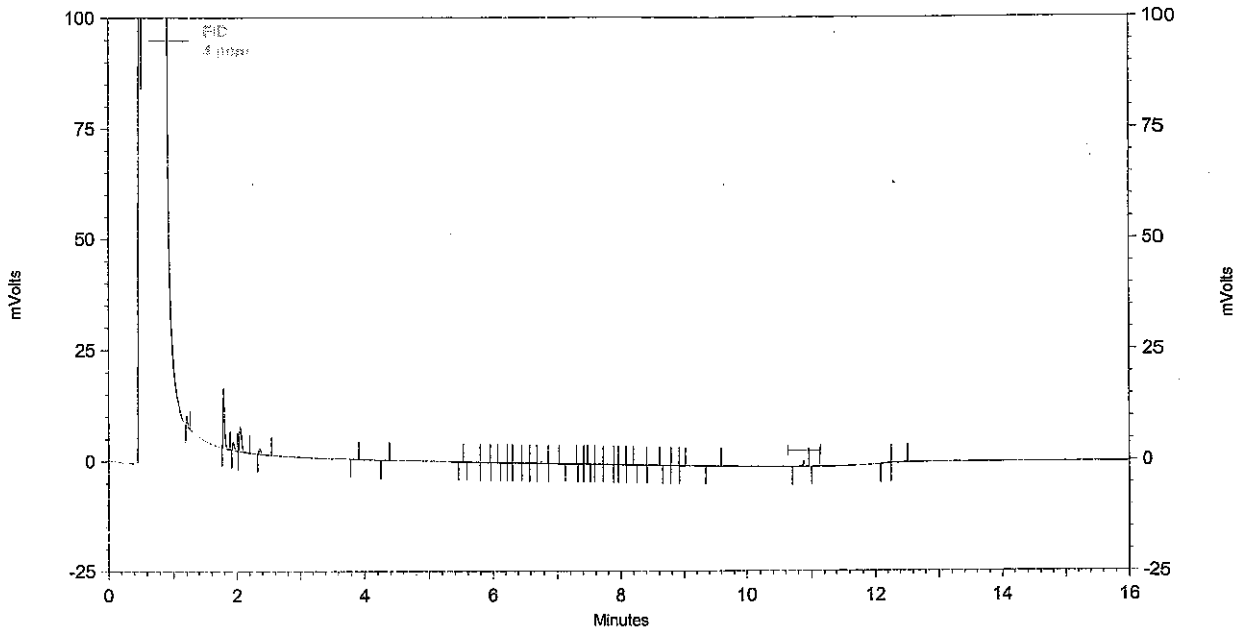
Analyst BN

Reviewed By

* updated retention times

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **4 ppm** Data Description: **SV109-1510**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\4 ppm 07-24-14 10-16-14 AM.dat
Aquired: 7/24/2014 10:21:43 AM



FID Results

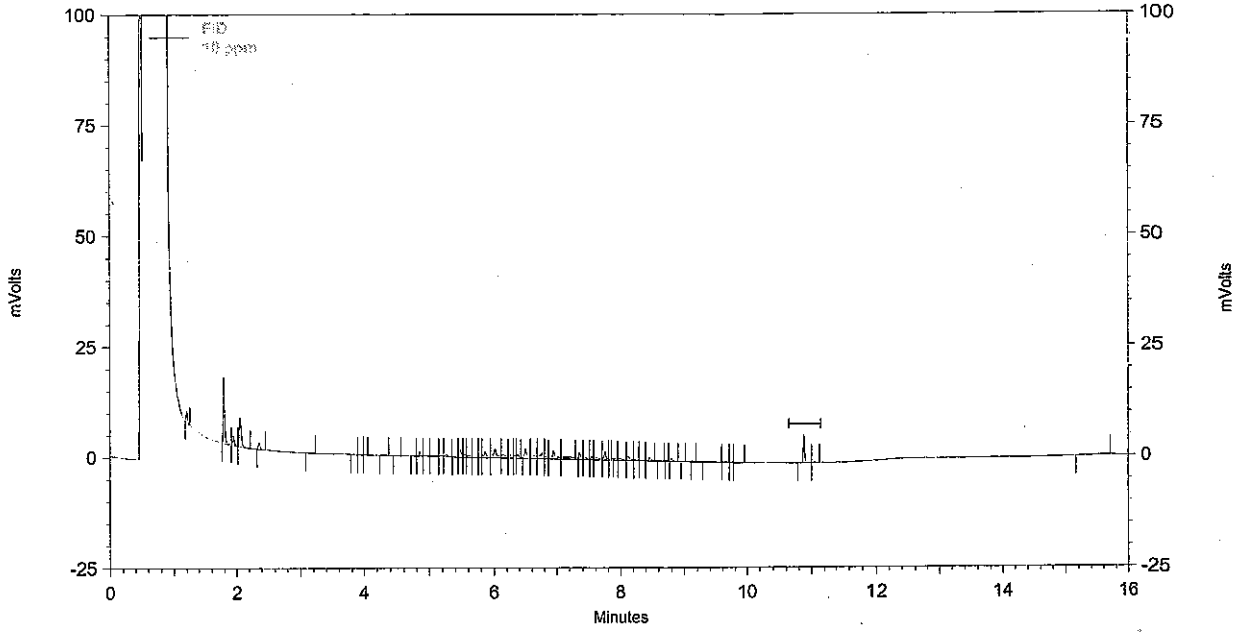
Name	Retention Time	Area	ug/ml
DNOP	10.885	2423	0.400 CAL
DRO		23665	4.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **10 ppm** Data Description: **SV109-1511**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\10 ppm 07-24-14 10-37-49 AM.dat
Aquired: 7/24/2014 10:43:14 AM



FID Results

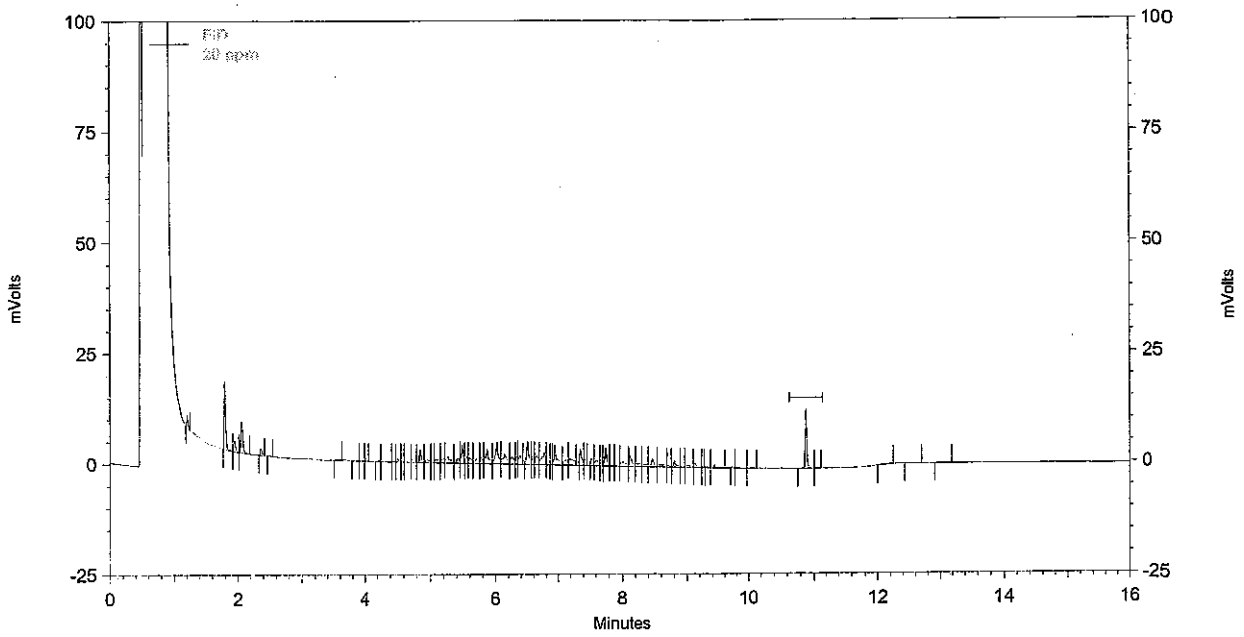
Name	Retention Time	Area	ug/ml
DNOP	10.880	9495	1.000 CAL
DRO		104775	10.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **5** User: **System**
Sample ID: **20 ppm** Data Description: **SV109-1512**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\20 ppm 07-24-14 10-59-20 AM.dat
Aquired: 7/24/2014 11:04:46 AM



FID Results

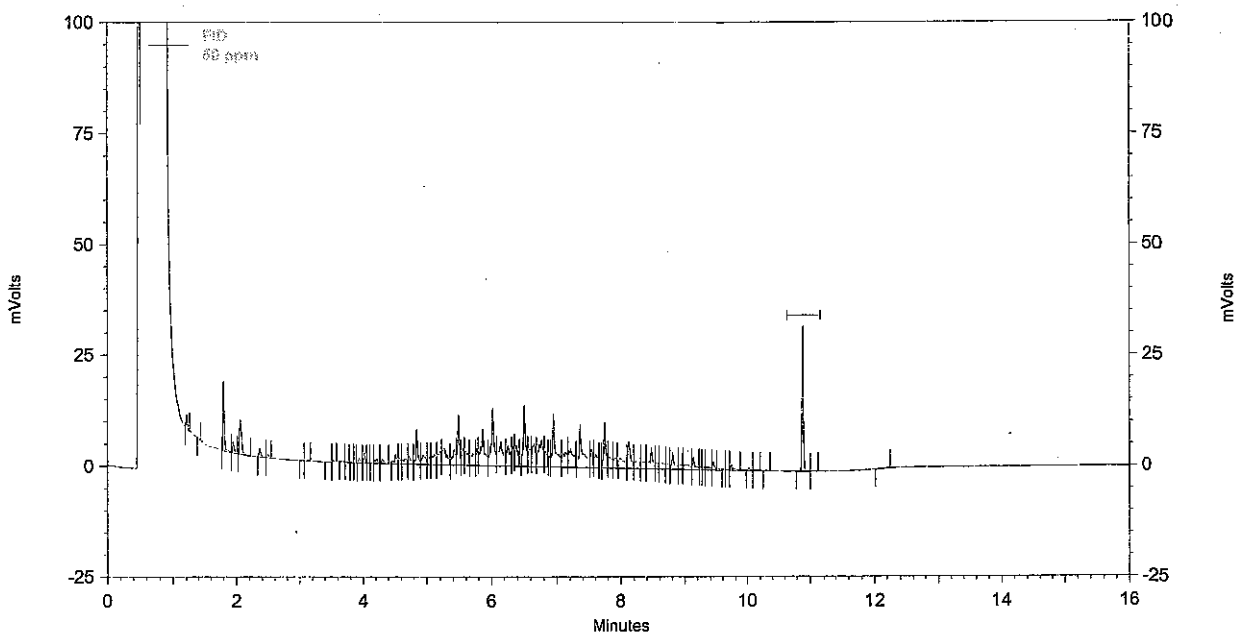
Name	Retention Time	Area	ug/ml
DNOP	10.880	19992	2.000 CAL
DRO		264636	20.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **6** User: **System**
Sample ID: **50 ppm** Data Description: **SV109-1513**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\50 ppm 07-24-14 11-20-53 AM.dat
Aquired: 7/24/2014 11:26:17 AM



FID Results

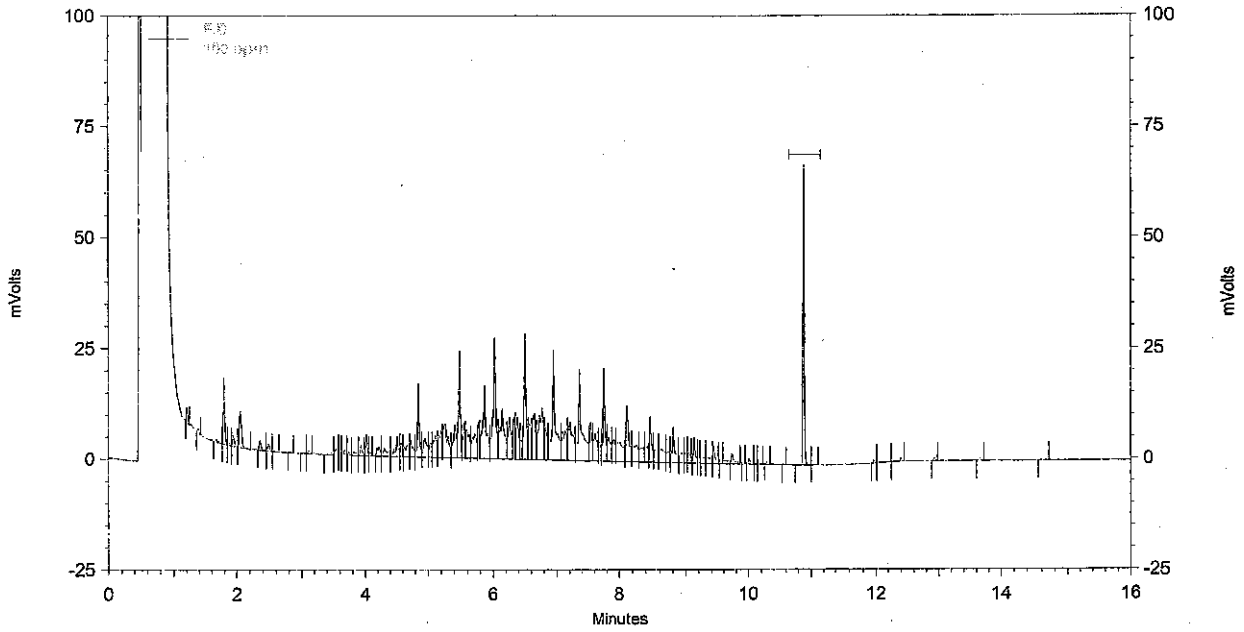
Name	Retention Time	Area	ug/ml
DNOP	10.885	47563	5.000 CAL
DRO		723102	50.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **100 ppm** Data Description: **SV109-1514**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\100 ppm 07-24-14 11-42-25 AM.dat
Aquired: 7/24/2014 11:47:52 AM



FID Results

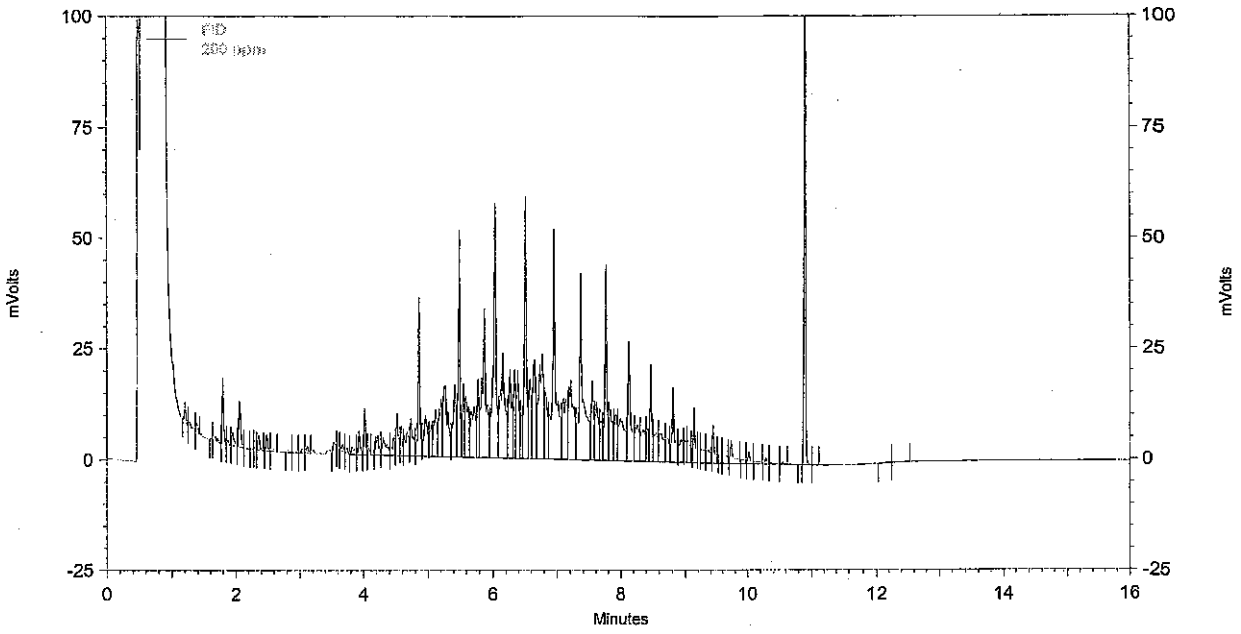
Name	Retention Time	Area	ug/ml
DNOP	10.880	94994	10.000 CAL
DRO		1483687	100.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **8** User: **System**
Sample ID: **200 ppm** Data Description: **SV109-1515**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\200 ppm 07-24-14 12-04-02 PM.dat
Aquired: 7/24/2014 12:09:22 PM



FID Results

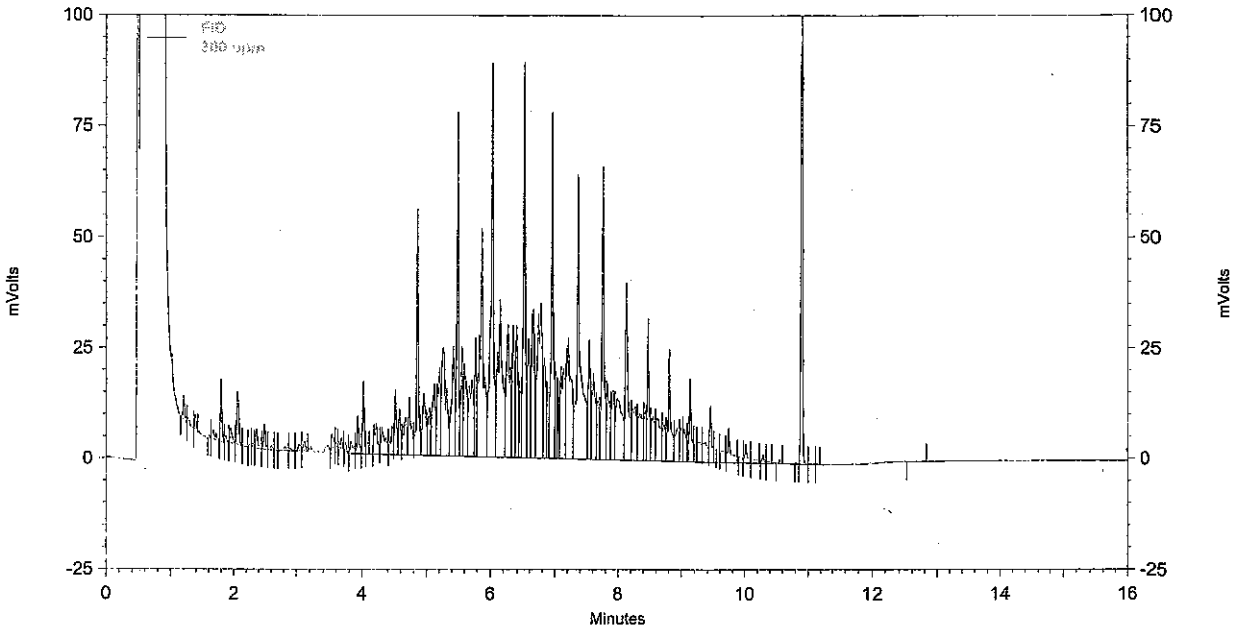
Name	Retention Time	Area	ug/ml
DNOP	10.885	194322	20.000 CAL
DRO		3140306	200.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **9** User: **System**
Sample ID: **300 ppm** Data Description: **SV109-1516**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\300 ppm 07-24-14 12-25-28 PM.dat
Aquired: 7/24/2014 12:30:58 PM



FID Results

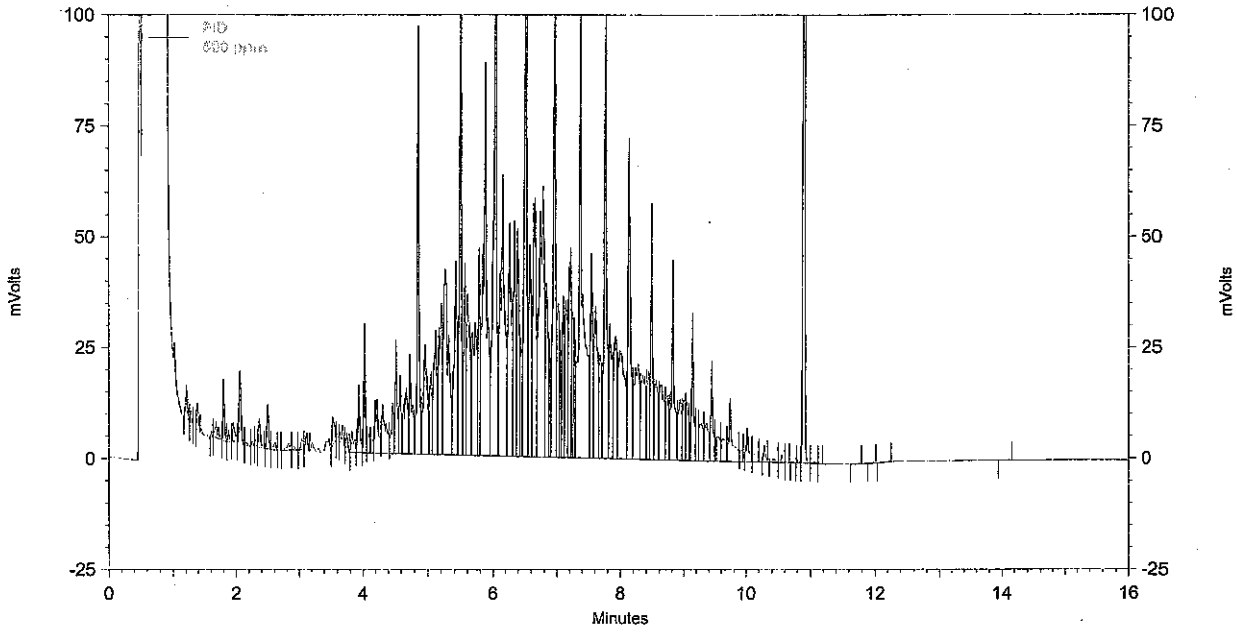
Name	Retention Time	Area	ug/ml
DNOP	10.885	294487	30.000 CAL
DRO		4695530	300.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **500 ppm** Data Description: **SV109-1517**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\500 ppm 07-24-14 12-47-07 PM.dat
Aquired: 7/24/2014 12:52:25 PM



FID Results

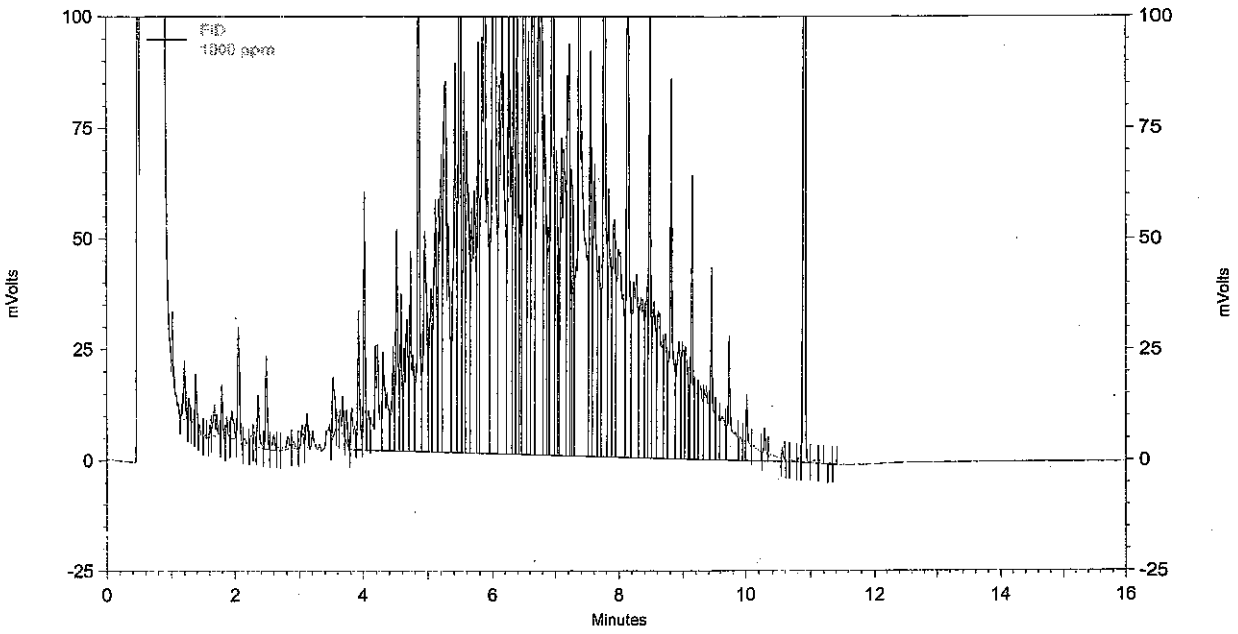
Name	Retention Time	Area	ug/ml
DNOP	10.885	510443	50.000 CAL
DRO		8070619	500.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **11** User: **System**
Sample ID: **1000 ppm** Data Description: **SV109-1518**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\1000 ppm 07-24-14 1-08-33 PM.dat
Aquired: 7/24/2014 1:14:06 PM



FID Results

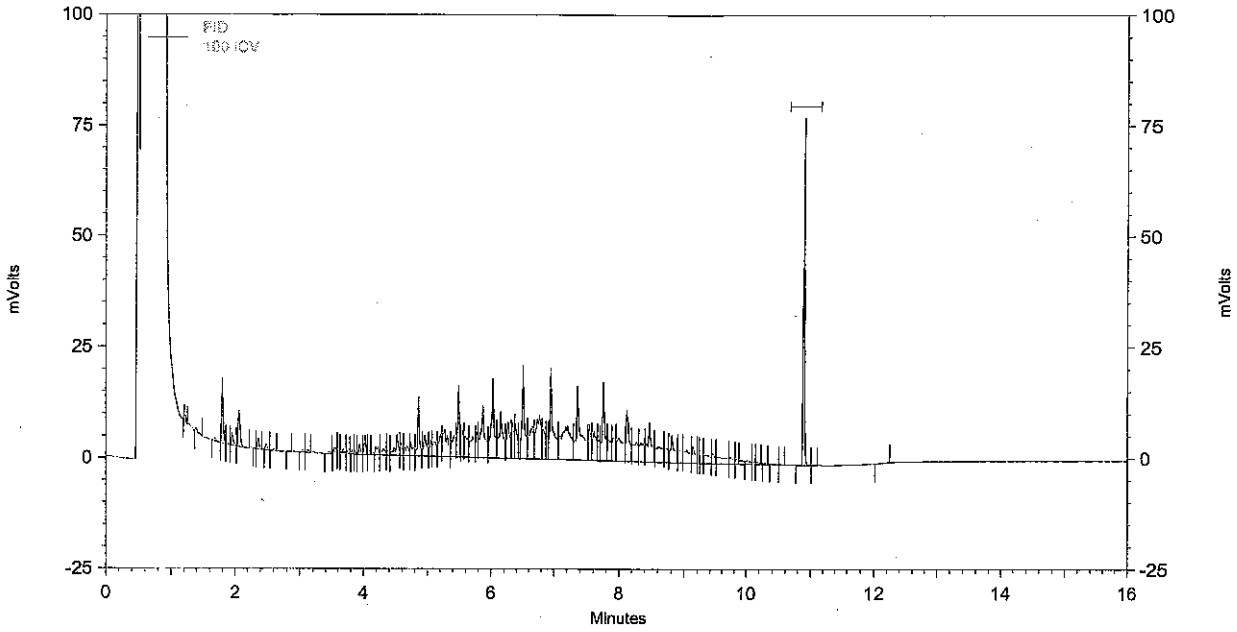
Name	Retention Time	Area	ug/ml
DNOP	10.891	990735	100.000 CAL
DRO		15904093	1000.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **12** User: **System**
Sample ID: **100 ICV** Data Description: **SV109-1519**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\100 ICV 07-24-14 1-30-12 PM.dat
Aquired: 7/24/2014 1:35:38 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	111828	11.312
DRO		1410607	91.976
MRO		906	1.073

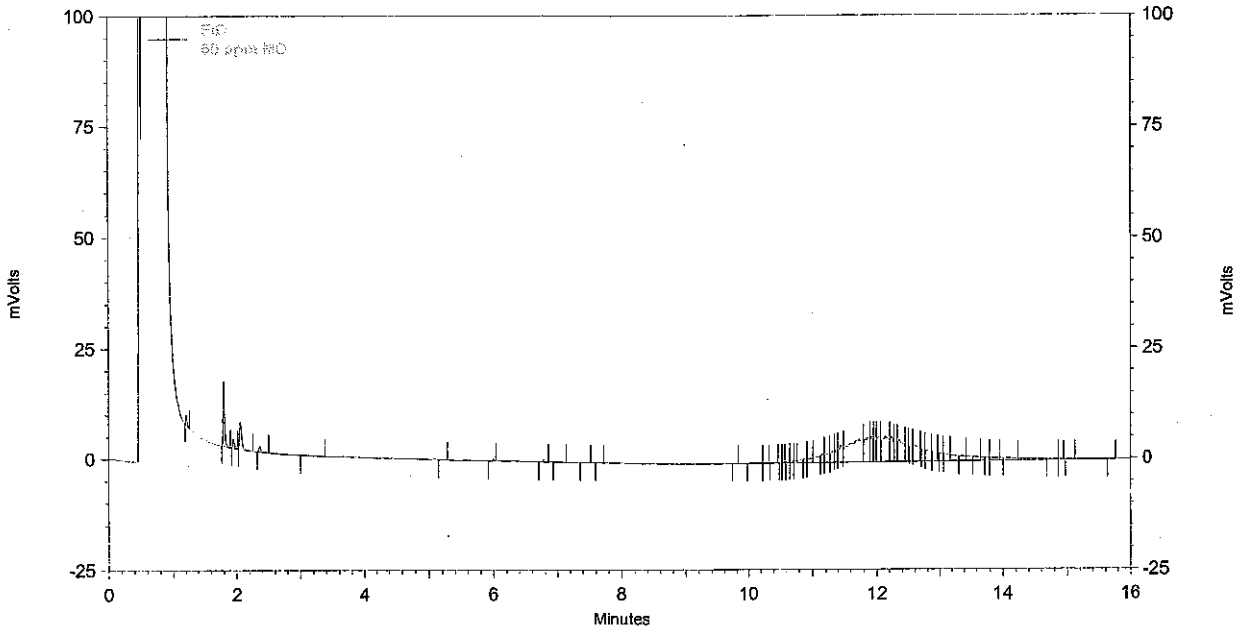
Analyst BN

Reviewed By

±20%

Instrument: **Dante (Offline)** Vial #: **13** User: **System**
Sample ID: **50 ppm MO** Data Description: **SV109-1520**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\50 ppm MO 07-24-14 1-51-46 PM.dat
Aquired: 7/24/2014 1:57:20 PM



FID Results

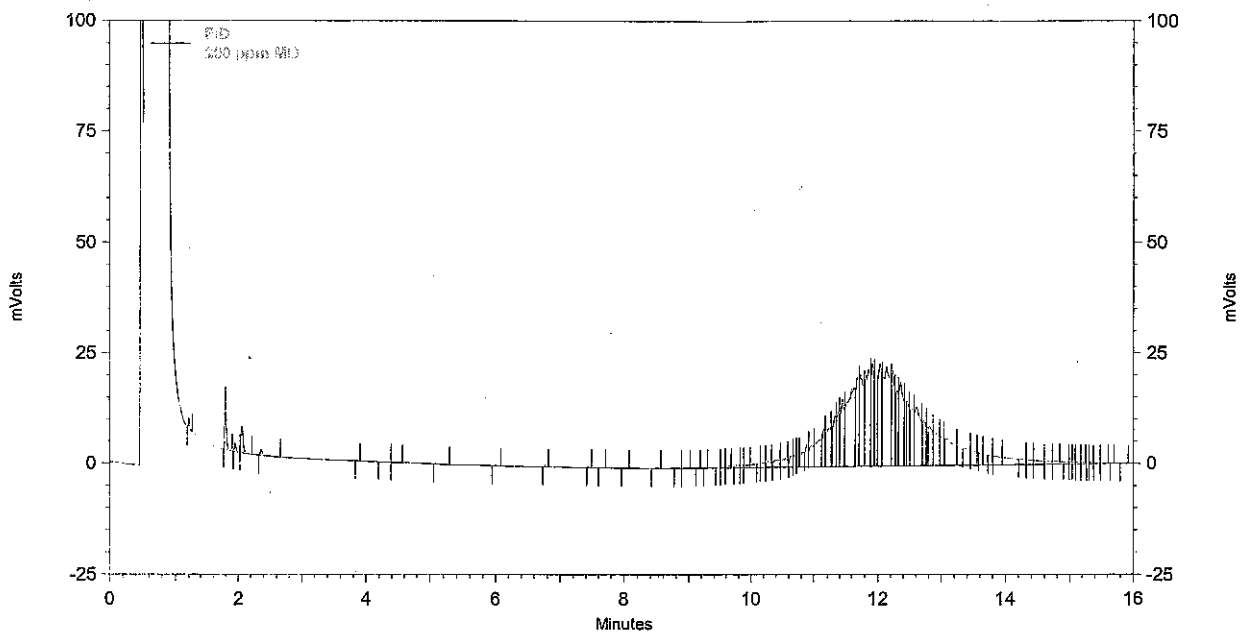
Name	Retention Time	Area	ug/ml
MRO		454903	50.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **14** User: **System**
Sample ID: **200 ppm MO** Data Description: **SV109-1521**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO 07-24-14 2-13-27 PM.dat
Aquired: 7/24/2014 2:18:54 PM



FID Results

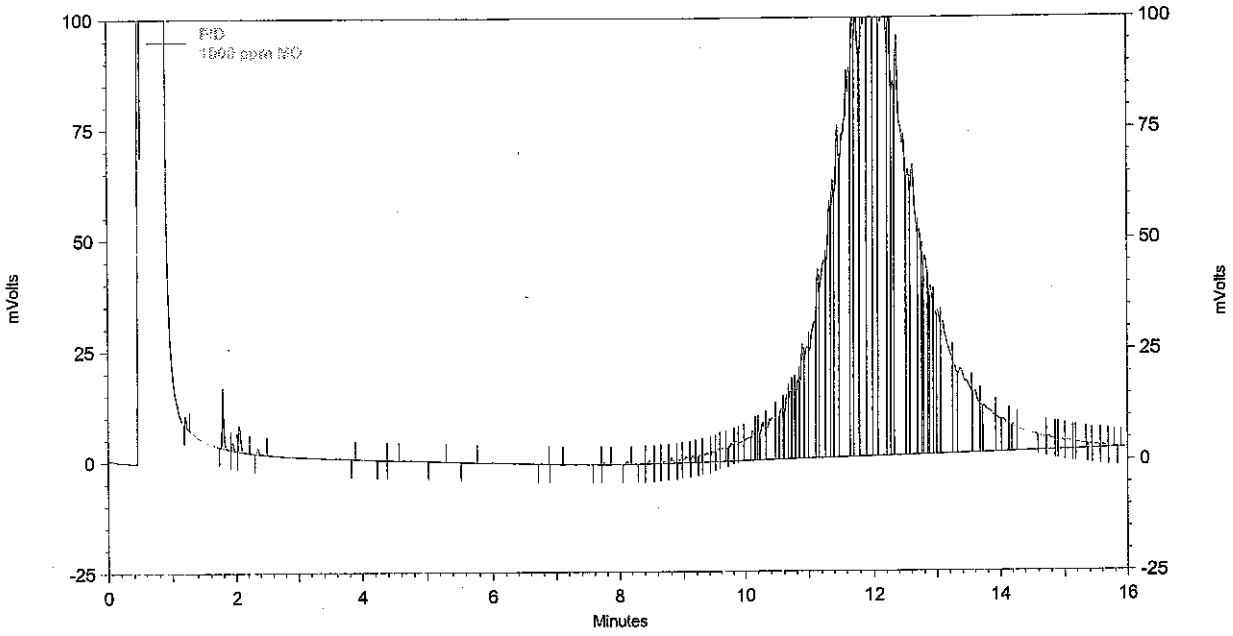
Name	Retention Time	Area	ug/ml
MRO		1581238	200.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **15** User: **System**
Sample ID: **1000 ppm MO** Data Description: **SV109-1522**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\1000 ppm MO 07-24-14 2-35-02 PM.dat
Aquired: 7/24/2014 2:40:37 PM



FID Results

Name	Retention Time	Area	ug/ml
MRO		8243029	1000.000 CAL

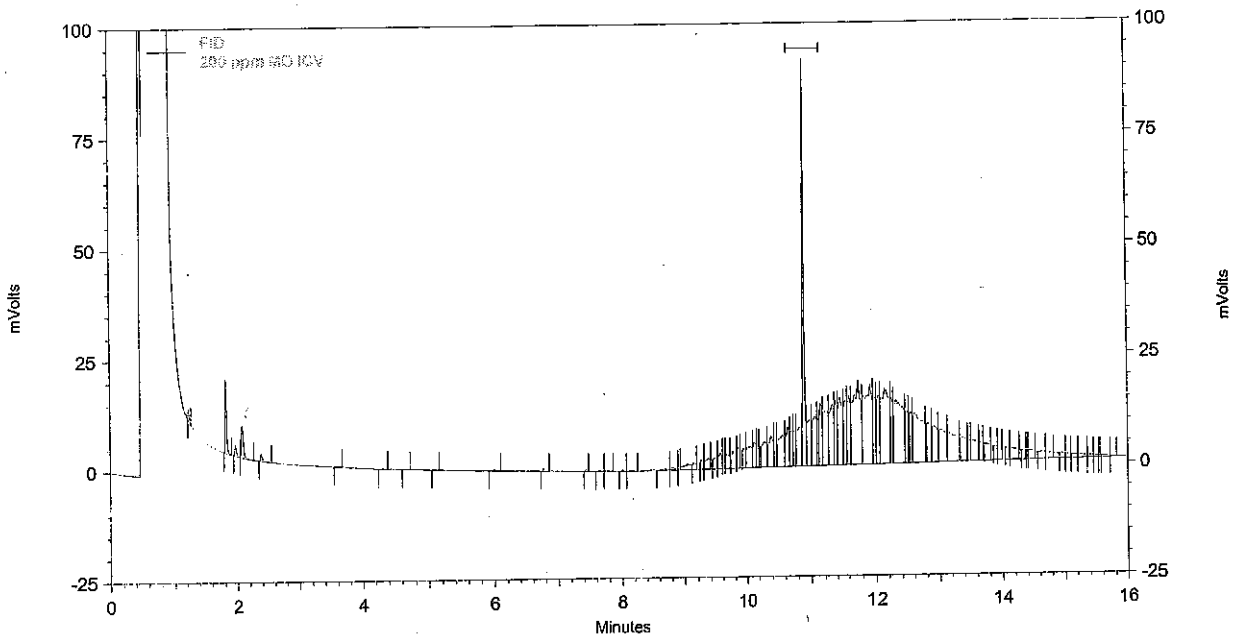
Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 ppm MO ICV** Data Description: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\200 ppm MO ICV 07-24-14 3-02-55 PM.dat

Aquired: 7/24/2014 3:04:34 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	152693	15.338
DRO		330685	24.528
MRO		1934234	246.133

Analyst BN

Reviewed By

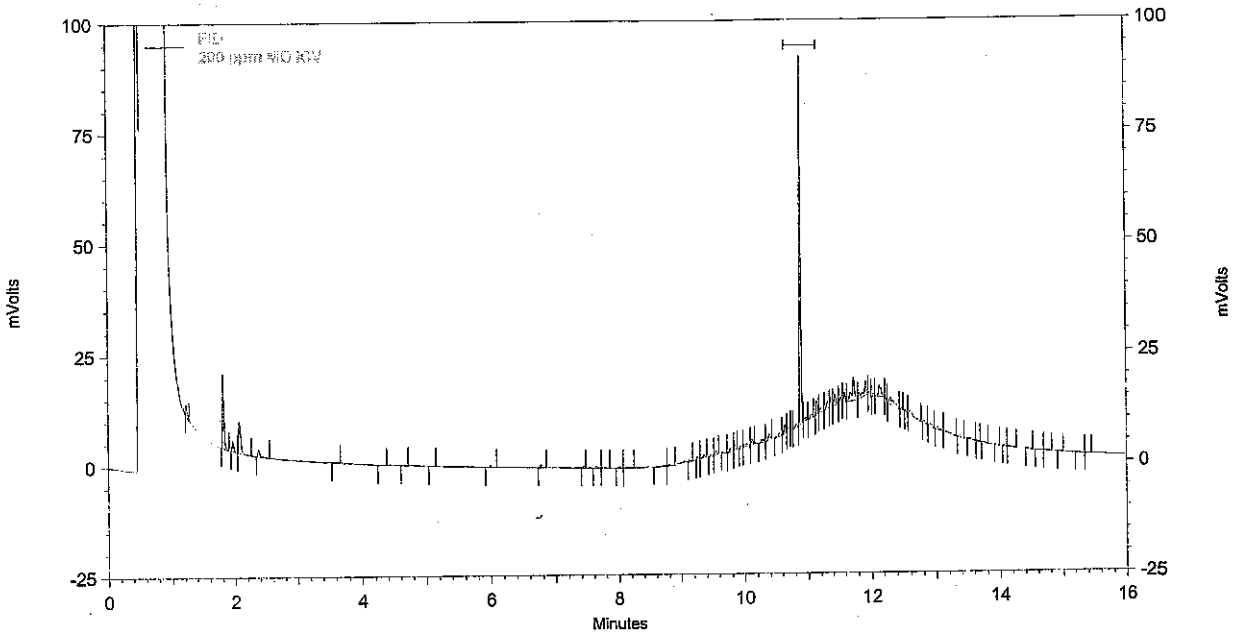
15.338
-11.374
3.964
+246.133
250.097
200 = 125.04

TCR new ICV

Instrument: **Dante (Offline)** Vial #: **16** User: **System**
Sample ID: **200 ppm MO ICV** Data Description: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\072414 CRV\200 ppm MO ICV 07-24-14 3-02-55 PM.dat

Aquired: 7/24/2014 3:04:34 PM



FID Results

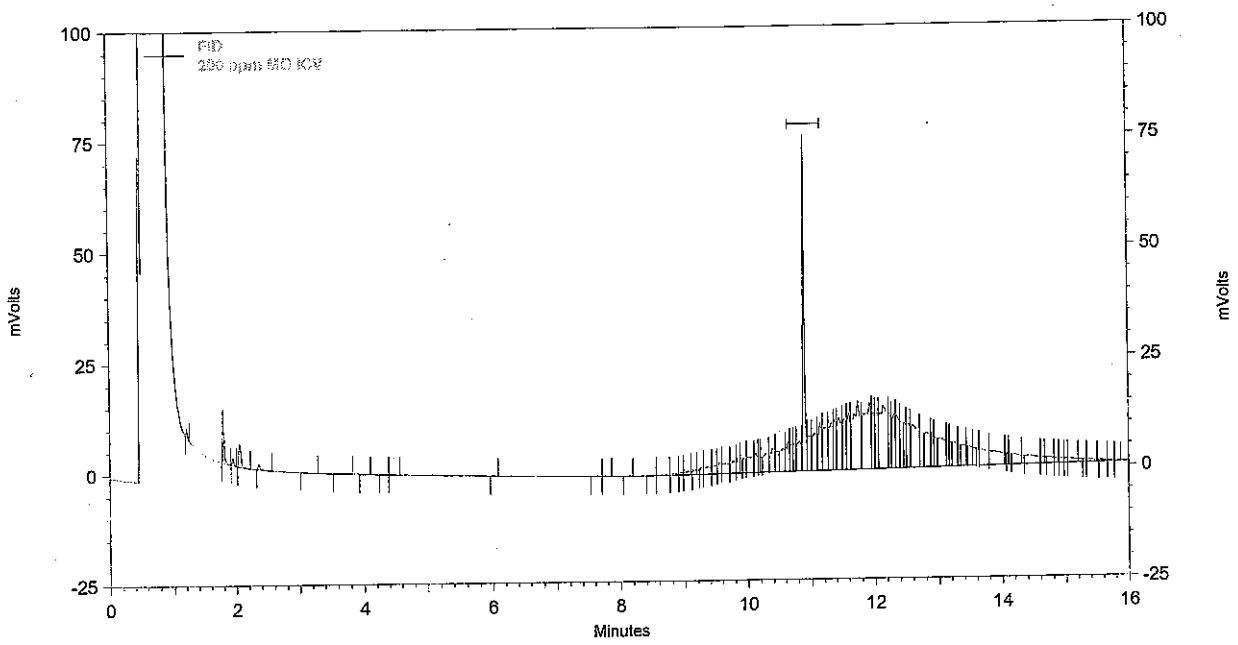
Name	Retention Time	Area	ug/ml
DNOP	10.885	112456	11.374
DRO		33727	5.982
MRO		100491	1.919

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **5** User: **System**
Sample ID: **200 ppm MO ICV** Data Description: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO ICV 07-24-14 3-32-33 PM.dat
Aquired: 7/24/2014 3:33:51 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	127490	12.854
DRO		235087	18.558
MRO		1502868	183.297

Analyst BN

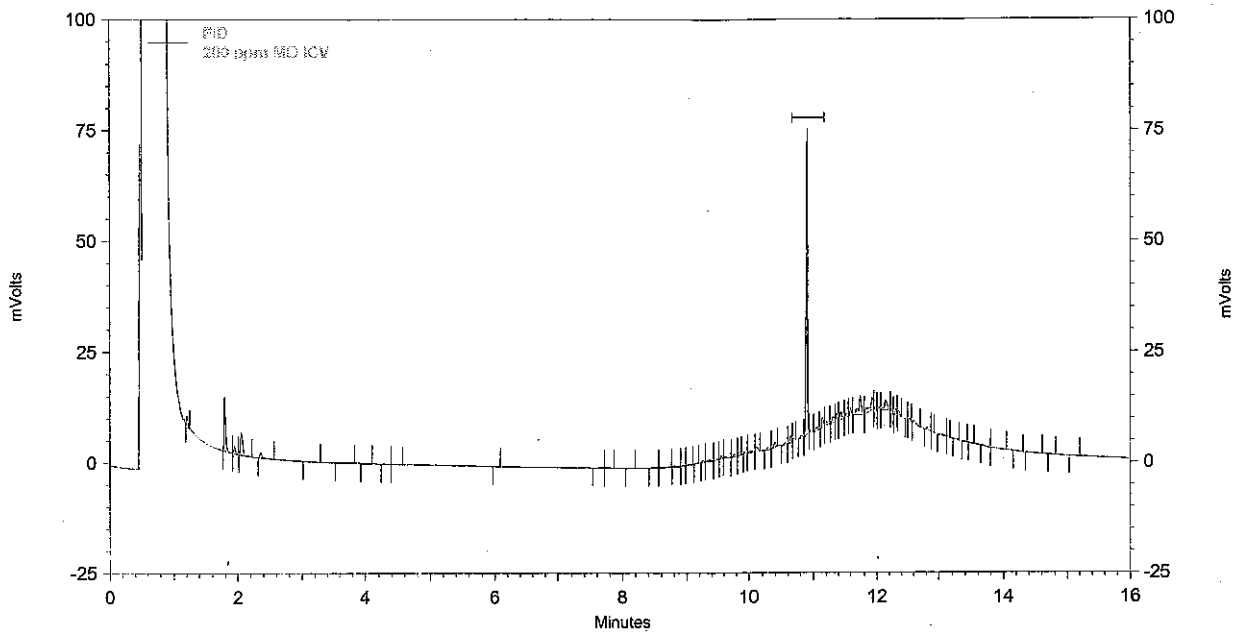
Reviewed By

12.854
- 9.602
3.252
+183.297
186.549 x100
200
=93.27% ✓

±20%

Instrument: **Dante (Offline)** Vial #: **5** User: **System**
Sample ID: **200 ppm MO ICV** Data Description: **SV109-1523**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\072414.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 ppm MO ICV 07-24-14 3-32-33 PM.dat
Aquired: 7/24/2014 3:33:51 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	94449	9.602
DRO		26374	5.522
MRO		78675	10.509

Analyst _____

Reviewed By _____

8/8/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408347**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Lab ID: 1408347-001
Client Sample ID: FFOR-CF-0042
Collection Date: 8/7/2014 10:26:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/12/2014	L3						
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**
Benzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Toluene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Ethylbenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Methyl tert-butyl ether (MTBE)	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2,4-Trimethylbenzene	0.94	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,3,5-Trimethylbenzene	0.46	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2-Dichloroethane (EDC)	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2-Dibromoethane (EDB)	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Naphthalene	0.76	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Acetone	ND	5.5		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Bromobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Bromodichloromethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Bromoform	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Bromomethane	ND	1.1		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
2-Butanone	ND	3.6		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Carbon disulfide	ND	3.6		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Carbon tetrachloride	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Chlorobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Chloroethane	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Chloroform	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Chloromethane	ND	1.1		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
2-Chlorotoluene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
4-Chlorotoluene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
cis-1,2-DCE	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
cis-1,3-Dichloropropene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2-Dibromo-3-chloropropane	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Dibromochloromethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Dibromomethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2-Dichlorobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,3-Dichlorobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,4-Dichlorobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Dichlorodifluoromethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1-Dichloroethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1-Dichloroethene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2-Dichloropropane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,3-Dichloropropane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
2,2-Dichloropropane	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1-Dichloropropene	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Comment: DUE 08/12/2014

EPA METHOD 8260B: VOLATILES

Analyst: **KJH**

Hexachlorobutadiene	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
2-Hexanone	ND	3.6		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Isopropylbenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
4-Isopropyltoluene	0.25	0.36	J	mg/Kg	10	R20480	8/8/2014 2:12:01 PM
4-Methyl-2-pentanone	ND	3.6		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Methylene chloride	ND	1.1		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
n-Butylbenzene	ND	1.1		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
n-Propylbenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
sec-Butylbenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Styrene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
tert-Butylbenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1,1,2-Tetrachloroethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1,2,2-Tetrachloroethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Tetrachloroethene (PCE)	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
trans-1,2-DCE	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
trans-1,3-Dichloropropene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2,3-Trichlorobenzene	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2,4-Trichlorobenzene	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1,1-Trichloroethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,1,2-Trichloroethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Trichloroethene (TCE)	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Trichlorofluoromethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
1,2,3-Trichloropropane	ND	0.73		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Vinyl chloride	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Xylenes, Total	0.25	0.73	J	mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Bromochloromethane	ND	0.36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Vinyl acetate	ND	3.6		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Surr: Dibromofluoromethane	88.4	70-130		%REC	10	R20480	8/8/2014 2:12:01 PM
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%REC	10	R20480	8/8/2014 2:12:01 PM
Surr: Toluene-d8	88.6	70-130		%REC	10	R20480	8/8/2014 2:12:01 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	10	R20480	8/8/2014 2:12:01 PM

Comment: DUE 08/12/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **KJH**

Gasoline Range Organics (GRO)	260	36		mg/Kg	10	R20480	8/8/2014 2:12:01 PM
Surr: BFB	108	61.2-137		%REC	10	R20480	8/8/2014 2:12:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408347
Project: Kirtland AFB

Comment: DUE 08/12/2014

EPA METHOD 8260B: VOLATILES Analyst: **KJH**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
2-Hexanone	ND	0.50		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Methylene chloride	0.016	0.15	J	mg/Kg	1	R20480	8/8/2014 2:40:05 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Styrene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20480	8/8/2014 2:40:05 PM
Surr: Dibromofluoromethane	89.5	70-130		%REC	1	R20480	8/8/2014 2:40:05 PM
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%REC	1	R20480	8/8/2014 2:40:05 PM
Surr: Toluene-d8	90.2	70-130		%REC	1	R20480	8/8/2014 2:40:05 PM
Surr: 4-Bromofluorobenzene	82.3	70-130		%REC	1	R20480	8/8/2014 2:40:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

PRELIMINARY

an Star Workstation - Generic Samplelist Edit

leList: C:\VarianWS\070614v.smp

ted: Sun Jul 06 15:00:06 2014
fied: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: AA 7-6-14
1st Review By: AA 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: [illegible] 7-7-14

QA: [illegible] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [illegible] and [illegible].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

7/7/2014 9:37

Analyst: RAA

7-7-14

JB 7/8/14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2														
b13 7-7-20	93813	14.31		93420	16.34													

Surrogate

- [ ]
- [x]

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

7/7/2014 9:37

Analyst: RAA

Internal Standard And RT Summary

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE		% OF m/z
50	15-40% of m/z 95	19.9		
75	30-60% of m/z 95	36.4		
95	base peak	100.0		
96	5-9% of m/z 95	6.0		
173	<2% of m/z 174	0.1	(0.1)	174
174	>50% of m/z 95	62.5		
175	5-9% of m/z 174	4.0	(6.5)	174
176	>95% but <101% of m/z 174	62.9	(100.7)	174
177	5-9% of m/z 176	3.5	(5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

AA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

7-7-14

7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab

Contract:

Lab Code:

Case No.: SAS No: SDG No:

Instrument ID: VAL

Cal. Sample Date(s): 7/7/2014 7/7/2014

Heated Purge (Y/N): No

Cal. Sample Time(s): 2:27 2:27

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
										Average %RSD	20.6		

RA 7-7-14

SB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

Compound	Conc	Units	Amount	Accuracy	Limits	Status
1) * Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2) GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3) BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

alibration Curves Report

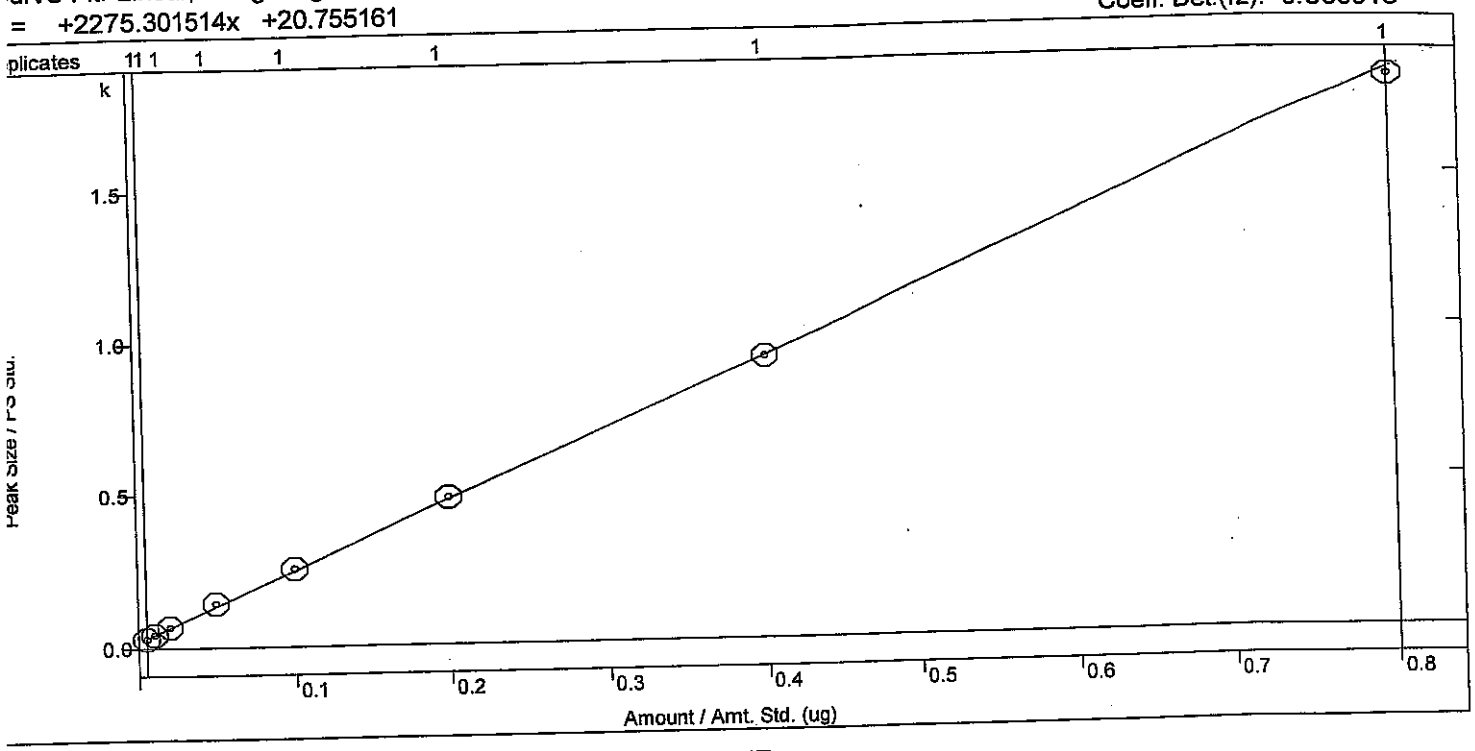
11-7-14

ethod:	c:\varianws\methods\070614v gro.mth		
ecalc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
ample List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
equence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

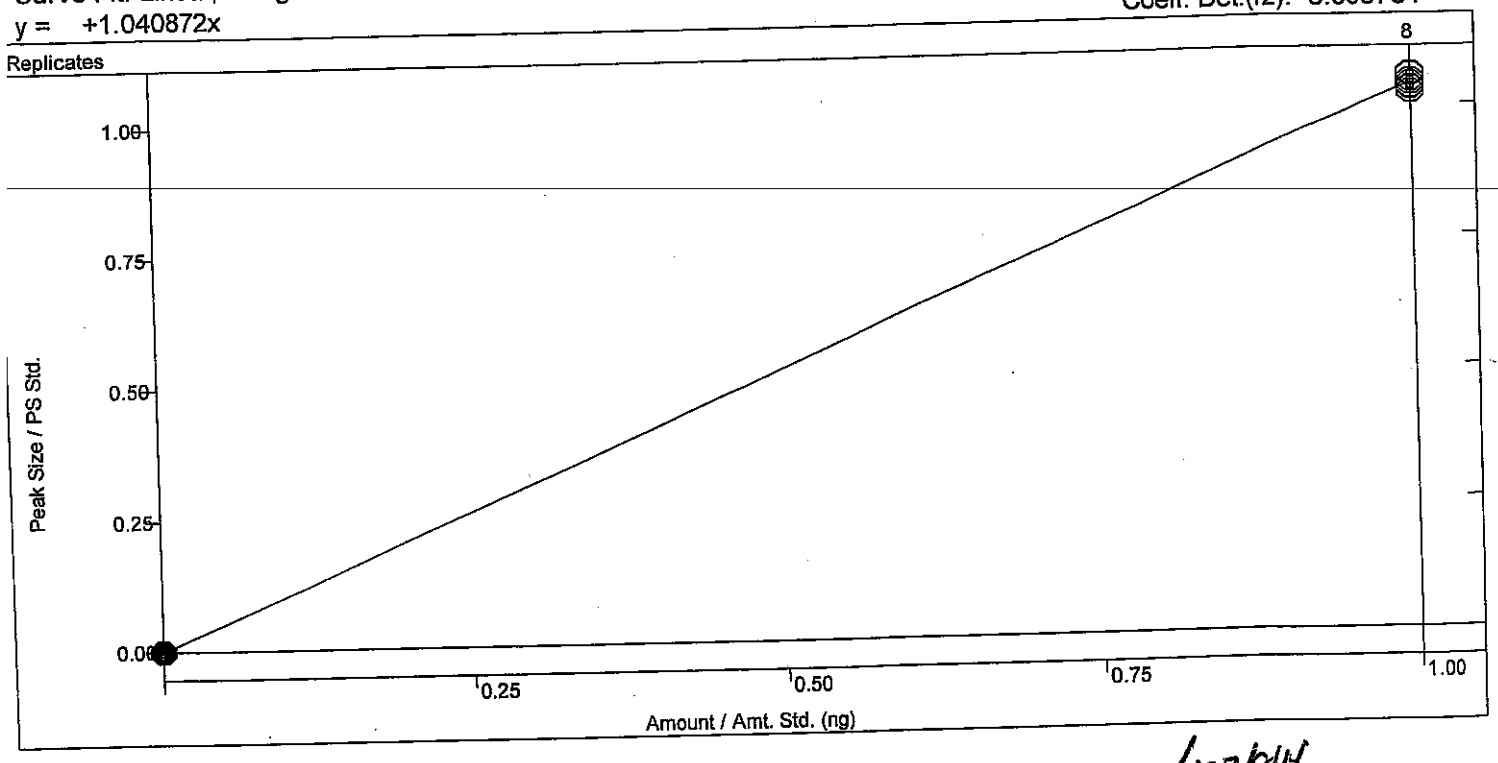
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JWB 7/8/14

Varian Star Workstation - Generic SampleList Mon Aug 04 08:48:17 2014

SampleList: C:\VarianWS\080114v.smp

Created: Fri Aug 01 08:33:12 2014
Modified: Mon Aug 04 08:33:28 2014

Line	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time @ 7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By: KSH 8/4/14
QA'd By: 8-4-14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s %d

Create and update a new RecalcList: c:\varianws\080114v.rcl.

8260B/624
Calibration Summary

Instrument: Va1 **Date:** 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Kr-hits UQL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ppb 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	rr-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ppb 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: [signature] and [signature]

8260B/624
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	LOQ: 22.27ng
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3											
100ng icv	42059	7.99		59018	14.30		34060	17.90										
b9 8-2-201	43349	7.98		61384	14.30		33328	17.90										

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

KJH
8/4/14

8-4-14

8/4/2014 9:03
Analyst: KJH

Internal Standard And RT Summary

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15 100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16 227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17 500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18 b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19 b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20 100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21 b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

JH 8.4.14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: VAL Cal. Sample Date(s): 8/1/2014 8/1/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 22:52 22:52

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JA 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.626	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

JAA 9.4.14 KSH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KJH 8/4/14

J 8.4.14

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

↑ w hits on different crv.

↑ ↑

J 8/4/14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

KJH 8/4/14

Analyst: KJH

Calibration Curves Report

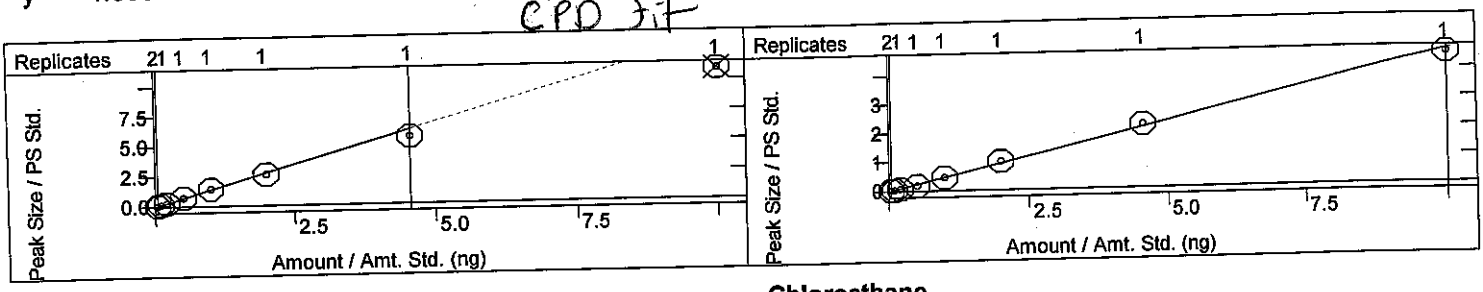
JA 8.4.14

Method:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Recalc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
y = +1.3682x -0.0093

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

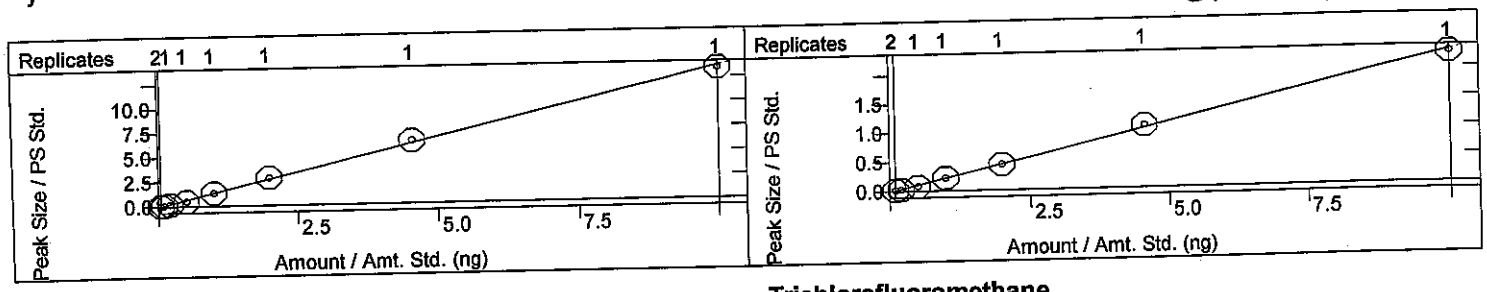
CPD Fit



Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
y = +1.3683x -0.0361

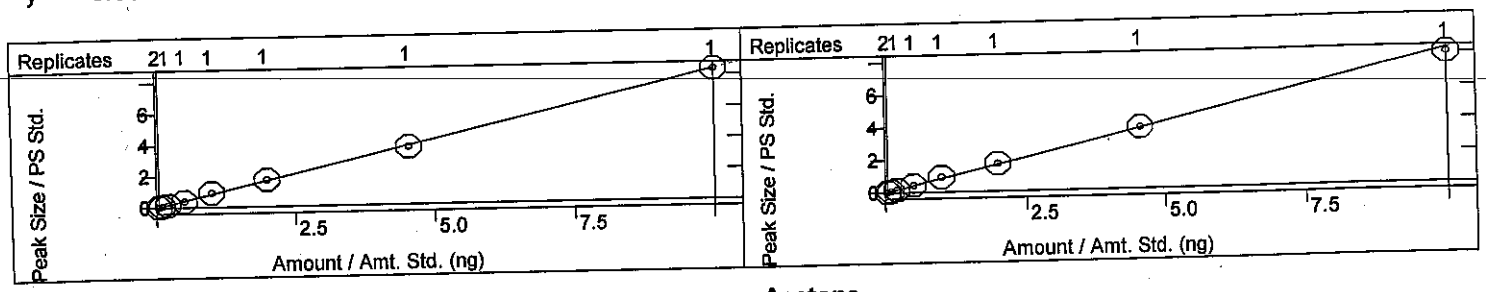
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD Fit



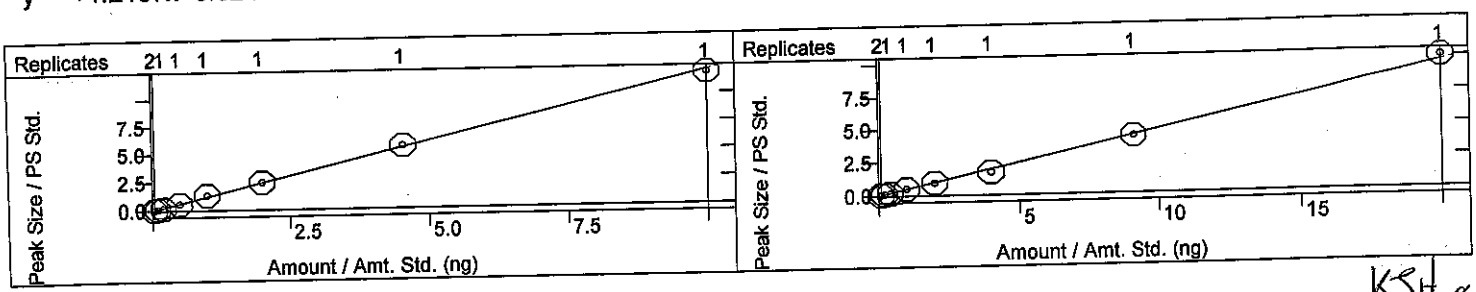
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



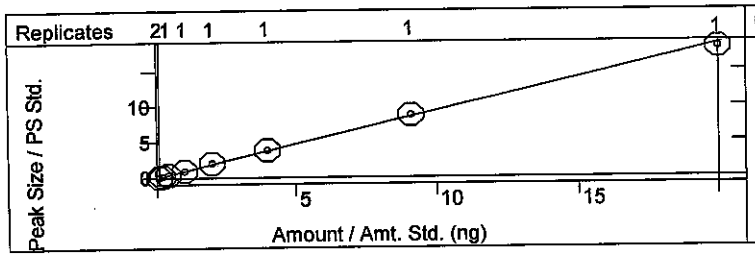
KSH 8/4/14

Calibration Curves Report

JH 8.4.14

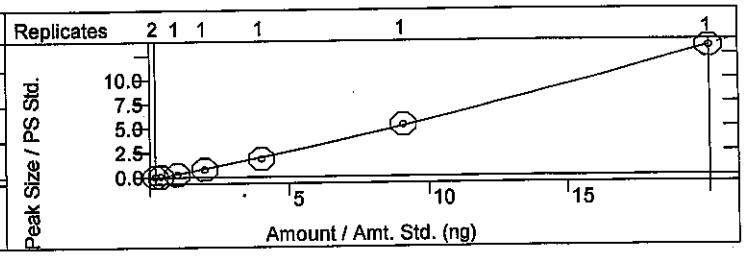
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX
Resp. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
y = +0.9341x +0.0209

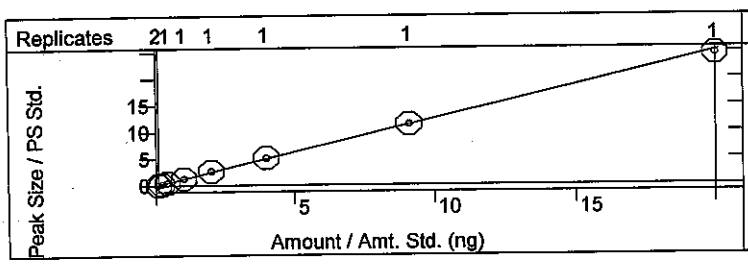


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

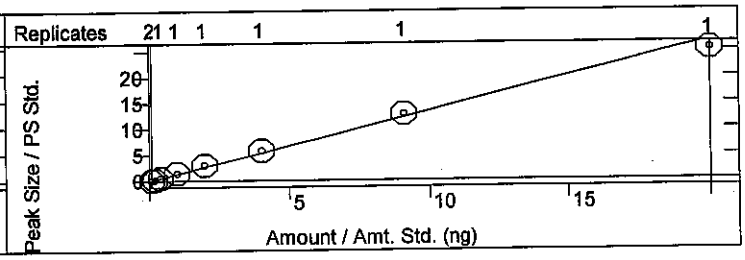
CPD Fit



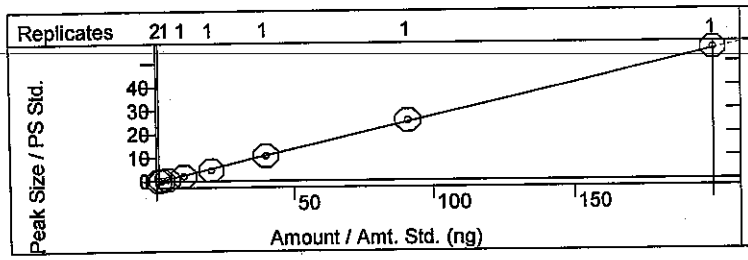
Methyl tert-butyl ether (MTBE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
y = +1.2503x +0.0152



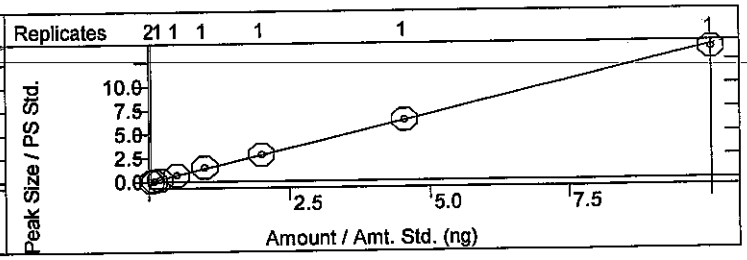
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



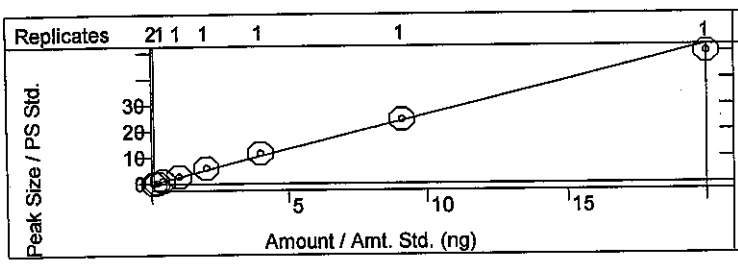
tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
y = +0.2763x -0.2051



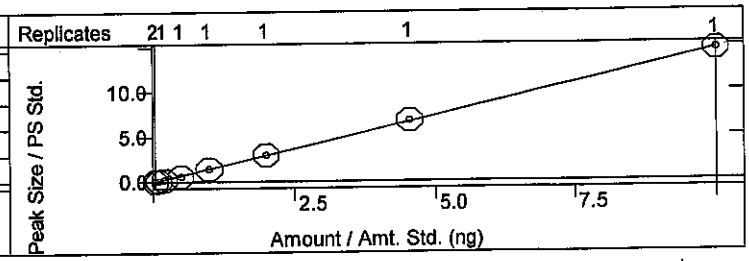
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
y = +2.6347x -0.0155



1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



KSH 8/4/14

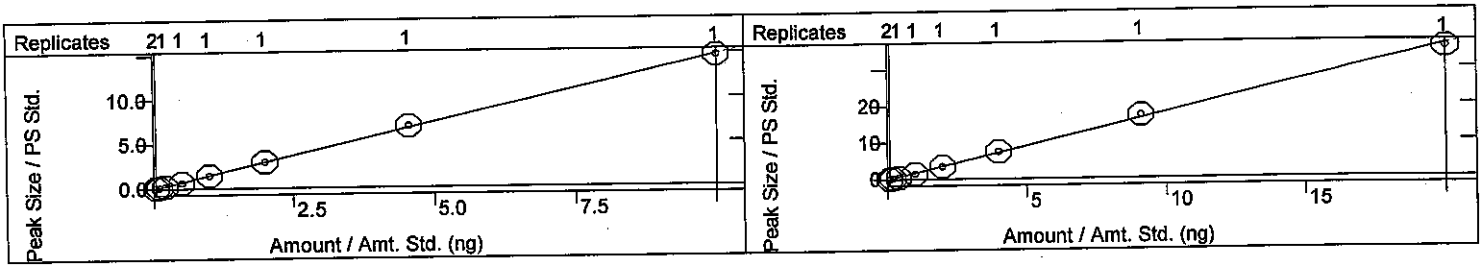
Calibration Curves Report

8-4-14

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

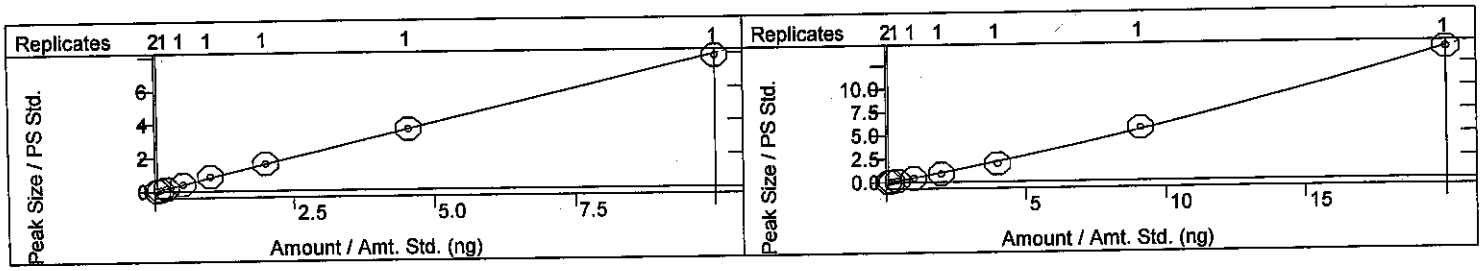
Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
y = +1.4799x -0.0278

Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



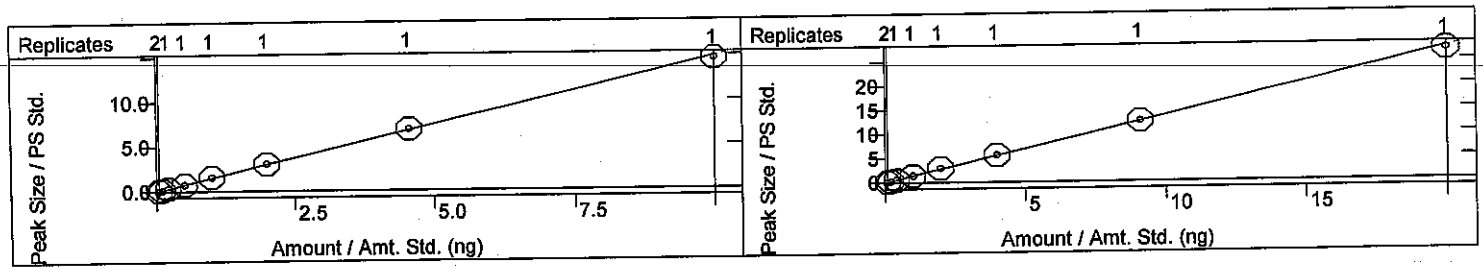
2,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
y = +0.7967x +0.0095

2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



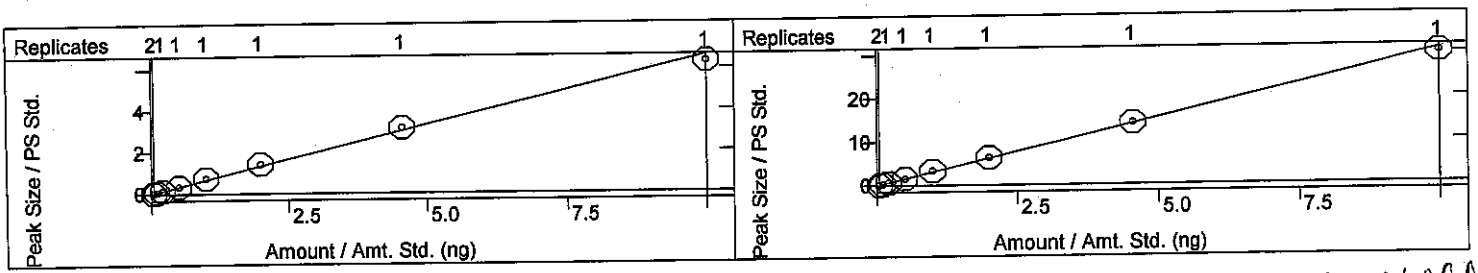
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
y = +1.4855x -0.0066

tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056

Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065



KSH 8/4/14

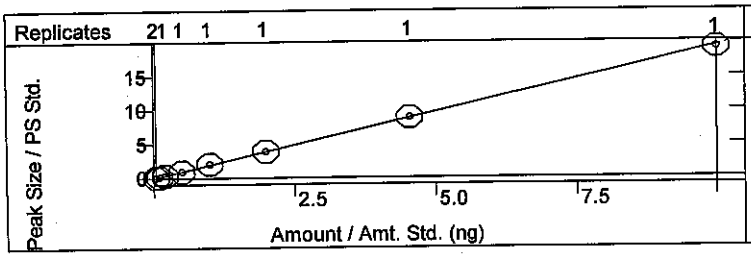
Calibration Curves Report

JH 8.4.14

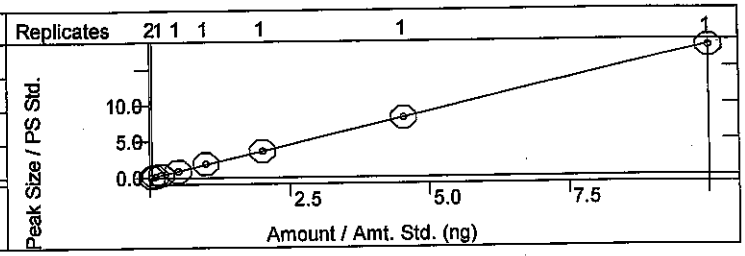
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

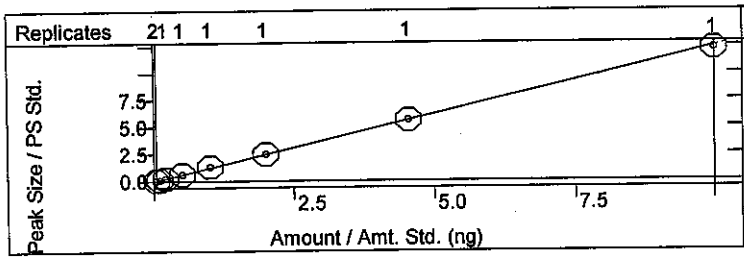
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
y = +1.9390x -0.0226



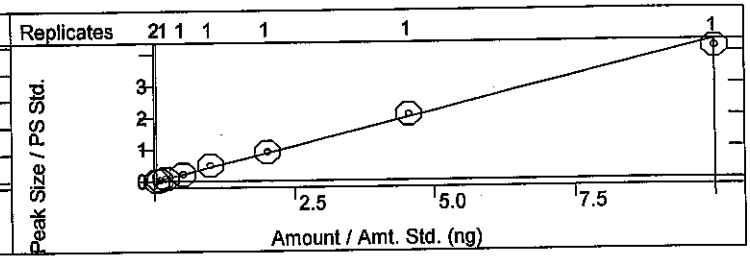
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



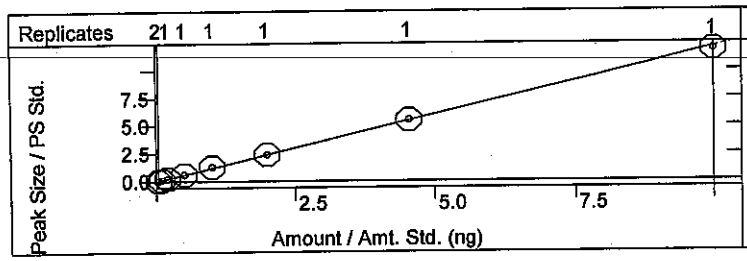
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
y = +1.2389x -0.0082



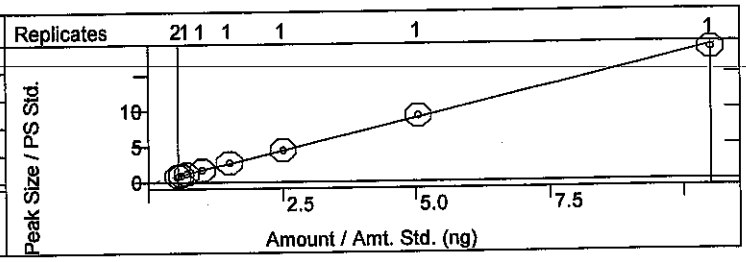
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



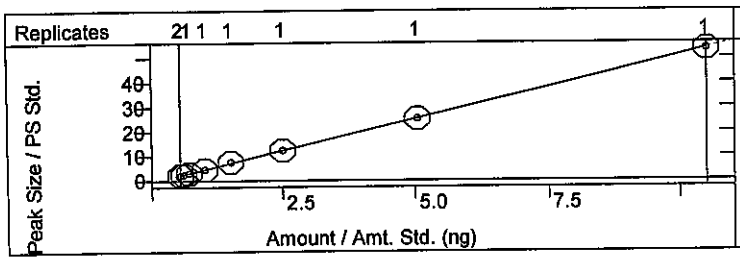
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
y = +1.2032x +0.0034



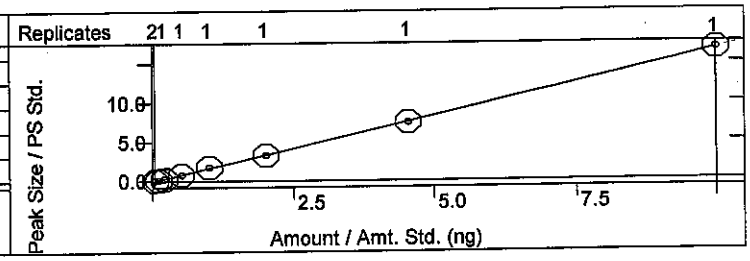
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



Calibration Curves Report

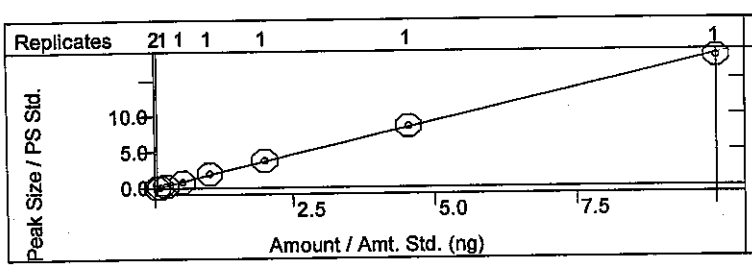
J Pg 8 4-14

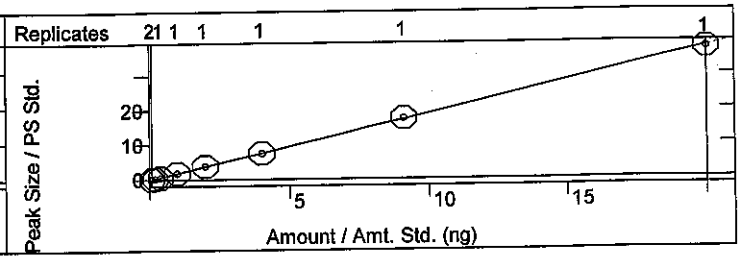
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
y = +1.8502x -0.0424

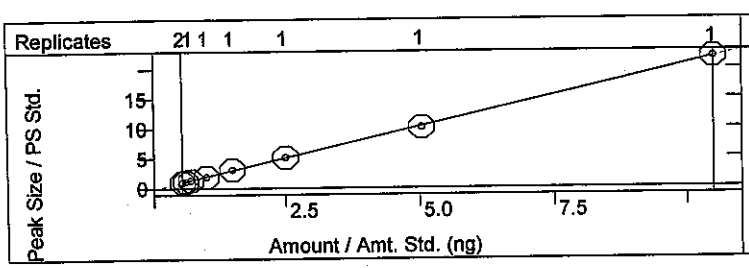
4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857

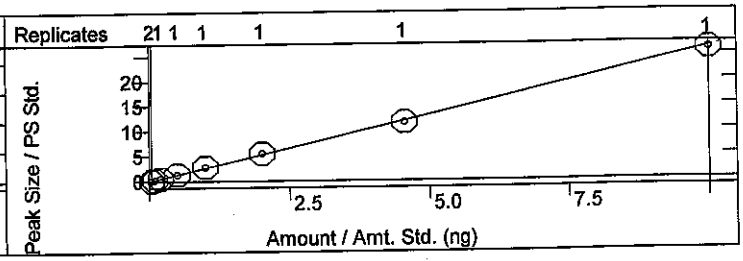




Toluene-d8
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
y = +2.0846x -0.1194

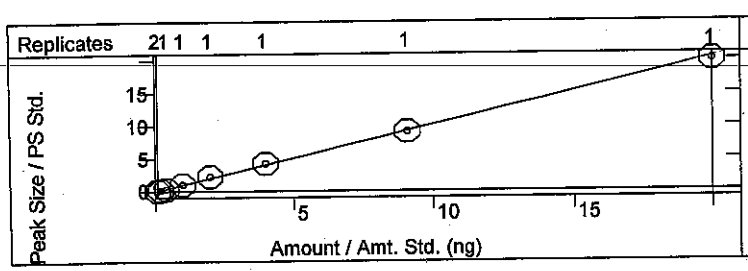
Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075

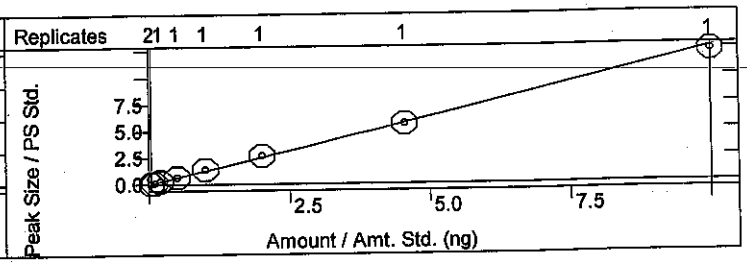




2-Chloroethyl vinyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
y = +1.0195x -0.0355

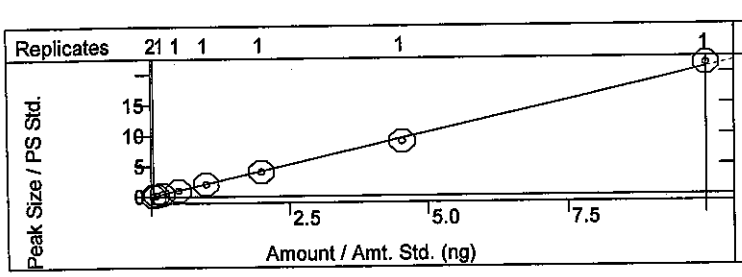
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074

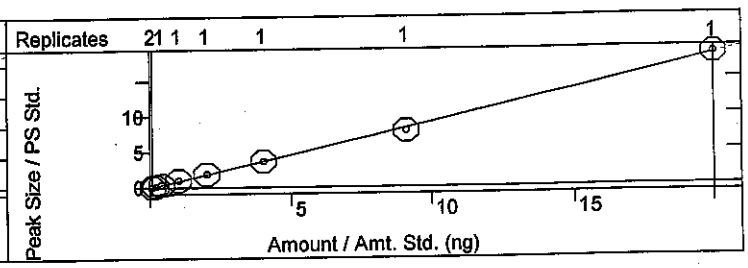




cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



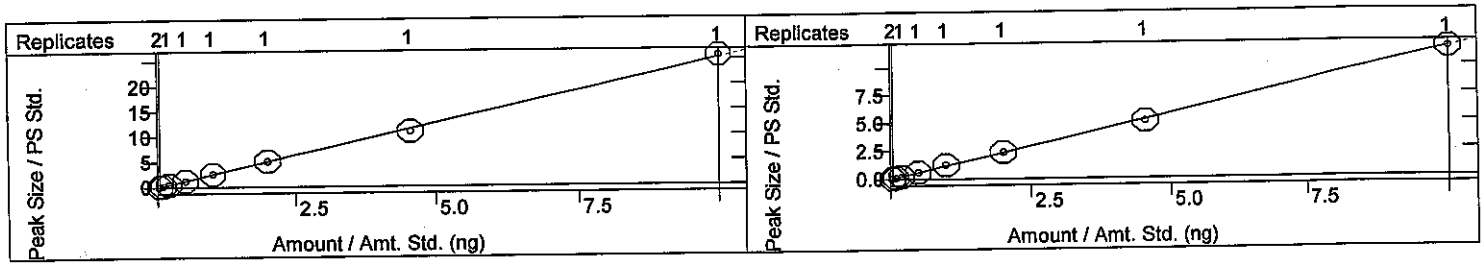


Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

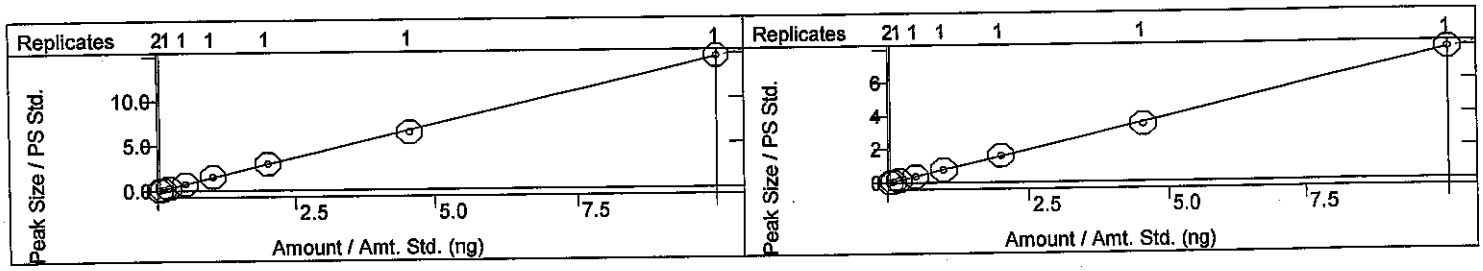
Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
y = +2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



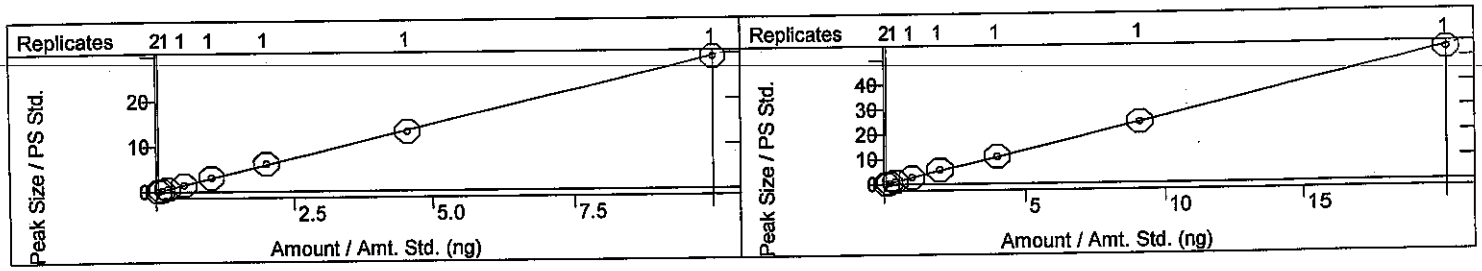
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
y = +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



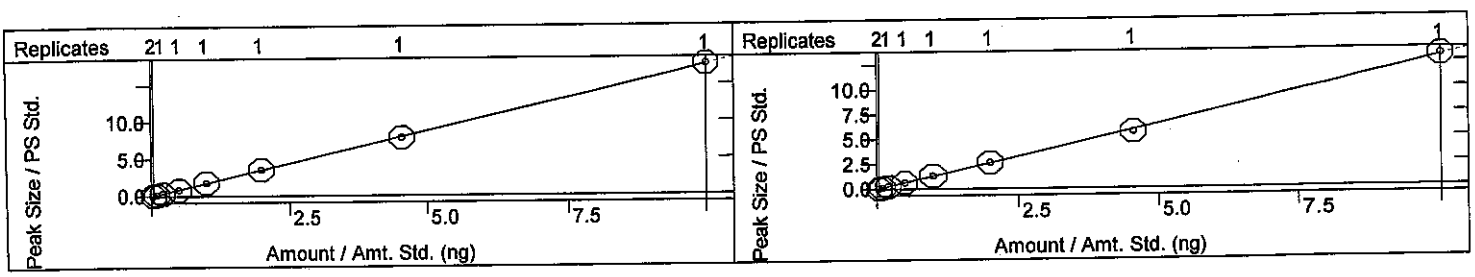
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
y = +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

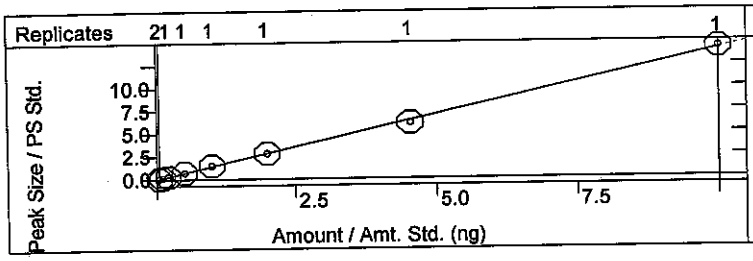
Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



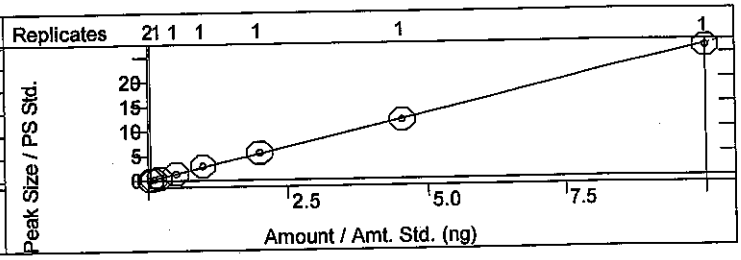
Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

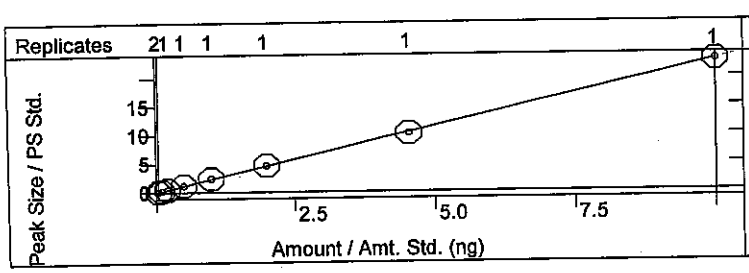
1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
y = +1.4074x +0.0063



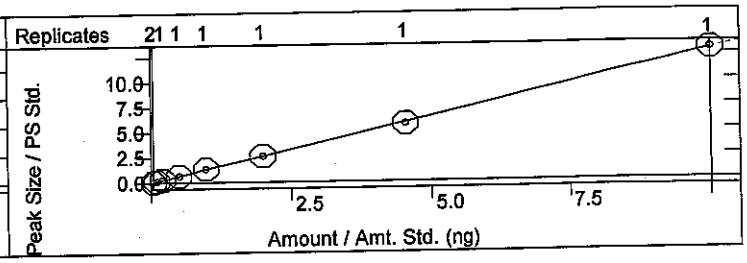
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



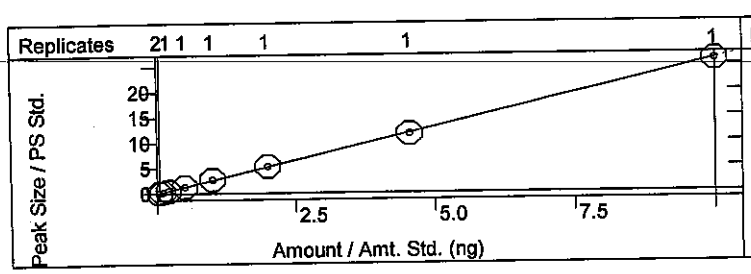
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
y = +2.2967x -0.0016



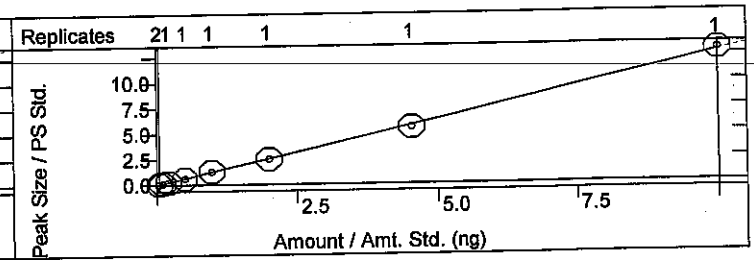
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



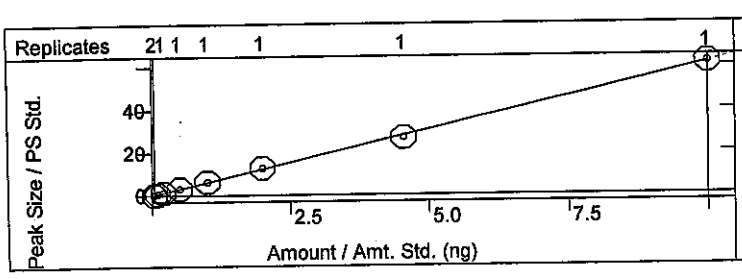
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
y = +2.6088x -0.0035



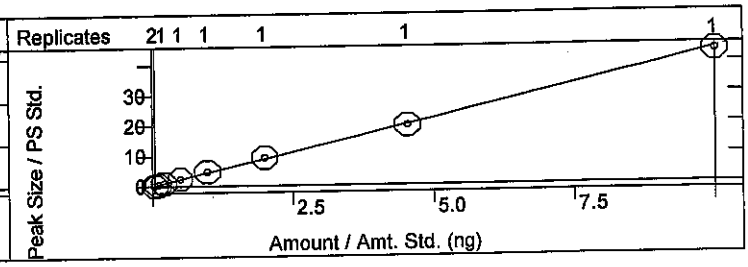
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332

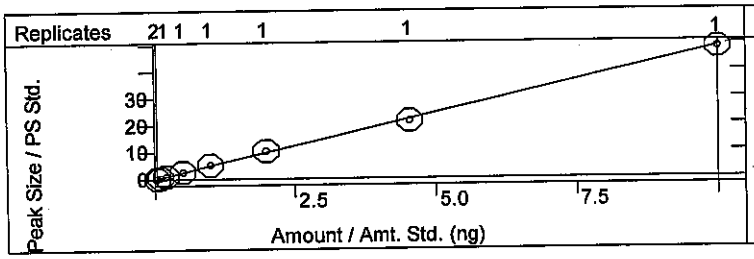


Calibration Curves Report

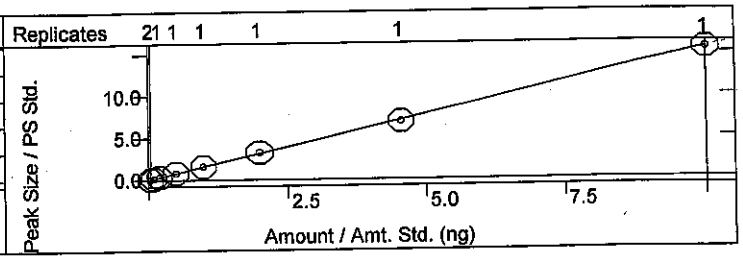
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

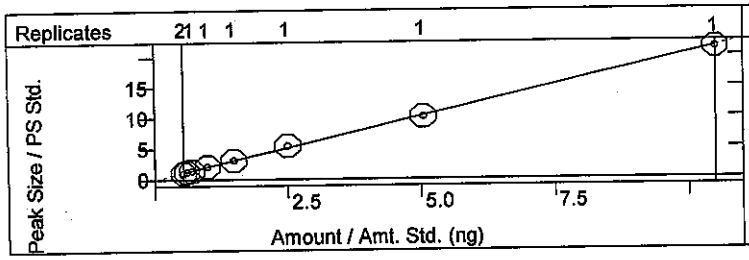
tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
y = +4.8558x +0.0500



2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056

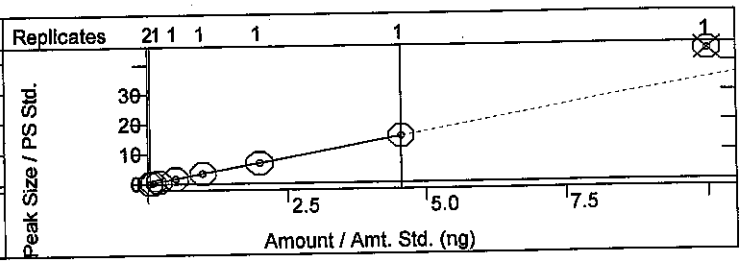


4-Bromofluorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
y = +2.0454x -0.0066



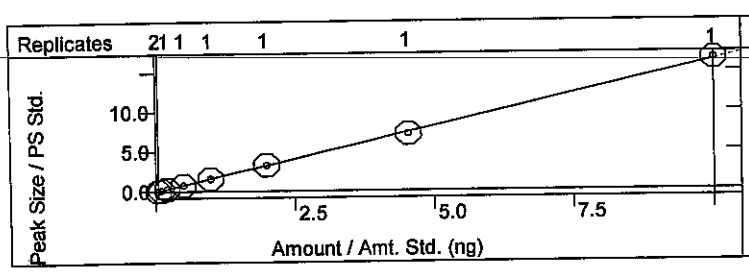
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224

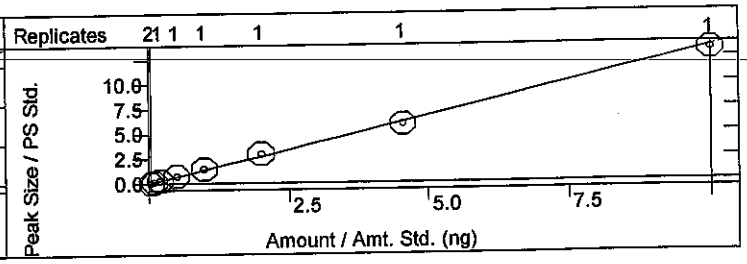
CPD 5.1



4-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
y = +1.6334x -0.0125

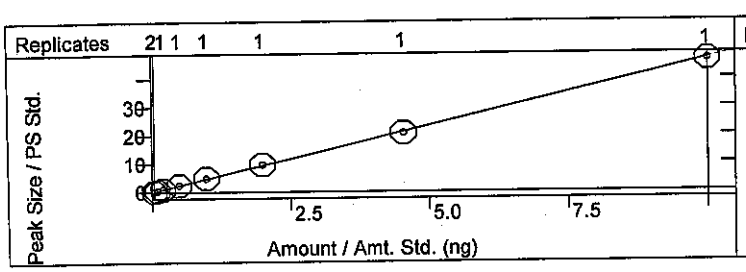
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085

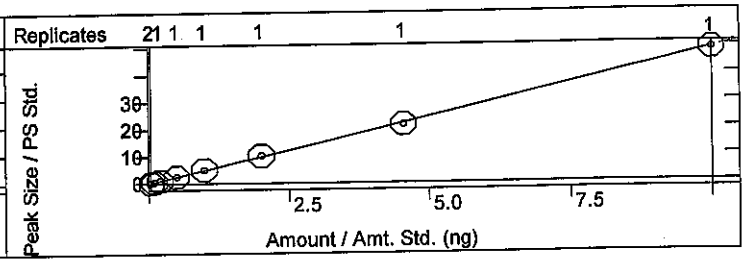




1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045





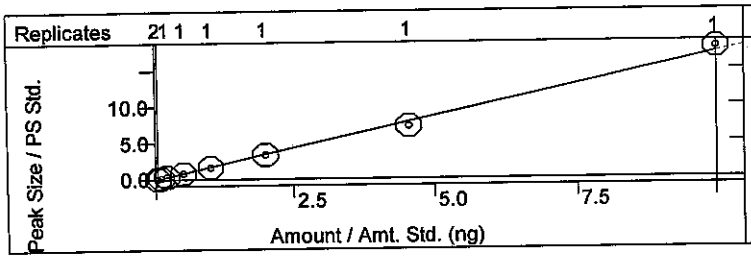
Calibration Curves Report

JH 8-4-14

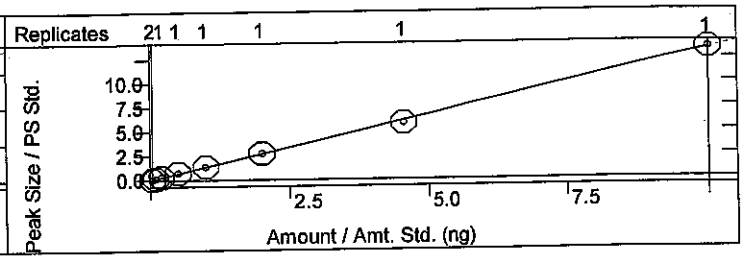
Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

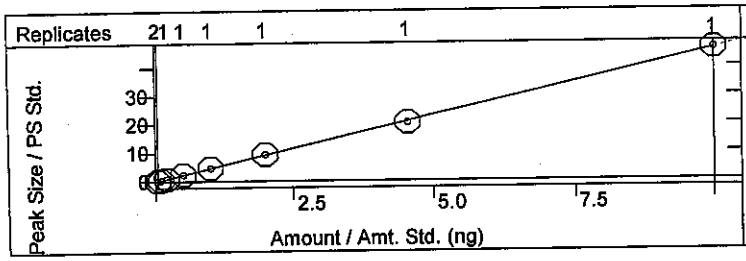
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
y = +1.7279x -0.0156



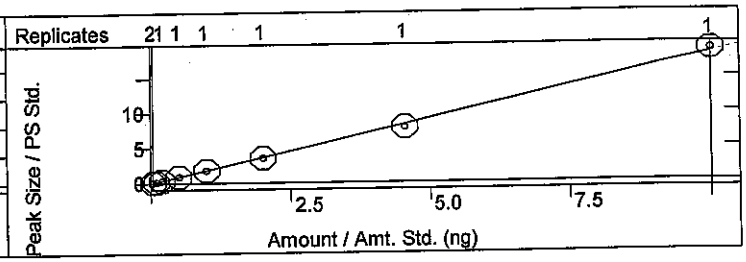
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



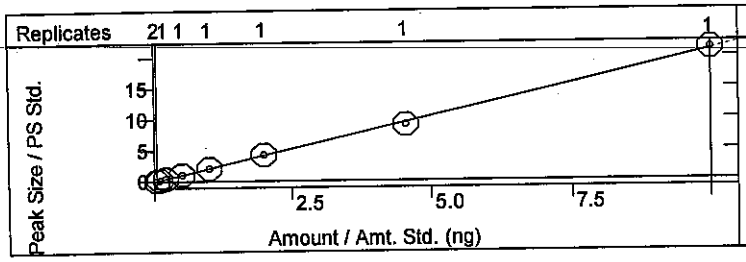
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
y = +4.6211x -0.0548



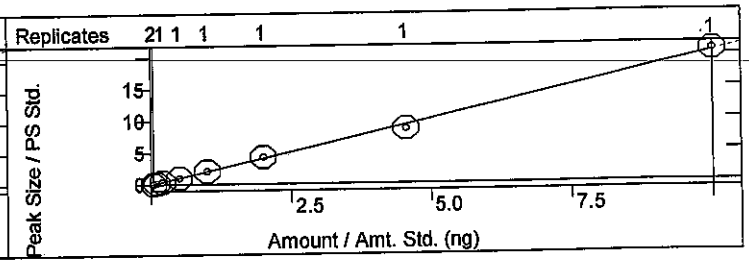
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



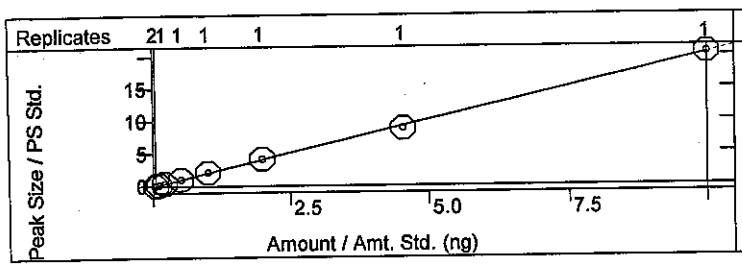
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
y = +2.0976x -0.0059



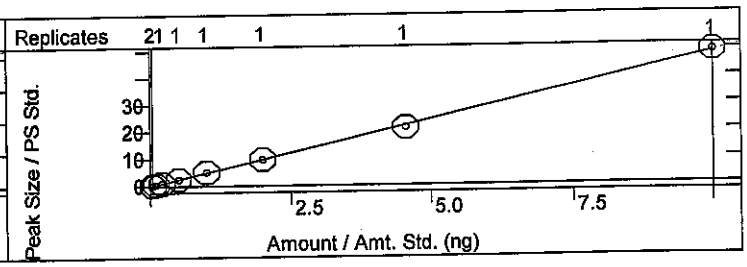
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
y = +2.0262x +0.0044



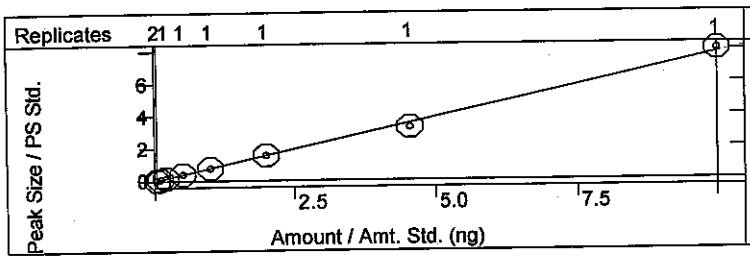
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4



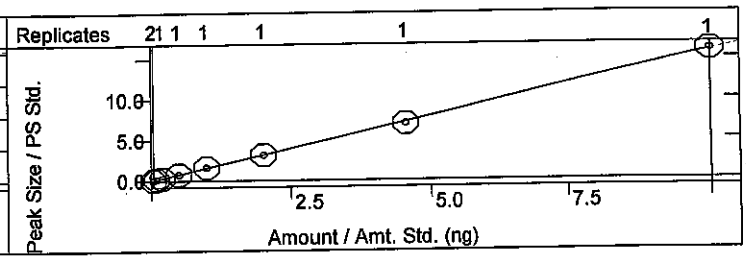
Calibration Curves Report

Method:	c:\varianws\methods\080114v 8260,624.mth		
Recalc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
Sample List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

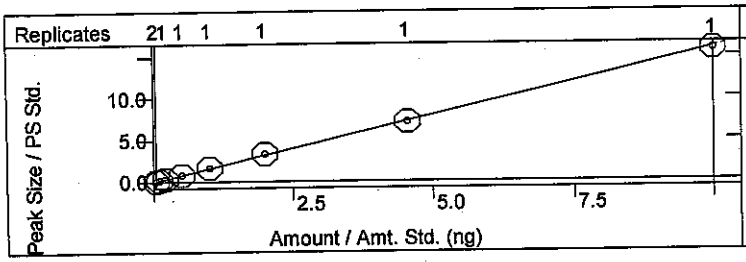
1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
y = +0.7777x +5.7904e-4



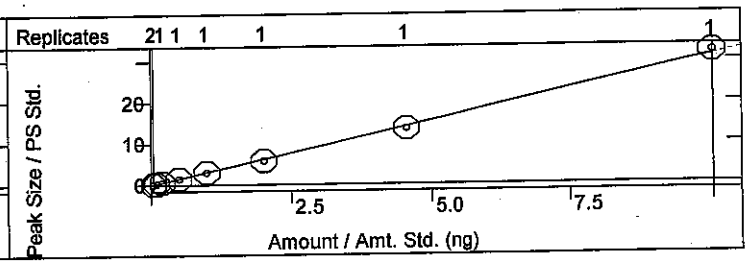
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



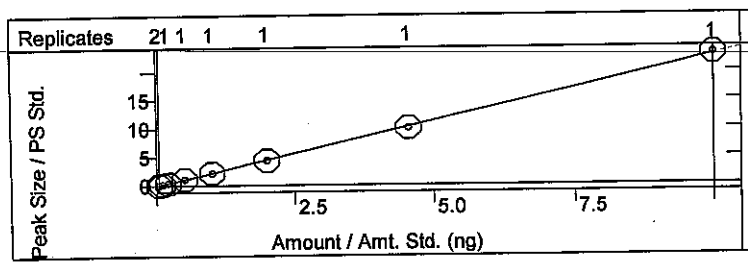
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
y = +1.5947x -0.0060



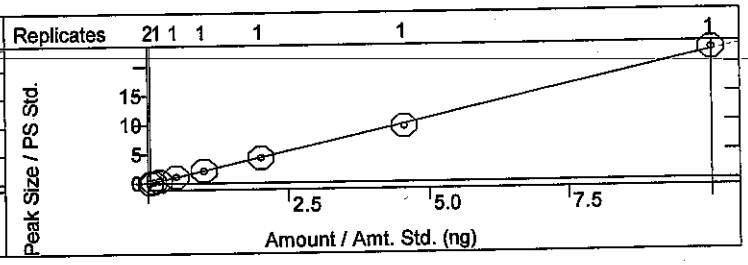
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
y = +2.2743x -0.0288



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



arian Star Workstation - Generic SampleList Fri Aug 08 15:15:10 2014

ampleList: C:\VarianWS\080814v.smp

reated: Fri Aug 08 07:43:59 2014
odified: Fri Aug 08 15:14:52 2014

****

Line	Sample Name	Injection Notes
1	5mL-rb	below tune @8:16
	Notes All injections contain V-52-0496	
2	rtm	below
	Notes V-18-2064	
3	2.0ug ccv GRO	below
	Notes V-18-2061	
4	50ng ccv	below
	KSH 8/11/14 5 Notes V-54-0459	
5	2.0ug ccv GRO2	below @10:10
	Notes V-18-2061	
6	2.5ug lcs GRO	below
	Notes V-18-2067	
7	tt	none
8	50ng ccv2	below @11:54
	Notes V-51-0460	
9	100ng lcs	below
	Notes V-11-8061	
10	vcb	none tune @12:47
11	1408298-002a ms	below
	Notes r1-100uL V-11-8061	
12	1408298-002a msd	below
	Notes r1-100uL V-11-8061	
13	1408347-001a	below
	Notes x10-10uL GRO	
14	1408347-002a	below
	Notes x1-100uL FB	
15	1408244-001a	below r10
	Notes x1-5mL	
16	1408244-001a ms	below 8
	Notes x1-5mL V-11-8061	
17	1408244-001a msd	below 8 KSH 8/11/14
	Notes x1-5mL V-11-8061	
18	1408244-002a	below
	Notes x1-5mL	
19	1408244-003a	below
	Notes x1-5mL	
20	1408244-004a	below
	Notes x1-5mL	
21	1408244-005a	below
	Notes x1-5mL	
22	1408244-006a	below
	Notes x1-5mL	
23	1408244-007a	below
	Notes x1-5mL	
24	1408244-008a	below
	Notes x1-5mL	
25	1408244-009a	below
	Notes x1-5mL TB	
26	1408222-001a	below
	Notes x10-0.5mL	
27	1408222-001a	below
	Notes r1-5mL	
28	b1	none
29	1408222-002a	below
	Notes x1-5mL	
30 handcalc	1408222-003a	below
	Notes x1-5mL	
31	1408222-004a	below
	Notes x1-5mL	
32	1408222-005a	below @11:04
	Notes x1-5mL TB	
33	tt	none
34	b2	none tune @12:00
35	100ng ccv	below @12:28
	Notes V-54-0460	
36	vcb	none

Loaded By: KSH 8/8/14
1st Review By: KSH 8/11/14
QA'd By: NB 8/12/14

```
                Notes   x100-0.05mL
38          1408245-001a      below r1
                Notes   r10-0.5mL
39                  b2        none
40          1408245-002a      below
                Notes   x500-0.01mL
41          1408245-002a      below
                Notes   r50-0.1mL
42                  b3        none
43          1408346-001a      below
                Notes   x20-0.25mL SL
44          1408346-003a      below
                Notes   x20-0.25mL SL
45          1408346-005a      below
                Notes   x20-0.25mL SL
46          1408346-007a      below @5:35
                Notes   x20-0.25mL SL
47                  tt        none
48                  b4        none
49                  b5        none
50                  b6        none
51                  b7        none
52

irectory for Data Files: C:\VarianWS\data

        Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\080814v.rcl.
```

Loaded By: KSH 8/8/14
1st Review By: KSH 8/11/14
QA'd By: VNBS 8/12/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\val\data\2014v\0814v\080814v\50ng ccv2 8-8-2014.SMS Lab Sample ID: 50ng ccv2

Instrument ID: VAL Date Analyzed: 8/8/2014 Time Analyzed: 11:51

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	37004	8.00	55056	14.30	30552	17.91						
UPPER LIMIT	74008	8.50	110112	14.80	61104	18.41						
LOWER LIMIT	18502	7.50	27528	13.80	15276	17.41						
EPA SAMPLE NO												
5mL-rb 8-8	40204	7.99	53011	14.32	36684	17.92						
rtm 8-8-20	37859	8.00	52951	14.31	30880	17.91						
2.0ug ccv	37806	7.99	54800	14.30	30437	17.91						
50ng ccv 8	36740	7.99	55881	14.30	32723	17.91						
2.0ug ccv	38831	7.99	57275	14.31	32372	17.91						
2.5ug lcs	37539	8.00	54374	14.31	30997	17.91						
tt 8-8-201	34383	8.00	50371	14.31	29459	17.91						
100ng lcs	35137	8.00	52934	14.30	29187	17.91						
vcb 8-8-20	39316	8.00	54391	14.31	31136	17.91						
1408298-00	33390	7.99	49012	14.30	33983	17.91						
1408298-00	36493	7.99	51856	14.31	35304	17.92						
1408347-00	39126	8.00	56749	14.31	31304	17.91						
1408347-00	37374	8.00	50471	14.31	33799	17.91						
1408244-00	38470	8.00	54007	14.31	30503	17.91						
1408244-00	35539	8.00	52213	14.31	29578	17.91						
1408244-00	36285	8.00	51510	14.31	28975	17.91						

JDB 8/12/14

KJH 8/11/14

8/11/2014 9:49

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
1408244-00	35439	8.00	51643	14.31	29575	17.92						
1408244-00	34313	8.00	50068	14.31	29006	17.91						
1408244-00	34400	8.00	50016	14.31	28307	17.91						
1408244-00	33358	8.00	49936	14.31	28295	17.92						
1408244-00	34891	8.00	50964	14.32	28915	17.92						
1408244-00	34708	8.00	50172	14.31	29676	17.92						
1408244-00	34193	8.00	49271	14.31	27327	17.91						
1408244-00	33162	8.00	50106	14.31	28025	17.91						
1408222-00	34983	8.00	51807	14.31	29613	17.92						
1408222-00	34752	8.00	50584	14.31	28121	17.92						
b1 8-8-201	34545	8.00	50974	14.31	29071	17.92						
1408222-00	35042	8.00	48962	14.31	28434	17.91						
1408222-00	33197	8.00	50760	14.31	29034	17.91						
1408222-00	34823	8.00	50247	14.31	28512	17.91						
1408222-00	32182	8.00	48644	14.31	27785	17.91						
tt 8-8-201	34588	8.00	50483	14.31	28364	17.91						
b2 8-9-201	34008	7.99	49548	14.31	28044	17.91						
100ng ccv	34576	8.00	53118	14.31	29641	17.91						
vcb 8-9-20	34096	8.00	46500	14.31	32312	17.91						
1408245-00	35339	7.99	51597	14.30	28729	17.91						
1408245-00	33072	8.00	48397	14.31	27312	17.91						
b2 8-9-201	35843	8.00	50645	14.31	29100	17.91						
1408245-00	34559	8.00	51342	14.30	29182	17.91						
1408245-00	32845	8.00	47920	14.31	27453	17.91						
b3 8-9-201	33787	7.99	47505	14.31	32187	17.92						
1408346-00	36312	8.00	52276	14.31	29476	17.91						
1408346-00	33225	8.00	48739	14.31	29193	17.91						
1408346-00	35893	8.00	52029	14.30	28857	17.91						
1408346-00	35132	8.00	50834	14.31	28876	17.91						
tt 8-9-201	36717	7.99	48063	14.31	32251	17.91						
b4 8-9-201	33943	7.99	49159	14.30	27045	17.91						
b5 8-9-201	34375	8.00	49416	14.31	29123	17.91						
b6 8-9-201	31829	7.99	47098	14.30	27561	17.91						
b7 8-9-201	31973	8.00	47379	14.30	27359	17.91						

JDB 8/12/14

KJH 8/11/14

8/11/2014 9:49

Analyst: KJH

Internal Standard And RT Summary

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
IS1				IS2			IS3											

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): a\2014v\0814v\080814v\gro\2.0ug ccv GRO2 8-8-2014.SMS Lab Sample ID: 2.0ug ccv GRO2

Instrument ID: VAL Date Analyzed: 8/8/2014 Time Analyzed: 10:10

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1																	
12 HOUR STD	56803	14.31																
UPPER LIMIT	113606	14.81																
LOWER LIMIT	28402	13.81																
EPA SAMPLE NO																		
5mL-rb 8-8	52525	14.32																
rtm 8-8-20	52883	14.31																
2.0ug ccv	54474	14.30																
2.5ug lcs	53773	14.31																
1408347-00	56493	14.31																

KSH 8/11/14 8/12/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

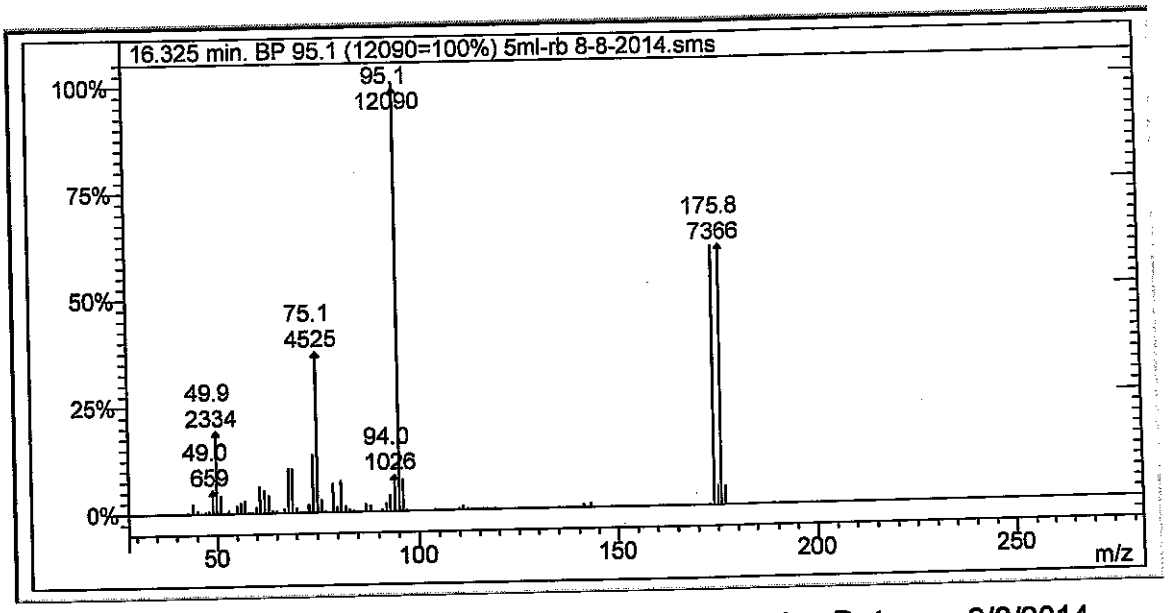
Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Analyst: KJH

BFB 8260B Report



Lab File ID: 5ml-rb 8-8-2014.sms

Injection Date: 8/8/2014

Injection Time: 8:16

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.31	PASS
75	30-60% of m/z 95	37.43	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	7.41	PASS
173	<2% of m/z 174	0.38	PASS
174	>50% of m/z 95	60.62	PASS
175	5-9% of m/z 174	7.56	PASS
176	>95% but <101% of m/z 174	100.50	PASS
177	5-9% of m/z 176	7.14	PASS

KJH 8/11/14

JDS 8/12/14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.sms Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1											
12 HOUR STD	99543	14.31										
UPPER LIMIT	199086	14.81										
LOWER LIMIT	49772	13.81										
EPA SAMPLE NO												
2.0ug ccv	56803	14.31										

KJH 8/11/14 NJB 8/12/14

IS1 = Benzene-d5-, chloro-

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

8/8/2014 10:45

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/8/2014 Time: 10:10

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.0ug ccv gro2 8-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2709.199	0.100	2.50	2.52	-0.8	20.0	PASS	PASS
BFB	1.021	0.100	50.00	49.07	1.9	30.0	PASS	PASS

KJH 8/11/14

JNB 8/12/14

8/8/2014 10:45 Page 1 of 1 2.0ug ccv gro2 8-8-2014.sms

Analyst: KJH

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): :\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.sms Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
50ng ccv2	37004	8.00	55056	14.30	30552	17.91						

KJH 8/11/14

JDB 8/12/14

IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Internal Standard And RT Summary

8/8/2014 12:20

Analyst: KJH

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/8/2014 Time: 11:51

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\50ng ccv2 8-8-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.919	0.100	50.00	70.48	-41.0	30.0	FAIL	PASS
Chloromethane	0.377	0.100	50.00	41.30	17.4	30.0	PASS	PASS
Vinyl chloride	1.280	0.100	50.00	48.08	3.8	20.0	PASS	PASS
Chloroethane	0.169	0.100	50.00	39.30	21.4	30.0	PASS	PASS
Bromomethane	0.458	0.100	50.00	27.53	44.9	30.0	FAIL	PASS
Trichlorofluoromethane	0.926	0.100	50.00	55.54	-11.1	30.0	PASS	PASS
1,1-Dichloroethene	1.375	0.100	50.00	57.77	-15.5	20.0	PASS	PASS
Acetone	0.432	0.100	100.00	87.35	12.6	40.0	PASS	PASS
Carbon disulfide	1.173	0.100	100.00	124.43	-24.4	40.0	PASS	PASS
Iodomethane	0.154	0.100	100.00	47.82	52.2	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.300	0.100	100.00	103.38	-3.4	30.0	PASS	PASS
Isopropyl ether	1.461	0.100	100.00	109.35	-9.4	40.0	PASS	PASS
tert-Butyl alcohol	0.233	0.100	1000.00	879.02	12.1	40.0	PASS	PASS
trans-1,2-DCE	1.475	0.100	50.00	53.66	-7.3	30.0	PASS	PASS
tert-Butyl ethyl ether	3.002	0.100	100.00	114.24	-14.2	40.0	PASS	PASS
1,1-Dichloroethane	1.375	0.100	50.00	48.54	2.9	30.0	PASS	PASS
Methylene Chloride	1.407	0.100	50.00	48.47	3.1	30.0	PASS	PASS
Vinyl Acetate	2.139	0.100	100.00	121.15	-21.2	40.0	PASS	PASS
2,2-Dichloropropane	0.911	0.100	50.00	56.59	-13.2	30.0	PASS	PASS
2-Butanone	0.401	0.100	100.00	81.25	18.8	40.0	PASS	PASS
1,1,1-Trichloroethane	1.544	0.100	50.00	52.20	-4.4	30.0	PASS	PASS
tert-Amyl methyl ether	1.434	0.100	100.00	104.37	-4.4	40.0	PASS	PASS
1,1-Dichloropropene	0.711	0.100	50.00	53.34	-6.7	30.0	PASS	PASS
Carbon Tetrachloride	3.273	0.100	50.00	53.11	-6.2	30.0	PASS	PASS
cis-1,2-DCE	1.973	0.100	50.00	51.45	-2.9	30.0	PASS	PASS
Benzene	1.892	0.100	50.00	52.35	-4.7	30.0	PASS	PASS
Chloroform	1.353	0.100	50.00	54.95	-9.9	20.0	PASS	PASS
Bromochloromethane	0.485	0.100	50.00	55.65	-11.3	30.0	PASS	PASS
Trichloroethene (TCE)	1.336	0.100	50.00	55.38	-10.8	30.0	PASS	PASS
Dibromofluoromethane	1.646	0.100	50.00	47.76	4.5	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.359	0.100	50.00	47.78	4.4	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.713	0.100	50.00	52.68	-5.4	30.0	PASS	PASS
1,2-Dichloropropane	1.936	0.100	50.00	53.47	-6.9	20.0	PASS	PASS
4-Methyl-2-pentanone	1.872	0.100	100.00	100.92	-0.9	40.0	PASS	PASS
Toluene-d8	1.775	0.100	50.00	45.43	9.1	30.0	PASS	PASS

3 nr hits

2 nmr

2 nr

nSH 8/11/14

JBB 8/12/14

Analyst: KJH

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.682	0.100	50.00	50.78	-1.6	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.976	0.100	100.00	97.49	2.5	40.0	PASS	PASS
Tetrachloroethene (PCE)	1.358	0.100	50.00	53.73	-7.5	30.0	PASS	PASS
cis-1,3-dichloropropene	1.960	0.100	50.00	47.36	5.3	30.0	PASS	PASS
2-Hexanone	0.901	0.100	100.00	99.51	0.5	40.0	PASS	PASS
Bromodichloromethane	2.475	0.100	50.00	49.47	1.1	30.0	PASS	PASS
Dibromomethane	1.200	0.100	50.00	51.62	-3.2	30.0	PASS	PASS
1,3-Dichloropropane	1.395	0.100	50.00	47.74	4.5	30.0	PASS	PASS
trans-1,3-dichloropropene	0.761	0.100	50.00	48.85	2.3	30.0	PASS	PASS
Ethylbenzene	2.911	0.100	50.00	49.57	0.9	20.0	PASS	PASS
mp-Xylenes	2.655	0.100	100.00	98.63	1.4	30.0	PASS	PASS
1,1,2-Trichloroethane	1.627	0.100	50.00	46.94	6.1	30.0	PASS	PASS
Chlorobenzene	1.275	0.300	50.00	49.23	1.5	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.395	0.100	50.00	49.33	1.3	30.0	PASS	PASS
o-Xylene	2.600	0.100	50.00	48.85	2.3	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.236	0.100	50.00	48.71	2.6	30.0	PASS	PASS
Dibromochloromethane	1.267	0.100	50.00	48.81	2.4	30.0	PASS	PASS
Isopropylbenzene	2.497	0.100	50.00	47.93	4.1	30.0	PASS	PASS
Styrene	1.192	0.100	50.00	47.25	5.5	30.0	PASS	PASS
n-Propylbenzene	5.849	0.100	50.00	47.74	4.5	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.173	0.100	50.00	46.95	6.1	30.0	PASS	PASS
tert-Butylbenzene	4.550	0.100	50.00	46.33	7.3	30.0	PASS	PASS
2-Chlorotoluene	1.436	0.100	50.00	45.89	8.2	30.0	PASS	PASS
4-Bromofluorobenzene	1.842	0.100	50.00	45.18	9.6	30.0	PASS	PASS
sec-Butylbenzene	2.973	0.100	50.00	43.74	12.5	30.0	PASS	PASS
4-Chlorotoluene	1.482	0.100	50.00	45.74	8.5	30.0	PASS	PASS
Bromobenzene	1.384	0.100	50.00	51.00	-2.0	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.332	0.100	50.00	46.21	7.6	30.0	PASS	PASS
4-Isopropyltoluene	4.463	0.100	50.00	45.67	8.7	30.0	PASS	PASS
Bromoform	1.399	0.100	50.00	40.93	18.1	30.0	PASS	PASS
1,2,3-Trichloropropane	1.260	0.100	50.00	46.72	6.6	30.0	PASS	PASS
n-Butylbenzene	4.227	0.100	50.00	46.33	7.3	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.772	0.300	50.00	48.62	2.8	30.0	PASS	PASS
1,3-Dichlorobenzene	2.006	0.100	50.00	47.95	4.1	30.0	PASS	PASS
1,4-Dichlorobenzene	1.965	0.100	50.00	48.59	2.8	30.0	PASS	PASS
1,2-Dichlorobenzene	1.985	0.100	50.00	48.89	2.2	30.0	PASS	PASS
Hexachlorobutadiene	3.858	0.100	50.00	39.71	20.6	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.703	0.100	50.00	45.14	9.7	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.442	0.100	50.00	45.93	8.1	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.477	0.100	50.00	46.49	7.0	30.0	PASS	PASS
Naphthalene	2.634	0.100	50.00	43.09	13.8	30.0	PASS	PASS
2-Methylnaphthalene	2.110	0.100	50.00	47.02	6.0	40.0	PASS	PASS
1-Methylnaphthalene	1.915	0.100	50.00	44.05	11.9	40.0	PASS	PASS

KJH 8/11/14

KJH 8/12/14

Analyst: KJH

Analytical Report
Lab Order: **1408347**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Lab ID: 1408347-001
Client Sample ID: FFOR-CF-0042
Collection Date: 8/7/2014 10:26:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/12/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Aniline	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Anthracene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Benz(a)anthracene	0.13	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Benzo(a)pyrene	0.12	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Benzo(b)fluoranthene	0.20	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Benzo(g,h,i)perylene	0.23	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Carbazole	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Chrysene	0.11	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Di-n-butyl phthalate	0.066	0.55	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408347

Comment: DUE 08/12/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **DAM**

Fluoranthene	0.12	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Fluorene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Hexachloroethane	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Indeno(1,2,3-cd)pyrene	0.28	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Isophorone	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Methylnaphthalene	1.5	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Methylphenol	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
3+4-Methylphenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
N-Nitrosodi-n-propylamine	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Naphthalene	0.52	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Nitroaniline	ND	0.44		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Nitrobenzene	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
4-Nitrophenol	ND	0.28		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Pentachlorophenol	ND	0.44		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Phenanthrene	0.058	0.22	J	mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Phenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Pyrene	0.27	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Pyridine	ND	0.55		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	14682	8/12/2014 1:14:58 PM
Surr: 2-Fluorophenol	80.8	21-111		%REC	1	14682	8/12/2014 1:14:58 PM
Surr: Phenol-d5	84.9	23.1-117		%REC	1	14682	8/12/2014 1:14:58 PM
Surr: 2,4,6-Tribromophenol	108	22.7-88.9	S	%REC	1	14682	8/12/2014 1:14:58 PM
Surr: Nitrobenzene-d5	92.5	24.5-126		%REC	1	14682	8/12/2014 1:14:58 PM
Surr: 2-Fluorobiphenyl	100	21.2-129		%REC	1	14682	8/12/2014 1:14:58 PM
Surr: 4-Terphenyl-d14	100	39.4-107		%REC	1	14682	8/12/2014 1:14:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSD limit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

Not Sufficient Sample for MS/MSD SC

Time Started: 12:00

Time Ended: 6:00

Reviewed By: dam 8/12/14

PREP BATCH REPORT

Extraction Method 3540

Prep Start Date: **8/9/2014 10:35:54 A**
Prep End Date:

Prep Batch ID: **14682** Prep Code: **8270SOX_PR** Method No: **3540** Technician: **Steve Crandell**

Initial Temp: **°C** Final Temp **°C**

Prep Factor Units: **mL / g**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14682	SC 8.9	Soil			30	0	0	dam 8/12 1	0.033	8/9/2014	
LCS-14682		Soil			30	0	0	1	0.033	8/9/2014	
LCSD-14682		Soil			30	0	0	1	0.033	8/9/2014	
1408347-001A	FFOR-CF-0042	MeOH (Soil)			~~30~~ 29.9	0	0	1	0.033	8/9/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500 SC 8-9	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20 dam 8/12	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500 SC 8-9	µL

Varian Star Workstation - 8400 SampleList Tue Aug 12 15:22:05 2014

SampleList: C:\VarianWS\081214.smp

Created: Tue Aug 12 11:02:26 2014
Modified: Tue Aug 12 15:10:41 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	50ppm ccv	1	below	1	1.0
	Notes sv110-0594				
3	mb-14682	1	below	2	1.0
	Notes x1 soil				
4	lcs-14682	1	below	3	1.0
	Notes x1 soil				
5	1408347-001a	1	below	4	1.0
	Notes x1 soil				
6	lcsd-14682	1	below	5	1.0
	Notes x1 soil				
7					

dam 8/12/14

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\081214.rcl.

JV 8-13-14

Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☒	☐	☐	☒	
Pyridine	☒	☐	☐	☒	
2-Fluorophenol	N/A	N/A	☐	☒	
Phenol-d5	N/A	N/A	☐	☒	
Phenol	☒	☐	☐	☒	
Aniline	☒	☐	☐	☒	
Bis(2-chloroethyl)ether	☒	☐	☐	☒	
2-Chlorophenol	☒	☐	☐	☒	
1,3-Dichlorobenzene	☒	☐	☐	☒	
1,4-Dichlorobenzene	☒	☐	☐	☒	
Benzyl alcohol	☒	☐	☐	☒	
1,2-Dichlorobenzene	☒	☐	☐	☒	
2-Methylphenol	☒	☐	☐	☒	
Bis(2-chloroisopropyl)ether	☒	☐	☐	☒	
3+4-Methylphenol	☒	☐	☐	☒	
N-Nitrosodi-n-propylamine	☒	☐	☐	☒	
Hexachloroethane	☒	☐	☐	☒	
Nitrobenzene-d5	N/A	N/A	☐	☒	
Nitrobenzene	☒	☐	☐	☒	
Isophorone	☒	☐	☐	☒	
2-Nitrophenol	☒	☐	☐	☒	
2,4-Dimethylphenol	☒	☐	☐	☒	
Benzoic acid	☒	☐	☐	☒	
Bis(2-chloroethoxy)methane	☒	☐	☐	☒	
2,4-Dichlorophenol	☒	☐	☐	☒	
1,2,4-Trichlorobenzene	☒	☐	☐	☒	
Naphthalene	☒	☐	☐	☒	
4-Chloroaniline	☒	☐	☐	☒	
Hexachlorobutadiene	☒	☐	☐	☒	
4-Chloro-3-methylphenol	☒	☐	☐	☒	
2-Methylnaphthalene	☒	☐	☐	☒	
1-Methylnaphthalene	☒	☐	☐	☒	
Hexachlorocyclopentadiene	☒	☐	☐	☒	
2,4,6-Trichlorophenol	☒	☐	☐	☒	
2,4,5-Trichlorophenol	☒	☐	☐	☒	
2-Fluorobiphenyl	N/A	N/A	☐	☒	
2-Chloronaphthalene	☒	☐	☐	☒	
2-Nitroaniline	☒	☐	☐	☒	
Dimethyl phthalate	☒	☐	☐	☒	
2,6-Dinitrotoluene	☒	☐	☐	☒	
Acenaphthylene	☒	☐	☐	☒	
3-Nitroaniline	☒	☐	☐	☒	
Acenaphthene	☒	☐	☐	☒	
2,4-Dinitrophenol	☒	☐	☐	☒	
4-Nitrophenol	☒	☐	☐	☒	
Dibenzofuran	☒	☐	☐	☒	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

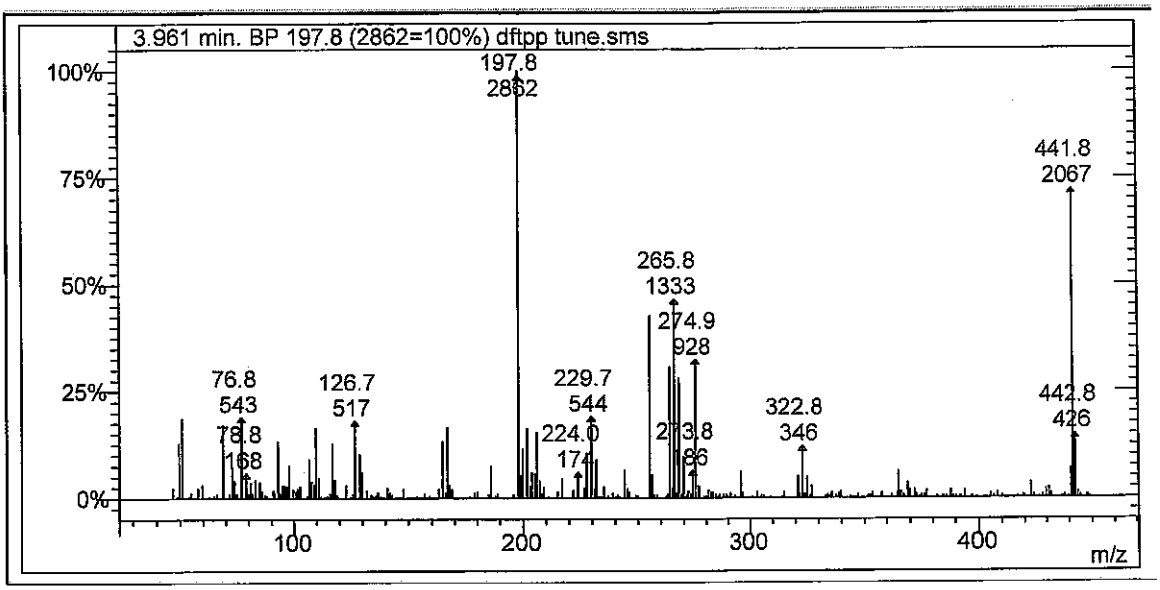
Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/12/2014

Injection Time: 11:05

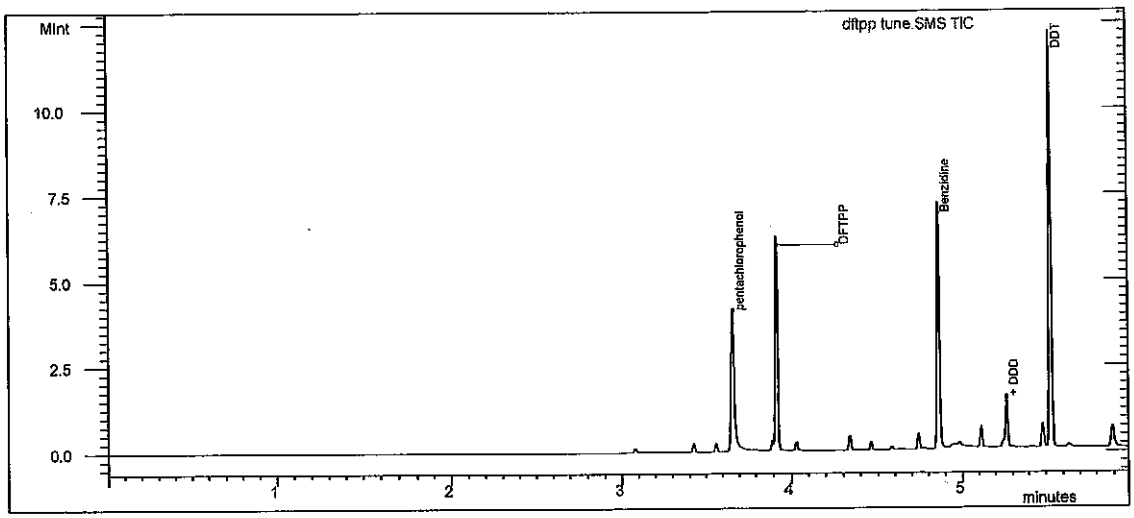
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	18.55	PASS
68	<2% of m/z 69	0.00	PASS
69	Present	17.19	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	18.06	PASS
197	<2% of m/z 198	0.00	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.38	PASS
275	10-60% of base peak	32.42	PASS
365	>1% of base peak	6.25	PASS
441	Present and <m/z 443	46.24	PASS
442	>50% of m/z 198	72.22	PASS
443	15-24% of m/z 442	20.61	PASS

dlm 8/12/14

DV 8.13.14

Degradation Report

Acquisition Date:	8/12/2014 11:05:24 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.534	3.151E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.265	342691	5
DDE	4.985	7022	6

% Degradation of DDT : = 9.99

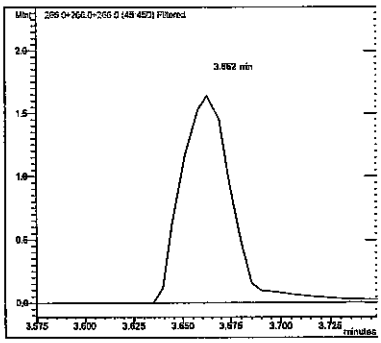
✓ L 20 dam 8/12/14

JC 8-13-14

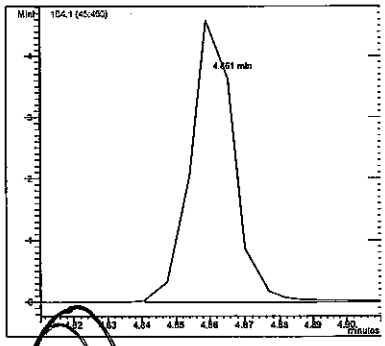
Tailing and Gaussian Factor Report

Acquisition Date:	8/12/2014 11:05:24 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.662 Area = 3.064E6



Benzidine
RT = 4.861 Area = 4.058E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.662	1.225	0.841
Benzidine	4.861	1.386	0.914

LS
LB

dmm 9/12/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.662	3.064E6
3	Benzidine	4.861	4.058E6

8.13.14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
50ppm ccv	188405	5.18	611698	6.90	280692	9.50	561826	11.75	568404	15.77	718160	17.92

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dam 8/12/14
JE 8-13-14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\081214\50ppm ccv.SMS Lab Sample ID: 50ppm ccv

Instrument ID: ELMO Date Analyzed: 8/12/2014 Time Analyzed: 11:18

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	188405	5.18	611698	6.90	280692	9.50	561826	11.75	568404	15.77	718160	17.92
UPPER LIMIT	376810	5.68	1.223E6	7.40	561384	10.00	1.124E6	12.25	1.137E6	16.27	1.436E6	18.42
LOWER LIMIT	94203	4.68	305849	6.40	140346	9.00	280913	11.25	284202	15.27	359080	17.42
EPA SAMPLE NO												
mb-14682	138029	5.18	462511	6.90	220770	9.50	447941	11.75	502396	15.77	589481	17.92
lcs-14682	109850	5.18	343226	6.90	165803	9.50	310945	11.75	336815	15.76	398058	17.92
1408347-00	151945	5.18	492752	6.90	227060	9.50	403475	11.74	457741	15.76	573002	17.92
lcsd-14682	140563	5.18	431939	6.90	202677	9.50	364075	11.75	407622	15.77	514967	17.93

dlm 8/12/14

JC 8-13-14

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/12/2014 Time: 11:18

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\50ppm ccv.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.027	0.050	50.00	49.16	1.7	40.0	PASS	PASS
Pyridine	9.692	0.050	50.00	53.16	-6.3	40.0	PASS	PASS
2-Fluorophenol	1.041	0.050	50.00	45.35	9.3	40.0	PASS	PASS
Phenol-d5	1.075	0.050	50.00	49.23	1.5	40.0	PASS	PASS
Phenol	1.125	0.050	50.00	45.79	8.4	20.0	PASS	PASS
Aniline	3.474	0.050	50.00	42.44	15.1	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.849	0.050	50.00	45.81	8.4	40.0	PASS	PASS
2-Chlorophenol	1.162	0.050	50.00	48.55	2.9	40.0	PASS	PASS
1,3-Dichlorobenzene	1.421	0.050	50.00	47.09	5.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.461	0.050	50.00	51.22	-2.4	20.0	PASS	PASS
Benzyl alcohol	1.131	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
1,2-Dichlorobenzene	1.394	0.050	50.00	49.53	0.9	40.0	PASS	PASS
2-Methylphenol	0.975	0.050	50.00	49.94	0.1	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.158	0.050	50.00	41.21	17.6	40.0	PASS	PASS
3+4-Methylphenol	1.064	0.050	50.00	43.28	13.4	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.411	0.050	50.00	48.18	3.6	40.0	PASS	PASS
Hexachloroethane	4.785	0.050	50.00	51.65	-3.3	40.0	PASS	PASS
Nitrobenzene-d5	0.299	0.050	50.00	48.45	3.1	40.0	PASS	PASS
Nitrobenzene	0.313	0.050	50.00	49.42	1.2	40.0	PASS	PASS
Isophorone	0.622	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
2-Nitrophenol	0.315	0.050	50.00	50.68	-1.4	20.0	PASS	PASS
2,4-Dimethylphenol	0.340	0.050	50.00	46.62	6.8	40.0	PASS	PASS
Benzoic acid	2.670	0.050	50.00	60.24	-20.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.381	0.050	50.00	52.69	-5.4	40.0	PASS	PASS
2,4-Dichlorophenol	0.344	0.050	50.00	48.70	2.6	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.310	0.050	50.00	47.35	5.3	40.0	PASS	PASS
Naphthalene	0.843	0.050	50.00	50.80	-1.6	40.0	PASS	PASS
4-Chloroaniline	0.392	0.050	50.00	50.60	-1.2	40.0	PASS	PASS
Hexachlorobutadiene	0.606	0.050	50.00	45.58	8.8	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.399	0.050	50.00	47.65	4.7	20.0	PASS	PASS
2-Methylnaphthalene	0.231	0.050	50.00	45.94	8.1	40.0	PASS	PASS
1-Methylnaphthalene	0.237	0.050	50.00	46.10	7.8	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.434	0.050	50.00	43.31	13.4	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.333	0.050	50.00	46.44	7.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.299	0.050	50.00	44.95	10.1	40.0	PASS	PASS
2-Fluorobiphenyl	1.491	0.050	50.00	48.61	2.8	40.0	PASS	PASS

lam 8/12/14

8-13-14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.536	0.050	50.00	49.08	1.8	40.0	PASS	PASS
2-Nitroaniline	1.106	0.050	50.00	49.59	0.8	40.0	PASS	PASS
Dimethyl phthalate	3.022	0.050	50.00	52.51	-5.0	40.0	PASS	PASS
2,6-Dinitrotoluene	0.699	0.050	50.00	50.64	-1.3	40.0	PASS	PASS
Acenaphthylene	1.920	0.050	50.00	49.27	1.5	40.0	PASS	PASS
3-Nitroaniline	1.113	0.050	50.00	51.09	-2.2	40.0	PASS	PASS
Acenaphthene	1.256	0.050	50.00	49.70	0.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.672	0.050	50.00	62.86	-25.7	40.0	PASS	PASS
4-Nitrophenol	0.207	0.050	50.00	53.58	-7.2	40.0	PASS	PASS
Dibenzofuran	0.787	0.050	50.00	42.81	14.4	40.0	PASS	PASS
2,4-Dinitrotoluene	0.329	0.050	50.00	44.62	10.8	40.0	PASS	PASS
Diethyl phthalate	2.567	0.050	50.00	51.14	-2.3	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.736	0.050	50.00	44.09	11.8	40.0	PASS	PASS
Fluorene	2.511	0.050	50.00	48.26	3.5	40.0	PASS	PASS
4-Nitroaniline	1.992	0.050	50.00	51.54	-3.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.549	0.050	50.00	62.69	-25.4	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.667	0.050	50.00	50.07	-0.1	20.0	PASS	PASS
Azobenzene	0.903	0.050	50.00	48.13	3.7	40.0	PASS	PASS
2,4,6-Tribromophenol	1.633	0.050	50.00	49.31	1.4	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.488	0.050	50.00	47.75	4.5	40.0	PASS	PASS
Hexachlorobenzene	0.504	0.050	50.00	45.56	8.9	40.0	PASS	PASS
Pentachlorophenol	1.555	0.050	50.00	54.67	-9.3	20.0	PASS	PASS
Phenanthrene	0.938	0.050	50.00	48.75	2.5	40.0	PASS	PASS
Anthracene	0.970	0.050	50.00	49.83	0.3	40.0	PASS	PASS
Carbazole	0.888	0.050	50.00	46.82	6.4	40.0	PASS	PASS
Di-n-butyl phthalate	1.999	0.050	50.00	49.68	0.6	40.0	PASS	PASS
Fluoranthene	0.885	0.050	50.00	47.51	5.0	20.0	PASS	PASS
Benzidine	0.540	0.050	50.00	48.27	3.5	40.0	PASS	PASS
Pyrene	0.848	0.050	50.00	50.72	-1.4	40.0	PASS	PASS
4-Terphenyl-d14	1.101	0.050	50.00	46.07	7.9	40.0	PASS	PASS
Butyl benzyl phthalate	0.992	0.050	50.00	52.28	-4.6	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.944	0.050	50.00	50.25	-0.5	40.0	PASS	PASS
Benz[a]anthracene	1.729	0.050	50.00	47.76	4.5	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.940	0.050	50.00	39.66	20.7	40.0	PASS	PASS
Chrysene	2.154	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Di-n-octyl phthalate	2.572	0.050	50.00	53.89	-7.8	20.0	PASS	PASS
Benzo(b)fluoranthene	1.553	0.050	50.00	53.67	-7.3	40.0	PASS	PASS
Benzo[k]fluoranthene	1.597	0.050	50.00	54.96	-9.9	40.0	PASS	PASS
Benzo[a]pyrene	1.475	0.050	50.00	53.76	-7.5	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.891	0.050	50.00	51.05	-2.1	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.874	0.050	50.00	60.02	-20.0	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.873	0.050	50.00	51.35	-2.7	40.0	PASS	PASS

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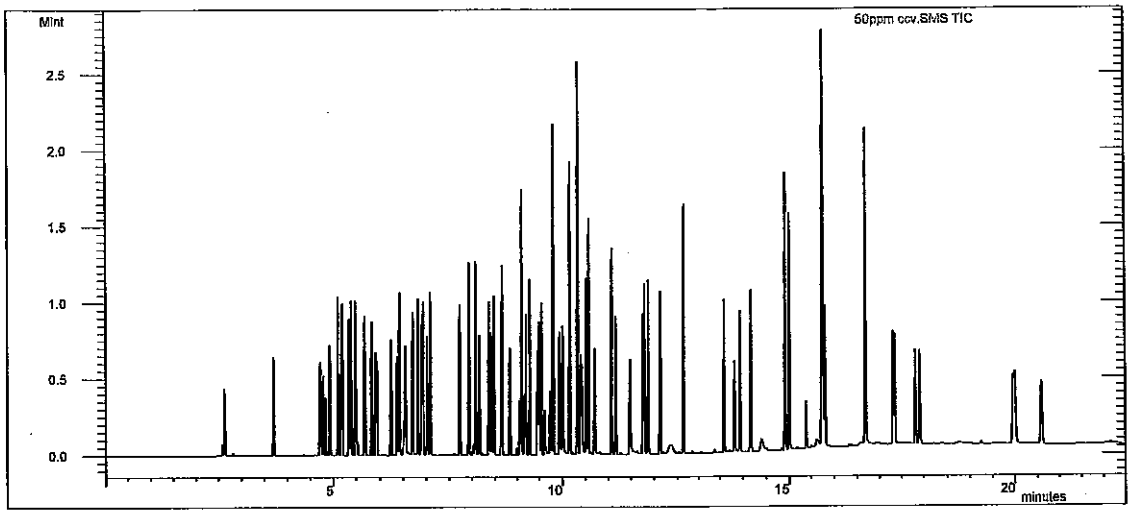
8.13.14

8270C Report

Sample Name:	50ppm ccv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	sv110-0594	**Acquisition Date:**	8/12/2014 11:18:51 AM
Calculation Date:	8/12/2014 11:41:22 AM				



dam 8/12/14

Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.176	432	Identified	188405	40.000
Naphthalene-d8 (I.S)	6.899	611	Identified	611698	40.000
Acenaphthene-d10 (I.S)	9.499	883	Identified	280692	40.000
Phenanthrene-d10	11.749	1118	Identified	561826	40.000
Chrysene-d12 I.S	15.768	1539	Identified	568404	40.000
Perylene-d12 I.S	17.918	1757	Identified	718160	40.000
N-nitrosodimethylamine	2.589	163	Identified	712979	49.161
Pyridine	2.634	168	Identified	2.282E6	53.156
2-Fluorophenol	3.703	279	Identified	245076	45.353
Phenol-d5	4.708	384	Identified	253092	49.226
Phenol	4.724	386	Identified	264852	45.790
Aniline	4.777	391	Identified	818207	42.438
Bis(2-chloroethyl)ether	4.830	396	Identified	435531	45.811
2-Chlorophenol	4.921	406	Identified	273573	48.553
1,3-Dichlorobenzene	5.106	425	Identified	334683	47.094
1,4-Dichlorobenzene	5.199	435	Identified	344158	51.223
Benzyl alcohol	5.344	450	Identified	266246	50.471
1,2-Dichlorobenzene	5.394	455	Identified	328241	49.528
2-Methylphenol	5.483	464	Identified	229519	49.937
Bis(2-chloroisopropyl)ether	5.500	466	Identified	272797	41.210
3+4-Methylphenol	5.687	485	Identified	250514	43.283
N-Nitrosodi-n-propylamine	5.676	484	Identified	803243	48.175
Hexachloroethane	5.832	500	Identified	1.127E6	51.648
Nitrobenzene-d5	5.907	508	Identified	228313	48.449

8-13-14

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.934	511	Identified	239386	49.417
Isophorone	6.237	542	Identified	475645	53.125
2-Nitrophenol	6.367	556	Identified	240489	50.676
2,4-Dimethylphenol	6.415	561	Identified	260213	46.622
Benzoic acid	6.524	572	Identified	2.042E6	60.236
Bis(2-chloroethoxy)methane	6.541	574	Identified	291701	52.689
2,4-Dichlorophenol	6.702	591	Identified	263175	48.696
1,2,4-Trichlorobenzene	6.816	603	Identified	236947	47.354
Naphthalene	6.931	615	Identified	644913	50.800
4-Chloroaniline	7.018	624	Identified	299918	50.604
Hexachlorobutadiene	7.090	631	Identified	463682	45.577
4-Chloro-3-methylphenol	7.733	699	Identified	305394	47.649
2-Methylnaphthalene	7.935	720	Failed	176977	45.944
1-Methylnaphthalene	8.082	735	Failed	180839	46.103
Hexachlorocyclopentadiene	8.158	743	Identified	332209	43.314
2,4,6-Trichlorophenol	8.367	765	Failed	116771	46.445
2,4,5-Trichlorophenol	8.422	771	Identified	104797	44.951
2-Fluorobiphenyl	8.481	777	Identified	523154	48.610
2-Chloronaphthalene	8.663	796	Identified	538847	49.077
2-Nitroaniline	8.841	814	Identified	388061	49.585
Dimethyl phthalate	9.097	841	Identified	1.060E6	52.514
2,6-Dinitrotoluene	9.203	852	Identified	245261	50.644
Acenaphthylene	9.287	861	Identified	673683	49.272
3-Nitroaniline	9.464	879	Identified	390359	51.095
Acenaphthene	9.548	888	Identified	440556	49.696
2,4-Dinitrophenol	9.614	895	Identified	937511	62.856
4-Nitrophenol	9.745	908	Identified	72757	53.581
Dibenzofuran	9.806	915	Identified	275986	42.813
2,4-Dinitrotoluene	9.808	915	Identified	115570	44.618
Diethyl phthalate	10.155	951	Identified	900704	51.137
4-Chlorophenyl phenyl ether	10.325	969	Identified	258128	44.095
Fluorene	10.325	969	Identified	881147	48.259
4-Nitroaniline	10.392	976	Identified	699042	51.543
4,6-Dinitro-2-methylphenol	10.424	979	Identified	1.088E6	62.689
N-Nitrosodiphenylamine	10.516	989	Identified	468317	50.069
Azobenzene	10.567	994	Identified	634204	48.131
2,4,6-Tribromophenol	10.700	1008	Identified	1.147E6	49.308
4-Bromophenyl phenyl ether	11.067	1047	Identified	342444	47.747
Hexachlorobenzene	11.155	1056	Identified	353987	45.559
Pentachlorophenol	11.470	1089	Identified	1.092E6	54.667
Phenanthrene	11.784	1122	Identified	658468	48.752
Anthracene	11.860	1130	Identified	681137	49.827
Carbazole	12.126	1158	Identified	623745	46.817
Di-n-butyl phthalate	12.630	1211	Identified	1.404E6	49.684
Fluoranthene	13.591	1313	Identified	621393	47.506
Benzidine	13.825	1337	Identified	383515	48.268
Pyrene	13.937	1349	Identified	602546	50.724
4-Terphenyl-d14	14.171	1374	Identified	782419	46.070
Butyl benzyl phthalate	14.912	1451	Identified	704576	52.281
3,3'-Dichlorobenzidine	15.739	1536	Identified	1.381E6	50.254

Operator: David Melius Inj. Notes: sv110-0594 50ppm ccv.SMS

8/12/2014 11:42

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.753	1537	Identified	1.229E6	47.757
Bis(2-ethylhexyl)phthalate	15.752	1537	Identified	667603	39.663
Chrysene	15.807	1543	Identified	1.530E6	51.691
Di-n-octyl phthalate	16.683	1632	Identified	1.827E6	53.890
Benzo(b)fluoranthene	17.307	1695	Identified	1.395E6	53.672
Benzo[k]fluoranthene	17.345	1699	Identified	1.434E6	54.959
Benzo[a]pyrene	17.823	1747	Identified	1.324E6	53.765
Indeno[1,2,3-cd]pyrene	19.964	1964	Identified	799713	51.050
Dibenz[a,h]anthracene	20.001	1968	Failed	784831	60.018
Benzo[g,h,i]perylene	20.592	2028	Identified	783538	51.349

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Revision Log

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8/12/2014 11:41 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

rian Star Workstation - 8400 SampleList Mon Apr 28 10:41:20 2014

mpleList: C:\VarianWS\042514crv.smp

eated: Fri Apr 25 09:05:43 2014
dified: Fri Apr 25 15:09:46 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam 4/28/14

TC 4-28-14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s

reate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514, mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4-28-14

Additional Comments:

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

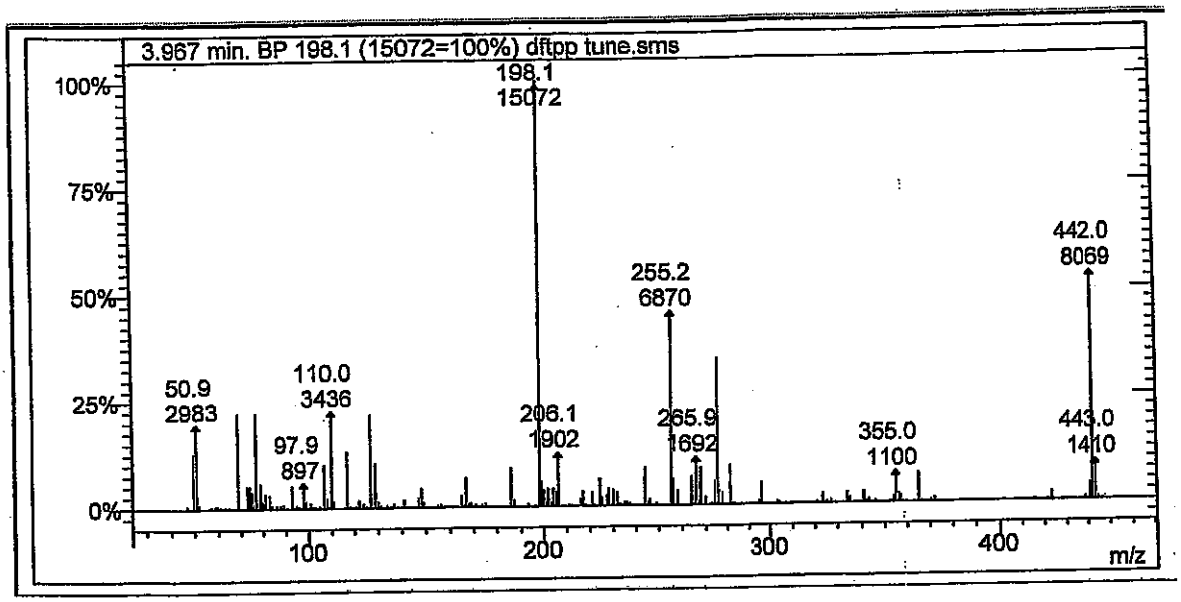
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

√ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

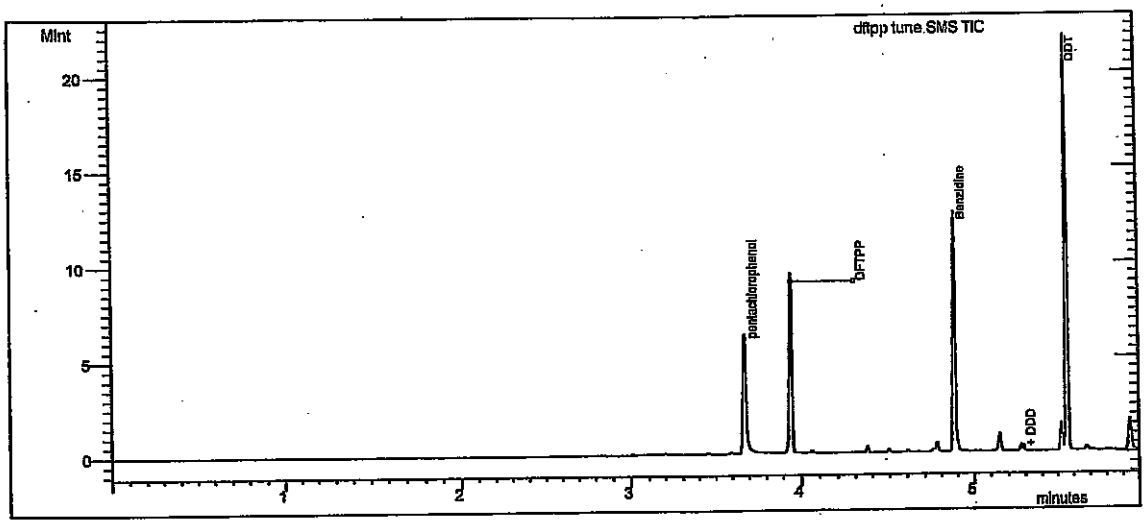
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

TV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

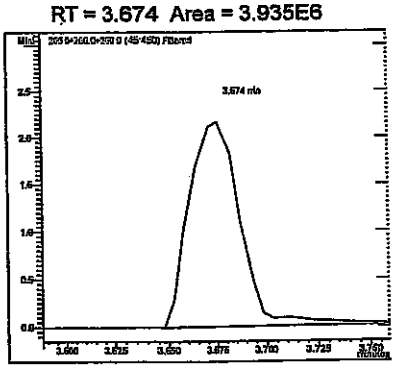
% Degradation of **DDT : =** .509 ✓ dam 4/28/14

TC 4-28-14

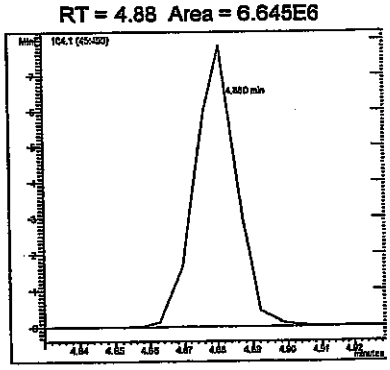
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dm 4/28/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4-28-14

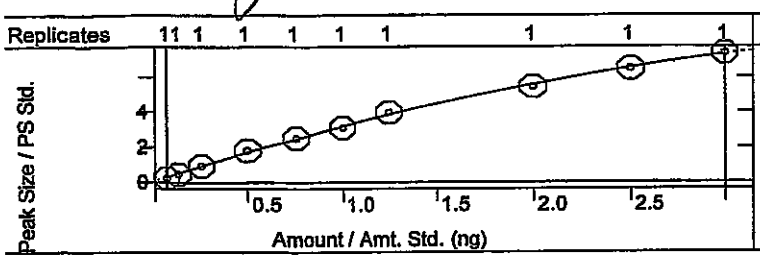
Calibration Curves Report

✓ dan 4/28/14

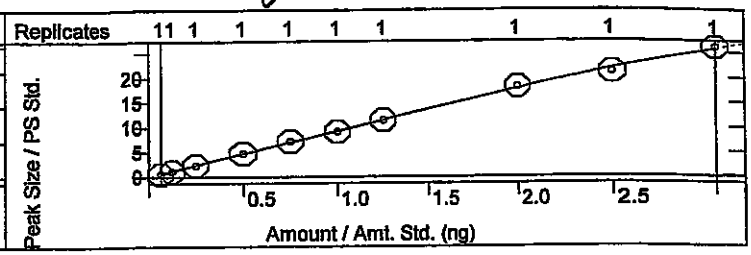
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

✓ 4-28-14

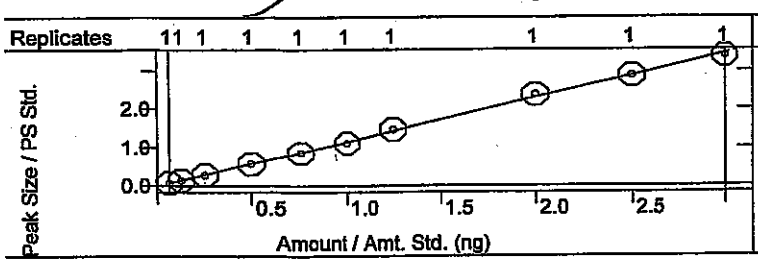
N-nitrosodimethylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
y = -0.3412x2 +3.4265x +0.0884



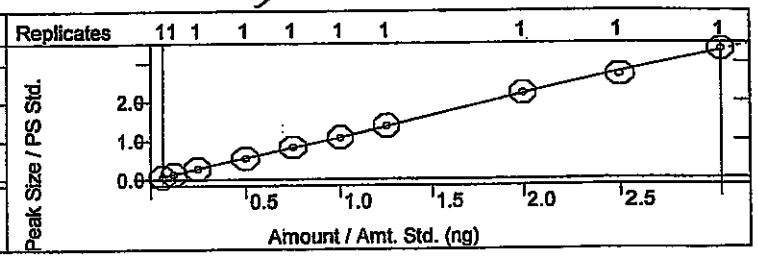
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



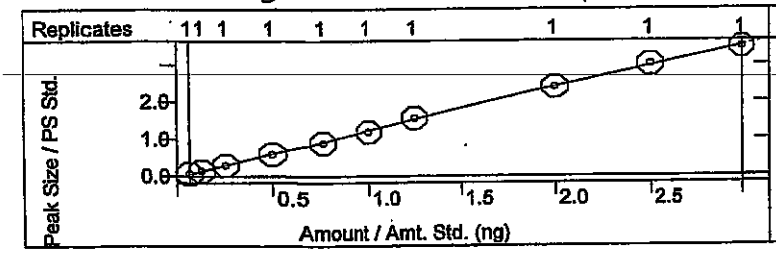
2-Fluorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
y = +1.1454x +0.0021



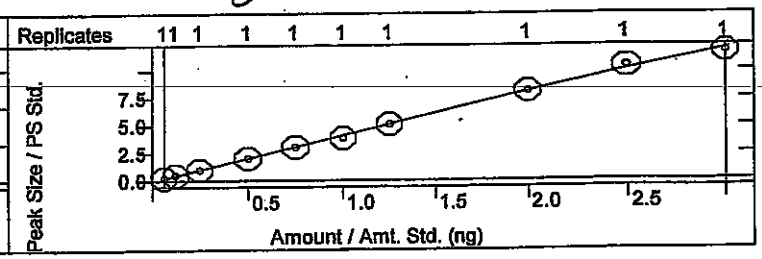
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



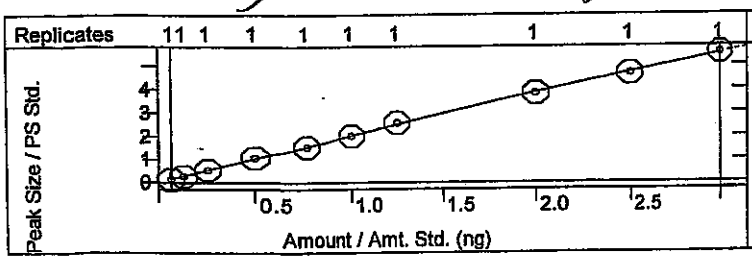
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
y = -0.0409x2 +1.2967x -0.0251



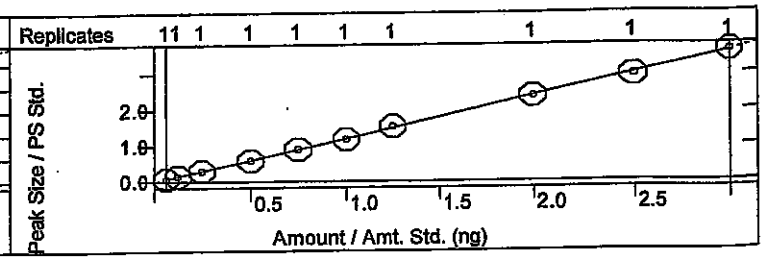
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242



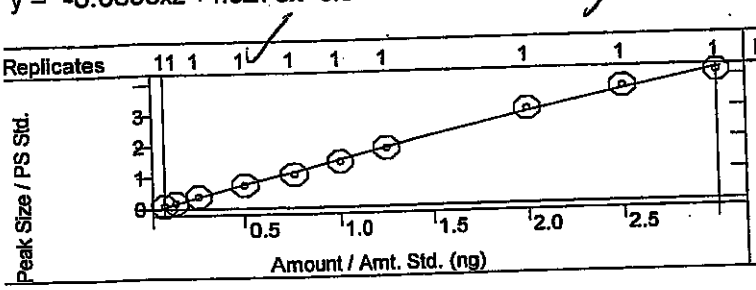
2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021



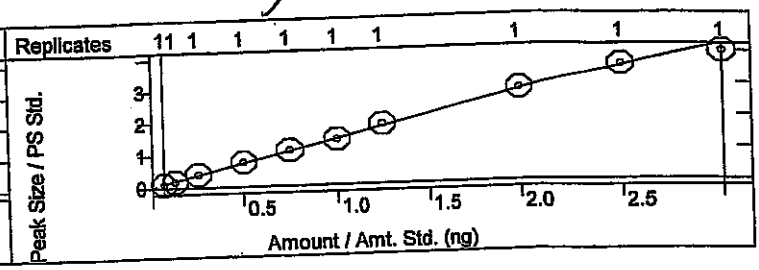
Calibration Curves Report

Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

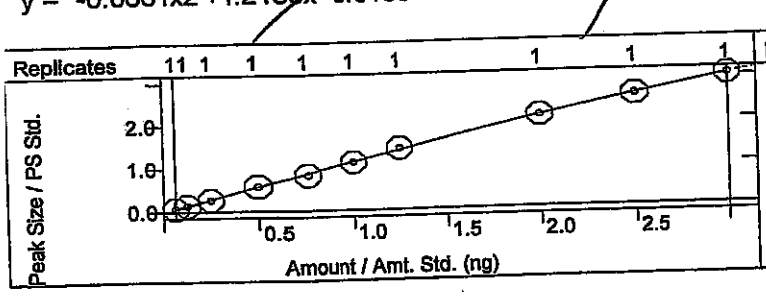
1,3-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
y = -0.0693x2 +1.6278x -0.0442



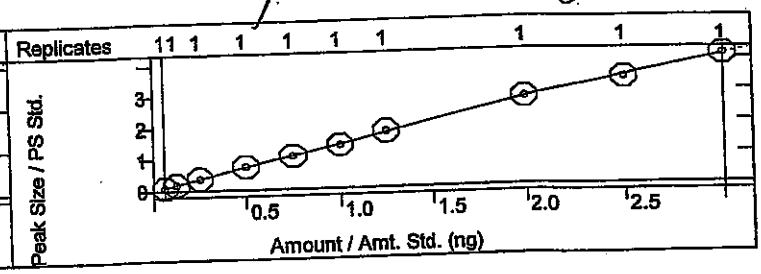
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



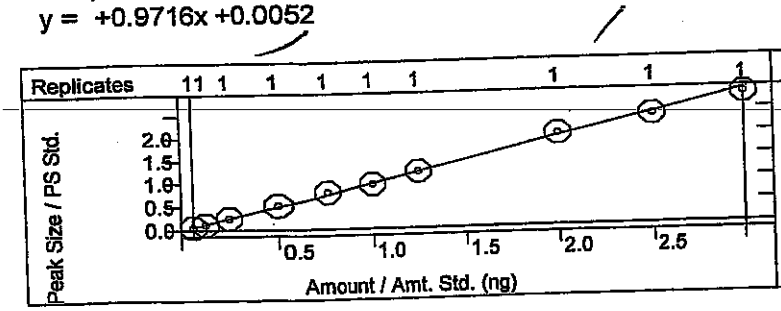
Benzyl alcohol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
y = -0.0661x2 +1.2165x -0.0165



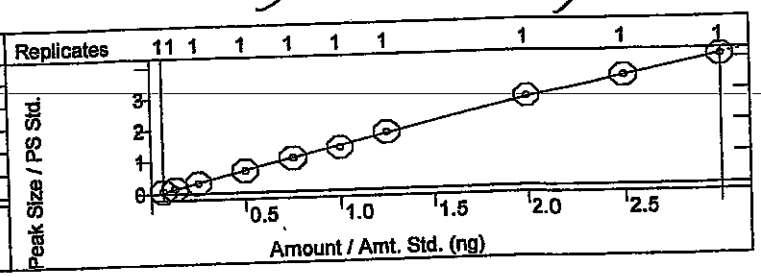
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



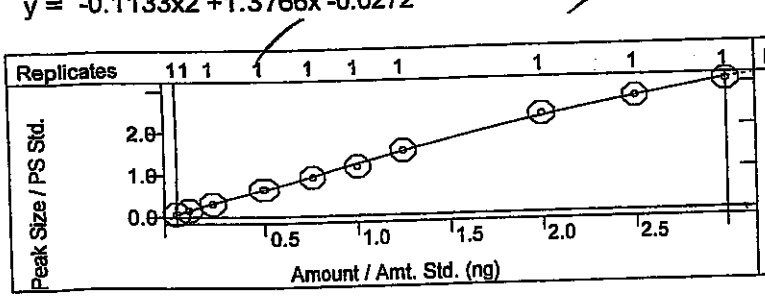
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



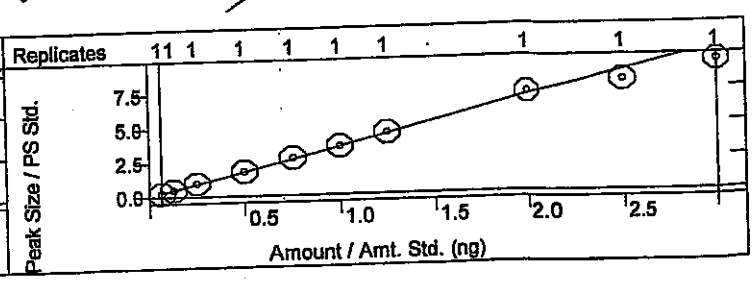
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



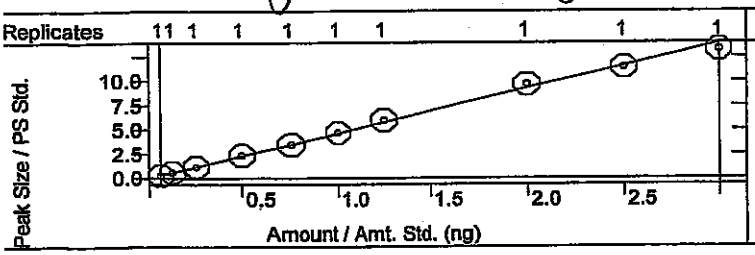
Calibration Curves Report

/ dam 4/28/14

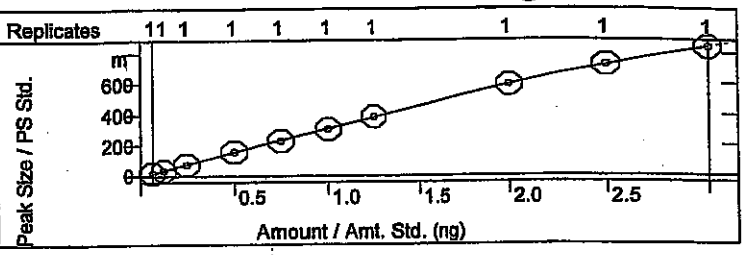
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

5/1/14

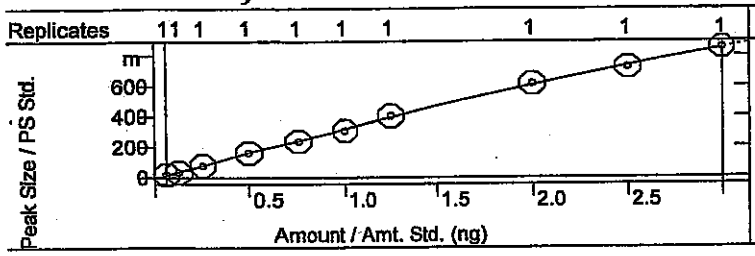
Hexachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
y = +4.6167x +0.0205



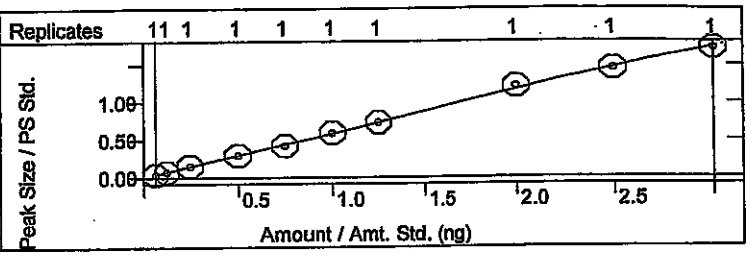
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



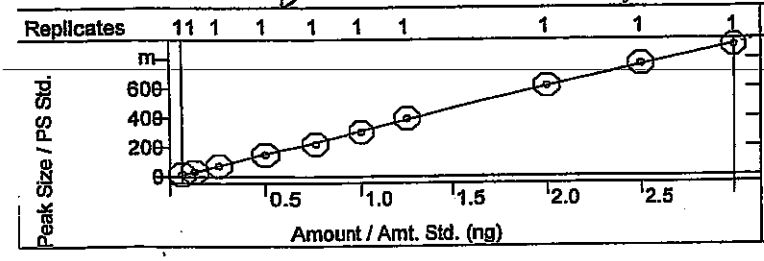
Nitrobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
y = -0.0200x2 +0.3461x -0.0058



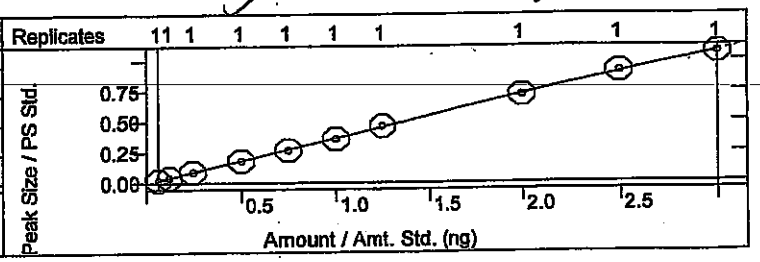
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



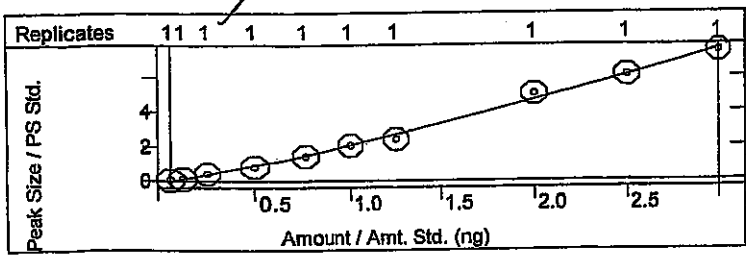
2-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
y = -0.0089x2 +0.3282x -0.0083



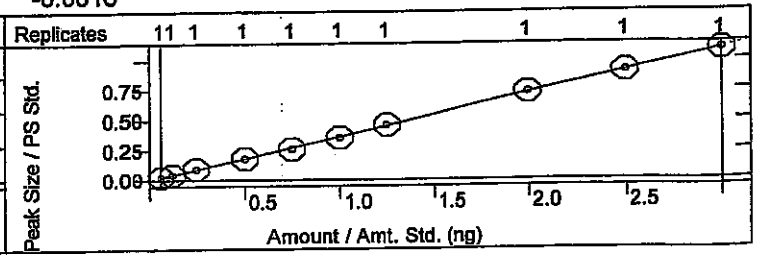
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x -0.0016



J dam 4/28/14

Calibration Curves Report

Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

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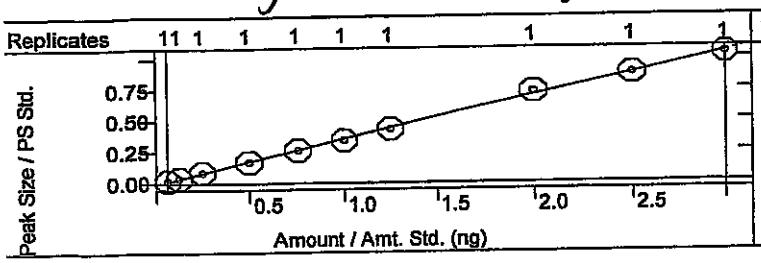
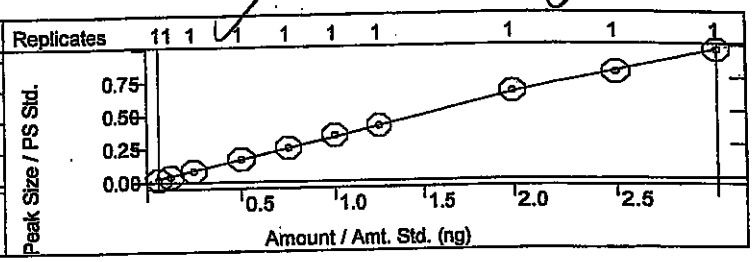
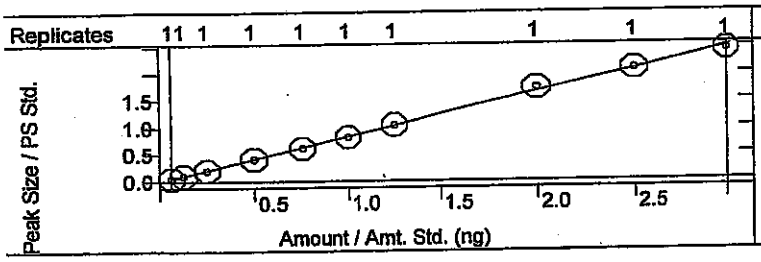
2,4-Dichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
y = -0.0055x2 +0.3668x -0.0082



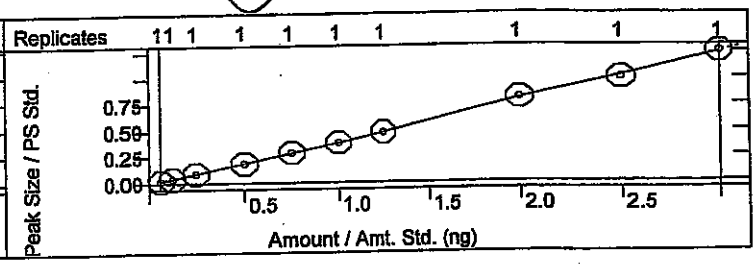
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



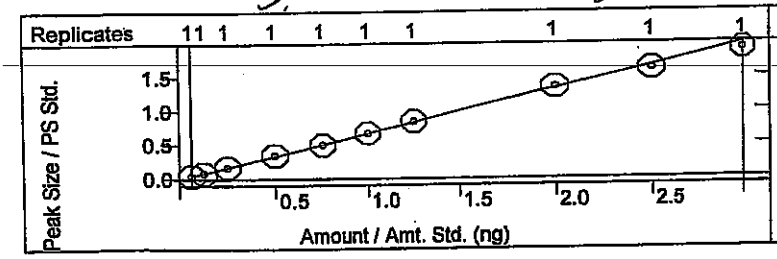
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
y = +0.8263x +0.0048



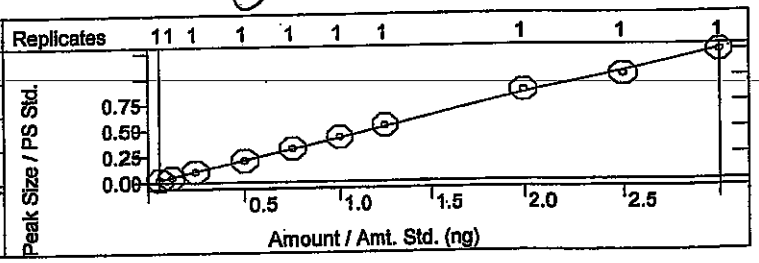
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



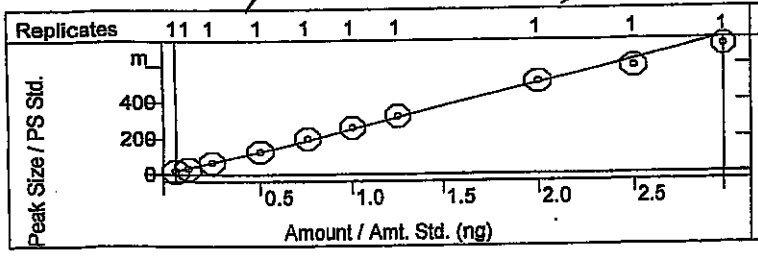
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
y = +0.6599x +0.0061



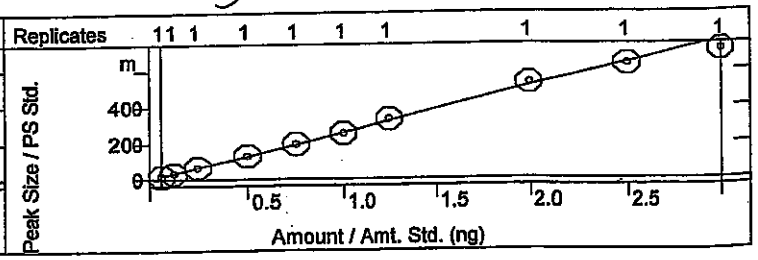
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



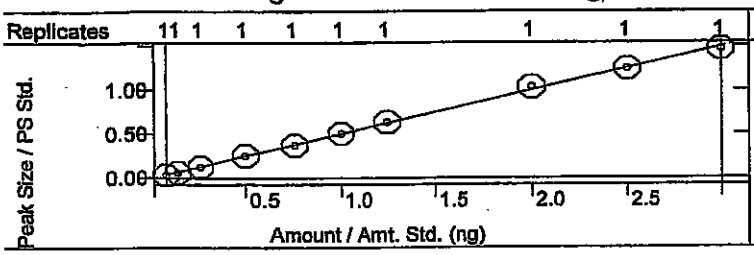
Calibration Curves Report

✓ dam 4/28/14

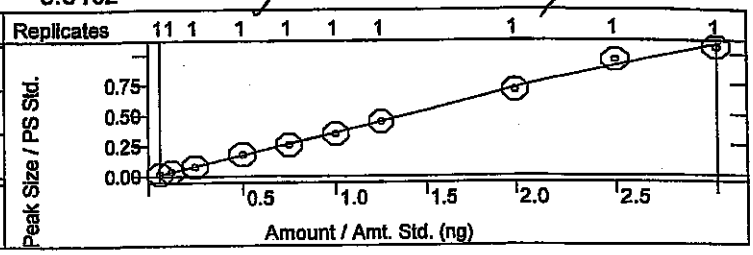
Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

✓ 4-28-14

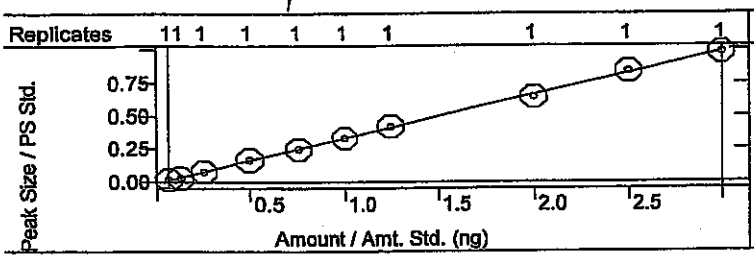
Hexachlorocyclopentadiene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
y = +0.4936x +0.0086



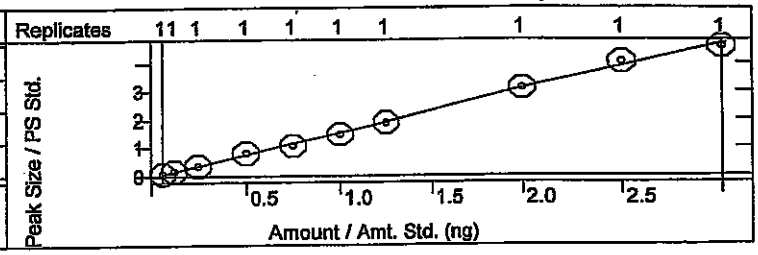
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



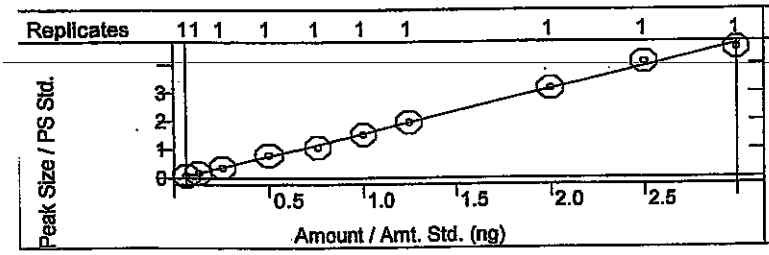
2,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
y = -0.0042x2 +0.3430x -0.0068



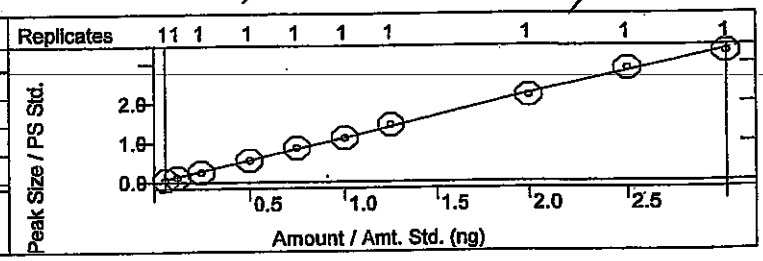
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



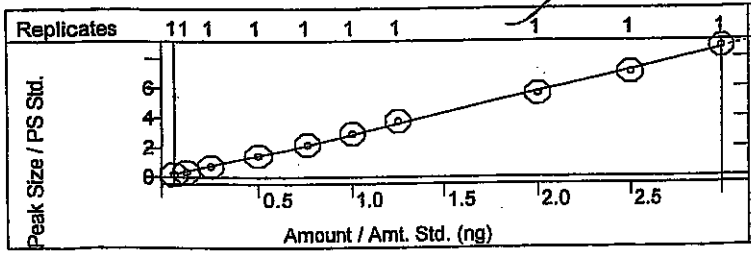
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
y = +1.5769x -0.0150



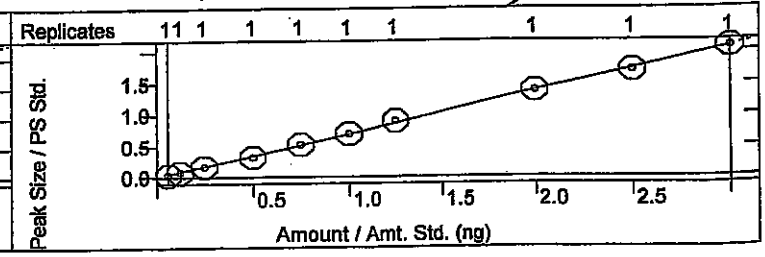
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



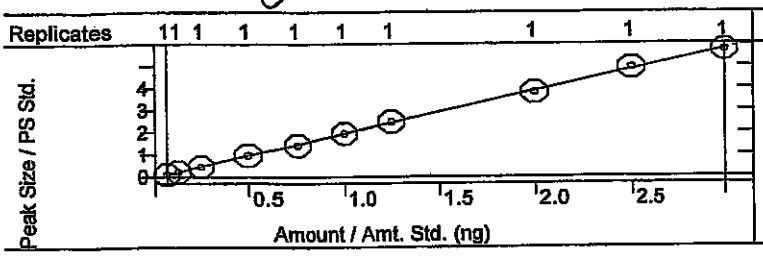
Calibration Curves Report

✓ dm 4/28/14

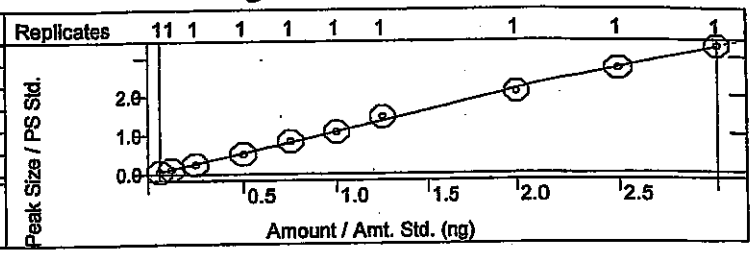
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JD 4.28.14

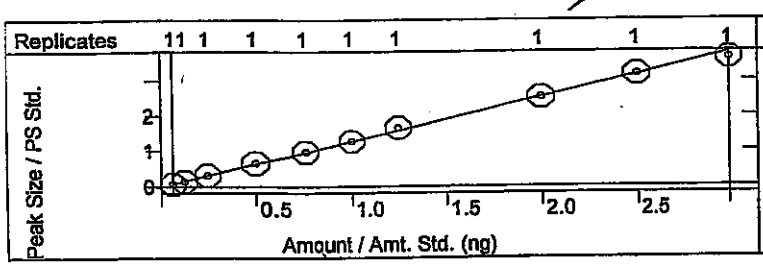
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
y = -0.0224x2 +2.0006x -0.0303



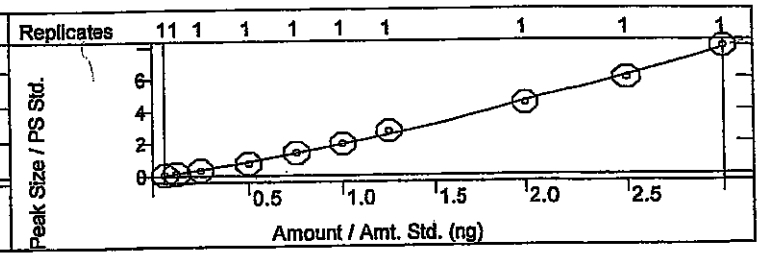
3-Nitroanlline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



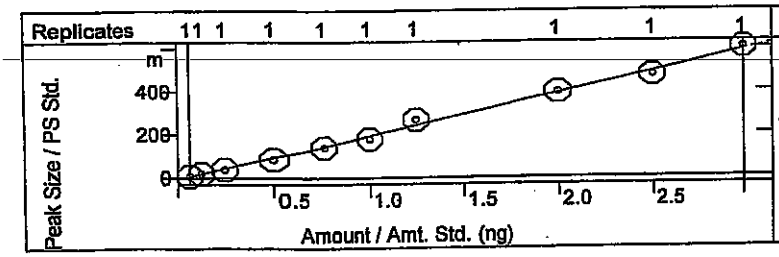
Acenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
y = +1.2637x -5.2278e-4



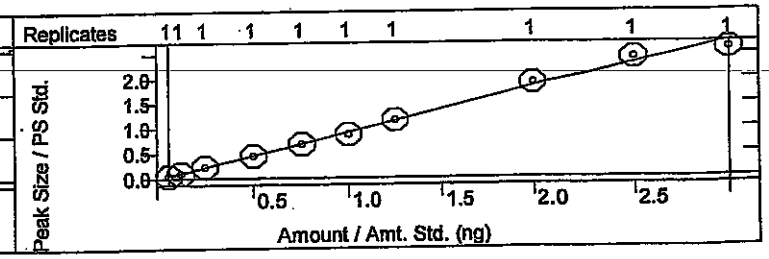
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



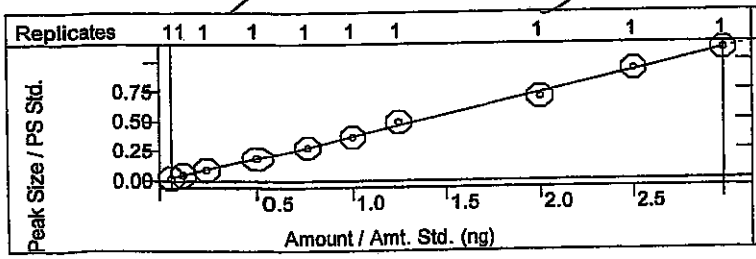
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



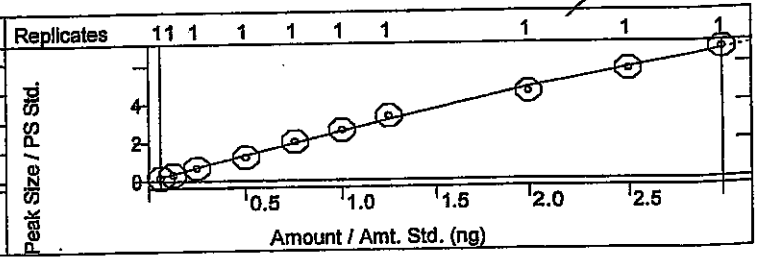
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



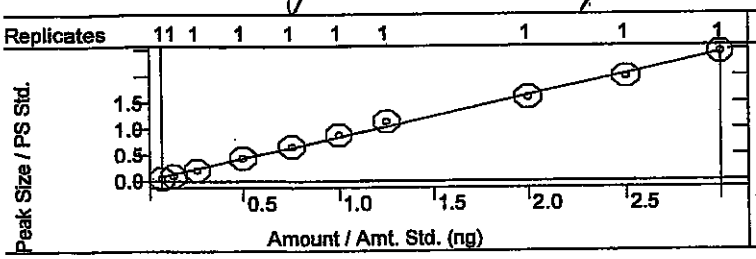
Calibration Curves Report

J dm 4/28/14

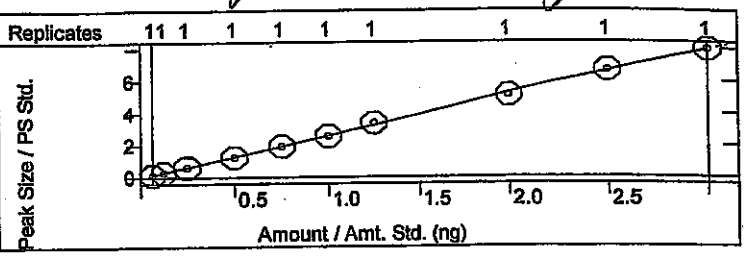
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

SC 4-28-14

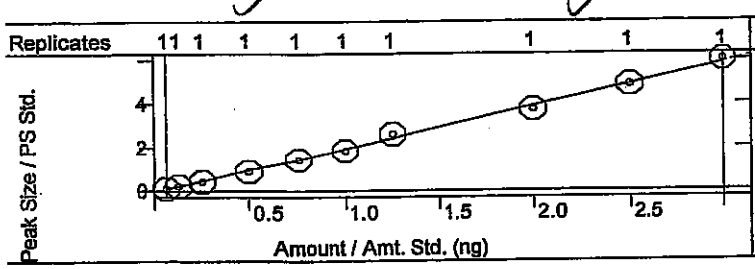
4-Chlorophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
y = +0.8008x +0.0369



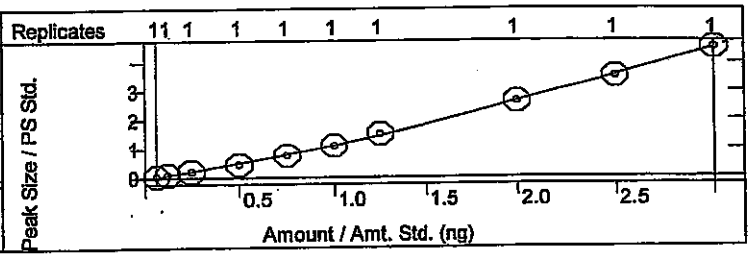
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



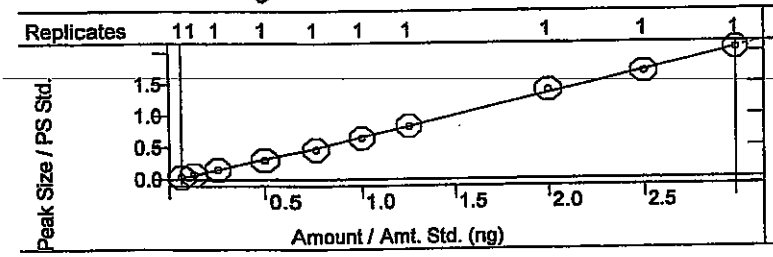
4-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
y = +1.9592x -0.0342



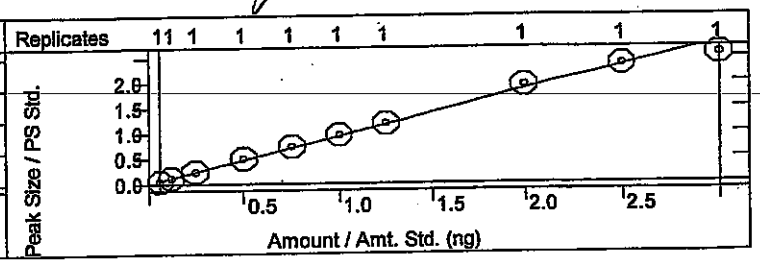
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



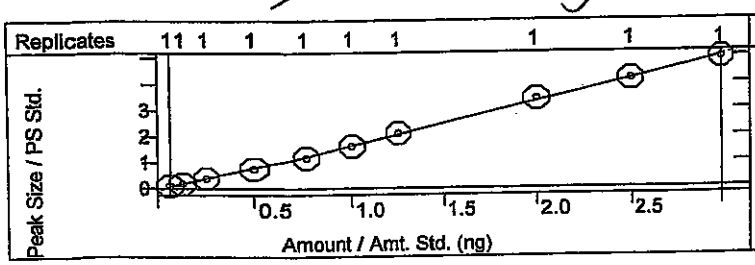
N-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



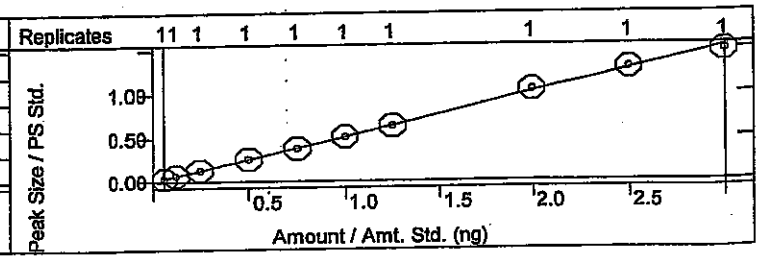
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



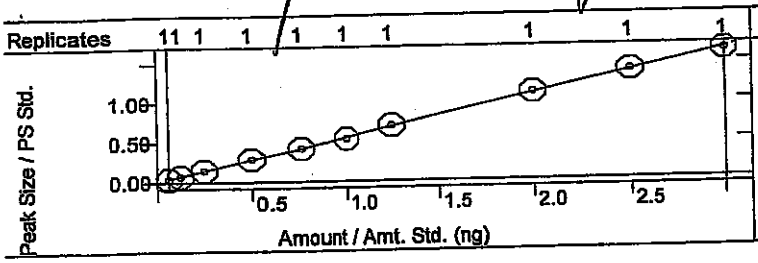
Calibration Curves Report

JDM 4/28/14

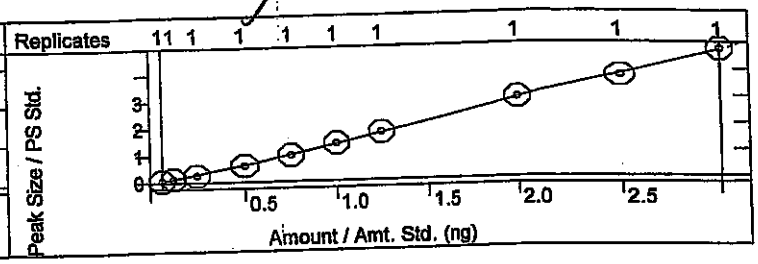
Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

JC 4-28-14

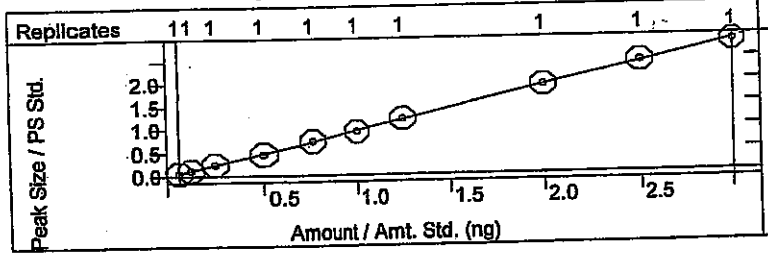
Hexachlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
y = +0.5470x +0.0070



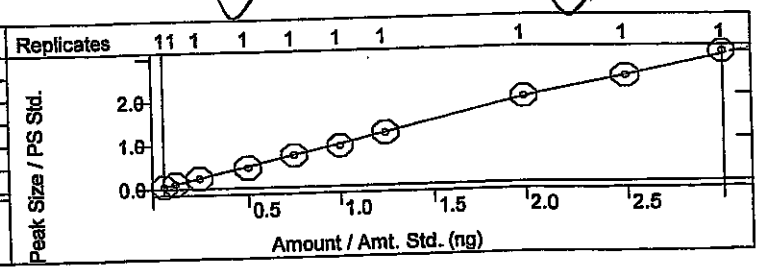
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



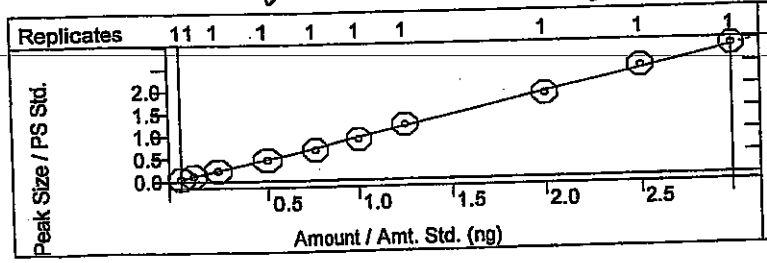
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



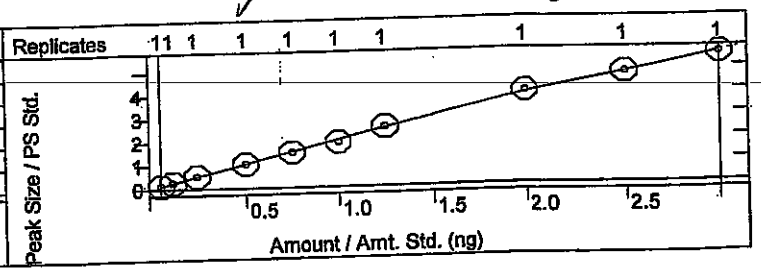
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



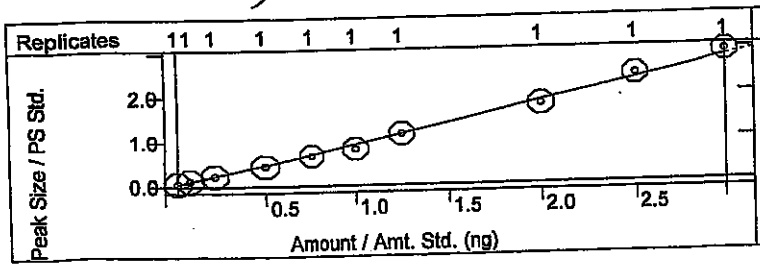
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



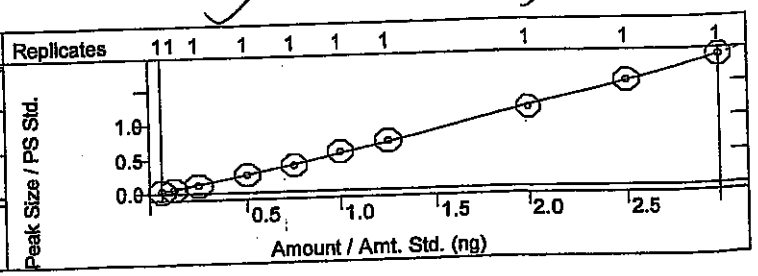
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



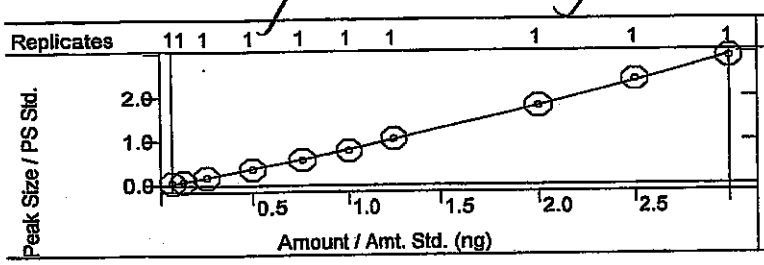
Calibration Curves Report

J dun 4/28/14

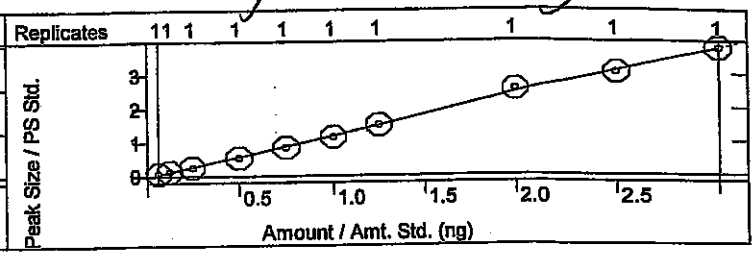
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

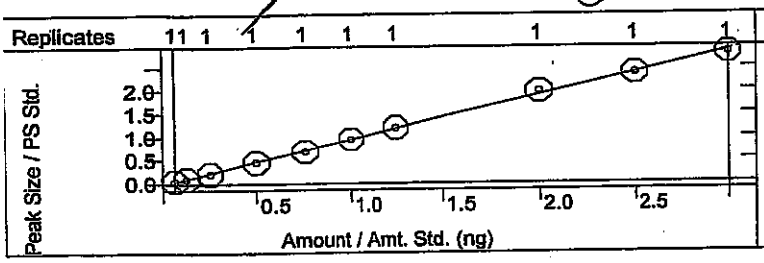
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
y = +0.0803x2 +0.7448x -0.0135



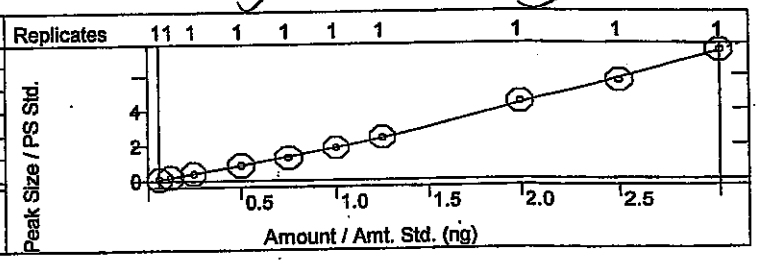
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



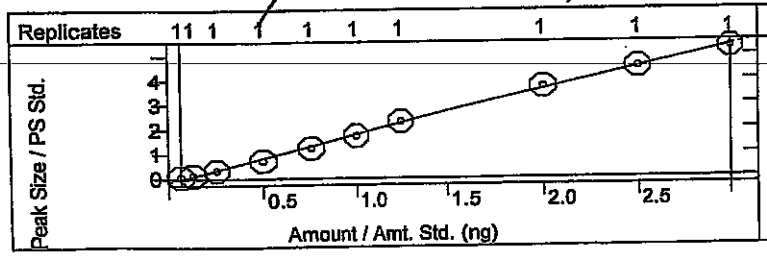
Butyl benzyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
y = +0.9570x -0.0113



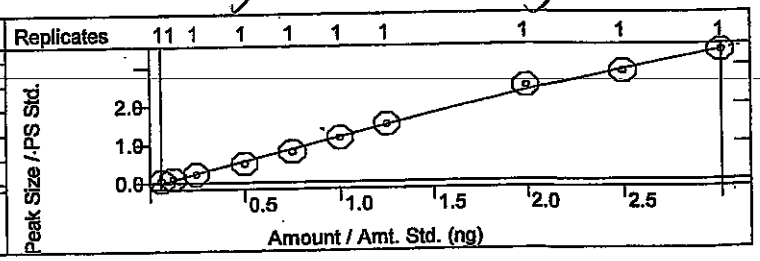
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



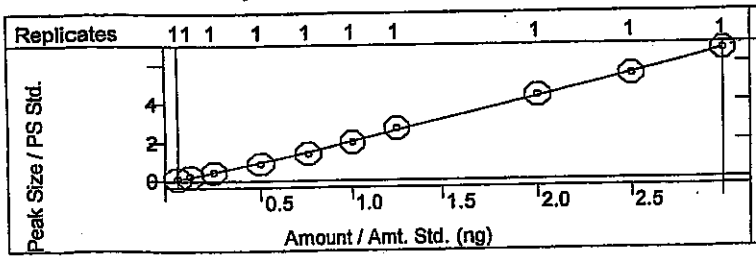
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9866x -0.1374



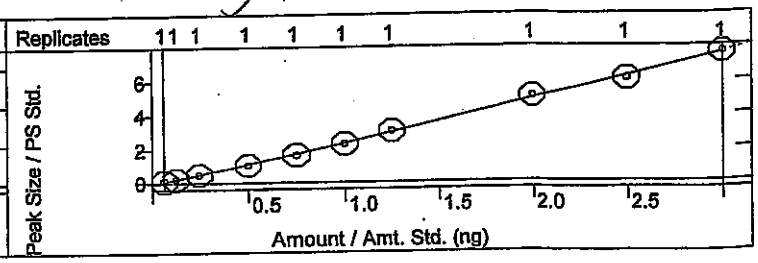
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



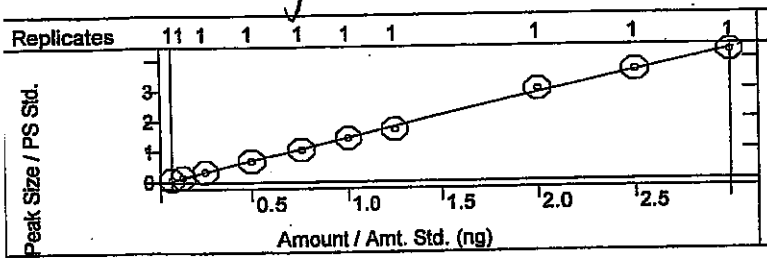
Calibration Curves Report

/ dmh 4/28/14

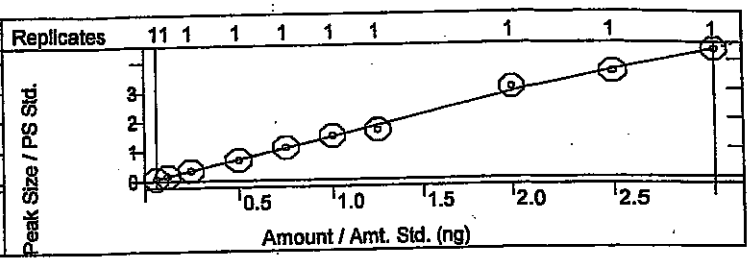
Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

SV 4-28-14

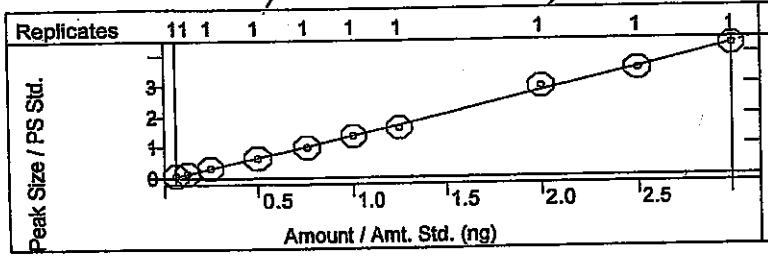
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
y = -0.0187x2 +1.5058x -0.0450



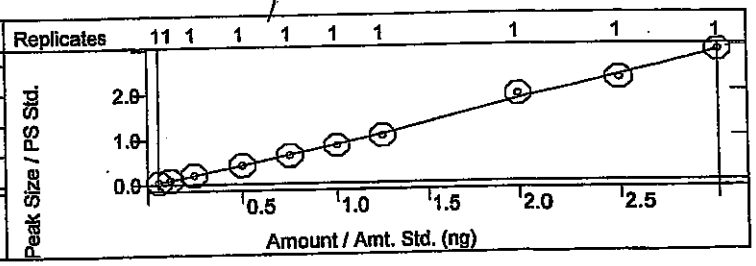
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4798x -0.0270



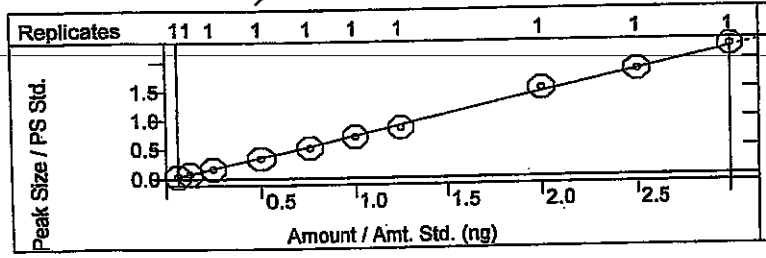
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



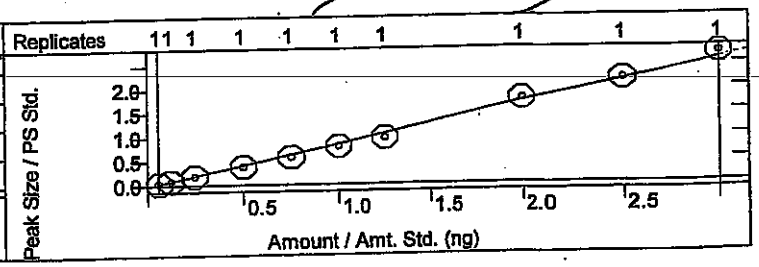
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: ELMO | Cal. Sample Date(s): 4/25/2014 | 4/25/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 14:14 | 14:14

GC Column: FactorFour | ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

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JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS

Compound	RRF9	RRF10
2-Methylnaphthalene	0.237	0.235
1-Methylnaphthalene	0.253	0.237
Hexachlorocyclopentadiene	0.496	0.488
2,4,6-Trichlorophenol	0.382	0.354
2,4,5-Trichlorophenol	0.336	0.327
2-Fluorobiphenyl	1.613	1.527
2-Chloronaphthalene	1.637	1.526
2-Nitroaniline	1.145	1.096
Dimethyl phthalate	2.814	2.908
2,6-Dinitrotoluene	0.682	0.692
Acenaphthylene	1.966	1.913
3-Nitroaniline	1.084	1.093
Acenaphthene	1.273	1.215

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS

Compound	RRF9	RRF10
Hexachlorobenzene	0.554	0.544
Pentachlorophenol	1.518	1.593
Phenanthrene	0.972	0.953
Anthracene	0.975	1.000
Carbazole	0.979	0.962
Di-n-butyl phthalate	1.906	1.853
Fluoranthene	0.975	0.976
Benzidine	0.612	0.627
Pyrene	0.959	0.971
4-Terphenyl-d14	1.228	1.265
Butyl benzyl phthalate	0.951	0.938
3,3'-Dichlorobenzidine	2.262	2.483
Benz[a]anthracene	1.811	1.768

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Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

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	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

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JC
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SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

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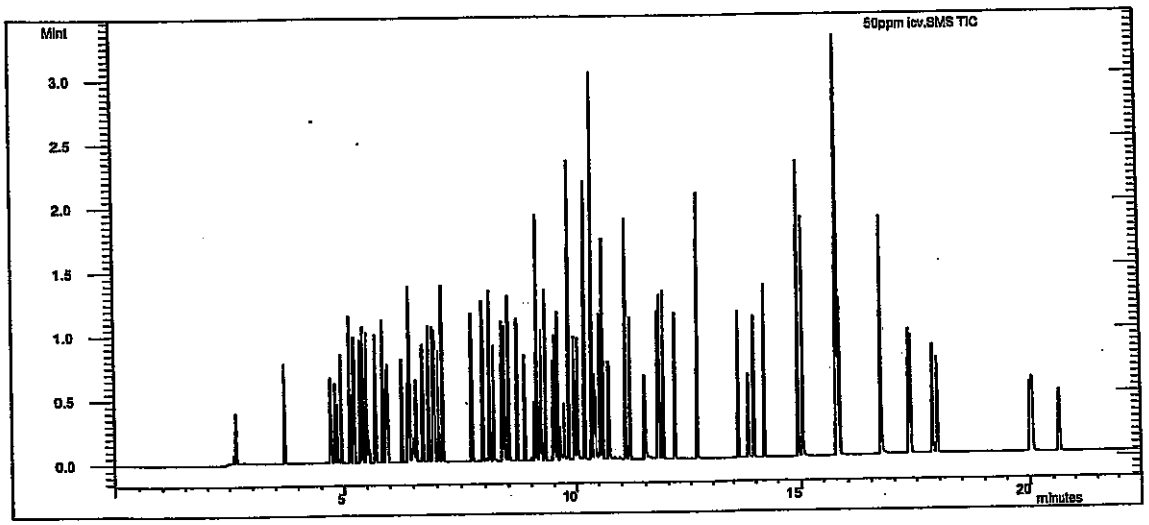
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-26-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius

Inj. Notes: st110-0599

50ppm icv.SMS
4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

8/11/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408347**
Date Reported:

4

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408347

Lab ID: 1408347-001
Client Sample ID: FFOR-CF-0042

Collection Date: 8/7/2014 10:26:00 AM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/12/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**
Lead	7.8 ✓	1.3		mg/Kg	5	14674	8/11/2014 12:09:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Run No.: 20487

Instrument: ICP5

ICP-OES Analysis Summary

Data Imported By: JW

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Results Data Set: 081114 B14683 **Prep Batch ID:** B14683

Calibration

	Standard ID
ST1	ST6010- 14351
ST2	ST6010- 14307
ST3 (CCV)	ST6010- 14334
ST4	ST6010- 14308

	Standard ID
ST5	ST6010- 14309
ST6	ST6010-
ST7 (CCV CAT)	ST6010- JW 8/14/14
ST8	ST6010-

	Standard ID
ICV	ST6010- 14332
ICV CAT	ST6010- JW 8/14/14
ICS ELEM	ST6010- 14335
ICS	ST6010- 14336

Internal Standard

Standard ID: ST6010- 14329

2% Nitric Acid

Reagent ID: 1393

LCS/MS/MSD

☐ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010- 14318	Custom Spike 1101	100µL	10mL
2	ST6010- 14139	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02 Spike Volume: 100µL Wt DI (g): 0.1015 Rm Temp (°C): 21.8 Analyst: JW

Pipette No: P30 Spike Volume: 500µL Wt DI (g): 0.5049 Rm Temp (°C): 21.8 Analyst: JW

Pipette No: P35 Spike Volume: 1mL Wt DI (g): 1.0064 Rm Temp (°C): 21.8 Analyst: JW

Pipette No: _____ Spike Volume: _____ Wt DI (g): _____ Rm Temp (°C): _____ Analyst: _____

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result	Unit
Se	1408413-0014	0.59155	50	10	5	2.95	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result _____ mg/L

Analyst/Date: JW 8/11/14 Qa'd by/Date: JW 8/11/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: JW and _____.

Metals_Total Metals_Diss Metals_Soil Metals_TCLP Metals_Wipe 200.7_Diss 200.7_Total 200.7

Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Failed
14	408	PQL CHECK	QC Passed
15	403	ICS ELEM	QC Passed
16	404	ICS	QC Passed
17	301	MB-14674	Analyzed
18	302	LCS-14674	Analyzed
19	303	MB-14683	Analyzed
20	304	LCS-14683	Analyzed
21	305	1408413-001A	Analyzed
22	306	1408413-001A 5X	Analyzed
23	307	1408413-002A	Analyzed
24	308	1408413-002AMS	Analyzed
25	309	1408413-002AMSD	Analyzed
26	12	BLANK	
27	2	CCV	QC Passed
28	1	CCB	QC Passed
29	3	CCV CAT	Analyzed
30	310	1408347-001A	IS Check Failed (A) 4
31	311	1408347-001AMS	Analyzed
32	312	1408347-001AMSD	IS Check Failed (A) 4
33	313	1407395-002A	
34	314	1407395-003A	Samp Limit Failed
35	12	BLANK	Analyzed
36	315	1408347-001A 2X	Analyzed
37	316	1408347-001AMS 2X	Analyzed
38	317	1408347-001AMSD 2X	IS Check Failed (A) 4
39	201	1408347-001APS 2X	IS Check Failed ⊥
40	2	CCV	QC Failed
41	2	CCV	QC Failed Mg ↓, As ↓, Se ↓
42	1	CCB	QC Passed
43	3	CCV CAT	Analyzed
44	318	1408395-003A 5X	Samp Limit Failed
45	319	1408395-003A 50X	Analyzed
46	12	BLANK	Analyzed
47	320	1408347-001A 5X	IS Check Failed (A) 4
48	321	1408347-001AMS 5X	IS Check Failed
49	322	1408347-001AMSD 5X	IS Check Failed
50	323	1408347-001APS 5X	IS Check Failed
51	2	CCV	QC Failed Mn fail ↓
52	1	CCB	QC Passed
53	3	CCV CAT	
54	7	DI RINSE	

Notations by Inorganic analyst. JR 8/11/14

Sample Information Detail Report
Document Name: 081114 B14683

File Description
Hall Design

Parameters Common to All Samples

Batch ID	081114 B14683
Analyst Name	JORGE
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14674	MBLK
2	302	LCS-14674	LCS
3	303	MB-14683	MBLK
4	304	LCS-14683	LCS
5	305	1408413-001A	SAMP
6	306	1408413-001A 5X	SAMP
7	307	1408413-002A	SAMP
8	308	1408413-002AMS	MS
9	309	1408413-002AMSD	MSD
10	12	BLANK	
11	310	1408347-001A	SAMP
12	311	1408347-001AMS	MS
13	312	1408347-001AMSD	MSD
14	313	1408395-002A	SAMP
15	314	1408395-003A	SAMP
16	12	BLANK	
17	315	1408347-001A 2X	SAMP
18	316	1408347-001AMS 2X	MS
19	317	1408347-001AMSD 2X	MSD
20	318	1408395-003A 5X	SAMP
21	319	1408395-003A 50X	SAMP
22	320	1408347-001A 5X	SAMP
23	321	1408347-001AMS 5X	MS
24	322	1408347-001AMSD 5X	MSD
25	323	1408347-001APS 5X	PS

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	NAVAJO_TOTAL METALS		
4	NAVAJO_TOTAL METALS	Recovery 1 of 3	
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS		
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10			
11	METALS_SOIL		
12	METALS_SOIL	Recovery 1 of 11	
13	METALS_SOIL	Recovery 1 of 11	
14	METALS_SOIL		
15	METALS_SOIL		
16			
17	METALS_SOIL		
18	METALS_SOIL	Recovery 1 of 17	
19	METALS_SOIL	Recovery 1 of 17	
20	METALS_SOIL		
21	METALS_SOIL		
22	METALS_SOIL		
23	METALS_SOIL	Recovery 1 of 22	
24	METALS_SOIL	Recovery 1 of 22	
25	METALS_SOIL	Recovery 1 of 22	

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.

1
2
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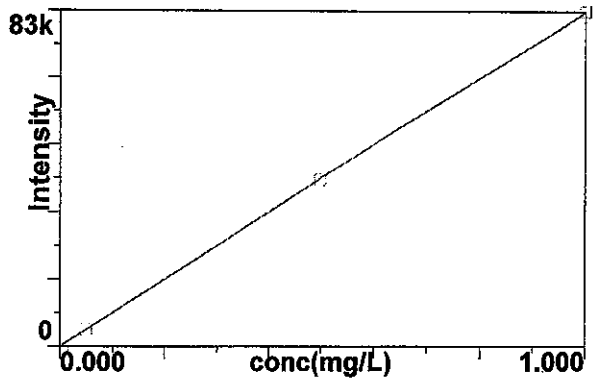
24
25

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

Ag 328.068



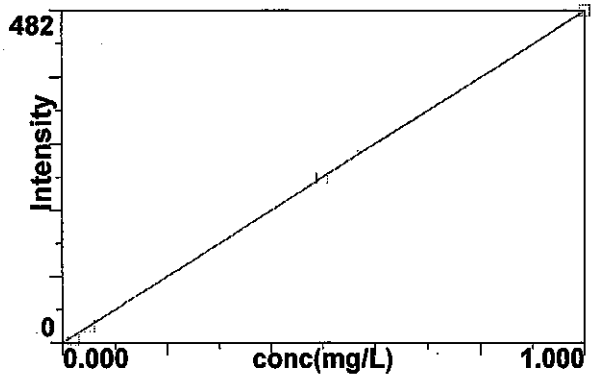
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

1

Al 396.153

2

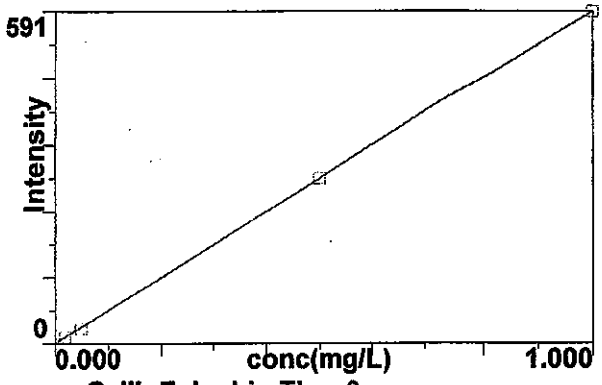
As 188.979



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999964

3

As 193.696



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

4

B 249.772

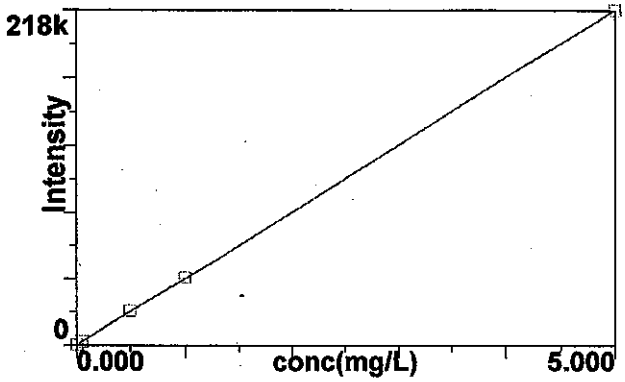
5

B 249.677

6

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

7

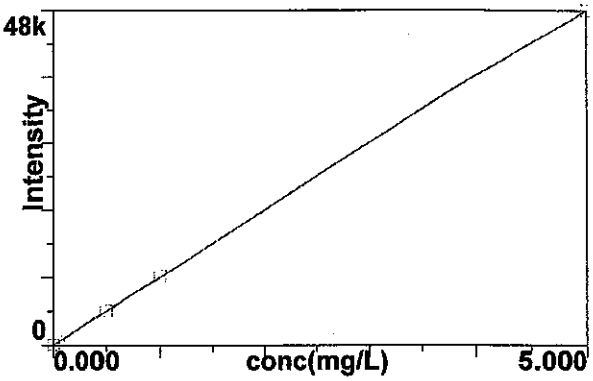
Be 313.107

8

Ca 317.933

9

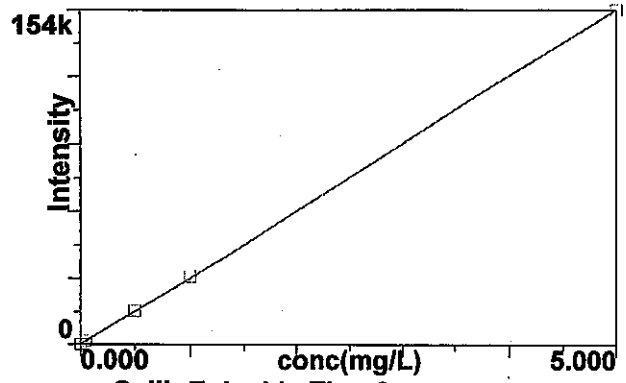
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999988

10

Cd 226.502



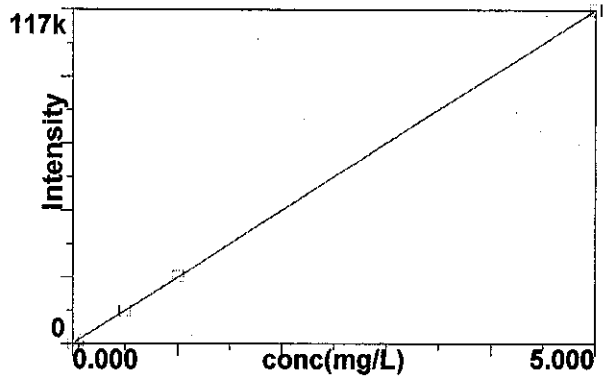
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999988

11

Co 228.616

12

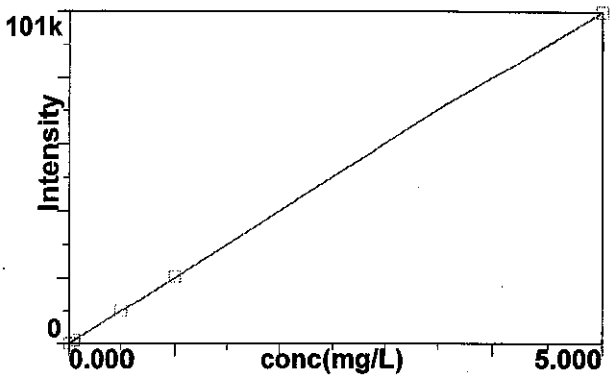
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999994

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999993

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

Mg 285.213

18

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

Mn 257.610

19

Mo 202.031

20

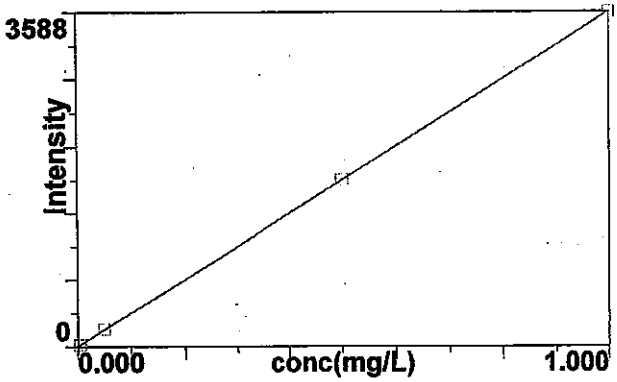
Na 589.592

21

Ni 231.604

22

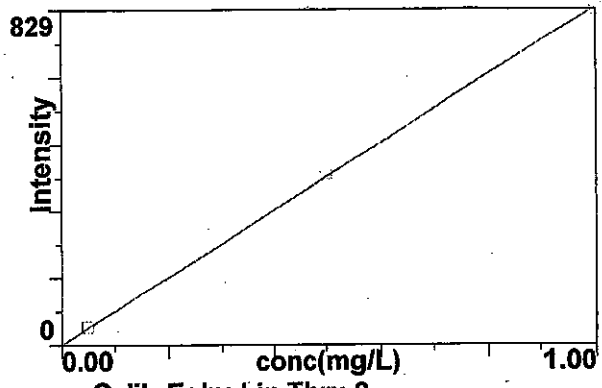
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999999

23

Pb 217.000



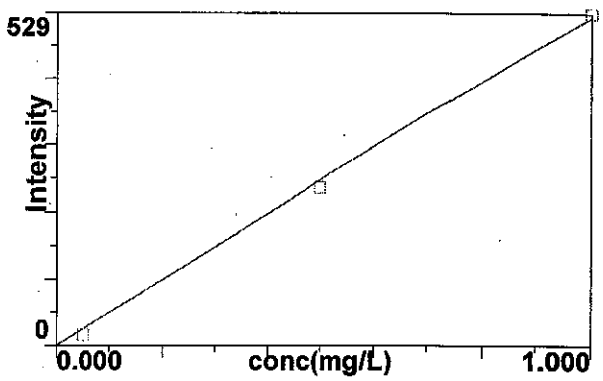
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999940

24

Sb 206.836

25

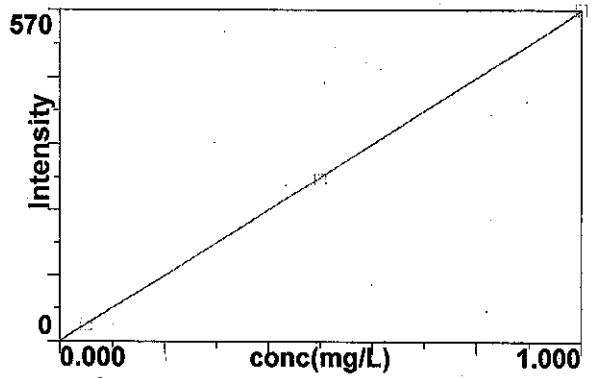
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999622

26

Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

27

Si 212.412

28

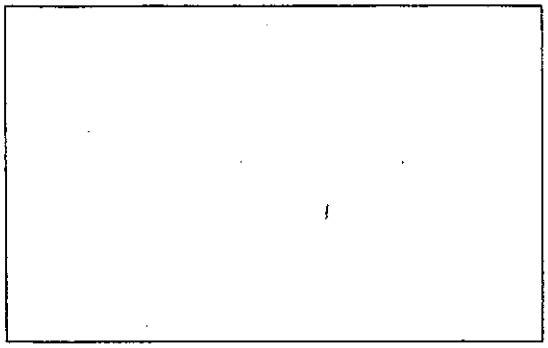
Sn 189.927

29

Ti 334.940

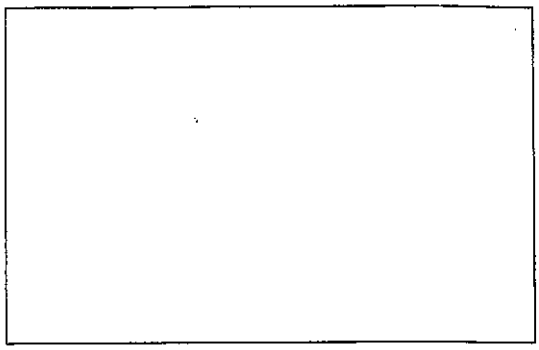
30

Tl 190.801



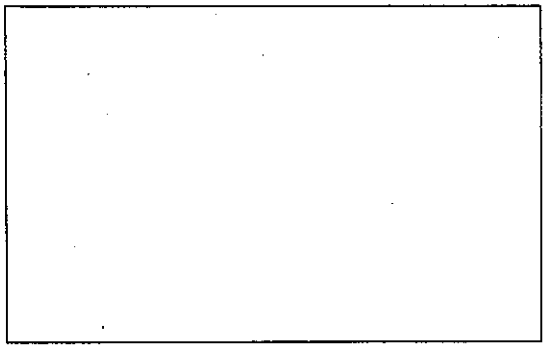
31

U 385.958



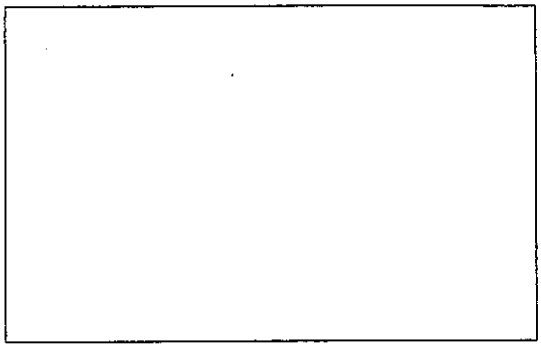
32

V 292.402



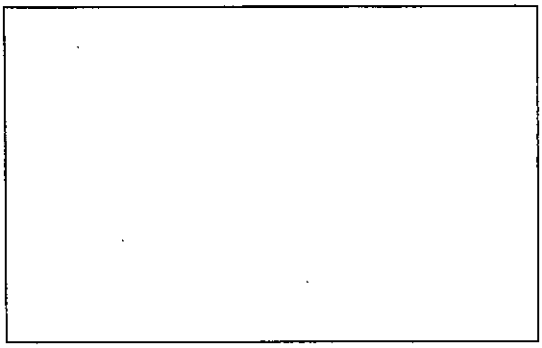
33

Zn 206.200



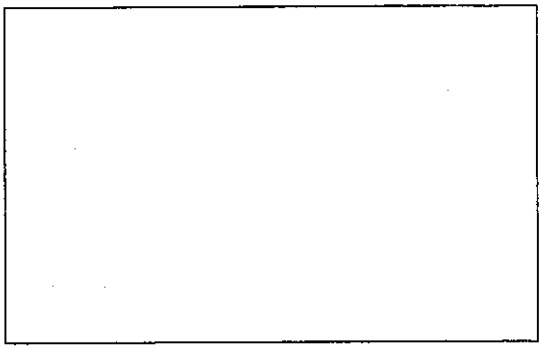
36

Sr 421.552



37

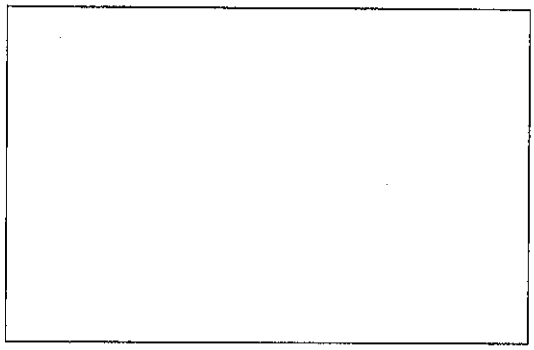
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

U 424.167



39

Analysis Begun

Start Time: 8/11/2014 10:48:06 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ISIS 080714 6010SOIL
IEC File:
Method Description: Hall Metals Full List
Method Last Saved: 8/7/2014 2:49:23 PM
MSF File: All Metals 6-29-04.msf

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/11/2014 10:48:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	397252.0	1828.47	0.46%	100.00	%
Ag 328.068†	49.6	19.55	39.39%	[0.00]	mg/L
As 188.979†	12.4	1.94	15.67%	[0.00]	mg/L
As 193.696†	-6.1	4.32	70.82%	[0.00]	mg/L
Ba 233.527†	3.6	11.25	313.00%	[0.00]	mg/L
Cd 228.802†	-19.6	2.14	10.91%	[0.00]	mg/L
Cd 226.502†	43.1	0.29	0.68%	[0.00]	mg/L
Cr 267.716†	-5.7	5.51	95.90%	[0.00]	mg/L
Cr 205.560†	-33.9	15.91	46.97%	[0.00]	mg/L
Pb 220.353†	-29.3	2.73	9.32%	[0.00]	mg/L
Pb 217.000†	5.0	8.52	170.34%	[0.00]	mg/L
Se 203.985†	5.4	2.44	45.56%	[0.00]	mg/L
Se 196.026†	-19.3	2.82	14.67%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/11/2014 10:49:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	397754.3	2129.57	0.54%	100.13	%
Ag 328.068†	430.4	30.86	7.17%	[0.005]	mg/L
As 188.979†	5.1	3.14	61.67%	[0.02]	mg/L

As 193.696†	11.6	1.90	16.35%	[0.02] mg/L
Ba 233.527†	114.0	9.80	8.60%	[0.002] mg/L
Cd 228.802†	23.0	4.33	18.81%	[0.002] mg/L
Cd 226.502†	57.3	4.38	7.64%	[0.002] mg/L
Cr 267.716†	135.5	7.78	5.74%	[0.006] mg/L
Cr 205.560†	127.0	19.49	15.35%	[0.006] mg/L
Pb 220.353†	17.8	3.07	17.24%	[0.005] mg/L

Sequence No.: 3
Sample ID: ST2
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 409
Date Collected: 8/11/2014 10:50:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	396745.3	5601.69	1.41%	99.872	%
Ag 328.068†	4160.7	38.36	0.92%	[0.05]	mg/L
As 188.979†	24.3	2.50	10.27%	[0.050]	mg/L
As 193.696†	26.2	3.53	13.45%	[0.050]	mg/L
Ba 233.527†	2274.1	17.63	0.78%	[0.05]	mg/L
Cd 228.802†	494.4	6.09	1.23%	[0.05]	mg/L
Cd 226.502†	1587.8	5.58	0.35%	[0.05]	mg/L
Cr 267.716†	1222.2	10.69	0.87%	[0.05]	mg/L
Cr 205.560†	1048.6	21.07	2.01%	[0.05]	mg/L
Pb 220.353†	183.1	9.99	5.45%	[0.05]	mg/L
Pb 217.000†	44.3	6.69	15.10%	[0.05]	mg/L
Se 203.985†	16.7	2.11	12.61%	[0.050]	mg/L
Se 196.026†	28.0	5.11	18.26%	[0.050]	mg/L

Sequence No.: 4
Sample ID: ST3
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/11/2014 10:52:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	398821.1	5016.30	1.26%	100.39	%
Ag 328.068†	41077.8	190.33	0.46%	[0.50]	mg/L
As 188.979†	240.2	5.78	2.41%	[0.50]	mg/L
As 193.696†	295.3	2.47	0.84%	[0.50]	mg/L
Ba 233.527†	22205.2	72.26	0.33%	[0.50]	mg/L
Cd 228.802†	4878.1	38.55	0.79%	[0.50]	mg/L
Cd 226.502†	15675.3	41.10	0.26%	[0.50]	mg/L
Cr 267.716†	11904.5	60.67	0.51%	[0.50]	mg/L
Cr 205.560†	10229.3	84.26	0.82%	[0.50]	mg/L
Pb 220.353†	1796.9	6.09	0.34%	[0.50]	mg/L
Pb 217.000†	425.6	2.13	0.50%	[0.50]	mg/L
Se 203.985†	249.8	8.04	3.22%	[0.50]	mg/L
Se 196.026†	281.3	10.18	3.62%	[0.50]	mg/L

Sequence No.: 5
Sample ID: ST4
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 410
Date Collected: 8/11/2014 10:53:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	400911.6	1710.91	0.43%	100.92	%
Ag 328.068†	82938.1	71.91	0.09%	[1.00]	mg/L
As 188.979†	481.5	3.70	0.77%	[1.00]	mg/L
As 193.696†	590.9	3.40	0.58%	[1.00]	mg/L
Ba 233.527†	44489.4	51.06	0.11%	[1.00]	mg/L
Cd 228.802†	9779.7	34.37	0.35%	[1.00]	mg/L
Cd 226.502†	31504.6	34.74	0.11%	[1.00]	mg/L
Cr 267.716†	23859.7	68.11	0.29%	[1.00]	mg/L
Cr 205.560†	20603.1	74.13	0.36%	[1.00]	mg/L
Pb 220.353†	3588.1	7.59	0.21%	[1.00]	mg/L
Pb 217.000†	829.0	7.81	0.94%	[1.00]	mg/L
Se 203.985†	528.7	11.55	2.18%	[1.00]	mg/L
Se 196.026†	569.7	5.91	1.04%	[1.00]	mg/L

Sequence No.: 6
Sample ID: ST5
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 413
Date Collected: 8/11/2014 10:54:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	400320.5	4199.85	1.05%	100.77	%
Ba 233.527†	218023.5	425.82	0.20%	[5.00]	mg/L
Cd 228.802†	47787.6	10.12	0.02%	[5.00]	mg/L
Cd 226.502†	153811.7	525.58	0.34%	[5.00]	mg/L
Cr 267.716†	117427.2	257.84	0.22%	[5.00]	mg/L
Cr 205.560†	101095.0	344.28	0.34%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	82780	0.00000	0.999993	
As 188.979	4	Lin Thru 0	0.0	481.2	0.00000	0.999964	
As 193.696	4	Lin Thru 0	0.0	590.7	0.00000	0.999987	
Ba 233.527	5	Lin Thru 0	0.0	43650	0.00000	0.999991	
Cd 228.802	5	Lin Thru 0	0.0	9568	0.00000	0.999988	
Cd 226.502	5	Lin Thru 0	0.0	30800	0.00000	0.999988	
Cr 267.716	5	Lin Thru 0	0.0	23500	0.00000	0.999994	
Cr 205.560	5	Lin Thru 0	0.0	20240	0.00000	0.999993	
Pb 220.353	4	Lin Thru 0	0.0	3589	0.00000	0.999999	
Pb 217.000	3	Lin Thru 0	0.0	833.5	0.00000	0.999940	
Se 203.985	3	Lin Thru 0	0.0	522.5	0.00000	0.999922	

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Se 196.026 3 Lin Thru 0 0.0 568.3 0.00000 0.999987
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 10:55:35 AM **Plasma On Time: 8/11/2014 8:42:58 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

---

Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 8/11/2014 10:55:35 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

8/11/14

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	407421.1	102.56	%	0.385				0.38%
Ag 328.068†	40814.3	0.49303	mg/L	0.000718	0.49303	mg/L	0.000718	0.15%
QC value within limits for Ag 328.068 Recovery = 98.61%								
As 188.979†	239.0	0.49667	mg/L	0.003641	0.49667	mg/L	0.003641	0.73%
QC value within limits for As 188.979 Recovery = 99.33%								
As 193.696†	297.6	0.50375	mg/L	0.004372	0.50375	mg/L	0.004372	0.87%
Ba 233.527†	22031.9	0.50478	mg/L	0.000915	0.50478	mg/L	0.000915	0.18%
QC value within limits for Ba 233.527 Recovery = 100.96%								
Cd 228.802†	4848.4	0.50673	mg/L	0.001331	0.50673	mg/L	0.001331	0.26%
QC value within limits for Cd 228.802 Recovery = 101.35%								
Cd 226.502†	15500.1	0.50331	mg/L	0.000775	0.50331	mg/L	0.000775	0.15%
Cr 267.716†	11708.8	0.49818	mg/L	0.000532	0.49818	mg/L	0.000532	0.11%
Cr 205.560†	10132.9	0.50074	mg/L	0.000449	0.50074	mg/L	0.000449	0.09%
QC value within limits for Cr 205.560 Recovery = 100.15%								
Pb 220.353†	1810.9	0.50452	mg/L	0.003957	0.50452	mg/L	0.003957	0.78%
QC value within limits for Pb 220.353 Recovery = 100.90%								
Pb 217.000†	419.0	0.50266	mg/L	0.002351	0.50266	mg/L	0.002351	0.47%
Se 203.985†	261.0	0.49944	mg/L	0.020598	0.49944	mg/L	0.020598	4.12%
Se 196.026†	293.1	0.51578	mg/L	0.026481	0.51578	mg/L	0.026481	5.13%
QC value within limits for Se 196.026 Recovery = 103.16%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 10:56:50 AM **Plasma On Time: 8/11/2014 8:42:58 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 8/11/2014 10:56:50 AM**

Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	408858.2	102.92	%	0.418				0.41%
Ag 328.068†	40739.9	0.49213	mg/L	0.001066	0.49213	mg/L	0.001066	0.22%
QC value within limits for Ag 328.068 Recovery = 98.43%								
As 188.979†	238.7	0.49596	mg/L	0.005513	0.49596	mg/L	0.005513	1.11%
QC value within limits for As 188.979 Recovery = 99.19%								
As 193.696†	290.6	0.49188	mg/L	0.006182	0.49188	mg/L	0.006182	1.26%
Ba 233.527†	21976.1	0.50351	mg/L	0.000695	0.50351	mg/L	0.000695	0.14%
QC value within limits for Ba 233.527 Recovery = 100.70%								
Cd 228.802†	4793.1	0.50096	mg/L	0.002257	0.50096	mg/L	0.002257	0.45%
QC value within limits for Cd 228.802 Recovery = 100.19%								
Cd 226.502†	15398.8	0.50002	mg/L	0.001216	0.50002	mg/L	0.001216	0.24%
Cr 267.716†	11683.6	0.49711	mg/L	0.000337	0.49711	mg/L	0.000337	0.07%
Cr 205.560†	10019.7	0.49515	mg/L	0.001637	0.49515	mg/L	0.001637	0.33%
QC value within limits for Cr 205.560 Recovery = 99.03%								
Pb 220.353†	1793.9	0.49978	mg/L	0.000852	0.49978	mg/L	0.000852	0.17%
QC value within limits for Pb 220.353 Recovery = 99.96%								
Pb 217.000†	419.9	0.50377	mg/L	0.003152	0.50377	mg/L	0.003152	0.63%
Se 203.985†	254.3	0.48677	mg/L	0.013399	0.48677	mg/L	0.013399	2.75%
Se 196.026†	285.0	0.50154	mg/L	0.002166	0.50154	mg/L	0.002166	0.43%
QC value within limits for Se 196.026 Recovery = 100.31%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 10:58:13 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 1
Date Collected: 8/11/2014 10:58:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	323.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	406719.6	102.38	%	0.361				0.35%
Ag 328.068†	8.5	0.00010	mg/L	0.000494	0.00010	mg/L	0.000494	479.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-2.7	-0.00567	mg/L	0.004661	-0.00567	mg/L	0.004661	82.13%

QC value within limits for As 188.979 Recovery = Not calculated							
As 193.696†	-0.1	-0.00021 mg/L	0.006615	-0.00021 mg/L	0.006615	>999.9%	
Ba 233.527†	-4.6	-0.00010 mg/L	0.000454	-0.00010 mg/L	0.000454	432.64%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Cd 228.802†	5.1	0.00053 mg/L	0.000450	0.00053 mg/L	0.000450	85.13%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 226.502†	-2.6	-0.00008 mg/L	0.000065	-0.00008 mg/L	0.000065	76.84%	
Cr 267.716†	2.8	0.00012 mg/L	0.000317	0.00012 mg/L	0.000317	269.78%	
Cr 205.560†	6.2	0.00030 mg/L	0.000154	0.00030 mg/L	0.000154	50.78%	
QC value within limits for Cr 205.560 Recovery = Not calculated							
Pb 220.353†	7.1	0.00198 mg/L	0.002028	0.00198 mg/L	0.002028	102.52%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	3.9	0.00463 mg/L	0.006597	0.00463 mg/L	0.006597	142.43%	
Se 203.985†	1.0	0.00188 mg/L	0.010796	0.00188 mg/L	0.010796	575.18%	
Se 196.026†	1.9	0.00342 mg/L	0.001432	0.00342 mg/L	0.001432	41.94%	
QC value within limits for Se 196.026 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/11/2014 10:59:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	409155.0	103.00	%	0.193				0.19%
Ag 328.068†	421.0	0.00509	mg/L	0.000187	0.00509	mg/L	0.000187	3.68%
QC value within limits for Ag 328.068 Recovery = 101.72%								
As 188.979†	4.4	0.00914	mg/L	0.004957	0.00914	mg/L	0.004957	54.23%
QC value less than the lower limit for As 188.979 Recovery = 45.70%								
As 193.696†	8.7	0.01469	mg/L	0.001788	0.01469	mg/L	0.001788	12.17%
Ba 233.527†	106.3	0.00243	mg/L	0.000574	0.00243	mg/L	0.000574	23.58%
QC value within limits for Ba 233.527 Recovery = 121.75%								
Cd 228.802†	23.1	0.00241	mg/L	0.000394	0.00241	mg/L	0.000394	16.32%
QC value within limits for Cd 228.802 Recovery = 120.57%								
Cd 226.502†	54.8	0.00178	mg/L	0.000147	0.00178	mg/L	0.000147	8.29%
Cr 267.716†	139.5	0.00594	mg/L	0.000327	0.00594	mg/L	0.000327	5.51%
Cr 205.560†	123.9	0.00612	mg/L	0.000913	0.00612	mg/L	0.000913	14.91%
QC value within limits for Cr 205.560 Recovery = 102.03%								
Pb 220.353†	26.5	0.00738	mg/L	0.002288	0.00738	mg/L	0.002288	30.98%
QC value within limits for Pb 220.353 Recovery = 147.69%								
Pb 217.000†	5.8	0.00700	mg/L	0.004613	0.00700	mg/L	0.004613	65.93%
Se 203.985†	20.6	0.03933	mg/L	0.009881	0.03933	mg/L	0.009881	25.12%
Se 196.026†	38.1	0.06698	mg/L	0.020934	0.06698	mg/L	0.020934	31.25%
QC value within limits for Se 196.026 Recovery = 133.96%								

QC Failed. Retry.

Sequence No.: 14
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/11/2014 11:00:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	411638.7	103.62	%	1.529				1.48%
Ag 328.068†	424.5	0.00513	mg/L	0.000435	0.00513	mg/L	0.000435	8.47%
QC value within limits for Ag 328.068 Recovery = 102.56%								
As 188.979†	6.7	0.01402	mg/L	0.009843	0.01402	mg/L	0.009843	70.20%
QC value within limits for As 188.979 Recovery = 70.11%								
As 193.696†	9.3	0.01573	mg/L	0.009628	0.01573	mg/L	0.009628	61.19%
Ba 233.527†	101.3	0.00232	mg/L	0.000124	0.00232	mg/L	0.000124	5.34%
QC value within limits for Ba 233.527 Recovery = 116.02%								
Cd 228.802†	18.1	0.00189	mg/L	0.000236	0.00189	mg/L	0.000236	12.47%
QC value within limits for Cd 228.802 Recovery = 94.70%								
Cd 226.502†	54.9	0.00178	mg/L	0.000041	0.00178	mg/L	0.000041	2.30%
Cr 267.716†	139.1	0.00592	mg/L	0.000267	0.00592	mg/L	0.000267	4.51%
Cr 205.560†	123.9	0.00612	mg/L	0.001450	0.00612	mg/L	0.001450	23.67%
QC value within limits for Cr 205.560 Recovery = 102.08%								
Pb 220.353†	19.1	0.00532	mg/L	0.002581	0.00532	mg/L	0.002581	48.49%
QC value within limits for Pb 220.353 Recovery = 106.46%								
Pb 217.000†	3.7	0.00441	mg/L	0.004967	0.00441	mg/L	0.004967	112.75%
Se 203.985†	17.9	0.03427	mg/L	0.003189	0.03427	mg/L	0.003189	9.31%
Se 196.026†	30.6	0.05379	mg/L	0.002937	0.05379	mg/L	0.002937	5.46%
QC value within limits for Se 196.026 Recovery = 107.58%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 11:01:38 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 15
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 403
Date Collected: 8/11/2014 11:01:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	402256.0	101.26	%	0.593				0.59%
Ag 328.068†	41227.1	0.49802	mg/L	0.001156	0.49802	mg/L	0.001156	0.23%
QC value within limits for Ag 328.068 Recovery = 99.60%								
As 188.979†	246.4	0.51201	mg/L	0.000322	0.51201	mg/L	0.000322	0.06%
QC value within limits for As 188.979 Recovery = 102.40%								
As 193.696†	258.3	0.43726	mg/L	0.017457	0.43726	mg/L	0.017457	3.99%
Ba 233.527†	21372.4	0.48967	mg/L	0.000922	0.48967	mg/L	0.000922	0.19%
QC value within limits for Ba 233.527 Recovery = 97.93%								
Cd 228.802†	4973.2	0.51978	mg/L	0.002617	0.51978	mg/L	0.002617	0.50%
QC value within limits for Cd 228.802 Recovery = 103.96%								
Cd 226.502†	15311.8	0.49720	mg/L	0.001618	0.49720	mg/L	0.001618	0.33%
Cr 267.716†	11371.1	0.48382	mg/L	0.001117	0.48382	mg/L	0.001117	0.23%
Cr 205.560†	9798.9	0.48423	mg/L	0.001381	0.48423	mg/L	0.001381	0.29%
QC value within limits for Cr 205.560 Recovery = 96.85%								

Pb 220.353†	1695.2	0.47227 mg/L	0.003066	0.47227 mg/L	0.003066	0.65%
QC value within limits for Pb 220.353 Recovery = 94.45%						
Pb 217.000†	420.6	0.50456 mg/L	0.006444	0.50456 mg/L	0.006444	1.28%
Se 203.985†	251.7	0.48180 mg/L	0.025289	0.48180 mg/L	0.025289	5.25%
Se 196.026†	280.0	0.49267 mg/L	0.005345	0.49267 mg/L	0.005345	1.08%
QC value within limits for Se 196.026 Recovery = 98.53%						

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 8/11/2014 11:02:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	410109.0	103.24	%	2.263				2.19%
Ag 328.068†	0.2	0.00000	mg/L	0.000128	0.00000	mg/L	0.000128	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.6	-0.00326	mg/L	0.002944	-0.00326	mg/L	0.002944	90.46%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-44.6	-0.07549	mg/L	0.003852	-0.07549	mg/L	0.003852	5.10%
Ba 233.527†	48.0	0.00110	mg/L	0.000147	0.00110	mg/L	0.000147	13.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-3.1	-0.00032	mg/L	0.000199	-0.00032	mg/L	0.000199	61.20%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-25.4	-0.00082	mg/L	0.000033	-0.00082	mg/L	0.000033	3.95%
Cr 267.716†	8.4	0.00036	mg/L	0.000365	0.00036	mg/L	0.000365	102.10%
Cr 205.560†	-59.3	-0.00293	mg/L	0.000431	-0.00293	mg/L	0.000431	14.73%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-40.1	-0.01119	mg/L	0.001001	-0.01119	mg/L	0.001001	8.95%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	14.1	0.01697	mg/L	0.003073	0.01697	mg/L	0.003073	18.11%
Se 203.985†	-32.1	-0.06146	mg/L	0.021215	-0.06146	mg/L	0.021215	34.52%
Se 196.026†	-15.6	-0.02737	mg/L	0.023662	-0.02737	mg/L	0.023662	86.45%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 17
Sample ID: MB-14674
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 8/11/2014 11:04:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14674

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: MB-14674

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	383860.3	96.629	%	0.3740				0.39%
Ag 328.068†	19.5	0.00024	mg/L	0.000189	0.00024	mg/L	0.000189	80.09%
As 188.979†	-3.4	-0.00706	mg/L	0.006839	-0.00706	mg/L	0.006839	96.86%
As 193.696†	1.1	0.00186	mg/L	0.002418	0.00186	mg/L	0.002418	130.20%
Ba 233.527†	13.1	0.00030	mg/L	0.000206	0.00030	mg/L	0.000206	68.48%
Cd 228.802†	4.6	0.00048	mg/L	0.000317	0.00048	mg/L	0.000317	66.35%

Cd 226.502†	-7.9	-0.00026	mg/L	0.000140	-0.00026	mg/L	0.000140 54.49%
Cr 267.716†	12.3	0.00052	mg/L	0.000509	0.00052	mg/L	0.000509 97.10%
Cr 205.560†	2.3	0.00012	mg/L	0.000452	0.00012	mg/L	0.000452 389.23%
Pb 220.353†	5.4	0.00150	mg/L	0.003449	0.00150	mg/L	0.003449 230.68%
Pb 217.000†	8.2	0.00984	mg/L	0.009028	0.00984	mg/L	0.009028 91.78%
Se 203.985†	-3.6	-0.00696	mg/L	0.007270	-0.00696	mg/L	0.007270 104.42%
Se 196.026†	12.0	0.02106	mg/L	0.008416	0.02106	mg/L	0.008416 39.96%

Sequence No.: 18
Sample ID: LCS-14674
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 8/11/2014 11:05:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14674

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: LCS-14674

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	382761.0	96.352	%	0.2584				0.27%
Ag 328.068†	5976.0	0.07219	mg/L	0.000286	0.07219	mg/L	0.000286	0.40%
As 188.979†	215.4	0.44753	mg/L	0.011522	0.44753	mg/L	0.011522	2.57%
As 193.696†	256.9	0.43483	mg/L	0.003874	0.43483	mg/L	0.003874	0.89%
Ba 233.527†	19226.5	0.44051	mg/L	0.001693	0.44051	mg/L	0.001693	0.38%
Cd 228.802†	4245.9	0.44376	mg/L	0.006145	0.44376	mg/L	0.006145	1.38%
Cd 226.502†	13504.5	0.43851	mg/L	0.003779	0.43851	mg/L	0.003779	0.86%
Cr 267.716†	10576.5	0.45001	mg/L	0.001715	0.45001	mg/L	0.001715	0.38%
Cr 205.560†	9055.8	0.44751	mg/L	0.006438	0.44751	mg/L	0.006438	1.44%
Pb 220.353†	1513.6	0.42168	mg/L	0.005633	0.42168	mg/L	0.005633	1.34%
Pb 217.000†	360.5	0.43250	mg/L	0.012968	0.43250	mg/L	0.012968	3.00%
Se 203.985†	184.8	0.35370	mg/L	0.009537	0.35370	mg/L	0.009537	2.70%
Se 196.026†	241.2	0.42438	mg/L	0.025853	0.42438	mg/L	0.025853	6.09%

Matrix Recovery Check: LCS-14674

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10024	0.07219	0.000	mg/L	72.0
As 188.979	0.49294	0.44753	0.012	mg/L	90.9
As 193.696	0.50186	0.43483	0.004	mg/L	86.6
Ba 233.527	0.50030	0.44051	0.002	mg/L	88.0
Cd 228.802	0.50048	0.44376	0.006	mg/L	88.7
Cd 226.502	0.49974	0.43851	0.004	mg/L	87.8
Cr 267.716	0.50052	0.45001	0.002	mg/L	89.9
Cr 205.560	0.50012	0.44751	0.006	mg/L	89.5
Pb 220.353	0.50150	0.42168	0.006	mg/L	84.0
Pb 217.000	0.50984	0.43250	0.013	mg/L	84.5
Se 203.985	0.49304	0.35370	0.010	mg/L	72.1
Se 196.026	0.52106	0.42438	0.026	mg/L	80.7

Sequence No.: 19
Sample ID: MB-14683
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 8/11/2014 11:06:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14683

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Se only. 08/11/14

Mean Data: MB-14683

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	413782.0	104.16	%	0.388				0.37%
Ag 328.068†	20.3	0.00025	mg/L	0.000347	0.00025	mg/L	0.000347	141.03%
As 188.979†	-6.9	-0.01436	mg/L	0.005965	-0.01436	mg/L	0.005965	41.54%
As 193.696†	-2.0	-0.00339	mg/L	0.005658	-0.00339	mg/L	0.005658	166.83%
Ba 233.527†	6.8	0.00016	mg/L	0.000456	0.00016	mg/L	0.000456	292.03%
Cd 228.802†	5.1	0.00053	mg/L	0.000211	0.00053	mg/L	0.000211	39.61%
Cd 226.502†	-10.5	-0.00034	mg/L	0.000029	-0.00034	mg/L	0.000029	8.41%
Cr 267.716†	1.9	0.00008	mg/L	0.000303	0.00008	mg/L	0.000303	371.89%
Cr 205.560†	-4.5	-0.00022	mg/L	0.000080	-0.00022	mg/L	0.000080	36.00%
Pb 220.353†	6.1	0.00170	mg/L	0.002386	0.00170	mg/L	0.002386	140.64%
Pb 217.000†	4.8	0.00576	mg/L	0.005042	0.00576	mg/L	0.005042	87.60%
Se 203.985†	-6.8	-0.01304	mg/L	0.015047	-0.01304	mg/L	0.015047	115.39%
Se 196.026†	6.3	0.01101	mg/L	0.006053	0.01101	mg/L	0.006053	54.96%

Sequence No.: 20
Sample ID: LCS-14683
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 8/11/2014 11:07:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14683

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Se only. 8/11/14

Mean Data: LCS-14683

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	419441.8	105.59	%	0.799				0.76%
Ag 328.068†	5812.8	0.07022	mg/L	0.000112	0.07022	mg/L	0.000112	0.16%
As 188.979†	220.2	0.45763	mg/L	0.003662	0.45763	mg/L	0.003662	0.80%
As 193.696†	267.8	0.45331	mg/L	0.002094	0.45331	mg/L	0.002094	0.46%
Ba 233.527†	20449.2	0.46852	mg/L	0.000905	0.46852	mg/L	0.000905	0.19%
Cd 228.802†	4457.5	0.46588	mg/L	0.001773	0.46588	mg/L	0.001773	0.38%
Cd 226.502†	14373.4	0.46673	mg/L	0.001318	0.46673	mg/L	0.001318	0.28%
Cr 267.716†	10958.0	0.46624	mg/L	0.001668	0.46624	mg/L	0.001668	0.36%
Cr 205.560†	9388.8	0.46397	mg/L	0.002123	0.46397	mg/L	0.002123	0.46%
Pb 220.353†	1641.1	0.45721	mg/L	0.002513	0.45721	mg/L	0.002513	0.55%
Pb 217.000†	383.0	0.45944	mg/L	0.022913	0.45944	mg/L	0.022913	4.99%
Se 203.985†	232.1	0.44428	mg/L	0.006645	0.44428	mg/L	0.006645	1.50%
Se 196.026†	264.9	0.46616	mg/L	0.011035	0.46616	mg/L	0.011035	2.37%

Matrix Recovery Check: LCS-14683

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10025	0.07022	0.000	mg/L	70.0
As 188.979	0.48564	0.45763	0.004	mg/L	94.4
As 193.696	0.49661	0.45331	0.002	mg/L	91.3
Ba 233.527	0.50016	0.46852	0.001	mg/L	93.7
Cd 228.802	0.50053	0.46588	0.002	mg/L	93.1
Cd 226.502	0.49966	0.46673	0.001	mg/L	93.4
Cr 267.716	0.50008	0.46624	0.002	mg/L	93.2
Cr 205.560	0.49978	0.46397	0.002	mg/L	92.8
Pb 220.353	0.50170	0.45721	0.003	mg/L	91.1
Pb 217.000	0.50576	0.45944	0.023	mg/L	90.7
Se 203.985	0.48696	0.44428	0.007	mg/L	91.5
Se 196.026	0.51101	0.46616	0.011	mg/L	91.0

Sequence No.: 21
Sample ID: 1408413-001A
Analyst: JORGE
Initial Sample Wt:

Autosampler Location: 305
Date Collected: 8/11/2014 11:09:05 AM
Data Type: Original
Initial Sample Vol:

Initial Sample Wt:
Dilution:
Wash Time: 20

Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408413-002AMSD

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408413-002AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	420818.5	105.93	%	0.277				0.26%
Ag 328.068†	5574.8	0.06734	mg/L	0.000076	0.06734	mg/L	0.000076	0.11%
As 188.979†	216.4	0.44969	mg/L	0.012103	0.44969	mg/L	0.012103	2.69%
As 193.696†	260.4	0.44089	mg/L	0.005045	0.44089	mg/L	0.005045	1.14%
Ba 233.527†	20697.5	0.47421	mg/L	0.002196	0.47421	mg/L	0.002196	0.46%
Cd 228.802†	4467.6	0.46694	mg/L	0.000666	0.46694	mg/L	0.000666	0.14%
Cd 226.502†	14464.7	0.46969	mg/L	0.002151	0.46969	mg/L	0.002151	0.46%
Cr 267.716†	11270.6	0.47954	mg/L	0.000372	0.47954	mg/L	0.000372	0.08%
Cr 205.560†	9607.9	0.47479	mg/L	0.001918	0.47479	mg/L	0.001918	0.40%
Pb 220.353†	1609.0	0.44827	mg/L	0.001674	0.44827	mg/L	0.001674	0.37%
Pb 217.000†	374.3	0.44903	mg/L	0.007137	0.44903	mg/L	0.007137	1.59%
Se 203.985†	250.5	0.47934	mg/L	0.012451	0.47934	mg/L	0.012451	2.60%
Se 196.026†	284.8	0.50110	mg/L	0.008528	0.50110	mg/L	0.008528	1.70%

Matrix Recovery Check: 1408413-002AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10009	0.06734	0.000	mg/L	67.3
As 188.979	0.49320	0.44969	0.012	mg/L	91.3
As 193.696	0.48936	0.44089	0.005	mg/L	90.3
Ba 233.527	0.50739	0.47421	0.002	mg/L	93.4
Cd 228.802	0.50051	0.46694	0.001	mg/L	93.3
Cd 226.502	0.49954	0.46969	0.002	mg/L	94.0
Cr 267.716	0.51849	0.47954	0.000	mg/L	92.2
Cr 205.560	0.51811	0.47479	0.002	mg/L	91.3
Pb 220.353	0.50082	0.44827	0.002	mg/L	89.5
Pb 217.000	0.50855	0.44903	0.007	mg/L	88.1
Se 203.985	0.54036	0.47934	0.012	mg/L	87.8
Se 196.026	0.54344	0.50110	0.009	mg/L	91.5

User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 11:15:23 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 27
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 2
Date Collected: 8/11/2014 11:15:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	430871.3	108.46	%	0.891				0.82%
Ag 328.068†	37975.8	0.45874	mg/L	0.001266	0.45874	mg/L	0.001266	0.28%
QC value within limits for Ag 328.068 Recovery = 91.75%								
As 188.979†	218.9	0.45494	mg/L	0.011975	0.45494	mg/L	0.011975	2.63%
QC value within limits for As 188.979 Recovery = 90.99%								
As 193.696†	268.5	0.45448	mg/L	0.007195	0.45448	mg/L	0.007195	1.58%
Ba 233.527†	20443.8	0.46840	mg/L	0.001617	0.46840	mg/L	0.001617	0.35%
QC value within limits for Ba 233.527 Recovery = 93.68%								
Cd 228.802†	4488.9	0.46916	mg/L	0.004923	0.46916	mg/L	0.004923	1.05%
QC value within limits for Cd 228.802 Recovery = 93.83%								
Cd 226.502†	14469.0	0.46983	mg/L	0.001319	0.46983	mg/L	0.001319	0.28%
Cr 267.716†	10935.5	0.46529	mg/L	0.000523	0.46529	mg/L	0.000523	0.11%
Cr 205.560†	9399.1	0.46447	mg/L	0.006146	0.46447	mg/L	0.006146	1.32%
QC value within limits for Cr 205.560 Recovery = 92.89%								
Pb 220.353†	1665.6	0.46402	mg/L	0.005725	0.46402	mg/L	0.005725	1.23%
QC value within limits for Pb 220.353 Recovery = 92.80%								
Pb 217.000†	385.7	0.46269	mg/L	0.002516	0.46269	mg/L	0.002516	0.54%
Se 203.985†	240.6	0.46055	mg/L	0.012598	0.46055	mg/L	0.012598	2.74%
Se 196.026†	262.1	0.46120	mg/L	0.010209	0.46120	mg/L	0.010209	2.21%
QC value within limits for Se 196.026 Recovery = 92.24%								

All analyte(s) passed QC.

Sequence No.: 28
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/11/2014 11:16:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	434241.3	109.31	%	1.176				1.08%
Ag 328.068†	33.8	0.00041	mg/L	0.000278	0.00041	mg/L	0.000278	68.02%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-4.2	-0.00863	mg/L	0.006362	-0.00863	mg/L	0.006362	73.69%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-3.7	-0.00626	mg/L	0.001766	-0.00626	mg/L	0.001766	28.21%
Ba 233.527†	8.8	0.00020	mg/L	0.000247	0.00020	mg/L	0.000247	122.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	3.6	0.00037	mg/L	0.000224	0.00037	mg/L	0.000224	60.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-6.2	-0.00020	mg/L	0.000098	-0.00020	mg/L	0.000098	49.09%
Cr 267.716†	3.0	0.00013	mg/L	0.000094	0.00013	mg/L	0.000094	72.72%
Cr 205.560†	12.4	0.00061	mg/L	0.001334	0.00061	mg/L	0.001334	217.26%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	3.1	0.00087	mg/L	0.003215	0.00087	mg/L	0.003215	371.27%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	1.1	0.00134	mg/L	0.004113	0.00134	mg/L	0.004113	306.48%
Se 203.985†	-1.2	-0.00221	mg/L	0.010098	-0.00221	mg/L	0.010098	456.99%
Se 196.026†	4.9	0.00861	mg/L	0.004219	0.00861	mg/L	0.004219	49.03%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:

Autosampler Location: 3
Date Collected: 8/11/2014 11:17:53 AM
Data Type: Original
Initial Sample Vol:

Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	428317.9	107.82	%	0.936				0.87%
Ag 328.068†	3.5	0.00004	mg/L	0.000213	0.00004	mg/L	0.000213	498.63%
As 188.979†	-2.9	-0.00602	mg/L	0.004424	-0.00602	mg/L	0.004424	73.50%
As 193.696†	-2.6	-0.00449	mg/L	0.006114	-0.00449	mg/L	0.006114	136.29%
Ba 233.527†	0.2	0.00000	mg/L	0.000095	0.00000	mg/L	0.000095	>999.9%
Cd 228.802†	4.0	0.00042	mg/L	0.000310	0.00042	mg/L	0.000310	73.48%
Cd 226.502†	-4.9	-0.00016	mg/L	0.000058	-0.00016	mg/L	0.000058	36.35%
Cr 267.716†	-1.9	-0.00008	mg/L	0.000061	-0.00008	mg/L	0.000061	76.00%
Cr 205.560†	13.4	0.00066	mg/L	0.000359	0.00066	mg/L	0.000359	54.10%
Pb 220.353†	0.1	0.00003	mg/L	0.000279	0.00003	mg/L	0.000279	842.43%
Pb 217.000†	2.4	0.00286	mg/L	0.003553	0.00286	mg/L	0.003553	124.15%
Se 203.985†	-8.7	-0.01671	mg/L	0.008072	-0.01671	mg/L	0.008072	48.29%
Se 196.026†	3.9	0.00688	mg/L	0.013007	0.00688	mg/L	0.013007	189.18%

All analyte(s) passed QC.

Sequence No.: 30 **Autosampler Location:** 310
Sample ID: 1408347-001A **Date Collected:** 8/11/2014 11:19:11 AM
Analyst: JORGE **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: 1408347-001A

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408347-001A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	480580.3	120.98	%	0.541				0.45%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.0%								
Ag 328.068†	-115.1	-0.00139	mg/L	0.000429	-0.00139	mg/L	0.000429	30.85%
As 188.979†	29.3	0.06091	mg/L	0.007956	0.06091	mg/L	0.007956	13.06%
As 193.696†	-79.0	-0.13382	mg/L	0.008868	-0.13382	mg/L	0.008868	6.63%
Ba 233.527†	146044.8	3.3461	mg/L	0.00876	3.3461	mg/L	0.00876	0.26%
Cd 228.802†	-2.7	-0.00029	mg/L	0.000384	-0.00029	mg/L	0.000384	133.86%
Cd 226.502†	-187.2	-0.00608	mg/L	0.000096	-0.00608	mg/L	0.000096	1.58%
Cr 267.716†	2743.1	0.11671	mg/L	0.000697	0.11671	mg/L	0.000697	0.60%
Cr 205.560†	2099.3	0.10374	mg/L	0.000669	0.10374	mg/L	0.000669	0.64%
Pb 220.353†	369.5	0.10295	mg/L	0.001158	0.10295	mg/L	0.001158	1.13%
Pb 217.000†	135.1	0.16203	mg/L	0.004309	0.16203	mg/L	0.004309	2.66%
Se 203.985†	-0.3	-0.00065	mg/L	0.012860	-0.00065	mg/L	0.012860	>999.9%
Se 196.026†	-30.7	-0.05401	mg/L	0.008495	-0.05401	mg/L	0.008495	15.73%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								

Internal Standard Check failed. Continue with analysis.

Sequence No.: 31 **Autosampler Location:** 311
Sample ID: 1408347-001AMS **Date Collected:** 8/11/2014 11:20:28 AM
Analyst: JORGE **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor:** 1

Nebulizer Parameters: 1408347-001AMS

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408347-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	474979.5	119.57	%	0.138				0.12%
Ag 328.068†	4880.1	0.05895	mg/L	0.000746	0.05895	mg/L	0.000746	1.26%
As 188.979†	202.4	0.42068	mg/L	0.002578	0.42068	mg/L	0.002578	0.61%
As 193.696†	86.9	0.14707	mg/L	0.005819	0.14707	mg/L	0.005819	3.96%
Ba 233.527†	177158.6	4.0590	mg/L	0.00882	4.0590	mg/L	0.00882	0.22%
Cd 228.802†	3424.8	0.35794	mg/L	0.003461	0.35794	mg/L	0.003461	0.97%
Cd 226.502†	9890.4	0.32115	mg/L	0.001704	0.32115	mg/L	0.001704	0.53%
Cr 267.716†	11214.1	0.47714	mg/L	0.001198	0.47714	mg/L	0.001198	0.25%
Cr 205.560†	9437.6	0.46638	mg/L	0.007323	0.46638	mg/L	0.007323	1.57%
Pb 220.353†	1461.9	0.40730	mg/L	0.002218	0.40730	mg/L	0.002218	0.54%
Pb 217.000†	450.3	0.54018	mg/L	0.004000	0.54018	mg/L	0.004000	0.74%
Se 203.985†	181.5	0.34733	mg/L	0.017291	0.34733	mg/L	0.017291	4.98%
Se 196.026†	158.0	0.27802	mg/L	0.014758	0.27802	mg/L	0.014758	5.31%

Matrix Recovery Check: 1408347-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09861	0.05895	0.001	mg/L	60.3
As 188.979	0.56091	0.42068	0.003	mg/L	72.0
As 193.696	0.36618	0.14707	0.006	mg/L	56.2
Ba 233.527	3.8461	4.0590	0.009	mg/L	142.6
Cd 228.802	0.49971	0.35794	0.003	mg/L	71.6
Cd 226.502	0.49392	0.32115	0.002	mg/L	65.4
Cr 267.716	0.61671	0.47714	0.001	mg/L	72.1
Cr 205.560	0.60374	0.46638	0.007	mg/L	72.5
Pb 220.353	0.60295	0.40730	0.002	mg/L	60.9
Pb 217.000	0.66203	0.54018	0.004	mg/L	75.6
Se 203.985	0.49935	0.34733	0.017	mg/L	69.6
Se 196.026	0.44599	0.27802	0.015	mg/L	66.4

Sequence No.: 32
Sample ID: 1408347-001AMSD
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 312
Date Collected: 8/11/2014 11:21:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMSD

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408347-001AMSD

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	503576.6	126.77	%	0.801				0.63%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 126.8%								
Ag 328.068†	4907.2	0.05928	mg/L	0.000189	0.05928	mg/L	0.000189	0.32%
As 188.979†	196.0	0.40728	mg/L	0.005838	0.40728	mg/L	0.005838	1.43%
As 193.696†	81.7	0.13839	mg/L	0.006174	0.13839	mg/L	0.006174	4.46%
Ba 233.527†	140213.5	3.2125	mg/L	0.01015	3.2125	mg/L	0.01015	0.32%
Cd 228.802†	3255.0	0.34020	mg/L	0.000397	0.34020	mg/L	0.000397	0.12%
Cd 226.502†	9592.8	0.31149	mg/L	0.001519	0.31149	mg/L	0.001519	0.49%
Cr 267.716†	11036.3	0.46957	mg/L	0.001336	0.46957	mg/L	0.001336	0.28%
Cr 205.560†	9115.1	0.45044	mg/L	0.000502	0.45044	mg/L	0.000502	0.11%
Pb 220.353†	1355.0	0.37750	mg/L	0.003374	0.37750	mg/L	0.003374	0.89%
Pb 217.000†	423.0	0.50753	mg/L	0.004046	0.50753	mg/L	0.004046	0.80%
Se 203.985†	168.7	0.32291	mg/L	0.011393	0.32291	mg/L	0.011393	3.53%
Se 196.026†	147.9	0.26028	mg/L	0.013267	0.26028	mg/L	0.013267	5.10%

Matrix Recovery Check: 1408347-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09861	0.05928	0.000	mg/L	60.7
As 188.979	0.56091	0.40728	0.006	mg/L	69.3
As 193.696	0.36618	0.13839	0.006	mg/L	54.4
Ba 233.527	3.8461	3.2125	0.010	mg/L	-26.7
Cd 228.802	0.49971	0.34020	0.000	mg/L	68.1
Cd 226.502	0.49392	0.31149	0.002	mg/L	63.5
Cr 267.716	0.61671	0.46957	0.001	mg/L	70.6
Cr 205.560	0.60374	0.45044	0.001	mg/L	69.3
Pb 220.353	0.60295	0.37750	0.003	mg/L	54.9
Pb 217.000	0.66203	0.50753	0.004	mg/L	69.1
Se 203.985	0.49935	0.32291	0.011	mg/L	64.7
Se 196.026	0.44599	0.26028	0.013	mg/L	62.9

Internal Standard Check failed. Continue with analysis.

Sequence No.: 33
Sample ID: 1407395-002A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 313
Date Collected: 8/11/2014 11:23:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1407395-002A

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 11:24:20 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 34
Sample ID: 1407395-003A
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 314
Date Collected: 8/11/2014 11:24:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1407395-003A

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1407395-003A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	396457.8	99.800	%	0.6128				0.61%
Ag 328.068†	197734.2	2.3886	mg/L	0.05286	2.3886	mg/L	0.05286	2.21%
As 188.979†	-14.9	-0.03088	mg/L	0.007480	-0.03088	mg/L	0.007480	24.23%
Concentration less than lower limit for As 188.979. Lower limit: -0.02 mg/L.								
As 193.696†	-174.0	-0.29448	mg/L	0.016176	-0.29448	mg/L	0.016176	5.49%
Ba 233.527†	428600.9	9.8199	mg/L	0.02682	9.8199	mg/L	0.02682	0.27%
Cd 228.802†	-72.3	-0.00756	mg/L	0.000701	-0.00756	mg/L	0.000701	9.28%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								

Cd 226.502†	-17520.5	-0.56892	mg/L	0.002188	-0.56892	mg/L	0.002188	0.38%
Cr 267.716†	1819466.1	77.415	mg/L	0.2025	77.415	mg/L	0.2025	0.26%
Cr 205.560†	1468899.6	72.588	mg/L	0.2456	72.588	mg/L	0.2456	0.34%
Pb 220.353†	-350.6	-0.09769	mg/L	0.003705	-0.09769	mg/L	0.003705	3.79%
Concentration less than lower limit for Pb 220.353. Lower limit: -0.005 mg/L.								
Pb 217.000†	46.1	0.05533	mg/L	0.007105	0.05533	mg/L	0.007105	12.84%
Se 203.985†	1436.2	2.7486	mg/L	0.09135	2.7486	mg/L	0.09135	3.32%
Se 196.026†	-83.1	-0.14621	mg/L	0.024931	-0.14621	mg/L	0.024931	17.05%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								

Sequence No.: 35
Sample ID: BLANK
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 12
Date Collected: 8/11/2014 11:25:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	445006.1	112.02	%	0.947				0.85%
Ag 328.068†	122.4	0.00148	mg/L	0.000670	0.00148	mg/L	0.000670	45.32%
As 188.979†	-3.6	-0.00747	mg/L	0.004915	-0.00747	mg/L	0.004915	65.79%
As 193.696†	-0.3	-0.00054	mg/L	0.008954	-0.00054	mg/L	0.008954	>999.9%
Ba 233.527†	14.9	0.00034	mg/L	0.000138	0.00034	mg/L	0.000138	40.51%
Cd 228.802†	5.9	0.00061	mg/L	0.000026	0.00061	mg/L	0.000026	4.16%
Cd 226.502†	-5.4	-0.00018	mg/L	0.000179	-0.00018	mg/L	0.000179	101.28%
Cr 267.716†	10.2	0.00044	mg/L	0.000067	0.00044	mg/L	0.000067	15.27%
Cr 205.560†	33.2	0.00164	mg/L	0.000279	0.00164	mg/L	0.000279	17.03%
Pb 220.353†	8.1	0.00227	mg/L	0.000932	0.00227	mg/L	0.000932	41.10%
Pb 217.000†	2.5	0.00306	mg/L	0.006484	0.00306	mg/L	0.006484	212.16%
Se 203.985†	-5.4	-0.01032	mg/L	0.011128	-0.01032	mg/L	0.011128	107.83%
Se 196.026†	2.6	0.00462	mg/L	0.011592	0.00462	mg/L	0.011592	251.01%

Sequence No.: 36
Sample ID: 1408347-001A 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 315
Date Collected: 8/11/2014 11:26:54 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001A 2X

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: 1408347-001A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	474580.9	119.47	%	0.916				0.77%
Ag 328.068†	-36.2	-0.00044	mg/L	0.000418	-0.00044	mg/L	0.000418	95.59%
As 188.979†	12.7	0.02641	mg/L	0.008190	0.02641	mg/L	0.008190	31.01%
As 193.696†	-40.3	-0.06815	mg/L	0.006984	-0.06815	mg/L	0.006984	10.25%
Ba 233.527†	84255.5	1.9304	mg/L	0.00376	1.9304	mg/L	0.00376	0.19%
Cd 228.802†	-4.7	-0.00049	mg/L	0.000356	-0.00049	mg/L	0.000356	72.49%
Cd 226.502†	-127.4	-0.00414	mg/L	0.000039	-0.00414	mg/L	0.000039	0.94%
Cr 267.716†	1588.5	0.06759	mg/L	0.000842	0.06759	mg/L	0.000842	1.25%
Cr 205.560†	1192.0	0.05891	mg/L	0.001102	0.05891	mg/L	0.001102	1.87%
Pb 220.353†	226.0	0.06295	mg/L	0.000902	0.06295	mg/L	0.000902	1.43%
Pb 217.000†	76.0	0.09119	mg/L	0.004381	0.09119	mg/L	0.004381	4.80%
Se 203.985†	-23.2	-0.04444	mg/L	0.035093	-0.04444	mg/L	0.035093	78.96%

Se 196.026†	-17.1	-0.03011 mg/L	0.006318	-0.03011 mg/L	0.006318	20.98%

Sequence No.: 37
Sample ID: 1408347-001AMS 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 316
Date Collected: 8/11/2014 11:28:10 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMS 2X

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: 1408347-001AMS 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	476571.1	119.97	%	1.397				1.16%
Ag 328.068†	2621.4	0.03167	mg/L	0.000211	0.03167	mg/L	0.000211	0.66%
As 188.979†	110.0	0.22857	mg/L	0.002649	0.22857	mg/L	0.002649	1.16%
As 193.696†	48.4	0.08198	mg/L	0.008728	0.08198	mg/L	0.008728	10.65%
Ba 233.527†	99630.1	2.2827	mg/L	0.00114	2.2827	mg/L	0.00114	0.05%
Cd 228.802†	1864.4	0.19486	mg/L	0.001751	0.19486	mg/L	0.001751	0.90%
Cd 226.502†	5529.3	0.17954	mg/L	0.002390	0.17954	mg/L	0.002390	1.33%
Cr 267.716†	6258.8	0.26630	mg/L	0.000651	0.26630	mg/L	0.000651	0.24%
Cr 205.560†	5180.1	0.25598	mg/L	0.003873	0.25598	mg/L	0.003873	1.51%
Pb 220.353†	827.9	0.23064	mg/L	0.000602	0.23064	mg/L	0.000602	0.26%
Pb 217.000†	241.2	0.28940	mg/L	0.010273	0.28940	mg/L	0.010273	3.55%
Se 203.985†	90.5	0.17323	mg/L	0.031640	0.17323	mg/L	0.031640	18.26%
Se 196.026†	79.8	0.14041	mg/L	0.018529	0.14041	mg/L	0.018529	13.20%

Sequence No.: 38
Sample ID: 1408347-001AMSD 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 317
Date Collected: 8/11/2014 11:29:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMSD 2X

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: 1408347-001AMSD 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	482365.6	121.43	%	0.126				0.10%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.4%								
Ag 328.068†	2715.4	0.03280	mg/L	0.000249	0.03280	mg/L	0.000249	0.76%
As 188.979†	111.6	0.23190	mg/L	0.008554	0.23190	mg/L	0.008554	3.69%
As 193.696†	55.4	0.09375	mg/L	0.010156	0.09375	mg/L	0.010156	10.83%
Ba 233.527†	80125.4	1.8358	mg/L	0.00534	1.8358	mg/L	0.00534	0.29%
Cd 228.802†	1856.4	0.19402	mg/L	0.001778	0.19402	mg/L	0.001778	0.92%
Cd 226.502†	5553.3	0.18032	mg/L	0.000793	0.18032	mg/L	0.000793	0.44%
Cr 267.716†	6227.0	0.26495	mg/L	0.001193	0.26495	mg/L	0.001193	0.45%
Cr 205.560†	5212.7	0.25759	mg/L	0.001194	0.25759	mg/L	0.001194	0.46%
Pb 220.353†	812.4	0.22633	mg/L	0.003580	0.22633	mg/L	0.003580	1.58%
Pb 217.000†	236.5	0.28371	mg/L	0.006378	0.28371	mg/L	0.006378	2.25%
Se 203.985†	72.2	0.13814	mg/L	0.038641	0.13814	mg/L	0.038641	27.97%
Se 196.026†	87.0	0.15314	mg/L	0.014521	0.15314	mg/L	0.014521	9.48%

Internal Standard Check failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 11:31:43 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 39
Sample ID: 1408347-001APS 2X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 201
Date Collected: 8/11/2014 11:31:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 1408347-001APS 2X

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: 1408347-001APS 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	477339.4	120.16	%	1.648				1.37%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.2%								
Ag 328.068†	5439.3	0.06571	mg/L	0.000322	0.06571	mg/L	0.000322	0.49%
As 188.979†	207.6	0.43148	mg/L	0.015258	0.43148	mg/L	0.015258	3.54%
As 193.696†	191.6	0.32430	mg/L	0.007857	0.32430	mg/L	0.007857	2.42%
Ba 233.527†	96119.0	2.2022	mg/L	0.00467	2.2022	mg/L	0.00467	0.21%
Cd 228.802†	3699.6	0.38667	mg/L	0.003041	0.38667	mg/L	0.003041	0.79%
Cd 226.502†	11260.2	0.36564	mg/L	0.000160	0.36564	mg/L	0.000160	0.04%
Cr 267.716†	10225.3	0.43506	mg/L	0.001721	0.43506	mg/L	0.001721	0.40%
Cr 205.560†	8676.6	0.42877	mg/L	0.004360	0.42877	mg/L	0.004360	1.02%
Pb 220.353†	1489.5	0.41497	mg/L	0.004403	0.41497	mg/L	0.004403	1.06%
Pb 217.000†	382.7	0.45910	mg/L	0.006474	0.45910	mg/L	0.006474	1.41%
Se 203.985†	186.5	0.35687	mg/L	0.010398	0.35687	mg/L	0.010398	2.91%
Se 196.026†	197.0	0.34675	mg/L	0.002932	0.34675	mg/L	0.002932	0.85%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 40
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/11/2014 11:32:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	450527.0	113.41	%	0.181				0.16%
Ag 328.068†	36541.8	0.44142	mg/L	0.000470	0.44142	mg/L	0.000470	0.11%
QC value less than the lower limit for Ag 328.068 Recovery = 88.28%								
As 188.979†	215.0	0.44684	mg/L	0.007892	0.44684	mg/L	0.007892	1.77%
QC value less than the lower limit for As 188.979 Recovery = 89.37%								
As 193.696†	266.4	0.45106	mg/L	0.001864	0.45106	mg/L	0.001864	0.41%
Ba 233.527†	19819.1	0.45408	mg/L	0.001235	0.45408	mg/L	0.001235	0.27%
QC value within limits for Ba 233.527 Recovery = 90.82%								
Cd 228.802†	4384.1	0.45821	mg/L	0.002264	0.45821	mg/L	0.002264	0.49%
QC value within limits for Cd 228.802 Recovery = 91.64%								
Cd 226.502†	14107.1	0.45808	mg/L	0.002251	0.45808	mg/L	0.002251	0.49%

Cr 267.716†	10625.2	0.45208 mg/L	0.000930	0.45208 mg/L	0.000930	0.21%
Cr 205.560†	9220.9	0.45567 mg/L	0.003119	0.45567 mg/L	0.003119	0.68%
QC value within limits for Cr 205.560 Recovery = 91.13%						
Pb 220.353†	1621.4	0.45173 mg/L	0.002684	0.45173 mg/L	0.002684	0.59%
QC value within limits for Pb 220.353 Recovery = 90.35%						
Pb 217.000†	378.7	0.45434 mg/L	0.010326	0.45434 mg/L	0.010326	2.27%
Se 203.985†	233.6	0.44712 mg/L	0.003607	0.44712 mg/L	0.003607	0.81%
Se 196.026†	254.7	0.44827 mg/L	0.014085	0.44827 mg/L	0.014085	3.14%
QC value less than the lower limit for Se 196.026 Recovery = 89.65%						

QC Failed. Retry

Sequence No.: 41
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/11/2014 11:33:53 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	453977.1	114.28	%	0.205				0.18%
Ag 328.068†	36457.5	0.44040	mg/L	0.000952	0.44040	mg/L	0.000952	0.22%
QC value less than the lower limit for Ag 328.068 Recovery = 88.08%								
As 188.979†	214.3	0.44527	mg/L	0.005709	0.44527	mg/L	0.005709	1.28%
QC value less than the lower limit for As 188.979 Recovery = 89.05%								
As 193.696†	266.3	0.45074	mg/L	0.006922	0.45074	mg/L	0.006922	1.54%
Ba 233.527†	19726.7	0.45197	mg/L	0.000627	0.45197	mg/L	0.000627	0.14%
QC value within limits for Ba 233.527 Recovery = 90.39%								
Cd 228.802†	4348.9	0.45453	mg/L	0.001709	0.45453	mg/L	0.001709	0.38%
QC value within limits for Cd 228.802 Recovery = 90.91%								
Cd 226.502†	14048.5	0.45617	mg/L	0.001185	0.45617	mg/L	0.001185	0.26%
Cr 267.716†	10621.4	0.45192	mg/L	0.001201	0.45192	mg/L	0.001201	0.27%
Cr 205.560†	9132.2	0.45129	mg/L	0.003211	0.45129	mg/L	0.003211	0.71%
QC value within limits for Cr 205.560 Recovery = 90.26%								
Pb 220.353†	1616.9	0.45046	mg/L	0.001271	0.45046	mg/L	0.001271	0.28%
QC value within limits for Pb 220.353 Recovery = 90.09%								
Pb 217.000†	372.5	0.44689	mg/L	0.008044	0.44689	mg/L	0.008044	1.80%
Se 203.985†	228.0	0.43643	mg/L	0.009363	0.43643	mg/L	0.009363	2.15%
Se 196.026†	253.3	0.44567	mg/L	0.014010	0.44567	mg/L	0.014010	3.14%
QC value less than the lower limit for Se 196.026 Recovery = 89.13%								

QC Failed. Continue with analysis.

Sequence No.: 42
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/11/2014 11:35:07 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	456503.4	114.92	%	1.367				1.19%
Ag 328.068†	79.4	0.00096	mg/L	0.000080	0.00096	mg/L	0.000080	8.32%
QC value within limits for Ag 328.068 Recovery = Not calculated								

As 188.979†	-1.3	-0.00263	mg/L	0.007091	-0.00263	mg/L	0.007091 270.00%
QC value within limits for As 188.979 Recovery = Not calculated							
As 193.696†	-2.0	-0.00339	mg/L	0.005991	-0.00339	mg/L	0.005991 176.71%
Ba 233.527†	11.8	0.00027	mg/L	0.000203	0.00027	mg/L	0.000203 74.77%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Cd 228.802†	4.3	0.00044	mg/L	0.000086	0.00044	mg/L	0.000086 19.44%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Cd 226.502†	-4.6	-0.00015	mg/L	0.000213	-0.00015	mg/L	0.000213 143.96%
Cr 267.716†	19.7	0.00084	mg/L	0.000668	0.00084	mg/L	0.000668 79.66%
Cr 205.560†	27.3	0.00135	mg/L	0.000553	0.00135	mg/L	0.000553 41.00%
QC value within limits for Cr 205.560 Recovery = Not calculated							
Pb 220.353†	6.6	0.00183	mg/L	0.001865	0.00183	mg/L	0.001865 101.91%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Pb 217.000†	5.5	0.00663	mg/L	0.003022	0.00663	mg/L	0.003022 45.56%
Se 203.985†	-4.2	-0.00811	mg/L	0.006304	-0.00811	mg/L	0.006304 77.69%
Se 196.026†	5.9	0.01035	mg/L	0.015062	0.01035	mg/L	0.015062 145.55%
QC value within limits for Se 196.026 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 43
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

No CAT JS 8/11/14

Autosampler Location: 3
Date Collected: 8/11/2014 11:36:23 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	458490.7	115.42	%	0.606				0.52%
Ag 328.068†	21.3	0.00026	mg/L	0.000287	0.00026	mg/L	0.000287	111.44%
As 188.979†	-4.0	-0.00831	mg/L	0.005665	-0.00831	mg/L	0.005665	68.14%
As 193.696†	-0.4	-0.00063	mg/L	0.003353	-0.00063	mg/L	0.003353	528.15%
Ba 233.527†	13.3	0.00030	mg/L	0.000297	0.00030	mg/L	0.000297	97.56%
Cd 228.802†	4.4	0.00046	mg/L	0.000472	0.00046	mg/L	0.000472	103.10%
Cd 226.502†	-7.0	-0.00023	mg/L	0.000067	-0.00023	mg/L	0.000067	29.55%
Cr 267.716†	7.1	0.00030	mg/L	0.000170	0.00030	mg/L	0.000170	56.53%
Cr 205.560†	27.9	0.00138	mg/L	0.000385	0.00138	mg/L	0.000385	27.93%
Pb 220.353†	4.8	0.00134	mg/L	0.001381	0.00134	mg/L	0.001381	103.27%
Pb 217.000†	4.4	0.00524	mg/L	0.006921	0.00524	mg/L	0.006921	132.08%
Se 203.985†	-2.3	-0.00439	mg/L	0.009162	-0.00439	mg/L	0.009162	208.81%
Se 196.026†	2.9	0.00502	mg/L	0.007285	0.00502	mg/L	0.007285	145.13%

All analyte(s) passed QC.

Sequence No.: 44
Sample ID: 1408395-003A 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 318
Date Collected: 8/11/2014 11:37:39 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408395-003A 5X

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: 1408395-003A 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	452470.4	113.90	%	0.737				0.65%
Ag 328.068†	39321.1	0.47499	mg/L	0.060759	0.47499	mg/L	0.060759	12.79%

As 188.979†	-6.5	-0.01351	mg/L	0.006323	-0.01351	mg/L	0.006323	46.79%
As 193.696†	-51.2	-0.08668	mg/L	0.004345	-0.08668	mg/L	0.004345	5.01%
Ba 233.527†	95384.6	2.1854	mg/L	0.00251	2.1854	mg/L	0.00251	0.11%
Cd 228.802†	-21.4	-0.00224	mg/L	0.000453	-0.00224	mg/L	0.000453	20.21%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-4038.4	-0.13113	mg/L	0.000160	-0.13113	mg/L	0.000160	0.12%
Cr 267.716†	404356.5	17.205	mg/L	0.0296	17.205	mg/L	0.0296	0.17%
Cr 205.560†	336981.2	16.653	mg/L	0.0310	16.653	mg/L	0.0310	0.19%
Pb 220.353†	-76.3	-0.02126	mg/L	0.001743	-0.02126	mg/L	0.001743	8.20%
Concentration less than lower limit for Pb 220.353. Lower limit: -0.005 mg/L.								
Pb 217.000†	5.1	0.00616	mg/L	0.004509	0.00616	mg/L	0.004509	73.23%
Se 203.985†	291.5	0.55781	mg/L	0.024612	0.55781	mg/L	0.024612	4.41%
Se 196.026†	-30.9	-0.05432	mg/L	0.009045	-0.05432	mg/L	0.009045	16.65%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								

Sequence No.: 45
Sample ID: 1408395-003A 50X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 319
Date Collected: 8/11/2014 11:38:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408395-003A 50X

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: 1408395-003A 50X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	464941.9	117.04	%	0.729				0.62%
Ag 328.068†	3696.4	0.04465	mg/L	0.000257	0.04465	mg/L	0.000257	0.58%
As 188.979†	-4.7	-0.00987	mg/L	0.009698	-0.00987	mg/L	0.009698	98.26%
As 193.696†	-6.7	-0.01141	mg/L	0.005159	-0.01141	mg/L	0.005159	45.20%
Ba 233.527†	10281.4	0.23556	mg/L	0.001411	0.23556	mg/L	0.001411	0.60%
Cd 228.802†	-1.9	-0.00020	mg/L	0.000234	-0.00020	mg/L	0.000234	116.34%
Cd 226.502†	-450.1	-0.01461	mg/L	0.000113	-0.01461	mg/L	0.000113	0.78%
Cr 267.716†	43637.2	1.8567	mg/L	0.00457	1.8567	mg/L	0.00457	0.25%
Cr 205.560†	36795.1	1.8183	mg/L	0.00209	1.8183	mg/L	0.00209	0.12%
Pb 220.353†	-4.8	-0.00135	mg/L	0.000941	-0.00135	mg/L	0.000941	69.87%
Pb 217.000†	0.6	0.00075	mg/L	0.001400	0.00075	mg/L	0.001400	186.40%
Se 203.985†	13.0	0.02484	mg/L	0.021966	0.02484	mg/L	0.021966	88.42%
Se 196.026†	1.4	0.00239	mg/L	0.002175	0.00239	mg/L	0.002175	90.82%

Sequence No.: 46
Sample ID: BLANK
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 12
Date Collected: 8/11/2014 11:40:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

8/14/14

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	448937.6	113.01	%	0.152				0.13%
Ag 328.068†	35.6	0.00043	mg/L	0.000133	0.00043	mg/L	0.000133	30.87%
As 188.979†	-3.8	-0.00781	mg/L	0.000676	-0.00781	mg/L	0.000676	8.66%
As 193.696†	2.0	0.00340	mg/L	0.000944	0.00340	mg/L	0.000944	27.73%
Ba 233.527†	16.6	0.00038	mg/L	0.000042	0.00038	mg/L	0.000042	11.00%
Cd 228.802†	3.7	0.00039	mg/L	0.000294	0.00039	mg/L	0.000294	75.61%
Cd 226.502†	-7.3	-0.00024	mg/L	0.000170	-0.00024	mg/L	0.000170	72.04%

Cr 267.716†	-1.5	-0.00006 mg/L	0.000409	-0.00006 mg/L	0.000409	658.28%
Cr 205.560†	6.5	0.00032 mg/L	0.000104	0.00032 mg/L	0.000104	32.57%
Pb 220.353†	10.3	0.00286 mg/L	0.000882	0.00286 mg/L	0.000882	30.87%
Pb 217.000†	6.5	0.00778 mg/L	0.008268	0.00778 mg/L	0.008268	106.26%
Se 203.985†	-3.9	-0.00741 mg/L	0.003721	-0.00741 mg/L	0.003721	50.22%
Se 196.026†	6.0	0.01048 mg/L	0.003985	0.01048 mg/L	0.003985	38.03%

Sequence No.: 47 **Autosampler Location: 320**
Sample ID: 1408347-001A 5X **Date Collected: 8/11/2014 11:41:31 AM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408347-001A 5X

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408347-001A 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	478471.6	120.45	%	0.634				0.53%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.4%								
Ag 328.068†	-20.9	-0.00025	mg/L	0.000500	-0.00025	mg/L	0.000500	198.16%
As 188.979†	3.7	0.00777	mg/L	0.006750	0.00777	mg/L	0.006750	86.82%
As 193.696†	-17.2	-0.02910	mg/L	0.003706	-0.02910	mg/L	0.003706	12.74%
Ba 233.527†	35282.8	0.80838	mg/L	0.002444	0.80838	mg/L	0.002444	0.30%
Cd 228.802†	-4.7	-0.00049	mg/L	0.000353	-0.00049	mg/L	0.000353	72.59%
Cd 226.502†	-62.9	-0.00204	mg/L	0.000318	-0.00204	mg/L	0.000318	15.59%
Cr 267.716†	663.2	0.02822	mg/L	0.000398	0.02822	mg/L	0.000398	1.41%
Cr 205.560†	510.8	0.02524	mg/L	0.000545	0.02524	mg/L	0.000545	2.16%
Pb 220.353†	99.9	0.02784	mg/L	0.002485	0.02784	mg/L	0.002485	8.93%
Pb 217.000†	34.8	0.04178	mg/L	0.001824	0.04178	mg/L	0.001824	4.37%
Se 203.985†	-29.6	-0.05658	mg/L	0.014238	-0.05658	mg/L	0.014238	25.16%
Se 196.026†	-6.3	-0.01101	mg/L	0.008425	-0.01101	mg/L	0.008425	76.53%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 48 **Autosampler Location: 321**
Sample ID: 1408347-001AMS 5X **Date Collected: 8/11/2014 11:42:49 AM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408347-001AMS 5X

Analyte	Back Pressure	Flow
All	321.0 kPa	0.55 L/min

Mean Data: 1408347-001AMS 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	477098.7	120.10	%	1.266				1.05%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.1%								
Ag 328.068†	1109.2	0.01340	mg/L	0.000438	0.01340	mg/L	0.000438	3.27%
As 188.979†	42.1	0.08744	mg/L	0.003200	0.08744	mg/L	0.003200	3.66%
As 193.696†	20.1	0.03405	mg/L	0.010242	0.03405	mg/L	0.010242	30.08%
Ba 233.527†	43105.9	0.98762	mg/L	0.000830	0.98762	mg/L	0.000830	0.08%
Cd 228.802†	800.0	0.08361	mg/L	0.001234	0.08361	mg/L	0.001234	1.48%
Cd 226.502†	2456.2	0.07975	mg/L	0.001068	0.07975	mg/L	0.001068	1.34%
Cr 267.716†	2690.5	0.11448	mg/L	0.001162	0.11448	mg/L	0.001162	1.01%
Cr 205.560†	2239.1	0.11065	mg/L	0.001329	0.11065	mg/L	0.001329	1.20%
Pb 220.353†	382.8	0.10664	mg/L	0.000917	0.10664	mg/L	0.000917	0.86%
Pb 217.000†	104.5	0.12538	mg/L	0.005647	0.12538	mg/L	0.005647	4.50%
Se 203.985†	8.6	0.01646	mg/L	0.012696	0.01646	mg/L	0.012696	77.13%

Se 196.026†	41.6	0.07313 mg/L	0.016507	0.07313 mg/L	0.016507	22.57%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 49
Sample ID: 1408347-001AMSD 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 322
Date Collected: 8/11/2014 11:44:02 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMSD 5X

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: 1408347-001AMSD 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	482922.5	121.57	%	1.202				0.99%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.6%								
Ag 328.068†	1173.7	0.01418	mg/L	0.000154	0.01418	mg/L	0.000154	1.08%
As 188.979†	40.3	0.08367	mg/L	0.004986	0.08367	mg/L	0.004986	5.96%
As 193.696†	19.3	0.03262	mg/L	0.006656	0.03262	mg/L	0.006656	20.40%
Ba 233.527†	35310.5	0.80902	mg/L	0.001719	0.80902	mg/L	0.001719	0.21%
Cd 228.802†	807.2	0.08437	mg/L	0.000853	0.08437	mg/L	0.000853	1.01%
Cd 226.502†	2466.2	0.08008	mg/L	0.001429	0.08008	mg/L	0.001429	1.78%
Cr 267.716†	2743.8	0.11674	mg/L	0.001860	0.11674	mg/L	0.001860	1.59%
Cr 205.560†	2265.0	0.11193	mg/L	0.002056	0.11193	mg/L	0.002056	1.84%
Pb 220.353†	374.2	0.10424	mg/L	0.001582	0.10424	mg/L	0.001582	1.52%
Pb 217.000†	101.3	0.12154	mg/L	0.004553	0.12154	mg/L	0.004553	3.75%
Se 203.985†	8.3	0.01596	mg/L	0.012556	0.01596	mg/L	0.012556	78.67%
Se 196.026†	41.3	0.07266	mg/L	0.007787	0.07266	mg/L	0.007787	10.72%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 50
Sample ID: 1408347-001APS 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 323
Date Collected: 8/11/2014 11:45:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001APS 5X

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: 1408347-001APS 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	479892.1	120.80	%	1.376				1.14%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 120.8%								
Ag 328.068†	5653.4	0.06829	mg/L	0.000538	0.06829	mg/L	0.000538	0.79%
As 188.979†	201.8	0.41934	mg/L	0.007358	0.41934	mg/L	0.007358	1.75%
As 193.696†	228.8	0.38730	mg/L	0.004977	0.38730	mg/L	0.004977	1.29%
Ba 233.527†	52171.2	1.1953	mg/L	0.00387	1.1953	mg/L	0.00387	0.32%
Cd 228.802†	3919.9	0.40970	mg/L	0.002891	0.40970	mg/L	0.002891	0.71%
Cd 226.502†	12318.8	0.40001	mg/L	0.001735	0.40001	mg/L	0.001735	0.43%
Cr 267.716†	9965.6	0.42402	mg/L	0.001476	0.42402	mg/L	0.001476	0.35%
Cr 205.560†	8487.1	0.41941	mg/L	0.003321	0.41941	mg/L	0.003321	0.79%
Pb 220.353†	1494.8	0.41645	mg/L	0.003192	0.41645	mg/L	0.003192	0.77%
Pb 217.000†	358.9	0.43056	mg/L	0.006268	0.43056	mg/L	0.006268	1.46%
Se 203.985†	193.8	0.37090	mg/L	0.017912	0.37090	mg/L	0.017912	4.83%
Se 196.026†	224.0	0.39411	mg/L	0.005611	0.39411	mg/L	0.005611	1.42%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 51
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/11/2014 11:46:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	462212.6	116.35	%	0.386				0.33%
Ag 328.068†	35426.0	0.42794	mg/L	0.000932	0.42794	mg/L	0.000932	0.22%
QC value less than the lower limit for Ag 328.068 Recovery = 85.59%								
As 188.979†	206.6	0.42920	mg/L	0.009429	0.42920	mg/L	0.009429	2.20%
QC value less than the lower limit for As 188.979 Recovery = 85.84%								
As 193.696†	258.8	0.43814	mg/L	0.009645	0.43814	mg/L	0.009645	2.20%
Ba 233.527†	19260.3	0.44128	mg/L	0.000604	0.44128	mg/L	0.000604	0.14%
QC value less than the lower limit for Ba 233.527 Recovery = 88.26%								
Cd 228.802†	4258.7	0.44510	mg/L	0.003560	0.44510	mg/L	0.003560	0.80%
QC value less than the lower limit for Cd 228.802 Recovery = 89.02%								
Cd 226.502†	13731.0	0.44587	mg/L	0.001000	0.44587	mg/L	0.001000	0.22%
Cr 267.716†	10317.4	0.43898	mg/L	0.003295	0.43898	mg/L	0.003295	0.75%
Cr 205.560†	8963.0	0.44292	mg/L	0.003561	0.44292	mg/L	0.003561	0.80%
QC value less than the lower limit for Cr 205.560 Recovery = 88.58%								
Pb 220.353†	1581.9	0.44071	mg/L	0.001339	0.44071	mg/L	0.001339	0.30%
QC value less than the lower limit for Pb 220.353 Recovery = 88.14%								
Pb 217.000†	361.7	0.43393	mg/L	0.015502	0.43393	mg/L	0.015502	3.57%
Se 203.985†	218.5	0.41824	mg/L	0.010193	0.41824	mg/L	0.010193	2.44%
Se 196.026†	250.8	0.44139	mg/L	0.012150	0.44139	mg/L	0.012150	2.75%
QC value less than the lower limit for Se 196.026 Recovery = 88.28%								

QC Failed. Continue with analysis.

Sequence No.: 52
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/11/2014 11:47:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	469028.5	118.07	%	0.898				0.76%
Ag 328.068†	16.0	0.00019	mg/L	0.000397	0.00019	mg/L	0.000397	205.63%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.0	-0.00628	mg/L	0.003584	-0.00628	mg/L	0.003584	57.09%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.9	-0.00158	mg/L	0.007346	-0.00158	mg/L	0.007346	464.14%
Ba 233.527†	4.0	0.00009	mg/L	0.000169	0.00009	mg/L	0.000169	183.15%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	4.4	0.00046	mg/L	0.000361	0.00046	mg/L	0.000361	79.15%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-8.4	-0.00027	mg/L	0.000146	-0.00027	mg/L	0.000146	53.86%
Cr 267.716†	2.9	0.00012	mg/L	0.000344	0.00012	mg/L	0.000344	278.06%
Cr 205.560†	22.8	0.00113	mg/L	0.000300	0.00113	mg/L	0.000300	26.60%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	6.8	0.00190	mg/L	0.000544	0.00190	mg/L	0.000544	28.71%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	0.7	0.00084	mg/L	0.002970	0.00084	mg/L	0.002970 351.89%
Se 203.985†	1.0	0.00189	mg/L	0.007764	0.00189	mg/L	0.007764 411.44%
Se 196.026†	6.8	0.01199	mg/L	0.007365	0.01199	mg/L	0.007365 61.42%

QC value within limits for Se 196.026 Recovery = Not calculated
All analyte(s) passed QC
User canceled analysis.

8/11/14

Analytical Sequence

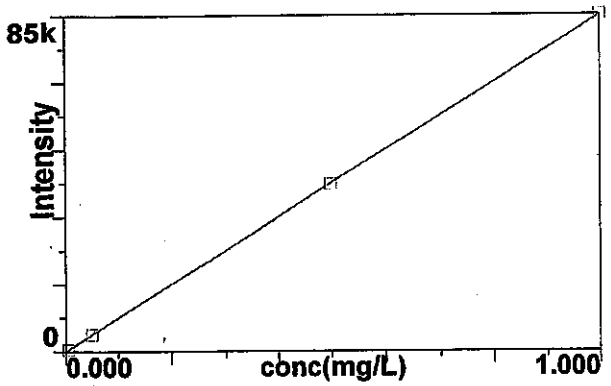
Method : ISIS 080714 6010SOIL

On 1# 2

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank 1	Applied
2	408	ST1	Applied
3	409	ST2	Applied
4	2	ST3	Applied
5	410	ST4	Applied
6	413	ST5	Applied
7	411	ST6	
8	3	ST7	
9	412	ST8	
10	401	ICV	QC Passed
11	402	ICV CAT	
12	1	ICB	QC Passed
13	408	PQL CHECK	QC Passed
14	403	ICS ELEM	QC Passed
15	404	ICS	QC Passed
16	301	MB-14674	Analyzed
17	302	LCS-14674	Analyzed
18	303	MB-14683	
19	304	LCS-14683	
20	305	1408413-001A	
21	306	1408413-001A 5X	
22	307	1408413-002A	
23	308	1408413-002AMS	
24	309	1408413-002AMSD	
25	12	BLANK	
26	2	CCV	
27	1	CCB	
28	3	CCV CAT	
29	310	1408347-001A	
30	311	1408347-001AMS	
31	312	1408347-001AMSD	
32	313	1408395-002A	
33	314	1408395-003A	
34	12	BLANK	
35	315	1408347-001A 2X	
36	316	1408347-001AMS 2X	
37	317	1408347-001AMSD 2X	
38	318	1408395-003A 5X	Samp Limit Failed
39	319	1408395-003A 50X	Analyzed
40	320	1408347-001A 5X	Analyzed
41	321	1408347-001AMS 5X	Analyzed
42	322	1408347-001AMSD 5X	Analyzed
43	323	1408347-001APS 5X	Analyzed
44	12	BLANK	Analyzed
45	2	CCV	QC Passed
46	1	CCB	QC Passed
47	3	CCV CAT	Analyzed
48	7	DI RINSE	QC Passed

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

Ag 328.068



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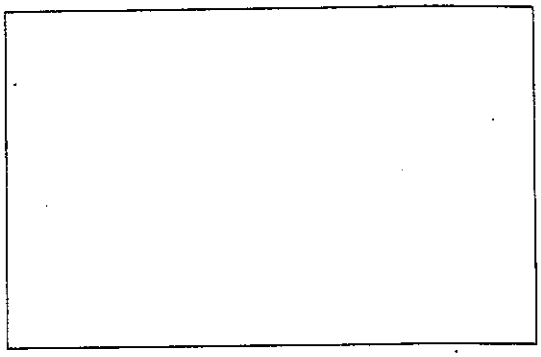
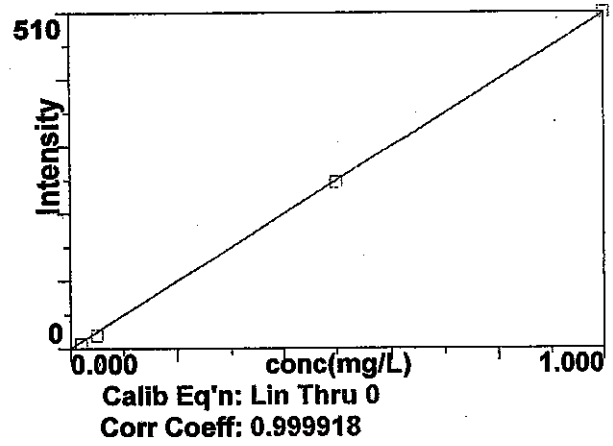
Al 396.153



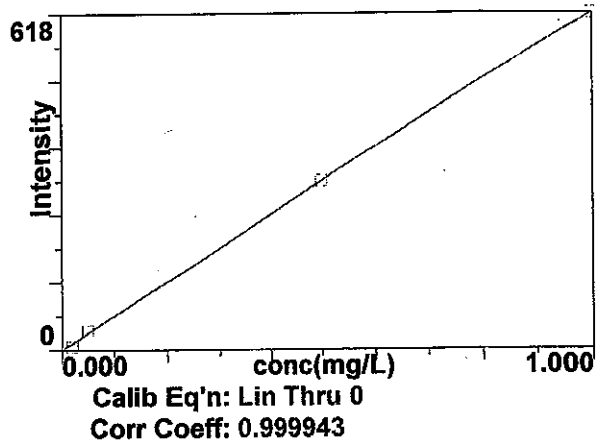
2

As 188.979



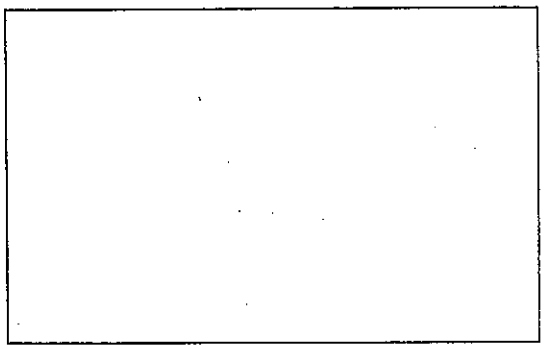
3

As 193.696



4

B 249.772



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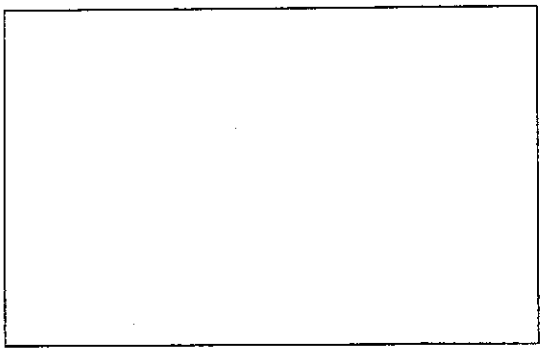
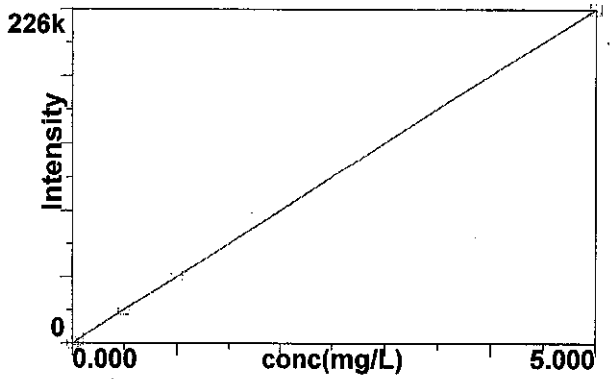
B 249.677



6

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999987

7

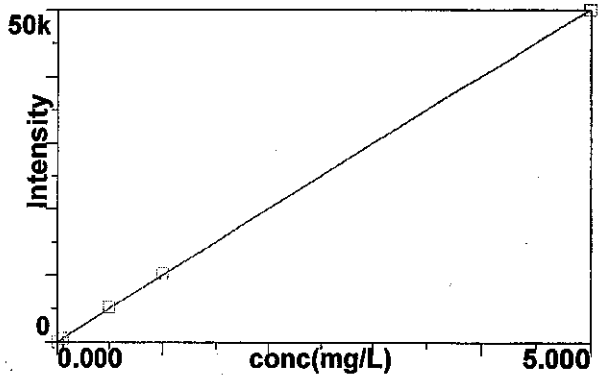
Be 313.107

8

Ca 317.933

9

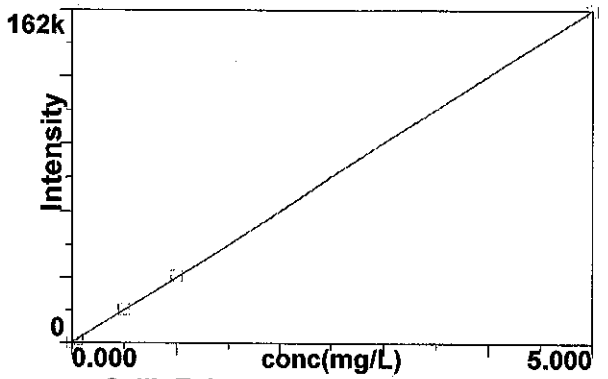
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999981

10

Cd 226.502



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999985

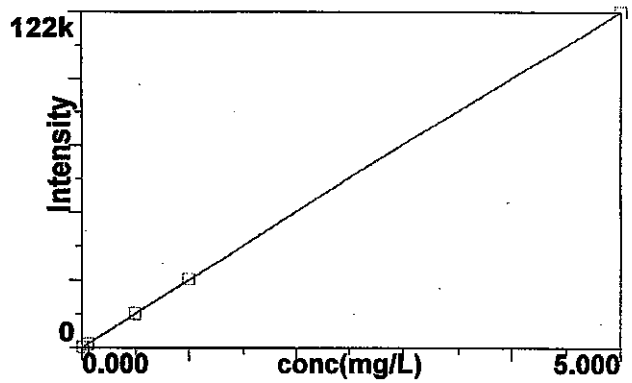
11

Co 228.616

12

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

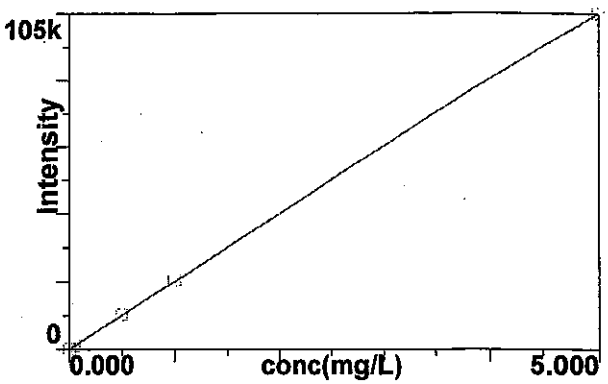
Cr 267.716



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999992

13

Cr 205.560



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999989

14

Cu 324.752

15

Fe 238.204

16

K 766.490

17

Mg 285.213

18

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

Mn 257.610

19

Mo 202.031

20

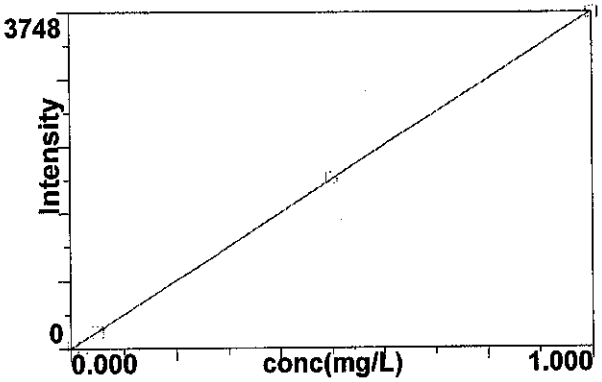
Na 589.592

21

Ni 231.604

22

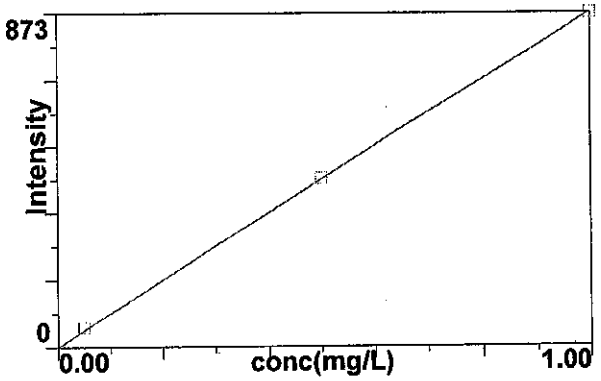
Pb 220.353



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999991

23

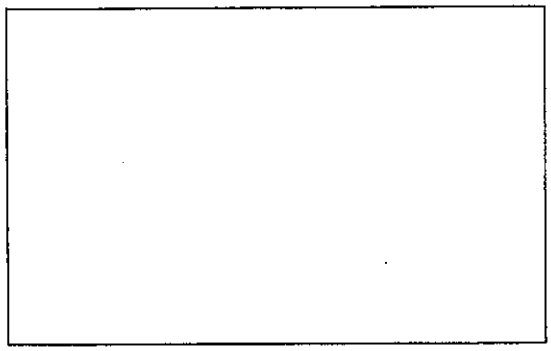
Pb 217.000



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999959

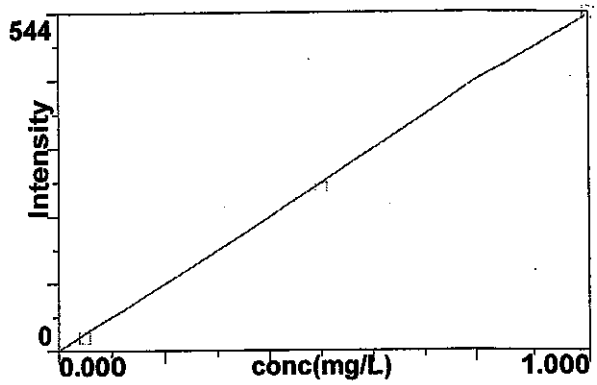
24

Sb 206.836



25

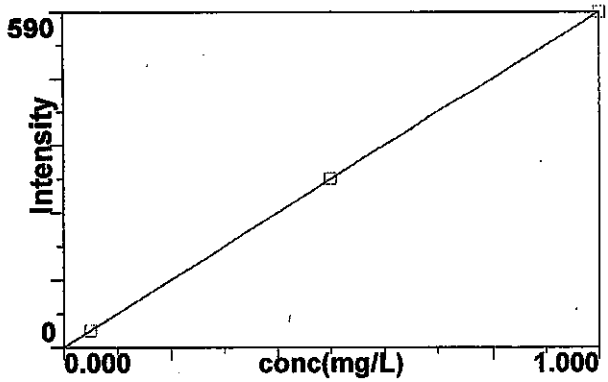
Se 203.985



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999828

26

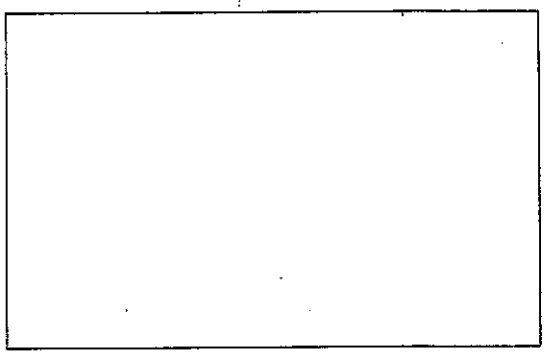
Se 196.026



Calib Eq'n: Lin Thru 0
Corr Coeff: 1.000000

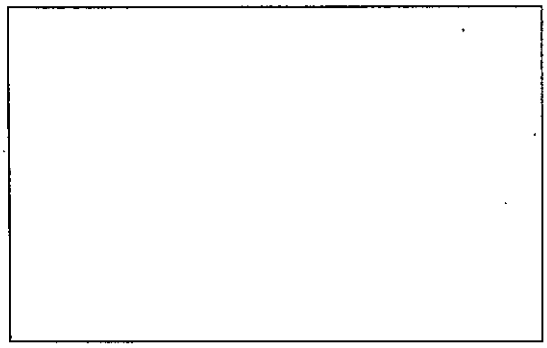
27

Si 212.412



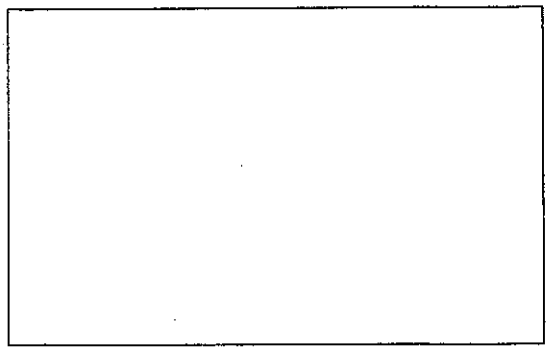
28

Sn 189.927



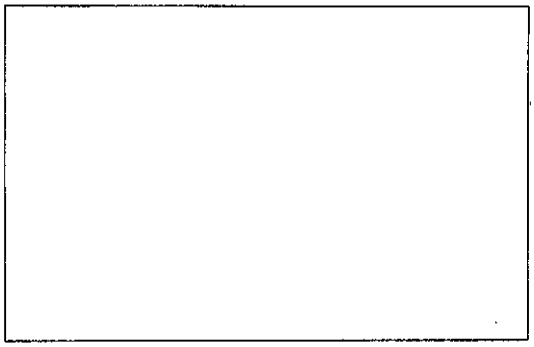
29

Ti 334.940



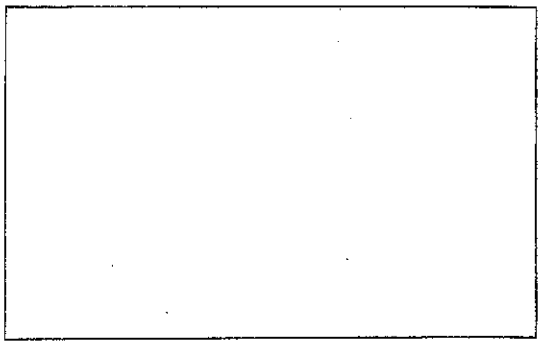
30

Tl 190.801



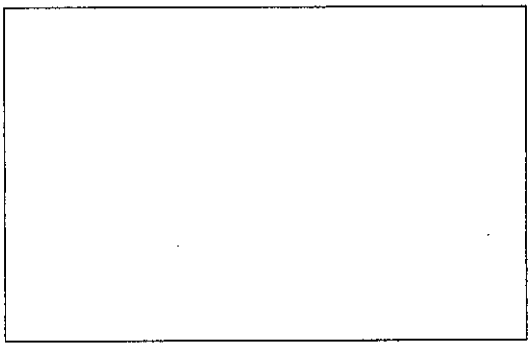
31

U 385.958



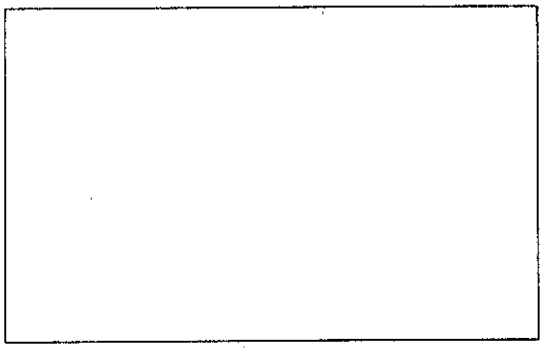
32

V 292.402



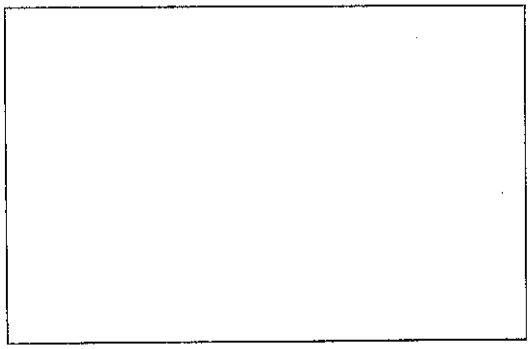
33

Zn 206.200



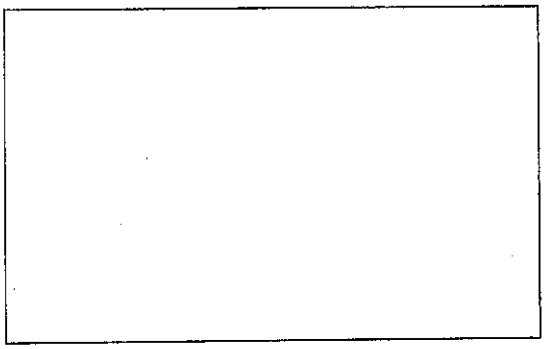
36

Sr 421.552



37

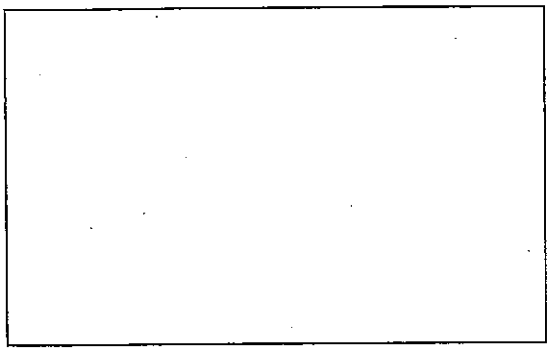
Sr 421.552 R



38

Method: ISIS 080714 6010SOIL
Result: 081114 B14683

U 424.167



39

Analysis Begun

Start Time: 8/11/2014 11:50:19 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/11/2014 11:50:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	470863.3	3740.54	0.79%	100.00	%
Ag 328.068†	104.0	30.19	29.03%	[0.00]	mg/L
As 188.979†	12.2	1.93	15.88%	[0.00]	mg/L
As 193.696†	-5.9	0.72	12.20%	[0.00]	mg/L
Ba 233.527†	-2.2	5.71	255.85%	[0.00]	mg/L
Cd 228.802†	-21.1	1.07	5.05%	[0.00]	mg/L
Cd 226.502†	42.4	2.36	5.57%	[0.00]	mg/L
Cr 267.716†	-9.1	14.53	159.09%	[0.00]	mg/L
Cr 205.560†	-16.7	13.06	78.01%	[0.00]	mg/L
Pb 220.353†	-27.5	3.39	12.31%	[0.00]	mg/L
Pb 217.000†	4.9	1.40	28.62%	[0.00]	mg/L
Se 203.985†	4.2	2.69	63.66%	[0.00]	mg/L
Se 196.026†	-17.2	5.92	34.38%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/11/2014 11:51:44 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	467828.8	3600.55	0.77%	99.356	%
Ag 328.068†	388.1	21.91	5.65%	[0.005]	mg/L
As 188.979†	6.7	2.64	39.15%	[0.02]	mg/L
As 193.696†	6.0	4.53	75.56%	[0.02]	mg/L
Ba 233.527†	107.9	3.54	3.28%	[0.002]	mg/L
Cd 228.802†	21.6	1.48	6.86%	[0.002]	mg/L
Cd 226.502†	61.3	3.72	6.06%	[0.002]	mg/L
Cr 267.716†	152.0	9.13	6.00%	[0.006]	mg/L
Cr 205.560†	113.1	4.66	4.12%	[0.006]	mg/L

Pb 220.353†	21.7	5.11	23.52%	[0.005] mg/L

Sequence No.: 3 — **Autosampler Location: 409**
Sample ID: ST2 — **Date Collected: 8/11/2014 11:53:01 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	468630.3	1168.06	0.25%	99.526	%
Ag 328.068†	4211.5	18.10	0.43%	[0.05]	mg/L
As 188.979†	19.8	3.39	17.14%	[0.050]	mg/L
As 193.696†	34.6	5.53	15.99%	[0.050]	mg/L
Ba 233.527†	2333.3	10.95	0.47%	[0.05]	mg/L
Cd 228.802†	513.5	6.95	1.35%	[0.05]	mg/L
Cd 226.502†	1645.3	11.76	0.71%	[0.05]	mg/L
Cr 267.716†	1249.0	10.88	0.87%	[0.05]	mg/L
Cr 205.560†	1051.6	17.60	1.67%	[0.05]	mg/L
Pb 220.353†	184.5	7.36	3.99%	[0.05]	mg/L
Pb 217.000†	51.7	4.30	8.33%	[0.05]	mg/L
Se 203.985†	20.5	6.22	30.32%	[0.050]	mg/L
Se 196.026†	29.8	5.35	17.94%	[0.050]	mg/L

Sequence No.: 4 — **Autosampler Location: 2**
Sample ID: ST3 — **Date Collected: 8/11/2014 11:54:16 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**
Wash Time: 20 — **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	461582.1	3658.61	0.79%	98.029	%
Ag 328.068†	42381.3	191.21	0.45%	[0.50]	mg/L
As 188.979†	251.7	6.40	2.54%	[0.50]	mg/L
As 193.696†	309.4	7.80	2.52%	[0.50]	mg/L
Ba 233.527†	23173.1	17.30	0.07%	[0.50]	mg/L
Cd 228.802†	5131.8	71.17	1.39%	[0.50]	mg/L
Cd 226.502†	16514.1	50.21	0.30%	[0.50]	mg/L
Cr 267.716†	12412.1	49.32	0.40%	[0.50]	mg/L
Cr 205.560†	10799.4	163.34	1.51%	[0.50]	mg/L
Pb 220.353†	1893.0	31.93	1.69%	[0.50]	mg/L
Pb 217.000†	441.0	7.61	1.72%	[0.50]	mg/L
Se 203.985†	261.7	4.26	1.63%	[0.50]	mg/L
Se 196.026†	295.4	5.96	2.02%	[0.50]	mg/L

Sequence No.: 5 — **Autosampler Location: 410**
Sample ID: ST4 — **Date Collected: 8/11/2014 11:55:32 AM**
Analyst: — **Data Type: Original**
Initial Sample Wt: — **Initial Sample Vol:**
Dilution: — **Sample Prep Vol:**

Wash Time: 20 Auto Dilution Factor: 1

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	319.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	464146.4	5215.10	1.12%	98.573	%
Ag 328.068†	85419.0	207.90	0.24%	[1.00]	mg/L
As 188.979†	510.3	4.80	0.94%	[1.00]	mg/L
As 193.696†	617.5	5.45	0.88%	[1.00]	mg/L
Ba 233.527†	46390.5	120.58	0.26%	[1.00]	mg/L
Cd 228.802†	10180.1	91.39	0.90%	[1.00]	mg/L
Cd 226.502†	33175.4	109.12	0.33%	[1.00]	mg/L
Cr 267.716†	24914.0	34.82	0.14%	[1.00]	mg/L
Cr 205.560†	21433.6	20.80	0.10%	[1.00]	mg/L
Pb 220.353†	3747.8	28.70	0.77%	[1.00]	mg/L
Pb 217.000†	872.9	7.40	0.85%	[1.00]	mg/L
Se 203.985†	543.9	5.26	0.97%	[1.00]	mg/L
Se 196.026†	589.6	8.09	1.37%	[1.00]	mg/L

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Sequence No.: 6 **Autosampler Location: 413**
Sample ID: ST5 **Date Collected: 8/11/2014 11:56:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	463793.9	5837.49	1.26%	98.499	%
Ba 233.527†	226452.0	333.56	0.15%	[5.00]	mg/L
Cd 228.802†	49543.8	84.00	0.17%	[5.00]	mg/L
Cd 226.502†	161643.3	169.14	0.10%	[5.00]	mg/L
Cr 267.716†	122192.2	142.49	0.12%	[5.00]	mg/L
Cr 205.560†	105071.8	139.82	0.13%	[5.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	85290	0.00000	0.999995	
As 188.979	4	Lin Thru 0	0.0	508.6	0.00000	0.999918	
As 193.696	4	Lin Thru 0	0.0	617.8	0.00000	0.999943	
Ba 233.527	5	Lin Thru 0	0.0	45340	0.00000	0.999987	
Cd 228.802	5	Lin Thru 0	0.0	9923	0.00000	0.999981	
Cd 226.502	5	Lin Thru 0	0.0	32370	0.00000	0.999985	
Cr 267.716	5	Lin Thru 0	0.0	24460	0.00000	0.999992	
Cr 205.560	5	Lin Thru 0	0.0	21040	0.00000	0.999989	
Pb 220.353	4	Lin Thru 0	0.0	3755	0.00000	0.999991	
Pb 217.000	3	Lin Thru 0	0.0	875.0	0.00000	0.999959	
Se 203.985	3	Lin Thru 0	0.0	539.6	0.00000	0.999928	
Se 196.026	3	Lin Thru 0	0.0	589.9	0.00000	1.000000	

User canceled analysis.

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Analysis Begun

√ MR 8/11/14

Start Time: 8/11/2014 11:57:59 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 401
Date Collected: 8/11/2014 11:58:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	489723.0	104.01	%	0.837				0.80%
Ag 328.068†	41794.3	0.49005	mg/L	0.001301	0.49005	mg/L	0.001301	0.27%
QC value within limits for Ag 328.068 Recovery = 98.01%								
As 188.979†	252.8	0.49696	mg/L	0.012378	0.49696	mg/L	0.012378	2.49%
QC value within limits for As 188.979 Recovery = 99.39%								
As 193.696†	307.2	0.49720	mg/L	0.009876	0.49720	mg/L	0.009876	1.99%
Ba 233.527†	22377.6	0.49352	mg/L	0.000973	0.49352	mg/L	0.000973	0.20%
QC value within limits for Ba 233.527 Recovery = 98.70%								
Cd 228.802†	5129.5	0.51695	mg/L	0.003264	0.51695	mg/L	0.003264	0.63%
QC value within limits for Cd 228.802 Recovery = 103.39%								
Cd 226.502†	16504.7	0.50991	mg/L	0.002029	0.50991	mg/L	0.002029	0.40%
Cr 267.716†	12020.0	0.49141	mg/L	0.001378	0.49141	mg/L	0.001378	0.28%
Cr 205.560†	10354.5	0.49223	mg/L	0.003602	0.49223	mg/L	0.003602	0.73%
QC value within limits for Cr 205.560 Recovery = 98.45%								
Pb 220.353†	1851.7	0.49308	mg/L	0.004343	0.49308	mg/L	0.004343	0.88%
QC value within limits for Pb 220.353 Recovery = 98.62%								
Pb 217.000†	436.9	0.49934	mg/L	0.013531	0.49934	mg/L	0.013531	2.71%
Se 203.985†	281.3	0.52138	mg/L	0.013043	0.52138	mg/L	0.013043	2.50%
Se 196.026†	315.0	0.53409	mg/L	0.017120	0.53409	mg/L	0.017120	3.21%
QC value within limits for Se 196.026 Recovery = 106.82%								

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 11:59:15 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501

Plasma On Time: 8/11/2014 8:42:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 12
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:

Autosampler Location: 1
Date Collected: 8/11/2014 11:59:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	485142.1	103.03	%	0.264				0.26%
Ag 328.068†	-41.0	-0.00048	mg/L	0.000619	-0.00048	mg/L	0.000619	128.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.1	-0.00607	mg/L	0.004243	-0.00607	mg/L	0.004243	69.87%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-3.2	-0.00519	mg/L	0.002762	-0.00519	mg/L	0.002762	53.22%
Ba 233.527†	13.1	0.00029	mg/L	0.000147	0.00029	mg/L	0.000147	50.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.9	0.00019	mg/L	0.000147	0.00019	mg/L	0.000147	76.44%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	5.2	0.00016	mg/L	0.000122	0.00016	mg/L	0.000122	76.83%
Cr 267.716†	2.2	0.00009	mg/L	0.000182	0.00009	mg/L	0.000182	200.70%
Cr 205.560†	-4.4	-0.00021	mg/L	0.000397	-0.00021	mg/L	0.000397	188.04%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-1.4	-0.00037	mg/L	0.001528	-0.00037	mg/L	0.001528	407.67%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	1.8	0.00210	mg/L	0.011220	0.00210	mg/L	0.011220	533.60%
Se 203.985†	-3.0	-0.00565	mg/L	0.010730	-0.00565	mg/L	0.010730	189.96%
Se 196.026†	3.8	0.00639	mg/L	0.009381	0.00639	mg/L	0.009381	146.70%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: PQL CHECK
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 408
Date Collected: 8/11/2014 12:00:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	464173.4	98.579	%	0.6272				0.64%
Ag 328.068†	396.9	0.00465	mg/L	0.000832	0.00465	mg/L	0.000832	17.87%
QC value within limits for Ag 328.068 Recovery = 93.08%								
As 188.979†	10.3	0.02031	mg/L	0.006787	0.02031	mg/L	0.006787	33.42%
QC value within limits for As 188.979 Recovery = 101.53%								
As 193.696†	7.7	0.01251	mg/L	0.004641	0.01251	mg/L	0.004641	37.09%
Ba 233.527†	116.8	0.00258	mg/L	0.000354	0.00258	mg/L	0.000354	13.75%
QC value within limits for Ba 233.527 Recovery = 128.81%								
Cd 228.802†	22.0	0.00221	mg/L	0.000533	0.00221	mg/L	0.000533	24.09%
QC value within limits for Cd 228.802 Recovery = 110.65%								
Cd 226.502†	66.1	0.00204	mg/L	0.000343	0.00204	mg/L	0.000343	16.77%
Cr 267.716†	153.0	0.00626	mg/L	0.000276	0.00626	mg/L	0.000276	4.42%
Cr 205.560†	122.3	0.00582	mg/L	0.000925	0.00582	mg/L	0.000925	15.90%
QC value within limits for Cr 205.560 Recovery = 96.93%								
Pb 220.353†	18.1	0.00482	mg/L	0.002427	0.00482	mg/L	0.002427	50.39%
QC value within limits for Pb 220.353 Recovery = 96.31%								
Pb 217.000†	9.2	0.01048	mg/L	0.006721	0.01048	mg/L	0.006721	64.11%
Se 203.985†	21.6	0.04006	mg/L	0.008665	0.04006	mg/L	0.008665	21.63%
Se 196.026†	28.5	0.04834	mg/L	0.002521	0.04834	mg/L	0.002521	5.21%
QC value within limits for Se 196.026 Recovery = 96.69%								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICS ELEM
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 403
Date Collected: 8/11/2014 12:01:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	476667.5	101.23	%	0.770				0.76%
Ag 328.068†	41606.9	0.48785	mg/L	0.000794	0.48785	mg/L	0.000794	0.16%
QC value within limits for Ag 328.068 Recovery = 97.57%								
As 188.979†	255.5	0.50232	mg/L	0.004665	0.50232	mg/L	0.004665	0.93%
QC value within limits for As 188.979 Recovery = 100.46%								
As 193.696†	256.7	0.41549	mg/L	0.011683	0.41549	mg/L	0.011683	2.81%
Ba 233.527†	21881.5	0.48258	mg/L	0.000939	0.48258	mg/L	0.000939	0.19%
QC value within limits for Ba 233.527 Recovery = 96.52%								
Cd 228.802†	5041.3	0.50806	mg/L	0.001542	0.50806	mg/L	0.001542	0.30%
QC value within limits for Cd 228.802 Recovery = 101.61%								
Cd 226.502†	15857.4	0.48992	mg/L	0.000247	0.48992	mg/L	0.000247	0.05%
Cr 267.716†	11671.4	0.47716	mg/L	0.000377	0.47716	mg/L	0.000377	0.08%
Cr 205.560†	9928.3	0.47197	mg/L	0.000167	0.47197	mg/L	0.000167	0.04%
QC value within limits for Cr 205.560 Recovery = 94.39%								
Pb 220.353†	1711.1	0.45565	mg/L	0.002781	0.45565	mg/L	0.002781	0.61%
QC value within limits for Pb 220.353 Recovery = 91.13%								
Pb 217.000†	430.7	0.49221	mg/L	0.001150	0.49221	mg/L	0.001150	0.23%
Se 203.985†	266.7	0.49435	mg/L	0.016020	0.49435	mg/L	0.016020	3.24%
Se 196.026†	297.4	0.50413	mg/L	0.010799	0.50413	mg/L	0.010799	2.14%
QC value within limits for Se 196.026 Recovery = 100.83%								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: ICS
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 404
Date Collected: 8/11/2014 12:03:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	479711.4	101.88	%	1.021				1.00%
Ag 328.068†	-31.0	-0.00036	mg/L	0.000270	-0.00036	mg/L	0.000270	74.28%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.5	0.00292	mg/L	0.005182	0.00292	mg/L	0.005182	177.51%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-54.1	-0.08751	mg/L	0.003812	-0.08751	mg/L	0.003812	4.36%
Ba 233.527†	46.3	0.00102	mg/L	0.000304	0.00102	mg/L	0.000304	29.82%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.0	-0.00000	mg/L	0.000191	-0.00000	mg/L	0.000191	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-18.2	-0.00056	mg/L	0.000181	-0.00056	mg/L	0.000181	32.16%
Cr 267.716†	17.0	0.00070	mg/L	0.000373	0.00070	mg/L	0.000373	53.61%
Cr 205.560†	-80.3	-0.00382	mg/L	0.000223	-0.00382	mg/L	0.000223	5.84%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-40.4	-0.01076	mg/L	0.000732	-0.01076	mg/L	0.000732	6.80%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	15.3	0.01748	mg/L	0.008152	0.01748	mg/L	0.008152 46.63%
Se 203.985†	-31.4	-0.05822	mg/L	0.017965	-0.05822	mg/L	0.017965 30.86%
Se 196.026†	-21.2	-0.03597	mg/L	0.003439	-0.03597	mg/L	0.003439 9.56%

QC value within limits for Se 196.026 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: MB-14674
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 301
Date Collected: 8/11/2014 12:04:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14674

Analyte	Back Pressure	Flow
All	320.0 kPa	0.55 L/min

MR. 11 8/11/14

Mean Data: MB-14674

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	431816.2	91.707	%	0.8525				0.93%
Ag 328.068†	-1.4	-0.00002	mg/L	0.000380	-0.00002	mg/L	0.000380	>999.9%
As 188.979†	-1.8	-0.00346	mg/L	0.005793	-0.00346	mg/L	0.005793	167.57%
As 193.696†	-2.5	-0.00408	mg/L	0.007246	-0.00408	mg/L	0.007246	177.77%
Ba 233.527†	23.4	0.00052	mg/L	0.000830	0.00052	mg/L	0.000830	160.72%
Cd 228.802†	2.8	0.00028	mg/L	0.000488	0.00028	mg/L	0.000488	174.66%
Cd 226.502†	-5.1	-0.00016	mg/L	0.000055	-0.00016	mg/L	0.000055	34.97%
Cr 267.716†	17.7	0.00072	mg/L	0.000036	0.00072	mg/L	0.000036	4.97%
Cr 205.560†	-12.8	-0.00061	mg/L	0.000528	-0.00061	mg/L	0.000528	86.61%
Pb 220.353†	9.4	0.00251	mg/L	0.002133	0.00251	mg/L	0.002133	84.84%
Pb 217.000†	3.2	0.00371	mg/L	0.009106	0.00371	mg/L	0.009106	245.76%
Se 203.985†	-6.3	-0.01161	mg/L	0.017826	-0.01161	mg/L	0.017826	153.58%
Se 196.026†	-0.1	-0.00013	mg/L	0.011034	-0.00013	mg/L	0.011034	>999.9%

Sequence No.: 17
Sample ID: LCS-14674
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 302
Date Collected: 8/11/2014 12:05:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LCS-14674

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

MR. 11 8/11/14

Mean Data: LCS-14674

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	429714.1	91.261	%	0.4021				0.44%
Ag 328.068†	6353.4	0.07450	mg/L	0.000174	0.07450	mg/L	0.000174	0.23%
As 188.979†	229.7	0.45165	mg/L	0.004525	0.45165	mg/L	0.004525	1.00%
As 193.696†	280.0	0.45312	mg/L	0.005211	0.45312	mg/L	0.005211	1.15%
Ba 233.527†	20860.5	0.46006	mg/L	0.000082	0.46006	mg/L	0.000082	0.02%
Cd 228.802†	4586.3	0.46221	mg/L	0.002720	0.46221	mg/L	0.002720	0.59%
Cd 226.502†	14788.9	0.45691	mg/L	0.000865	0.45691	mg/L	0.000865	0.19%
Cr 267.716†	11490.1	0.46975	mg/L	0.001573	0.46975	mg/L	0.001573	0.33%
Cr 205.560†	9769.8	0.46443	mg/L	0.003172	0.46443	mg/L	0.003172	0.68%
Pb 220.353†	1646.3	0.43838	mg/L	0.004469	0.43838	mg/L	0.004469	1.02%
Pb 217.000†	382.2	0.43674	mg/L	0.004558	0.43674	mg/L	0.004558	1.04%
Se 203.985†	208.1	0.38562	mg/L	0.009322	0.38562	mg/L	0.009322	2.42%
Se 196.026†	260.9	0.44234	mg/L	0.007773	0.44234	mg/L	0.007773	1.76%

Matrix Recovery Check: LCS-14674

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09998	0.07450	0.000	mg/L	74.5
As 188.979	0.49654	0.45165	0.005	mg/L	91.0
As 193.696	0.49592	0.45312	0.005	mg/L	91.4
Ba 233.527	0.50052	0.46006	0.000	mg/L	91.9
Cd 228.802	0.50028	0.46221	0.003	mg/L	92.4
Cd 226.502	0.49984	0.45691	0.001	mg/L	91.4
Cr 267.716	0.50072	0.46975	0.002	mg/L	93.8
Cr 205.560	0.49939	0.46443	0.003	mg/L	93.0
Pb 220.353	0.50251	0.43838	0.004	mg/L	87.2
Pb 217.000	0.50371	0.43674	0.005	mg/L	86.6
Se 203.985	0.48839	0.38562	0.009	mg/L	79.4
Se 196.026	0.49987	0.44234	0.008	mg/L	88.5

User canceled analysis.

Analysis Begun

Start Time: 8/11/2014 12:06:50 PM **Plasma On Time: 8/11/2014 8:42:58 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\081114 B14683.sif
Batch ID: 081114 B14683
Results Data Set: 081114 B14683
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 38 **Autosampler Location: 318**
Sample ID: 1408395-003A 5X **Date Collected: 8/11/2014 12:06:50 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: 1408395-003A 5X

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: 1408395-003A 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	474839.5	100.84	%	0.333				0.33%
Ag 328.068†	41648.7	0.48834	mg/L	0.003655	0.48834	mg/L	0.003655	0.75%
As 188.979†	-5.6	-0.01105	mg/L	0.007072	-0.01105	mg/L	0.007072	64.02%
As 193.696†	-58.0	-0.09392	mg/L	0.006312	-0.09392	mg/L	0.006312	6.72%
Ba 233.527†	107731.4	2.3759	mg/L	0.00350	2.3759	mg/L	0.00350	0.15%
Cd 228.802†	-21.9	-0.00221	mg/L	0.000507	-0.00221	mg/L	0.000507	22.95%
Concentration less than lower limit for Cd 228.802. Lower limit: -0.002 mg/L.								
Cd 226.502†	-4552.4	-0.14065	mg/L	0.000369	-0.14065	mg/L	0.000369	0.26%
Cr 267.716†	456569.2	18.666	mg/L	0.0266	18.666	mg/L	0.0266	0.14%
Cr 205.560†	380249.3	18.076	mg/L	0.0215	18.076	mg/L	0.0215	0.12%
Pb 220.353†	-87.2	-0.02321	mg/L	0.002968	-0.02321	mg/L	0.002968	12.79%
Concentration less than lower limit for Pb 220.353. Lower limit: -0.005 mg/L.								
Pb 217.000†	8.1	0.00925	mg/L	0.004108	0.00925	mg/L	0.004108	44.43%
Se 203.985†	347.2	0.64352	mg/L	0.014503	0.64352	mg/L	0.014503	2.25%
Se 196.026†	-37.1	-0.06282	mg/L	0.004574	-0.06282	mg/L	0.004574	7.28%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								

Sequence No.: 39 **Autosampler Location: 319**
Sample ID: 1408395-003A 50X **Date Collected: 8/11/2014 12:08:03 PM**
Analyst: JORGE **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408395-003A 50X

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: 1408395-003A 50X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	489795.7	104.02	%	1.044				1.00%
Ag 328.068†	4152.0	0.04868	mg/L	0.001162	0.04868	mg/L	0.001162	2.39%
As 188.979†	-2.8	-0.00542	mg/L	0.002482	-0.00542	mg/L	0.002482	45.76%
As 193.696†	-10.8	-0.01746	mg/L	0.008090	-0.01746	mg/L	0.008090	46.35%
Ba 233.527†	11596.3	0.25575	mg/L	0.000875	0.25575	mg/L	0.000875	0.34%
Cd 228.802†	-4.0	-0.00040	mg/L	0.000528	-0.00040	mg/L	0.000528	131.00%
Cd 226.502†	-494.5	-0.01528	mg/L	0.000292	-0.01528	mg/L	0.000292	1.91%
Cr 267.716†	48966.3	2.0019	mg/L	0.00543	2.0019	mg/L	0.00543	0.27%
Cr 205.560†	41291.3	1.9629	mg/L	0.00922	1.9629	mg/L	0.00922	0.47%
Pb 220.353†	-6.0	-0.00159	mg/L	0.001414	-0.00159	mg/L	0.001414	89.12%
Pb 217.000†	4.1	0.00473	mg/L	0.005074	0.00473	mg/L	0.005074	107.34%
Se 203.985†	35.5	0.06580	mg/L	0.012421	0.06580	mg/L	0.012421	18.88%
Se 196.026†	-15.6	-0.02650	mg/L	0.004023	-0.02650	mg/L	0.004023	15.18%

Sequence No.: 40
Sample ID: 1408347-001A 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 320
Date Collected: 8/11/2014 12:09:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001A 5X

Analyte	Back Pressure	Flow
All	323.0 kPa	0.55 L/min

Mean Data: 1408347-001A 5X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	496971.6	105.54	%	0.016				0.02%
Ag 328.068†	-66.7	-0.00078	mg/L	0.000352	-0.00078	mg/L	0.000352	44.94%
As 188.979†	6.4	0.01259	mg/L	0.008914	0.01259	mg/L	0.008914	70.83%
As 193.696†	-22.6	-0.03663	mg/L	0.003053	-0.03663	mg/L	0.003053	8.34%
Ba 233.527†	39972.6	0.88157	mg/L	0.002391	0.88157	mg/L	0.002391	0.27%
Cd 228.802†	-1.1	-0.00011	mg/L	0.000233	-0.00011	mg/L	0.000233	210.14%
Cd 226.502†	-62.5	-0.00193	mg/L	0.000084	-0.00193	mg/L	0.000084	4.35%
Cr 267.716†	750.0	0.03066	mg/L	0.000410	0.03066	mg/L	0.000410	1.34%
Cr 205.560†	558.7	0.02656	mg/L	0.000369	0.02656	mg/L	0.000369	1.39%
Pb 220.353†	113.5	0.03023	mg/L	0.000960	0.03023	mg/L	0.000960	3.18%
Pb 217.000†	45.0	0.05139	mg/L	0.002148	0.05139	mg/L	0.002148	4.18%
Se 203.985†	-41.9	-0.07762	mg/L	0.007768	-0.07762	mg/L	0.007768	10.01%
Se 196.026†	-9.7	-0.01640	mg/L	0.013419	-0.01640	mg/L	0.013419	81.85%

Sequence No.: 41
Sample ID: 1408347-001AMS 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 321
Date Collected: 8/11/2014 12:10:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMS 5X

Analyte	Back Pressure	Flow
All	324.0 kPa	0.55 L/min

Mean Data: 1408347-001AMS 5X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	500522.4	106.30	%	0.106				0.10%
Ag 328.068†	1172.0	0.01374	mg/L	0.000184	0.01374	mg/L	0.000184	1.34%
As 188.979†	51.8	0.10186	mg/L	0.003490	0.10186	mg/L	0.003490	3.43%
As 193.696†	30.0	0.04855	mg/L	0.009224	0.04855	mg/L	0.009224	19.00%
Ba 233.527†	48746.4	1.0751	mg/L	0.00175	1.0751	mg/L	0.00175	0.16%
Cd 228.802†	908.3	0.09154	mg/L	0.000586	0.09154	mg/L	0.000586	0.64%
Cd 226.502†	2781.4	0.08593	mg/L	0.000181	0.08593	mg/L	0.000181	0.21%
Cr 267.716†	3045.1	0.12449	mg/L	0.000554	0.12449	mg/L	0.000554	0.44%
Cr 205.560†	2499.6	0.11883	mg/L	0.001463	0.11883	mg/L	0.001463	1.23%
Pb 220.353†	422.9	0.11262	mg/L	0.000488	0.11262	mg/L	0.000488	0.43%
Pb 217.000†	114.7	0.13107	mg/L	0.002217	0.13107	mg/L	0.002217	1.69%
Se 203.985†	19.6	0.03634	mg/L	0.013554	0.03634	mg/L	0.013554	37.30%
Se 196.026†	36.9	0.06257	mg/L	0.013746	0.06257	mg/L	0.013746	21.97%

Matrix Recovery Check: 1408347-001AMS 5X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09922	0.01374	0.000	mg/L	14.5
As 188.979	0.51259	0.10186	0.003	mg/L	17.9
As 193.696	0.46337	0.04855	0.009	mg/L	17.0
Ba 233.527	1.3816	1.0751	0.002	mg/L	38.7
Cd 228.802	0.49989	0.09154	0.001	mg/L	18.3
Cd 226.502	0.49807	0.08593	0.000	mg/L	17.6
Cr 267.716	0.53066	0.12449	0.001	mg/L	18.8
Cr 205.560	0.52656	0.11883	0.001	mg/L	18.5
Pb 220.353	0.53023	0.11262	0.000	mg/L	16.5
Pb 217.000	0.55139	0.13107	0.002	mg/L	15.9
Se 203.985	0.42238	0.03634	0.014	mg/L	22.8
Se 196.026	0.48360	0.06257	0.014	mg/L	15.8

Sequence No.: 42
Sample ID: 1408347-001AMSD 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 322
Date Collected: 8/11/2014 12:11:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001AMSD 5X

Analyte	Back Pressure	Flow
All	324.0 kPa	0.55 L/min

Mean Data: 1408347-001AMSD 5X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	504403.0	107.12	%	0.888				0.83%
Ag 328.068†	1270.2	0.01489	mg/L	0.000254	0.01489	mg/L	0.000254	1.70%
As 188.979†	50.6	0.09943	mg/L	0.001274	0.09943	mg/L	0.001274	1.28%
As 193.696†	23.0	0.03716	mg/L	0.004993	0.03716	mg/L	0.004993	13.44%
Ba 233.527†	40114.8	0.88471	mg/L	0.002909	0.88471	mg/L	0.002909	0.33%
Cd 228.802†	914.3	0.09214	mg/L	0.000788	0.09214	mg/L	0.000788	0.85%
Cd 226.502†	2821.2	0.08716	mg/L	0.001663	0.08716	mg/L	0.001663	1.91%
Cr 267.716†	3121.6	0.12762	mg/L	0.002692	0.12762	mg/L	0.002692	2.11%
Cr 205.560†	2591.6	0.12320	mg/L	0.001743	0.12320	mg/L	0.001743	1.41%
Pb 220.353†	406.5	0.10826	mg/L	0.001646	0.10826	mg/L	0.001646	1.52%
Pb 217.000†	115.8	0.13239	mg/L	0.005128	0.13239	mg/L	0.005128	3.87%
Se 203.985†	20.6	0.03812	mg/L	0.013625	0.03812	mg/L	0.013625	35.74%
Se 196.026†	41.7	0.07070	mg/L	0.009459	0.07070	mg/L	0.009459	13.38%

Matrix Recovery Check: 1408347-001AMSD 5X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09922	0.01489	0.000	mg/L	15.7
As 188.979	0.51259	0.09943	0.001	mg/L	17.4

As 193.696	0.46337	0.03716	0.005	mg/L	14.8
Ba 233.527	1.3816	0.88471	0.003	mg/L	0.6
Cd 228.802	0.49989	0.09214	0.001	mg/L	18.5
Cd 226.502	0.49807	0.08716	0.002	mg/L	17.8
Cr 267.716	0.53066	0.12762	0.003	mg/L	19.4
Cr 205.560	0.52656	0.12320	0.002	mg/L	19.3
Pb 220.353	0.53023	0.10826	0.002	mg/L	15.6
Pb 217.000	0.55139	0.13239	0.005	mg/L	16.2
Se 203.985	0.42238	0.03812	0.014	mg/L	23.1
Se 196.026	0.48360	0.07070	0.009	mg/L	17.4

Sequence No.: 43
Sample ID: 1408347-001APS 5X
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 323
Date Collected: 8/11/2014 12:13:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408347-001APS 5X

Analyte	Back Pressure	Flow
All	324.0 kPa	0.55 L/min

Mean Data: 1408347-001APS 5X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	504897.1	107.23	%	0.770				0.72%
Ag 328.068†	6412.1	0.07518	mg/L	0.000065	0.07518	mg/L	0.000065	0.09%
As 188.979†	233.4	0.45883	mg/L	0.009069	0.45883	mg/L	0.009069	1.98%
As 193.696†	251.6	0.40722	mg/L	0.003200	0.40722	mg/L	0.003200	0.79%
Ba 233.527†	59223.0	1.3061	mg/L	0.00336	1.3061	mg/L	0.00336	0.26%
Cd 228.802†	4485.3	0.45203	mg/L	0.003384	0.45203	mg/L	0.003384	0.75%
Cd 226.502†	14054.6	0.43422	mg/L	0.000273	0.43422	mg/L	0.000273	0.06%
Cr 267.716†	11342.6	0.46372	mg/L	0.001280	0.46372	mg/L	0.001280	0.28%
Cr 205.560†	9648.5	0.45867	mg/L	0.003951	0.45867	mg/L	0.003951	0.86%
Pb 220.353†	1692.2	0.45061	mg/L	0.003668	0.45061	mg/L	0.003668	0.81%
Pb 217.000†	419.1	0.47900	mg/L	0.016298	0.47900	mg/L	0.016298	3.40%
Se 203.985†	218.3	0.40465	mg/L	0.026767	0.40465	mg/L	0.026767	6.61%
Se 196.026†	264.5	0.44846	mg/L	0.000540	0.44846	mg/L	0.000540	0.12%

Matrix Recovery Check: 1408347-001APS 5X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09922	0.07518	0.000	mg/L	76.0
As 188.979	0.51259	0.45883	0.009	mg/L	89.2
As 193.696	0.46337	0.40722	0.003	mg/L	88.8
Ba 233.527	1.3816	1.3061	0.003	mg/L	84.9
Cd 228.802	0.49989	0.45203	0.003	mg/L	90.4
Cd 226.502	0.49807	0.43422	0.000	mg/L	87.2
Cr 267.716	0.53066	0.46372	0.001	mg/L	86.6
Cr 205.560	0.52656	0.45867	0.004	mg/L	86.4
Pb 220.353	0.53023	0.45061	0.004	mg/L	84.1
Pb 217.000	0.55139	0.47900	0.016	mg/L	85.5
Se 203.985	0.42238	0.40465	0.027	mg/L	96.5
Se 196.026	0.48360	0.44846	0.001	mg/L	93.0

Sequence No.: 44
Sample ID: BLANK
Analyst: JORGE
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 12
Date Collected: 8/11/2014 12:14:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: BLANK

Analyte	Back Pressure	Flow

All 323.0 kPa 0.55 L/min

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	483622.2	102.71	%	0.508				0.49%
Ag 328.068†	-20.7	-0.00024	mg/L	0.000363	-0.00024	mg/L	0.000363	149.62%
As 188.979†	-1.5	-0.00286	mg/L	0.009605	-0.00286	mg/L	0.009605	335.84%
As 193.696†	-0.3	-0.00051	mg/L	0.004606	-0.00051	mg/L	0.004606	899.63%
Ba 233.527†	8.9	0.00020	mg/L	0.000436	0.00020	mg/L	0.000436	223.52%
Cd 228.802†	2.4	0.00024	mg/L	0.000183	0.00024	mg/L	0.000183	75.41%
Cd 226.502†	-2.9	-0.00009	mg/L	0.000118	-0.00009	mg/L	0.000118	133.33%
Cr 267.716†	4.8	0.00020	mg/L	0.000212	0.00020	mg/L	0.000212	108.34%
Cr 205.560†	-15.0	-0.00072	mg/L	0.000700	-0.00072	mg/L	0.000700	97.86%
Pb 220.353†	5.5	0.00146	mg/L	0.000584	0.00146	mg/L	0.000584	39.89%
Pb 217.000†	4.8	0.00549	mg/L	0.008607	0.00549	mg/L	0.008607	156.70%
Se 203.985†	3.6	0.00670	mg/L	0.017551	0.00670	mg/L	0.017551	261.89%
Se 196.026†	5.0	0.00848	mg/L	0.014509	0.00848	mg/L	0.014509	171.03%

SWG 8/11/14

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Sequence No.: 45
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/11/2014 12:15:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	324.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	496537.1	105.45	%	1.427				1.35%
Ag 328.068†	39955.2	0.46849	mg/L	0.000306	0.46849	mg/L	0.000306	0.07%
QC value within limits for Ag 328.068 Recovery = 93.70%								
As 188.979†	239.1	0.47003	mg/L	0.015509	0.47003	mg/L	0.015509	3.30%
QC value within limits for As 188.979 Recovery = 94.01%								
As 193.696†	292.1	0.47271	mg/L	0.007251	0.47271	mg/L	0.007251	1.53%
Ba 233.527†	21822.6	0.48128	mg/L	0.001031	0.48128	mg/L	0.001031	0.21%
QC value within limits for Ba 233.527 Recovery = 96.26%								
Cd 228.802†	4783.5	0.48208	mg/L	0.005098	0.48208	mg/L	0.005098	1.06%
QC value within limits for Cd 228.802 Recovery = 96.42%								
Cd 226.502†	15560.3	0.48074	mg/L	0.001830	0.48074	mg/L	0.001830	0.38%
Cr 267.716†	11695.6	0.47814	mg/L	0.002063	0.47814	mg/L	0.002063	0.43%
Cr 205.560†	10058.8	0.47817	mg/L	0.005944	0.47817	mg/L	0.005944	1.24%
QC value within limits for Cr 205.560 Recovery = 95.63%								
Pb 220.353†	1774.4	0.47249	mg/L	0.007138	0.47249	mg/L	0.007138	1.51%
QC value within limits for Pb 220.353 Recovery = 94.50%								
Pb 217.000†	411.9	0.47070	mg/L	0.008735	0.47070	mg/L	0.008735	1.86%
Se 203.985†	254.5	0.47171	mg/L	0.005055	0.47171	mg/L	0.005055	1.07%
Se 196.026†	279.5	0.47381	mg/L	0.009904	0.47381	mg/L	0.009904	2.09%
QC value within limits for Se 196.026 Recovery = 94.76%								

All analyte(s) passed QC.

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Sequence No.: 46
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/11/2014 12:16:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow

All 323.0 kPa 0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	493661.9	104.84	%	0.827				0.79%
Ag 328.068†	-46.7	-0.00055	mg/L	0.000448	-0.00055	mg/L	0.000448	81.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.0	-0.00195	mg/L	0.008351	-0.00195	mg/L	0.008351	428.37%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-3.3	-0.00538	mg/L	0.002185	-0.00538	mg/L	0.002185	40.59%
Ba 233.527†	1.4	0.00003	mg/L	0.000163	0.00003	mg/L	0.000163	514.73%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-0.8	-0.00008	mg/L	0.000352	-0.00008	mg/L	0.000352	438.14%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.2	0.00007	mg/L	0.000050	0.00007	mg/L	0.000050	74.12%
Cr 267.716†	5.5	0.00022	mg/L	0.000375	0.00022	mg/L	0.000375	166.98%
Cr 205.560†	-3.3	-0.00016	mg/L	0.000578	-0.00016	mg/L	0.000578	371.91%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-0.7	-0.00020	mg/L	0.001910	-0.00020	mg/L	0.001910	972.26%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	4.7	0.00541	mg/L	0.008370	0.00541	mg/L	0.008370	154.62%
Se 203.985†	1.0	0.00192	mg/L	0.009458	0.00192	mg/L	0.009458	493.25%
Se 196.026†	-0.3	-0.00057	mg/L	0.013869	-0.00057	mg/L	0.013869	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/11/2014 12:18:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	323.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	492468.2	104.59	%	0.645				0.62%
Ag 328.068†	-4.8	-0.00006	mg/L	0.000067	-0.00006	mg/L	0.000067	118.94%
As 188.979†	-1.9	-0.00373	mg/L	0.005358	-0.00373	mg/L	0.005358	143.75%
As 193.696†	-2.2	-0.00362	mg/L	0.007155	-0.00362	mg/L	0.007155	197.55%
Ba 233.527†	20.3	0.00045	mg/L	0.000153	0.00045	mg/L	0.000153	34.22%
Cd 228.802†	3.8	0.00038	mg/L	0.000441	0.00038	mg/L	0.000441	114.60%
Cd 226.502†	2.1	0.00007	mg/L	0.000165	0.00007	mg/L	0.000165	248.56%
Cr 267.716†	1.4	0.00006	mg/L	0.000342	0.00006	mg/L	0.000342	596.33%
Cr 205.560†	-10.5	-0.00050	mg/L	0.000093	-0.00050	mg/L	0.000093	18.56%
Pb 220.353†	-1.1	-0.00029	mg/L	0.002111	-0.00029	mg/L	0.002111	739.07%
Pb 217.000†	5.1	0.00587	mg/L	0.004035	0.00587	mg/L	0.004035	68.70%
Se 203.985†	1.1	0.00195	mg/L	0.009061	0.00195	mg/L	0.009061	465.45%
Se 196.026†	2.6	0.00438	mg/L	0.020890	0.00438	mg/L	0.020890	476.52%

All analyte(s) passed QC.

Sequence No.: 48
Sample ID: DI RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 7
Date Collected: 8/11/2014 12:19:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: DI RINSE

Analyte	Back Pressure	Flow
All	322.0 kPa	0.55 L/min

Mean Data: DI RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	492066.4	104.50	%	0.432				0.41%
Ag 328.068†	-21.0	-0.00025	mg/L	0.000169	-0.00025	mg/L	0.000169	68.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.3	-0.00641	mg/L	0.002357	-0.00641	mg/L	0.002357	36.79%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.1	-0.00173	mg/L	0.003010	-0.00173	mg/L	0.003010	174.00%
Ba 233.527†	12.9	0.00028	mg/L	0.000166	0.00028	mg/L	0.000166	58.48%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.0	0.00010	mg/L	0.000248	0.00010	mg/L	0.000248	257.28%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	1.4	0.00004	mg/L	0.000068	0.00004	mg/L	0.000068	155.29%
Cr 267.716†	3.4	0.00014	mg/L	0.000419	0.00014	mg/L	0.000419	301.07%
Cr 205.560†	-7.6	-0.00036	mg/L	0.000667	-0.00036	mg/L	0.000667	185.88%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Pb 220.353†	-0.6	-0.00016	mg/L	0.002412	-0.00016	mg/L	0.002412	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	5.4	0.00619	mg/L	0.003058	0.00619	mg/L	0.003058	49.40%
Se 203.985†	1.0	0.00177	mg/L	0.006184	0.00177	mg/L	0.006184	350.13%
Se 196.026†	-1.0	-0.00172	mg/L	0.005027	-0.00172	mg/L	0.005027	292.09%
QC value within limits for Se 196.026 Recovery = Not calculated								

All analyte(s) passed QC.

8/11/14

Analytical Report
Lab Order: **1408893**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-001 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0043 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	11	1.0		wt%	1	R20686	8/19/2014 11:44:00 AM

Lab ID: 1408893-002 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0044 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	10	1.0		wt%	1	R20686	8/19/2014 11:44:00 AM

Lab ID: 1408893-003 **Collection Date:** 8/18/2014 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
PERCENT MOISTURE							Analyst: **cadg**
Percent Moisture	8.6	1.0		wt%	1	R20686	8/19/2014 11:44:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Soil Moisture/Correction Factor Benchsheet

ASTM-D2216-98 Date extracted: 8-19-14			Thermometer ID: P-MOIST THERM-4
Oven Name: Hephaestus	Analyst: cg		Thermometer Exp Date: 7/17/2015
Start time: 8-19-14 11:44am	Start Temp: 110C		Reviewed by: CJB 8/20/14
End time: 8-20-14 10:19am	End Temp: 110C		

HEAL #	Initial Wt (g)	Received Wt (g)	Tare	Tare & Wet Wt (g)	Tare & Dry Wt (g)	Net Wt (g)	Percent Moisture	Conversion Factor
Low Level Soil								#VALUE!
1408893-001a	31.8	38.91				7.1260		#VALUE!
1408893-002a	32.3	39.26				6.9760		#VALUE!
1408893-003a	32.0	38.60				6.6360		#VALUE!
MeOH Kits								#VALUE!
1408893-001a	25.9	37.98	1.00	2.00	2.00	12.0800	0.0000	0.8278
1408893-002a	25.9	38.79	1.00	2.00	2.00	12.8900	0.0000	0.7758
1408893-003a	25.8	39.56	1.00	2.00	2.00	13.7600	0.0000	0.7267
Pmoist								#VALUE!
1408893-001a			1.38	25.56	22.91		10.9595	#VALUE!
1408893-002a			1.34	21.36	19.27		10.4396	#VALUE!
1408893-003a			1.33	20.61	18.95		8.6100	#VALUE!

% Moisture = **((Tare & Wet Wt. - Tare & Dry Wt.) / ((Tare & Wet Wt) -Tare) * 100**

HEAL ID # 1408893-001a

$$\frac{25.56 - 22.91}{25.56 - 1.38} \times 100 = 10.9595\%$$

cg 8-20-14

Conv. Factor = **((10g / Net Wt.) /((100-% Moist) / 100))**

HEAL ID # 1408893-001a

$$\frac{10g}{12.08} = 0.8278$$

cg 8 20 14

This Document Has Been Approved For Use at HEAL on 3/7/2013 by: AF and CMS

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

V/NB 8/21/14

Prep Start Date: **8/20/2014 9:07:12 A**
Prep End Date: **8/20/2014 10:30:00**

Prep Batch ID: **14860** Prep Code: **5035_LOW** Technician: **Christina Gallegos**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

8-20-14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14860		Solid			5	0	0	5	1.000	8/20/2014	8/20/2014
LCS-14860		Solid			5	0	0	5	1.000	8/20/2014	8/20/2014
1408893-001A	FFOR-CF-0043	MeOH (Soil)			7.126	0	0	5	0.702	8/20/2014	8/20/2014
1408893-001AMS		MeOH (Soil)			7.15	0	0	5	0.699	8/20/2014	8/20/2014
1408893-001AMSD		MeOH (Soil)			7.1	0	0	5	0.704	8/20/2014	8/20/2014
1408893-002A	FFOR-CF-0044	MeOH (Soil)			6.976	0	0	5	0.717	8/20/2014	8/20/2014
1408893-003A	FFOR-CF-0045	MeOH (Soil)			6.636	0	0	5	0.753	8/20/2014	8/20/2014
1408994-001A	FFOR-CF-0046	MeOH (Soil)			7.555	0	0	5	0.662	8/20/2014	8/20/2014

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
V-11-8066	8260-5035 Low LCS	lcs/ms/msd	26422	Container-01 of 01	2	µL

4 JE 8/22/14

Analytical Report
Lab Order: **1408893**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-001 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0043 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14830	8/20/2014 9:23:17 AM
Motor Oil Range Organics (MRO)	ND	57		mg/Kg-dry	1	14830	8/20/2014 9:23:17 AM
Surr: DNOP	76.3	57.9-140		%REC	1	14830	8/20/2014 9:23:17 AM

Lab ID: 1408893-002 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0044 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14830	8/20/2014 10:53:56 AM
Motor Oil Range Organics (MRO)	ND	55		mg/Kg-dry	1	14830	8/20/2014 10:53:56 AM
Surr: DNOP	84.6	57.9-140		%REC	1	14830	8/20/2014 10:53:56 AM

Lab ID: 1408893-003 **Collection Date:** 8/18/2014 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	11		mg/Kg-dry	1	14830	8/20/2014 11:24:00 AM
Motor Oil Range Organics (MRO)	ND	54		mg/Kg-dry	1	14830	8/20/2014 11:24:00 AM
Surr: DNOP	82.2	57.9-140		%REC	1	14830	8/20/2014 11:24:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Prep Start Date: 8/19/2014 9:18:01 A
Prep End Date: 8/19/2014 12:52:06
Technician: Brenda Nieto

Prep Batch ID: **14830** Prep Code: **8015_S_PREP**

Initial Temp: **°C** Final Temp **°C**

BW 8.19.14

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	Factor	PrepStart	PrepEnd
MB-14830		Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
LCS-14830		Soil			10	0	0	10	0.985	8/19/2014	8/19/2014
1408468-001A	1a&1b West Wall	MeOH (Soil)			10.15	0	0	10	0.985	8/19/2014	8/19/2014
1408468-002A	North Wall 1a&1b	MeOH (Soil)			10.15	0	0	10	1.006	8/19/2014	8/19/2014
1408468-003A	Perimeter of Site 1a&1	MeOH (Soil)			9.94	0	0	10	1.005	8/19/2014	8/19/2014
1408468-004A	Center of Pit 1a&1b	MeOH (Soil)			9.95	0	0	10	0.998	8/19/2014	8/19/2014
1408468-005A	South Wall	MeOH (Soil)			10.02	0	0	10	0.989	8/19/2014	8/19/2014
1408468-006A	East Wall	MeOH (Soil)			10.11	0	0	10	1.000	8/19/2014	8/19/2014
1408893-001A	FFOR-CF-0043	MeOH (Soil)			10 9.93	0	0	10	1.000	8/19/2014	8/19/2014
1408893-001AMS		MeOH (Soil)			10 10.08	0	0	10	1.000	8/19/2014	8/19/2014
1408893-001AMSD		MeOH (Soil)			10 10.05	0	0	10	1.000	8/19/2014	8/19/2014
1408893-002A	FFOR-CF-0044	MeOH (Soil)			10 10.10	0	0	10	1.000	8/19/2014	8/19/2014
1408893-003A	FFOR-CF-0045	MeOH (Soil)			10 10.11	0	0	10	1.000	8/19/2014	8/19/2014
1408910-001A	BTM@10'	Soil			10 9.99	0	0	10	1.000	8/19/2014	8/19/2014
1408910-002A	4-Wall Composite @ 8	Soil			10 9.91	0	0	10	1.000	8/19/2014	8/19/2014
1408914-001A	13-006(700) B1@20'	Soil			~~10~~ 9.94	0	0	10	1.000	8/19/2014	8/19/2014
1408914-002A	~~13-006(700) B2@20'~~	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-003A	13-006(700) B3@20'	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-004A	13-006(700) B4@20'	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-005A	13-006(700) B5@20'	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-006A	13-006(700) B6@15'	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-007A	13-006(700) B7@20'	Soil			10	0	0	10	1.000	8/19/2014	8/19/2014
1408914-008A	13-006(700) B5@20'	Soil			10 9.94	0	0	10	1.000	8/19/2014	8/19/2014
1408917-002A	20140818405	Soil									

NOT USED

BW 8.19.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Sequence Print

BN 8.27.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
4	Unknown	0	1	200 PPM MO	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408893-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A <D>.dat	1
6	Unknown	0	1	1408893-001AMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A MS <D>.dat	1
7	Unknown	0	1	1408893-001AMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-001A MSD <D>.dat	1
8	Unknown	0	1	1408893-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-002A <D>.dat	1
9	Unknown	0	1	1408893-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408893-003A <D>.dat	1
10	Unknown	0	1	1408910-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408910-001A <D>.dat	1
11	Unknown	0	1	1408910-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408910-002A <D>.dat	1
12	Unknown	0	1	1408917-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408917-001A <D>.dat	1
13	Unknown	0	2	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
14	Unknown	0	1	1408917-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408917-001A <D>.dat	1
15	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
16	Unknown	0	1	1408740-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408740-002A <D>.dat	1
17	Unknown	0	1	MB-14859	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14859 <D>.dat	1
18	Unknown	0	1	LCS-14859	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14859 <D>.dat	1

-002A JR 8/22/14

-002A JR 8/22/14

-002A JR 8/22/14

-002A JR 8/22/14

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19	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
20	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
21	Unknown	0	1	MB-14858	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14858 <D>.dat	1
22	Unknown	0	1	LCS-14858	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14858 <D>.dat	1
23	Unknown	0	1	1408901-001B	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B <D>.dat	1
24	Unknown	0	1	1408901-001BMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B MS <D>.dat	1
25	Unknown	0	1	1408901-001BMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408901-001B MSD <D>.dat	1
26	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
27	Unknown	0	1	MB-14873	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14873 <D>.dat	1
28	Unknown	0	1	LCS-14873	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14873 <D>.dat	1
29	Unknown	0	1	1408A13-001C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C <D>.dat	1
30	Unknown	0	1	1408A13-001CMS	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C MS <D>.dat	1
31	Unknown	0	1	1408A13-001CMSD	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-001C MSD <D>.dat	1
32	Unknown	0	1	1408A13-003C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-003C <D>.dat	1
33	Unknown	0	1	1408A13-004C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-004C <D>.dat	1
34	Unknown	0	1	1408A13-005C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-005C <D>.dat	1
35	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
36	Unknown	0	1	1408A13-006C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-006C <D>.dat	1
37	Unknown	0	1	1408A13-007C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-007C <D>.dat	1

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BN 8-21-14

38	Unknown	0	1	1408A13-008C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-008C <D>.dat	1
39	Unknown	0	1	1408A13-009C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-009C <D>.dat	1
40	Unknown	0	1	1408A13-010C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-010C <D>.dat	1
41	Unknown	0	1	1408A13-011C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-011C <D>.dat	1
42	Unknown	0	1	1408A13-013C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-013C <D>.dat	1
43	Unknown	0	1	1408A13-014C	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408A13-014C <D>.dat	1
44	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
45	Unknown	0	1	MB-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\MB-14811 <D>.dat	1
46	Unknown	0	1	LCS-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCS-14811 <D>.dat	1
47	Unknown	0	1	LCSD-14811	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\LCSD-14811 <D>.dat	1
48	Unknown	0	1	1408715-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408715-001A <D>.dat	1
49	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
50	Unknown	0	1	1408715-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408715-002A <D>.dat	1
51	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
52	Unknown	0	1	1408759-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408759-002A <D>.dat	1
53	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
54	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
55	Unknown	0	1	1408759-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408759-002A <D>.dat	1
56	Unknown	0	1	1408914-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-001A <D>.dat	1

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57	Unknown	0	1	1408914-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-002A <D>.dat	1
58	Unknown	0	1	1408914-003A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-003A <D>.dat	1
59	Unknown	0	1	1408914-004A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-004A <D>.dat	1
60	Unknown	0	1	1408914-005A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-005A <D>.dat	1
61	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
62	Unknown	0	1	1408914-006A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-006A <D>.dat	1
63	Unknown	0	1	1408914-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-007A <D>.dat	1
64	Unknown	0	1	1408914-007A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-007A <D>.dat	1
65	Unknown	0	1	1408914-008A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408914-008A <D>.dat	1
66	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1
67	Unknown	0	1	1408986-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408986-001A <D>.dat	1
68	Unknown	0	1	1408987-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408987-001A <D>.dat	1
69	Unknown	0	1	1408988-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408988-001A <D>.dat	1
70	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
71	Unknown	0	1	1408994-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-001A <D>.dat	1
72	Unknown	0	1	1408994-002A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408994-002A <D>.dat	1
73	Unknown	0	1	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
74	Unknown	0	1	1408993-001A	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1408993-001A <D>.dat	1
75	Unknown	0	2	Conditioner	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1

WOT USED BN 8.21.14

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BN 8.21.14

76	Unknown	0	1	100 PPM CCV	DRO FID #2 081314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV <D>.dat	1

V

8/22/14

8015D DRO
Calibration Summary

Instrument: FID#2 Date: 08/13/14

Method: 8015D

Calibration Name: DRO FID#2 081314.met

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☒	☐	☐	☒	
MRO	☒	☐	☐	☒	
DNOP (Surr)	N/A	N/A	☐	☒	

Additional Notes:

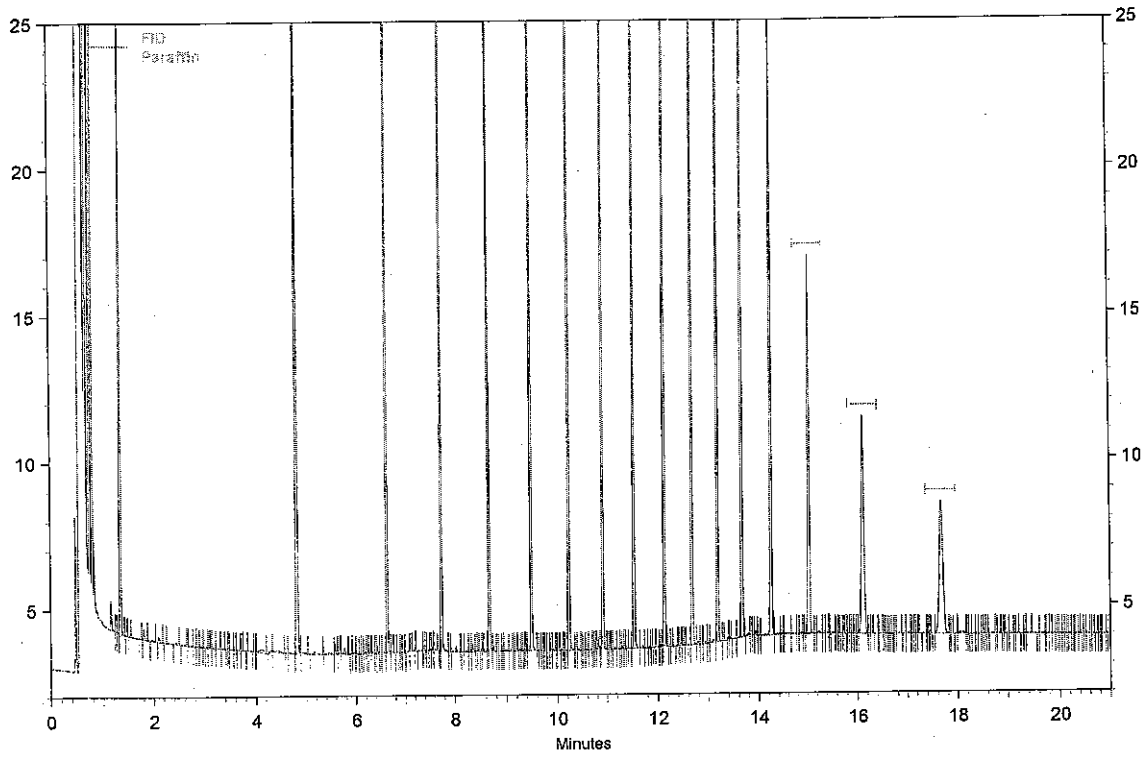
Analyst: Janice Easley

QA:

This Document Has Been Approved For Use at HEAL on 7/29/2013 by: ____ and ____.

Instument: **FID2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-20-14 7-44-31 AM.dat
Aquired: 8/20/2014 7:52:54 AM



FID Results

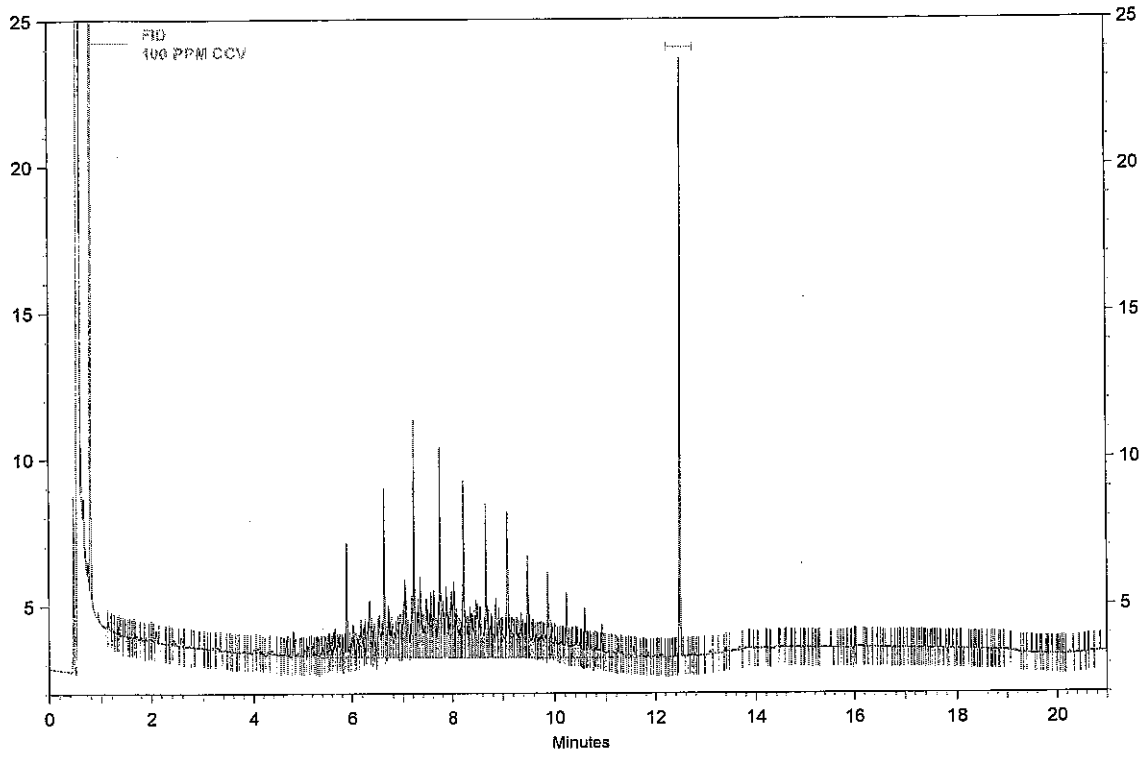
Name	Retention Time	Area	ug/ml
C08	1.34	54134	0.000
C10	4.81	70582	0.000
C12	6.63	71810	0.000
C14	7.74	73262	0.000
C16	8.67	74181	0.000
C18	9.49	74907	0.000
C20	10.23	76481	0.000
C22	10.91	75693	0.000
C24	11.54	75519	0.000
C26	12.13	77987	0.000
C28	12.67	78707	0.000
C30	13.18	74220	0.000
C32	13.66	59604	0.000
C34	14.24	42186	0.000
C36	15.03	31664	0.000
C38	16.11	26670	0.000
C40	17.67	23621	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-20-14 8-14-17 AM.dat
Aquired: 8/20/2014 8:22:40 AM



FID Results

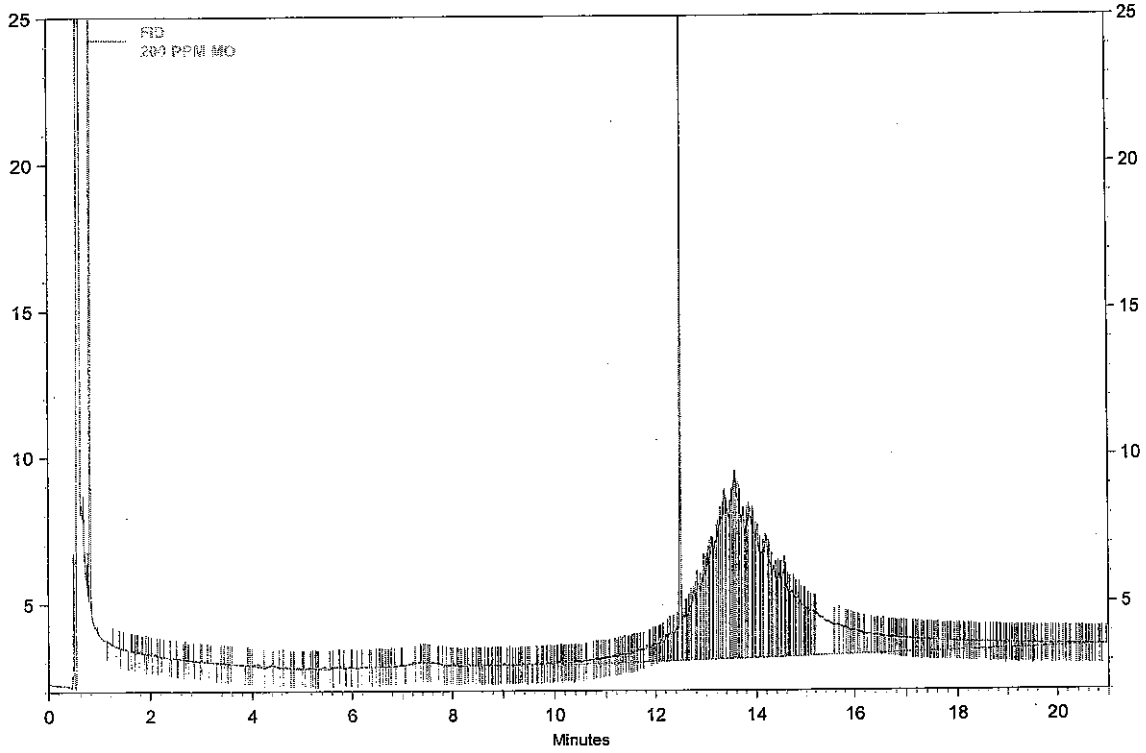
Name	Retention Time	Area	ug/ml
DNOP	12.48	23041	8.976
DRO		282861	104.090
MRO		3875	0.000

Analyst BN

Reviewed By

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-20-14 8-44-03 AM.dat
Aquired: 8/20/2014 8:53:07 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	38278	14.708
DRO		32155	12.505
MRO		487349	201.079

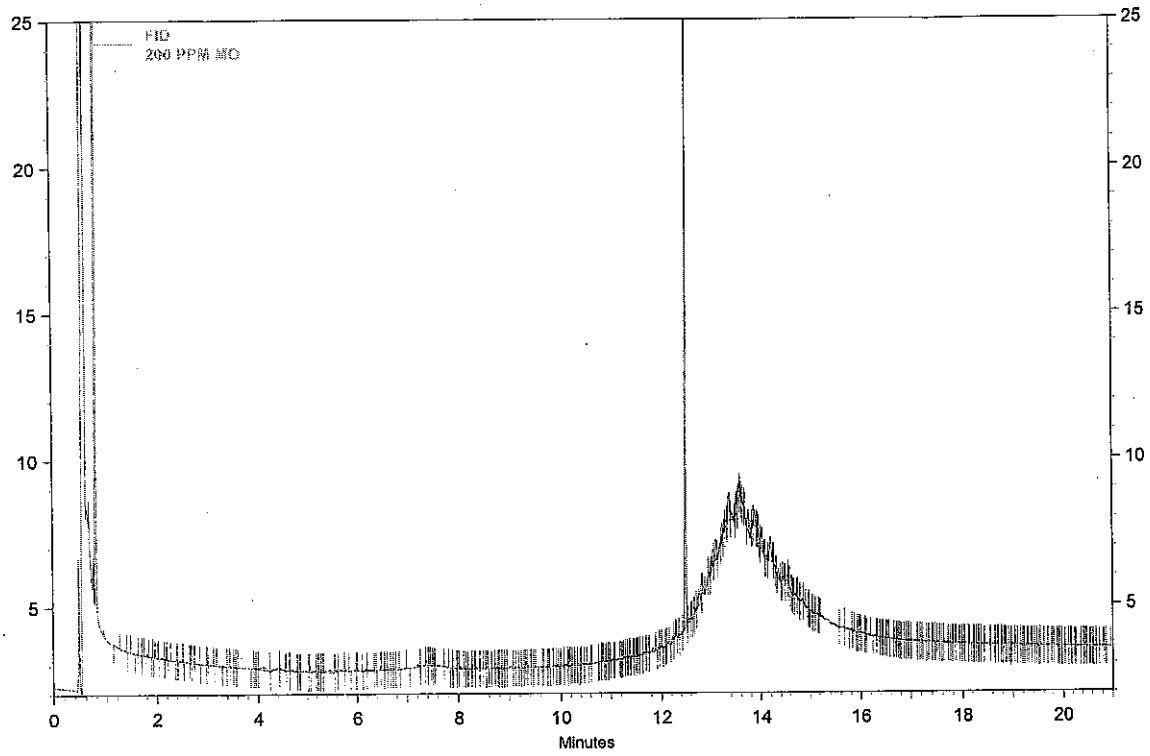
Analyst BN

Reviewed By AE

14.708
-12.135
2.573
+201.079
206.225 X100
200
=103.112 ✓

Instument: **FID2 (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Descritpion: **SV109-1531**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-20-14 8-44-03 AM.dat
Aquired: 8/20/2014 8:53:07 AM



FID Results

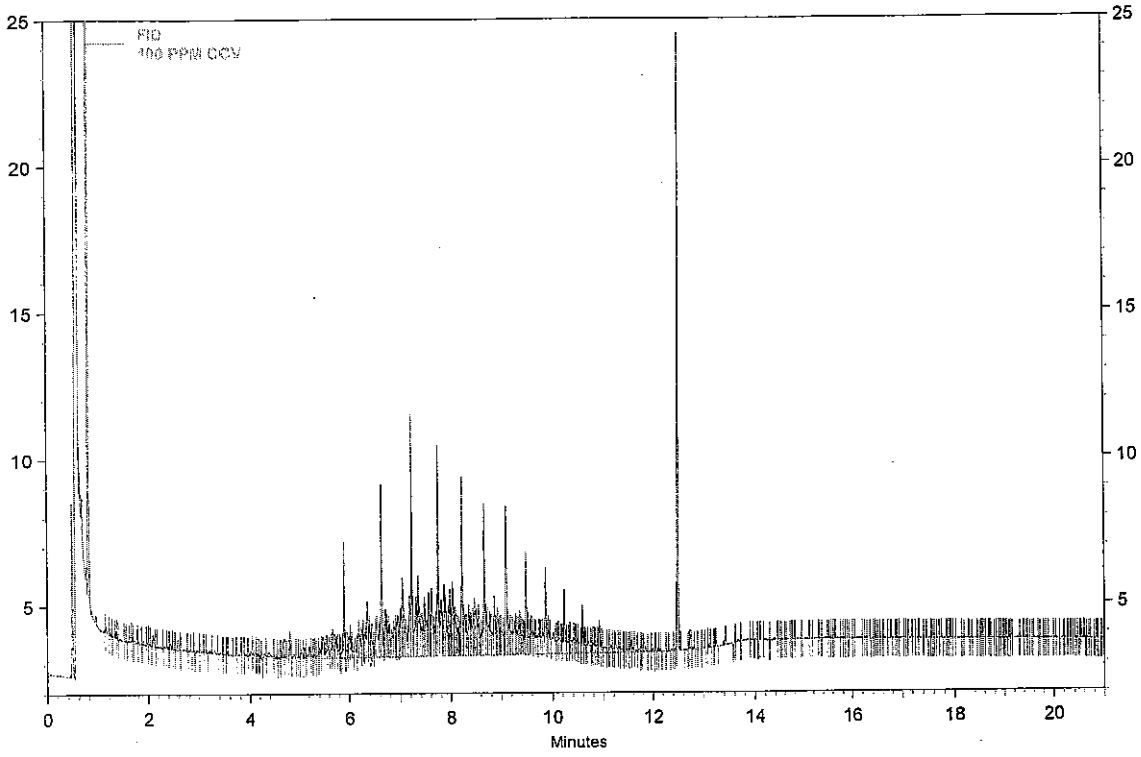
Name	Retention Time	Area	ug/ml
DNOP	12.48	31474	12.135
DRO		6011	2.997
MRO		21557	0.000

Analyst _____

Reviewed By _____

Instument: **FID2 (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Descritpion: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM CCV 08-20-14 5-46-59 PM.dat
Aquired: 8/20/2014 5:55:40 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	23215	9.041
DRO		280804	103.336
MRO		3294	0.000

Analyst BN

Reviewed By

Calibration Report

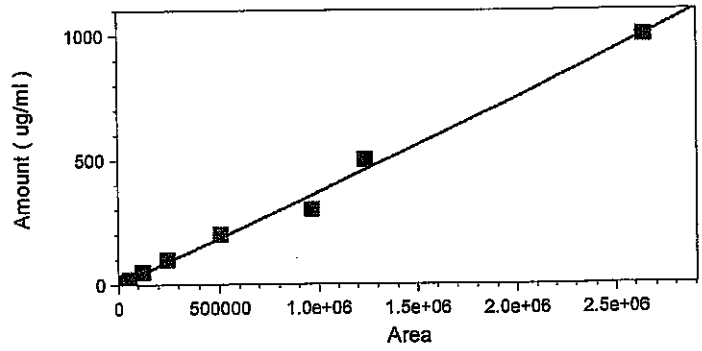
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

DRO (FID)
Average RF: 0.000346663 RF StDev: 8.44404e-005 RF %RSD: 24.3580
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.91807e-012x^2 + 0.000363445x + 0.812271
Goodness of fit (r^2): 0.993892

8/14/14

Jam 8/14/14

Group: DRO -ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	27005	32411	56634	121544	244238
RF	0.000148120	0.00030853722	0.000353144754	0.000411373658	0.0004094366
	718385484	5016198	034679	921872	96992278
Last Area					
Residual	-6.63141	-2.59809	-1.41457	4.92579	10.0677
Rep StDev					
Rep %RSD					
Rep 1 Area	27005	32411	56634	121544	244238
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

Amount	200	300	500	1000
Area	505776	964738	1236689	2640934
RF	0.000395431	0.00031096525	0.000404305366	0.000378653915
Last Area	969883901	6888399	992025	622276
Residual	13.8523	-56.9492	40.6687	-1.92124
Rep StDev				
Rep %RSD				
Rep 1 Area	505776	964738	1236689	2640934
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

Calibration Report

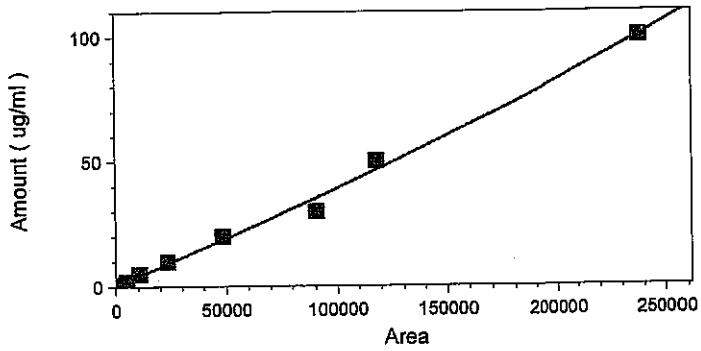
Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

DNOP (FID)
Average RF: 0.000417492 RF StDev: 3.65729e-005 RF %RSD: 8.76013
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.44160e-010x^2 + 0.000361222x + 0.523704
Goodness of fit (r^2): 0.994928

JZ 8/14/14

Jdm 8/14/14

Peak: DNOP -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	919	2333	4919	10680	23365
RF	0.000435255	0.00042863266	0.000406586704	0.000468164794	0.0004279905
	71273123	180883	614759	007491	84207147
Last Area					
Residual	-0.455874	-0.367764	-0.306464	0.590594	0.903049
Rep StDev					
Rep %RSD					
Rep 1 Area	919	2333	4919	10680	23365
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\80	H:\EZsemi\801	H:\EZsemi\8015	H:\EZsemi\8015	H:\EZsemi\801
	15dro\Data	5dro\Data	dro\Data	dro\Data	5dro\Data
	2014\FID#2\	2014\FID#2\Da	2014\FID#2\Dat	2014\FID#2\Dat	2014\FID#2\D
	Data\4 PPM	ta\10 PPM	a\20 PPM	a\50 PPM	ata\100 PPM
	08-13-14	08-13-14	08-13-14	08-13-14	08-13-14
	10-57-57	11-20-35	11-50-07	12-19-53	12-49-56
	AM.dat	AM.dat	AM.dat	PM.dat	PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014
	8:06:32 AM	8:06:50 AM	8:07:05 AM	8:07:17 AM	8:07:29 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:54 AM
User: System
Instrument: FID 2 (Offline)

Amount	20	30	50	100
Area	48359	90478	117643	237733
RF	0.000413573	0.00033157231	0.000425014663	0.000420639961
	481668355	5922103	005874	637636
Last Area				
Residual	1.43697	-5.20512	3.6019	-0.197294
Rep StDev				
Rep %RSD				
Rep 1 Area	48359	90478	117643	237733
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/14/2014 8:07:45 AM	8/14/2014 8:08:00 AM	8/14/2014 8:08:12 AM	8/14/2014 8:08:25 AM

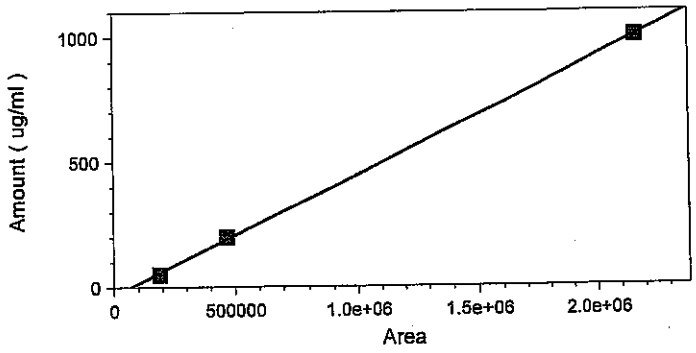
Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
Print Time: 8/14/2014 8:11:48 AM
User: System
Instrument: FID 2 (Offline)

MRO (FID)
Average RF: 0.000386051 RF StDev: 0.000105388 RF %RSD: 27.2989
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000478515x - 32.1253
Goodness of fit (r^2): 0.999719

JE 8/14/14 dam 8/14/14

Group: MRO -- ESTD -- FID



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	188011	466019	2159622
RF	0.000265941	0.00042916705	0.000463043995
	886378988	1128817	662204
Last Area Residual	-7.8409	9.128	-1.2871
Rep StDev			
Rep %RSD			
Rep 1 Area	188011	466019	2159622
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO 08-13-14 4-17-38 PM.dat	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/14/2014 8:08:47 AM	8/14/2014 8:09:01 AM	8/14/2014 8:09:19 AM

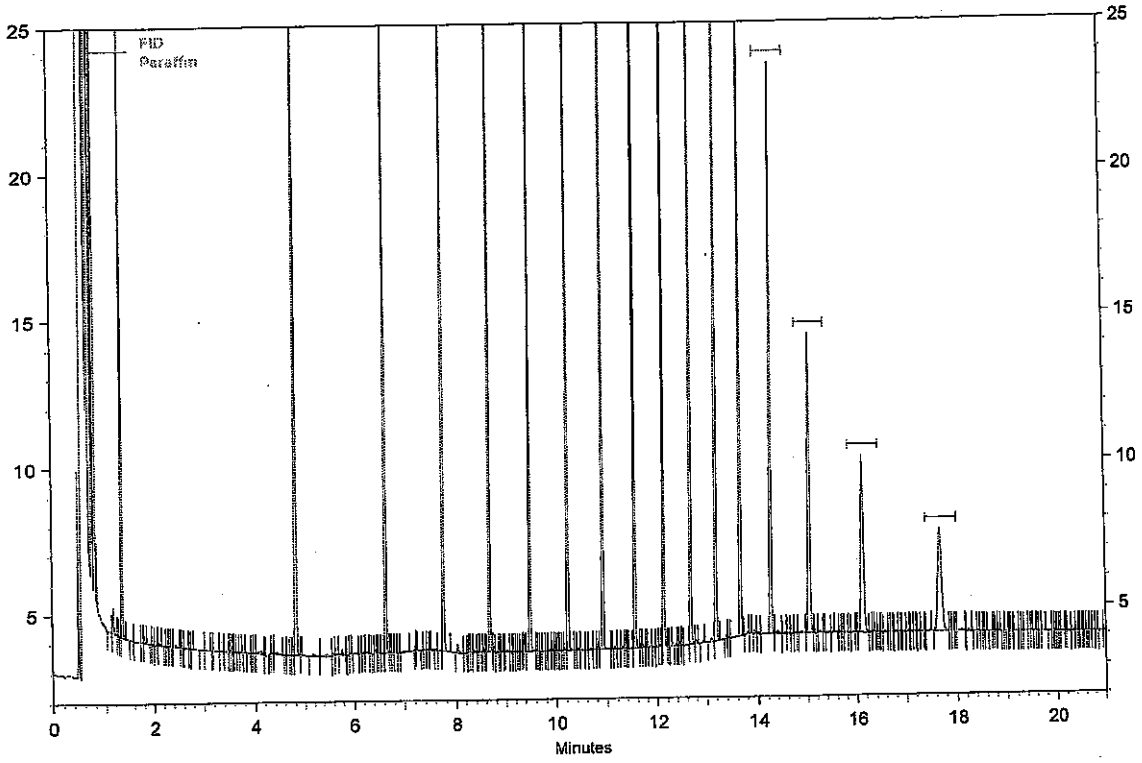
Sequence Print

JR 8/15/14 I dam 8/14/14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditioner	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin <D>.dat	1
3	Unknown	0	1	4 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM <D>.dat	1
4	Unknown	0	1	10 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM <D>.dat	1
5	Unknown	0	1	20 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM <D>.dat	1
6	Unknown	0	1	50 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM <D>.dat	1
7	Unknown	0	1	100 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM <D>.dat	1
8	Unknown	0	1	200 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM <D>.dat	1
9	Unknown	0	1	300 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM <D>.dat	1
10	Unknown	0	1	500 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM <D>.dat	1
11	Unknown	0	1	1,000 PPM	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM <D>.dat	1
12	Unknown	0	1	100 PPM ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV <D>.dat	1
13	Unknown	0	1	50 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO <D>.dat	1
14	Unknown	0	1	200 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO <D>.dat	1
15	Unknown	0	1	1,000 PPM MO	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO <D>.dat	1
16	Unknown	0	1	200 PPM MO ICV	DRO FID #2 072314.met	H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV <D>.dat	1

nstument: **FID 2 (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Descritpion: **SV109-1527**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 072314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\Paraffin 08-13-14 10-05-56 AM.dat
Aquired: 8/13/2014 10:13:00 AM



FID Results

Name	Retention Time	Area	ug/ml
C08	1.34	44427	0.000
C10	4.81	53253	0.000
C12	6.63	54425	0.000
C14	7.74	56231	0.000
C16	8.67	57801	0.000
C18	9.49	58746	0.000
C20	10.23	60486	0.000
C22	10.91	60785	0.000
C24	11.54	60762	0.000
C26	12.12	63147	0.000
C28	12.67	64114	0.000
C30	13.18	60489	0.000
C32	13.66	48564	0.000
C34	14.24	34124	0.000
C36	15.03	25415	0.000
C38	16.12	21657	0.000
C40	17.67	18490	0.000

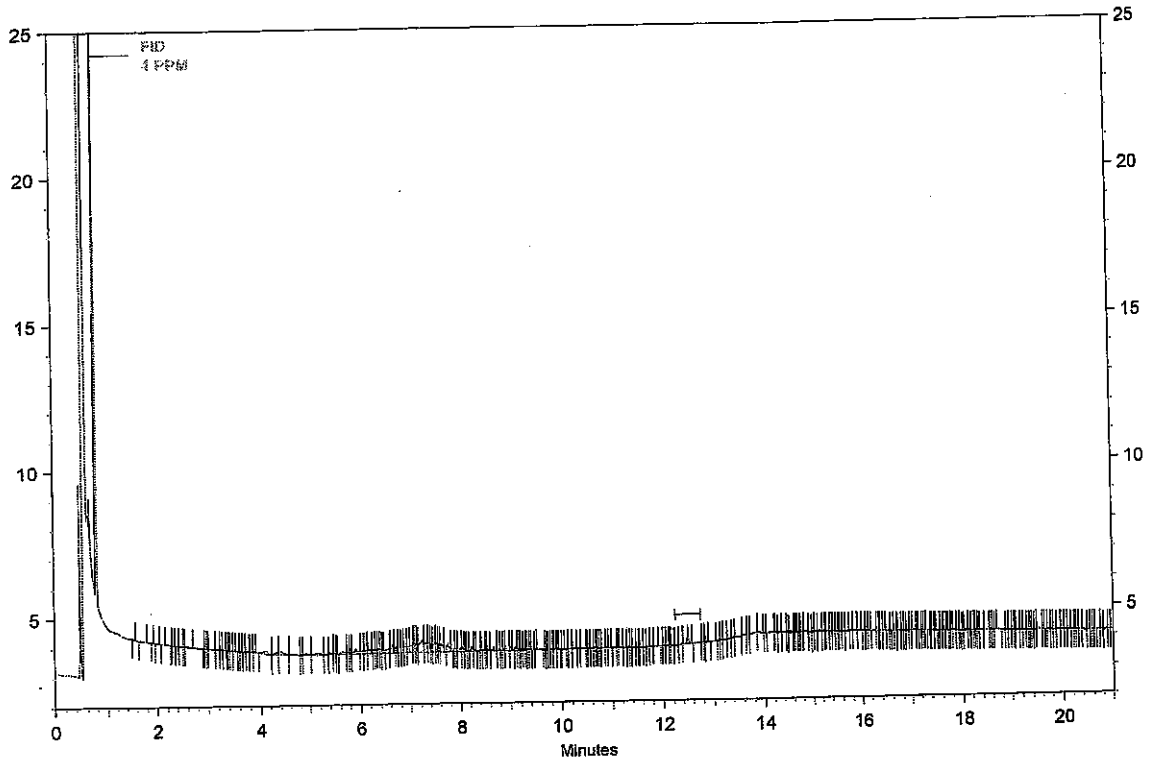
Analyst JL

Reviewed By dam

updated ret. times

Instument: **FID 2 (Offline)** Vial #: **3** User: **System**
Sample ID: **4 PPM** Data Descritpion: **SV109-1533**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\4 PPM 08-13-14 10-57-57 AM.dat
Aquired: 8/13/2014 10:59:11 AM



FID Results

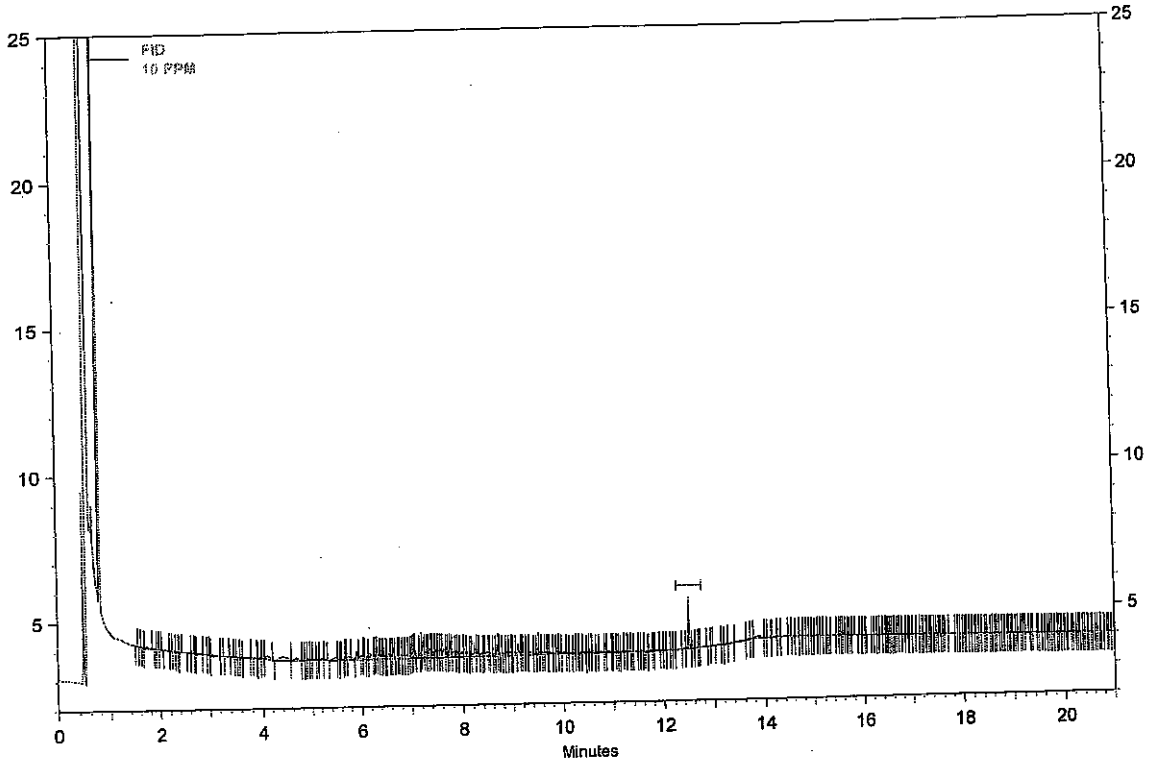
Name	Retention Time	Area	ug/ml
DNOP	12.48	919	0.400 CAL
DRO		27005	4.000 CAL

Analyst EV

Reviewed By dam

Instument: **FID 2 (Offline)** Vial #: **4** User: **System**
Sample ID: **10 PPM** Data Descritpion: **SV109-1534**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\10 PPM 08-13-14 11-20-35 AM.dat
Aquired: 8/13/2014 11:28:44 AM



FID Results

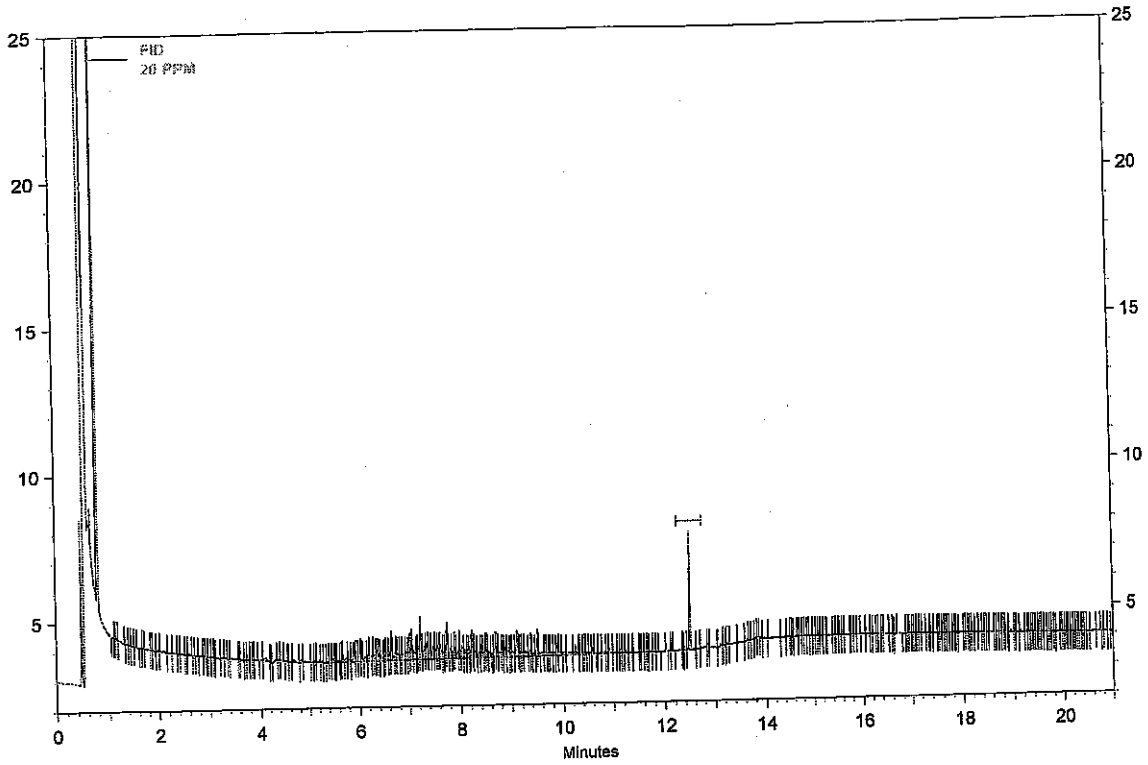
Name	Retention Time	Area	ug/ml
DNOP	12.48	2333	1.000 CAL
DRO		32411	10.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **5** User: **System**
Sample ID: **20 PPM** Data Descritpion: **SV109-1535**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\20 PPM 08-13-14 11-50-07 AM.dat
Aquired: 8/13/2014 11:58:42 AM



FID Results

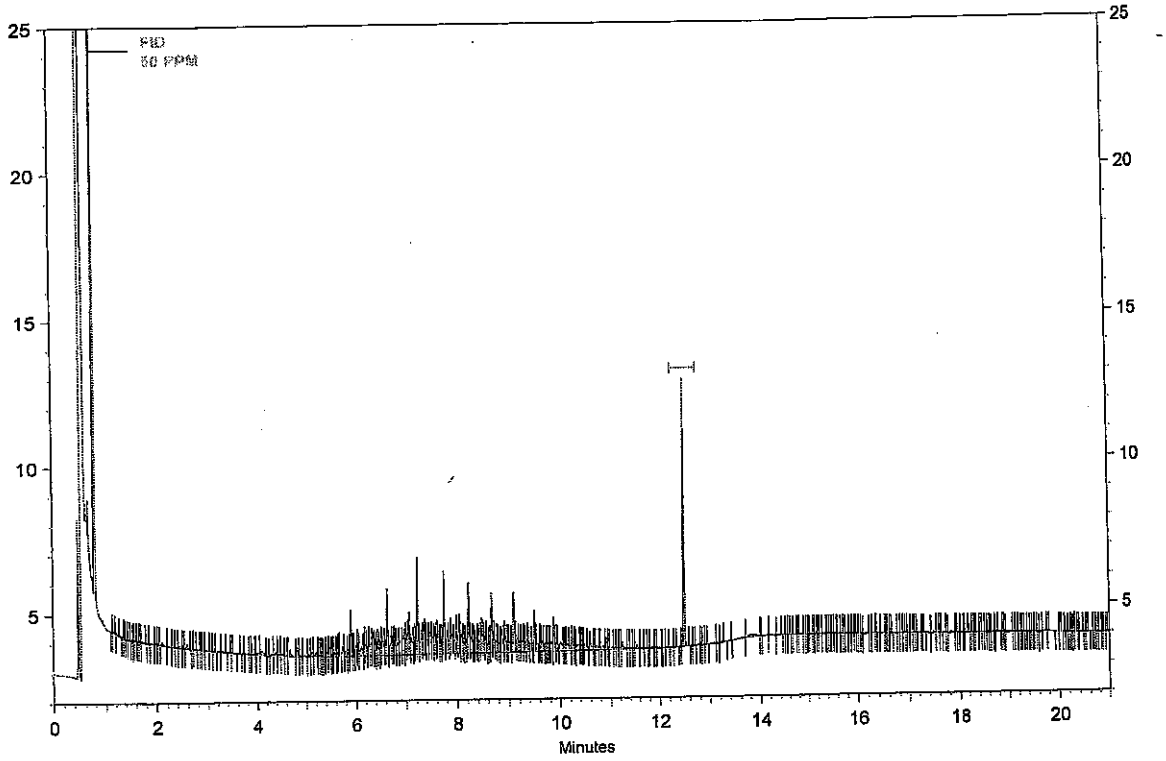
Name	Retention Time	Area	ug/ml
DNOP	12.48	4919	2.000 CAL
DRO		56634	20.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **6** User: **System**
Sample ID: **50 PPM** Data Descritpion: **SV109-1536**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM 08-13-14 12-19-53 PM.dat
Aquired: 8/13/2014 12:28:33 PM



FID Results

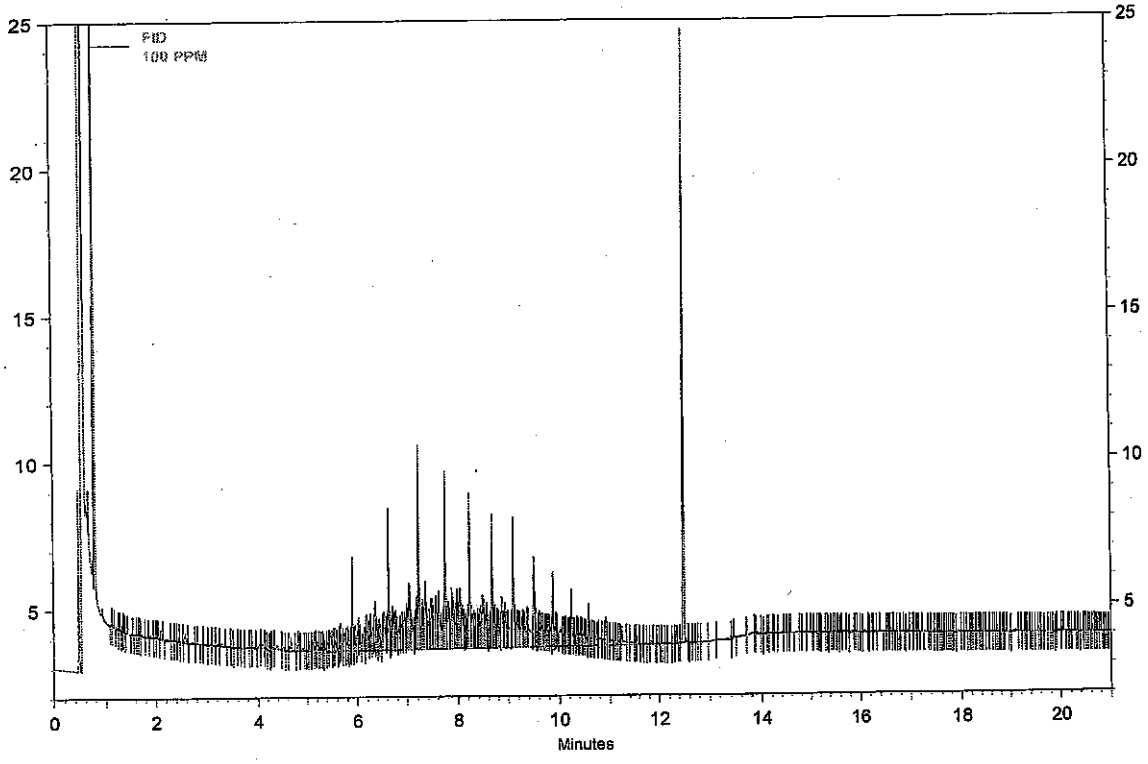
Name	Retention Time	Area	ug/ml
DNOP	12.48	10680	5.000 CAL
DRO		121544	50.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **7** User: **System**
Sample ID: **100 PPM** Data Descritpion: **SV109-1537**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM 08-13-14 12-49-56 PM.dat
Aquired: 8/13/2014 12:58:14 PM



FID Results

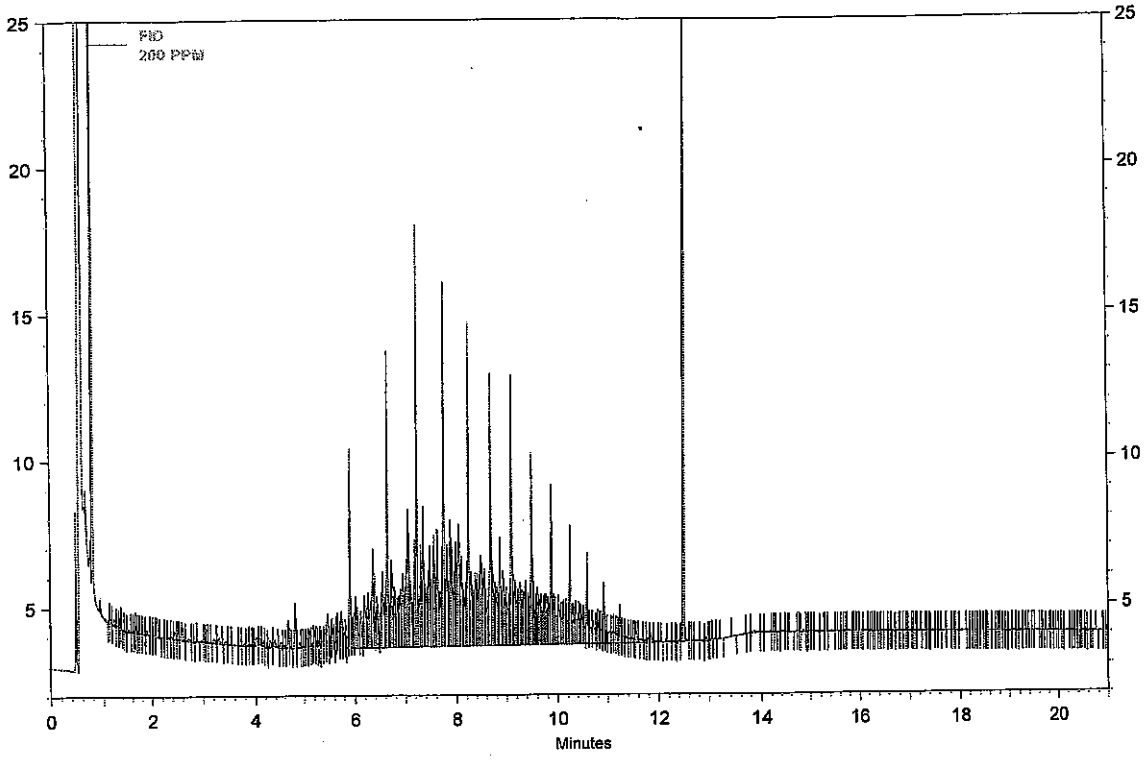
Name	Retention Time	Area	ug/ml
DNOP	12.48	23365	10.000 CAL
DRO		244238	100.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **8** User: **System**
Sample ID: **200 PPM** Data Descritpion: **SV109-1538**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM 08-13-14 1-19-26 PM.dat
Aquired: 8/13/2014 1:28:06 PM



FID Results

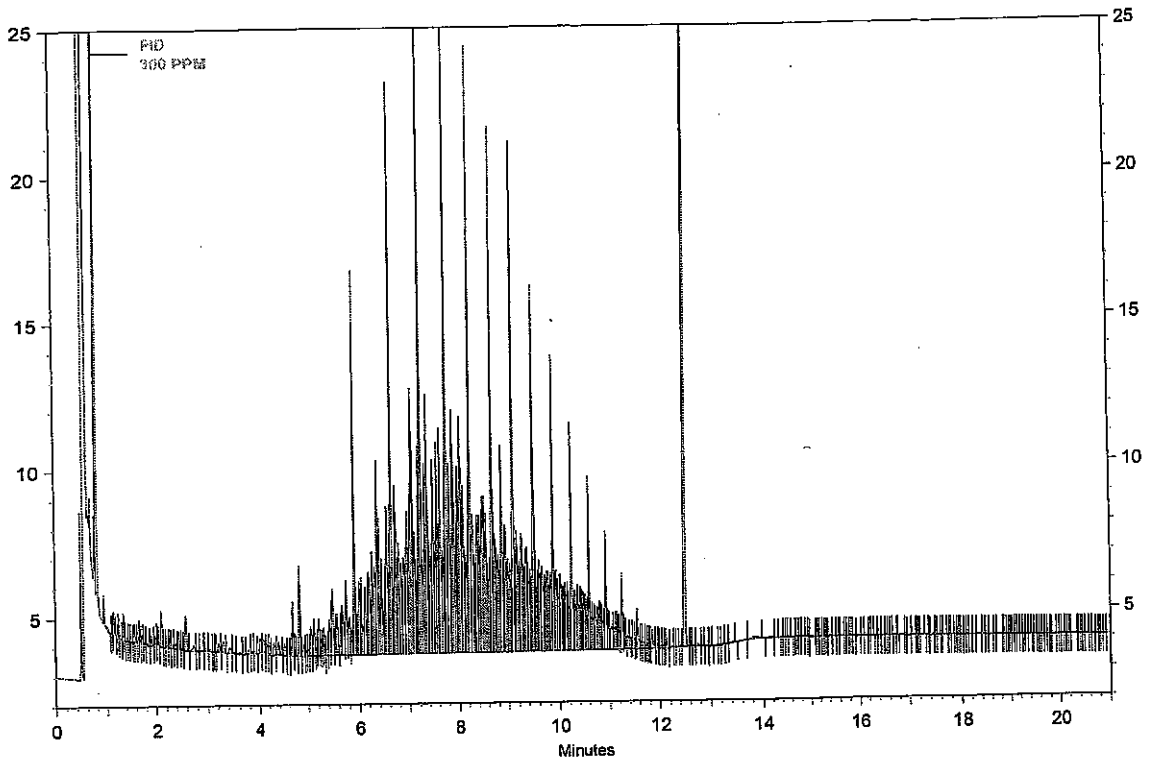
Name	Retention Time	Area	ug/ml
DNOP	12.48	48359	20.000 CAL
DRO		505776	200.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **9** User: **System**
Sample ID: **300 PPM** Data Descritpion: **SV109-1539**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\300 PPM 08-13-14 1-49-29 PM.dat
Aquired: 8/13/2014 1:57:36 PM



FID Results

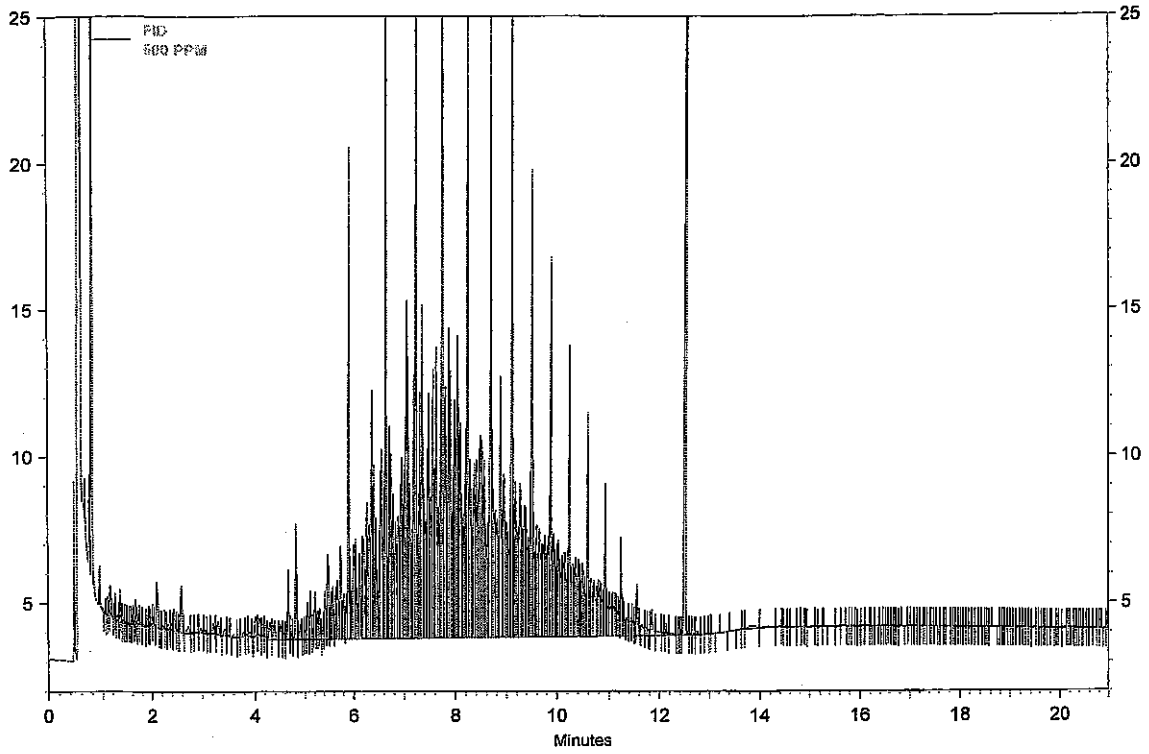
Name	Retention Time	Area	ug/ml
DNOP	12.48	90478	30.000 CAL
DRO		964738	300.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **10** User: **System**
Sample ID: **500 PPM** Data Descritpion: **SV109-1540**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\500 PPM 08-13-14 2-18-59 PM.dat
Aquired: 8/13/2014 2:27:17 PM



FID Results

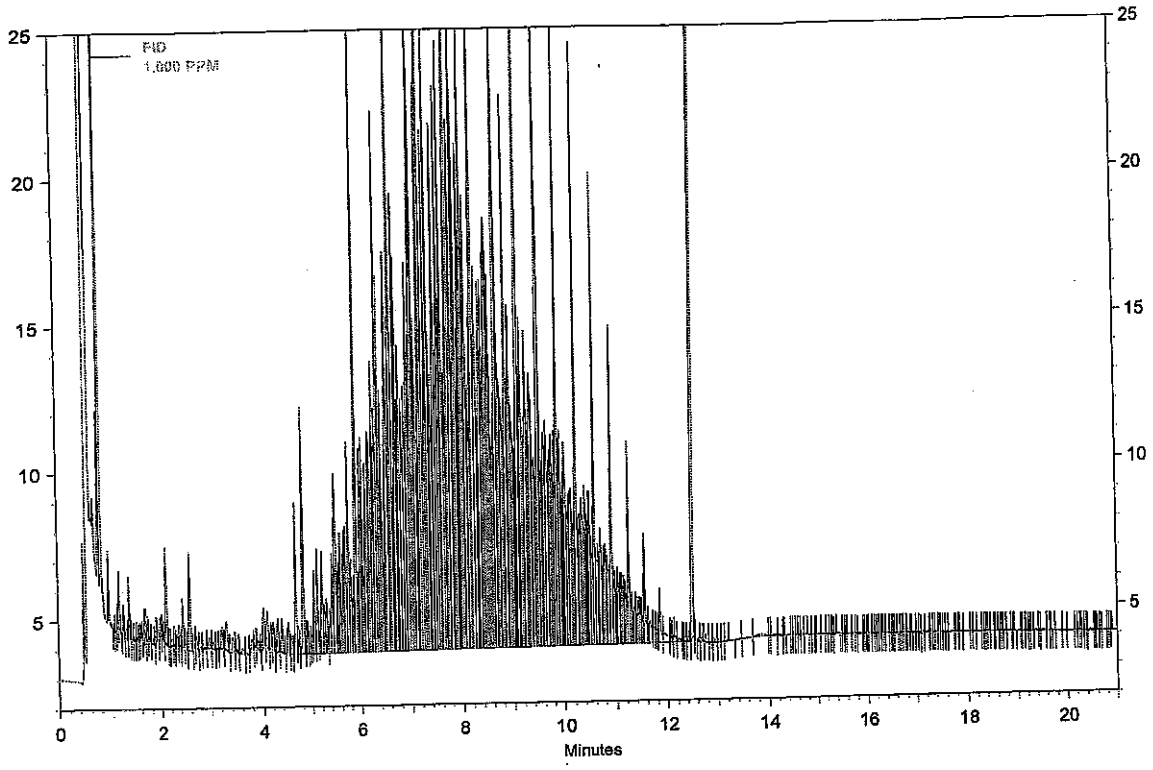
Name	Retention Time	Area	ug/ml
DNOP	12.48	117643	50.000 CAL
DRO		1236689	500.000 CAL

Analyst _____

Reviewed By _____

nstument: **FID 2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1,000 PPM** Data Descritpion: **SV109-1541**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM 08-13-14 2-48-40 PM.dat
Aquired: 8/13/2014 2:56:43 PM



FID Results

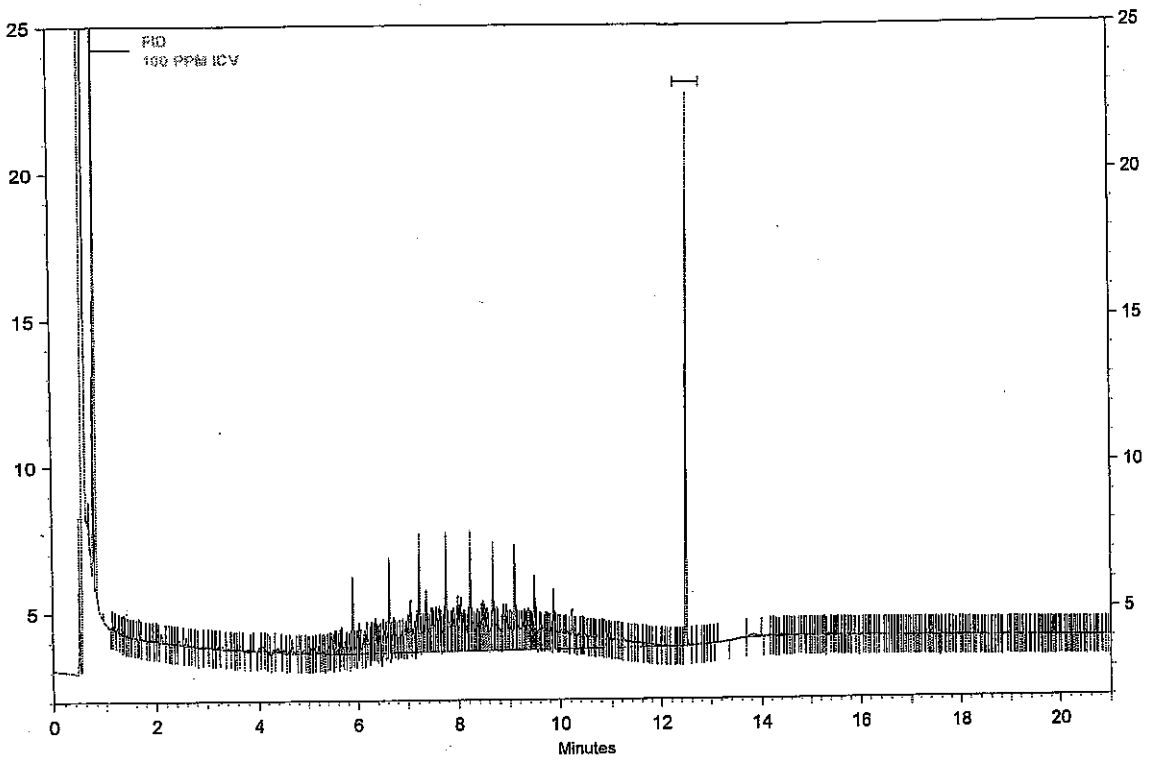
Name	Retention Time	Area	ug/ml
DNOP	12.48	237733	100.000 CAL
DRO		2640934	1000.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **12** User: **System**
Sample ID:. **100 PPM ICV** Data Descritpion: **SV109-1542**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\100 PPM ICV 08-13-14 3-17-55 PM.dat
Aquired: 8/13/2014 3:26:34 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	21044	8.233
DRO		230919	85.054
MRO		3140	0.000

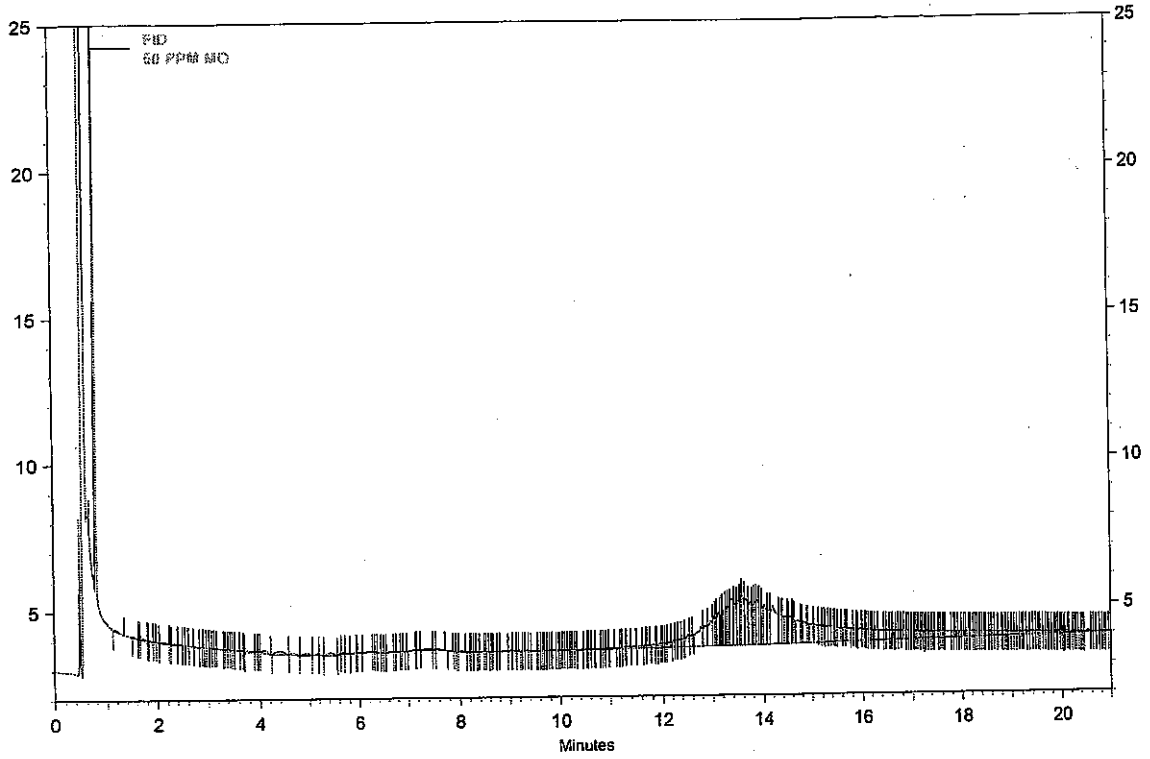
±20%

Analyst _____

Reviewed By _____

nstument: **FID 2 (Offline)** Vial #: **13** User: **System**
Sample ID: **50 PPM MO** Data Descritpion: **SV109-1543**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\50 PPM MO 08-13-14 3-47-55 PM.dat
Aquired: 8/13/2014 3:56:20 PM



FID Results

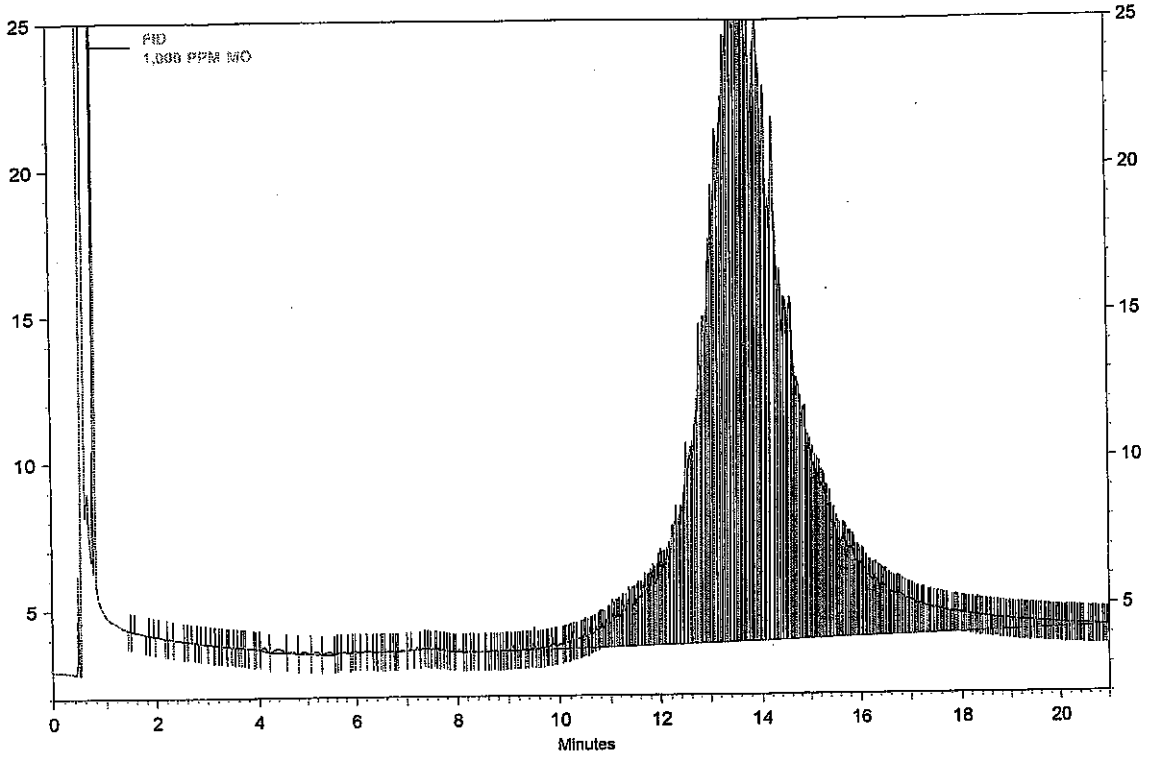
Name	Retention Time	Area	ug/ml
MRO		188011	50.000 CAL

Analyst _____

Reviewed By _____

nstument: **FID 2 (Offline)** Vial #: **15** User: **System**
Sample ID: **1,000 PPM MO** Data Descritpion: **SV109-1545**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\1,000 PPM MO 08-13-14 4-47-36 PM.dat
Aquired: 8/13/2014 4:56:11 PM



FID Results

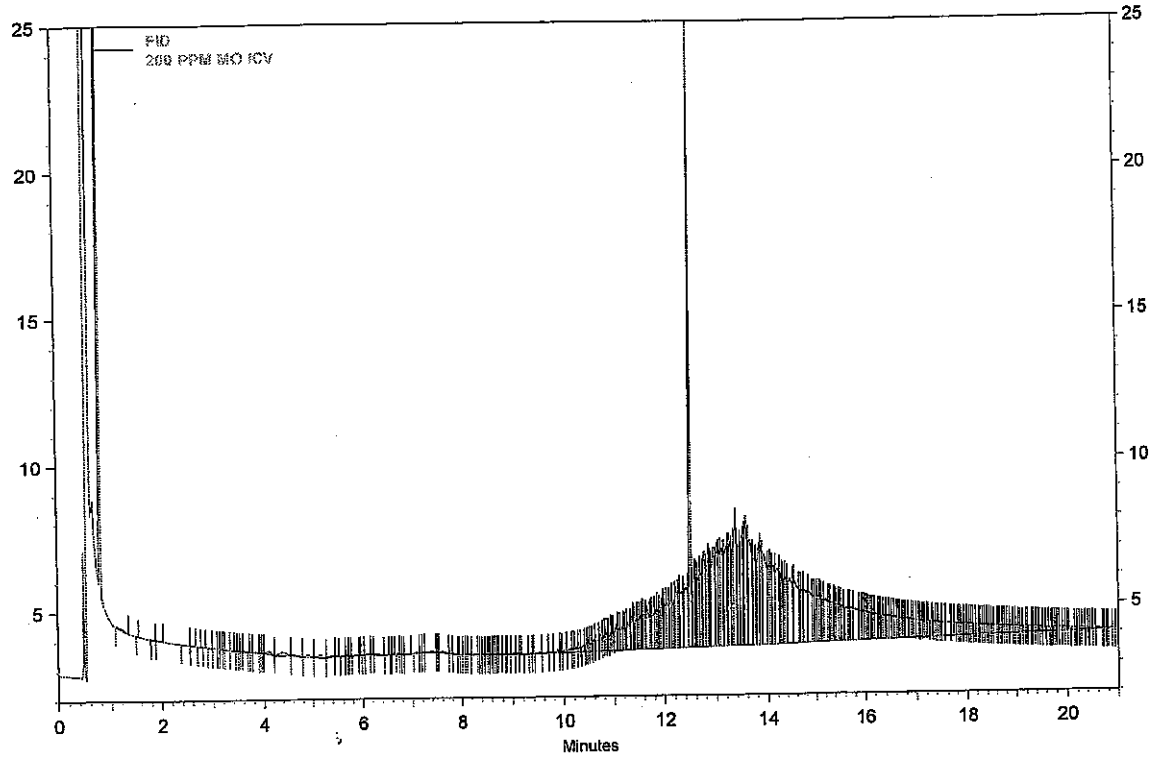
Name	Retention Time	Area	ug/ml
MRO		2159622	1000.000 CAL

Analyst _____

Reviewed By _____

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	33450	12.880
DRO		86640	32.346
MRO		485663	200.272

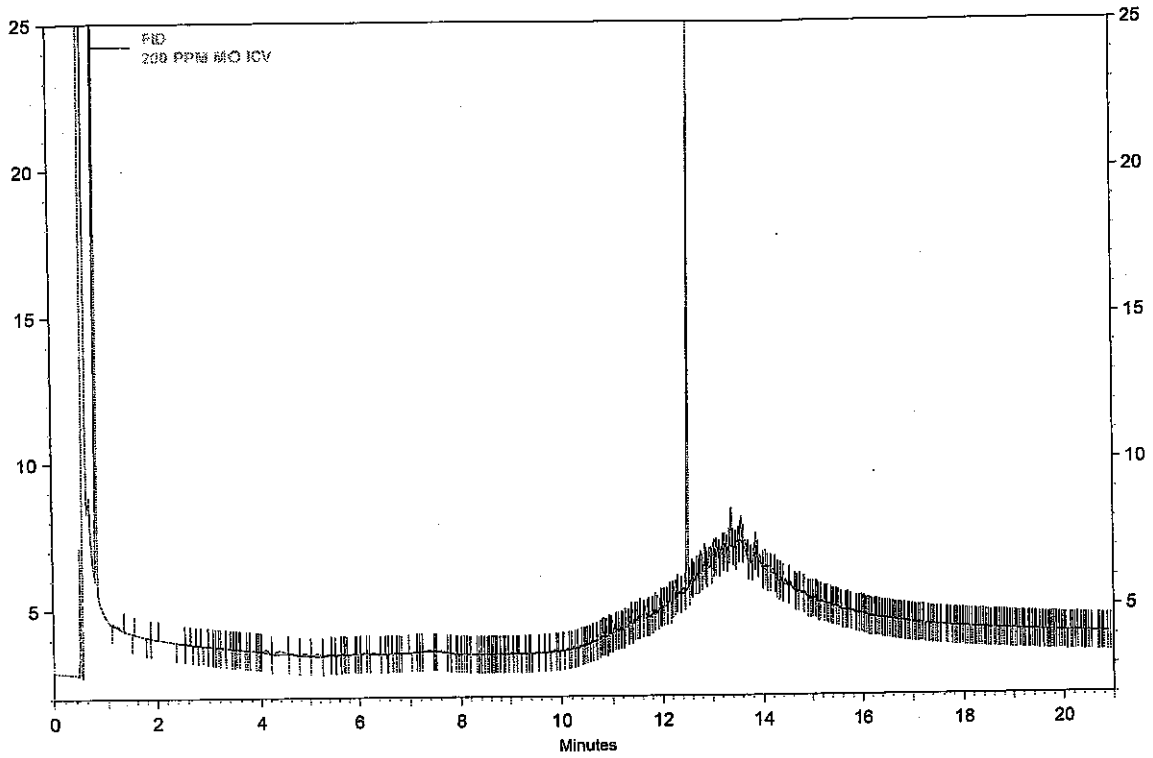
Analyst _____

Reviewed By _____

12.880
- 9.590
3.29
+200.272
203.562
200
X100 = 101.781%
±20%

Instument: **FID 2 (Offline)** Vial #: **16** User: **System**
Sample ID: **200 PPM MO ICV** Data Descritpion: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\FID#2\Method\DRO FID #2 081314.met
File: H:\EZsemi\8015dro\Data 2014\FID#2\Data\200 PPM MO ICV 08-13-14 5-17-34 PM.dat
Aquired: 8/13/2014 5:25:56 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	12.48	25141	9.590
DRO		10275	4.352
MRO		19443	0.000

Analyst _____

Reviewed By _____

Sequence Print

BN 8.19.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Conditione r	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
2	Unknown	0	1	Paraffin	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
3	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
4	Unknown	0	1	200 PPM MO	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
5	Unknown	0	1	1408337-0 01A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408337-001A <D>.dat	1
6	Unknown	0	2	Conditione r	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Conditioner <D>.dat	1
7	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
8	Unknown	0	1	MB-14830	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\MB-14830 <D>.dat	1
9	Unknown	0	1	LCS-1483 0	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\LCS-14830 <D>.dat	1
10	Unknown	0	1	1408629-0 01A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408629-001A <D>.dat	1
11	Unknown	0	1	1408629-0 02A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408629-002A <D>.dat	1
12	Unknown	0	1	1408468-0 01A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408468-001A <D>.dat	1
13	Unknown	0	1	1408468-0 02A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408468-002A <D>.dat	1
14	Unknown	0	1	1408468-0 03A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408468-003A <D>.dat	1
15	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
16	Unknown	0	1	1408740-0 03A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408740-003A <D>.dat	1
17	Unknown	0	1	14011 DNOP	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\14011 DNOP <D>.dat	1
18	Unknown	0	1	1408768-0 03A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\140868-003A <D>.dat	1

837 JR 8/20/14

JR 8/20/14

837

JR 8/20/14

Sequence Print

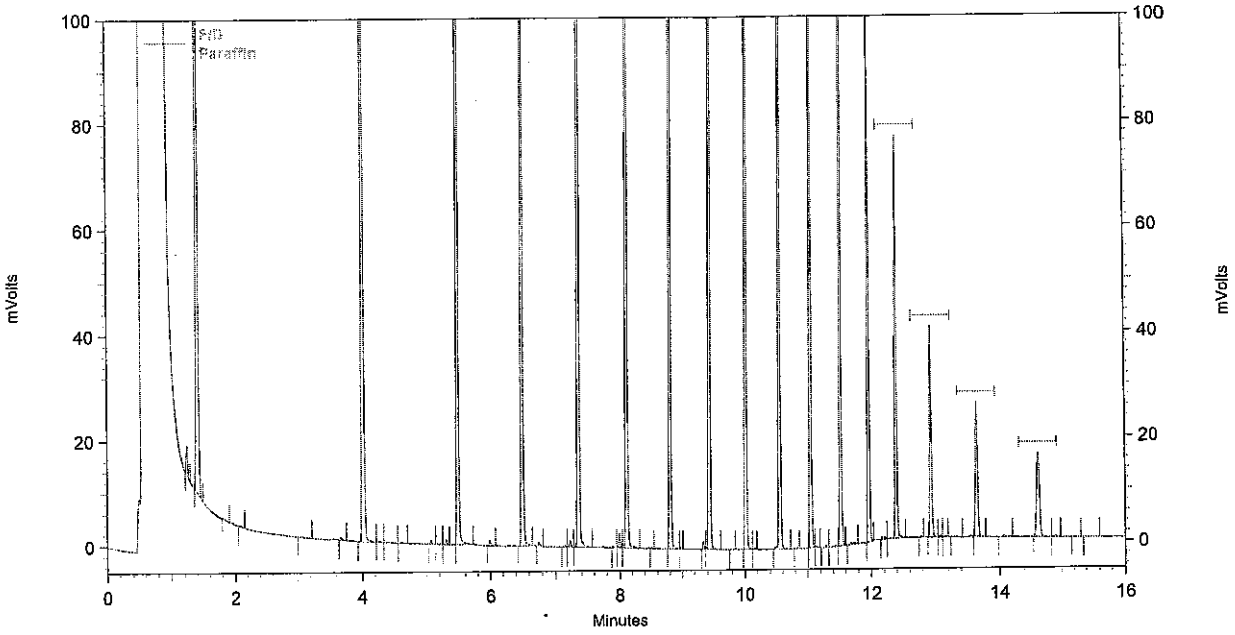
BW 8.19.14

19	Unknown	0	1	1408759-001A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408759-001A <D>.dat	1
20	Unknown	0	1	1408768-005A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\140868-005A <D>.dat	1
21	Unknown	0	1	1408740-002A	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1408740-002A <D>.dat	1
22	Unknown	0	1	100 PPM CCV	081514.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1

8/20/14

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081914\Paraffin 08-19-14 7-52-47 AM.dat
Aquired: 8/19/2014 7:57:57 AM



FID Results

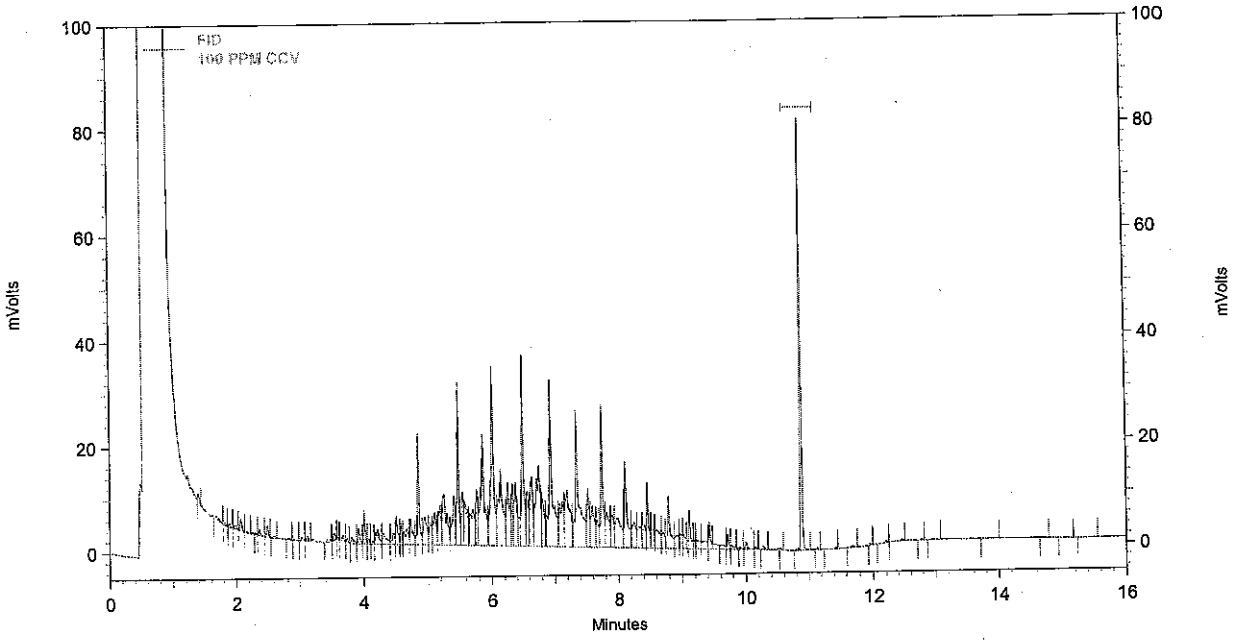
Name	Retention Time	Area	ug/ml
C8	1.397	408544	0.000
C10	4.011	496793	0.000
C12	5.477	480297	0.000
C14	6.491	459018	0.000
C16	7.344	437823	0.000
C18	8.101	412310	0.000
C20	8.795	399170	0.000
C22	9.424	379583	0.000
C24	10.005	362465	0.000
C26	10.544	363681	0.000
C28	11.045	342603	0.000
C30	11.515	284916	0.000
C32	11.957	194792	0.000
C34	12.389	116810	0.000
C36	12.923	75433	0.000
C38	13.637	57418	0.000
C40	14.613	51039	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081914\100 PPM 08-19-14 8-14-03 AM.dat
Aquired: 8/19/2014 8:19:18 AM



FID Results

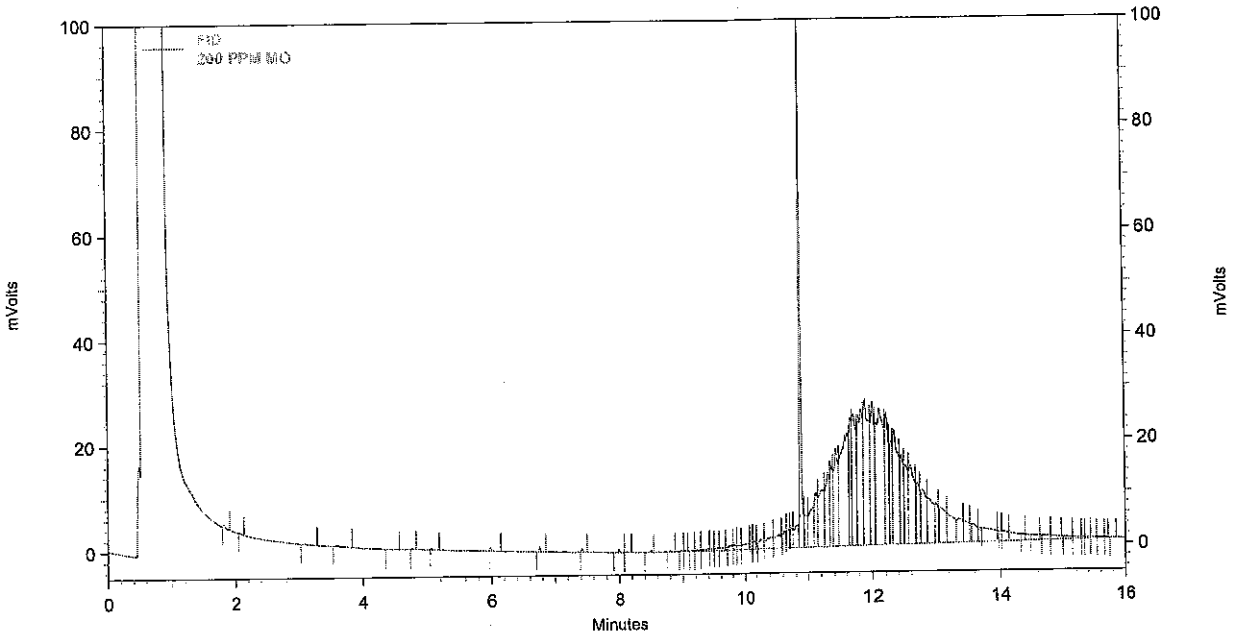
Name	Retention Time	Area	ug/ml
DNOP	10.875	114003	7.351
DRO		1841823	94.318
MRO		6404	0.000

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081914\200 PPM MO 08-19-14 8-35-25 AM.dat
Aquired: 8/19/2014 8:40:40 AM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	156972	9.883
DRO		86759	6.869
MRO		1862964	168.307

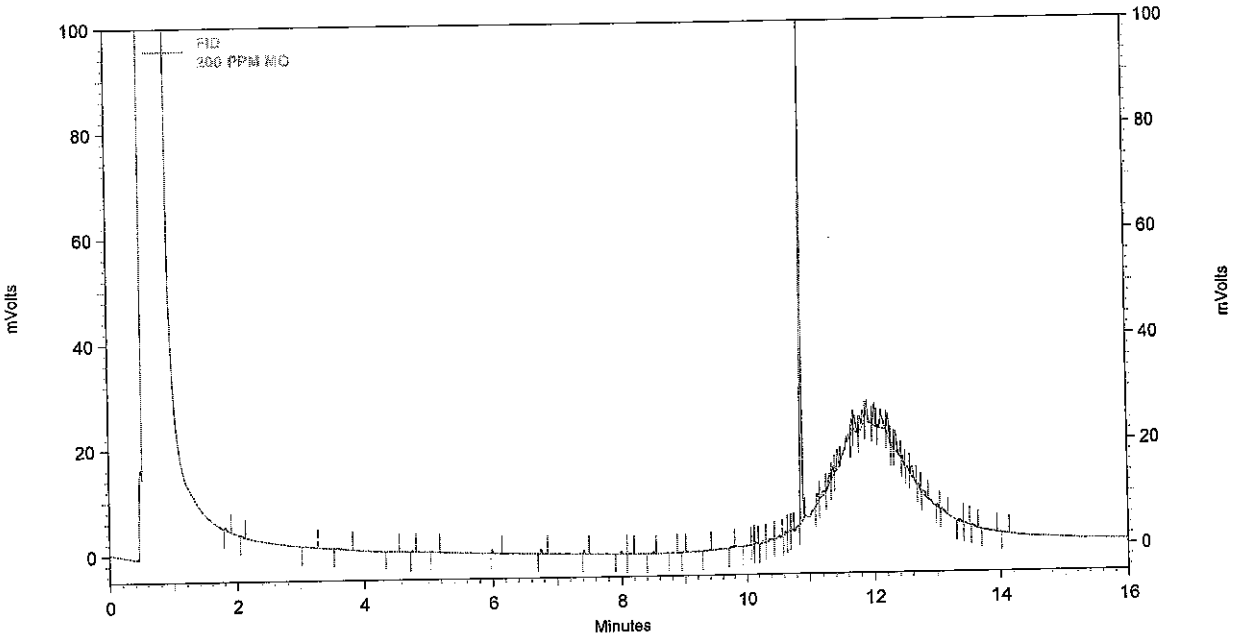
Analyst BW

Reviewed By

9.883
- 8.349
1.534
+ 168.307
169.841 X100
200
= 84.205% ✓

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1530**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081914\200 PPM MO 08-19-14 8-35-25 AM.dat
Aquired: 8/19/2014 8:40:40 AM



FID Results

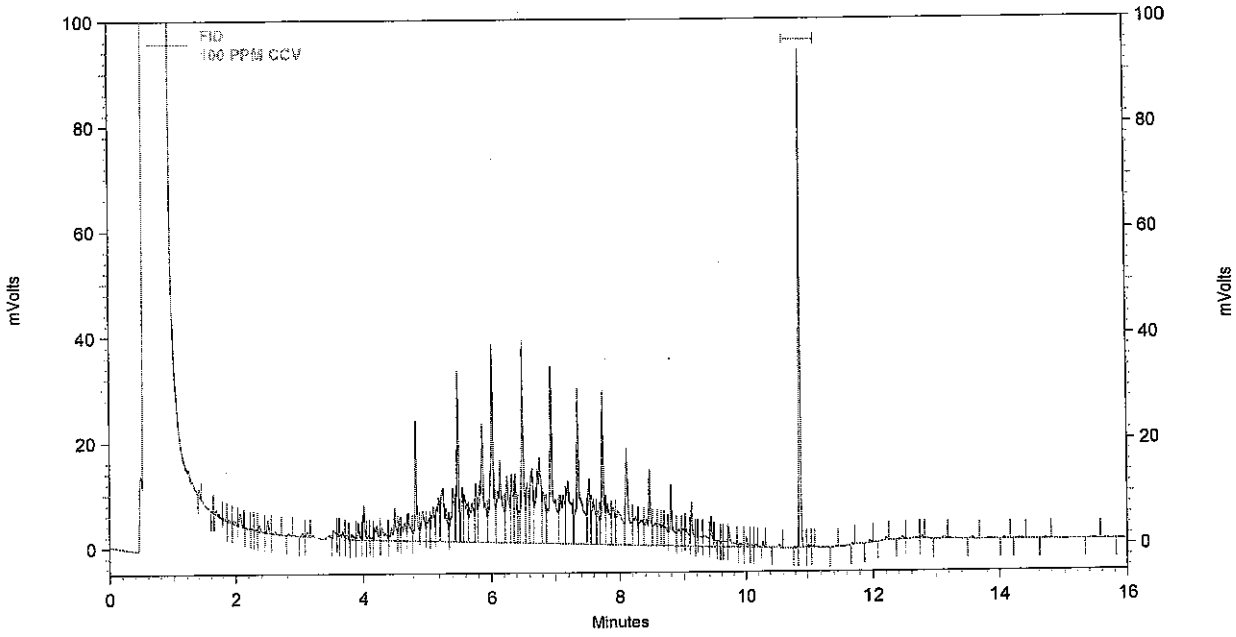
Name	Retention Time	Area	ug/ml
DNOP	10.875	131006	8.349
DRO		16316	3.359
MRO		102654	0.000

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\081914\100 PPM 08-19-14 10-46-00 AM.dat
Aquired: 8/19/2014 10:51:12 AM



FID Results

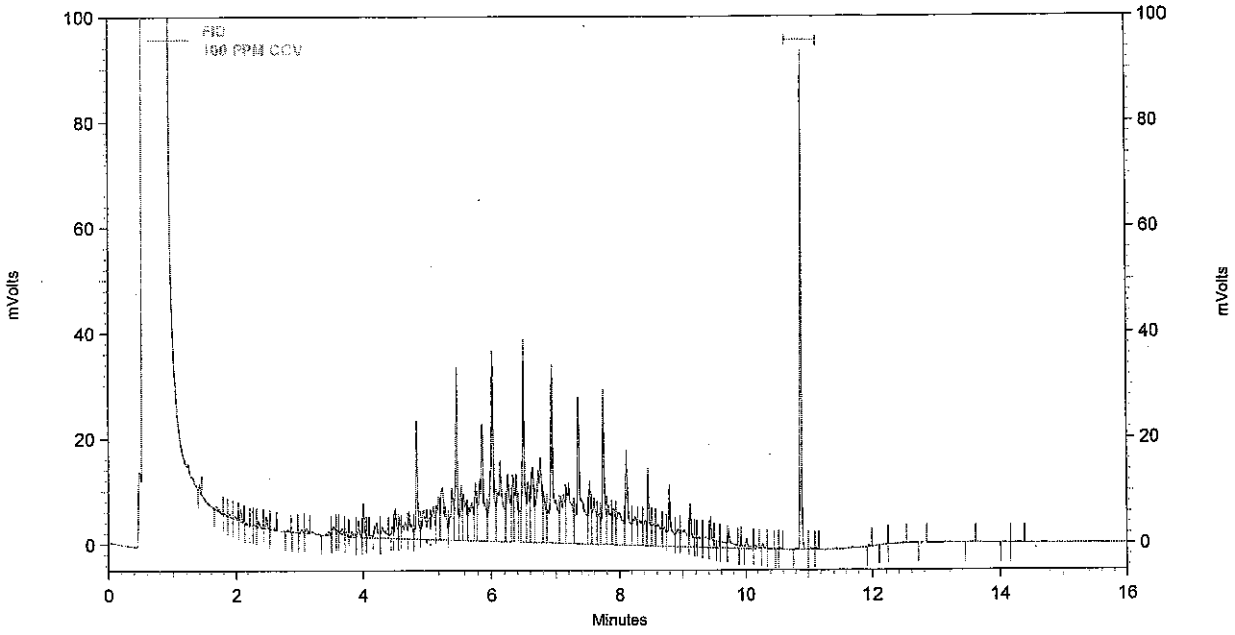
Name	Retention Time	Area	ug/ml
DNOP	10.875	133584	8.501
DRO		2059557	105.167
MRO		14376	0.000

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **100 PPM CCV** Data Description: **SV109-1528**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-19-14 1-40-34 PM.dat
Aquired: 8/19/2014 1:45:52 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.880	130605	8.325
DRO		2008161	102.606
MRO		6177	0.000

Analyst BN

Reviewed By

Calibration Summary

Instrument: DANTE

Date: 8.15.14

Method: 081514.met

Calibration Name: 8015 D

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	
DRO	☑	☐	☐	☑	
MRO	☑	☐	☐	☑	
DNOP (Surr)	N/A	N/A	☐	☑	

Additional Notes:

Analyst: [signature]

QA: [signature]

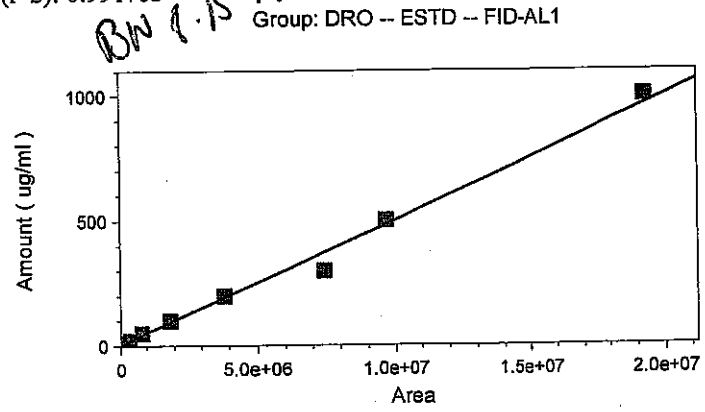
This Document Has Been Approved For Use at HEAL on 7/29/2013 by: [signature] and [signature].

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:21:03 AM
User: System
Instrument: Dante (Offline)

DRO (FID-AL1)
Average RF: 6.03980e-005 RF StDev: 1.70579e-005 RF %RSD: 28.2426
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.98264e-005x + 2.54637
Goodness of fit (r^2): 0.991763

BW 9-15-14 ✓ JS 8/18/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	4	10	20	50	100
Area	40802	131145	341153	826130	1860411
RF	9.803441007 79374e-005	7.62514773723 741e-005	5.862472263178 1e-005	6.052316221417 94e-005	5.3751563498 6033e-005
Last Area Residual	-0.57939	0.919144	0.455203	6.29055	4.75606
Rep StDev					
Rep %RSD					
Rep 1 Area	40802	131145	341153	826130	1860411
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-15-14 2-54-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-15-14 3-15-46 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-15-14 3-37-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-15-14 3-58-48 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/18/2014 10:31:30 AM	8/18/2014 10:31:50 AM	8/18/2014 10:32:04 AM	8/18/2014 10:32:25 AM	8/18/2014 10:36:18 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:21:03 AM
User: System
Instrument: Dante (Offline)

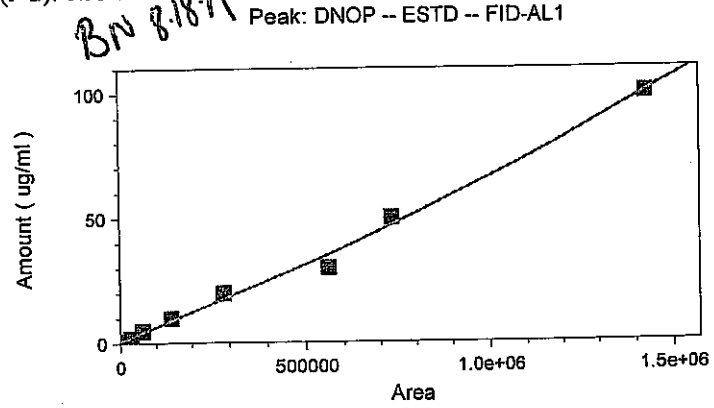
Amount	200	300	500	1000
Area	3821984	7432893	9652670	19265059
RF	5.232884282 09014e-005	4.03611352941 58e-005	5.179913951269 44e-005	5.190744549497 62e-005
Last Area				
Residual	7.01795	-72.9006	16.4959	37.5452
Rep StDev				
Rep %RSD				
Rep 1 Area	3821984	7432893	9652670	19265059
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-15-14 4-20-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 08-15-14 4-41-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-15-14 5-03-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-15-14 5-24-47 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/18/2014 10:36:34 AM	8/18/2014 10:36:53 AM	8/18/2014 10:38:24 AM	8/18/2014 10:38:41 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 10:46:37 AM
User: System
Instrument: Dante (Offline)

DNOP (FID-AL1)
Average RF: 6.91667e-005 RF StDev: 7.29732e-006 RF %RSD: 10.5503
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 9.18529e-012x^2 + 5.64535e-005x + 0.795507
Goodness of fit (r^2): 0.994870

BN 8.18.14 JPZ 8/18/14



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	0.4	1	2	5	10
Area	5810	13611	30349	61280	142003
RF	6.884681583 47676e-005	7.34699875101 021e-005	6.590002965501 33e-005	8.159268929503 92e-005	7.0421047442 6597e-005
Last Area Residual	-0.723812	-0.565598	-0.517276	0.710527	1.0027
Rep StDev					
Rep %RSD					
Rep 1 Area	5810	13611	30349	61280	142003
Rep 1 User	System	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-15-14 2-54-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-15-14 3-15-46 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-15-14 3-37-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-15-14 3-58-48 PM.dat
Rep 1 Sample ID	4 PPM	10 PPM	20 PPM	50 PPM	100 PPM
Rep 1 Calib. Time	8/18/2014 10:31:30 AM	8/18/2014 10:31:50 AM	8/18/2014 10:32:04 AM	8/18/2014 10:32:25 AM	8/18/2014 10:36:18 AM

Level 6	Level 7	Level 8	Level 9

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 10:46:37 AM
User: System
Instrument: Dante (Offline)

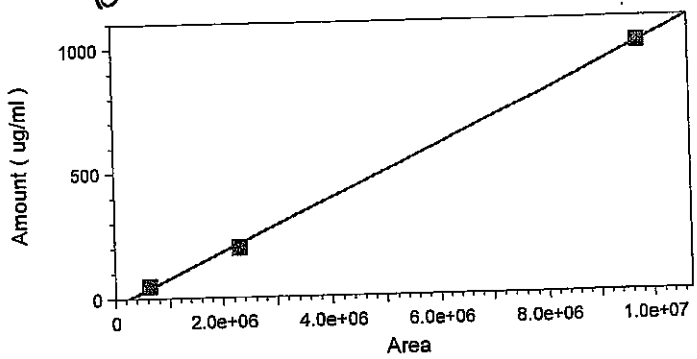
Amount	20	30	50	100
Area	285367	558435	730830	1427594
RF	7.008518854 66785e-005	5.37215611485 67e-005	6.841536335399 48e-005	7.004792679151 08e-005
Last Area Residual	2.34652	-5.18557	3.04058	-0.108077
Rep StDev				
Rep %RSD				
Rep 1 Area	285367	558435	730830	1427594
Rep 1 User	System	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-15-14 4-20-21 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 08-15-14 4-41-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-15-14 5-03-19 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-15-14 5-24-47 PM.dat
Rep 1 Sample ID	200 PPM	300 PPM	500 PPM	1,000 PPM
Rep 1 Calib. Time	8/18/2014 10:36:34 AM	8/18/2014 10:36:53 AM	8/18/2014 10:38:24 AM	8/18/2014 10:38:41 AM

Calibration Report

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
Print Time: 8/18/2014 11:02:27 AM
User: System
Instrument: Dante (Offline)

MRO (FID-AL1)
Average RF: 8.99268e-005 RF StDev: 1.15129e-005 RF %RSD: 12.8025
Scaling: None LSQ Weighting: None Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 0.000105297x - 27.8575
Goodness of fit (r^2): 0.999248

8/18/14
8/18/14



	Level 4	Level 6	Level 9
Amount	50	200	1000
Area	621807	2308260	9734811
RF	8.041080270 88791e-005	8.66453519100 968e-005	0.000102724130 95642
Last Area Residual	12.3831	-15.1951	2.81201
Rep StDev			
Rep %RSD			
Rep 1 Area	621807	2308260	9734811
Rep 1 User	System	System	System
Rep 1 Data File	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO 08-15-14 6-07-45 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-15-14 6-29-17 PM.dat	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO 08-15-14 6-50-40 PM.dat
Rep 1 Sample ID	50 PPM MO	200 PPM MO	1,000 PPM MO
Rep 1 Calib. Time	8/18/2014 10:40:16 AM	8/18/2014 10:40:33 AM	8/18/2014 10:40:55 AM

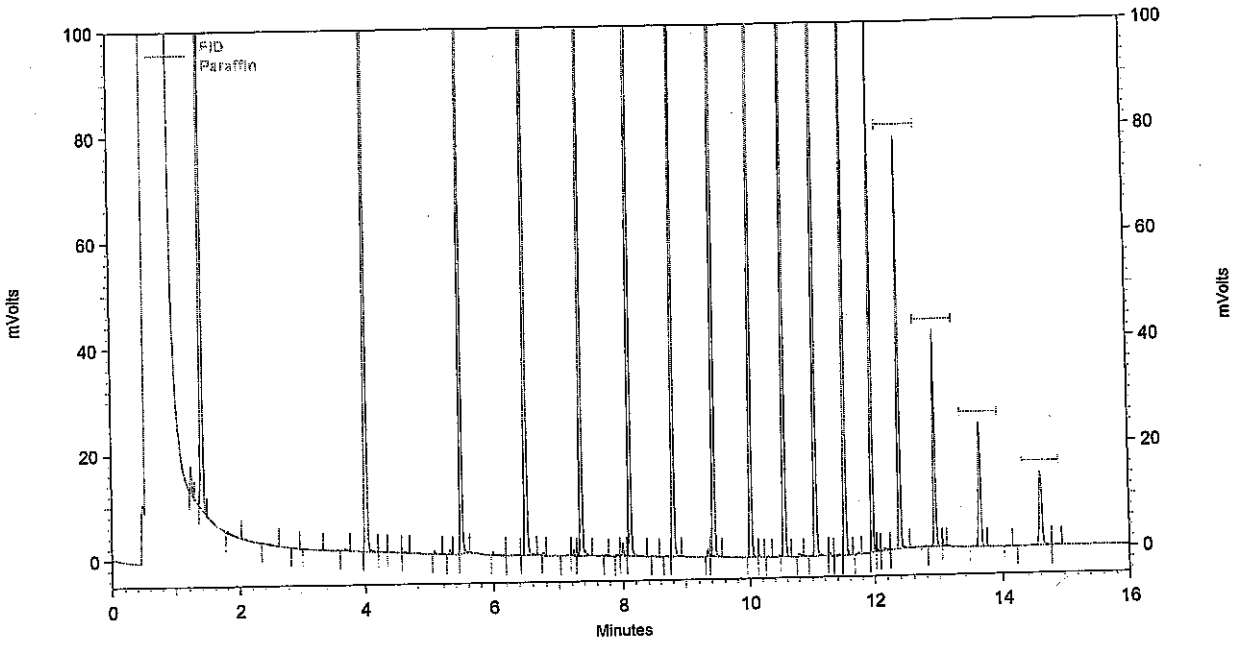
BN 8.15.14

Run #	Run Type	Level	Reps	Sample ID	Method	Data Filename	Sample Amt.
1	Unknown	0	1	Paraffin	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin <D>.dat	1
2	Unknown	0	1	4 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM <D>.dat	1
3	Unknown	0	1	10 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM <D>.dat	1
4	Unknown	0	1	20 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM <D>.dat	1
5	Unknown	0	1	50 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM <D>.dat	1
6	Unknown	0	1	100 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM <D>.dat	1
7	Unknown	0	1	200 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM <D>.dat	1
8	Unknown	0	1	300 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM <D>.dat	1
9	Unknown	0	1	500 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM <D>.dat	1
10	Unknown	0	1	1,000 PPM	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM <D>.dat	1
11	Unknown	0	1	100 PPM ICV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM ICV <D>.dat	1
12	Unknown	0	1	50 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO <D>.dat	1
13	Unknown	0	1	200 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO <D>.dat	1
14	Unknown	0	1	1,000 PPM MO	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO <D>.dat	1
15	Unknown	0	1	200 PPM MO ICV	072414.met	H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV <D>.dat	1

✓ 8/18/14

Instrument: **Dante (Offline)** Vial #: **1** User: **System**
Sample ID: **Paraffin** Data Description: **SV109-1532**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\Paraffin 08-15-14 2-15-28 PM.dat
Aquired: 8/15/2014 2:16:48 PM



FID Results

Name	Retention Time	Area	ug/ml
C8	1.397	374379	0.000
C10	4.011	427905	0.000
C12	5.477	415741	0.000
C14	6.491	409351	0.000
C16	7.349	401302	0.000
C18	8.107	386481	0.000
C20	8.795	380772	0.000
C22	9.424	367620	0.000
C24	10.005	358264	0.000
C26	10.544	364335	0.000
C28	11.051	357475	0.000
C30	11.520	298663	0.000
C32	11.957	206515	0.000
C34	12.389	123705	0.000
C36	12.928	78108	0.000
C38	13.637	56265	0.000
C40	14.613	45626	0.000

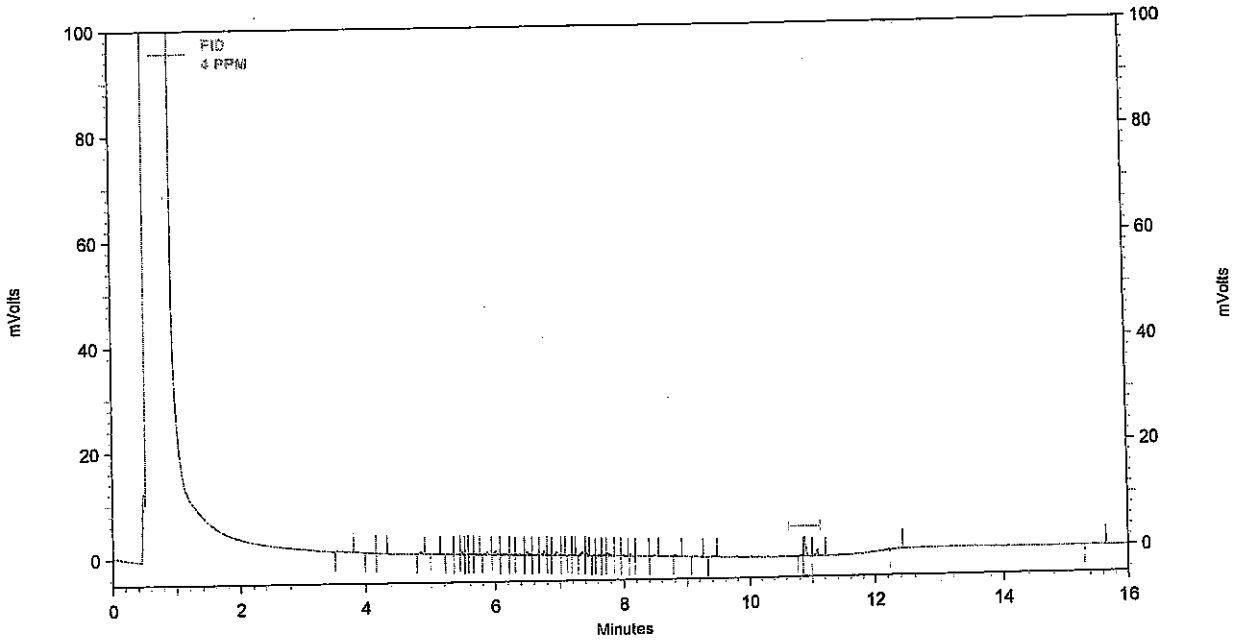
Analyst BW

Reviewed By

* Updated retention times

Instrument: **Dante (Offline)** Vial #: **2** User: **System**
Sample ID: **4 PPM** Data Description: **SV109-1533**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\4 PPM 08-15-14 2-32-54 PM.dat
Aquired: 8/15/2014 2:38:13 PM



FID Results

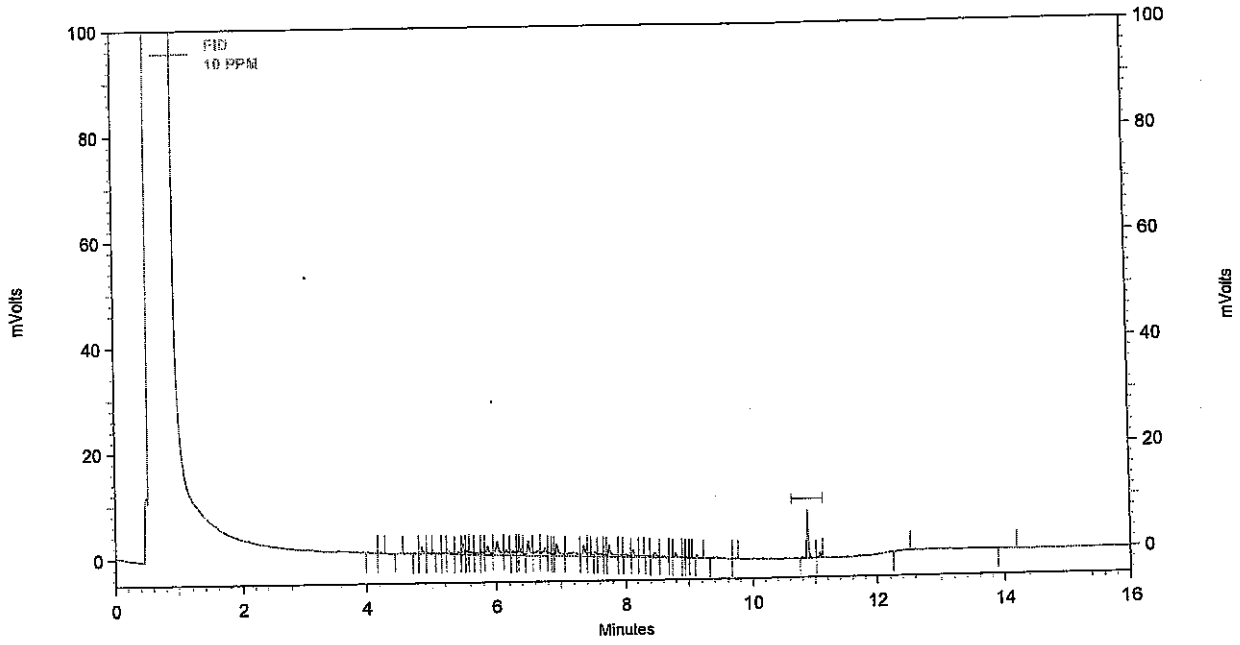
Name	Retention Time	Area	ug/ml
DNOP	10.880	5810	0.400 CAL
DRO		40802	4.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **3** User: **System**
Sample ID: **10 PPM** Data Description: **SV109-1534**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\10 PPM 08-15-14 2-54-19 PM.dat
Aquired: 8/15/2014 2:59:37 PM



FID Results

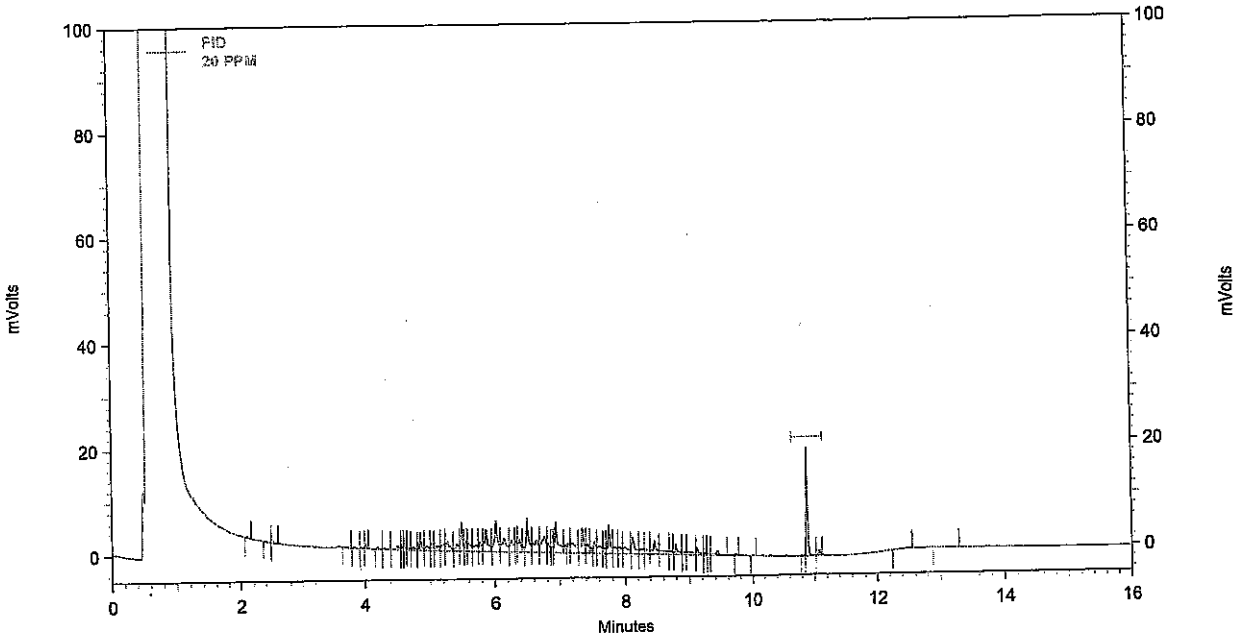
Name	Retention Time	Area	ug/ml
DNOP	10.880	13611	1.000 CAL
DRO		131145	10.000 CAL

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **4** User: **System**
Sample ID: **20 PPM** Data Description: **SV109-1535**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\20 PPM 08-15-14 3-15-46 PM.dat
Aquired: 8/15/2014 3:21:14 PM



FID Results

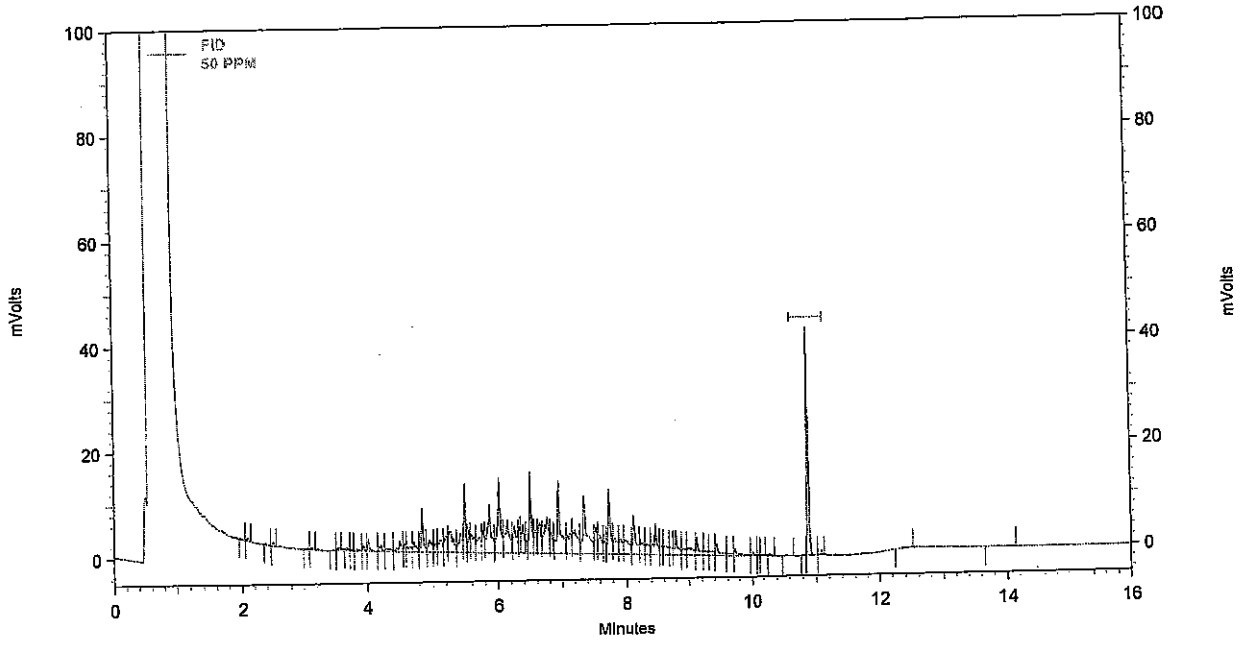
Name	Retention Time	Area	ug/ml
DNOP	10.880	30349	2.000 CAL
DRO		341153	20.000 CAL

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **5** User: **System**
Sample ID: **50 PPM** Data Description: **SV109-1536**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM 08-15-14 3-37-21 PM.dat
Aquired: 8/15/2014 3:42:41 PM



FID Results

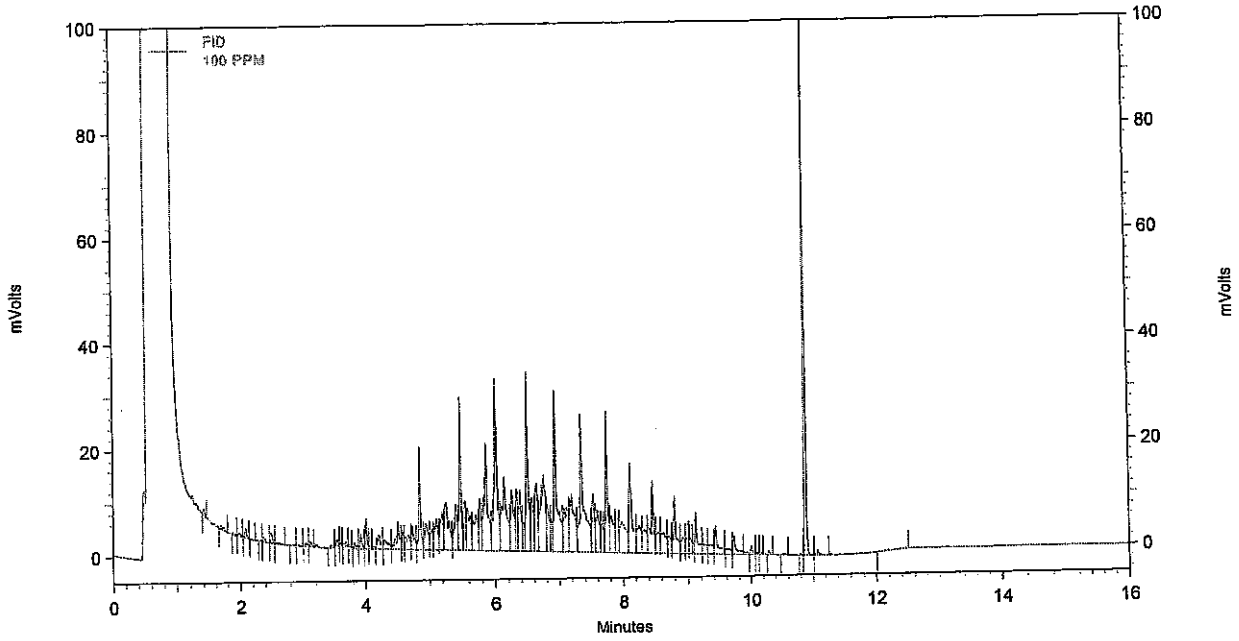
Name	Retention Time	Area	ug/ml
DNOP	10.880	61280	5.000 CAL
DRO		826130	50.000 CAL

Analyst BN

Reviewed By JE

Instrument: **Dante (Offline)** Vial #: **6** User: **System**
Sample ID: **100 PPM** Data Description: **SV109-1537**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM 08-15-14 3-58-48 PM.dat
Aquired: 8/15/2014 4:04:13 PM



FID Results

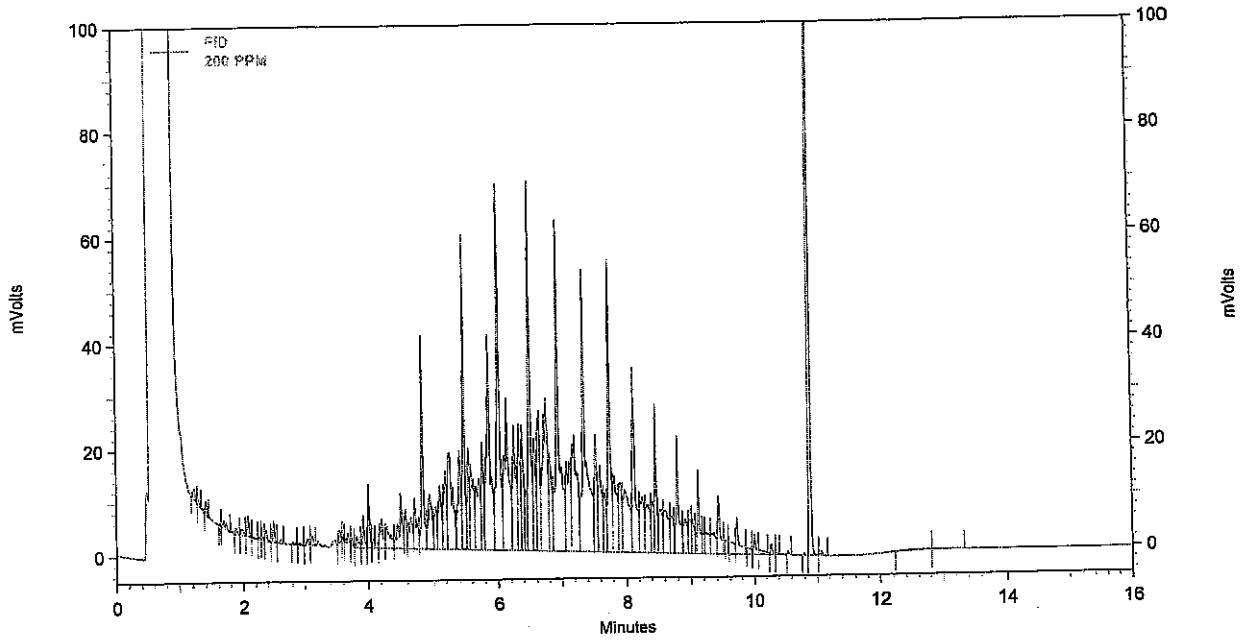
Name	Retention Time	Area	ug/ml
DNOP	10.875	142003	10.000 CAL
DRO		1860411	100.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **7** User: **System**
Sample ID: **200 PPM** Data Description: **SV109-1538**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM 08-15-14 4-20-21 PM.dat
Aquired: 8/15/2014 4:25:35 PM



FID Results

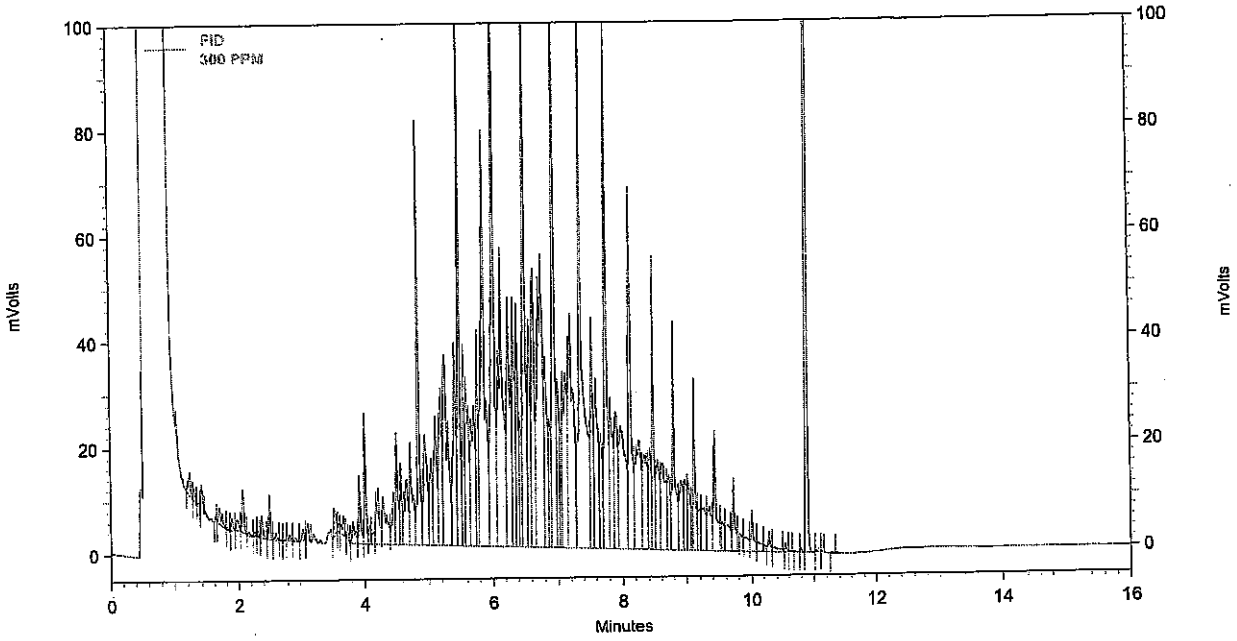
Name	Retention Time	Area	ug/ml
DNOP	10.875	285367	20.000 CAL
DRO		3821984	200.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **8** User: **System**
Sample ID: **300 PPM** Data Description: **SV109-1539**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\300 PPM 08-15-14 4-41-45 PM.dat
Aquired: 8/15/2014 4:47:13 PM



FID Results

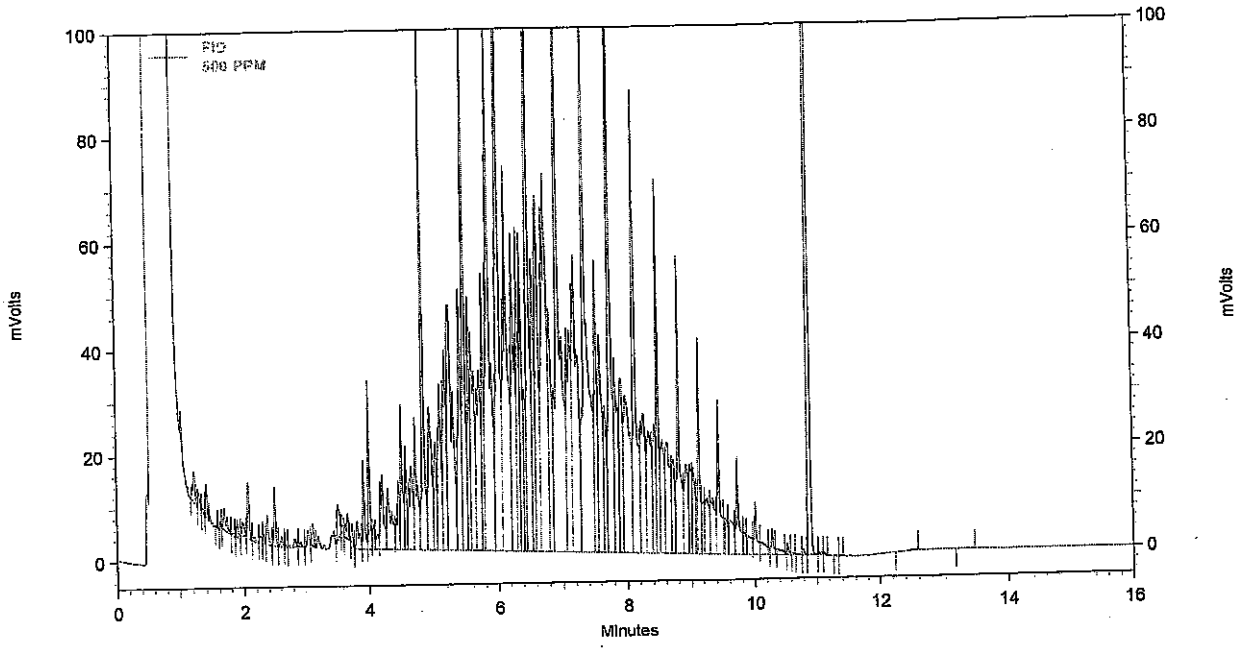
Name	Retention Time	Area	ug/ml
DNOP	10.875	558435	30.000 CAL
DRO		7432893	300.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **9** User: **System**
Sample ID: **500 PPM** Data Description: **SV109-1540**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\500 PPM 08-15-14 5-03-19 PM.dat
Aquired: 8/15/2014 5:08:38 PM



FID Results

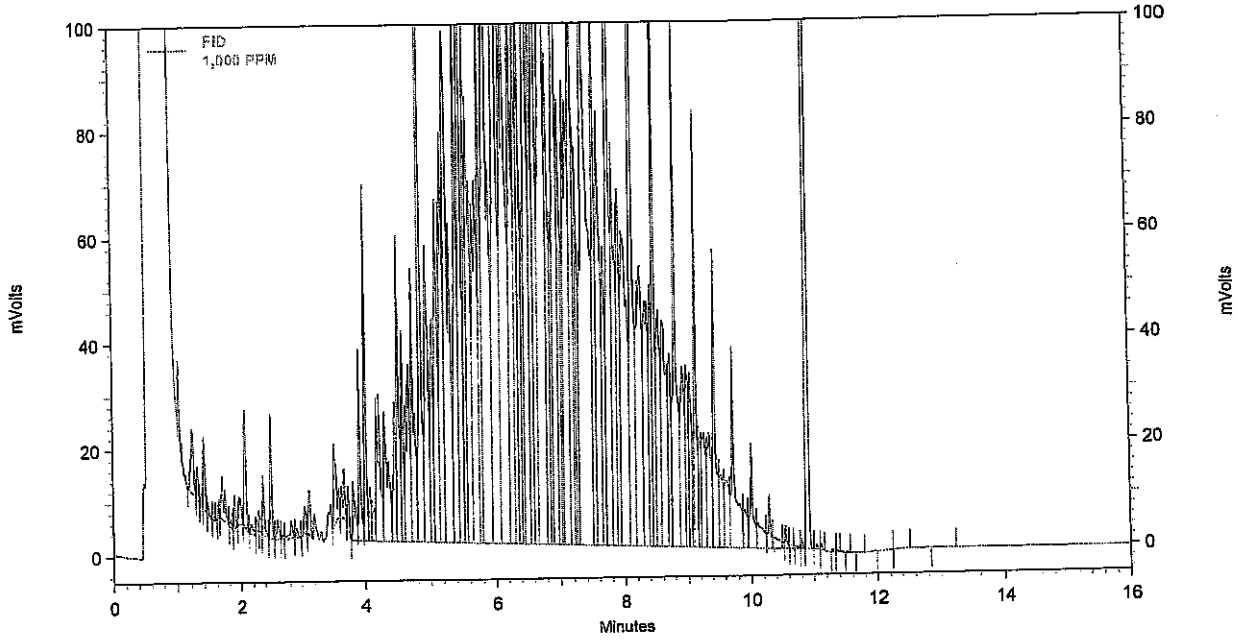
Name	Retention Time	Area	ug/ml
DNOP	10.880	730830	50.000 CAL
DRO		9652670	500.000 CAL

Analyst _____

Reviewed By _____

Instrument: **Dante (Offline)** Vial #: **10** User: **System**
Sample ID: **1,000 PPM** Data Description: **SV109-1541**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM 08-15-14 5-24-47 PM.dat
Aquired: 8/15/2014 5:30:13 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.885	1427594	100.000 CAL
DRO		19265059	1000.000 CAL

Analyst _____

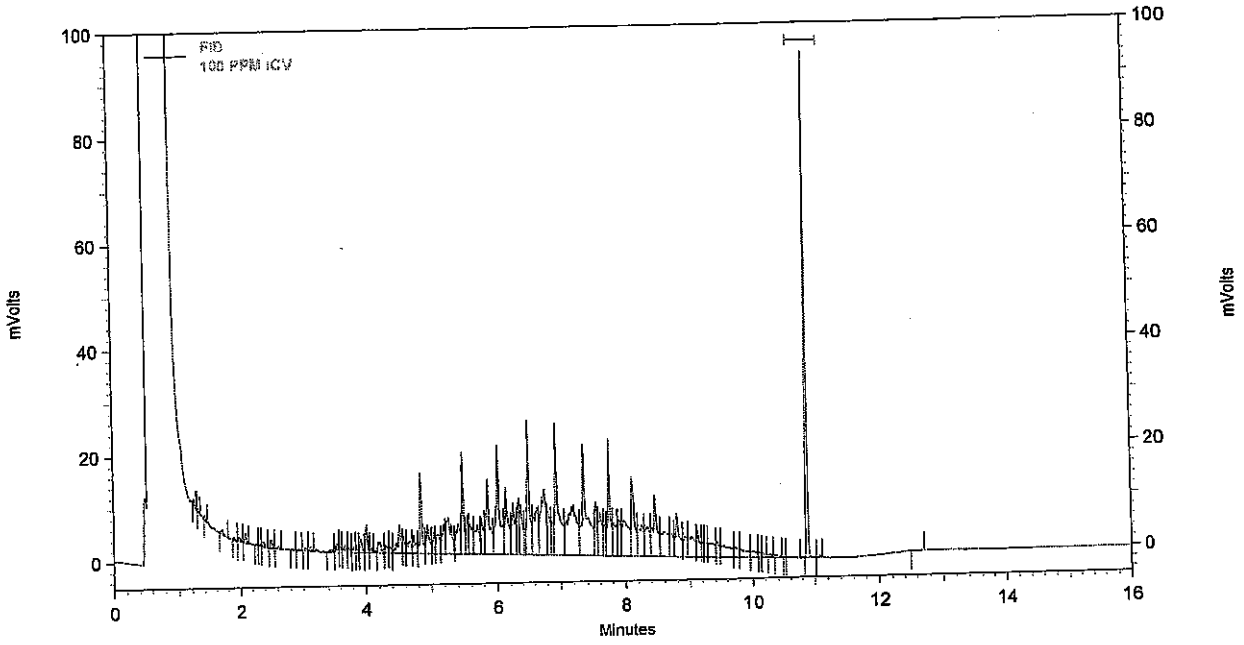
Reviewed By _____

Instrument: **Dante (Offline)**
Sample ID: **100 PPM ICV**

Vial #: **11**
Data Description: **SV109-1542**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\100 PPM ICV 08-15-14 5-46-20 PM.dat
Aquired: 8/15/2014 5:51:38 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	132757	8.452
DRO		1774063	90.942
MRO		1381	0.000

±20% ✓

Analyst BN

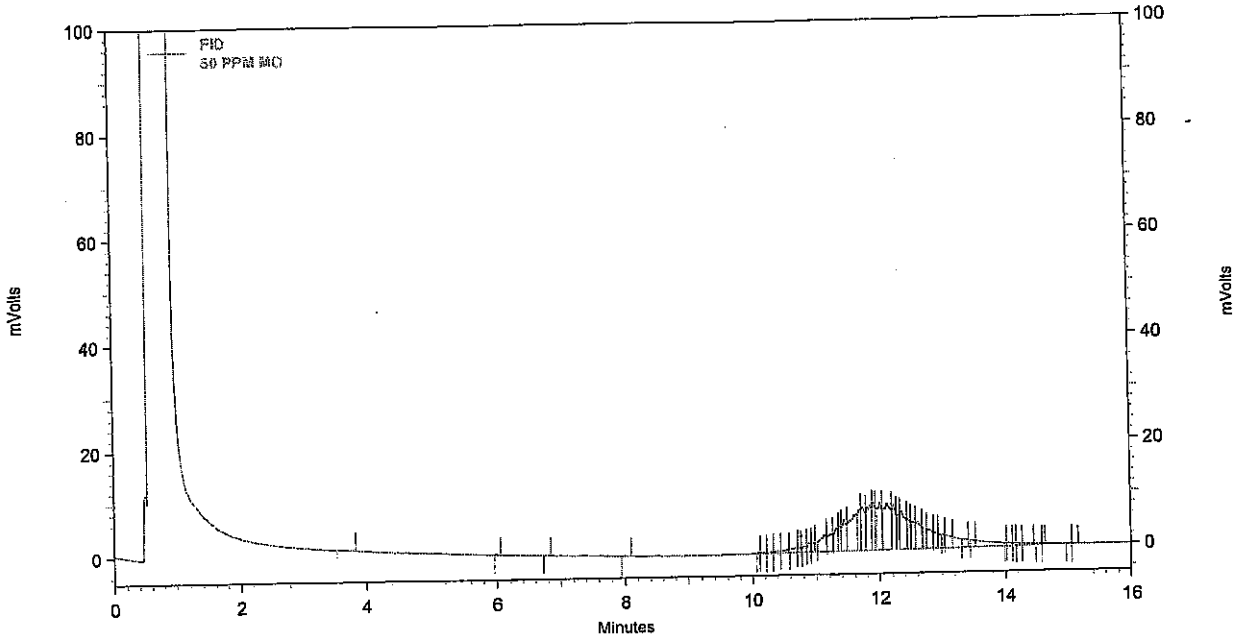
Reviewed By

Instrument: **Dante (Offline)**
Sample ID: **50 PPM MO**

Vial #: **12**
Data Description: **SV109-1543**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\50 PPM MO 08-15-14 6-07-45 PM.dat
Aquired: 8/15/2014 6:13:11 PM



FID Results

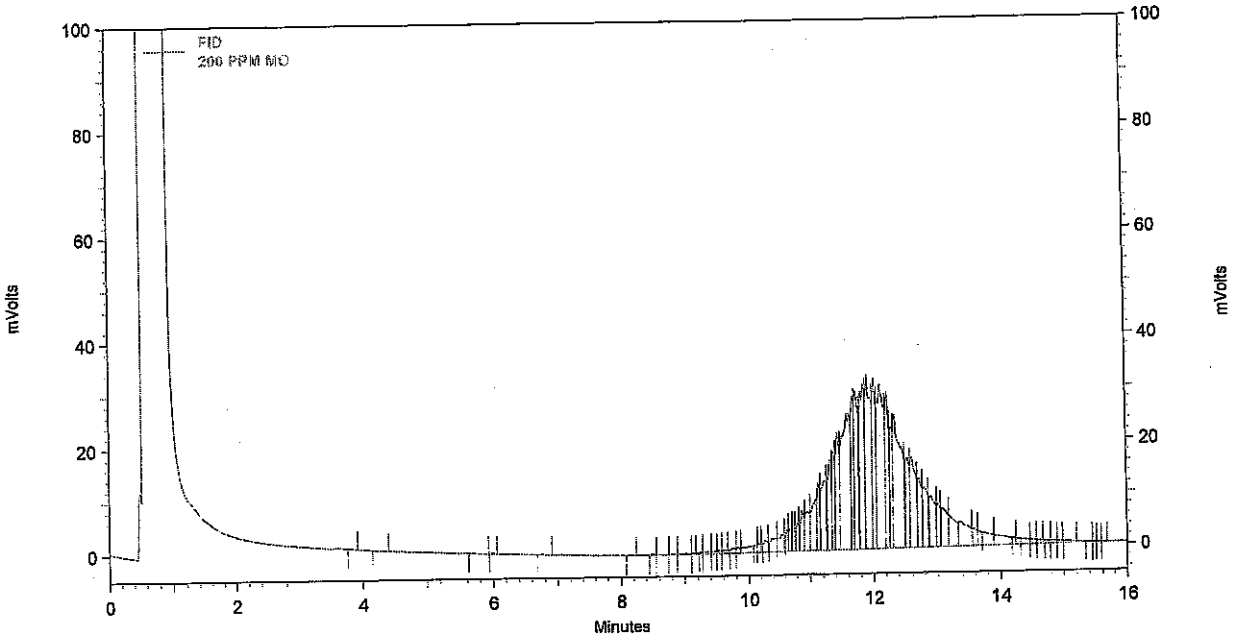
Name	Retention Time	Area	ug/ml
MRO		621807	50.000 CAL

Analyst BW

Reviewed By

Instrument: **Dante (Offline)** Vial #: **13** User: **System**
Sample ID: **200 PPM MO** Data Description: **SV109-1544**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO 08-15-14 6-29-17 PM.dat
Aquired: 8/15/2014 6:34:32 PM



FID Results

Name	Retention Time	Area	ug/ml
MRO		2308260	200.000 CAL

Analyst _____

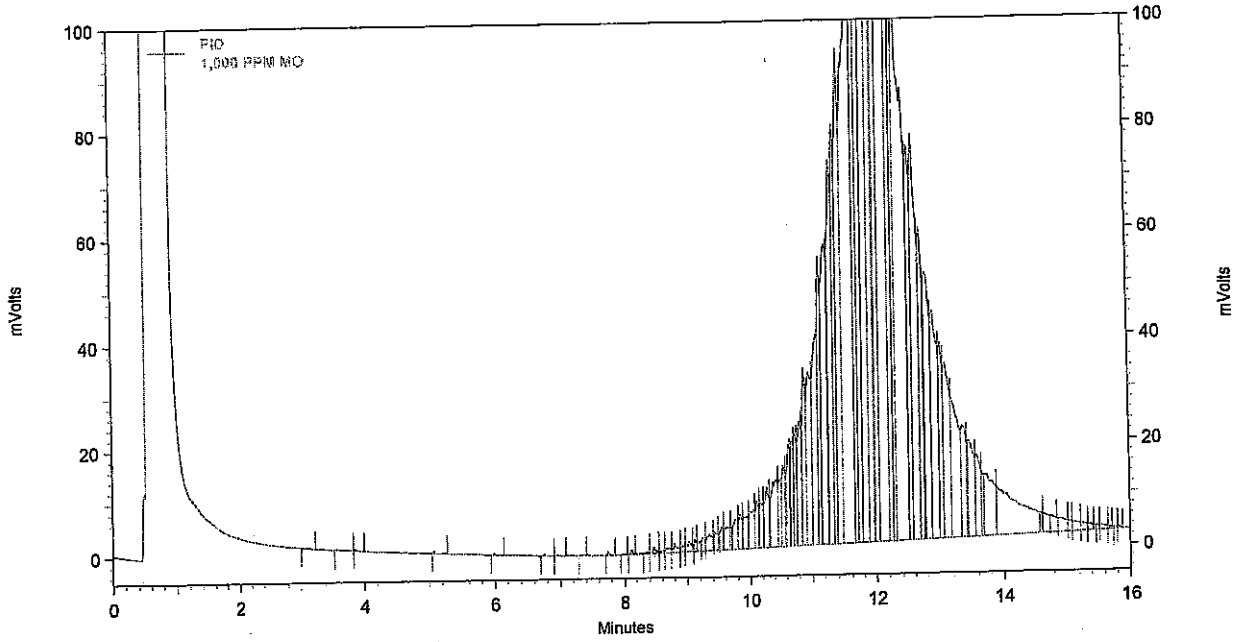
Reviewed By _____

Instrument: **Dante (Offline)**
Sample ID: **1,000 PPM MO**

Vial #: **14**
Data Description: **SV109-1545**

User: **System**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\1,000 PPM MO 08-15-14 6-50-40 PM.dat
Aquired: 8/15/2014 6:56:03 PM



FID Results

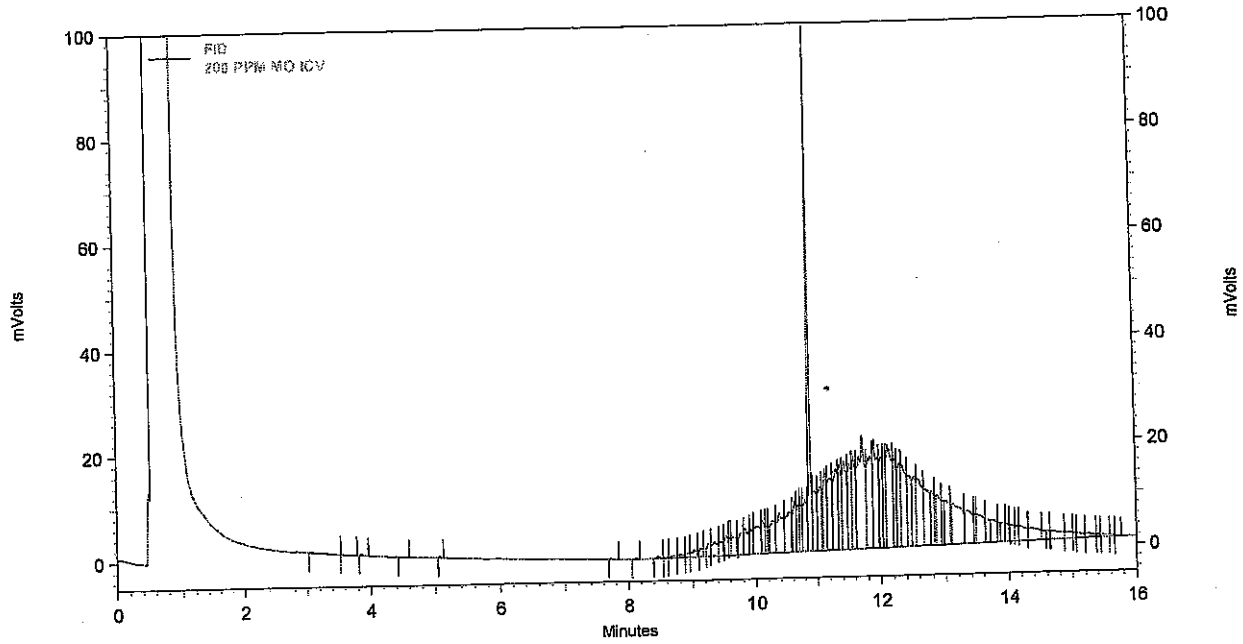
Name	Retention Time	Area	ug/ml
MRO		9734811	1000.000 CAL

Analyst BN

Reviewed By

Instrument: **Dante (Offline)** Vial #: **15** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-15-14 7-12-12 PM.dat
Aquired: 8/15/2014 7:17:24 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	170701	10.700
DRO		375365	21.249
MRO		2042019	187.161

Analyst BN

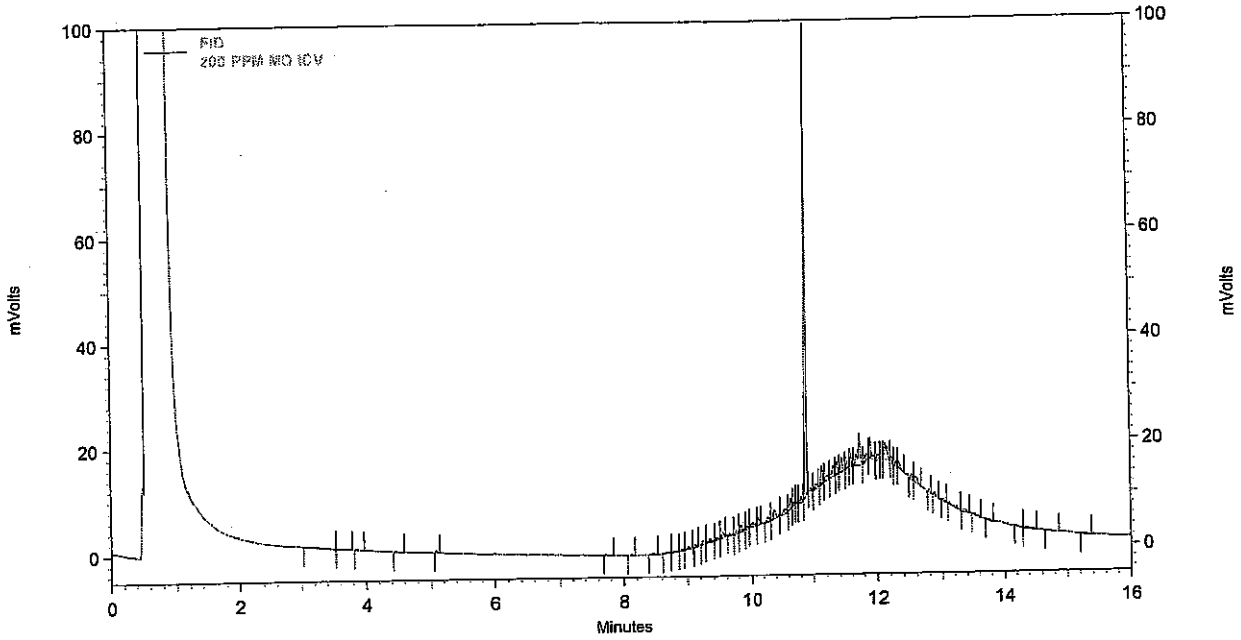
Reviewed By

±20% ✓

10.700
- 7.893
2.807
+187.161
189.968 x100
200
=94.98% ✓

Instrument: **Dante (Offline)** Vial #: **15** User: **System**
Sample ID: **200 PPM MO ICV** Data Description: **SV109-1546**

Method: H:\EZsemi\8015dro\Data 2014\Dante\Method\081514.met
File: H:\EZsemi\8015dro\Data 2014\Dante\Data\200 PPM MO ICV 08-15-14 7-12-12 PM.dat
Aquired: 8/15/2014 7:17:24 PM



FID Results

Name	Retention Time	Area	ug/ml
DNOP	10.875	123247	7.893
DRO		36397	4.360
MRO		103828	0.000

Analyst _____

Reviewed By _____

8/20/14

Analytical Report
Lab Order: **1408893**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-001 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0043 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014 L3							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20677	8/19/2014 5:01:37 PM
Surr: BFB	106	61.2-137		%REC	1	R20677	8/19/2014 5:01:37 PM

Lab ID: 1408893-002 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0044 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20677	8/19/2014 6:25:46 PM
Surr: BFB	107	61.2-137		%REC	1	R20677	8/19/2014 6:25:46 PM

Lab ID: 1408893-003 **Collection Date:** 8/18/2014 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20677	8/19/2014 7:49:49 PM
Surr: BFB	108	61.2-137		%REC	1	R20677	8/19/2014 7:49:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-004
Client Sample ID: MEOH BLANK
Collection Date:
Matrix: MEOH BLANK

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8260B: VOLATILES							Analyst: KJH
Benzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Toluene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Naphthalene	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Acetone	ND	0.75		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Bromobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Bromoform	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Bromomethane	ND	0.15		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
2-Butanone	ND	0.50		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Carbon disulfide	ND	0.50		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Chlorobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Chloroethane	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Chloroform	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Chloromethane	ND	0.15		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Dibromomethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

EPA METHOD 8260B: VOLATILES

Analyst: **KJH**

Hexachlorobutadiene	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
2-Hexanone	ND	0.50		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Methylene chloride	0.017	0.15	J	mg/Kg	1	R20677	8/19/2014 8:17:45 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Styrene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Vinyl chloride	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Xylenes, Total	ND	0.10		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Bromochloromethane	ND	0.050		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Vinyl acetate	ND	0.50		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Surr: Dibromofluoromethane	84.3	70-130		%REC	1	R20677	8/19/2014 8:17:45 PM
Surr: 1,2-Dichloroethane-d4	82.1	70-130		%REC	1	R20677	8/19/2014 8:17:45 PM
Surr: Toluene-d8	97.1	70-130		%REC	1	R20677	8/19/2014 8:17:45 PM
Surr: 4-Bromofluorobenzene	85.5	70-130		%REC	1	R20677	8/19/2014 8:17:45 PM

Comment: DUE 08/21/2014

EPA METHOD 8015D MOD: GASOLINE RANGE

Analyst: **KJH**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	R20677	8/19/2014 8:17:45 PM
Surr: BFB	107	61.2-137		%REC	1	R20677	8/19/2014 8:17:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

8/21/14

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408893**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-001
Collection Date: 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0043
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014 L3							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.00262	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Toluene	0.00449	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Ethylbenzene	0.000851	0.00158	J	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Xylenes, Total	0.00425	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2,4-Trimethylbenzene	0.00121	0.00158	J	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,3,5-Trimethylbenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2-Dichloroethane (EDC)	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2-Dibromoethane (EDB)	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Naphthalene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Acetone	0.0154	0.00788		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Bromobenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Bromodichloromethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Bromoform	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Bromomethane	0.00221	0.00394	J	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
2-Butanone	ND	0.00788		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Carbon tetrachloride	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Chlorobenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Chloroethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Chloroform	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Chloromethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
2-Chlorotoluene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Carbon disulfide	ND	0.00788		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
4-Chlorotoluene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
cis-1,2-DCE	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
cis-1,3-Dichloropropene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2-Dibromo-3-chloropropane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Dibromochloromethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Dibromomethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2-Dichlorobenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,3-Dichlorobenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,4-Dichlorobenzene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Dichlorodifluoromethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1-Dichloroethane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1-Dichloroethene	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2-Dichloropropane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,3-Dichloropropane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
2,2-Dichloropropane	ND	0.00158		mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Hexachlorobutadiene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Isopropylbenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
4-Isopropyltoluene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Methylene chloride	ND	0.00394	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
n-Butylbenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
2-Hexanone	ND	0.00788	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
n-Propylbenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
sec-Butylbenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Styrene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
4-Methyl-2-pentanone	ND	0.00788	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
tert-Butylbenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1,1,2-Tetrachloroethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1,2,2-Tetrachloroethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Tetrachloroethene (PCE)	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
trans-1,2-DCE	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
trans-1,3-Dichloropropene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2,3-Trichlorobenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2,4-Trichlorobenzene	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1,1-Trichloroethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,1,2-Trichloroethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Trichloroethene (TCE)	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Trichlorofluoromethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
1,2,3-Trichloropropane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Vinyl chloride	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Vinyl acetate	ND	0.00788	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Bromochloromethane	ND	0.00158	mg/Kg-dry	1	14860	8/20/2014 12:58:03 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	14860	8/20/2014 12:58:03 PM
Surr: 4-Bromofluorobenzene	90.0	65.3-135	%REC	1	14860	8/20/2014 12:58:03 PM
Surr: Dibromofluoromethane	92.8	70-130	%REC	1	14860	8/20/2014 12:58:03 PM
Surr: Toluene-d8	105	70-130	%REC	1	14860	8/20/2014 12:58:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Analytical Report
Lab Order: **1408893**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-002
Client Sample ID: FFOR-CF-0044
Collection Date: 8/18/2014 1:28:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	0.00250	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Toluene	0.00377	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Ethylbenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Xylenes, Total	0.00305	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2,4-Trimethylbenzene	0.00115	0.00160	J	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,3,5-Trimethylbenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2-Dichloroethane (EDC)	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2-Dibromoethane (EDB)	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Naphthalene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Acetone	0.0202	0.00800		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Bromobenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Bromodichloromethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Bromoform	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Bromomethane	0.00192	0.00400	J	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
2-Butanone	ND	0.00800		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Carbon tetrachloride	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Chlorobenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Chloroethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Chloroform	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Chloromethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
2-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Carbon disulfide	ND	0.00800		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
4-Chlorotoluene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
cis-1,2-DCE	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
cis-1,3-Dichloropropene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2-Dibromo-3-chloropropane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Dibromochloromethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Dibromomethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,3-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,4-Dichlorobenzene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Dichlorodifluoromethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1-Dichloroethane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1-Dichloroethene	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,3-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
2,2-Dichloropropane	ND	0.00160		mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408893
Project: Kirtland AFB

Comment: DUE 08/21/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Hexachlorobutadiene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Isopropylbenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
4-Isopropyltoluene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Methylene chloride	ND	0.00400	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
n-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
2-Hexanone	ND	0.00800	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
n-Propylbenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
sec-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Styrene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
4-Methyl-2-pentanone	ND	0.00800	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
tert-Butylbenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1,1,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1,2,2-Tetrachloroethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Tetrachloroethene (PCE)	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
trans-1,2-DCE	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
trans-1,3-Dichloropropene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2,3-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2,4-Trichlorobenzene	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1,1-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,1,2-Trichloroethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Trichloroethene (TCE)	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Trichlorofluoromethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
1,2,3-Trichloropropane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Vinyl chloride	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Vinyl acetate	ND	0.00800	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Bromochloromethane	ND	0.00160	mg/Kg-dry	1	14860	8/20/2014 2:24:17 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	14860	8/20/2014 2:24:17 PM
Surr: 4-Bromofluorobenzene	94.2	65.3-135	%REC	1	14860	8/20/2014 2:24:17 PM
Surr: Dibromofluoromethane	90.8	70-130	%REC	1	14860	8/20/2014 2:24:17 PM
Surr: Toluene-d8	98.1	70-130	%REC	1	14860	8/20/2014 2:24:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408893
Project: Kirtland AFB

Lab ID: 1408893-003 **Collection Date:** 8/18/2014 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**
Benzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Toluene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Ethylbenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Xylenes, Total	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2,4-Trimethylbenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,3,5-Trimethylbenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2-Dichloroethane (EDC)	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2-Dibromoethane (EDB)	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Naphthalene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Acetone	0.00881	0.00824		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Bromobenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Bromodichloromethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Bromoform	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Bromomethane	0.00197	0.00412	J	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
2-Butanone	ND	0.00824		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Carbon tetrachloride	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Chlorobenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Chloroethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Chloroform	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Chloromethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
2-Chlorotoluene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Carbon disulfide	ND	0.00824		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
4-Chlorotoluene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
cis-1,2-DCE	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
cis-1,3-Dichloropropene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2-Dibromo-3-chloropropane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Dibromochloromethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Dibromomethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2-Dichlorobenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,3-Dichlorobenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,4-Dichlorobenzene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Dichlorodifluoromethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1-Dichloroethane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1-Dichloroethene	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2-Dichloropropane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,3-Dichloropropane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
2,2-Dichloropropane	ND	0.00165		mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

METHOD 8260B/5035LOW: VOLATILES Analyst: **cadg**

1,1-Dichloropropene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Hexachlorobutadiene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Isopropylbenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
4-Isopropyltoluene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Methylene chloride	ND	0.00412	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
n-Butylbenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
2-Hexanone	ND	0.00824	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
n-Propylbenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
sec-Butylbenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Styrene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
4-Methyl-2-pentanone	ND	0.00824	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
tert-Butylbenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1,1,2-Tetrachloroethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1,2,2-Tetrachloroethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Tetrachloroethene (PCE)	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
trans-1,2-DCE	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
trans-1,3-Dichloropropene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2,3-Trichlorobenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2,4-Trichlorobenzene	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1,1-Trichloroethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,1,2-Trichloroethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Trichloroethene (TCE)	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Trichlorofluoromethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
1,2,3-Trichloropropane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Vinyl chloride	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Vinyl acetate	ND	0.00824	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Bromochloromethane	ND	0.00165	mg/Kg-dry	1	14860	8/20/2014 2:53:04 PM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	14860	8/20/2014 2:53:04 PM
Surr: 4-Bromofluorobenzene	94.1	65.3-135	%REC	1	14860	8/20/2014 2:53:04 PM
Surr: Dibromofluoromethane	93.0	70-130	%REC	1	14860	8/20/2014 2:53:04 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	14860	8/20/2014 2:53:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSD limit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

rian Star Workstation - Generic SampleList Tue Aug 19 15:38:58 2014

mpleList: C:\VarianWS\081914v.smp

eated: Tue Aug 19 08:19:56 2014
dified: Tue Aug 19 15:36:48 2014

****

Line	Sample Name	Injection Notes
1	5mL-rb	below tune@8:35
	Notes All injections contain V-52-0505	
2	rtm	below
	Notes V-18-2064	
3	2.0ug ccv GRO	below @9:31
	Notes V-18-2061	
4	100ng ccv	below @9:59
	Notes V-54-0463	
5	2.5ug lcs GRO	below
	Notes V-18-2067	
6	100ng lcs	below
	Notes V-11-8062	
7	vcb	none tune@11:23
8	1408742-002ms	below
	Notes r1-5mL PB14797 V-11-8062	
9	1408742-002msd	below
	Notes r1-5mL PB14797 V-11-8062	
10	1408754-001a	below
	Notes x1-5mL	
11	1408754-001a ms	below
	Notes x1-5mL V-11-8062	
12	1408754-001a msd	below
	Notes x1-5mL V-11-8062	
13	1408754-002a	below
	Notes x1-5mL	
14	1408754-003a	below
	Notes x1-5mL	
15	1408754-004a	below
	Notes x1-5mL	
16	1408754-005a	below
	Notes x1-5mL	
17	1408754-006a	below
	Notes x1-5mL	
18	1408754-007a	below
	Notes x1-5mL TB	
19	1408893-001a	below
	Notes x1-100uL GRO	
20	1408893-001a ms	below
	Notes x1-100uL GRO V-18-2061	
21	1408893-001a msd	below
	Notes x1-100uL GRO V-18-2061	
22	1408893-002a	below
	Notes x1-100uL GRO	
23	1408893-002a ms	below
	Notes x1-100uL GRO V-11-8062	
24	1408893-002a msd	below
	Notes x1-100uL GRO V-11-8062	
25	1408893-003a	below
	Notes x1-100uL GRO	
26	1408893-004a	below
	Notes x1-100uL GRO	
27	1408898-001b	below
	Notes x1-0.025mL TCLP_W	
28	b1	none
29	1408899-001b	below @9:41
	Notes x1-0.025mL TCLP_W	
30	tt	none
31	b2	none
32	75ng ccv	below
	Notes V-54-0463	
33	100ng lcs	below
	Notes V-11-8062	
34	vcb	none
35	1408895-001a	below
	Notes x1-5mL SL	
36	1408911-001a	below

Loaded By: KSH 8/19/14
1st Review By: KSH 8/20/14
QA'd By: ✓ WB 8/20/14

↓ Archon stopped Didnot analyze

37	1408911-002a	below
	Notes	x2-2.5mL DDS
38	1408911-003a	below
	Notes	x10-0.5mL
39	1408892-001a	below
	Notes	x20-0.25mL SL
40	1408892-002a	below
	Notes	x20-0.25mL SL
41	1408892-004a	below
	Notes	x20-0.25mL SL
42	1408892-006a	below
	Notes	x20-0.25mL SL
43	1408892-008a	below
	Notes	x20-0.25mL SL
44	b4	none
45	b5	none
46	tt2	none
47		

Archon stopped
Didnot analyze.

Loaded By: KSH 8/19/14
1st Review By KSH 8/20/14
QA'd By:

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\081914v.rcl.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/19/2014 Time: 9:59

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/1/2014 8/1/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 22:52 22:52

Initial Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Lab File ID: c:\varianws\data\100ng ccv 8-19-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.620	0.100	100.00	118.74	-18.7	30.0	PASS	PASS
Chloromethane	0.367	0.100	100.00	79.73	20.3	30.0	PASS	PASS
Vinyl chloride	1.381	0.100	100.00	102.27	-2.3	20.0	PASS	PASS
Chloroethane	0.230	0.100	100.00	102.51	-2.5	30.0	PASS	PASS
Bromomethane	1.135	0.100	100.00	135.46	-35.5	30.0	FAIL	PASS
Trichlorofluoromethane	0.912	0.100	100.00	110.02	-10.0	30.0	PASS	PASS
1,1-Dichloroethene	1.351	0.100	100.00	112.57	-12.6	20.0	PASS	PASS
Acetone	0.429	0.100	200.00	175.93	12.0	40.0	PASS	PASS
Carbon disulfide	1.151	0.100	200.00	245.40	-22.7	40.0	PASS	PASS
Iodomethane	0.131	0.100	200.00	68.21	65.9	40.0	FAIL	PASS
Methyl tert-butyl ether (MTBE)	1.326	0.100	200.00	211.55	-5.8	30.0	PASS	PASS
Isopropyl ether	1.505	0.100	200.00	224.49	-12.2	40.0	PASS	PASS
tert-Butyl alcohol	0.294	0.100	2000.00	2165.21	-8.3	40.0	PASS	PASS
trans-1,2-DCE	1.524	0.100	100.00	109.68	-9.7	30.0	PASS	PASS
tert-Butyl ethyl ether	2.959	0.100	200.00	224.94	-12.5	40.0	PASS	PASS
1,1-Dichloroethane	1.453	0.100	100.00	100.74	-0.7	30.0	PASS	PASS
Methylene Chloride	1.507	0.100	100.00	102.79	-2.8	30.0	PASS	PASS
Vinyl Acetate	2.260	0.100	200.00	251.91	-26.0	40.0	PASS	PASS
2,2-Dichloropropane	0.908	0.100	100.00	113.39	-13.4	30.0	PASS	PASS
2-Butanone	0.508	0.100	200.00	187.22	6.4	40.0	PASS	PASS
1,1,1-Trichloroethane	1.534	0.100	100.00	103.51	-3.5	30.0	PASS	PASS
tert-Amyl methyl ether	1.431	0.100	200.00	208.69	-4.3	40.0	PASS	PASS
1,1-Dichloropropene	0.717	0.100	100.00	108.02	-8.0	30.0	PASS	PASS
Carbon Tetrachloride	3.124	0.100	100.00	101.47	-1.5	30.0	PASS	PASS
cis-1,2-DCE	2.033	0.100	100.00	105.45	-5.4	30.0	PASS	PASS
Benzene	1.937	0.100	100.00	107.31	-7.3	30.0	PASS	PASS
Chloroform	1.436	0.100	100.00	116.21	-16.2	20.0	PASS	PASS
Bromochloromethane	0.528	0.100	100.00	121.19	-21.2	30.0	PASS	PASS
Trichloroethene (TCE)	1.430	0.100	100.00	118.75	-18.7	30.0	PASS	PASS
Dibromofluoromethane	1.630	0.100	50.00	47.31	5.4	30.0	PASS	PASS
1,2-Dichloroethane-d4	4.529	0.100	50.00	49.42	1.2	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	1.762	0.100	100.00	106.89	-6.9	30.0	PASS	PASS
1,2-Dichloropropane	1.938	0.100	100.00	105.90	-5.9	20.0	PASS	PASS
4-Methyl-2-pentanone	2.011	0.100	200.00	214.21	-7.1	40.0	PASS	PASS
Toluene-d8	1.821	0.100	50.00	46.53	6.9	30.0	PASS	PASS

J marks

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KJH 8/20/14

✓ 8/20/14

Analyst: KJH

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	2.829	0.100	100.00	107.28	-7.3	20.0	PASS	PASS
2-Chloroethyl vinyl ether	0.585	0.100	200.00	116.47	41.8	40.0	FAIL	PASS
Tetrachloroethene (PCE)	1.335	0.100	100.00	105.99	-6.0	30.0	PASS	PASS
cis-1,3-dichloropropene	2.104	0.100	100.00	101.40	-1.4	30.0	PASS	PASS
2-Hexanone	0.920	0.100	200.00	202.11	-1.1	40.0	PASS	PASS
Bromodichloromethane	2.523	0.100	100.00	100.27	-0.3	30.0	PASS	PASS
Dibromomethane	1.184	0.100	100.00	102.03	-2.0	30.0	PASS	PASS
1,3-Dichloropropane	1.450	0.100	100.00	99.25	0.7	30.0	PASS	PASS
trans-1,3-dichloropropene	0.771	0.100	100.00	98.62	1.4	30.0	PASS	PASS
Ethylbenzene	3.093	0.100	100.00	105.16	-5.2	20.0	PASS	PASS
mp-Xylenes	2.848	0.100	200.00	211.36	-5.7	30.0	PASS	PASS
1,1,2-Trichloroethane	1.783	0.100	100.00	101.95	-1.9	30.0	PASS	PASS
Chlorobenzene	1.344	0.300	100.00	103.64	-3.6	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.458	0.100	100.00	103.35	-3.3	30.0	PASS	PASS
o-Xylene	2.802	0.100	100.00	105.22	-5.2	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.305	0.100	100.00	100.41	-0.4	30.0	PASS	PASS
Dibromochloromethane	1.342	0.100	100.00	103.37	-3.4	30.0	PASS	PASS
Isopropylbenzene	2.681	0.100	100.00	102.84	-2.8	30.0	PASS	PASS
Styrene	1.267	0.100	100.00	99.89	0.1	30.0	PASS	PASS
n-Propylbenzene	6.110	0.100	100.00	99.64	0.4	30.0	PASS	PASS
1,3,5-Trimethylbenzene	4.421	0.100	100.00	99.90	0.1	30.0	PASS	PASS
tert-Butylbenzene	4.785	0.100	100.00	98.03	2.0	30.0	PASS	PASS
2-Chlorotoluene	1.492	0.100	100.00	95.52	4.5	30.0	PASS	PASS
4-Bromofluorobenzene	1.736	0.100	50.00	42.61	14.8	30.0	PASS	PASS
sec-Butylbenzene	2.998	0.100	100.00	87.89	12.1	30.0	PASS	PASS
4-Chlorotoluene	1.578	0.100	100.00	96.99	3.0	30.0	PASS	PASS
Bromobenzene	1.401	0.100	100.00	103.60	-3.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	4.665	0.100	100.00	99.66	0.3	30.0	PASS	PASS
4-Isopropyltoluene	4.733	0.100	100.00	96.92	3.1	30.0	PASS	PASS
Bromoform	1.653	0.100	100.00	96.12	3.9	30.0	PASS	PASS
1,2,3-Trichloropropane	1.273	0.100	100.00	94.71	5.3	30.0	PASS	PASS
n-Butylbenzene	4.611	0.100	100.00	100.38	-0.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	1.849	0.300	100.00	100.99	-1.0	30.0	PASS	PASS
1,3-Dichlorobenzene	2.113	0.100	100.00	100.89	-0.9	30.0	PASS	PASS
1,4-Dichlorobenzene	2.032	0.100	100.00	100.23	-0.2	30.0	PASS	PASS
1,2-Dichlorobenzene	2.028	0.100	100.00	99.98	0.0	30.0	PASS	PASS
Hexachlorobutadiene	4.341	0.100	100.00	89.37	10.6	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	0.787	0.100	100.00	101.11	-1.1	30.0	PASS	PASS
1,2,4-Trichlorobenzene	1.566	0.100	100.00	99.04	1.0	30.0	PASS	PASS
1,2,3-Trichlorobenzene	1.612	0.100	100.00	101.28	-1.3	30.0	PASS	PASS
Naphthalene	2.901	0.100	100.00	94.05	5.9	30.0	PASS	PASS
2-Methylnaphthalene	2.190	0.100	100.00	96.91	3.1	40.0	PASS	PASS
1-Methylnaphthalene	2.049	0.100	100.00	93.74	6.3	40.0	PASS	PASS

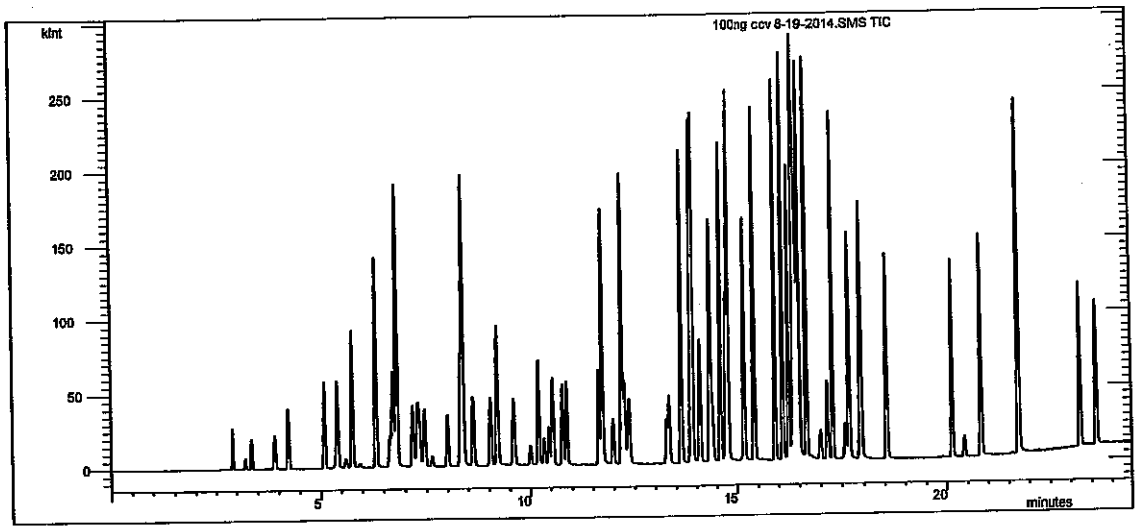
nc KJH 8/20/14

JPB 8/20/14

Analyst: KJH

8260B/624 Report

Sample Name:	100ng ccv	**Operator Name:**	Kaitlyn Hughes	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0463	**Acquisition Date:**	8/19/2014 9:59:44 AM
Calculation Date:	8/19/2014 10:24:13 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	8.004	636	Identified	26010	50.000
Benzene-d5-, chloro-	14.315	1194	Identified	38093	50.000
1,4-Dichlorobenzene-d4	17.918	1513	Identified	21741	50.000
Dichlorodifluoromethane	2.906	185	Identified	84271	118.742
Chloromethane	3.209	211	Identified	19092	79.730
Vinyl chloride	3.357	225	Identified	71853	102.267
Chloroethane	3.892	272	Identified	11943	102.509
Bromomethane	3.908	274	Identified	59016	135.463
Trichlorofluoromethane	4.232	302	Identified	47462	110.023
1,1-Dichloroethene	5.094	379	Identified	70271	112.573
Acetone	5.372	403	Identified	44649	175.928
Carbon disulfide	5.407	406	Identified	119779	245.395
Iodomethane	5.608	424	Identified	13667	68.211
Methyl tert-butyl ether (MTBE)	5.760	438	Identified	137990	211.546
Isopropyl ether	6.320	487	Identified	156624	224.487
tert-Butyl alcohol	6.648	516	Identified	305885	2165.210
trans-1,2-DCE	6.721	522	Identified	79260	109.682
tert-Butyl ethyl ether	6.808	530	Identified	307881	224.936
1,1-Dichloroethane	7.180	563	Identified	75582	100.737
Methylene Chloride	7.302	574	Identified	78407	102.788
Vinyl Acetate	7.356	578	Identified	235163	251.912
2,2-Dichloropropane	7.462	588	Identified	47241	113.389
2-Butanone	7.648	604	Identified	52818	187.219
1,1,1-Trichloroethane	8.319	664	Identified	79820	103.514

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.374	668	Identified	148885	208.687
1,1-Dichloropropene	8.390	670	Identified	37311	108.024
Carbon Tetrachloride	8.620	690	Identified	162526	101.472
cis-1,2-DCE	9.036	727	Identified	105772	105.448
Benzene	9.201	742	Identified	100767	107.306
Chloroform	9.596	776	Identified	74683	116.213
Bromochloromethane	10.009	813	Identified	27486	121.191
Trichloroethene (TCE)	10.198	829	Identified	74413	118.747
Dibromofluoromethane	10.338	842	Identified	42389	47.305
1,2-Dichloroethane-d4	10.453	852	Identified	117795	49.420
1,2-Dichloroethane (EDC)	10.548	861	Identified	91639	106.886
1,2-Dichloropropane	10.776	881	Identified	100822	105.899
4-Methyl-2-pentanone	10.872	889	Identified	209194	214.214
Toluene-d8	11.641	957	Identified	69358	46.534
Toluene	11.721	964	Identified	215522	107.278
2-Chloroethyl vinyl ether	11.980	987	Identified	89111	116.471
Tetrachloroethene (PCE)	12.184	1005	Identified	101732	105.991
cis-1,3-dichloropropene	12.187	1005	Identified	160287	101.398
2-Hexanone	12.190	1006	Identified	140245	202.105
Bromodichloromethane	12.256	1011	Identified	192245	100.271
Dibromomethane	12.360	1021	Identified	90196	102.026
1,3-Dichloropropane	13.261	1100	Identified	110491	99.250
trans-1,3-dichloropropene	13.324	1106	Identified	58734	98.623
Ethylbenzene	13.620	1132	Identified	235654	105.158
mp-Xylenes	13.871	1154	Identified	433893	211.357
1,1,2-Trichloroethane	14.074	1172	Identified	135837	101.949
Chlorobenzene	14.338	1196	Identified	102428	103.642
1,2-Dibromoethane (EDB)	14.395	1201	Identified	111052	103.346
o-Xylene	14.587	1218	Identified	213465	105.220
1,1,1,2-Tetrachloroethane	14.716	1229	Identified	175629	100.410
Dibromochloromethane	14.744	1232	Identified	102209	103.373
Isopropylbenzene	14.779	1235	Identified	204269	102.842
Styrene	15.172	1270	Identified	96494	99.888
n-Propylbenzene	15.414	1291	Identified	265682	99.644
1,3,5-Trimethylbenzene	15.904	1334	Identified	192244	99.898
tert-Butylbenzene	16.100	1351	Identified	208072	98.032
2-Chlorotoluene	16.248	1365	Identified	64859	95.522
4-Bromofluorobenzene	16.345	1373	Identified	37750	42.607
sec-Butylbenzene	16.375	1376	Identified	130359	87.887
4-Chlorotoluene	16.412	1379	Identified	68616	96.991
Bromobenzene	16.452	1383	Identified	60914	103.602
1,2,4-Trimethylbenzene	16.503	1387	Identified	202850	99.660
4-Isopropyltoluene	16.664	1402	Identified	205799	96.925
Bromoform	16.995	1431	Identified	71877	96.118
1,2,3-Trichloropropane	17.166	1446	Identified	55367	94.707
n-Butylbenzene	17.291	1457	Identified	200502	100.380
1,1,2,2-Tetrachloroethane	17.587	1484	Identified	80413	100.994
1,3-Dichlorobenzene	17.672	1491	Identified	91895	100.892
1,4-Dichlorobenzene	17.946	1516	Identified	88363	100.235
1,2-Dichlorobenzene	18.551	1569	Identified	88178	99.977

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.135	1709	Identified	188753	89.373
1,2-Dibromo-3-chloropropane	20.422	1735	Identified	34203	101.106
1,2,4-Trichlorobenzene	20.833	1771	Identified	68079	99.037
1,2,3-Trichlorobenzene	21.736	1851	Identified	70098	101.281
Naphthalene	21.744	1852	Identified	126123	94.051
2-Methylnaphthalene	23.229	1987	Identified	95203	96.906
1-Methylnaphthalene	23.617	2023	Identified	89092	93.736

****
Revision Log
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8/19/2014 10:24 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: VAL Continuing Cal. Sample Date: 8/19/2014 Time: 9:31

Heated Purge (Y/N): No Initial Cal. Sample Date: 7/7/2014 7/7/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 2:27 2:27

Initial Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Lab File ID: c:\varianws\data\gro\2.0ug ccv gro 8-19-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
GRO	2342.339	0.100	2.25	1.86	17.3	20.0	PASS	PASS
BFB	0.989	0.100	50.00	47.50	5.0	30.0	PASS	PASS

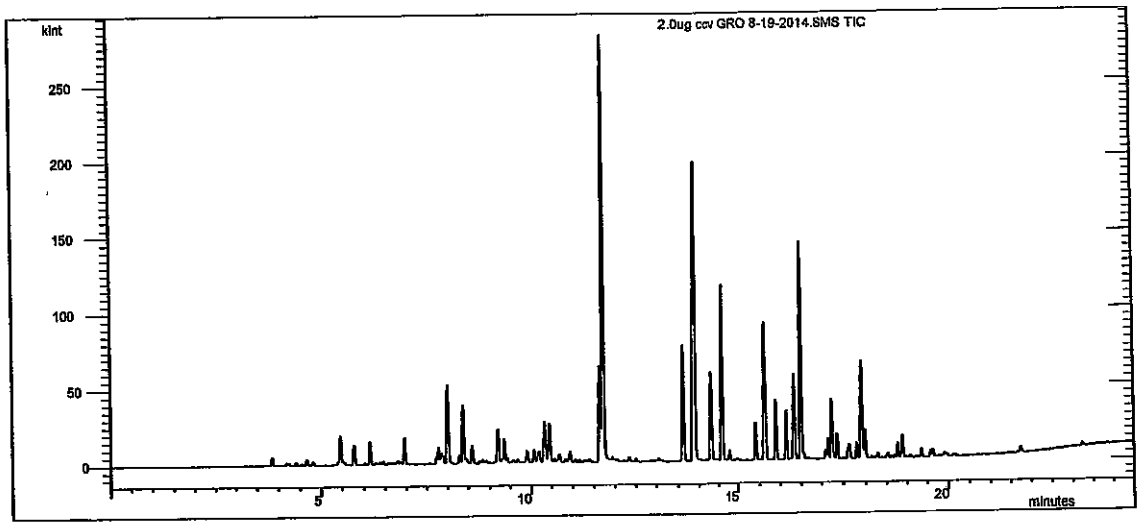
KJH 8/20/14

8/19/2014 10:11 Page 1 of 1 2.0ug ccv gro 8-19-2014.sms

Analyst: KJH

8015D MOD GRO

Sample Name:	2.0ug ccv GRO	**Operator Name:**	Kaitlyn Hughes	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-18-2061	**Acquisition Date:**	8/19/2014 9:31:45 AM
Calculation Date:	8/19/2014 10:10:19 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Benzene-d5-, chloro-	14.314	1194	Identified	39479	50.000
GRO	11.000	902	Identified	4.161E6	1.860
BFB	16.344	1374	Identified	39037	47.498

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Revision Log
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8/19/2014 9:56 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/19/2014 10:10 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\070614v GRO.mth'

eList: C:\VarianWS\080114v.smp

ed: Fri Aug 01 08:33:12 2014
ied: Mon Aug 04 08:33:28 2014

****

ne	Sample Name	Injection Notes
1	5mL-rb	below
	Notes All injections contain V-52-0489	
2	rtm	below
	Notes V-18-2064	
3	2.0ng ccv GRO	below
	Notes V-18-2061	
4	2.5ng lcs GRO	below
	Notes V-18-2036	
5	50ng ccv	below
	Notes V-54-0452	
6	100ng lcs	below
	Notes V-11-8059	
7	50ng ccvb	below
	Notes V-54-0454	
8	100ng lcsb	below
	Notes V-11-8059	
9	tt	none
10	b1	none
11	50ng ccvc	below
	Notes V-54-0455	
12	50ng ccvc2	below
	Notes V-54-0456	
13	50ng ccvc3	below
	Notes V-54-0457	
14	100ng lcsc	below
	Notes V-11-8059	
15	b2	below
	Notes All injections contain V-52-0492	
16	b3	none
17	b4	none
18	b5	none
19	b6	none time @ 7:00
20		
21	2ng crv	below
	Notes V-54-0458	
22	5ng crv	below
	Notes V-54-0458	
23	10ng crv	below
	Notes V-54-0458	
24	25ng crv	below
	Notes V-54-0458	
25	50ng crv	below
	Notes V-54-0458	
26	100ng crv	below
	Notes V-54-0458	
27	227.27ng crv	below
	Notes V-54-0458	
28	500ng crv	below
	Notes V-54-0458	
29	b7	none
30	b8	none
31	100ng icv	below
	Notes V-54-0446	
32	b9	none
33		

Loaded By: KSH 8/1/14
1st Review By: N/A
QA'd By:

N-all

Loaded By: RA 8/1/14
1st Review By KSH 8/4/14
QA'd By:

rectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\080114v.rcl.

Calibration Summary

Instrument: V61 **Date:** 8/4/14

Calibration Name: 080114v 8260,624

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☒	☒	☐	Ks-hits UQL: 227.27ng
Chloromethane	☐	☐	☐	☐	
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☒	☐	ogL: 10ng
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☒	☐	☐	ss-hits
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☒	☐	ogL: 50ng
Methyl tert-butyl ehter (MTBE)	☐	☐	☐	☐	
Isopropyl ether	☐	☐	☐	☐	
tert-Butyl alcohol	☐	☐	☐	☐	
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☐	☐	
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☐	☐	
2-Butanone	☐	☐	☐	☐	
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☐	☐	
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved for Use at Heal on 3/7/2014 by: _____ and _____

Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☐	☐	☐	☐	
1,1,2-Trichloroethane	☐	☐	☐	☐	
Chlorobenzene	☐	☐	☐	☐	
1,2-Dibromoethane (EDB)	☐	☐	☐	☐	
o-Xylene	☐	☐	☐	☐	
1,1,1,2-Tetrachloroethane	☐	☐	☐	☐	
Dibromochloromethane	☐	☐	☐	☐	
Isopropylbenzene	☐	☐	☐	☐	
Styrene	☐	☐	☐	☐	
n-Propylbenzene	☐	☐	☐	☐	
1,3,5-Trimethylbenzene	☐	☐	☐	☐	
tert-Butylbenzene	☐	☐	☐	☐	
2-Chlorotoluene	☐	☐	☐	☐	
4-Bromofluorobenzene	N/A	N/A	☐	☐	
Bromobenzene	☐	☐	☐	☐	
4-Chlorotoluene	☐	☐	☐	☐	
sec-Butylbenzene	☐	☐	☒	☐	UQL: 227.27ns
1,2,4-Trimethylbenzene	☐	☐	☐	☐	
4-Isopropyltoluene	☐	☐	☐	☐	
Bromoform	☐	☐	☐	☐	
1,2,3-Trichloropropane	☐	☐	☐	☐	
n-Butylbenzene	☐	☐	☐	☐	
1,1,2,2-Tetrachloroethane	☐	☐	☐	☐	
1,3-Dichlorobenzene	☐	☐	☐	☐	
1,4-Dichlorobenzene	☐	☐	☐	☐	
1,2-Dichlorobenzene	☐	☐	☐	☐	
Hexachlorobutadiene	☐	☐	☐	☐	
1,2-Dibromo-3-chloropropane	☐	☐	☐	☐	
1,2,4-Trichlorobenzene	☐	☐	☐	☐	
Naphthalene	☐	☐	☐	☐	
1,2,3-Trichlorobenzene	☐	☐	☐	☐	
2-Methylnaphthalene	☐	☐	☐	☐	
1-Methylnaphthalene	☐	☐	☐	☐	

Analyst: KSH 8/4/14

QA: M 8-4-14

Additional Comments: All RTs checked, verified, and updated.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/624

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): \val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS Lab Sample ID: 100ng crv

Instrument ID: VAL Date Analyzed: 8/1/2014 Time Analyzed: 21:56

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	45401	7.99	63535	14.30	34251	17.91						
UPPER LIMIT	90802	8.49	127070	14.80	68502	18.41						
LOWER LIMIT	22701	7.49	31768	13.80	17126	17.41						
EPA SAMPLE NO												
2.0ng ccv	44986	7.99	65069	14.30	36999	17.90						
b1 8-1-201	42817	7.99	61698	14.30	33824	17.90						
b2 8-1-201	45532	7.97	58793	14.31	28398	17.91						
b3 8-1-201	43157	8.00	58715	14.31	29520	17.91						
b4 8-1-201	42082	8.00	57659	14.31	29774	17.92						
b5 8-1-201	43105	7.99	56767	14.31	29934	17.91						
b6 8-1-201	42180	8.00	56126	14.31	30524	17.91						
2ng crv 8-	42462	8.00	59560	14.31	31134	17.91						
5ng crv 8-	43812	7.99	60228	14.31	30192	17.91						
10ng crv 8	43222	7.99	59939	14.31	31769	17.91						
25ng crv 8	42159	7.99	60265	14.30	32061	17.91						
50ng crv 8	40895	7.99	58241	14.30	32693	17.91						
227.27ng c	42875	7.99	62339	14.30	35364	17.91						
500ng crv	47976	7.99	66140	14.30	36254	17.91						
b7 8-1-201	44392	7.98	61227	14.30	31775	17.90						
b8 8-1-201	42233	7.98	61105	14.30	32727	17.90						

√ 8.4.14

KJH 8/4/14

Internal Standard And RT Summary

8/4/2014 9:03

Analyst: KJH

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
100ng icv	42059	7.99	59018	14.30	34060	17.90						
b9 8-2-201	43349	7.98	61384	14.30	33328	17.90						

KSH
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IS1 = Pentafluorobenzene
IS2 = Benzene-d5-, chloro-
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JH 8.4.14

Internal Standard And RT Summary

8/4/2014 9:03
Analyst: KJH

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b6 8-1-2014.sms Injection Date: 8/1/2014

Instrument ID: VAL Injection Time: 19:00

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.5	
173	<2% of m/z 174	0.2 (0.4)	174
174	>50% of m/z 95	59.4	
175	5-9% of m/z 174	4.4 (7.4)	174
176	>95% but <101% of m/z 174	59.2 (99.7)	174
177	5-9% of m/z 176	3.6 (6.0)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 2.0ng ccv	2.0ng ccv GRO	h:\val\data\2014v\0814v\080114v crv\2.0ng ccv GRO 8-1-2014.SMS	8/1/2014 9:58
4b1 8-1-201	b1	h:\val\data\2014v\0814v\080114v crv\b1 8-1-2014.SMS	8/1/2014 13:14
5b2 8-1-201	b2	h:\val\data\2014v\0814v\080114v crv\b2 8-1-2014.SMS	8/1/2014 17:08
6b3 8-1-201	b3	h:\val\data\2014v\0814v\080114v crv\b3 8-1-2014.SMS	8/1/2014 17:36
7b4 8-1-201	b4	h:\val\data\2014v\0814v\080114v crv\b4 8-1-2014.SMS	8/1/2014 18:04
8b5 8-1-201	b5	h:\val\data\2014v\0814v\080114v crv\b5 8-1-2014.SMS	8/1/2014 18:32
9b6 8-1-201	b6	h:\val\data\2014v\0814v\080114v crv\b6 8-1-2014.SMS	8/1/2014 19:00
102ng crv 8-	2ng crv	h:\val\data\2014v\0814v\080114v crv\2ng crv 8-1-2014.SMS	8/1/2014 19:31
11 5ng crv 8-	5ng crv	h:\val\data\2014v\0814v\080114v crv\5ng crv 8-1-2014.SMS	8/1/2014 20:01
12 10ng crv 8	10ng crv	h:\val\data\2014v\0814v\080114v crv\10ng crv 8-1-2014.SMS	8/1/2014 20:32
13 25ng crv 8	25ng crv	h:\val\data\2014v\0814v\080114v crv\25ng crv 8-1-2014.SMS	8/1/2014 21:00
14 50ng crv 8	50ng crv	h:\val\data\2014v\0814v\080114v crv\50ng crv 8-1-2014.SMS	8/1/2014 21:28

KJH 8/4/14

Analyst: KJH

8-4-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
15	100ng crv	100ng crv	h:\val\data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS	8/1/2014 21:56
16	227.27ng c	227.27ng crv	h:\val\data\2014v\0814v\080114v crv\227.27ng crv 8-1-2014.SMS	8/1/2014 22:24
17	500ng crv	500ng crv	h:\val\data\2014v\0814v\080114v crv\500ng crv 8-1-2014.SMS	8/1/2014 22:52
18	b7 8-1-201	b7	h:\val\data\2014v\0814v\080114v crv\b7 8-1-2014.SMS	8/1/2014 23:19
19	b8 8-1-201	b8	h:\val\data\2014v\0814v\080114v crv\b8 8-1-2014.SMS	8/1/2014 23:47
20	100ng icv	100ng icv	h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS	8/2/2014 0:15
21	b9 8-2-201	b9	h:\val\data\2014v\0814v\080114v crv\b9 8-2-2014.SMS	8/2/2014 0:43

KJH 8/4/14

8/4/14

Analyst: KJH

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/624

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 8/1/2014 | 8/1/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 22:52 | 22:52

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/1/2014 22:52	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Dichlorodifluoromethane	1.074	1.408	1.346	1.399	1.416	1.295	1.233		0.9987	1.310	9.4	PASS	PASS
Chloromethane	0.478	0.361	0.352	0.353	0.457	0.497	0.484	0.453	0.9986	0.430	14.6	PASS	PASS
Vinyl chloride	0.975	0.901	0.973	0.998	1.333	1.427	1.417	1.342	0.9990	1.171	19.4	PASS	PASS
Chloroethane		0.170	0.155	0.167	0.222	0.223	0.237	0.226	0.9992	0.200	17.2	PASS	PASS
Bromomethane	0.759	0.747	0.833	0.789	0.923	0.864	0.816	0.837	0.9997	0.821	7.0	PASS	PASS
Trichlorofluoromethane	0.826	0.924	0.914	0.898	0.938	0.857	0.837	0.803	0.9995	0.875	5.8	PASS	PASS
1,1-Dichloroethene	0.799	0.836	0.909	1.130	1.315	1.219	1.233	1.185	0.9995	1.078	18.5	PASS	PASS
Acetone	0.906	0.572	0.500	0.513	0.475	0.426	0.476	0.500	0.9987	0.546	27.7	PASS	PASS
Carbon disulfide	1.050	1.018	1.041	0.967	1.022	0.961	0.960	0.911	0.9994	0.991	4.9	PASS	PASS
Iodomethane		0.155	0.214	0.271	0.392	0.459	0.582	0.664	0.9995	0.391	48.6	PASS	PASS
Methyl tert-butyl ether (MTBE)	1.266	1.273	1.345	1.326	1.353	1.284	1.262	1.229	0.9998	1.292	3.4	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Isopropyl ether	0.873	0.948	1.343	1.447	1.528	1.460	1.415	1.266	0.9968	1.285	19.1	PASS	PASS
tert-Butyl alcohol	0.146	0.156	0.180	0.218	0.233	0.267	0.282	0.278	0.9997	0.220	24.7	PASS	PASS
trans-1,2-DCE	0.760	0.824	1.187	1.385	1.508	1.415	1.410	1.377	0.9997	1.233	23.3	PASS	PASS
tert-Butyl ethyl ether	1.619	2.135	2.997	2.869	3.019	2.911	2.687	2.501	0.9982	2.592	19.0	PASS	PASS
1,1-Dichloroethane	0.829	0.822	0.997	1.140	1.391	1.466	1.488	1.460	0.9998	1.199	24.1	PASS	PASS
Methylene Chloride	1.353	1.019	1.111	1.232	1.445	1.474	1.518	1.470	0.9997	1.328	14.0	PASS	PASS
Vinyl Acetate	0.807	0.987	1.125	1.452	1.716	1.849	1.897	1.783	0.9989	1.452	29.4	PASS	PASS
2,2-Dichloropropane	0.876	0.871	0.917	0.856	0.871	0.812	0.799	0.786	0.9999	0.849	5.3	PASS	PASS
2-Butanone	0.498	0.439	0.490	0.433	0.445	0.487	0.624	0.703	0.9992	0.515	18.9	PASS	PASS
1,1,1-Trichloroethane	1.214	1.293	1.571	1.485	1.560	1.504	1.508	1.460	0.9998	1.449	8.8	PASS	PASS
tert-Amyl methyl ether	1.344	1.359	1.431	1.411	1.463	1.397	1.381	1.350	0.9998	1.392	3.0	PASS	PASS
1,1-Dichloropropene	0.668	0.672	0.750	0.678	0.736	0.709	0.694	0.631	0.9979	0.692	5.6	PASS	PASS
Carbon Tetrachloride	2.761	3.092	3.275	3.118	3.345	3.167	3.124	3.009	0.9996	3.111	5.7	PASS	PASS
cis-1,2-DCE	1.467	1.519	1.764	1.911	2.047	1.951	1.950	1.914	0.9999	1.815	11.8	PASS	PASS
Benzene	1.742	1.747	1.946	1.812	1.898	1.822	1.801	1.792	1.0000	1.820	3.9	PASS	PASS
Chloroform	0.971	1.048	1.238	1.252	1.329	1.251	1.242	1.222	0.9999	1.194	10.1	PASS	PASS
Bromochloromethane	0.303	0.418	0.470	0.451	0.500	0.455	0.457	0.415	0.9978	0.434	13.7	PASS	PASS
Trichloroethene (TCE)	1.140	1.200	1.269	1.243	1.316	1.208	1.215	1.185	0.9998	1.222	4.4	PASS	PASS
Dibromofluoromethane	1.621	1.626	1.706	1.713	1.823	1.785	1.830	1.751	0.9994	1.732	4.7	PASS	PASS
1,2-Dichloroethane-d4	3.973	4.075	4.351	4.602	5.057	4.941	5.017	5.087	0.9999	4.638	9.8	PASS	PASS
1,2-Dichloroethane (EDC)	0.899	0.957	1.280	1.557	1.725	1.625	1.647	1.670	0.9999	1.420	23.4	PASS	PASS
1,2-Dichloropropane	1.182	1.191	1.393	1.642	1.959	1.886	1.872	1.817	0.9996	1.618	19.8	PASS	PASS
4-Methyl-2-pentanone	1.172	1.258	1.480	1.815	1.914	1.864	1.919	1.880	0.9999	1.663	18.7	PASS	PASS
Toluene-d8	1.862	1.861	1.914	1.924	2.083	2.059	2.017	2.083	0.9998	1.976	4.8	PASS	PASS
Toluene	2.383	2.616	2.900	2.709	2.841	2.759	2.574	2.613	0.9998	2.674	6.1	PASS	PASS
2-Chloroethyl vinyl ether	0.607	0.693	0.858	1.025	1.125	1.066	1.004	1.001	0.9996	0.922	20.1	PASS	PASS
Tetrachloroethene (PCE)	1.145	1.277	1.406	1.321	1.406	1.347	1.245	1.228	0.9996	1.297	7.0	PASS	PASS
cis-1,3-dichloropropene	1.966	1.940	2.163	1.947	2.027	2.015	1.973	2.145	0.9987	2.022	4.3	PASS	PASS
2-Hexanone	0.492	0.768	0.973	1.009	0.942	0.913	0.871	0.924	0.9993	0.861	19.2	PASS	PASS
Bromodichloromethane	1.742	2.119	2.577	2.480	2.561	2.528	2.404	2.572	0.9992	2.373	12.5	PASS	PASS
Dibromomethane	1.164	1.117	1.224	1.197	1.254	1.184	1.126	1.159	0.9997	1.178	4.0	PASS	PASS
1,3-Dichloropropane	1.277	1.418	1.584	1.507	1.536	1.478	1.410	1.470	0.9996	1.460	6.4	PASS	PASS
trans-1,3-dichloropropene	0.623	0.743	0.811	0.779	0.768	0.804	0.759	0.790	0.9997	0.760	7.8	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

JM 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
Ethylbenzene	2.301	2.784	3.106	2.982	3.124	3.054	2.882	2.927	0.9998	2.895	9.2	PASS	PASS
mp-Xylenes	2.138	2.632	2.867	2.717	2.878	2.748	2.701	2.661	0.9999	2.668	8.7	PASS	PASS
1,1,2-Trichloroethane	1.173	1.417	1.648	1.649	1.776	1.762	1.729	1.768	0.9999	1.615	13.3	PASS	PASS
Chlorobenzene	1.120	1.213	1.358	1.273	1.323	1.321	1.253	1.312	0.9996	1.272	6.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.378	1.489	1.552	1.454	1.485	1.404	1.345	1.428	0.9993	1.442	4.6	PASS	PASS
o-Xylene	2.229	2.556	2.784	2.713	2.897	2.750	2.630	2.635	0.9998	2.649	7.5	PASS	PASS
1,1,1,2-Tetrachloroethane	2.101	2.225	2.324	2.384	2.385	2.335	2.252	2.295	0.9999	2.288	4.1	PASS	PASS
Dibromochloromethane	1.204	1.303	1.401	1.293	1.329	1.301	1.268	1.306	0.9998	1.301	4.2	PASS	PASS
Isopropylbenzene	2.339	2.520	2.661	2.615	2.754	2.662	2.567	2.600	0.9999	2.590	4.8	PASS	PASS
Styrene	1.033	1.137	1.245	1.220	1.283	1.249	1.225	1.296	0.9994	1.211	7.1	PASS	PASS
n-Propylbenzene	4.875	6.086	6.668	6.262	6.313	6.347	5.907	6.163	0.9996	6.078	8.8	PASS	PASS
1,3,5-Trimethylbenzene	4.249	4.774	4.899	4.747	4.712	4.646	4.344	4.358	0.9998	4.591	5.2	PASS	PASS
tert-Butylbenzene	5.065	5.424	5.484	5.200	5.160	5.167	4.698	4.839	0.9996	5.130	5.2	PASS	PASS
2-Chlorotoluene	1.452	1.664	1.679	1.624	1.591	1.622	1.523	1.557	0.9998	1.589	4.8	PASS	PASS
4-Bromofluorobenzene	1.934	2.026	2.011	2.085	2.042	2.176	2.008	2.033	0.9996	2.039	3.4	PASS	PASS
sec-Butylbenzene	2.802	3.176	3.497	3.296	3.380	3.409	3.428		1.0000	3.284	7.2	PASS	PASS
4-Chlorotoluene	1.324	1.456	1.690	1.581	1.590	1.645	1.582	1.653	0.9996	1.565	7.7	PASS	PASS
Bromobenzene	1.165	1.420	1.521	1.479	1.457	1.486	1.301	1.328	0.9993	1.395	8.6	PASS	PASS
1,2,4-Trimethylbenzene	4.371	4.687	4.898	4.917	4.910	4.858	4.583	4.651	0.9998	4.734	4.1	PASS	PASS
4-Isopropyltoluene	4.459	4.796	5.141	5.054	5.055	5.117	4.753	4.867	0.9997	4.905	4.8	PASS	PASS
Bromoform	1.310	1.676	1.787	1.658	1.636	1.676	1.596	1.799	0.9975	1.642	9.2	PASS	PASS
1,2,3-Trichloropropane	1.190	1.524	1.517	1.460	1.373	1.368	1.287	1.351	0.9995	1.384	8.3	PASS	PASS
n-Butylbenzene	2.981	4.011	4.496	4.655	4.625	4.665	4.497	4.638	0.9998	4.321	13.5	PASS	PASS
1,1,2,2-Tetrachloroethane	1.554	1.672	1.725	1.844	1.803	1.781	1.741	1.891	0.9988	1.751	6.0	PASS	PASS
1,3-Dichlorobenzene	1.756	2.039	2.197	2.160	2.101	2.146	2.003	2.123	0.9993	2.065	6.8	PASS	PASS
1,4-Dichlorobenzene	1.604	1.899	2.103	2.024	2.063	2.131	1.900	2.064	0.9986	1.973	8.7	PASS	PASS
1,2-Dichlorobenzene	1.846	2.079	2.194	2.097	2.129	2.076	1.939	2.042	0.9994	2.050	5.4	PASS	PASS
Hexachlorobutadiene	4.606	4.714	5.044	4.971	5.110	4.848	4.681	4.906	0.9995	4.860	3.7	PASS	PASS
1,2-Dibromo-3-chloropropane	0.711	0.816	0.833	0.816	0.769	0.781	0.721	0.801	0.9980	0.781	5.8	PASS	PASS
1,2,4-Trichlorobenzene	1.129	1.423	1.492	1.516	1.629	1.577	1.546	1.604	0.9997	1.489	10.7	PASS	PASS
1,2,3-Trichlorobenzene	1.227	1.526	1.627	1.642	1.653	1.669	1.572	1.579	0.9998	1.562	9.2	PASS	PASS
Naphthalene	2.275	2.700	2.911	2.955	3.000	2.896	2.988	3.199	0.9990	2.865	9.6	PASS	PASS
2-Methylnaphthalene	1.486	2.035	2.169	2.301	2.210	2.212	2.218	2.302	0.9997	2.117	12.7	PASS	PASS

100ng crv 8-1-2014.SMS

8/4/2014 9:03

Analyst: KJH

KJH 8/4/14

KJH 8-4-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
1-Methylnaphthalene	1.605	2.040	2.159	2.235	2.122	2.156	2.106	2.240	0.9993	2.083	9.8	PASS	PASS
									Average %RSD		10.8		

KSH 8/4/14

J 8-4-14

8/4/2014 9:03

Analyst: KJH

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0814v\080114v crv\100ng icv 8-2-2014.SMS **Acquisition Date:** 8/2/2014 0:15

Comment: V-54-0446

SampleID: 100ng icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0814v\080114v crv\100ng crv 8-1-2014.SMS

Cal. Sample Dates: First: 8/1/2014 22:52 **Last:** 8/1/2014 22:52

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	50.00	ng	50.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	50.00	ng	50.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	140.44	ng	100.00	140 %	70 - 130	FAIL
2)	Chloromethane	119.08	ng	100.00	119 %	70 - 130	PASS
3)	Vinyl chloride	118.34	ng	100.00	118 %	80 - 120	PASS
4)	Chloroethane	104.58	ng	100.00	105 %	70 - 130	PASS
5)	Bromomethane	108.36	ng	100.00	108 %	70 - 130	PASS
6)	Trichlorofluoromethane	105.47	ng	100.00	105 %	70 - 130	PASS
7)	1,1-Dichloroethene	97.84	ng	100.00	98 %	80 - 120	PASS
8)	Acetone	331.44	ng	200.00	166 %	60 - 140	FAIL
9)	Carbon disulfide	230.19	ng	200.00	115 %	60 - 140	PASS
10)	Iodomethane	169.61	ng	200.00	85 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	207.49	ng	200.00	104 %	70 - 130	PASS
12)	Isopropyl ether	223.89	ng	200.00	112 %	60 - 140	PASS
13)	tert-Butyl alcohol	1995.83	ng	2000.00	100 %	60 - 140	PASS
14)	trans-1,2-DCE	103.44	ng	100.00	103 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	226.08	ng	200.00	113 %	60 - 140	PASS
16)	1,1-Dichloroethane	101.20	ng	100.00	101 %	70 - 130	PASS
17)	Methylene Chloride	99.91	ng	100.00	100 %	70 - 130	PASS
18)	Vinyl Acetate	191.05	ng	200.00	96 %	60 - 140	PASS
19)	2,2-Dichloropropane	97.59	ng	100.00	98 %	70 - 130	PASS
20)	2-Butanone	218.51	ng	200.00	109 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	104.51	ng	100.00	105 %	70 - 130	PASS
23)	tert-Amyl methyl ether	208.30	ng	200.00	104 %	60 - 140	PASS
24)	1,1-Dichloropropene	104.93	ng	100.00	105 %	70 - 130	PASS
25)	Carbon Tetrachloride	102.65	ng	100.00	103 %	70 - 130	PASS
26)	cis-1,2-DCE	102.42	ng	100.00	102 %	70 - 130	PASS
27)	Benzene	102.11	ng	100.00	102 %	70 - 130	PASS
28)	Chloroform	102.68	ng	100.00	103 %	80 - 120	PASS
29)	Bromochloromethane	108.43	ng	100.00	108 %	70 - 130	PASS
30)	Trichloroethene (TCE)	105.76	ng	100.00	106 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	101.12	ng	100.00	101 %	70 - 130	PASS
34)	1,2-Dichloropropane	106.55	ng	100.00	107 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	207.56	ng	200.00	104 %	60 - 140	PASS
37)	Toluene	105.73	ng	100.00	106 %	80 - 120	PASS
38)	2-Chloroethyl vinyl ether	211.41	ng	200.00	106 %	60 - 140	PASS
39)	Tetrachloroethene (PCE)	106.38	ng	100.00	106 %	70 - 130	PASS
40)	cis-1,3-dichloropropene	94.51	ng	100.00	95 %	70 - 130	PASS
41)	2-Hexanone	237.24	ng	200.00	119 %	60 - 140	PASS

5 hits on different crv.

8-4-14

KJH 8/4/14

Analyst: KJH

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Bromodichloromethane	100.57	ng	100.00	101 %	70 - 130	PASS
43)	Dibromomethane	104.97	ng	100.00	105 %	70 - 130	PASS
44)	1,3-Dichloropropane	100.38	ng	100.00	100 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	96.03	ng	100.00	96 %	70 - 130	PASS
46)	Ethylbenzene	104.71	ng	100.00	105 %	80 - 120	PASS
47)	mp-Xylenes	212.92	ng	200.00	106 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	98.48	ng	100.00	98 %	70 - 130	PASS
50)	Chlorobenzene	101.78	ng	100.00	102 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	103.14	ng	100.00	103 %	70 - 130	PASS
52)	o-Xylene	106.42	ng	100.00	106 %	70 - 130	PASS
53)	1,1,1,2-Tetrachloroethane	104.14	ng	100.00	104 %	70 - 130	PASS
54)	Dibromochloromethane	110.03	ng	100.00	110 %	70 - 130	PASS
55)	Isopropylbenzene	105.22	ng	100.00	105 %	70 - 130	PASS
56)	Styrene	101.06	ng	100.00	101 %	70 - 130	PASS
57)	n-Propylbenzene	97.75	ng	100.00	98 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	102.52	ng	100.00	103 %	70 - 130	PASS
59)	tert-Butylbenzene	103.51	ng	100.00	104 %	70 - 130	PASS
60)	2-Chlorotoluene	98.61	ng	100.00	99 %	70 - 130	PASS
62)	sec-Butylbenzene	91.71	ng	100.00	92 %	70 - 130	PASS
63)	4-Chlorotoluene	96.18	ng	100.00	96 %	70 - 130	PASS
64)	Bromobenzene	104.92	ng	100.00	105 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	100.00	ng	100.00	100 %	70 - 130	PASS
66)	4-Isopropyltoluene	101.77	ng	100.00	102 %	70 - 130	PASS
67)	Bromoform	91.68	ng	100.00	92 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	95.24	ng	100.00	95 %	70 - 130	PASS
69)	n-Butylbenzene	100.49	ng	100.00	100 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	97.72	ng	100.00	98 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	100.86	ng	100.00	101 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	98.62	ng	100.00	99 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	100.50	ng	100.00	101 %	70 - 130	PASS
75)	Hexachlorobutadiene	95.31	ng	100.00	95 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	96.95	ng	100.00	97 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	99.83	ng	100.00	100 %	70 - 130	PASS
78)	1,2,3-Trichlorobenzene	101.57	ng	100.00	102 %	70 - 130	PASS
79)	Naphthalene	94.30	ng	100.00	94 %	70 - 130	PASS
80)	2-Methylnaphthalene	93.62	ng	100.00	94 %	60 - 140	PASS
81)	1-Methylnaphthalene	87.99	ng	100.00	88 %	60 - 140	PASS

* indicates Internal Standard.

KJH 8/4/14

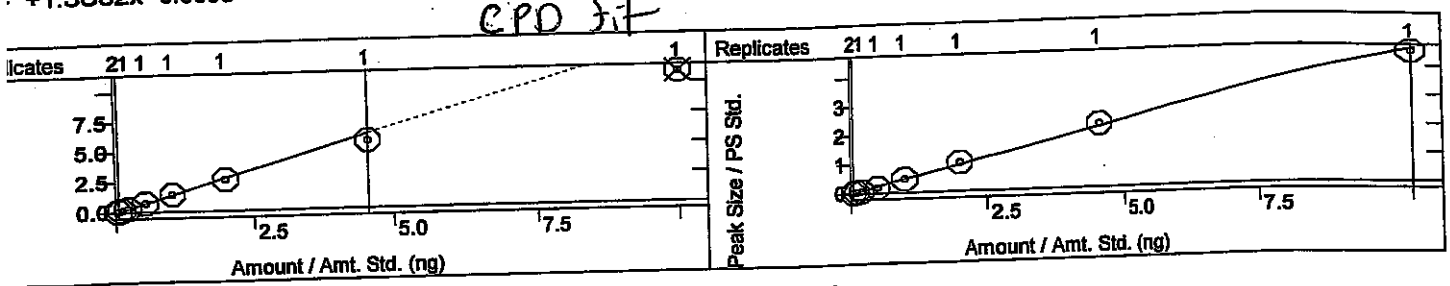
Analyst: KJH

hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
nple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ak Measurement:	Area		

hlorodifluoromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/nX2
sp. Fact. RSD: 9.430%, Coeff. Det.(r2): 0.998715
: +1.3682x -0.0093

Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.64%, Coeff. Det.(r2): 0.998605
y = +0.4643x -0.0064

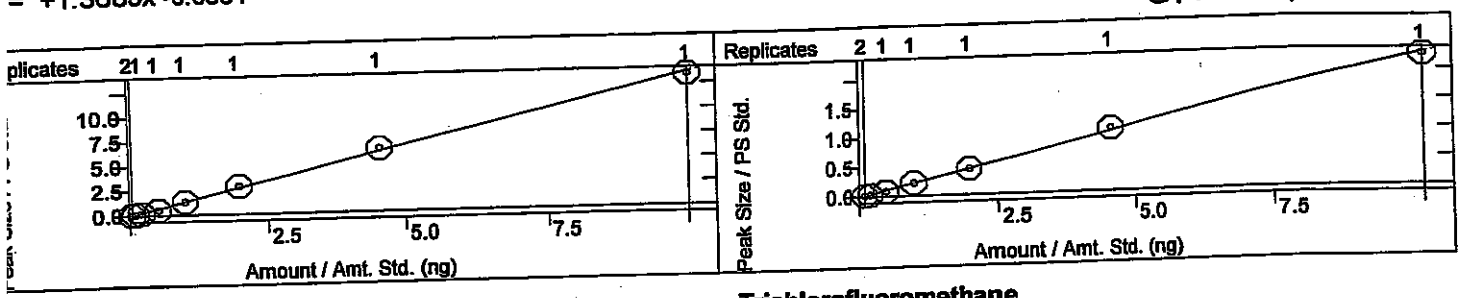
CPD Fit



inyl chloride
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998980
= +1.3683x -0.0361

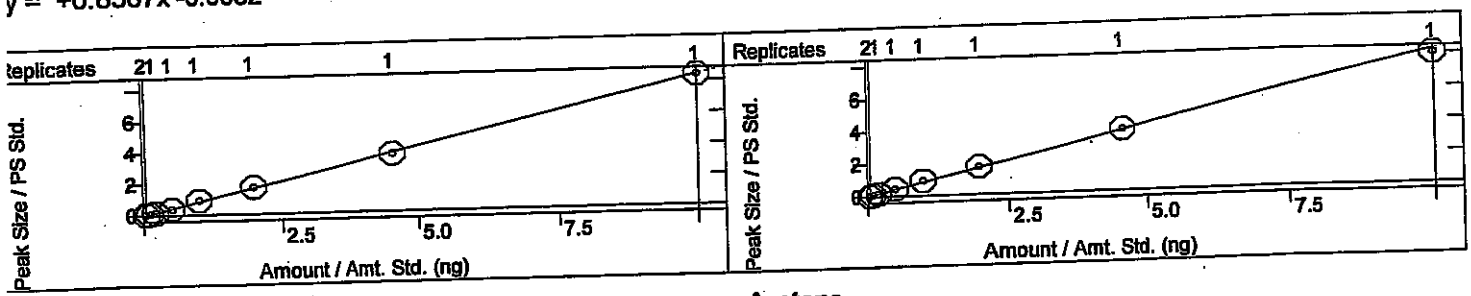
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 17.16%, Coeff. Det.(r2): 0.999219
y = +0.2293x -0.0110

CPD Fit



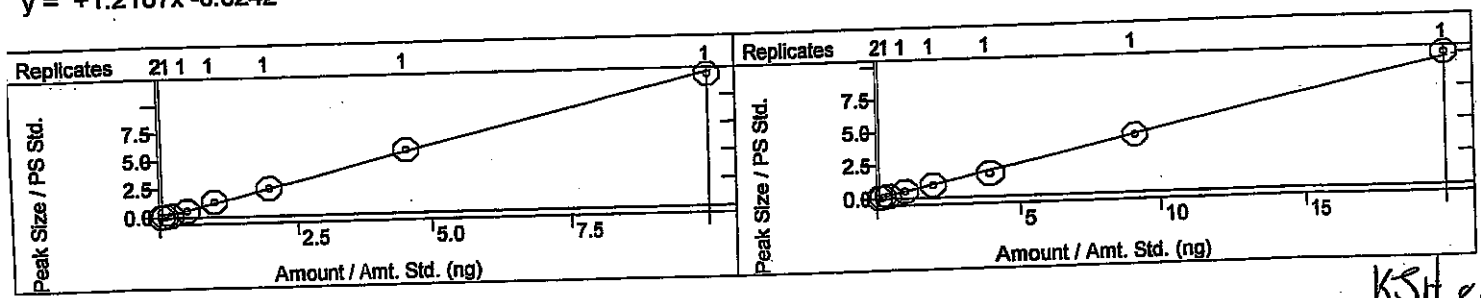
Bromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.995%, Coeff. Det.(r2): 0.999674
y = +0.8387x -0.0032

Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.773%, Coeff. Det.(r2): 0.999484
y = +0.8252x +0.0090



1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.53%, Coeff. Det.(r2): 0.999486
y = +1.2107x -0.0242

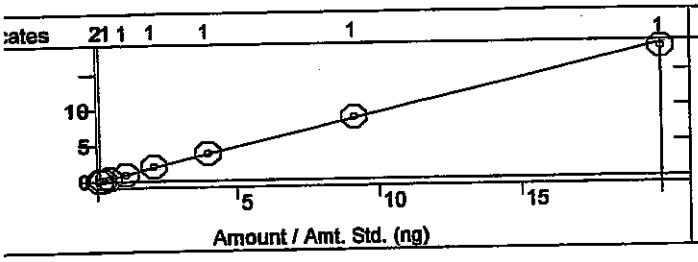
Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 27.67%, Coeff. Det.(r2): 0.998748
y = +0.4812x +0.0237



KSH 8/4/14

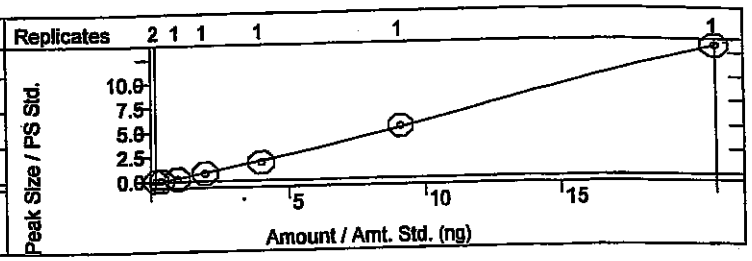
iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

bon disulfide
ve Fit: Linear, Origin: Ignore, Weight: 1/nX
p. Fact. RSD: 4.888%, Coeff. Det.(r2): 0.999402
+0.9341x +0.0209

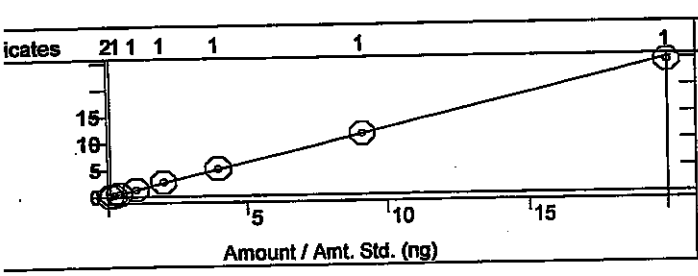


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 48.64%, Coeff. Det.(r2): 0.999466
y = +0.0079x2 +0.5160x -0.1933

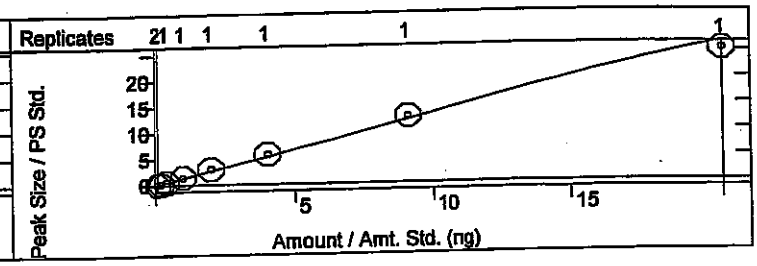
CPD Fit



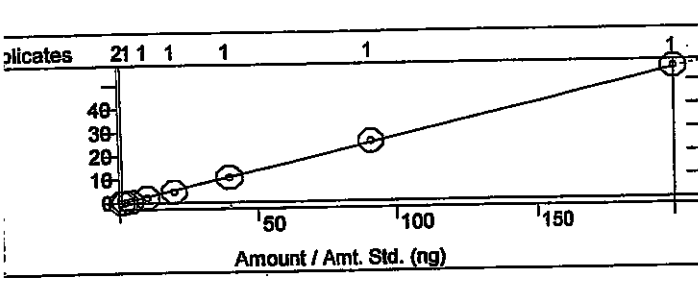
thyl tert-butyl ether (MTBE)
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.430%, Coeff. Det.(r2): 0.999792
+1.2503x +0.0152



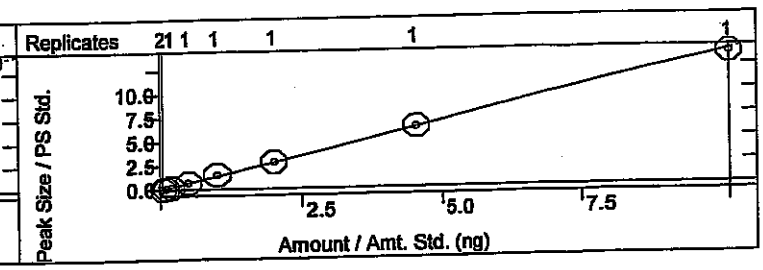
Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.06%, Coeff. Det.(r2): 0.996808
y = +1.3462x -0.0224



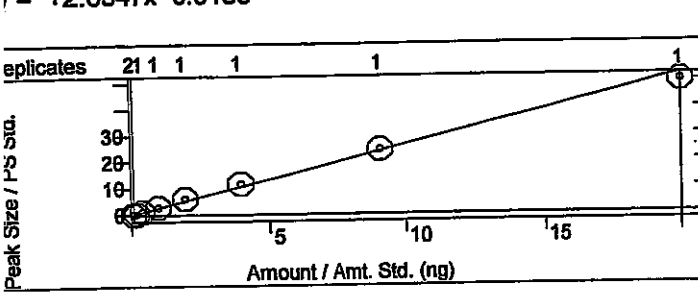
rt-Butyl alcohol
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 24.71%, Coeff. Det.(r2): 0.999735
= +0.2763x -0.2051



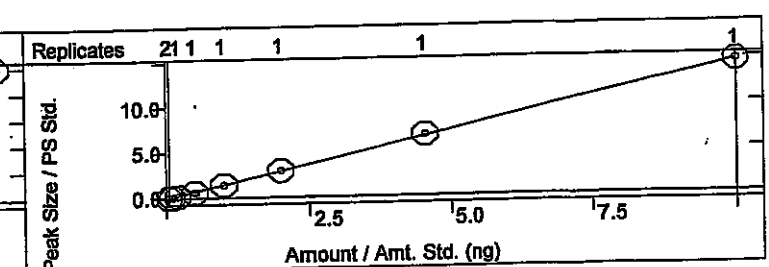
trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.28%, Coeff. Det.(r2): 0.999740
y = +1.4033x -0.0311



ert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.00%, Coeff. Det.(r2): 0.998150
= +2.6347x -0.0155



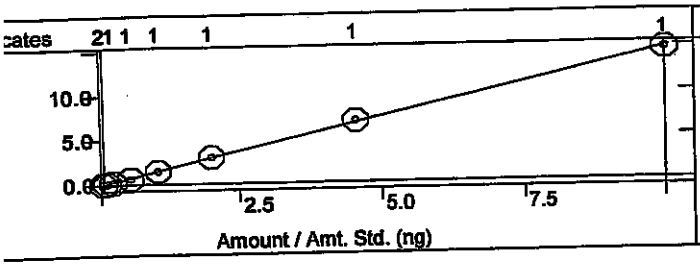
1,1-Dichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 24.09%, Coeff. Det.(r2): 0.999798
y = +1.4666x -0.0489



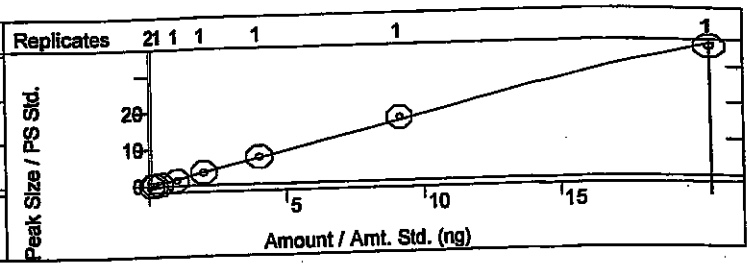
KSH 8/4/14

iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

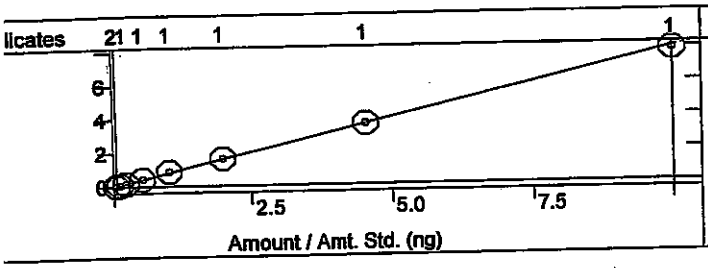
hylene Chloride
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999686
+1.4799x -0.0278



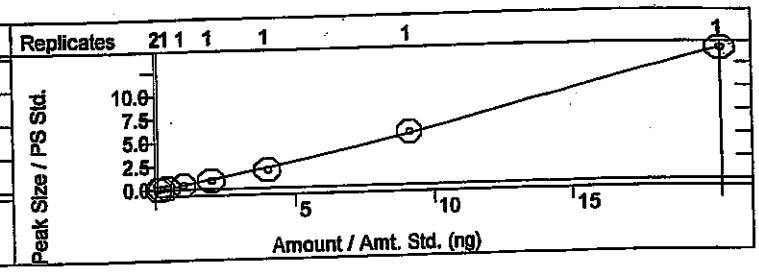
Vinyl Acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 29.38%, Coeff. Det.(r2): 0.998947
y = +1.8213x -0.1348



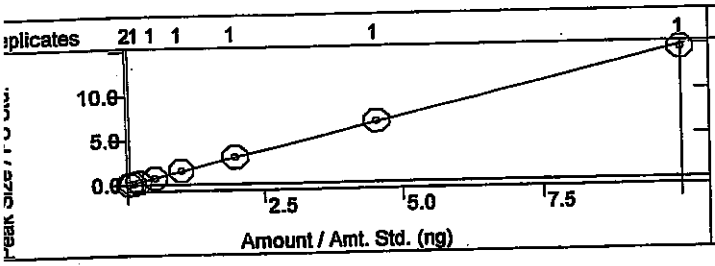
-Dichloropropane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.301%, Coeff. Det.(r2): 0.999883
= +0.7967x +0.0095



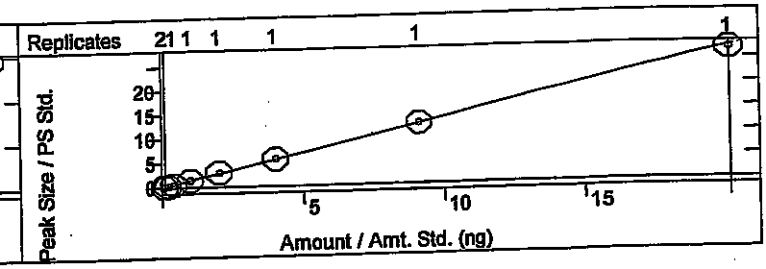
2-Butanone
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.91%, Coeff. Det.(r2): 0.999246
y = +0.0088x2 +0.5325x -0.0865



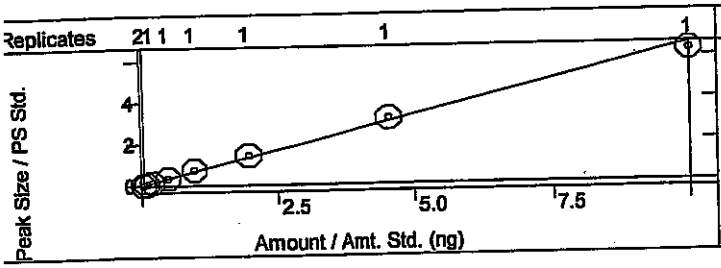
,1,1-Trichloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 8.830%, Coeff. Det.(r2): 0.999761
= +1.4855x -0.0066



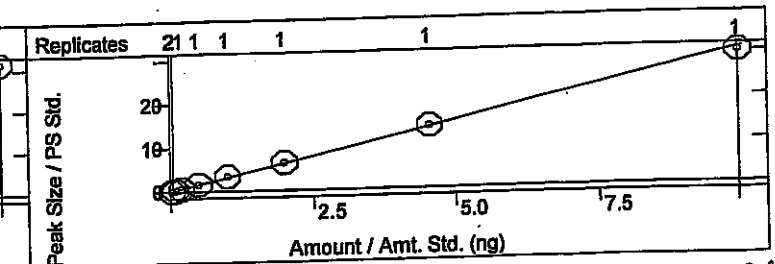
tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.018%, Coeff. Det.(r2): 0.999848
y = +1.3695x +0.0083



1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.594%, Coeff. Det.(r2): 0.997904
y = +0.6614x +0.0056



Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.677%, Coeff. Det.(r2): 0.999627
y = +3.0758x +0.0065

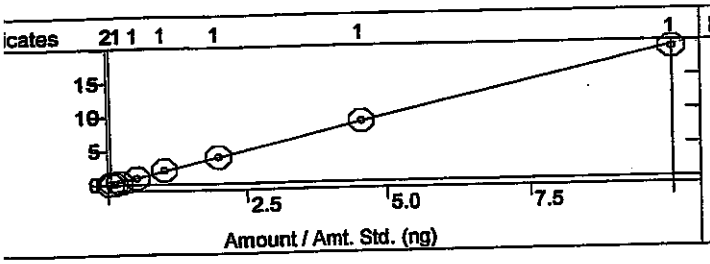


KSH 8/4/14

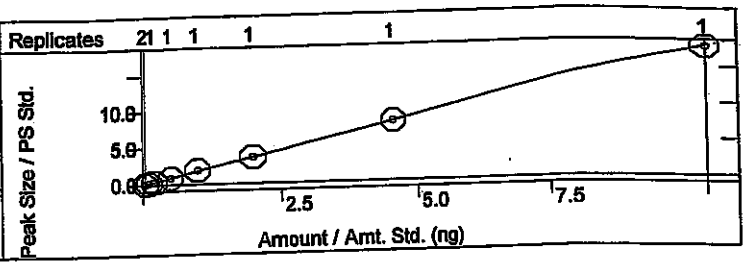
hod:	c:\varianws\methods\080114v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
alc Method:	...v 8260,624.mth	Cmpd. Table Updated:	8/4/2014 8:30 AM
ıple List:	N/A	Detector:	2000 Mass Spec
uence:	N/A	Workstation Version:	Version 6.9
Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
ık Measurement:	Area		

KSH 8/4/14

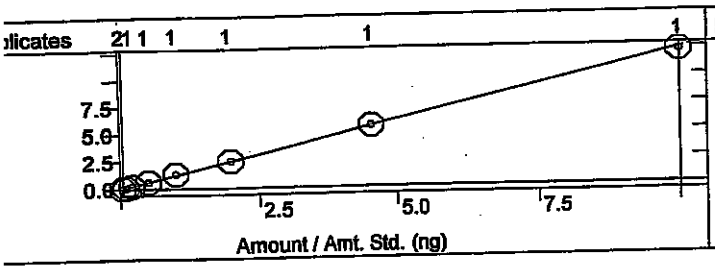
-1,2-DCE
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 11.80%, Coeff. Det.(r2): 0.999865
+1.9390x -0.0226



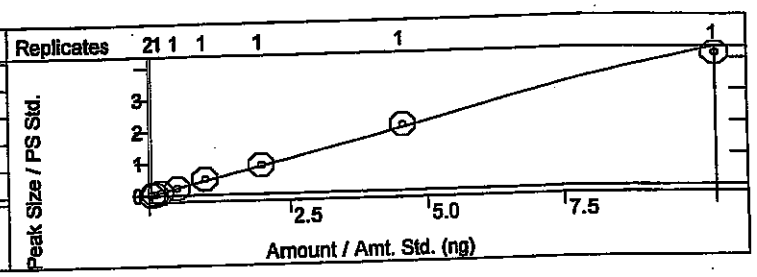
Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.857%, Coeff. Det.(r2): 0.999962
y = +1.8038x +0.0030



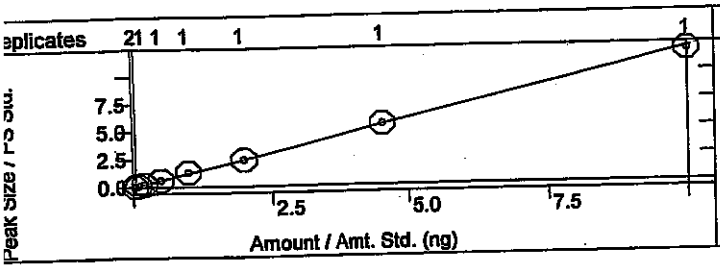
ıloroform
ırve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 10.07%, Coeff. Det.(r2): 0.999871
= +1.2389x -0.0082



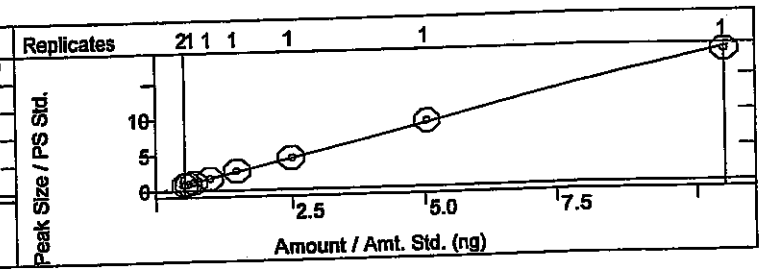
Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.73%, Coeff. Det.(r2): 0.997838
y = +0.4362x -4.6853e-4



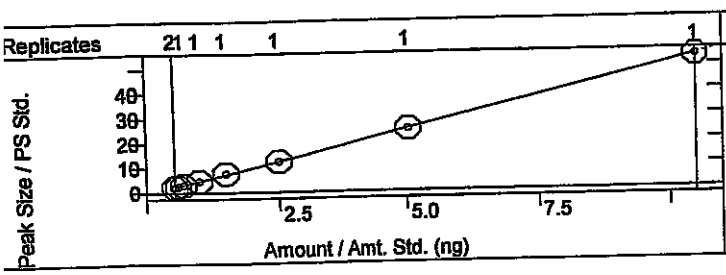
richloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.406%, Coeff. Det.(r2): 0.999811
= +1.2032x +0.0034



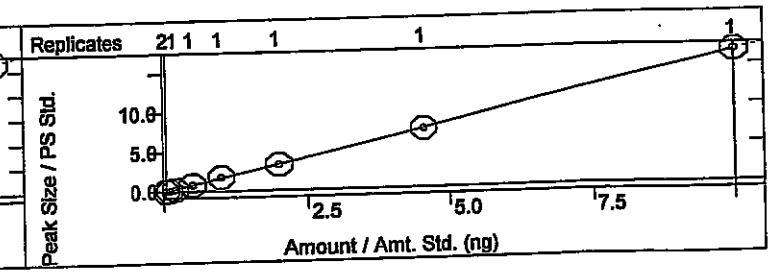
Dibromofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.655%, Coeff. Det.(r2): 0.999402
y = +1.7907x -0.0645



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.832%, Coeff. Det.(r2): 0.999912
y = +5.1573x -0.5686



1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.40%, Coeff. Det.(r2): 0.999919
y = +1.6695x -0.0455



iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
x Measurement:	Area	Calibration Type:	Internal Standard Analysis

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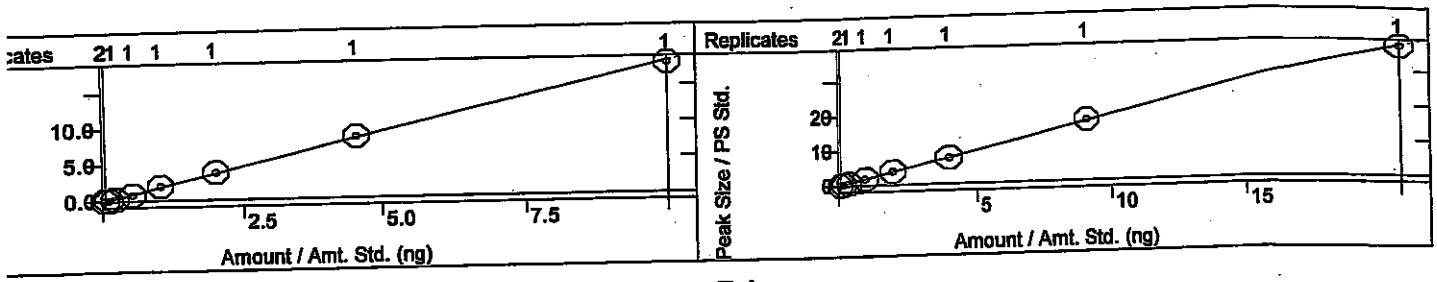
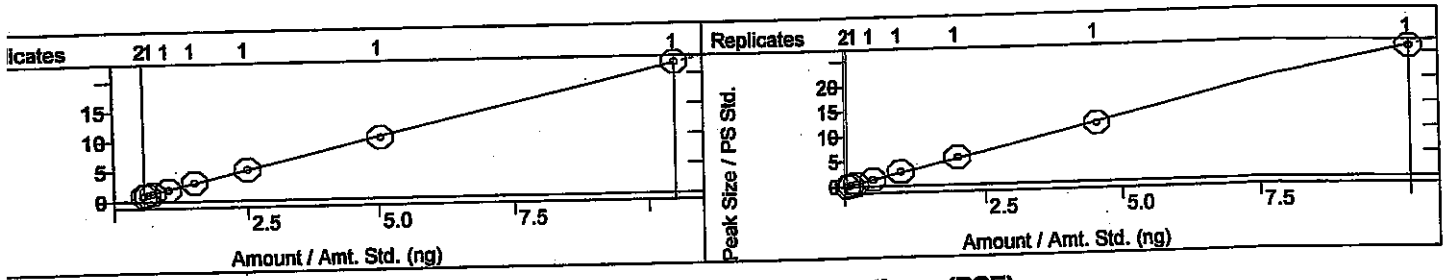
Dichloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 19.78%, Coeff. Det.(r2): 0.999629
+1.8502x -0.0424

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 18.71%, Coeff. Det.(r2): 0.999874
y = +1.8973x -0.0857



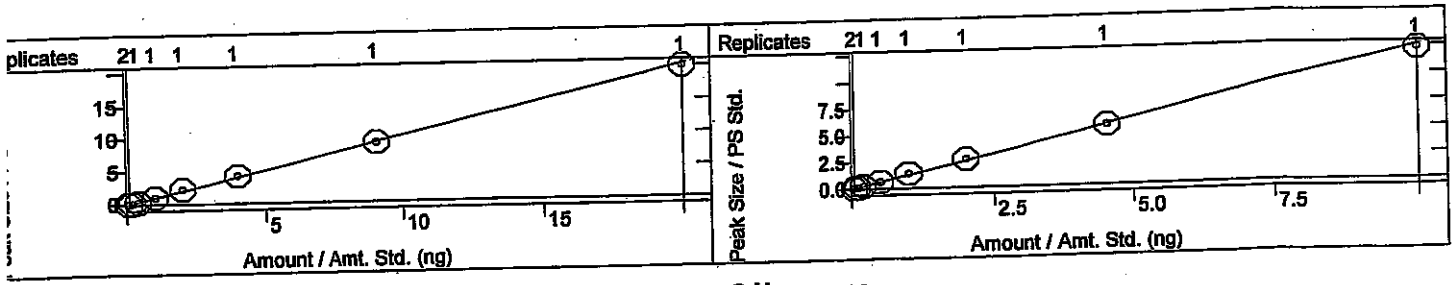
luene-d8
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 4.847%, Coeff. Det.(r2): 0.999785
+2.0846x -0.1194

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.143%, Coeff. Det.(r2): 0.999755
y = +2.6335x +0.0075



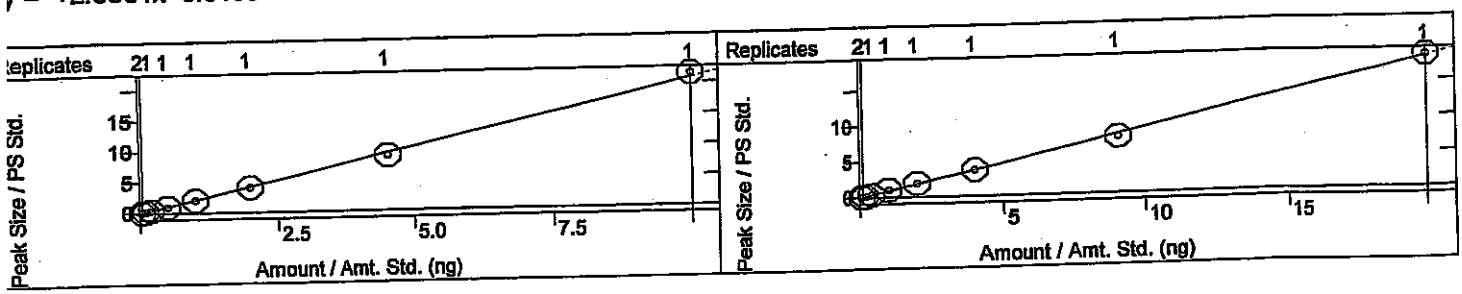
Chloroethyl vinyl ether
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 20.12%, Coeff. Det.(r2): 0.999649
= +1.0195x -0.0355

Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.013%, Coeff. Det.(r2): 0.999560
y = +1.2563x +0.0074



is-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.299%, Coeff. Det.(r2): 0.998749
y = +2.0801x -0.0106

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999277
y = +0.9157x -0.0199



nod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
nple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

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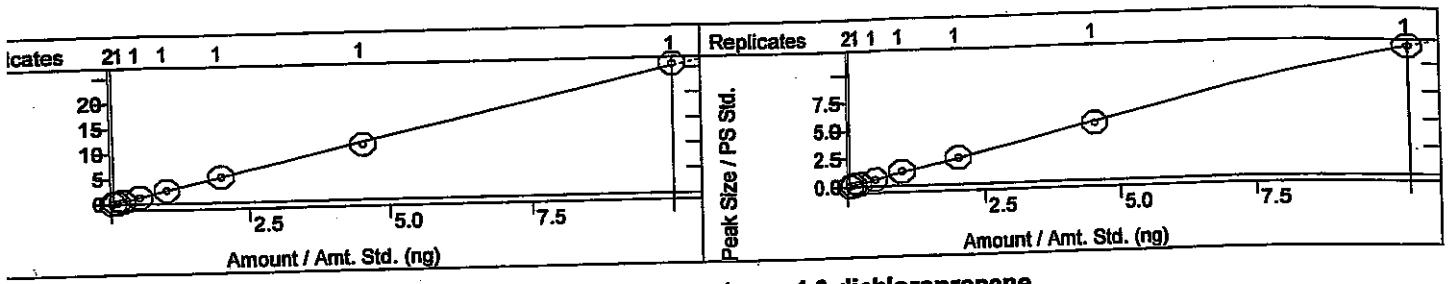
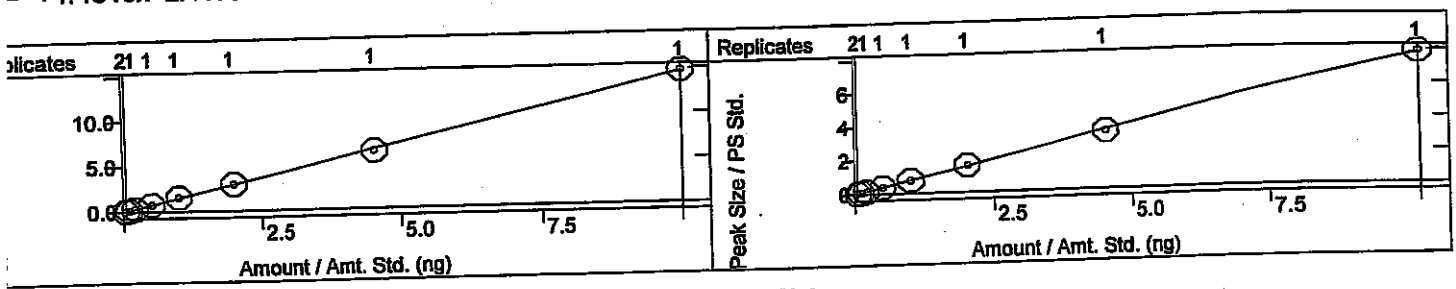
modichloromethane
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 12.50%, Coeff. Det.(r2): 0.999177
+2.5309x -0.0289

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.973%, Coeff. Det.(r2): 0.999720
y = +1.1586x +0.0035



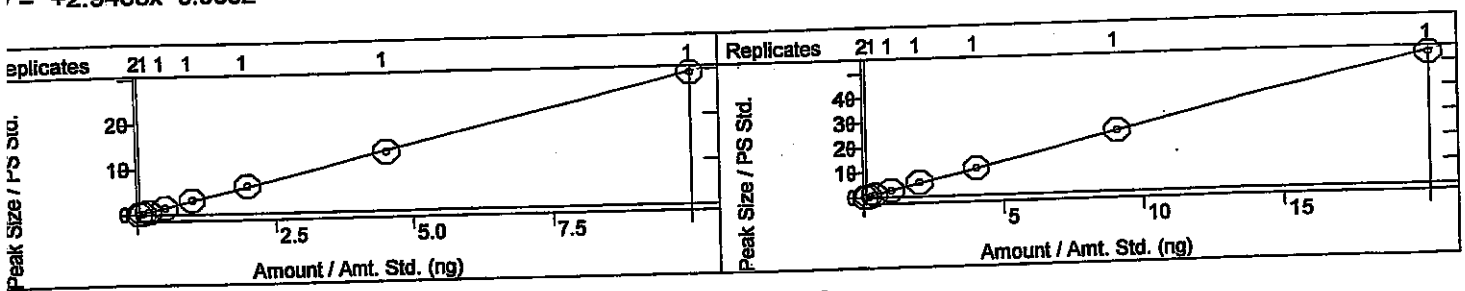
3-Dichloropropane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.416%, Coeff. Det.(r2): 0.999615
= +1.4613x -2.4179e-4

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.842%, Coeff. Det.(r2): 0.999667
y = +0.7839x -0.0044



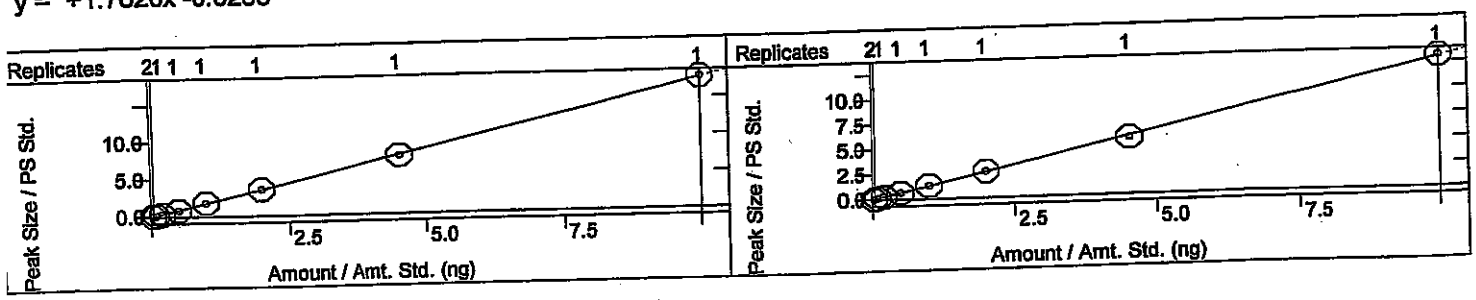
thylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.196%, Coeff. Det.(r2): 0.999817
= +2.9458x -0.0092

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.691%, Coeff. Det.(r2): 0.999889
y = +2.6971x -0.0108



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.26%, Coeff. Det.(r2): 0.999910
y = +1.7620x -0.0268

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.025%, Coeff. Det.(r2): 0.999578
y = +1.2997x -0.0051



thod:	c:\varianws\methods\080114v 8260,624.mth		
calc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
mple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
quence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
ak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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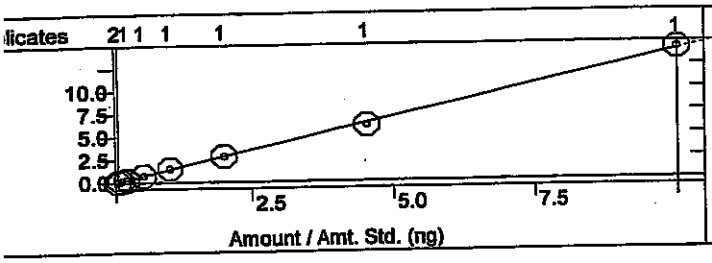
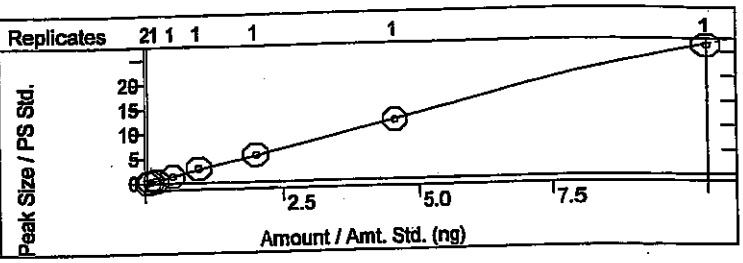
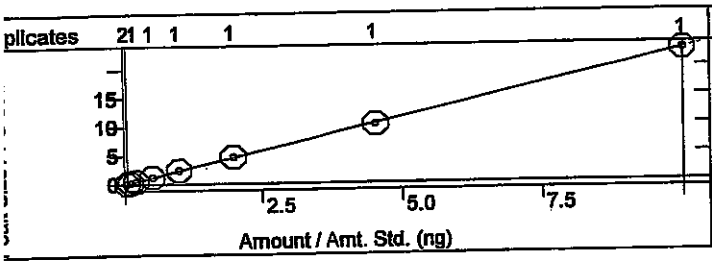
2-Dibromoethane (EDB)
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.643%, Coeff. Det.(r2): 0.999277
= +1.4074x +0.0063



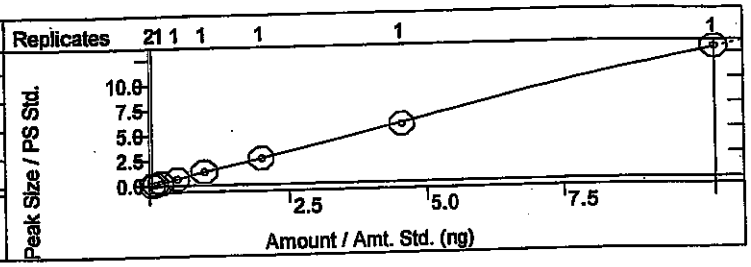
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.550%, Coeff. Det.(r2): 0.999847
y = +2.6642x -0.0027



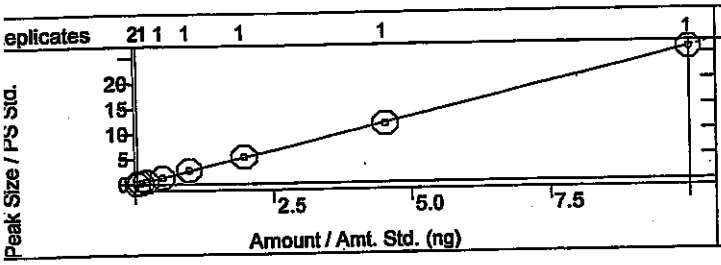
1,1,2-Tetrachloroethane
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 4.131%, Coeff. Det.(r2): 0.999886
= +2.2967x -0.0016



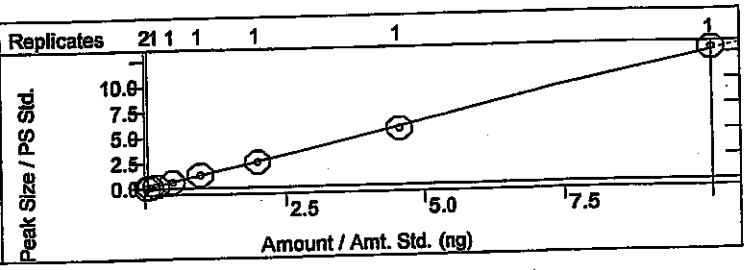
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.242%, Coeff. Det.(r2): 0.999819
y = +1.2975x +5.8370e-4



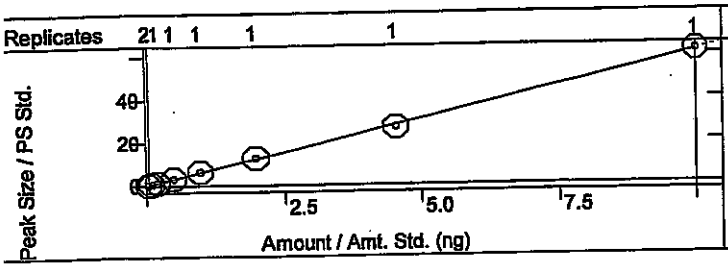
sopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.762%, Coeff. Det.(r2): 0.999899
/ = +2.6088x -0.0035



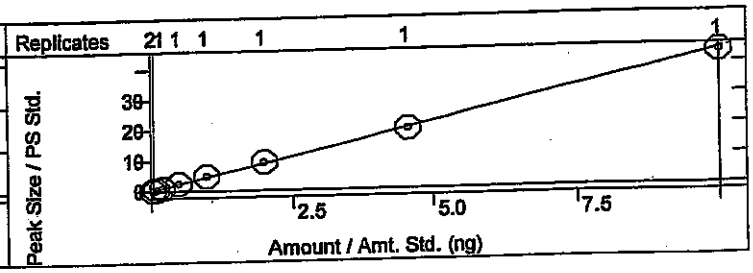
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.149%, Coeff. Det.(r2): 0.999428
y = +1.2737x -0.0114



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.780%, Coeff. Det.(r2): 0.999564
y = +6.1376x -0.0110



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.223%, Coeff. Det.(r2): 0.999806
y = +4.4092x +0.0332



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alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

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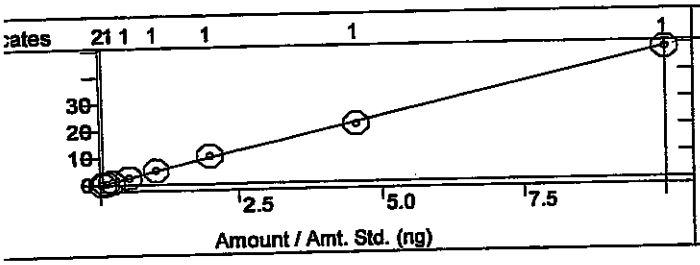
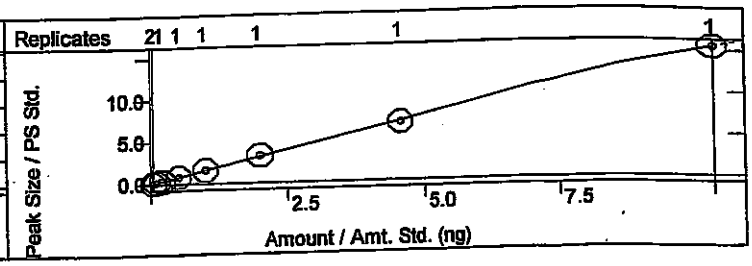
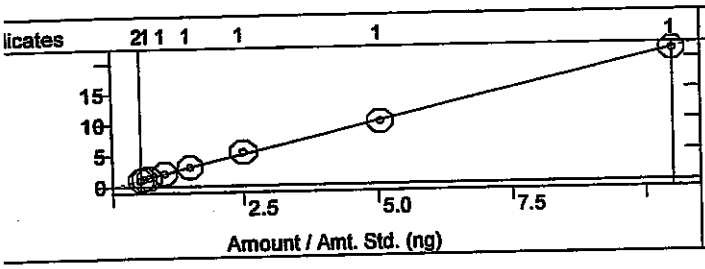
-Butylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
p. Fact. RSD: 5.185%, Coeff. Det.(r2): 0.999565
+4.8558x +0.0500



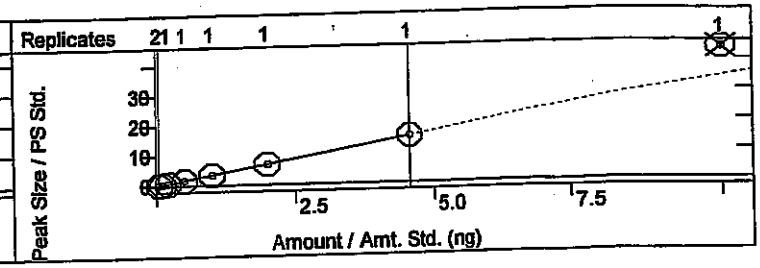
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.770%, Coeff. Det.(r2): 0.999806
y = +1.5587x +0.0056



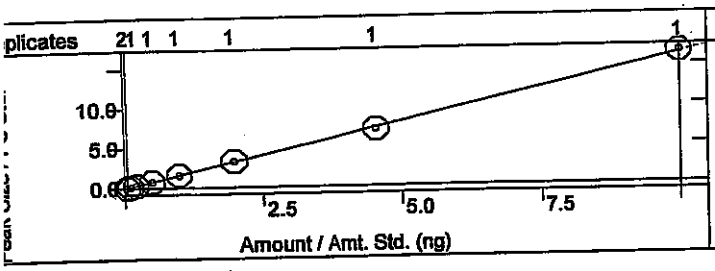
romofluorobenzene
rve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 3.416%, Coeff. Det.(r2): 0.999585
: +2.0454x -0.0066



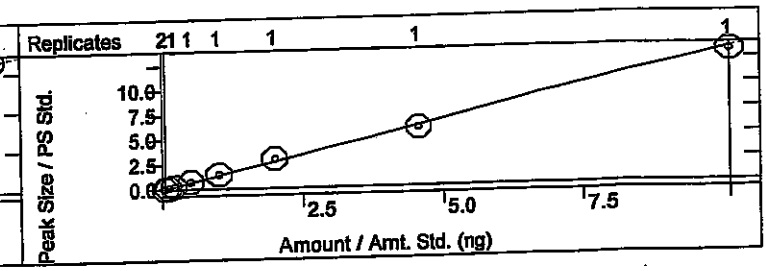
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.191%, Coeff. Det.(r2): 0.999978
y = +3.4240x -0.0224
CPD fit



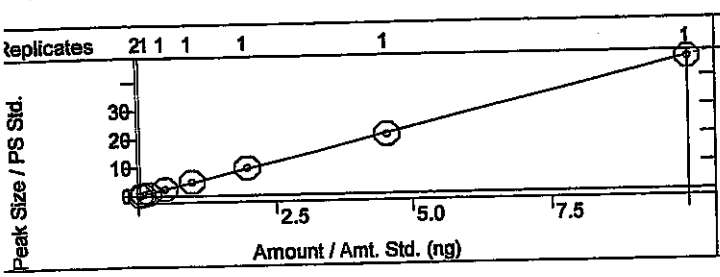
Chlorotoluene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 7.681%, Coeff. Det.(r2): 0.999640
= +1.6334x -0.0125



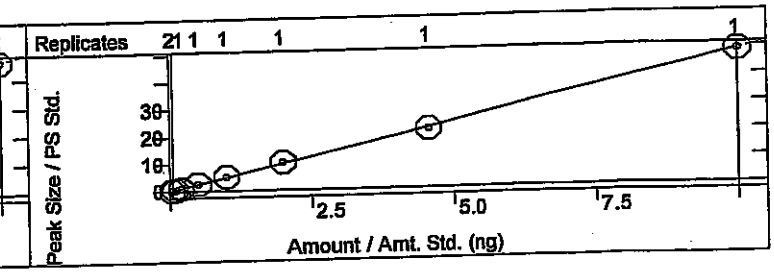
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.649%, Coeff. Det.(r2): 0.999259
y = +1.3481x +0.0085



1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.149%, Coeff. Det.(r2): 0.999837
y = +4.6757x +0.0107



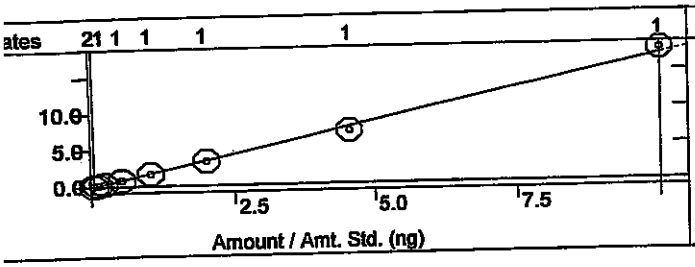
4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.756%, Coeff. Det.(r2): 0.999738
y = +4.8809x +0.0045



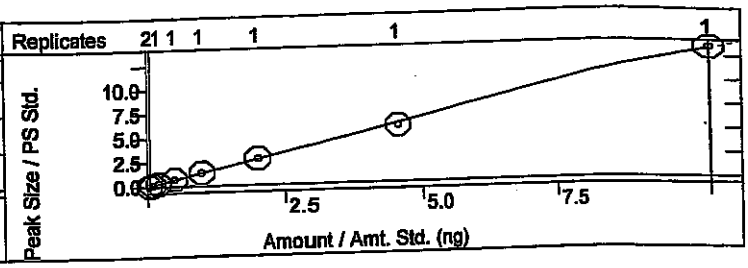
od:	c:\varianws\methods\080114v 8260,624.mth		
lc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
ple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
ence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/4/14

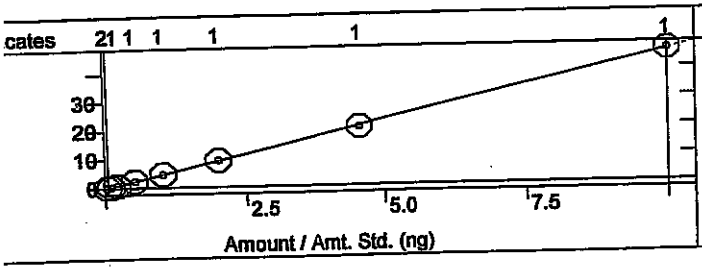
noform
e Fit: Linear, Origin: Ignore, Weight: 1/X
. Fact. RSD: 9.223%, Coeff. Det.(r2): 0.997537
+1.7279x -0.0156



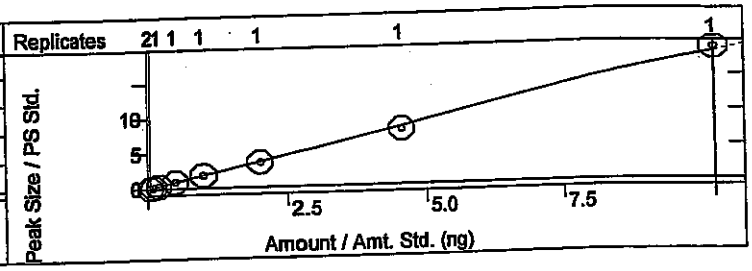
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.265%, Coeff. Det.(r2): 0.999469
y = +1.3403x +0.0079



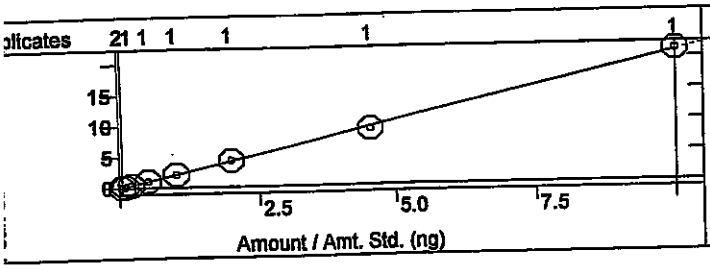
utylbenzene
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 13.49%, Coeff. Det.(r2): 0.999810
+4.6211x -0.0548



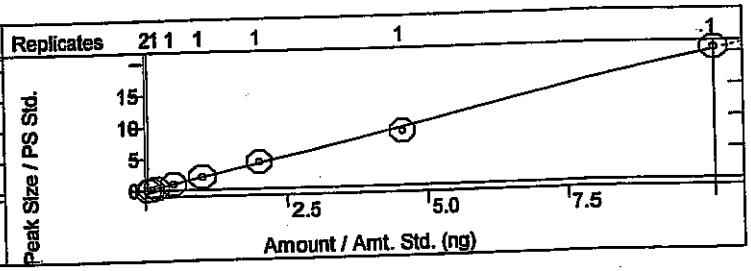
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.019%, Coeff. Det.(r2): 0.998790
y = +1.8391x -0.0160



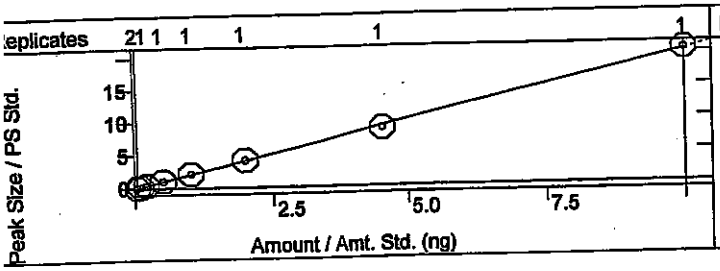
3-Dichlorobenzene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 6.793%, Coeff. Det.(r2): 0.999328
= +2.0976x -0.0059



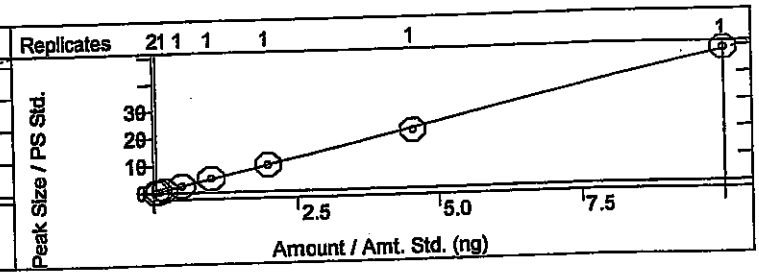
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.742%, Coeff. Det.(r2): 0.998610
y = +2.0328x -0.0108



,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.357%, Coeff. Det.(r2): 0.999403
/ = +2.0262x +0.0044



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.720%, Coeff. Det.(r2): 0.999537
y = +4.8568x +6.0255e-4

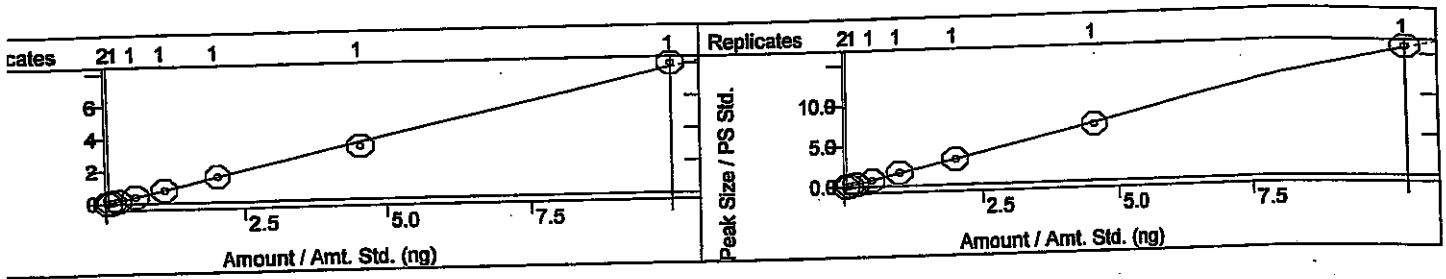


iod:	c:\varianws\methods\080114v 8260,624.mth		
alc Method:	...v 8260,624.mth	Last Calibration:	8/4/2014 8:25 AM
iple List:	N/A	Cmpd. Table Updated:	8/4/2014 8:30 AM
uence:	N/A	Detector:	2000 Mass Spec
Workstation (Upgrade)		Workstation Version:	Version 6.9
k Measurement:	Area	Calibration Type:	Internal Standard Analysis

KSH 8/14/14

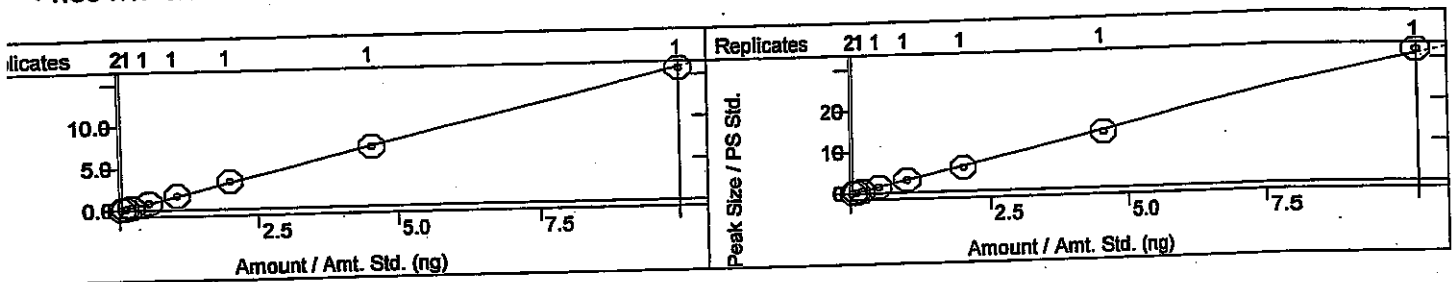
Dibromo-3-chloropropane
ve Fit: Linear, Origin: Ignore, Weight: 1/X
sp. Fact. RSD: 5.784%, Coeff. Det.(r2): 0.997968
+0.7777x +5.7904e-4

1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.72%, Coeff. Det.(r2): 0.999744
y = +1.5902x -0.0184



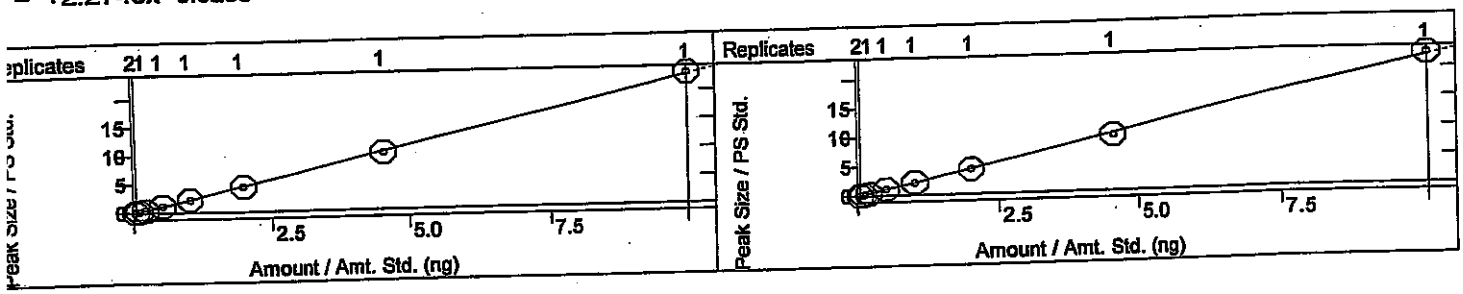
,3-Trichlorobenzene
irve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 9.190%, Coeff. Det.(r2): 0.999847
= +1.5947x -0.0060

Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.616%, Coeff. Det.(r2): 0.999042
y = +3.1076x -0.0442



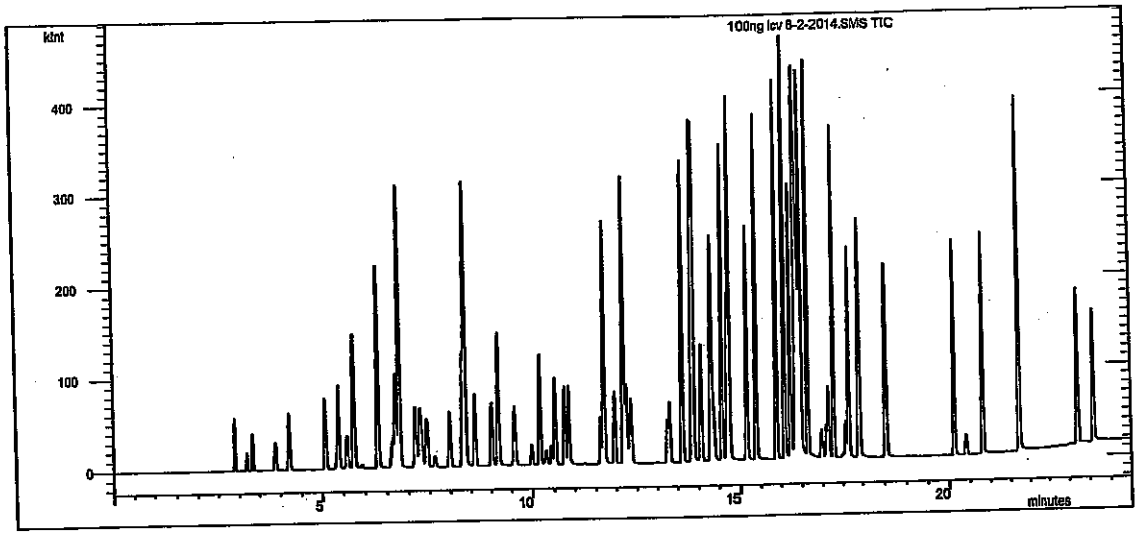
-Methylnaphthalene
urve Fit: Linear, Origin: Ignore, Weight: 1/X
esp. Fact. RSD: 12.67%, Coeff. Det.(r2): 0.999730
= +2.2743x -0.0288

1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.786%, Coeff. Det.(r2): 0.999311
y = +2.1970x -0.0208



8260B/624 Report

Sample Name:	100ng icv	**Operator Name:**	Rene Aguilera	**Instrument ID:**	Val
Inst. Method:	C:\VarianWS\Methods\080114V 8260,624.mth	**Inj. Notes:**	V-54-0446	**Acquisition Date:**	8/2/2014 12:15:51 AM
Calculation Date:	8/4/2014 8:46:43 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.986	634	Identified	42059	50.000
Benzene-d5-, chloro-	14.298	1192	Identified	59018	50.000
1,4-Dichlorobenzene-d4	17.903	1512	Identified	34060	50.000
Dichlorodifluoromethane	2.899	184	Identified	161242	140.438
Chloromethane	3.200	210	Identified	46242	119.082
Vinyl chloride	3.347	224	Identified	134691	118.340
Chloroethane	3.877	270	Identified	19712	104.575
Bromomethane	3.896	272	Identified	76309	108.358
Trichlorofluoromethane	4.217	301	Identified	73586	105.468
1,1-Dichloroethene	5.073	376	Identified	98624	97.837
Acetone	5.345	401	Identified	135143	331.440
Carbon disulfide	5.392	405	Identified	181746	230.194
Iodomethane	5.593	423	Identified	69331	169.615
Methyl tert-butyl ether (MTBE)	5.743	436	Identified	218869	207.487
Isopropyl ether	6.304	486	Identified	252589	223.886
tert-Butyl alcohol	6.628	514	Identified	455266	1995.834
trans-1,2-DCE	6.703	521	Identified	120796	103.438
tert-Butyl ethyl ether	6.791	528	Identified	500400	226.081
1,1-Dichloroethane	7.164	561	Identified	122798	101.205
Methylene Chloride	7.283	572	Identified	123200	99.905
Vinyl Acetate	7.340	577	Identified	287030	191.051
2,2-Dichloropropane	7.445	587	Identified	65802	97.589
2-Butanone	7.626	602	Identified	101305	218.511
1,1,1-Trichloroethane	8.302	662	Identified	130317	104.509

Compound Name	RT	Scan	Qual Result	Area	Amount
tert-Amyl methyl ether	8.359	667	Identified	240309	208.299
1,1-Dichloropropene	8.374	668	Identified	58613	104.931
Carbon Tetrachloride	8.603	689	Identified	265863	102.650
cis-1,2-DCE	9.020	726	Identified	166106	102.423
Benzene	9.182	740	Identified	155054	102.105
Chloroform	9.580	775	Identified	106658	102.675
Bromochloromethane	9.991	811	Identified	39763	108.427
Trichloroethene (TCE)	10.183	828	Identified	107185	105.758
Dibromofluoromethane	10.324	841	Identified	33123	23.790
1,2-Dichloroethane-d4	10.436	851	Identified	77327	23.337
1,2-Dichloroethane (EDC)	10.528	859	Identified	140082	101.116
1,2-Dichloropropane	10.757	880	Identified	164055	106.554
4-Methyl-2-pentanone	10.854	888	Identified	327654	207.557
Toluene-d8	11.624	956	Identified	55030	25.227
Toluene	11.705	963	Identified	329102	105.730
2-Chloroethyl vinyl ether	11.965	987	Identified	252305	211.409
Tetrachloroethene (PCE)	12.165	1004	Identified	158195	106.382
cis-1,3-dichloropropene	12.172	1005	Identified	231420	94.508
2-Hexanone	12.173	1005	Identified	255259	237.238
Bromodichloromethane	12.242	1011	Identified	298749	100.572
Dibromomethane	12.349	1020	Identified	143761	104.965
1,3-Dichloropropane	13.246	1099	Identified	173132	100.379
trans-1,3-dichloropropene	13.309	1105	Identified	88596	96.028
Ethylbenzene	13.606	1131	Identified	363532	104.706
mp-Xylenes	13.856	1153	Identified	677205	212.917
1,1,2-Trichloroethane	14.059	1171	Identified	203249	98.485
Chlorobenzene	14.320	1194	Identified	155830	101.776
1,2-Dibromoethane (EDB)	14.380	1199	Identified	171714	103.141
o-Xylene	14.571	1216	Identified	334513	106.425
1,1,1,2-Tetrachloroethane	14.701	1228	Identified	282205	104.136
Dibromochloromethane	14.731	1230	Identified	168543	110.026
Isopropylbenzene	14.763	1233	Identified	323816	105.224
Styrene	15.155	1268	Identified	151267	101.063
n-Propylbenzene	15.398	1290	Identified	408304	97.749
1,3,5-Trimethylbenzene	15.889	1334	Identified	309052	102.519
tert-Butylbenzene	16.085	1351	Identified	344105	103.514
2-Chlorotoluene	16.232	1364	Identified	104888	98.609
4-Bromofluorobenzene	16.329	1373	Identified	31417	22.709
sec-Butylbenzene	16.361	1375	Identified	213145	91.711
4-Chlorotoluene	16.396	1378	Identified	106599	96.184
Bromobenzene	16.437	1382	Identified	96639	104.918
1,2,4-Trimethylbenzene	16.488	1386	Identified	318870	99.998
4-Isopropyltoluene	16.649	1401	Identified	338513	101.767
Bromoform	16.979	1430	Identified	107379	91.678
1,2,3-Trichloropropane	17.152	1446	Identified	87228	95.241
n-Butylbenzene	17.277	1457	Identified	314471	100.493
1,1,2,2-Tetrachloroethane	17.573	1483	Identified	121882	97.724
1,3-Dichlorobenzene	17.656	1490	Identified	143914	100.855
1,4-Dichlorobenzene	17.927	1514	Identified	136202	98.624
1,2-Dichlorobenzene	18.534	1568	Identified	138871	100.504

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	20.119	1709	Identified	315343	95.307
1,2-Dibromo-3-chloropropane	20.409	1735	Identified	51383	96.950
1,2,4-Trichlorobenzene	20.818	1771	Identified	107514	99.830
1,2,3-Trichlorobenzene	21.721	1852	Identified	110132	101.569
Naphthalene	21.727	1853	Identified	198112	94.298
2-Methylnaphthalene	23.214	1989	Identified	144064	93.623
1-Methylnaphthalene	23.600	2024	Identified	130978	87.991

****
Revision Log
****

8/2/2014 12:40 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'
8/4/2014 8:46 AM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\080114V 8260,624.mth'

lan Star Workstation - Generic SampleList Sun Jul 06 18:33:02 2014

pleList: C:\VarianWS\070614v.smp

ated: Sun Jul 06 15:00:06 2014
ified: Sun Jul 06 18:32:58 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-52-0465	
2	b2	none
3	b3	none tune@4:10
4	25ng annex crv	below
	Notes V-11-8034	
5	50ng annex crv	below
	Notes V-11-8034	
6	100ng annex crv	below
	Notes V-11-8034	
7	150ng annex crv	below
	Notes V-11-8034	
8	227.27ng annex crv	below
	Notes V-11-8034	
9	500ng annex crv	below
	Notes V-11-8034	
10	750ng annex crv	below
	Notes V-11-8034	
11	b4	none
12	b5	none
13	227.27ng annex icv	below
	Notes V-11-8035	@ 8:52
14	b6	none
15	b7	none tune@9:40
16	0.25ug gro crv	below
	Notes V-18-2047	
17	0.5ug gro crv	below
	Notes V-18-2047	
18	1ug gro crv	below
	Notes V-18-2047	
19	2.5ug gro crv	below
	Notes V-18-2047	
20	5ug gro crv	below
	Notes V-18-2047	
21	10ug gro crv	below
	Notes V-18-2047	
22	b8	none
23	20ug gro crv	below
	Notes V-18-2047	
24	b9	none
25	40ug gro crv	below
	Notes V-18-2047	
26	b10	none
27	b11	none
28	2.5ug gro icv	below
	Notes V-18-2036	
29	b12	none
30	crtm	below
	Notes V-18-1994	
31	crtm full	below @5:15
	Notes V-18-1781	
32	b13	none
33		

Loaded By: AT 7-6-14
1st Review By: AT 7-7-14
QA'd By: NB 7/8/14

irectory for Data Files: C:\VarianWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\varianws\070614v.rcl.

8015D MOD, 8260 annex
Calibration Summary

Instrument: Val

8015D MOD GRO

Calibration Name: 070614v GRO Date: 7-614

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
GRO	☐	☐	☐	☐	

8260 annex

Calibration Name: 070614v 8260 annex Date: 7-6-14

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Acrolein	☐	☐	☐	☐	Cov Plot Not used to quantify data
Acrylonitrile	☒	☐	☒	☐	VQL: 227.27ng
Isobutyl alcohol	☒	☐	☐	☒	
1,4-Dioxane	☒	☐	☐	☒	
trans-1,4-Dichloro-2-butene	☒	☐	☒	☐	VQL: 500ng

Analyst: [signature] 7-7-14

QA: [signature] NB 7/8/14

Additional Comments:

This Document Has Been Approved For Use at HEAL on 03/07/2014 by: [signature] and [signature].

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): '14v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS Lab Sample ID: 2.5ug gro crv

Instrument ID: VAL Date Analyzed: 7/6/2014 Time Analyzed: 23:40

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
12 HOUR STD	99543	14.31	104153	16.34								
UPPER LIMIT	199086	14.81	208306	16.84								
LOWER LIMIT	49772	13.81	52077	15.84								
EPA SAMPLE NO												
b7 7-6-201	91490	14.31	94582	16.34								
0.25ug gro	96032	14.30	98390	16.33								
0.5ug gro	92596	14.31	98171	16.34								
1ug gro cr	95673	14.31	98674	16.34								
5ug gro cr	101206	14.31	104692	16.34								
10ug gro c	108615	14.30	114910	16.34								
b8 7-7-201	96102	14.30	97413	16.33								
20ug gro c	111043	14.30	115518	16.33								
b9 7-7-201	98300	14.30	101944	16.34								
40ug gro c	105475	14.30	108833	16.33								
b10 7-7-20	98832	14.31	101409	16.34								
b11 7-7-20	91499	14.31	93274	16.34								
2.5ug gro	99390	14.31	99396	16.34								
b12 7-7-20	95027	14.30	93378	16.33								
crtm 7-7-2	95919	14.30	94634	16.34								
crtm full	95091	14.30	93850	16.33								

RT 7-7-14

JDB JDB 7/8/14

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2									
b13 7-7-20	93813	14.31	93420	16.34								

Surrogate

☐

☑

IS1 = Benzene-d5-, chloro-

IS2 = BFB

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT =+0.50 minutes of internal standard RT

RT LOWER LIMIT =-0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside QC limits.

D Indicates the peak is not "Identified".

Internal Standard And RT Summary

7/7/2014 9:37

Analyst: RAA

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 7-1-2014.sms Injection Date: 7/1/2014

Instrument ID: VAL Injection Time: 19:11

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z
50	15-40% of m/z 95	19.9	
75	30-60% of m/z 95	36.4	
95	base peak	100.0	
96	5-9% of m/z 95	6.0	
173	<2% of m/z 174	0.1 (0.1)	174
174	>50% of m/z 95	62.5	
175	5-9% of m/z 174	4.0 (6.5)	174
176	>95% but <101% of m/z 174	62.9 (100.7)	174
177	5-9% of m/z 176	3.5 (5.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
2 b7 7-6-201	b7	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b7 7-6-2014.SMS	7/6/2014 21:48
30.25ug gro	0.25ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.25ug gro crv 7-6-2014.SMS	7/6/2014 22:16
40.5ug gro	0.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\0.5ug gro crv 7-6-2014.SMS	7/6/2014 22:44
51ug gro cr	1ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\1ug gro crv 7-6-2014.SMS	7/6/2014 23:12
62.5ug gro	2.5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro crv 7-6-2014.SMS	7/6/2014 23:40
75ug gro cr	5ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\5ug gro crv 7-7-2014.SMS	7/7/2014 0:08
810ug gro c	10ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\10ug gro crv 7-7-2014.SMS	7/7/2014 0:36
9b8 7-7-201	b8	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b8 7-7-2014.SMS	7/7/2014 1:04
1020ug gro c	20ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\20ug gro crv 7-7-2014.SMS	7/7/2014 1:31
11 b9 7-7-201	b9	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b9 7-7-2014.SMS	7/7/2014 1:59
12 40ug gro c	40ug gro crv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\40ug gro crv 7-7-2014.SMS	7/7/2014 2:27
13 b10 7-7-20	b10	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b10 7-7-2014.SMS	7/7/2014 2:55

Analyst: RAA

RA 7-7-14

7/8/14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
14 b11 7-7-20	b11	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b11 7-7-2014.SMS	7/7/2014 3:23
15 2.5ug gro	2.5ug gro icv	h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro icv 7-7-2014.SMS	7/7/2014 3:51
16 b12 7-7-20	b12	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b12 7-7-2014.SMS	7/7/2014 4:19
17 crtm 7-7-2	crtm	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm 7-7-2014.SMS	7/7/2014 4:47
18 crtm full	crtm full	h:\val\data\2014v\0714v\070614v gro annex crv\gro\crtm full 7-7-2014.SMS	7/7/2014 5:15
19 b13 7-7-20	b13	h:\val\data\2014v\0714v\070614v gro annex crv\gro\b13 7-7-2014.SMS	7/7/2014 5:43

RAA 7-7-14

NB 7/8/14

Analyst: RAA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8015D MOD GRO

Lab Name: Hall Environmental Lab | Contract:

Lab Code: | Case No.: | SAS No: | SDG No:

Instrument ID: VAL | Cal. Sample Date(s): 7/7/2014 | 7/7/2014

Heated Purge (Y/N): No | Cal. Sample Time(s): 2:27 | 2:27

GC Column: DB-VRX | ID: 250 (mm)

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 7/7/2014 2:27	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
GRO	6030.903	4340.398	3433.122	2904.378	2559.788	2407.683	2320.820	2273.889	0.9999	3283.873	40.0	PASS	PASS
BFB	1.025	1.060	1.031	1.046	1.034	1.058	1.040	1.032	0.9988	1.041	1.2	PASS	PASS
									Average %RSD		20.6		

AA 7-7-14

SB 7/8/14

7/7/2014 9:37

Analyst: RAA

2.5ug gro crv 7-6-2014.SMS

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\val\data\2014v\0714v\070614v gro annex crv\gro\2.5ug gro i **Acquisition Date:** 7/7/2014 3:51

Comment: V-18-2036

SampleID: 2.5ug gro icv **Analyst:** Rene Aguilera

Calibration File: H:\Val\Data\2014v\0714v\070614v gro annex crv\GRO\2.5ug gro crv 7-6-2014.SMS

Cal. Sample Dates: First: 7/7/2014 2:27 **Last:** 7/7/2014 2:27

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
1)	* Benzene-d5-, chloro-	50.00	ng	50.00	100 %	70 - 130	PASS
2)	GRO	2.68	ug	2.50	107 %	80 - 120	PASS
3)	BFB	48.04	ng	50.00	96 %	70 - 130	PASS

* indicates Internal Standard.

7-7-14

✓ NB 7/8/14

Analyst: RAA

alibration Curves Report

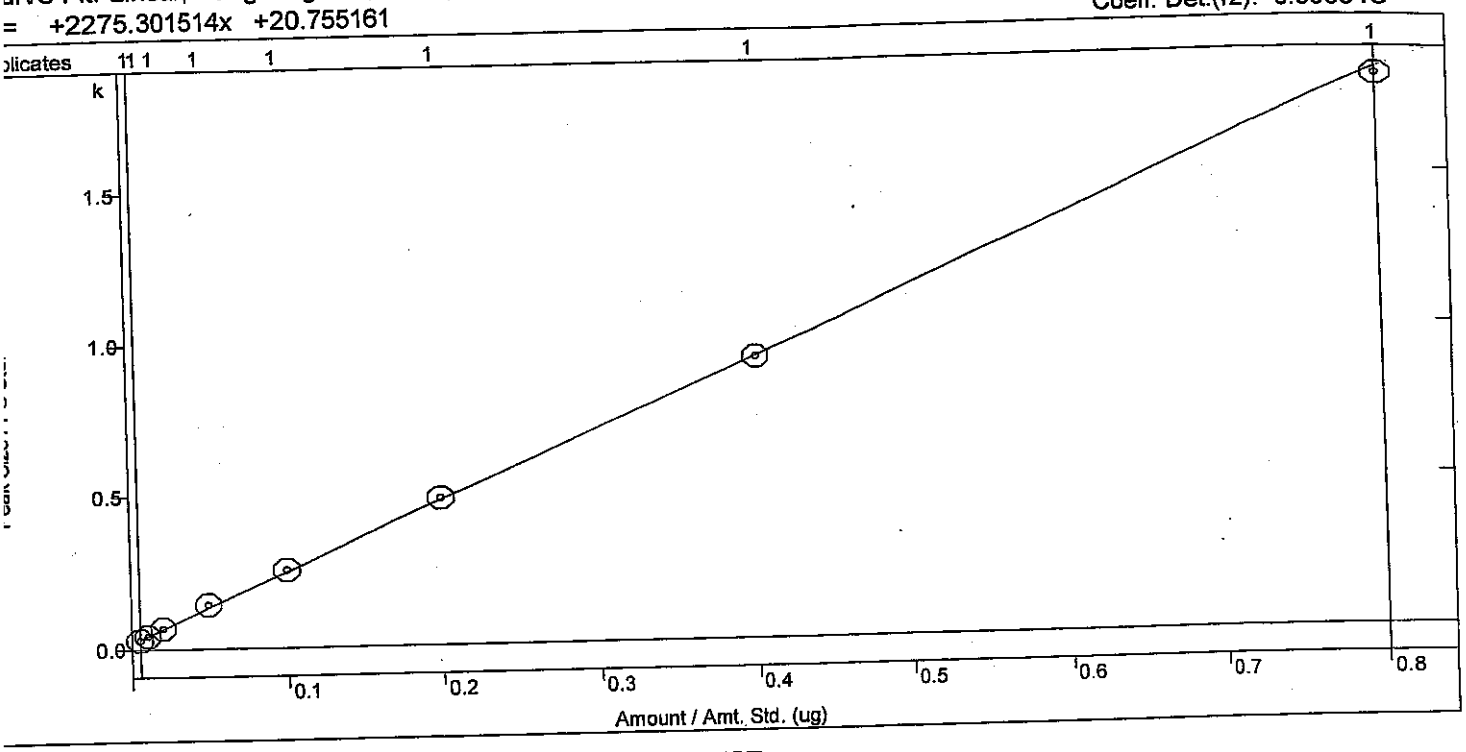
7-7-14

thod:	c:\varianws\methods\070614v gro.mth		
calc Method:	...70614v gro.mth	Last Calibration:	7/7/2014 7:58 AM
mple List:	N/A	Cmpd. Table Updated:	7/7/2014 7:58 AM
quence:	N/A	Detector:	2000 Mass Spec
S Workstation (Upgrade)		Workstation Version:	Version 6.9
eak Measurement:	Area	Calibration Type:	Internal Standard Analysis

GRO

urve Fit: Linear, Origin: Ignore, Weight: 1/X
= +2275.301514x +20.755161

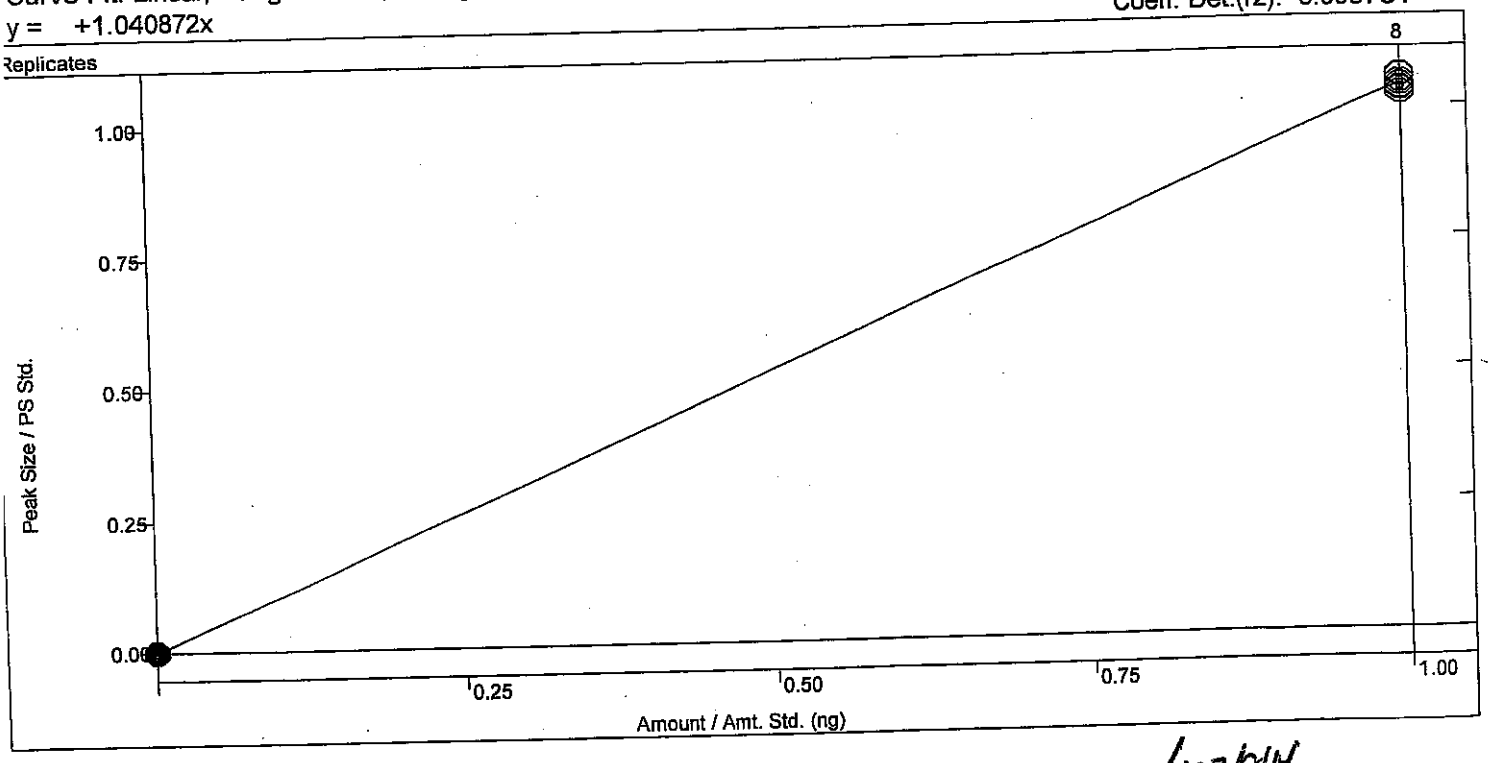
Resp. Fact. RSD: 39.98%
Coeff. Det.(r2): 0.999918



BFB

Curve Fit: Linear, Origin: Force, Weight: 1/X
y = +1.040872x

Resp. Fact. RSD: 1.245%
Coeff. Det.(r2): 0.998781



JNB 7/8/14

****

neric SampleList Printout - Wed Aug 20 13:45:34 2014

mpleList: C:\AgilentWS\082014m.smp

eated: Wed Aug 20 08:51:48 2014
dified: Wed Aug 20 13:44:57 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0049	
2	b2	none
3	b3	none
4	mb-14860	none 8/20 @ 11:03
5	10ppb 5035 crv	below @ 11:31
	Notes V-54-0464	
6	lcs-14860	below
	Notes V-11-8066	
7	b4	none
8	1408893-001a	below
	Notes x1 low level soil pb14860	
9	1408893-001ams	below
	Notes x1 low level soil pb14860 V-11-8066	
10	1408893-001amsd	below
	Notes x1 low level soil pb14860 V-11-8066	
11	1408893-002a	below
	Notes x1 low level soil pb14860	
12	1408893-003a	below
	Notes x1 low level soil pb14860	
13	1408994-001a	below
	Notes x1 low level soil pb14860 @ 3:21	
14	b5	none
15	b6	none
16		

Loaded By: 8.20.14
1st Review By: 8.21.14
QA'd By: JNB 8/21/14

rectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\082014m.rcl.

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: Mercury Continuing Cal. Sample Date: 8/20/2014 Time: 11:31

Heated Purge (Y/N): No Initial Cal. Sample Date: 8/19/2014 8/19/2014

GC Column: DB-VRX ID: 250 (mm) Initial Cal. Sample Time: 20:38 20:38

Initial Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.S

Lab File ID: c:\agilentws\data\10ppb 5035 crv 8-20-2014.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Dichlorodifluoromethane	1.532	0.100	10.00	10.36	-3.6	30.0	PASS	PASS
Chloromethane	9.387	0.100	10.00	9.94	0.6	30.0	PASS	PASS
Vinyl chloride	11.037	0.100	10.00	10.72	-7.2	20.0	PASS	PASS
Chloroethane	2.333	0.100	10.00	11.32	-13.2	30.0	PASS	PASS
Bromomethane	2.164	0.100	10.00	9.89	1.1	30.0	PASS	PASS
Trichlorofluoromethane	2.627	0.100	10.00	9.34	6.6	30.0	PASS	PASS
1,1-Dichloroethene	6.991	0.100	10.00	10.15	-1.5	20.0	PASS	PASS
Acetone	2.578	0.100	20.00	15.80	21.0	40.0	PASS	PASS
Carbon disulfide	5.874	0.100	20.00	22.04	-10.2	40.0	PASS	PASS
Iodomethane	4.362	0.100	20.00	17.98	10.1	40.0	PASS	PASS
Methyl tert-butyl ether (MTBE)	7.202	0.100	20.00	18.92	5.4	30.0	PASS	PASS
Isopropyl ether	35.336	0.100	20.00	22.27	-11.3	40.0	PASS	PASS
tert-Butyl alcohol	0.126	0.100	200.00	47.01	76.5	40.0	FAIL	PASS
trans-1,2-DCE	14.298	0.100	10.00	10.61	-6.1	30.0	PASS	PASS
tert-Butyl ethyl ether	116.305	0.100	20.00	19.90	0.5	40.0	PASS	PASS
Methylene Chloride	9.077	0.100	10.00	9.30	7.0	30.0	PASS	PASS
1,1-Dichloroethane	5.257	0.100	10.00	9.49	5.1	30.0	PASS	PASS
Vinyl acetate	16.800	0.100	20.00	22.73	-13.6	40.0	PASS	PASS
2,2-Dichloropropane	1.997	0.100	10.00	10.86	-8.6	30.0	PASS	PASS
2-Butanone	6.806	0.100	20.00	22.25	-11.2	40.0	PASS	PASS
1,1,1-Trichloroethane	4.865	0.100	10.00	9.77	2.3	30.0	PASS	PASS
1,1-Dichloropropene	6.844	0.100	10.00	10.31	-3.1	30.0	PASS	PASS
tert-Amyl methyl ether	32.962	0.100	20.00	23.47	-17.3	40.0	PASS	PASS
Carbon Tetrachloride	2.220	0.100	10.00	9.93	0.7	30.0	PASS	PASS
cis-1,2-DCE	2.680	0.100	10.00	9.94	0.6	30.0	PASS	PASS
Benzene	9.950	0.100	10.00	10.03	-0.3	30.0	PASS	PASS
Chloroform	5.030	0.100	10.00	9.52	4.8	20.0	PASS	PASS
Bromochloromethane	3.733	0.100	10.00	11.24	-12.4	30.0	PASS	PASS
Trichloroethene (TCE)	14.787	0.100	10.00	9.71	2.9	30.0	PASS	PASS
Dibromofluoromethane	2.969	0.100	20.00	20.42	-2.1	30.0	PASS	PASS
1,2-Dichloroethane-d4	11.838	0.100	20.00	19.80	1.0	30.0	PASS	PASS
1,2-Dichloroethane (EDC)	67.708	0.100	10.00	10.47	-4.7	30.0	PASS	PASS
1,2-Dichloropropane	20.915	0.100	10.00	10.31	-3.1	20.0	PASS	PASS
4-Methyl-2-pentanone	4.532	0.100	20.00	20.66	-3.3	40.0	PASS	PASS
Toluene-d8	1.855	0.100	20.00	19.65	1.7	30.0	PASS	PASS

8/20/2014 12:02 Page 1 of 2 0ppb 5035 crv 8-20-2014.sms

Analyst: cadg

8-21-14

JB 8/21/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
Toluene	10.399	0.100	10.00	10.01	-0.1	20.0	PASS	PASS
2-Chloroethyl vinyl ether	6.242	0.100	20.00	25.13	-25.7	40.0	PASS	PASS
cis-1,3-dichloropropene	16.235	0.100	10.00	9.42	5.8	30.0	PASS	PASS
Bromodichloromethane	3.033	0.100	10.00	9.54	4.6	30.0	PASS	PASS
2-Hexanone	12.155	0.100	20.00	19.57	2.1	40.0	PASS	PASS
Tetrachloroethene (PCE)	2.854	0.100	10.00	10.20	-2.0	30.0	PASS	PASS
Dibromomethane	5.405	0.100	10.00	12.45	-24.5	30.0	PASS	PASS
1,3-Dichloropropane	5.831	0.100	10.00	9.85	1.5	30.0	PASS	PASS
trans-1,3-dichloropropene	3.010	0.100	10.00	10.09	-0.9	30.0	PASS	PASS
Ethylbenzene	12.077	0.100	10.00	10.22	-2.2	20.0	PASS	PASS
mp-Xylenes	10.714	0.100	20.00	20.55	-2.7	30.0	PASS	PASS
1,1,2-Trichloroethane	6.610	0.100	10.00	11.16	-11.6	30.0	PASS	PASS
Chlorobenzene	5.571	0.300	10.00	10.33	-3.3	30.0	PASS	PASS
1,2-Dibromoethane (EDB)	1.714	0.100	10.00	10.06	-0.6	30.0	PASS	PASS
o-Xylene	11.224	0.100	10.00	10.08	-0.8	30.0	PASS	PASS
Dibromochloromethane	1.521	0.100	10.00	10.57	-5.7	30.0	PASS	PASS
1,1,1,2-Tetrachloroethane	2.512	0.100	10.00	10.38	-3.8	30.0	PASS	PASS
Isopropylbenzene	10.676	0.100	10.00	10.36	-3.6	30.0	PASS	PASS
Styrene	5.349	0.100	10.00	9.69	3.1	30.0	PASS	PASS
n-Propylbenzene	33.730	0.100	10.00	9.69	3.1	30.0	PASS	PASS
1,3,5-Trimethylbenzene	24.661	0.100	10.00	9.69	3.1	30.0	PASS	PASS
tert-Butylbenzene	28.204	0.100	10.00	9.73	2.7	30.0	PASS	PASS
2-Chlorotoluene	8.702	0.100	10.00	9.96	0.4	30.0	PASS	PASS
4-Bromofluorobenzene	2.386	0.100	20.00	19.40	3.0	30.0	PASS	PASS
Bromobenzene	41.074	0.100	10.00	11.19	-11.9	30.0	PASS	PASS
4-Chlorotoluene	61.254	0.100	10.00	11.77	-17.7	30.0	PASS	PASS
sec-Butylbenzene	33.875	0.100	10.00	9.04	9.6	30.0	PASS	PASS
1,2,4-Trimethylbenzene	79.713	0.100	10.00	9.64	3.6	30.0	PASS	PASS
4-Isopropyltoluene	27.122	0.100	10.00	10.02	-0.2	30.0	PASS	PASS
Bromoform	8.872	0.100	10.00	9.47	5.3	30.0	PASS	PASS
1,2,3-Trichloropropane	10.122	0.100	10.00	9.12	8.8	30.0	PASS	PASS
n-Butylbenzene	45.486	0.100	10.00	9.96	0.4	30.0	PASS	PASS
1,1,2,2-Tetrachloroethane	35.558	0.300	10.00	9.36	6.4	30.0	PASS	PASS
1,3-Dichlorobenzene	11.382	0.100	10.00	10.00	0.0	30.0	PASS	PASS
1,4-Dichlorobenzene	10.588	0.100	10.00	9.70	3.0	30.0	PASS	PASS
1,2-Dichlorobenzene	10.674	0.100	10.00	9.27	7.3	30.0	PASS	PASS
Hexachlorobutadiene	25.862	0.100	10.00	9.80	2.0	30.0	PASS	PASS
1,2-Dibromo-3-chloropropane	7.580	0.100	10.00	9.14	8.6	30.0	PASS	PASS
1,2,4-Trichlorobenzene	30.267	0.100	10.00	9.50	5.0	30.0	PASS	PASS
Naphthalene	8.478	0.100	10.00	7.87	21.3	30.0	PASS	PASS
1,2,3-Trichlorobenzene	25.314	0.100	10.00	10.01	-0.1	30.0	PASS	PASS
2-Methylnaphthalene	12.644	0.100	10.00	8.14	18.6	40.0	PASS	PASS
1-Methylnaphthalene	17.166	0.100	10.00	8.04	19.6	40.0	PASS	PASS

08-21-14

8/21/14

Analyst: cadg

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neric SampleList Printout - Tue Aug 19 15:53:10 2014

mpleList: C:\AgilentWS\081914m.smp

eated: Tue Aug 19 08:27:27 2014
dified: Tue Aug 19 15:50:38 2014

****

Line	Sample Name	Injection Notes
1	b1	below
	Notes All injections contain V-53-0049	
2	5mL rb	none run @ 9:35
3	50ng ccv	below @ 10:04
	Notes V-54-0463	
4	100ng lcs	below
	Notes V-11-8065	
5	vcb	none
6	1408737-006a	below
	Notes r5-1mL	
7	b2	none
8	1408737-007a	below
	Notes r1-5mL possible carryover	
9		
10	b3	none
11	rt check	none
12	b4	none
13	mdl check	none
14	b5	none
15	b6	none
16	b7	none run @ 3:50
17		
18		
19	0.4ppb 5035 crv	below
	Notes V-54-0464	
20	1ppb 5035 crv	below
	Notes V-54-0464	
21	2ppb 5035 crv	below
	Notes V-54-0464	
22	3ppb 5035 crv	below
	Notes V-54-0464	
23	5ppb 5035 crv	below
	Notes V-54-0464	
24	10ppb 5035 crv	below
	Notes V-54-0464	
25	20ppb 5035 crv	below
	Notes V-54-0464	
26	50ppb 5035 crv	below
	Notes V-54-0464	
27	b8	none
28	100ppb 5035 crv	below
	Notes V-54-0464	
29	b9	none
30	b10	none
31	10ppb 5035 icv	below
	Notes V-54-0465	
32	b11	none
33	b12	none @ 11:01
34		

hand calc

Loaded By: 8-19-14
1st Review By: 8-20-14
QA'd By: 8.20.14

irectory for Data Files: C:\AgilentWS\data

Data File Names: %s %d

reate and update a new RecalcList: c:\agilentws\081914m.rcl.

8260/5035 Low
Calibration Summary

Instrument: Mercury **Date:** 8-19-14

Calibration Name: 081914m 8260-5035 Low

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
Dichlorodifluoromethane	☐	☑	☐	☑	re-run on a different instrument
Chloromethane	☐	☐	☑	☐	MQL = 50 ppb
Vinyl chloride	☐	☐	☐	☐	
Chloroethane	☐	☐	☐	☐	
Bromomethane	☐	☐	☐	☐	
Trichlorofluoromethane	☐	☐	☐	☐	
1,1-Dichloroethene	☐	☐	☐	☐	
Acetone	☐	☐	☐	☐	
Carbon disulfide	☐	☐	☐	☐	
Iodomethane	☐	☐	☐	☐	
Methyl tert-butyl ehter (MTBE)	☐	☐	☑	☐	MQL = 10 ppb
Isopropyl ether	☐	☐	☑	☐	0.1 ppb point missing PQL = 1 ppb
tert-Butyl alcohol	☐	☑	☐	☐	not calibrated
trans-1,2-DCE	☐	☐	☐	☐	
tert-Butyl ethyl ether (ETBE)	☐	☐	☑	☐	MQL = 10 ppb
1,1-Dichloroethane	☐	☐	☐	☐	
Methylene Chloride	☐	☐	☐	☐	
Vinyl acetate	☐	☐	☐	☐	
2,2-Dichloropropane	☐	☐	☑	☐	missing 0.1 ppb point PQL = 1 ppb, MQL = 5
2-Butanone	☐	☐	☒	☑	missing 0.1 ppb PQL = 2 ppb
1,1,1-Trichloroethane	☐	☐	☐	☐	
1,1-Dichloropropene	☐	☐	☐	☐	
tert-Amyl methyl ether (TAME)	☐	☐	☐	☐	
Carbon Tetrachloride	☐	☐	☐	☐	
cis-1,2-DCE	☐	☐	☐	☐	
Benzene	☐	☐	☐	☐	
Chloroform	☐	☐	☐	☐	
Bromochloromethane	☐	☐	☐	☐	
Trichloroethene (TCE)	☐	☐	☐	☐	
Dibromofluoromethane	N/A	N/A	☒	☑	missing 0.1 ppb PQL = 1 ppb
1,2-Dichloroethane-d4	N/A	N/A	☐	☐	
1,2-Dichloroethane (EDC)	☐	☐	☐	☐	
1,2-Dichloropropane	☐	☐	☐	☐	
4-Methyl-2-pentanone	☐	☐	☐	☐	
Toluene-d8	N/A	N/A	☐	☐	
Toluene	☐	☐	☐	☐	
2-Choroethyl vinyl ether	☐	☐	☐	☐	
cis-1,3-dichloropropene	☐	☐	☐	☐	
Bromodichloromethane	☐	☐	☐	☐	
Dibromomethane	☐	☐	☐	☐	
2-Hexanone	☐	☐	☐	☐	
Tetrachloroethene (PCE)	☐	☐	☐	☐	
1,3-Dichloropropane	☐	☐	☐	☐	
trans-1,3-dichloropropene	☐	☐	☐	☐	
Ethylbenzene	☐	☐	☐	☐	

This Document Has Been Approved For Use at HEAL on 6/19/2013 by: _____ and _____

8260/5035 Low
Calibration Summary

Analyte	ICV Pass	ICV Fail	Points Removed Yes	Points Removed No	Notes
mp-Xylenes	☑	☐	☐	☑	
1,1,2-Trichloroethane	☑	☐	☐	☑	
Chlorobenzene	☑	☐	☐	☑	
1,2-Dibromoethane (EDB)	☑	☐	☑	☐	UQL= 20 ppb
o-Xylene	☑	☐	☐	☑	
1,1,1,2-Tetrachloroethane	☑	☐	☐	☑	
Dibromochloromethane	☑	☐	☐	☑	
Isopropylbenzene	☑	☐	☐	☑	
Styrene	☑	☐	☐	☑	
n-Propylbenzene	☑	☐	☐	☑	
1,3,5-Trimethylbenzene	☑	☐	☐	☑	
tert-Butylbenzene	☑	☐	☐	☑	
2-Chlorotoluene	☑	☐	☐	☑	
4-Bromofluorobenzene	N/A	N/A	☐	☑	
Bromobenzene	☑	☐	☐	☑	
4-Chlorotoluene	☑	☐	☐	☑	
sec-Butylbenzene	☑	☐	☐	☑	
1,2,4-Trimethylbenzene	☑	☐	☐	☑	
4-Isopropyltoluene	☑	☐	☐	☑	
Bromoform	☑	☐	☐	☑	
1,2,3-Trichloropropane	☑	☐	☐	☑	
n-Butylbenzene	☑	☐	☐	☑	
1,1,2,2-Tetrachloroethane	☑	☐	☐	☑	missing 0.4 ppb point PQL= 1 ppb
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
1,2-Dibromo-3-chloropropane	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☑	☑	~~UQL~~ cg 8.20.14
Naphthalene	☑	☐	☑	☐	UQL= 50 ppb
1,2,3-Trichlorobenzene	☑	☐	☑	☐	UQL= 50 ppb
2-Methylnaphthalene	☑	☐	☑	☐	UQL= 50 ppb
1-Methylnaphthalene	☑	☐	☑	☐	UQL = 50 ppb

Analyst: cg 8.20.14

QA: M 8.20.14

Additional Comments: RTs updated & verified

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): 4\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS Lab Sample ID: 10ppb 5035 crv

Instrument ID: Mercury Date Analyzed: 8/19/2014 Time Analyzed: 18:43

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	IS1		IS2		IS3							
12 HOUR STD	49692	7.14	70557	13.45	27910	17.03						
UPPER LIMIT	99384	7.64	141114	13.95	55820	17.53						
LOWER LIMIT	24846	6.64	35279	12.95	13955	16.53						
EPA SAMPLE NO												
b7 8-19-20	45283	7.14	66077	13.45	24961	17.03						
0.4ppb 503	50697	7.14	71742	13.45	28061	17.03						
1ppb 5035	46172	7.14	65622	13.45	24119	17.03						
2ppb 5035	45318	7.14	67275	13.45	25881	17.03						
3ppb 5035	43106	7.14	61038	13.45	23443	17.03						
5ppb 5035	48846	7.14	69691	13.45	27232	17.03						
20ppb 5035	50228	7.14	74906	13.45	27582	17.03						
50ppb 5035	46582	7.14	66623	13.45	26273	17.03						
b8 8-19-20	50052	7.14	72301	13.45	27451	17.03						
100ppb 503	47545	7.14	62375 D	13.45 D	24106 D	17.03 D						
b9 8-19-20	55107	7.14	78682	13.45	29243	17.03						
b10 8-19-2	51077	7.14	73382	13.45	27108	17.03						
10ppb 5035	50248	7.14	73822	13.45	28104	17.03						
b11 8-19-2	46763	7.14	67014	13.45	26248	17.03						
b12 8-19-2	50543	7.14	69796	13.45	25035	17.03						

SOP, workin area & RT limits
8-20-14

JA 8-20-14

8/20/2014 8:46

Analyst: cadg

	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#	AREA #	RT	#
	IS1			IS2			IS3											

IS 1 = Pentafluorobenzene
IS 2 = Benzene-d5-, chloro-
IS 3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

Analyst: cadg

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Tune Criteria 8260

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: b7 8-19-2014.sms Injection Date: 8/19/2014

Instrument ID: Mercury Injection Time: 15:50

GC Column: DB-VRX ID: 250 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF m/z	
50	15-40% of m/z 95	26.1		
75	30-60% of m/z 95	54.9		
95	base peak	100.0		
96	5-9% of m/z 95	6.6		
173	<2% of m/z 174	0.0	(0.0)	174
174	>50% of m/z 95	68.2		
175	5-9% of m/z 174	5.8	(8.5)	174
176	>95% but <101% of m/z 174	65.9	(96.7)	174
177	5-9% of m/z 176	4.4	(6.6)	176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
3 b7 8-19-20	b7	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b7 8-19-2014.SMS	8/19/2014 15:50
4 0.4ppb 503	0.4ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\0.4ppb 5035 crv 8-19-2014.SMS	8/19/2014 16:19
5 1ppb 5035	1ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\1ppb 5035 crv 8-19-2014.SMS	8/19/2014 16:48
6 2ppb 5035	2ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\2ppb 5035 crv 8-19-2014.SMS	8/19/2014 17:17
7 3ppb 5035	3ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\3ppb 5035 crv 8-19-2014.SMS	8/19/2014 17:46
8 5ppb 5035	5ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\5ppb 5035 crv 8-19-2014.SMS	8/19/2014 18:14
9 10ppb 5035	10ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\10ppb 5035 crv 8-19-2014.SMS	8/19/2014 18:43
10 20ppb 5035	20ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\20ppb 5035 crv 8-19-2014.SMS	8/19/2014 19:12
11 50ppb 5035	50ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\50ppb 5035 crv 8-19-2014.SMS	8/19/2014 19:41

Analyst: cadg

8-20-14 cgs 8-20-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12	b8 8-19-20	b8	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b8 8-19-2014.SMS	8/19/2014 20:09
13	100ppb 503	100ppb 5035 crv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\100ppb 5035 crv 8-19-2014.SMS	8/19/2014 20:38
14	b9 8-19-20	b9	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b9 8-19-2014.SMS	8/19/2014 21:07
15	b10 8-19-2	b10	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b10 8-19-2014.SMS	8/19/2014 21:35
16	10ppb 5035	10ppb 5035 icv	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\10ppb 5035 icv 8-19-2014.SMS	8/19/2014 22:04
17	b11 8-19-2	b11	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b11 8-19-2014.SMS	8/19/2014 22:33
18	b12 8-19-2	b12	h:\mercury_gcms\data\2014\0814m\08191 4m 5035 crv\b12 8-19-2014.SMS	8/19/2014 23:01

cgg 8-20-14

J fr 8-20-14

Analyst: cadg

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260B/5035

Lab Name: Hall Environmental Lab Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: Mercury Cal. Sample Date(s): 8/19/2014 8/19/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 20:38 20:38

GC Column: DB-VRX ID: 250 (mm)

Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 8/19/2014 20:38	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Dichlorodifluoromethane	1.963	1.978	1.764	1.863	1.748	1.659	1.596	1.420	0.9991	1.708	12.6	PASS	PASS
1.378													
Chloromethane	8.174	7.145	6.511	7.434	8.325	8.449	9.533	10.066	0.9991	8.204	14.5	PASS	PASS
Vinyl chloride	8.366	8.571	8.907	10.610	11.000	10.934	10.974	9.537	0.9988	9.887	10.8	PASS	PASS
10.080													
Chloroethane	1.506	1.426	1.422	1.534	2.153	2.045	2.285	2.017	0.9991	1.833	19.2	PASS	PASS
2.113													

Analyst: cadg

8-20-14 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Bromomethane	1.742	1.108	0.939	0.984	1.116	1.509	2.449	3.458	0.9993	1.966	62.5	PASS	PASS
4.393													
Trichlorofluoromethane	2.795	3.164	2.936	2.971	2.876	2.807	2.905	2.746	0.9999	2.888	4.4	PASS	PASS
2.793													
1,1-Dichloroethene	7.454	7.215	7.209	7.445	7.441	7.164	7.113	6.414	0.9986	7.155	4.6	PASS	PASS
6.937													
Acetone	8.006	4.589	3.862	3.586	2.846	2.638	3.109	3.154	0.9996	3.882	42.6	PASS	PASS
3.144													
Carbon disulfide	5.991	6.226	5.992	6.137	5.884	5.794	5.909	5.488	0.9966	5.815	6.8	PASS	PASS
4.917													
Iodomethane	2.000	1.437	1.808	2.532	3.249	4.143	5.988	6.289	0.9995	3.882	57.1	PASS	PASS
7.490													
Methyl tert-butyl ether (MTBE)	7.411	7.986	7.858	7.602	7.656	7.347	7.020	4.820	0.9998	7.212	14.0	PASS	PASS
Isopropyl ether		37.296	37.857	35.211	36.838	36.128	35.417	30.669	0.9981	34.809	9.2	PASS	PASS
29.058													
tert-Butyl alcohol	1.807	1.688	0.080	0.079	0.132	0.122	0.763	0.413	0.7649	0.589	117.6	FAIL	PASS not calibrated
0.216													
trans-1,2-DCE	14.019	13.755	14.013	13.975	14.042	13.932	13.779	12.521	0.9982	13.752	3.5	PASS	PASS
13.730													
tert-Butyl ethyl ether	122.356	124.019	129.388	120.537	123.145	119.195	113.089		0.9991	121.676	4.1	PASS	PASS
Methylene Chloride	56.379	25.848	18.436	14.543	12.178	10.068	9.054	7.537	0.9985	17.994	86.4	PASS	PASS
7.906													
1,1-Dichloroethane	3.641	3.878	4.070	4.407	4.921	5.239	6.047	6.208	0.9999	5.027	22.6	PASS	PASS
6.830													

Analyst: cadg

cg 8-20-14 ✓ 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
Vinyl acetate	0.343	1.091	3.859	6.572	9.298	12.494	16.579	15.989	0.9993	9.136	71.1	PASS	PASS
16.001													
2,2-Dichloropropane		2.306	2.275	2.241	2.290	1.702	1.656	1.011	0.9975	1.926	25.6	PASS	PASS
2-Butanone		3.950	7.149	8.207	6.826	6.532	6.905	6.029	0.9982	6.415	19.4	PASS	PASS
5.723													
1,1,1-Trichloroethane	4.988	5.092	4.798	5.141	5.169	4.978	5.219	4.772	0.9993	5.020	3.1	PASS	PASS
5.018													
1,1-Dichloropropene	7.018	7.124	7.043	7.127	7.023	6.869	6.781	6.336	0.9995	6.884	3.8	PASS	PASS
6.635													
tert-Amyl methyl ether	31.730	30.351	32.700	30.739	32.422	32.378	33.816	27.952	0.9956	30.865	8.3	PASS	PASS
25.701													
Carbon Tetrachloride	2.199	2.306	2.353	2.355	2.388	2.391	2.451	2.140	0.9992	2.309	4.6	PASS	PASS
2.195													
cis-1,2-DCE	2.468	2.802	2.631	2.758	2.773	2.749	2.735	2.547	0.9987	2.691	4.3	PASS	PASS
2.756													
Benzene	10.339	9.594	9.817	9.622	10.294	10.333	10.081	9.240	0.9981	9.944	4.0	PASS	PASS
10.178													
Chloroform	4.627	4.871	5.053	5.044	5.074	5.240	5.415	4.980	0.9981	5.088	5.2	PASS	PASS
5.491													
Bromochloromethane	3.897	3.939	4.268	4.280	4.178	3.639	3.365	3.106	0.9994	3.764	12.1	PASS	PASS
3.207													
Trichloroethene (TCE)	16.870	16.136	15.399	16.071	15.769	15.401	15.736	14.283	0.9987	15.675	4.5	PASS	PASS
15.407													
Dibromofluoromethane	2.576	2.665	2.802	2.754	3.141	3.016	3.153	3.145	0.9517	2.908	7.6	PASS	PASS
2.923													

Analyst: cadg

cag 8-20-14 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,2-Dichloroethane-d4	11.749	11.929	12.480	11.896	12.303	12.019	11.972	11.671	0.9951	11.960	2.4	PASS	PASS
11.621													
1,2-Dichloroethane (EDC)	64.962	65.907	71.633	67.538	69.940	69.240	69.256	60.542	0.9988	67.034	5.1	PASS	PASS
64.288													
1,2-Dichloropropane	22.762	20.765	21.791	21.807	21.946	21.313	21.211	19.162	0.9992	21.216	5.0	PASS	PASS
20.186													
4-Methyl-2-pentanone	4.163	4.250	4.361	4.633	4.624	4.488	4.439	4.149	0.9972	4.421	4.6	PASS	PASS
4.679													
Toluene-d8	1.837	1.848	1.842	1.829	1.971	1.857	1.797	1.896	0.9770	1.888	5.1	PASS	PASS
2.110													
Toluene	10.915	10.634	10.092	10.902	11.028	10.271	10.242	9.380	0.9958	10.482	5.1	PASS	PASS
10.871													
2-Chloroethyl vinyl ether	1.766	3.694	3.622	3.971	4.794	5.475	5.655	4.318	0.9972	4.143	27.9	PASS	PASS
3.991													
cis-1,3-dichloropropene	13.241	14.458	14.752	15.219	16.586	16.601	16.449	15.805	0.9946	15.764	10.1	PASS	PASS
18.763													
Bromodichloromethane	2.820	2.872	2.858	2.904	3.122	3.203	3.002	2.910	0.9952	3.011	6.5	PASS	PASS
3.411													
2-Hexanone	4.510	12.764	12.874	12.671	12.365	12.057	12.576	11.205	0.9947	11.586	23.4	PASS	PASS
13.255													
Tetrachloroethene (PCE)	3.008	2.705	2.610	2.891	2.723	2.733	2.717	2.443	0.9921	2.760	6.7	PASS	PASS
3.010													
Dibromomethane		5.232	5.274	5.462	5.602	5.105	4.945	3.963	0.9978	4.946	12.8	PASS	PASS
3.986													
1,3-Dichloropropane	5.293	5.494	5.466	5.922	6.330	5.963	6.015	5.305	0.9950	5.781	6.9	PASS	PASS
6.237													

Analyst: cadg

8/20/2014

8.20.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
trans-1,3-dichloropropene	1.993	2.526	2.744	2.878	2.987	3.080	3.015	2.793	0.9976	2.793	12.7	PASS	PASS
3.124													
Ethylbenzene	13.077	12.099	12.185	12.979	12.196	11.728	11.581	10.922	0.9975	12.106	5.5	PASS	PASS
12.190													
mp-Xylenes	11.008	11.526	10.270	10.888	10.610	10.844	9.859	9.419	0.9955	10.596	6.1	PASS	PASS
10.937													
1,1,2-Trichloroethane	7.004	7.014	6.748	6.762	6.975	6.810	6.152	5.352	0.9977	6.519	9.1	PASS	PASS
5.850													
Chlorobenzene	5.570	5.376	5.206	5.585	5.313	5.252	5.309	4.906	0.9960	5.354	4.4	PASS	PASS
5.674													
1,2-Dibromoethane (EDB)	1.654	1.756	1.656	1.764	1.774	1.690	1.688		0.9998	1.712	3.0	PASS	PASS
o-Xylene	11.059	11.145	11.233	11.322	11.314	11.100	10.610	10.287	0.9969	11.080	3.7	PASS	PASS
11.652													
Dibromochloromethane	1.332	1.480	1.467	1.467	1.492	1.495	1.379	1.369	0.9987	1.440	4.3	PASS	PASS
1.476													
1,1,1,2-Tetrachloroethane	2.567	2.471	2.674	2.530	2.616	2.529	2.434	2.244	0.9982	2.503	4.9	PASS	PASS
2.458													
Isopropylbenzene	10.994	10.792	10.489	10.942	10.611	10.797	10.068	9.321	0.9962	10.523	5.0	PASS	PASS
10.692													
Styrene	5.140	5.372	5.411	5.397	5.304	5.278	5.125	5.097	0.9958	5.336	4.5	PASS	PASS
5.896													
n-Propylbenzene	36.998	40.859	35.087	39.151	35.254	33.827	35.147	30.839	0.9949	35.940	8.1	PASS	PASS
36.297													
1,3,5-Trimethylbenzene	26.769	28.317	25.927	27.515	25.048	24.797	25.181	22.601	0.9945	25.884	6.6	PASS	PASS
26.802													

Analyst: cadg

8.20.14

8.19.2014

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
tert-Butylbenzene	30.399	33.439	30.754	32.345	29.703	28.632	29.598	25.791	0.9955	30.074	7.2	PASS	PASS
30.008													
2-Chlorotoluene	9.623	9.495	9.377	9.079	8.615	8.538	8.712	7.773	0.9948	8.931	6.5	PASS	PASS
9.169													
4-Bromofluorobenzene	2.347	2.498	2.416	2.372	2.443	2.367	2.432	2.370	0.9603	2.459	6.8	PASS	PASS
2.888													
Bromobenzene	43.583	45.560	42.309	45.962	42.163	42.699	41.465	33.707	0.9981	41.383	10.3	PASS	PASS
34.999													
4-Chlorotoluene	65.420	63.738	60.995	64.193	59.882	62.368	64.040	62.557	0.9986	65.980	14.2	PASS	PASS
90.627													
sec-Butylbenzene	40.270	40.380	36.313	42.607	36.684	37.045	36.687	34.271	0.9968	38.129	6.8	PASS	PASS
38.906													
1,2,4-Trimethylbenzene	84.225	90.238	85.396	89.831	82.712	78.167	82.324	73.468	0.9944	83.727	6.5	PASS	PASS
87.181													
4-Isopropyltoluene	28.464	29.642	29.092	30.073	27.742	26.500	27.315	24.610	0.9968	27.928	6.0	PASS	PASS
27.910													
Bromoform	7.798	8.499	8.674	9.050	8.843	9.067	9.376	8.682	0.9966	8.881	6.7	PASS	PASS
9.942													
1,2,3-Trichloropropane	9.163	12.103	11.023	10.982	11.181	10.849	11.664	9.918	0.9951	10.946	8.3	PASS	PASS
11.630													
n-Butylbenzene	43.046	48.684	45.537	52.111	44.230	44.781	48.064	41.931	0.9974	46.139	6.8	PASS	PASS
46.864													
1,1,2,2-Tetrachloroethane	[illegible]	34.095	35.579	36.802	36.011	38.989	38.488	33.743	0.9929	36.831	6.8	PASS	PASS
40.944													
1,3-Dichlorobenzene	11.261	11.859	11.701	11.902	11.459	11.111	11.571	9.964	0.9933	11.430	5.5	PASS	PASS
12.040													

Analyst: cadg

8-20-14

cg 8-20-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9													
1,4-Dichlorobenzene	10.227	11.385	10.738	11.207	10.600	10.737	10.714	9.833	0.9951	10.778	5.1	PASS	PASS
11.561													
1,2-Dichlorobenzene	11.023	11.759	11.330	11.373	11.395	10.888	11.800	10.082	0.9927	11.328	5.6	PASS	PASS
12.305													
Hexachlorobutadiene	33.119	32.677	28.992	30.505	27.770	26.121	25.591	22.411	0.9915	28.324	12.2	PASS	PASS
27.730													
1,2-Dibromo-3-chloropropane	6.009	7.269	7.403	8.370	7.528	7.974	8.384	7.691	0.9964	7.719	10.7	PASS	PASS
8.847													
1,2,4-Trichlorobenzene	23.674	27.844	29.175	31.365	28.584	28.522	30.735	28.691	0.9928	29.289	10.4	PASS	PASS
35.012													
Naphthalene	5.661	7.621	8.289	8.789	9.228	9.355	10.931	11.754	0.9985	8.954	21.1	PASS	PASS
1,2,3-Trichlorobenzene	18.198	22.704	23.474	26.508	25.170	25.107	26.919	24.851	0.9988	24.116	11.5	PASS	PASS
2-Methylnaphthalene	10.526	11.784	12.527	13.713	13.345	13.592	16.690	16.306	0.9988	13.560	15.5	PASS	PASS
1-Methylnaphthalene	13.706	16.688	16.556	18.082	17.959	19.364	22.590	22.546	0.9992	18.436	16.4	PASS	PASS
									Average %RSD		13.8		

8-20-14

cg 8-20-14

Analyst: cadg

LABORATORY CONTROL SAMPLE REPORT

Data File: h:\mercury_gcms\data\2014\0814m\081914m 5035 crv\10ppb **Acquisition Date:** 8/19/2014 22:04

Comment: V-54-0465

SampleID: 10ppb 5035 icv **Analyst:** Christina Gallegos

Calibration File: H:\Mercury_GCMS\Data\2014\0814m\081914m 5035 crv\10ppb 5035 crv 8-19-2014.SMS

Cal. Sample Dates: First: 8/19/2014 20:38 **Last:** 8/19/2014 20:38

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
21)	* Pentafluorobenzene	20.00	ppb	20.00	100 %	70 - 130	PASS
49)	* Benzene-d5-, chloro-	20.00	ppb	20.00	100 %	70 - 130	PASS
72)	* 1,4-Dichlorobenzene-d4	20.00	ppb	20.00	100 %	70 - 130	PASS
1)	Dichlorodifluoromethane	15.72	ppb	10.00	157 %	70 - 130	FAIL
2)	Chloromethane	9.96	ppb	10.00	100 %	70 - 130	PASS
3)	Vinyl chloride	11.42	ppb	10.00	114 %	80 - 120	PASS
4)	Chloroethane	10.62	ppb	10.00	106 %	70 - 130	PASS
5)	Bromomethane	10.01	ppb	10.00	100 %	70 - 130	PASS
6)	Trichlorofluoromethane	8.45	ppb	10.00	84 %	70 - 130	PASS
7)	1,1-Dichloroethene	8.82	ppb	10.00	88 %	80 - 140	PASS
8)	Acetone	15.05	ppb	20.00	75 %	60 - 140	PASS
9)	Carbon disulfide	18.83	ppb	20.00	94 %	60 - 140	PASS
10)	Iodomethane	15.95	ppb	20.00	80 %	60 - 140	PASS
11)	Methyl tert-butyl ether (MTBE)	17.95	ppb	20.00	90 %	70 - 130	PASS
12)	Isopropyl ether	20.55	ppb	20.00	103 %	60 - 140	PASS
13)	tert-Butyl alcohol	34.20	ppb	200.00	17 %	60 - 140	FAIL
14)	trans-1,2-DCE	9.06	ppb	10.00	91 %	70 - 130	PASS
15)	tert-Butyl ethyl ether	18.53	ppb	20.00	93 %	60 - 140	PASS
16)	Methylene Chloride	9.36	ppb	10.00	94 %	70 - 130	PASS
17)	1,1-Dichloroethane	8.89	ppb	10.00	89 %	70 - 130	PASS
18)	Vinyl acetate	20.87	ppb	20.00	104 %	60 - 140	PASS
19)	2,2-Dichloropropane	11.50	ppb	10.00	115 %	70 - 130	PASS
20)	2-Butanone	19.29	ppb	20.00	96 %	60 - 140	PASS
22)	1,1,1-Trichloroethane	9.21	ppb	10.00	92 %	70 - 130	PASS
23)	1,1-Dichloropropene	8.97	ppb	10.00	90 %	70 - 130	PASS
24)	tert-Amyl methyl ether	21.28	ppb	20.00	106 %	60 - 140	PASS
25)	Carbon Tetrachloride	8.69	ppb	10.00	87 %	70 - 130	PASS
26)	cis-1,2-DCE	9.44	ppb	10.00	94 %	70 - 130	PASS
27)	Benzene	9.18	ppb	10.00	92 %	70 - 130	PASS
28)	Chloroform	9.13	ppb	10.00	91 %	80 - 120	PASS
29)	Bromochloromethane	11.37	ppb	10.00	114 %	70 - 130	PASS
30)	Trichloroethene (TCE)	9.05	ppb	10.00	90 %	70 - 130	PASS
33)	1,2-Dichloroethane (EDC)	9.71	ppb	10.00	97 %	70 - 130	PASS
34)	1,2-Dichloropropane	9.63	ppb	10.00	96 %	80 - 120	PASS
35)	4-Methyl-2-pentanone	18.98	ppb	20.00	95 %	60 - 140	PASS
37)	Toluene	8.71	ppb	10.00	87 %	70 - 130	PASS
38)	2-Chloroethyl vinyl ether	22.21	ppb	20.00	111 %	60 - 140	PASS
39)	cis-1,3-dichloropropene	7.44	ppb	10.00	74 %	70 - 130	PASS
40)	Bromodichloromethane	8.78	ppb	10.00	88 %	70 - 130	PASS
41)	2-Hexanone	17.22	ppb	20.00	86 %	60 - 140	PASS

or hits on a different instrument cag 8-20-14

not calibrated

8/19-20.14

Analyst: cadg

	Compound	Conc	Units	Amount	Accuracy	Limits	Status
42)	Tetrachloroethene (PCE)	8.62	ppb	10.00	86 %	70 - 130	PASS
43)	Dibromomethane	10.66	ppb	10.00	107 %	70 - 130	PASS
44)	1,3-Dichloropropane	8.72	ppb	10.00	87 %	70 - 130	PASS
45)	trans-1,3-dichloropropene	8.34	ppb	10.00	83 %	70 - 130	PASS
46)	Ethylbenzene	8.89	ppb	10.00	89 %	80 - 120	PASS
47)	mp-Xylenes	17.93	ppb	20.00	90 %	70 - 130	PASS
48)	1,1,2-Trichloroethane	10.12	ppb	10.00	101 %	70 - 130	PASS
50)	Chlorobenzene	8.78	ppb	10.00	88 %	70 - 130	PASS
51)	1,2-Dibromoethane (EDB)	8.94	ppb	10.00	89 %	70 - 130	PASS
52)	o-Xylene	9.23	ppb	10.00	92 %	70 - 130	PASS
53)	Dibromochloromethane	9.93	ppb	10.00	99 %	70 - 130	PASS
54)	1,1,1,2-Tetrachloroethane	9.98	ppb	10.00	100 %	70 - 130	PASS
55)	Isopropylbenzene	8.93	ppb	10.00	89 %	70 - 130	PASS
56)	Styrene	8.74	ppb	10.00	87 %	70 - 130	PASS
57)	n-Propylbenzene	8.85	ppb	10.00	89 %	70 - 130	PASS
58)	1,3,5-Trimethylbenzene	8.89	ppb	10.00	89 %	70 - 130	PASS
59)	tert-Butylbenzene	9.45	ppb	10.00	95 %	70 - 130	PASS
60)	2-Chlorotoluene	9.46	ppb	10.00	95 %	70 - 130	PASS
62)	Bromobenzene	10.32	ppb	10.00	103 %	70 - 130	PASS
63)	4-Chlorotoluene	10.63	ppb	10.00	106 %	70 - 130	PASS
64)	sec-Butylbenzene	8.74	ppb	10.00	87 %	70 - 130	PASS
65)	1,2,4-Trimethylbenzene	8.90	ppb	10.00	89 %	70 - 130	PASS
66)	4-Isopropyltoluene	9.29	ppb	10.00	93 %	70 - 130	PASS
67)	Bromoform	9.25	ppb	10.00	93 %	70 - 130	PASS
68)	1,2,3-Trichloropropane	9.03	ppb	10.00	90 %	70 - 130	PASS
69)	n-Butylbenzene	8.53	ppb	10.00	85 %	70 - 130	PASS
70)	1,1,2,2-Tetrachloroethane	9.53	ppb	10.00	95 %	70 - 130	PASS
71)	1,3-Dichlorobenzene	9.40	ppb	10.00	94 %	70 - 130	PASS
73)	1,4-Dichlorobenzene	8.89	ppb	10.00	89 %	70 - 130	PASS
74)	1,2-Dichlorobenzene	8.76	ppb	10.00	88 %	70 - 130	PASS
75)	Hexachlorobutadiene	8.64	ppb	10.00	86 %	70 - 130	PASS
76)	1,2-Dibromo-3-chloropropane	9.00	ppb	10.00	90 %	70 - 130	PASS
77)	1,2,4-Trichlorobenzene	7.91	ppb	10.00	79 %	70 - 130	PASS
78)	Naphthalene	7.97	ppb	10.00	80 %	70 - 130	PASS
79)	1,2,3-Trichlorobenzene	8.71	ppb	10.00	87 %	70 - 130	PASS
80)	2-Methylnaphthalene	9.47	ppb	10.00	95 %	60 - 140	PASS
81)	1-Methylnaphthalene	8.73	ppb	10.00	87 %	60 - 140	PASS

* indicates Internal Standard.

8/20-20-14

8/20/2014

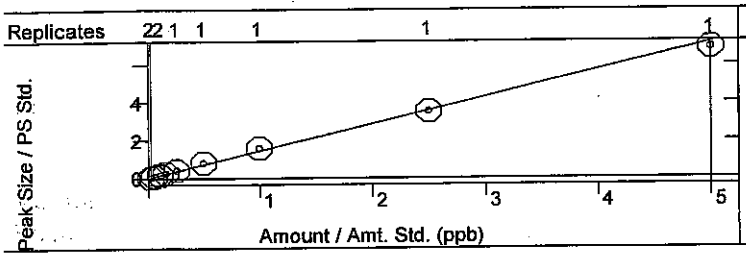
Analyst: cadg

Calibration Curves Report

Jhe 8.20.14 cal 8-20-14

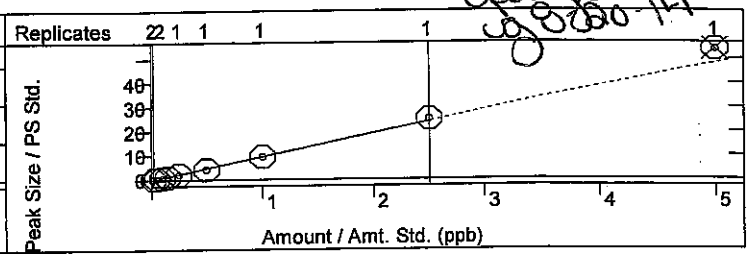
Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Dichlorodifluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.65%, Coeff. Det.(r2): 0.999111
y = +1.4270x +0.0268

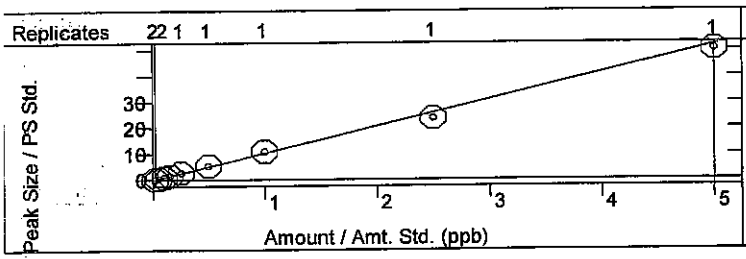


Chloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 14.49%, Coeff. Det.(r2): 0.999063
y = +9.6943x -0.1267

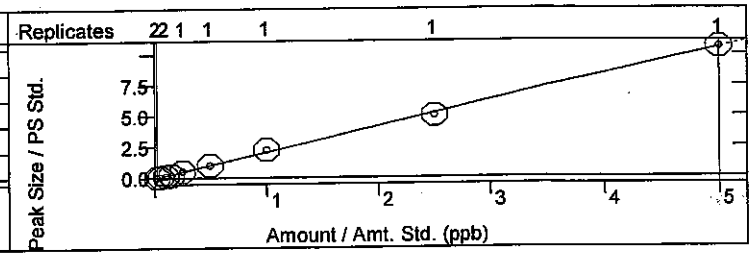
cal fit 8-20-14



Vinyl chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/nX2
Resp. Fact. RSD: 10.85%, Coeff. Det.(r2): 0.998803
y = +10.3894x -0.0480

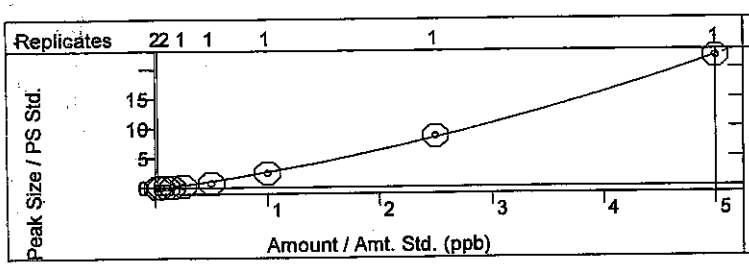


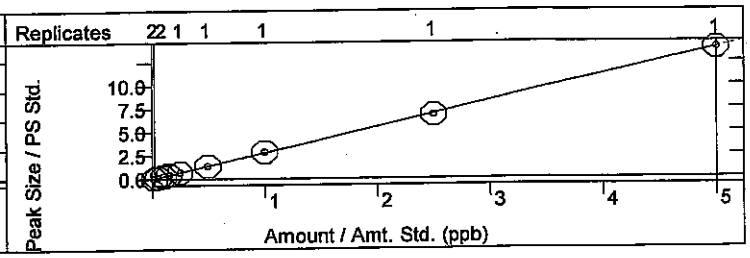
Chloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.24%, Coeff. Det.(r2): 0.999088
y = +2.1067x -0.0261



Bromomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 62.50%, Coeff. Det.(r2): 0.999294
y = +0.3986x2 +2.4556x -0.2303

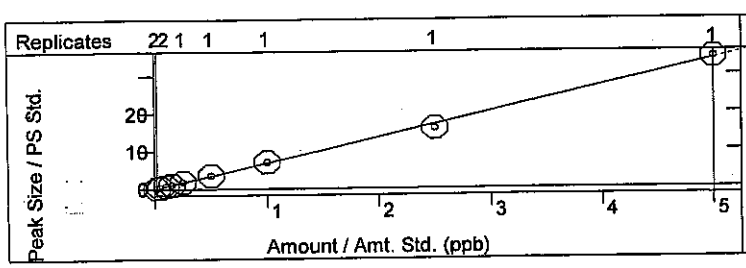
Trichlorofluoromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.416%, Coeff. Det.(r2): 0.999857
y = +2.7930x +0.0091

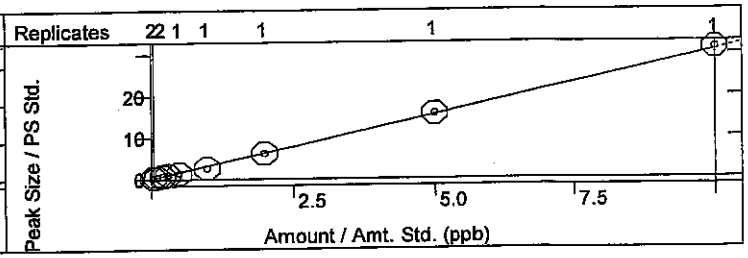




1,1-Dichloroethene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.587%, Coeff. Det.(r2): 0.998572
y = +6.8276x +0.0312

Acetone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 42.61%, Coeff. Det.(r2): 0.999569
y = +3.0679x +0.1554



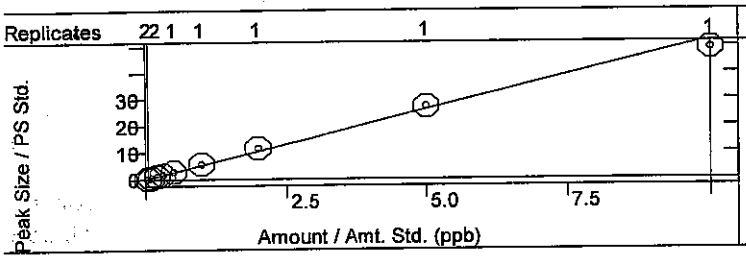


Calibration Curves Report

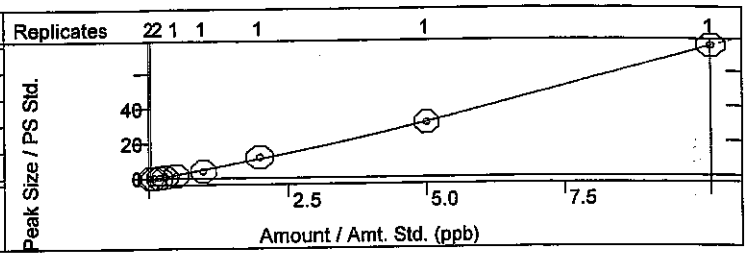
JMB-20-14 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

Carbon disulfide
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.831%, Coeff. Det.(r2): 0.996551
y = +5.2275x +0.1122

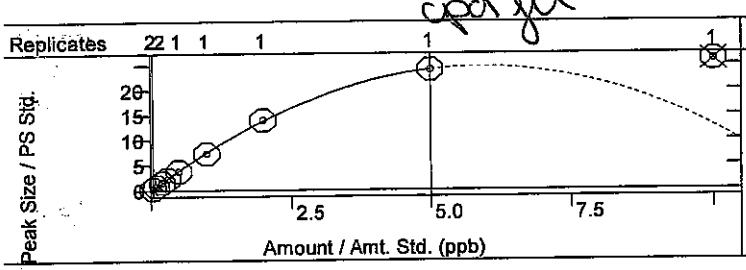


Iodomethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 57.14%, Coeff. Det.(r2): 0.999541
y = +0.2165x2 +5.3870x -0.6564

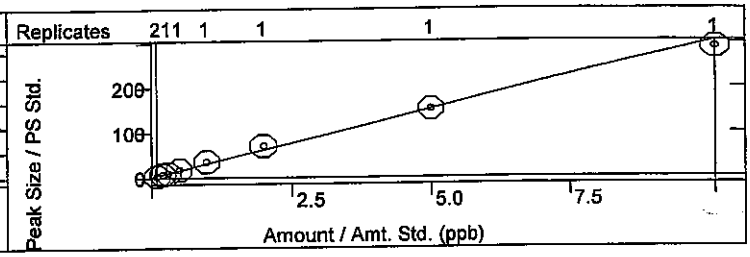


Methyl tert-butyl ether (MTBE)
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.04%, Coeff. Det.(r2): 0.999764
y = -0.7137x2 +8.4165x -0.1220

cpd fit

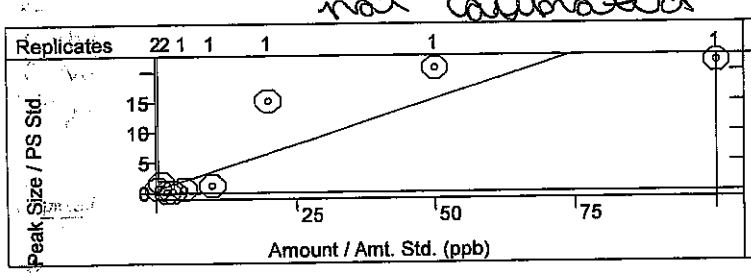


Isopropyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.218%, Coeff. Det.(r2): 0.998114
y = +30.2631x +1.6432

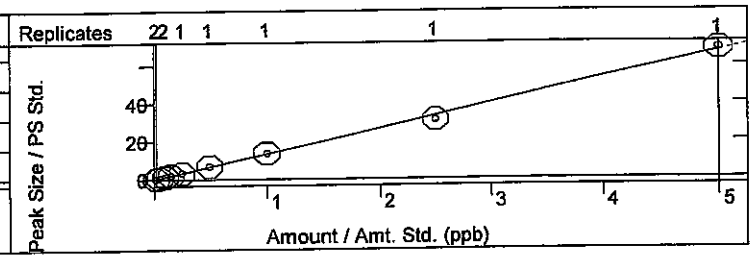


tert-Butyl alcohol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 117.60%, Coeff. Det.(r2): 0.764910
y = +0.2989x +0.5537

not calibrated

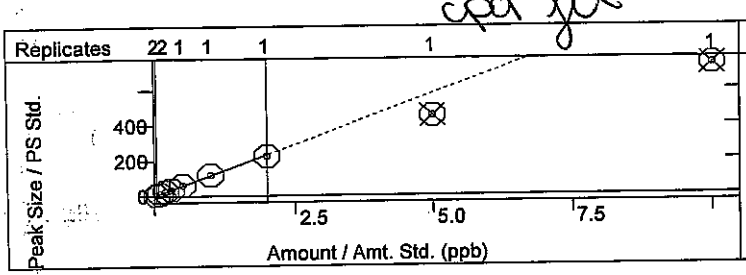


trans-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.471%, Coeff. Det.(r2): 0.998196
y = +13.4153x +0.0321

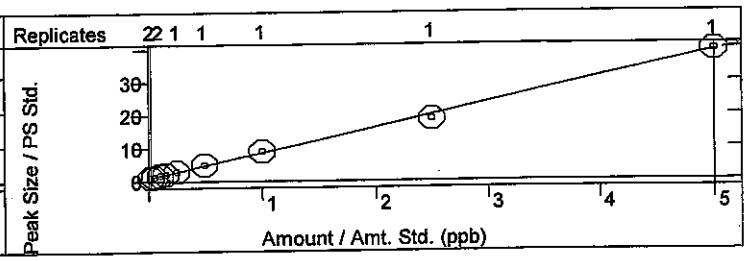


tert-Butyl ethyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.092%, Coeff. Det.(r2): 0.999131
y = +116.0332x +0.8433

cpd fit



Methylene Chloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 86.43%, Coeff. Det.(r2): 0.998527
y = +7.6328x +0.9892



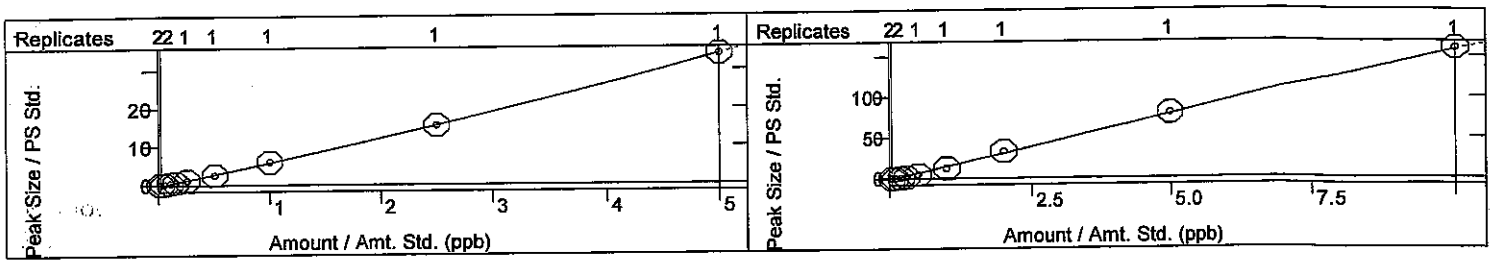
Calibration Curves Report

JMB 8-20-14 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,1-Dichloroethane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 22.56%, Coeff. Det.(r2): 0.999897
y = +0.2249x2 +5.7317x -0.1425

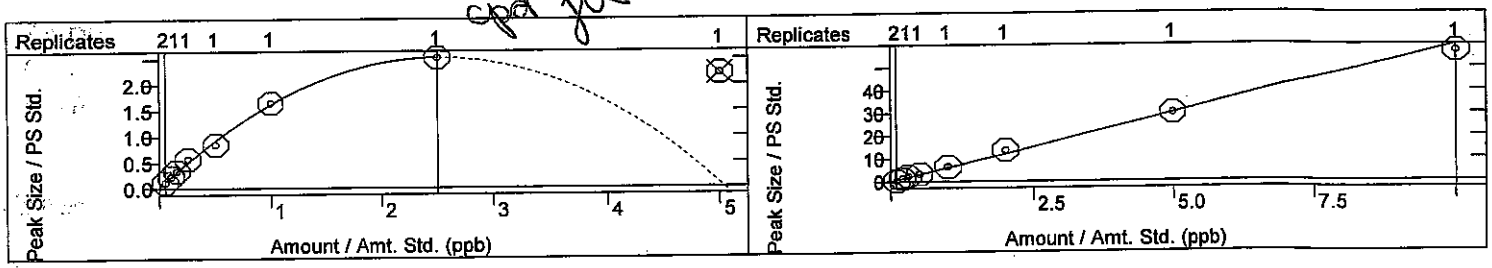
Vinyl acetate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 71.07%, Coeff. Det.(r2): 0.999318
y = +15.9239x -1.2961



2,2-Dichloropropane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 25.59%, Coeff. Det.(r2): 0.997505
y = -0.3960x2 +1.9878x +0.0359

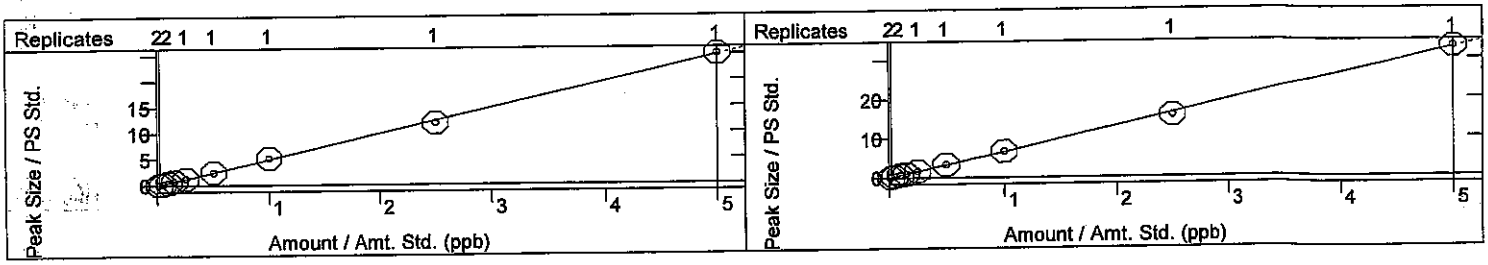
2-Butanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 19.43%, Coeff. Det.(r2): 0.998238
y = +5.9766x +0.1585

cpd fit



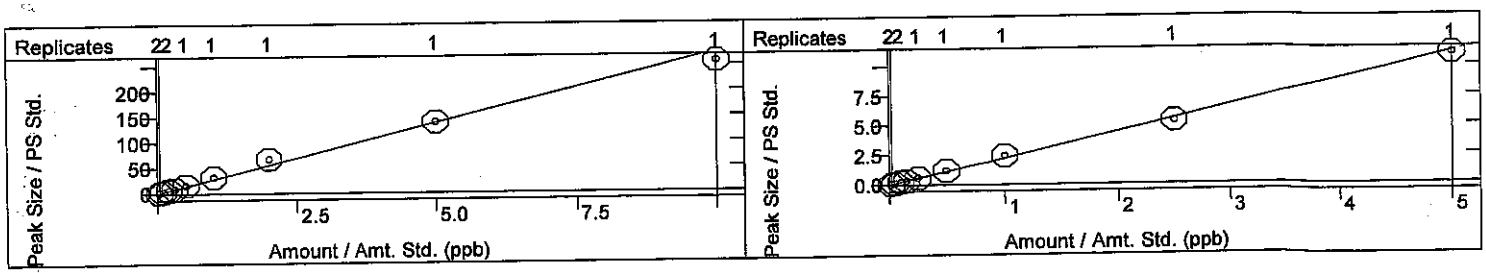
1,1,1-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.111%, Coeff. Det.(r2): 0.999338
y = +4.9724x +0.0045

1,1-Dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.816%, Coeff. Det.(r2): 0.999462
y = +6.5828x +0.0288



tert-Amyl methyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.337%, Coeff. Det.(r2): 0.995649
y = +27.5529x +0.6325

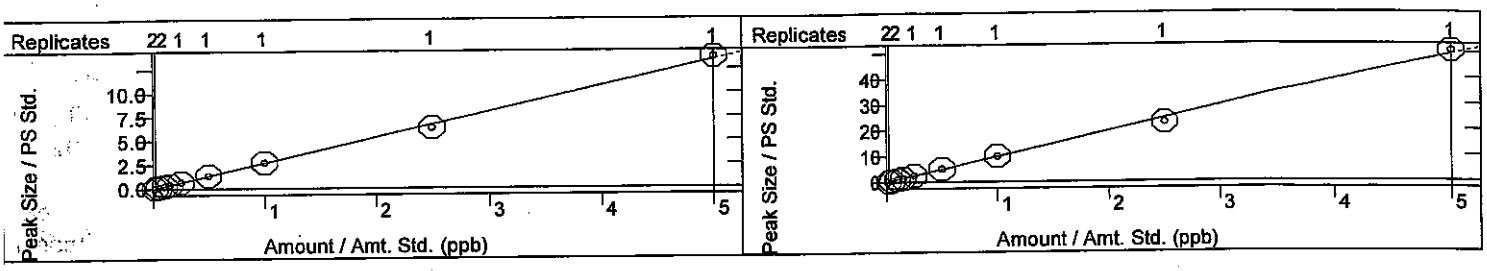
Carbon Tetrachloride
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.614%, Coeff. Det.(r2): 0.999242
y = +2.2194x +0.0085



Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

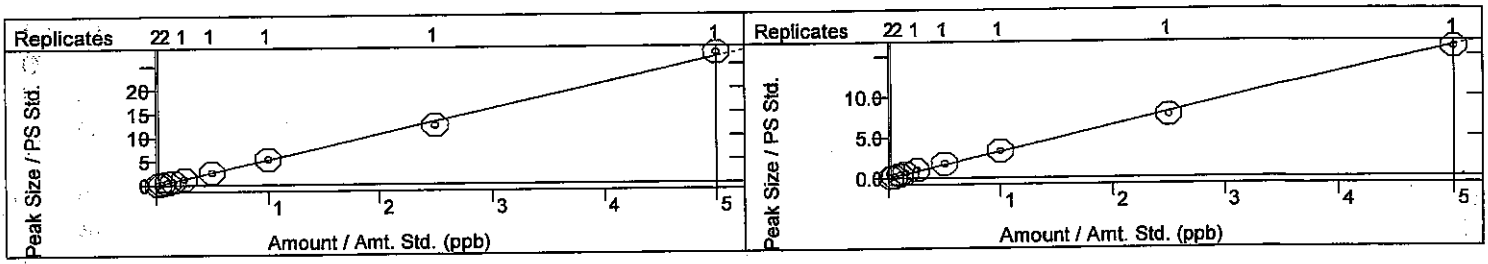
cis-1,2-DCE
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.301%, Coeff. Det.(r2): 0.998717
y = +2.6982x -6.7023e-4

Benzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.961%, Coeff. Det.(r2): 0.998071
y = +9.9164x +0.0027



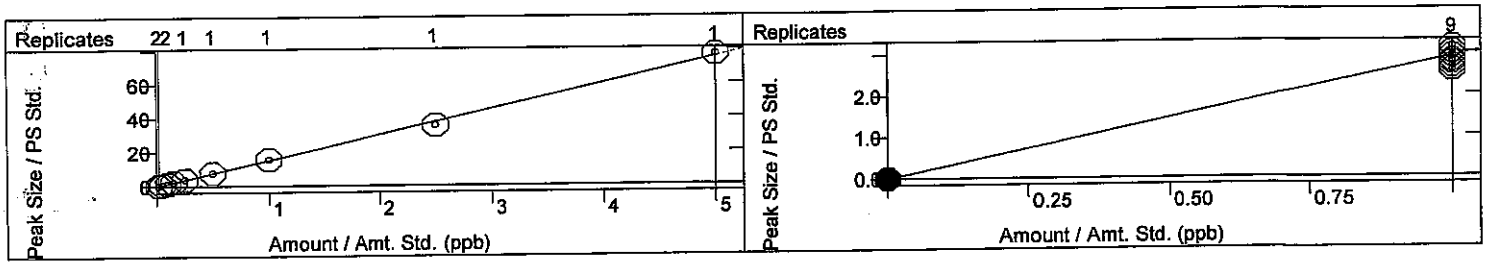
Chloroform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.233%, Coeff. Det.(r2): 0.998132
y = +5.3306x -0.0231

Bromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.09%, Coeff. Det.(r2): 0.999388
y = +3.2305x +0.0510



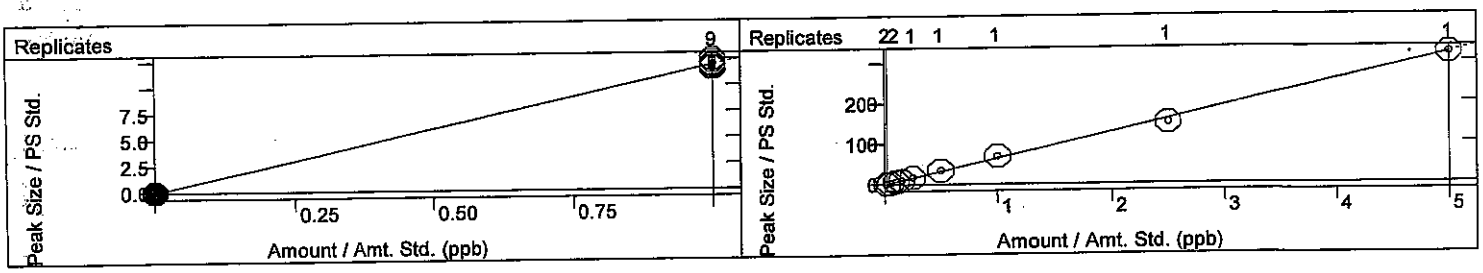
Trichloroethene (TCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.495%, Coeff. Det.(r2): 0.998719
y = +15.1244x +0.0525

Dibromofluoromethane
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 7.555%, Coeff. Det.(r2): 0.951708
y = +2.9084x



1,2-Dichloroethane-d4
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 2.364%, Coeff. Det.(r2): 0.995058
y = +11.9599x

1,2-Dichloroethane (EDC)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.138%, Coeff. Det.(r2): 0.998813
y = +64.1099x +0.2792



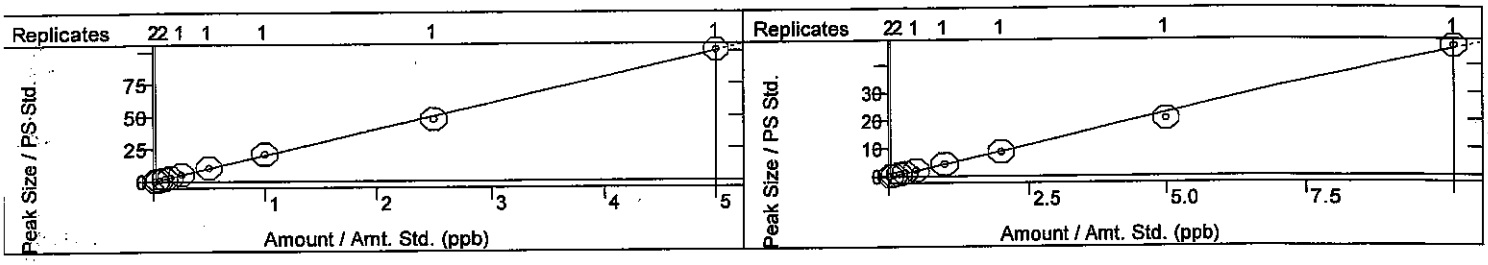
Calibration Curves Report

JRE-20-14 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

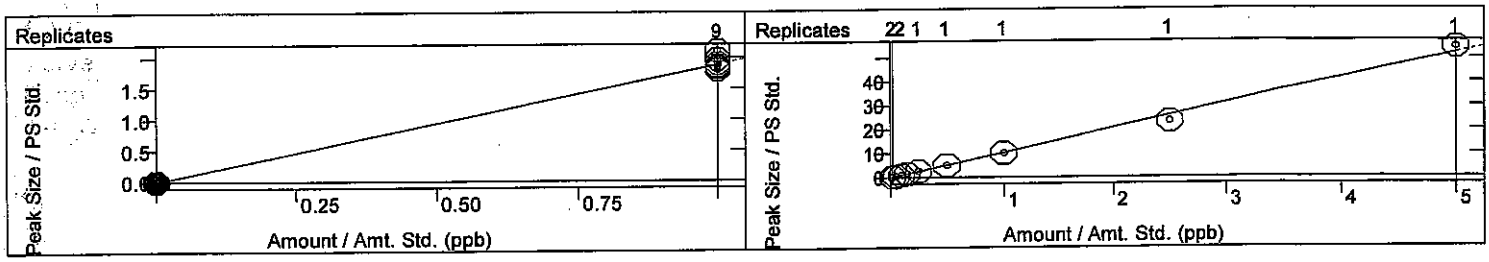
1,2-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.026%, Coeff. Det.(r2): 0.999201
y = +20.0792x +0.1085

4-Methyl-2-pentanone
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.602%, Coeff. Det.(r2): 0.997162
y = +4.6009x -0.2215



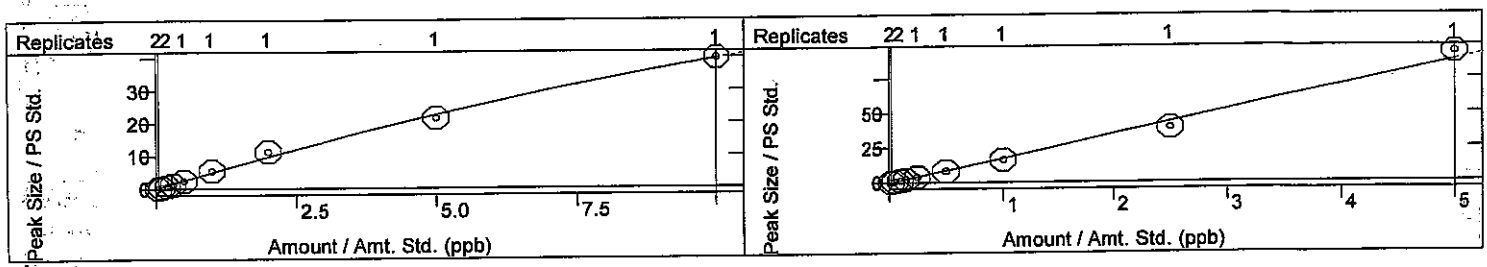
Toluene-d8
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 5.146%, Coeff. Det.(r2): 0.977006
y = +1.8875x

Toluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.122%, Coeff. Det.(r2): 0.995772
y = +10.3698x +0.0107



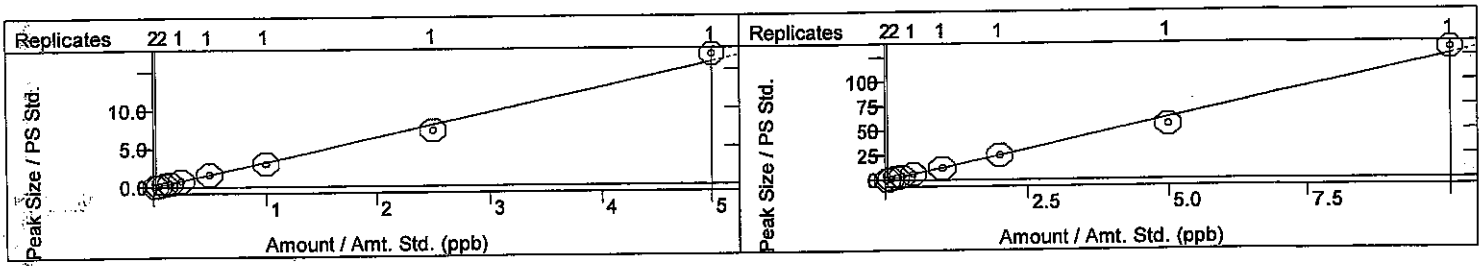
2-Chloroethyl vinyl ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.90%, Coeff. Det.(r2): 0.997166
y = -0.1113x2 +5.0804x +0.0344

cis-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.09%, Coeff. Det.(r2): 0.994577
y = +17.6131x -0.1766



Bromodichloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.538%, Coeff. Det.(r2): 0.995173
y = +3.2198x -0.0199

2-Hexanone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 23.45%, Coeff. Det.(r2): 0.994739
y = +12.6219x -0.1977



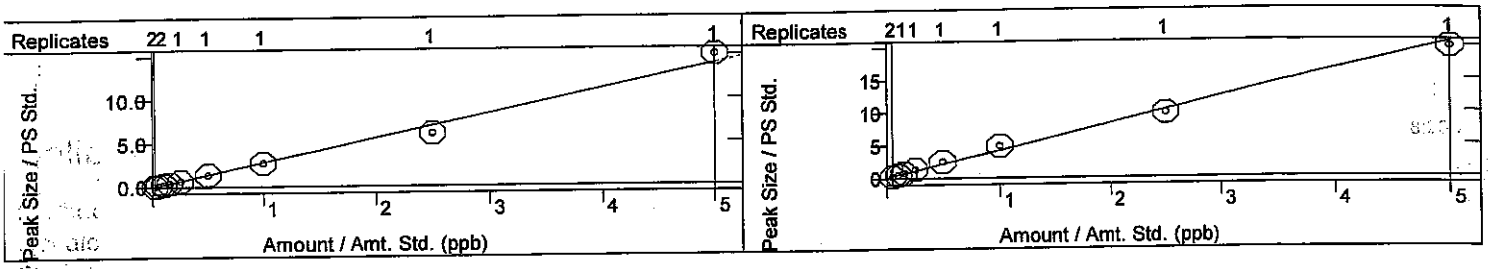
Calibration Curves Report

cg 8-20-14 /Mar20.M

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

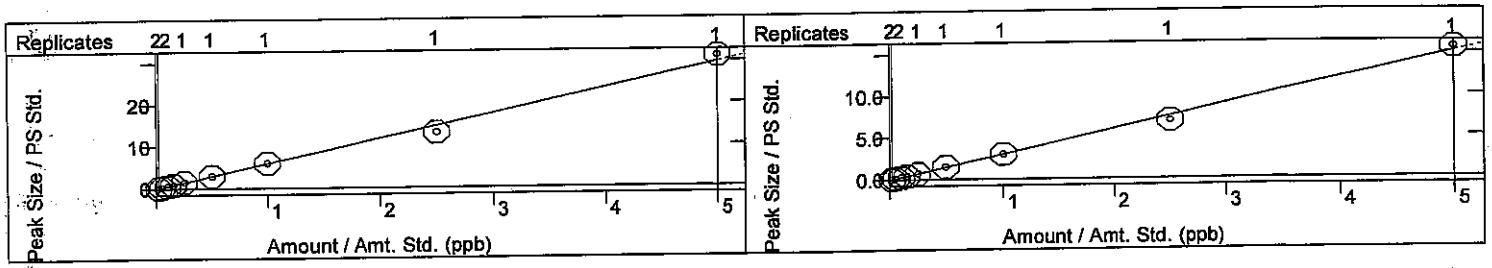
Tetrachloroethene (PCE)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.674%, Coeff. Det.(r2): 0.992081
y = +2.8060x -0.0044

Dibromomethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.79%, Coeff. Det.(r2): 0.997795
y = +4.0957x +0.1537



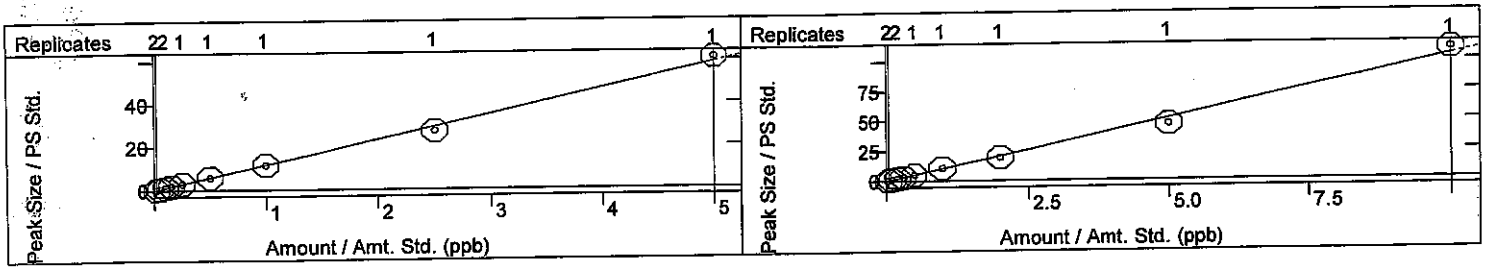
1,3-Dichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.875%, Coeff. Det.(r2): 0.995013
y = +5.9557x -0.0167

trans-1,3-dichloropropene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.65%, Coeff. Det.(r2): 0.997566
y = +3.0278x -0.0224



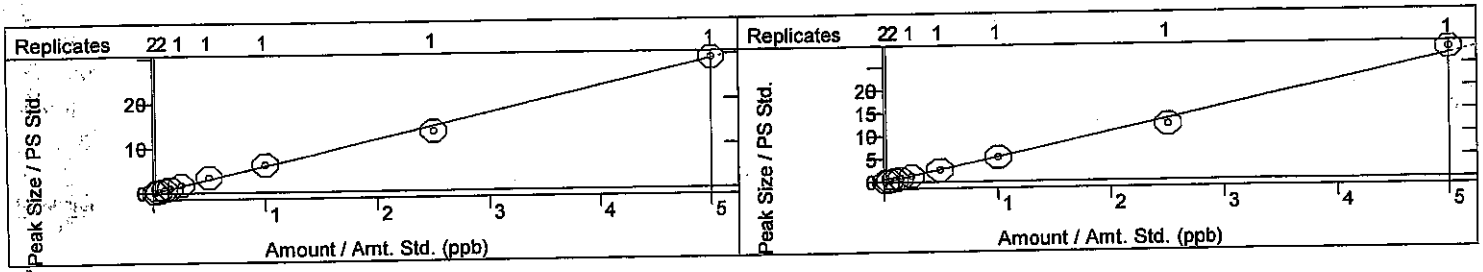
Ethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.501%, Coeff. Det.(r2): 0.997549
y = +11.7531x +0.0337

mp-Xylenes
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.091%, Coeff. Det.(r2): 0.995537
y = +10.3914x +0.0390



1,1,2-Trichloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 9.124%, Coeff. Det.(r2): 0.997727
y = +5.7984x +0.0688

Chlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.379%, Coeff. Det.(r2): 0.995955
y = +5.3998x -0.0043



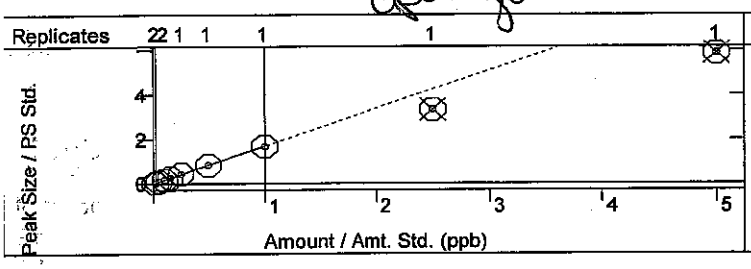
Calibration Curves Report

8/20/14 cg 8-20-14

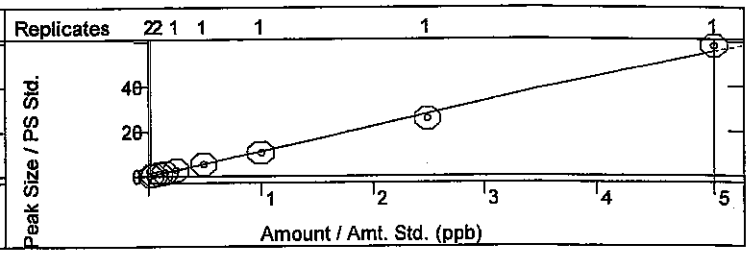
Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2-Dibromoethane (EDB)
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.019%, Coeff. Det.(r2): 0.999785
y = +1.7017x +7.5175e-4

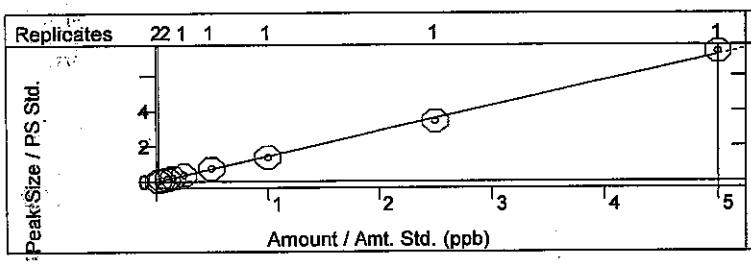
cpd fit



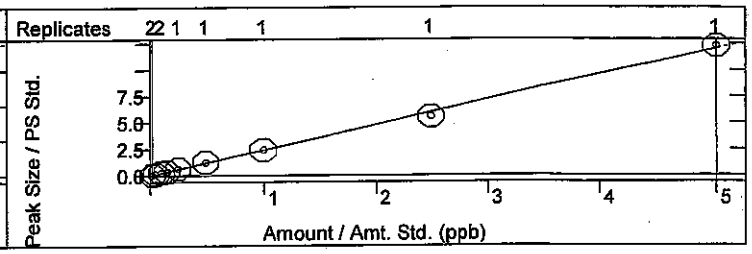
o-Xylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.665%, Coeff. Det.(r2): 0.996878
y = +11.1408x -0.0058



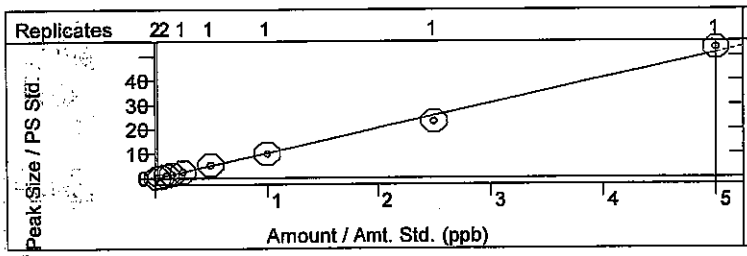
Dibromochloromethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.291%, Coeff. Det.(r2): 0.998741
y = +1.4387x +9.7474e-5



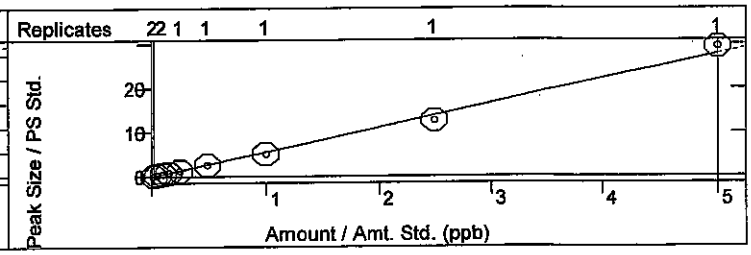
1,1,1,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.941%, Coeff. Det.(r2): 0.998212
y = +2.4021x +0.0096



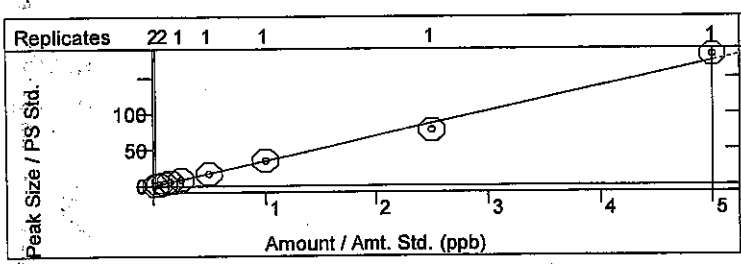
Isopropylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.023%, Coeff. Det.(r2): 0.996235
y = +10.2503x +0.0260



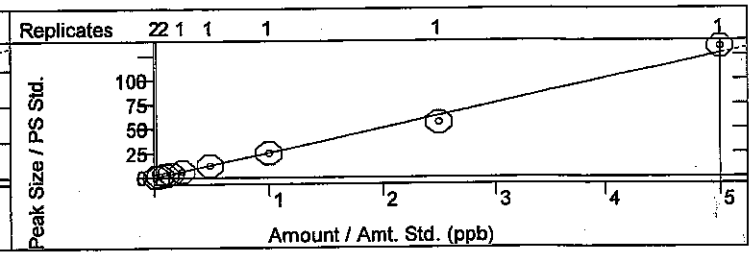
Styrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.538%, Coeff. Det.(r2): 0.995783
y = +5.5625x -0.0217



n-Propylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.116%, Coeff. Det.(r2): 0.994861
y = +34.5249x +0.1351



1,3,5-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.602%, Coeff. Det.(r2): 0.994491
y = +25.3464x +0.0513



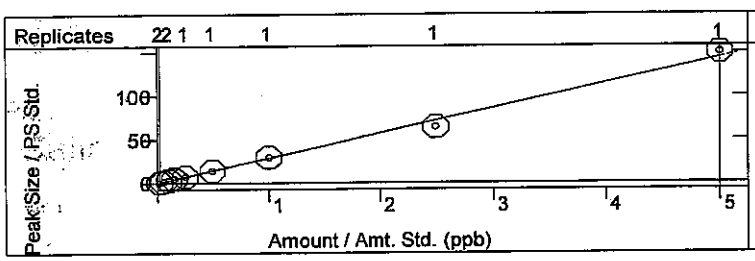
Calibration Curves Report

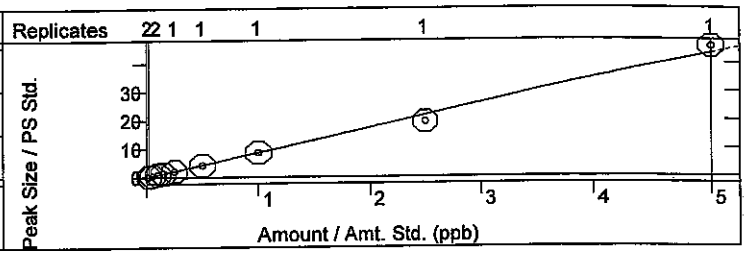
JH 8-20-14 cg 8-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

tert-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.232%, Coeff. Det.(r2): 0.995465
y = +28.7256x +0.1288

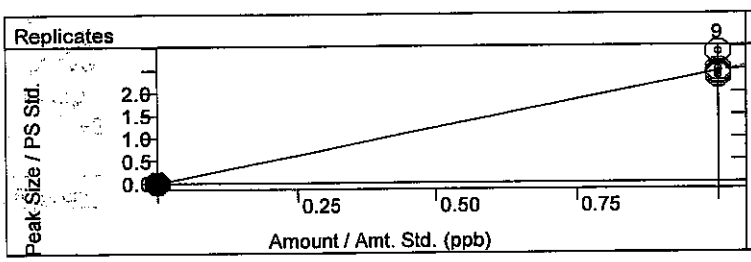
2-Chlorotoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.524%, Coeff. Det.(r2): 0.994813
y = +8.6909x +0.0229

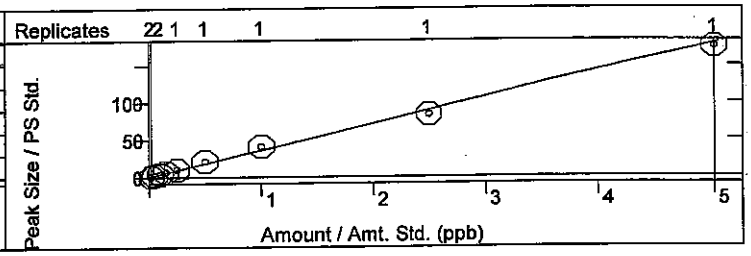




4-Bromofluorobenzene
Curve Fit: Linear, Origin: Force, Weight: 1/nX2
Resp. Fact. RSD: 6.816%, Coeff. Det.(r2): 0.960340
y = +2.4592x

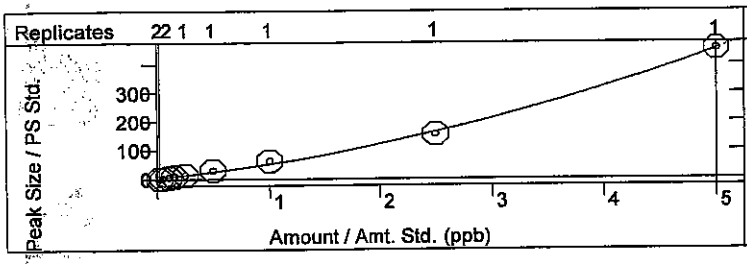
Bromobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.33%, Coeff. Det.(r2): 0.998055
y = +35.7413x +0.5386

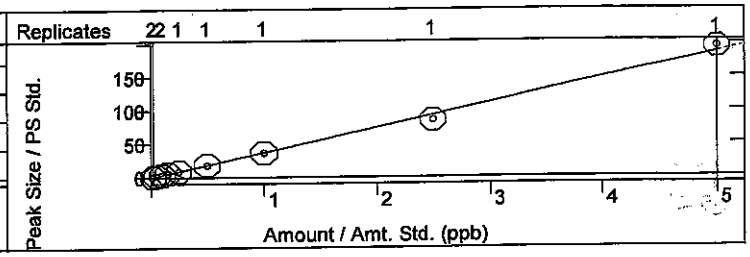




4-Chlorotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 14.24%, Coeff. Det.(r2): 0.998621
y = +10.1002x2 +38.9644x +4.2013

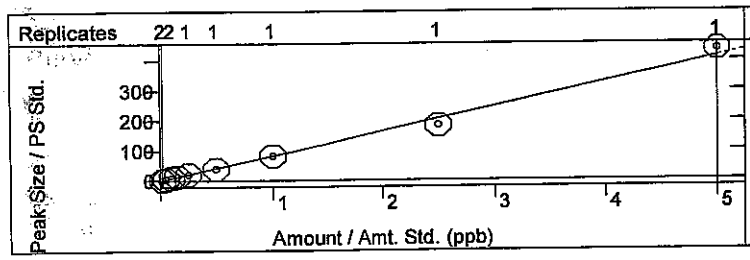
sec-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.803%, Coeff. Det.(r2): 0.996806
y = +37.2724x +0.0818

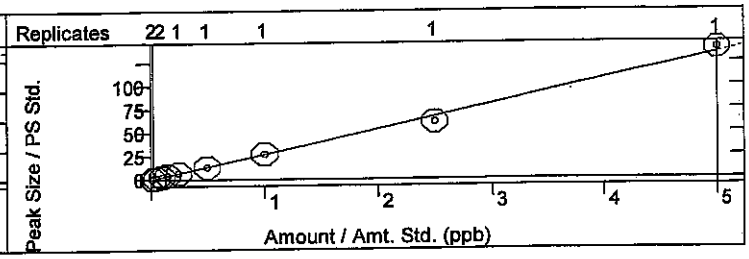




1,2,4-Trimethylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.457%, Coeff. Det.(r2): 0.994446
y = +82.4188x +0.1249

4-Isopropyltoluene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.023%, Coeff. Det.(r2): 0.996820
y = +26.8692x +0.1010



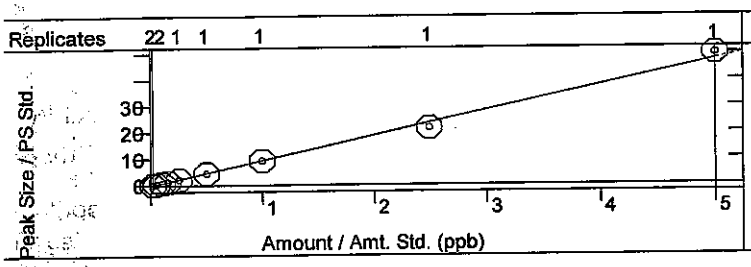


Calibration Curves Report

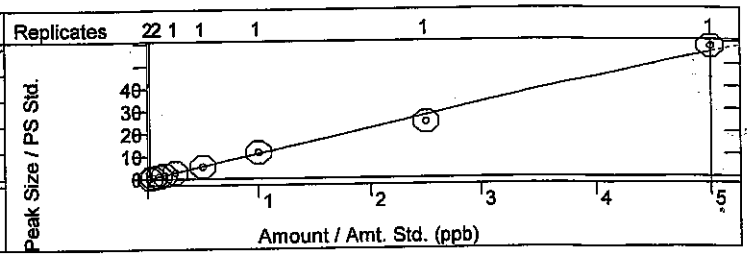
08-20-14

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

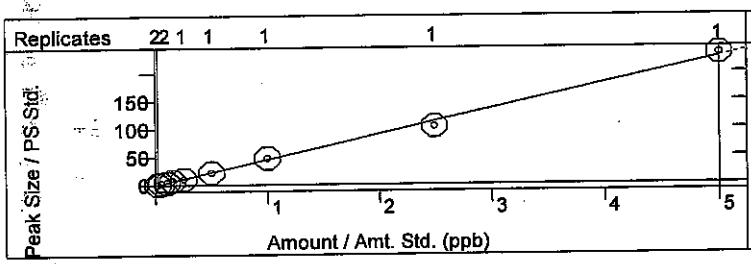
Bromoform
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.706%, Coeff. Det.(r2): 0.996565
y = +9.4955x -0.0586



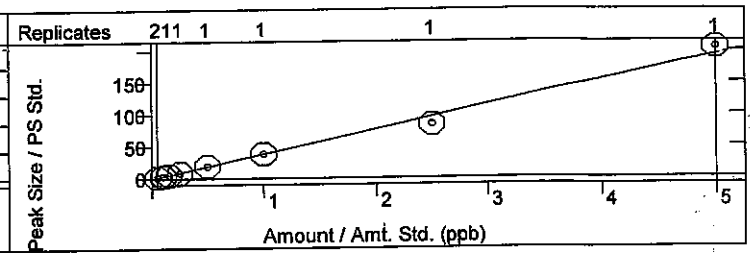
1,2,3-Trichloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 8.318%, Coeff. Det.(r2): 0.995074
y = +11.1317x -0.0177



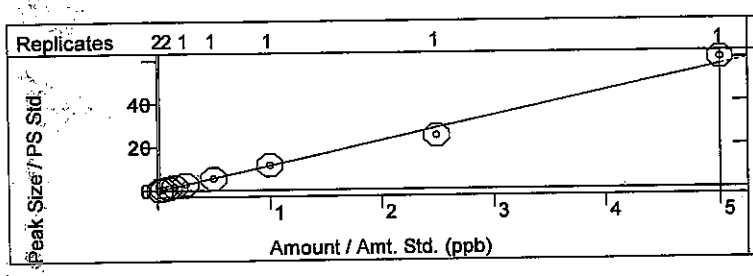
n-Butylbenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.832%, Coeff. Det.(r2): 0.997363
y = +45.5393x +0.0572



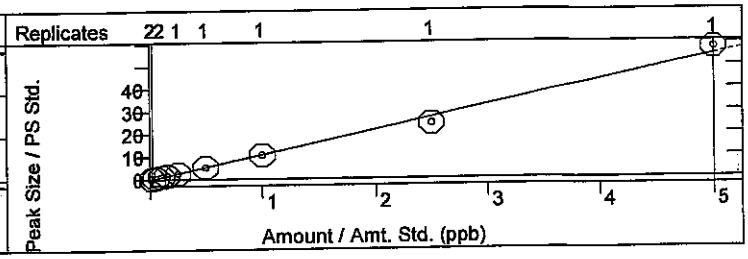
1,1,2,2-Tetrachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.775%, Coeff. Det.(r2): 0.992912
y = +38.6954x -0.3369



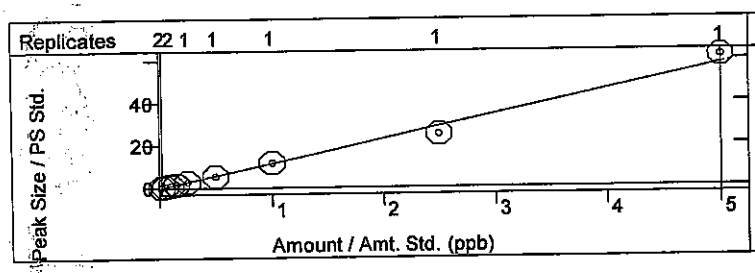
1,3-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.492%, Coeff. Det.(r2): 0.993319
y = +11.3713x +0.0056



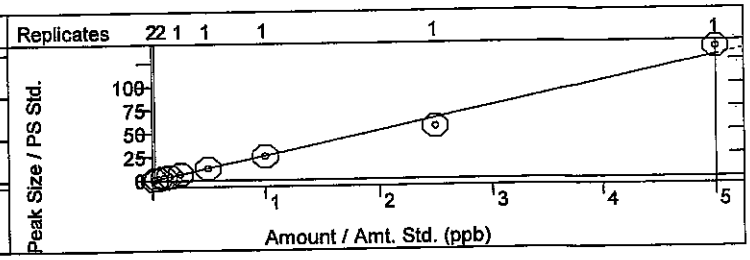
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.082%, Coeff. Det.(r2): 0.995059
y = +10.9507x -0.0165



1,2-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.591%, Coeff. Det.(r2): 0.992733
y = +11.5647x -0.0226



Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 12.17%, Coeff. Det.(r2): 0.991459
y = +25.9111x +0.2304

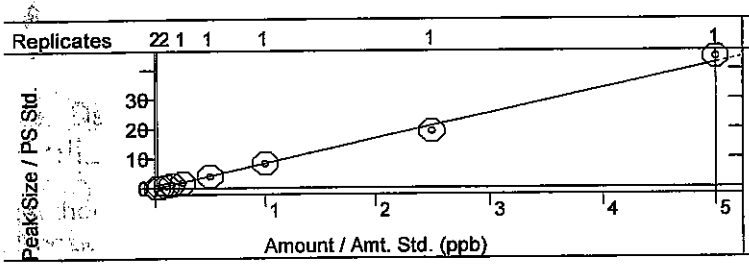


J 8-20-14
cpd 8-20-14

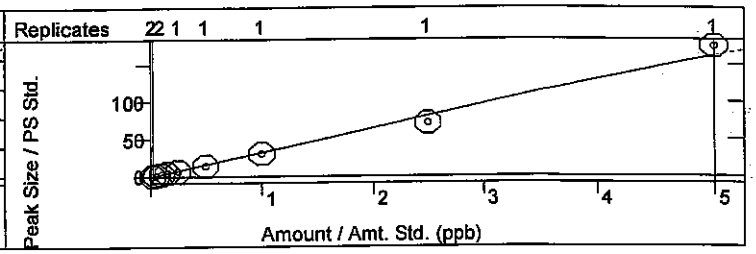
Calibration Curves Report

Method:	c:\agilentws\methods\081914m 8260-5035 low.mth		
Recalc Method:	...0-5035 low.mth	Last Calibration:	8/19/2014 9:03 PM
Sample List:	N/A	Method Modified:	8/20/2014 8:23 AM
Sequence:	N/A	Detector:	200-MS Mass Spec
MS Workstation		Workstation Version:	Version 7.0.1
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

1,2-Dibromo-3-chloropropane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.71%, Coeff. Det.(r2): 0.996359
y = +8.4446x -0.0692

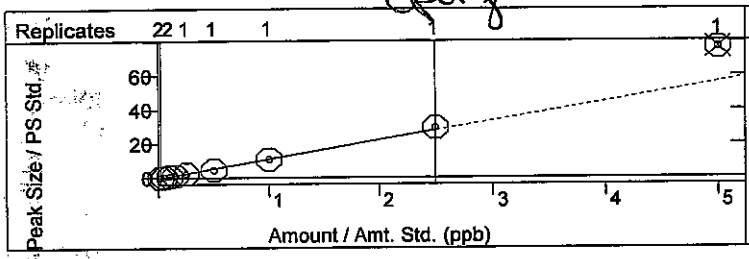


1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.40%, Coeff. Det.(r2): 0.992847
y = +32.5176x -0.3082



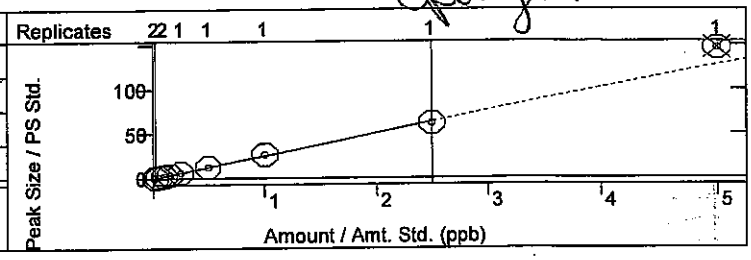
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 21.14%, Coeff. Det.(r2): 0.998477
y = +11.2739x -0.1973

cpd fit



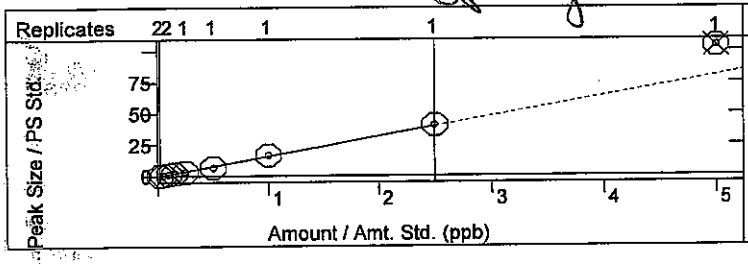
1,2,3-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 11.48%, Coeff. Det.(r2): 0.998831
y = +25.5311x -0.1203

cpd fit



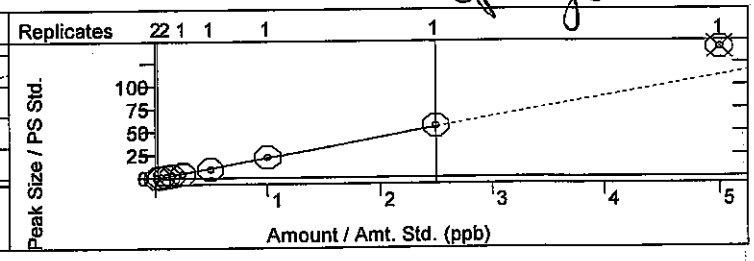
2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 15.48%, Coeff. Det.(r2): 0.998758
y = +16.0607x -0.2126

cpd fit

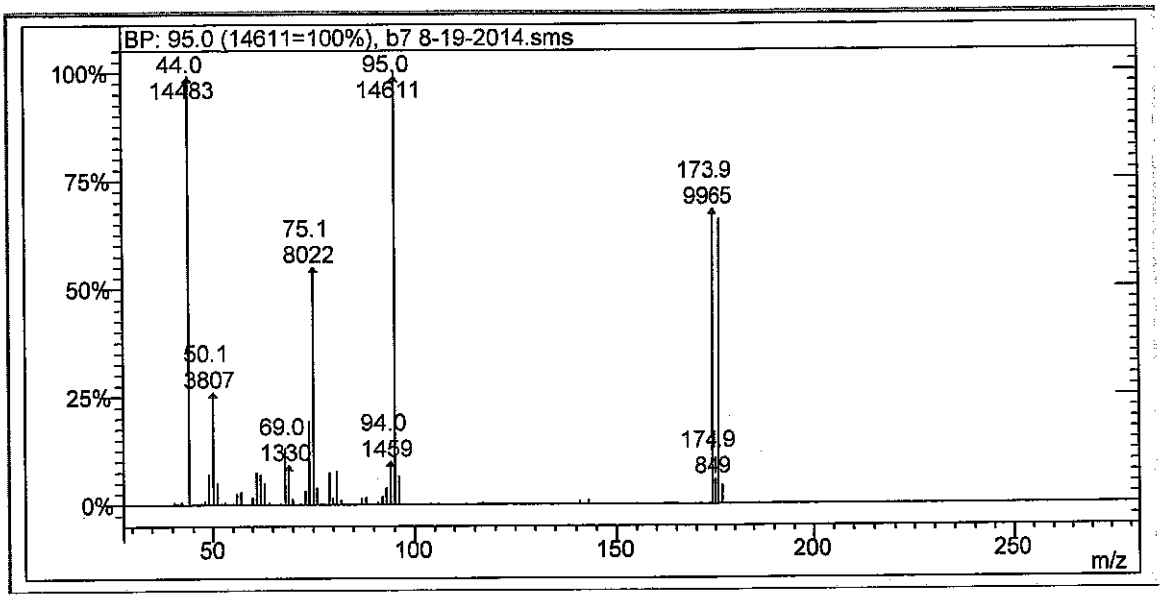


1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 16.44%, Coeff. Det.(r2): 0.999241
y = +22.1251x -0.3137

cpd fit



BFB 8260B Report



Lab File ID b7 8-19-2014.sms

Injection Date: 8/19/2014

Injection Time: 15:50

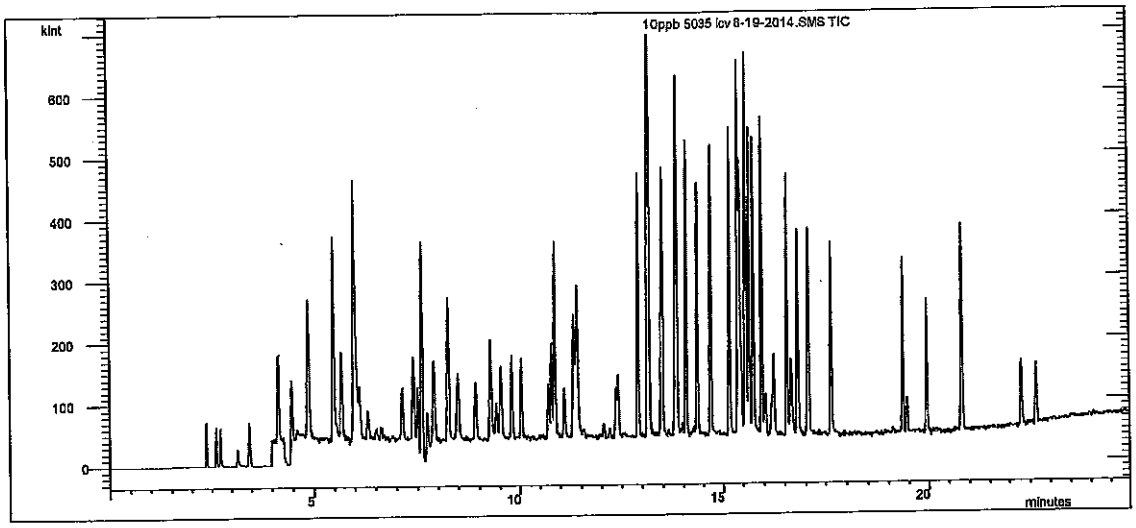
m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	26.06	PASS
75	30-60% of m/z 95	54.90	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.57	PASS
173	<2% of m/z 174	0.04	PASS
174	>50% of m/z 95	68.20	PASS
175	5-9% of m/z 174	8.52	PASS
176	>95% but <101% of m/z 174	96.66	PASS
177	5-9% of m/z 176	6.61	PASS

cg 8-20-14

8-20-14

8260B/624 Report

Sample Name:	10ppb 5035 icv	**Operator Name:**	Christina Gallegos	**Instrument ID:**	Mercury_1
Inst. Method:	C:\AgilentWS\Methods\081914m 8260-5035 Low.mth	**Inj. Notes:**	V-54-0465	**Acquisition Date:**	8/19/2014 10:04:34 PM
Calculation Date:	8/20/2014 8:36:35 AM				



Compound Name	RT	Scan	Qual Result	Area	Amount
Pentafluorobenzene	7.137	695	Identified	50248	20.000
Benzene-d5-, chloro-	13.447	1368	Identified	73822	20.000
1,4-Dichlorobenzene-d4	17.031	1746	Identified	28104	20.000
Dichlorodifluoromethane	2.358	184	Identified	57707	15.721
Chloromethane	2.602	210	Identified	236130	9.956
Vinyl chloride	2.715	222	Identified	295793	11.424
Chloroethane	3.148	269	Identified	54886	10.617
Bromomethane	3.153	269	Identified	55209	10.011
Trichlorofluoromethane	3.443	300	Identified	59731	8.447
1,1-Dichloroethene	4.154	377	Identified	152817	8.817
Acetone	4.334	396	Identified	123800	15.049
Carbon disulfide	4.474	411	Identified	252886	18.825
Iodomethane	4.607	425	Identified	189746	15.946
Methyl tert-butyl ether (MTBE)	4.869	452	Identified	344611	17.953
Isopropyl ether	5.474	517	Identified	1.645E6	20.554
tert-Butyl alcohol	5.677	539	Identified	53509	34.202
trans-1,2-DCE	5.675	538	Identified	306923	9.058
tert-Butyl ethyl ether	5.983	571	Identified	5.445E6	18.534
Methylene Chloride	6.036	577	Identified	229230	9.362
1,1-Dichloroethane	6.117	585	Identified	123033	8.886
Vinyl acetate	6.321	607	Failed	769799	20.869
2,2-Dichloropropane	6.525	629	Identified	52645	11.497
2-Butanone	6.637	641	Identified	297605	19.289
1,1,1-Trichloroethane	7.400	723	Identified	115272	9.209

Compound Name	RT	Scan	Qual Result	Area	Amount
1,1-Dichloropropene	7.515	735	Identified	149777	8.969
tert-Amyl methyl ether	7.605	745	Identified	1.505E6	21.284
Carbon Tetrachloride	7.733	758	Identified	46866	8.687
cis-1,2-DCE	7.893	775	Identified	63954	9.439
Benzene	8.249	813	Identified	228775	9.177
Chloroform	8.485	838	Identified	121172	9.134
Bromochloromethane	8.902	883	Identified	94826	11.368
Trichloroethene (TCE)	9.265	922	Identified	346383	9.046
Dibromofluoromethane	9.295	925	Identified	157786	21.594
1,2-Dichloroethane-d4	9.409	937	Identified	611899	20.364
1,2-Dichloroethane (EDC)	9.516	948	Identified	1.579E6	9.714
1,2-Dichloropropane	9.792	977	Identified	491278	9.630
4-Methyl-2-pentanone	10.035	1003	Identified	305899	18.975
Toluene-d8	10.784	1084	Identified	136771	19.631
Toluene	10.867	1092	Identified	334323	8.714
2-Chloroethyl vinyl ether	11.102	1117	Identified	408819	22.206
cis-1,3-dichloropropene	11.317	1140	Identified	470743	7.441
Bromodichloromethane	11.327	1141	Identified	102883	8.780
2-Hexanone	11.369	1146	Identified	787785	17.223
Tetrachloroethene (PCE)	11.402	1149	Identified	88974	8.622
Dibromomethane	11.417	1151	Identified	172464	10.658
1,3-Dichloropropane	12.358	1251	Identified	190362	8.716
trans-1,3-dichloropropene	12.410	1257	Identified	91585	8.343
Ethylbenzene	12.893	1309	Identified	388249	8.892
mp-Xylenes	13.141	1336	Identified	690489	17.927
1,1,2-Trichloroethane	13.140	1336	Identified	221726	10.123
Chlorobenzene	13.471	1371	Identified	174760	8.784
1,2-Dibromoethane (EDB)	13.456	1369	Identified	56214	8.941
o-Xylene	13.813	1407	Identified	379204	9.232
Dibromochloromethane	13.786	1404	Identified	52739	9.930
1,1,1,2-Tetrachloroethane	13.835	1409	Identified	89207	9.981
Isopropylbenzene	14.052	1432	Identified	339924	8.934
Styrene	14.324	1460	Identified	177943	8.745
n-Propylbenzene	14.675	1498	Identified	433175	8.850
1,3,5-Trimethylbenzene	15.155	1549	Identified	318240	8.894
tert-Butylbenzene	15.363	1571	Identified	385224	9.454
2-Chlorotoluene	15.405	1575	Failed	116223	9.464
4-Bromofluorobenzene	15.454	1580	Identified	70732	20.468
Bromobenzene	15.549	1590	Identified	533681	10.325
4-Chlorotoluene	15.565	1592	Identified	780162	10.628
sec-Butylbenzene	15.641	1600	Identified	460085	8.740
1,2,4-Trimethylbenzene	15.732	1609	Identified	1.035E6	8.903
4-Isopropyltoluene	15.928	1630	Identified	353577	9.289
Bromoform	16.015	1639	Identified	121782	9.250
1,2,3-Trichloropropane	16.220	1661	Identified	140793	9.033
n-Butylbenzene	16.542	1695	Identified	547450	8.530
1,1,2,2-Tetrachloroethane	16.642	1705	Identified	508496	9.526
1,3-Dichlorobenzene	16.794	1721	Identified	150311	9.397
1,4-Dichlorobenzene	17.055	1749	Identified	136290	8.887
1,2-Dichlorobenzene	17.639	1811	Identified	141712	8.759

Compound Name	RT	Scan	Qual Result	Area	Amount
Hexachlorobutadiene	19.348	1996	Identified	321040	8.639
1,2-Dibromo-3-chloropropane	19.445	2006	Identified	104810	8.996
1,2,4-Trichlorobenzene	19.936	2059	Identified	352701	7.908
Naphthalene	20.792	2150	Identified	120734	7.971
1,2,3-Trichlorobenzene	20.807	2152	Identified	309081	8.709
2-Methylnaphthalene	22.291	2311	Identified	207641	9.465
1-Methylnaphthalene	22.646	2348	Identified	262709	8.733

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Revision Log

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8/19/2014 10:29 PM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\081914m 8260-5035 Low.mth'
8/20/2014 8:36 AM: Processed as Analysis sample using method:
'C:\AgilentWS\Methods\081914m 8260-5035 Low.mth'

LVL 3

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408893**
Date Reported:

JAM 8/22/14

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Lab Order: 1408893

Lab ID: 1408893-001
Client Sample ID: FFOR-CF-0043

Collection Date: 08/18/14 1:28:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Acenaphthylene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Aniline	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Anthracene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Benz(a)anthracene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Benzo(a)pyrene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Benzo(b)fluoranthene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Benzo(g,h,i)perylene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Benzo(k)fluoranthene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Bis(2-chloroisopropyl)ether	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Bis(2-ethylhexyl)phthalate	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Carbazole	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Chloro-3-methylphenol	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Chloroaniline	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Chrysene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Di-n-butyl phthalate	0.086	0.56	J	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Di-n-octyl phthalate	ND	0.45		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Dibenz(a,h)anthracene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Dibenzofuran	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4-Dichlorophenol	ND	0.45		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4-Dimethylphenol	ND	0.34		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4,6-Dinitro-2-methylphenol	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4-Dinitrophenol	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,6-Dinitrotoluene	ND	0.56		mg/Kg-dry	1	14865	08/21/14 10:31:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Fluorene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Hexachlorobenzene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Hexachlorobutadiene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Hexachlorocyclopentadiene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Hexachloroethane	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Isophorone	ND	0.56	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Methylnaphthalene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Methylphenol	ND	0.56	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
3+4-Methylphenol	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
N-Nitrosodi-n-propylamine	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
N-Nitrosodimethylamine	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
N-Nitrosodiphenylamine	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Naphthalene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Nitroaniline	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
3-Nitroaniline	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Nitroaniline	ND	0.45	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Nitrobenzene	ND	0.56	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2-Nitrophenol	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Pentachlorophenol	ND	0.45	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Phenanthrene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Phenol	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Pyrene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Pyridine	ND	0.56	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4,5-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
2,4,6-Trichlorophenol	ND	0.23	mg/Kg-dry	1	14865	08/21/14 10:31:46 AM
Surr: 2-Fluorophenol	70.5	21-111	%REC	1	14865	08/21/14 10:31:46 AM
Surr: Phenol-d5	73.3	23.1-117	%REC	1	14865	08/21/14 10:31:46 AM
Surr: 2,4,6-Tribromophenol	71.6	22.7-88.9	%REC	1	14865	08/21/14 10:31:46 AM
Surr: Nitrobenzene-d5	75.9	24.5-126	%REC	1	14865	08/21/14 10:31:46 AM
Surr: 2-Fluorobiphenyl	80.6	21.2-129	%REC	1	14865	08/21/14 10:31:46 AM
Surr: 4-Terphenyl-d14	74.9	39.4-107	%REC	1	14865	08/21/14 10:31:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-002
Client Sample ID: FFOR-CF-0044
Collection Date: 08/18/14 1:28:00 PM
Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: JDC
Acenaphthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Aniline	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Bis(2-ethylhexyl)phthalate	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Carbazole	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Chloro-3-methylphenol	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Chloroaniline	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Chloronaphthalene	ND	0.28		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Chrysene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Di-n-butyl phthalate	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Di-n-octyl phthalate	ND	0.44		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
3,3'-Dichlorobenzidine	ND	0.28		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4-Dichlorophenol	ND	0.44		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4,6-Dinitro-2-methylphenol	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4-Dinitrophenol	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,6-Dinitrotoluene	ND	0.55		mg/Kg-dry	1	14865	08/21/14 11:01:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

EPA METHOD 8270C: SEMIVOLATILES

Analyst: **JDC**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Fluorene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Isophorone	ND	0.55	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Methylphenol	ND	0.55	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Naphthalene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Nitroaniline	ND	0.44	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Nitrobenzene	ND	0.55	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
4-Nitrophenol	ND	0.28	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Pentachlorophenol	ND	0.44	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Phenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Pyrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Pyridine	ND	0.55	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:01:00 AM
Surr: 2-Fluorophenol	69.7	21-111	%REC	1	14865	08/21/14 11:01:00 AM
Surr: Phenol-d5	65.1	23.1-117	%REC	1	14865	08/21/14 11:01:00 AM
Surr: 2,4,6-Tribromophenol	69.2	22.7-88.9	%REC	1	14865	08/21/14 11:01:00 AM
Surr: Nitrobenzene-d5	79.3	24.5-126	%REC	1	14865	08/21/14 11:01:00 AM
Surr: 2-Fluorobiphenyl	82.0	21.2-129	%REC	1	14865	08/21/14 11:01:00 AM
Surr: 4-Terphenyl-d14	74.7	39.4-107	%REC	1	14865	08/21/14 11:01:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC **Lab Order:** 1408893
Project: Kirtland AFB

Lab ID: 1408893-003 **Collection Date:** 08/18/14 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**
Acenaphthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Acenaphthylene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Aniline	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Benz(a)anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Benzo(a)pyrene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Benzo(b)fluoranthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Benzo(g,h,i)perylene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Benzo(k)fluoranthene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Bis(2-chloroisopropyl)ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Bis(2-ethylhexyl)phthalate	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Carbazole	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Chloro-3-methylphenol	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Chloroaniline	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Chloronaphthalene	ND	0.27		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Chrysene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Di-n-butyl phthalate	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Di-n-octyl phthalate	ND	0.43		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Dibenz(a,h)anthracene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Dibenzofuran	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
3,3'-Dichlorobenzidine	ND	0.27		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4-Dichlorophenol	ND	0.43		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4-Dimethylphenol	ND	0.33		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4,6-Dinitro-2-methylphenol	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4-Dinitrophenol	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,6-Dinitrotoluene	ND	0.54		mg/Kg-dry	1	14865	08/21/14 11:30:23 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Comment: DUE 08/21/2014

EPA METHOD 8270C: SEMIVOLATILES Analyst: **JDC**

Fluoranthene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Fluorene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Hexachlorobenzene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Hexachlorobutadiene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Hexachlorocyclopentadiene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Hexachloroethane	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Isophorone	ND	0.54	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Methylnaphthalene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Methylphenol	ND	0.54	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
3+4-Methylphenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
N-Nitrosodi-n-propylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
N-Nitrosodimethylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
N-Nitrosodiphenylamine	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Naphthalene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Nitroaniline	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
3-Nitroaniline	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Nitroaniline	ND	0.43	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Nitrobenzene	ND	0.54	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2-Nitrophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
4-Nitrophenol	ND	0.27	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Pentachlorophenol	ND	0.43	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Phenanthrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Phenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Pyrene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Pyridine	ND	0.54	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
1,2,4-Trichlorobenzene	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4,5-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
2,4,6-Trichlorophenol	ND	0.22	mg/Kg-dry	1	14865	08/21/14 11:30:23 AM
Surr: 2-Fluorophenol	77.1	21-111	%REC	1	14865	08/21/14 11:30:23 AM
Surr: Phenol-d5	75.8	23.1-117	%REC	1	14865	08/21/14 11:30:23 AM
Surr: 2,4,6-Tribromophenol	67.3	22.7-88.9	%REC	1	14865	08/21/14 11:30:23 AM
Surr: Nitrobenzene-d5	79.1	24.5-126	%REC	1	14865	08/21/14 11:30:23 AM
Surr: 2-Fluorobiphenyl	84.3	21.2-129	%REC	1	14865	08/21/14 11:30:23 AM
Surr: 4-Terphenyl-d14	71.0	39.4-107	%REC	1	14865	08/21/14 11:30:23 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

:ian Star Workstation - 8400 SampleList Mon Apr 28 10:41:20 2014

ıpleList: C:\VarianWS\042514crv.smp

ɜated: Fri Apr 25 09:05:43 2014
lified: Fri Apr 25 15:09:46 2014

****

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0578				
2	rb-8270	1	below	1	1.0
	Notes st110-0598				
3					
4	2.5ppm crv	1	below	2	1.0
	Notes st110-0588				
5	5ppm crv	1	below	3	1.0
	Notes st110-0589				
6	10ppm crv	1	below	4	1.0
	Notes st110-0590				
7	20ppm crv	1	below	5	1.0
	Notes st110-0591				
8	30ppm crv	1	below	6	1.0
	Notes st110-0592				
9	40ppm crv	1	below	7	1.0
	Notes st110-0593				
10	50ppm crv	1	below	8	1.0
	Notes st110-0594				
11	80ppm crv	1	below	9	1.0
	Notes st110-0595				
12	100ppm crv	1	below	10	1.0
	Notes st110-0596				
13	120ppm crv	1	below	11	1.0
	Notes st110-0597				
14	50ppm icv	1	below	12	1.0
	Notes st110-0599				
15					

dam
4/28/14

TK
4-28-14

rectory for Data Files: C:\VarianWS\data

Data File Names: %s

:eate and update a new RecalcList: c:\varianws\042514crv.rcl.

8270C
Calibration Summary

Instrument: ELMO **Date:** 4/25/14

Calibration Name: 8270 042514.mth

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
N-nitrosodimethylamine	☑	☐	☐	☑	
Pyridine	☑	☐	☐	☑	
2-Fluorophenol	N/A	N/A	☐	☑	
Phenol-d5	N/A	N/A	☐	☑	
Phenol	☑	☐	☐	☑	
Aniline	☑	☐	☐	☑	
Bis(2-chloroethyl)ether	☑	☐	☐	☑	
2-Chlorophenol	☑	☐	☐	☑	
1,3-Dichlorobenzene	☑	☐	☐	☑	
1,4-Dichlorobenzene	☑	☐	☐	☑	
Benzyl alcohol	☑	☐	☐	☑	
1,2-Dichlorobenzene	☑	☐	☐	☑	
2-Methylphenol	☑	☐	☐	☑	
Bis(2-chloroisopropyl)ether	☑	☐	☐	☑	
3+4-Methylphenol	☑	☐	☐	☑	
N-Nitrosodi-n-propylamine	☑	☐	☐	☑	
Hexachloroethane	☑	☐	☐	☑	
Nitrobenzene-d5	N/A	N/A	☐	☑	
Nitrobenzene	☑	☐	☐	☑	
Isophorone	☑	☐	☐	☑	
2-Nitrophenol	☑	☐	☐	☑	
2,4-Dimethylphenol	☑	☐	☐	☑	
Benzoic acid	☑	☐	☐	☑	
Bis(2-chloroethoxy)methane	☑	☐	☐	☑	
2,4-Dichlorophenol	☑	☐	☐	☑	
1,2,4-Trichlorobenzene	☑	☐	☐	☑	
Naphthalene	☑	☐	☐	☑	
4-Chloroaniline	☑	☐	☐	☑	
Hexachlorobutadiene	☑	☐	☐	☑	
4-Chloro-3-methylphenol	☑	☐	☐	☑	
2-Methylnaphthalene	☑	☐	☐	☑	
1-Methylnaphthalene	☑	☐	☐	☑	
Hexachlorocyclopentadiene	☑	☐	☐	☑	
2,4,6-Trichlorophenol	☑	☐	☐	☑	
2,4,5-Trichlorophenol	☑	☐	☐	☑	
2-Fluorobiphenyl	N/A	N/A	☐	☑	
2-Chloronaphthalene	☑	☐	☐	☑	
2-Nitroaniline	☑	☐	☐	☑	
Dimethyl phthalate	☑	☐	☐	☑	
2,6-Dinitrotoluene	☑	☐	☐	☑	
Acenaphthylene	☑	☐	☐	☑	
3-Nitroaniline	☑	☐	☐	☑	
Acenaphthene	☑	☐	☐	☑	
2,4-Dinitrophenol	☑	☐	☐	☑	
4-Nitrophenol	☑	☐	☐	☑	
Dibenzofuran	☑	☐	☐	☑	

This Document Has Been Approved For Use at HEAL on 8/26/2012 by: ___ and ___.

Analyte	ICV Pass	ICV Fail	Calibration Curve Points Removed Yes	Calibration Curve Points Removed No	Notes
2,4-Dinitrotoluene	☒	☐	☐	☒	
Diethyl phthalate	☒	☐	☐	☒	
4-Chlorophenyl phenyl ether	☒	☐	☐	☒	
Fluorene	☒	☐	☐	☒	
4-Nitroaniline	☒	☐	☐	☒	
4,6-Dinitro-2-methylphenol	☒	☐	☐	☒	
N-Nitrosodiphenylamine	☒	☐	☐	☒	
Azobenzene	☒	☐	☐	☒	
2,4,6-Tribromophenol	N/A	N/A	☐	☒	
4-Bromophenyl phenyl ether	☒	☐	☐	☒	
Hexachlorobenzene	☒	☐	☐	☒	
Pentachlorophenol	☒	☐	☐	☒	
Anthracene	☒	☐	☐	☒	
Carbazole	☒	☐	☐	☒	
Di-n-butyl phthalate	☒	☐	☐	☒	
Fluoranthene	☒	☐	☐	☒	
Benzidine	☒	☐	☐	☒	
Pyrene	☒	☐	☐	☒	
4-Terphenyl-d14	N/A	N/A	☐	☒	
Butyl benzyl phthalate	☒	☐	☐	☒	
3,3'-Dichlorobenzidine	☒	☐	☐	☒	
Benz[a]anthracene	☒	☐	☐	☒	
Bis(2-ethylhexyl)phthalate	☒	☐	☐	☒	
Chrysene	☒	☐	☐	☒	
Di-n-octyl phthalate	☒	☐	☐	☒	
Benzo(b)fluoranthene	☒	☐	☐	☒	
Benzo[k]fluoranthene	☒	☐	☐	☒	
Benzo[a]pyrene	☒	☐	☐	☒	
Indeno[1,2,3-cd]pyrene	☒	☐	☐	☒	
Dibenz[a,h]anthracene	☒	☐	☐	☒	
Benzo[g,h,i]perylene	☒	☐	☐	☒	

Analyst: [signature] 4/28/14

QA: [signature] 4.28.14

Additional Comments: _____

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Tune Criteria 525

JDM 4/28/14

Lab Name: Hall Environmental Contract:

Lab Code: Case No: SAS No: SDG No:

Lab File ID: dftpp tune.sms Injection Date: 4/25/2014

Instrument ID: ELMO Injection Time: 9:09

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	% OF	m/z
51	10-80% of base peak	19.8		
68	<2% of m/z 69	0.1	(0.3)	69
69	Present	22.3		
70	<2% of m/z 69	0.0		
127	10-80% of base peak	21.8		
197	<2% of m/z 198	0.0		
198	Base peak	100.0		
199	5-9% of m/z 198	5.8		
275	10-60% of base peak	34.5		
365	>1% of base peak	6.8		
441	Present and <m/z 443	3.9	(41.6)	443
442	>50% of m/z 198	53.5		
443	15-24% of m/z 442	9.4	(17.5)	442

JV 4-28-14

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
1 rb-8270	rb-8270	h:\elmo\data\2014\april 2014\042514crv\rb-8270.SMS	4/25/2014 9:23
22.5ppm crv	2.5ppm crv	h:\elmo\data\2014\april 2014\042514crv\2.5ppm crv.SMS	4/25/2014 9:52
35ppm crv	5ppm crv	h:\elmo\data\2014\april 2014\042514crv\5ppm crv .SMS	4/25/2014 10:21
410ppm crv	10ppm crv	h:\elmo\data\2014\april 2014\042514crv\10ppm crv.SMS	4/25/2014 10:50
520ppm crv	20ppm crv	h:\elmo\data\2014\april 2014\042514crv\20ppm crv.SMS	4/25/2014 11:19
630ppm crv	30ppm crv	h:\elmo\data\2014\april 2014\042514crv\30ppm crv.SMS	4/25/2014 11:48
740ppm crv	40ppm crv	h:\elmo\data\2014\april 2014\042514crv\40ppm crv.SMS	4/25/2014 12:17
850ppm crv	50ppm crv	h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS	4/25/2014 12:46
980ppm crv	80ppm crv	h:\elmo\data\2014\april 2014\042514crv\80ppm crv.SMS	4/25/2014 13:15
10100ppm crv	100ppm crv	h:\elmo\data\2014\april 2014\042514crv\100ppm crv.SMS	4/25/2014 13:44
11 120ppm crv	120ppm crv	h:\elmo\data\2014\april 2014\042514crv\120ppm crv.SMS	4/25/2014 14:14

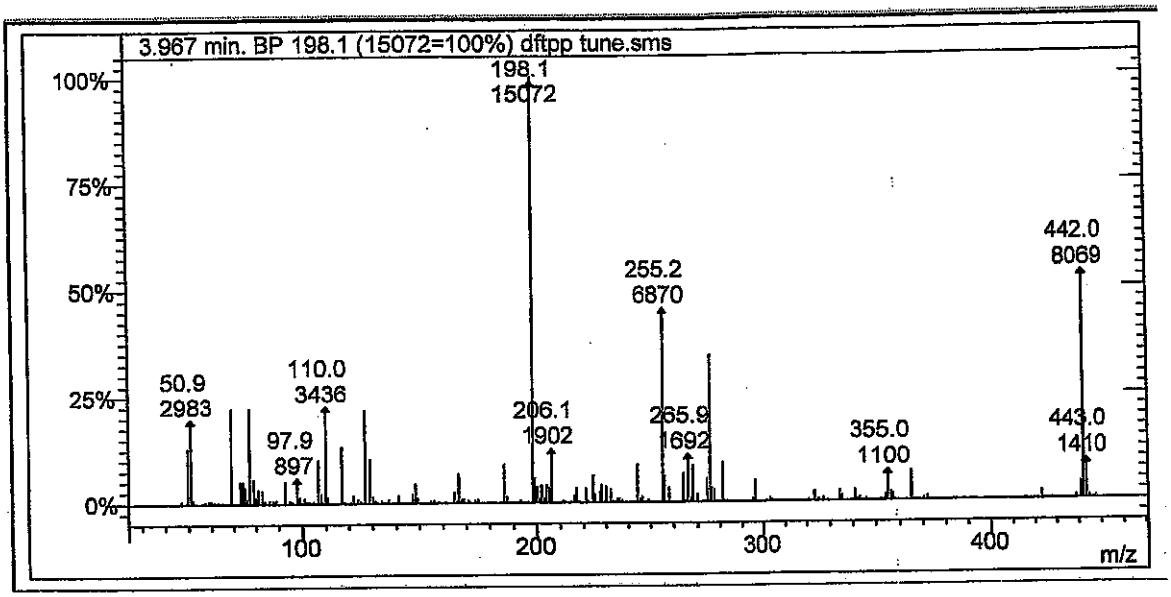
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE TIME ANALYZED
12 50ppm icv	50ppm icv	h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS	4/25/2014 14:43

✓ dam 4/28/14

JC 4-28-14

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 4/25/2014

Injection Time: 9:09

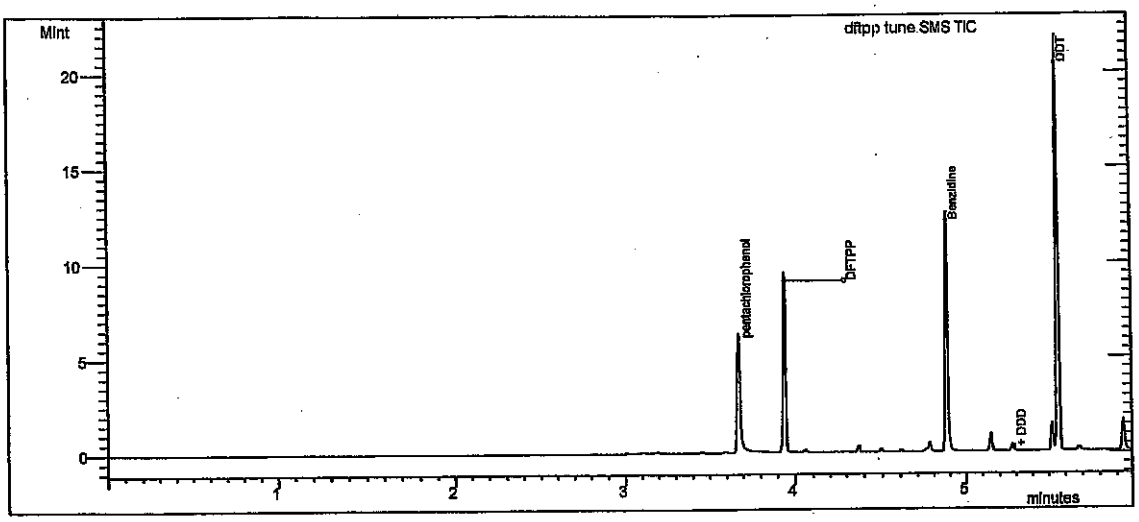
Adam 4/28/14

m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	19.79	PASS
68	<2% of m/z 69	0.27	PASS
69	Present	22.31	PASS
70	<2% of m/z 69	0.00	PASS
127	10-80% of base peak	21.82	PASS
197	<2% of m/z 198	0.02	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	5.75	PASS
275	10-60% of base peak	34.49	PASS
365	>1% of base peak	6.81	PASS
441	Present and <m/z 443	41.63	PASS
442	>50% of m/z 198	53.54	PASS
443	15-24% of m/z 442	17.47	PASS

JV 4-28-14

Degradation Report

Acquisition Date:	4/25/2014 9:09:40 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	David Melius
Inj. Notes:	sv110-0578	Instrument ID:	Elmo



Test

Compound Name	RT	Area	#
DDT	5.560	5.548E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.288	26220	5
DDE	5.007	2142	6

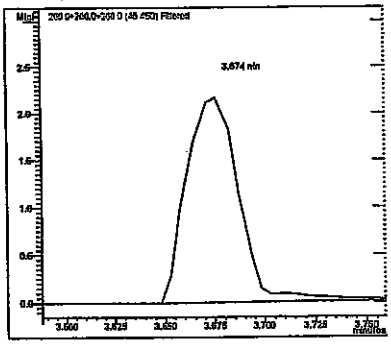
% Degradation of DDT : = .509 ✓ dam 4/28/14

TC 4-28-14

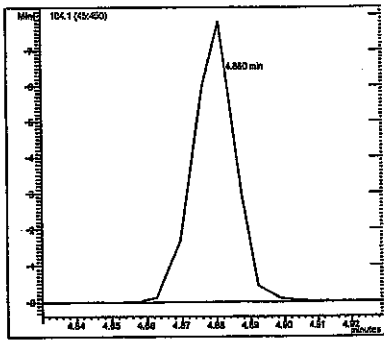
Tailing and Gaussian Factor Report

Acquisition Date: 4/25/2014 9:09:40 AM
Data File Name: C:\VarianWS\data\dftpp tune.SMS
Inst. Method: C:\VarianWS\Methods\dftpp.mth
Inj. Notes: sv110-0578

pentachlorophenol
RT = 3.674 Area = 3.935E6



Benzidine
RT = 4.88 Area = 6.645E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.674	1.744	0.924
Benzidine	4.880	0.716	0.933

dm 4/28/14

#	Compound Name	RT	Area
1	pentachlorophenol	3.674	3.935E6
3	Benzidine	4.880	6.645E6

TV 4.28.14

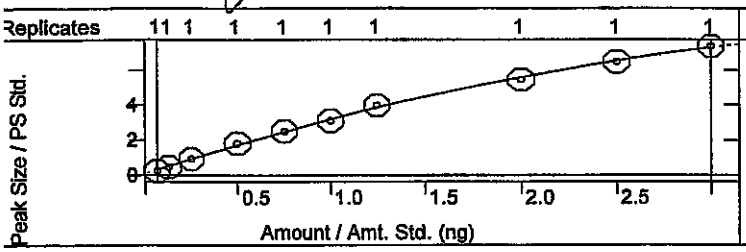
Calibration Curves Report

√ dan 4/28/14

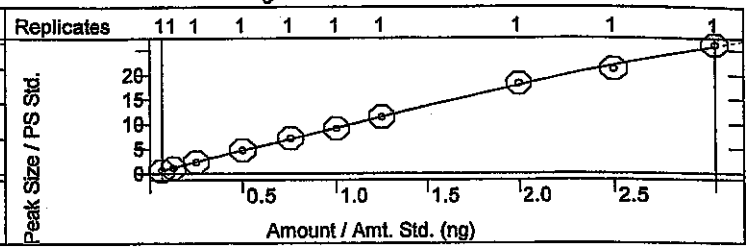
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

D 4.28.14

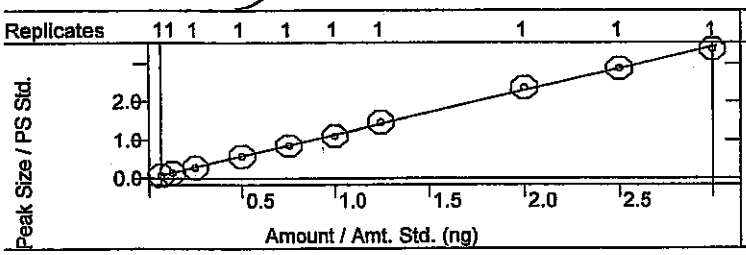
N-nitrosodimethylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 15.81%, Coeff. Det.(r2): 0.998964
y = -0.3412x2 +3.4265x +0.0884



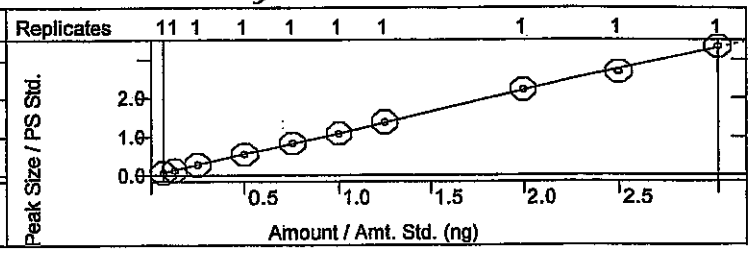
Pyridine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.485%, Coeff. Det.(r2): 0.998896
y = -0.3016x2 +9.5153x +0.0022



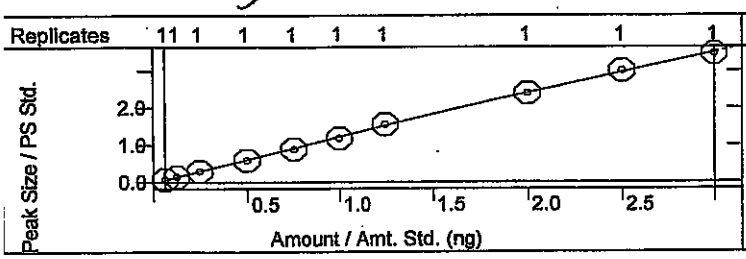
2-Fluorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.250%, Coeff. Det.(r2): 0.999053
y = +1.1454x +0.0021



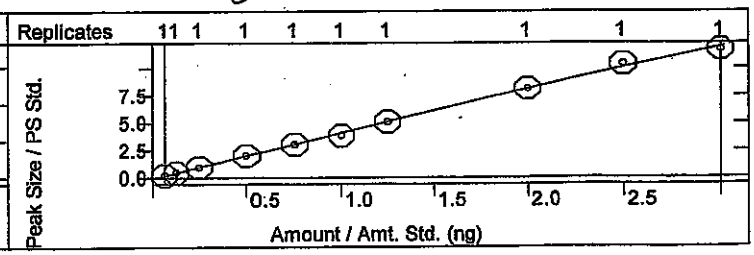
Phenol-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.419%, Coeff. Det.(r2): 0.999338
y = +0.0048x2 +1.0889x -0.0040



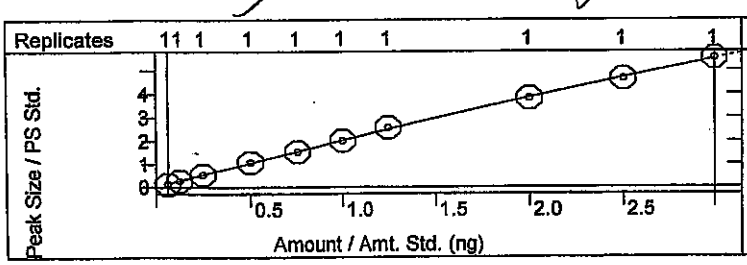
Phenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.451%, Coeff. Det.(r2): 0.999521
y = -0.0409x2 +1.2967x -0.0251



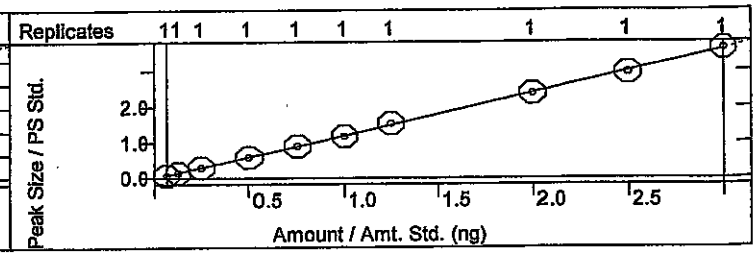
Aniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.357%, Coeff. Det.(r2): 0.998524
y = -0.0851x2 +4.2758x -0.0979



Bis(2-chloroethyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.228%, Coeff. Det.(r2): 0.999648
y = -0.0958x2 +2.1070x +0.0242

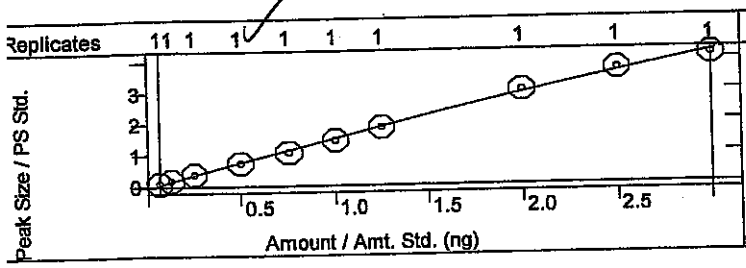


2-Chlorophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 1.747%, Coeff. Det.(r2): 0.999670
y = +1.1980x -0.0021

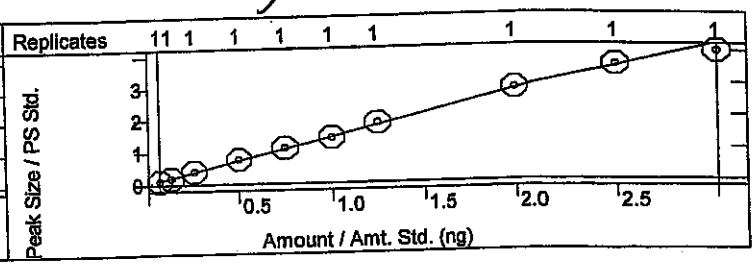


Method:	c:\varianws\methods\8270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Recalc Method:	...270 042514.mth	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation (Upgrade)		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

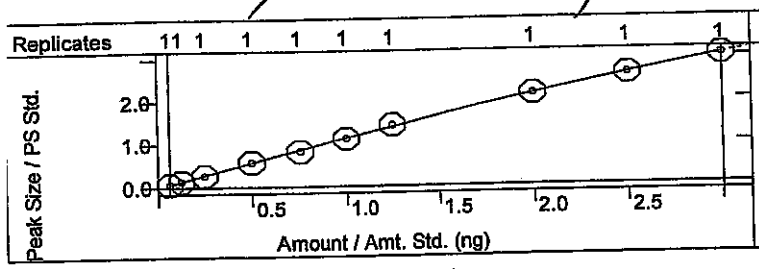
1,3-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.992%, Coeff. Det.(r2): 0.998073
y = -0.0693x2 +1.6278x -0.0442



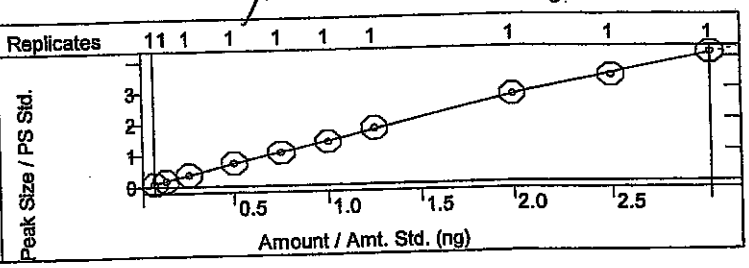
1,4-Dichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.519%, Coeff. Det.(r2): 0.996888
y = +1.4071x +0.0248



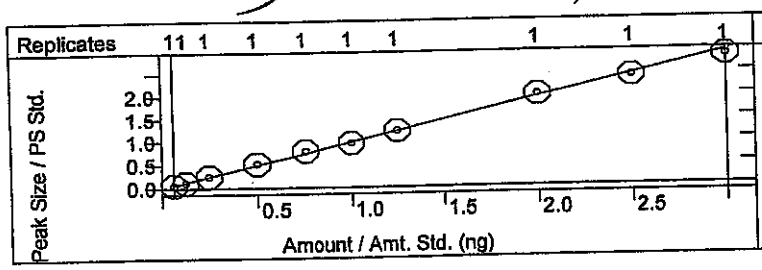
Benzyl alcohol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.314%, Coeff. Det.(r2): 0.999673
y = -0.0661x2 +1.2165x -0.0165



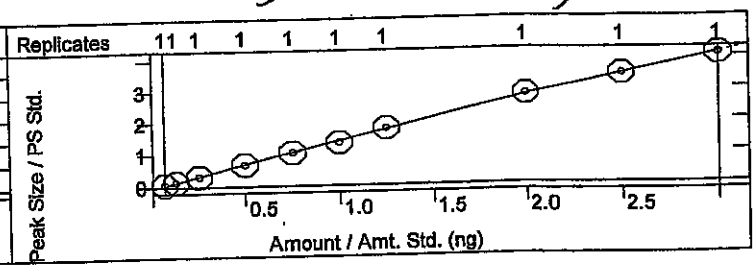
1,2-Dichlorobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.357%, Coeff. Det.(r2): 0.999651
y = -0.0167x2 +1.4155x +0.0153



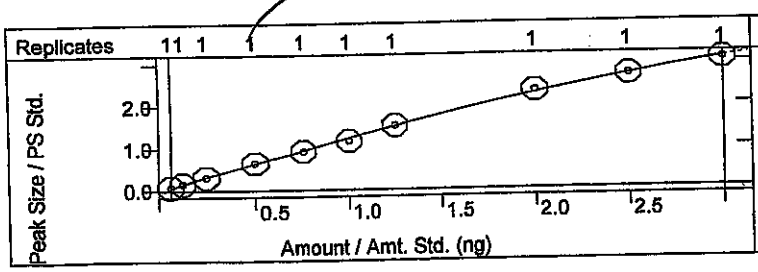
2-Methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.681%, Coeff. Det.(r2): 0.998673
y = +0.9716x +0.0052



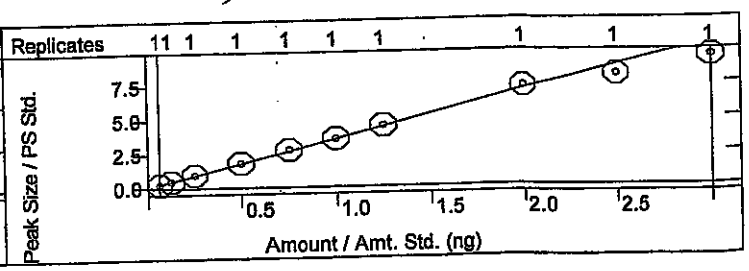
Bis(2-chloroisopropyl)ether
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.406%, Coeff. Det.(r2): 0.999627
y = -0.0331x2 +1.4848x -0.0466



3+4-Methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.638%, Coeff. Det.(r2): 0.999131
y = -0.1133x2 +1.3766x -0.0272



N-Nitrosodi-n-propylamine
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.992951
y = +3.5083x +0.0381



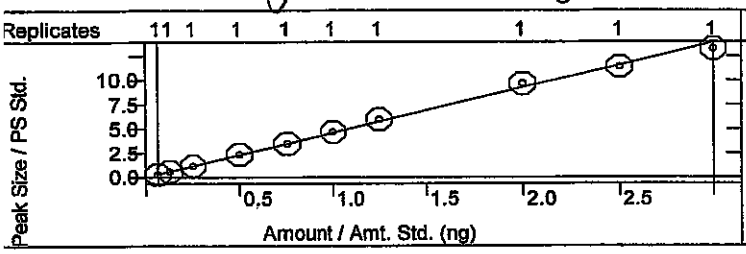
Calibration Curves Report

/dam 4/28/14

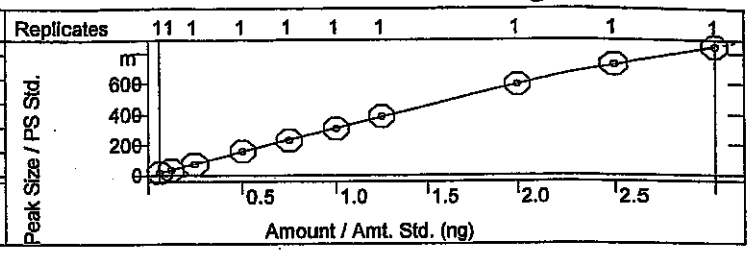
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

✓ 4.28.14

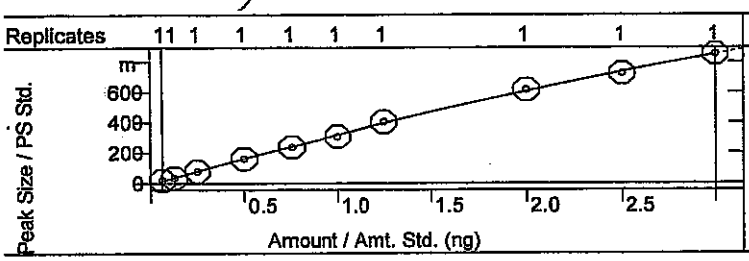
Hexachloroethane
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.701%, Coeff. Det.(r2): 0.997292
y = +4.6167x +0.0205



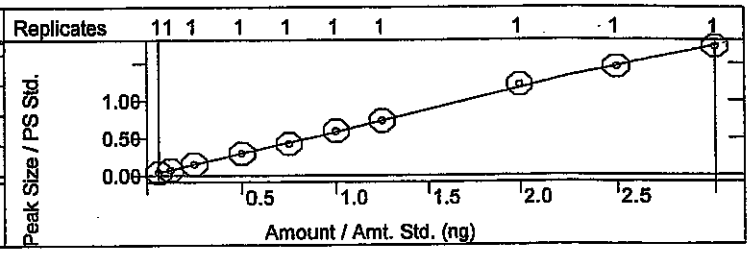
Nitrobenzene-d5
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.721%, Coeff. Det.(r2): 0.999882
y = -0.0163x2 +0.3317x -0.0045



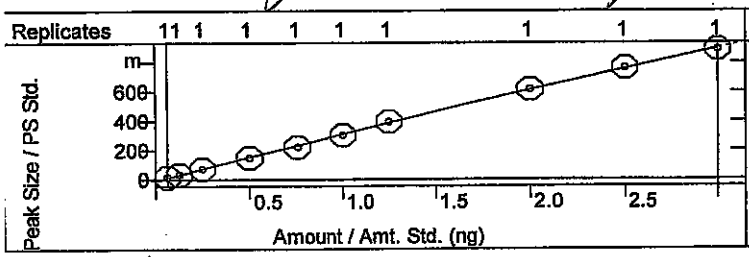
Nitrobenzene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.350%, Coeff. Det.(r2): 0.999424
y = -0.0200x2 +0.3461x -0.0058



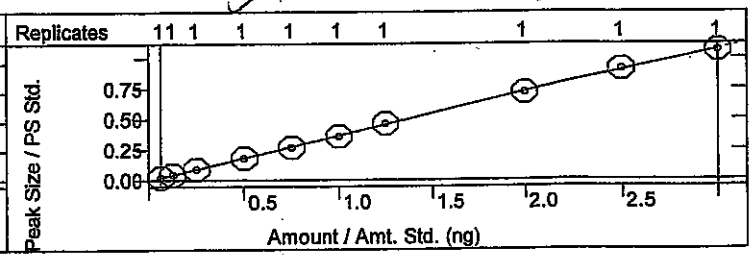
Isophorone
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.564%, Coeff. Det.(r2): 0.999170
y = +0.5832x +0.0030



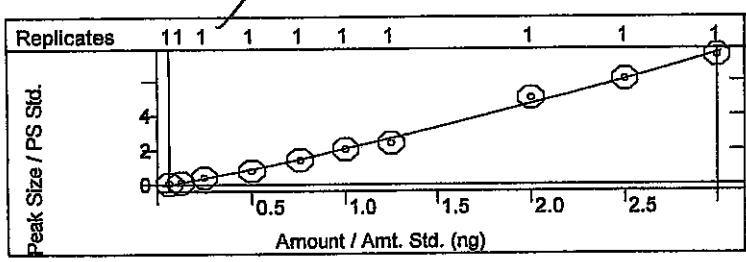
2-Nitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.418%, Coeff. Det.(r2): 0.999554
y = -0.0089x2 +0.3282x -0.0083



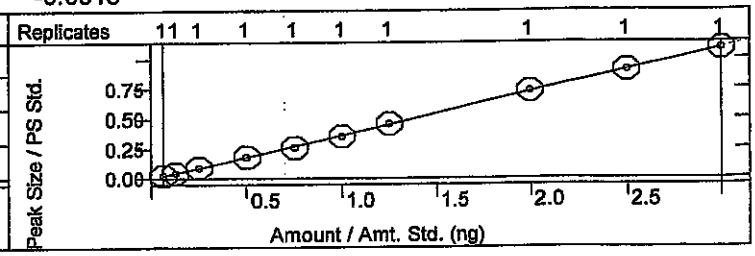
2,4-Dimethylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.077%, Coeff. Det.(r2): 0.999721
y = -0.0052x2 +0.3741x -0.0036



Benzoic acid
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 28.84%, Coeff. Det.(r2): 0.996224
y = +0.1762x2 +2.0528x -0.1534



Bis(2-chloroethoxy)methane
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.400%, Coeff. Det.(r2): 0.999764
y = -2.1922e-4x2 +0.3635x
-0.0016



Calibration Curves Report

J dam 4/28/14

Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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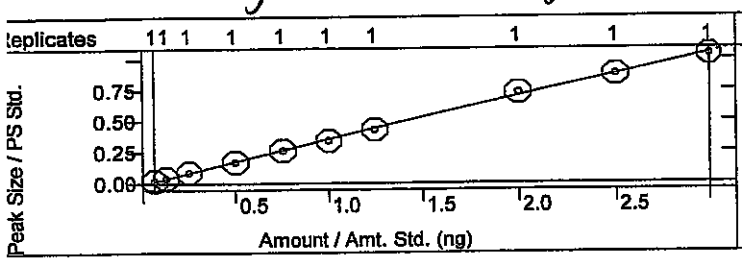
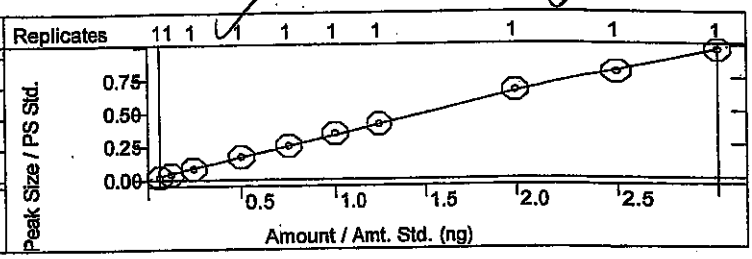
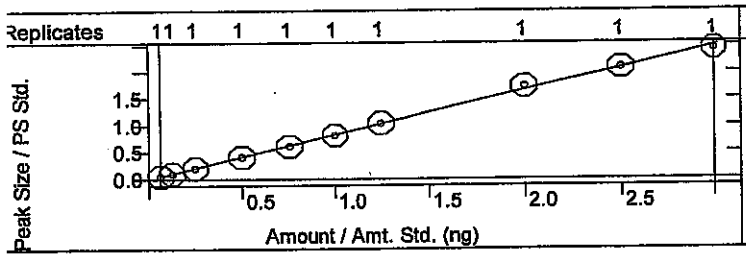
2,4-Dichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.354%, Coeff. Det.(r2): 0.998999
y = -0.0055x2 +0.3668x -0.0082



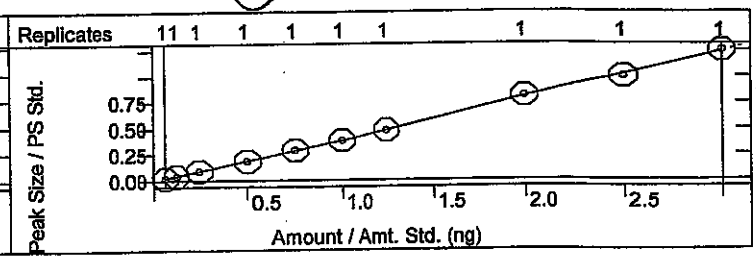
1,2,4-Trichlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.175%, Coeff. Det.(r2): 0.999454
y = +0.3211x +0.0072



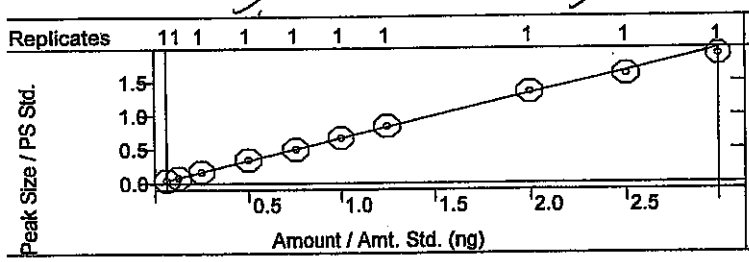
Naphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.213%, Coeff. Det.(r2): 0.998730
y = +0.8263x +0.0048



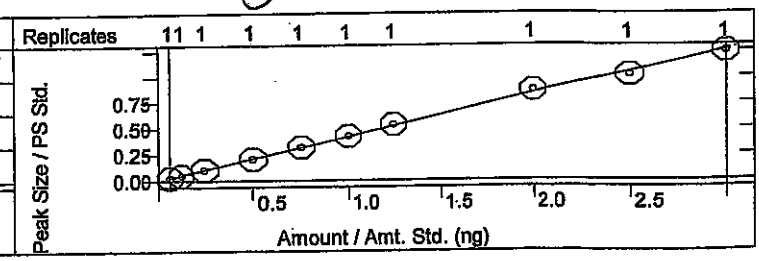
4-Chloroaniline
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.874%, Coeff. Det.(r2): 0.999629
y = +0.0152x2 +0.3700x -0.0022



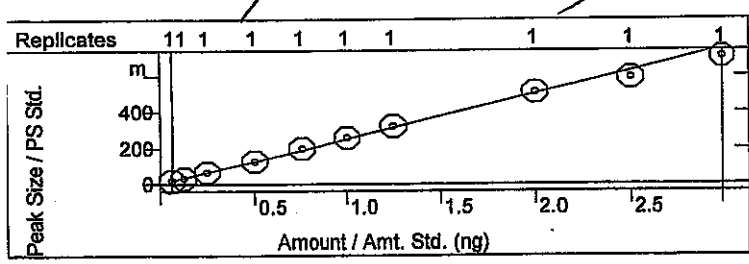
Hexachlorobutadiene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.064%, Coeff. Det.(r2): 0.998744
y = +0.6599x +0.0061



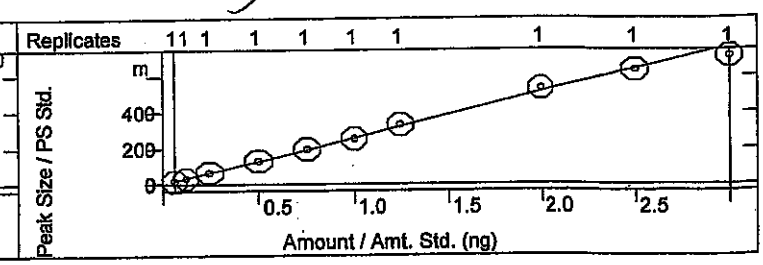
4-Chloro-3-methylphenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 3.340%, Coeff. Det.(r2): 0.998837
y = +0.4189x +2.5193e-4



2-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 5.300%, Coeff. Det.(r2): 0.996653
y = +0.2503x +0.0018



1-Methylnaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X2
Resp. Fact. RSD: 4.811%, Coeff. Det.(r2): 0.995624
y = +0.2549x +0.0018



✓ dam 4/28/14

Calibration Curves Report

Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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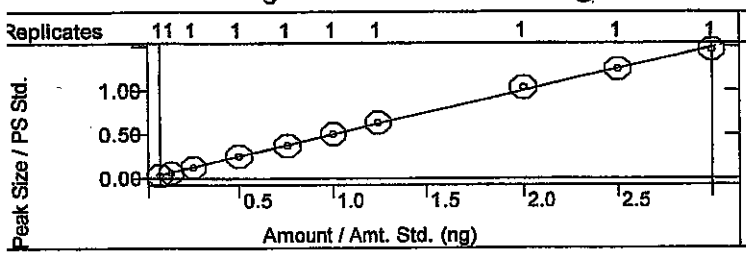
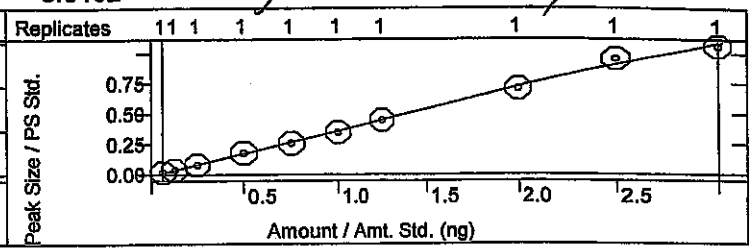
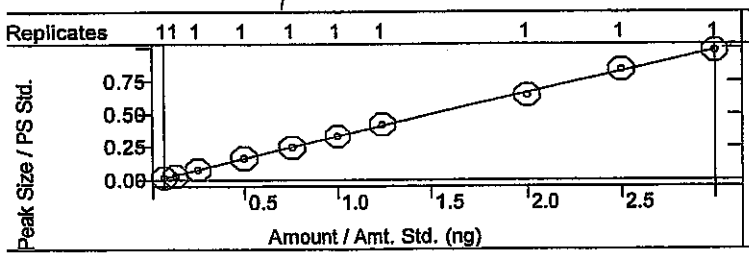
Hexachlorocyclopentadiene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.570%, Coeff. Det.(r2): 0.999075
y = +0.4936x +0.0086



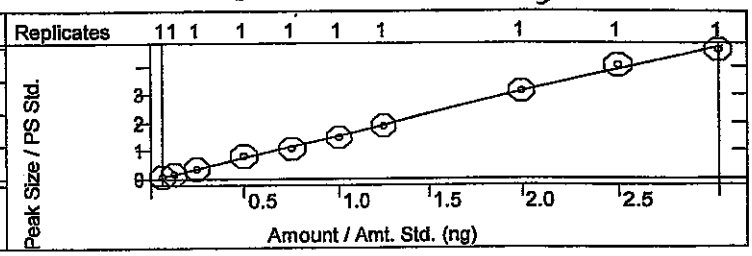
2,4,6-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.875%, Coeff. Det.(r2): 0.997202
y = -6.4982e-4x2 +0.3678x -0.0102



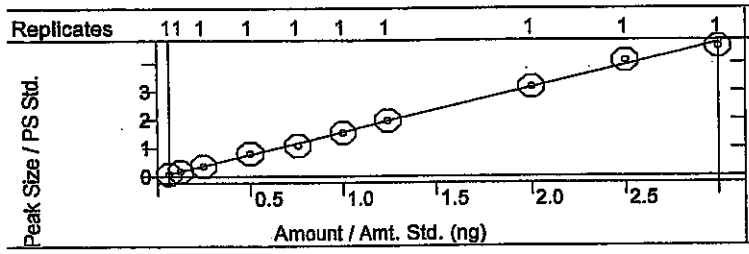
2,4,5-Trichlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.240%, Coeff. Det.(r2): 0.999372
y = -0.0042x2 +0.3430x -0.0068



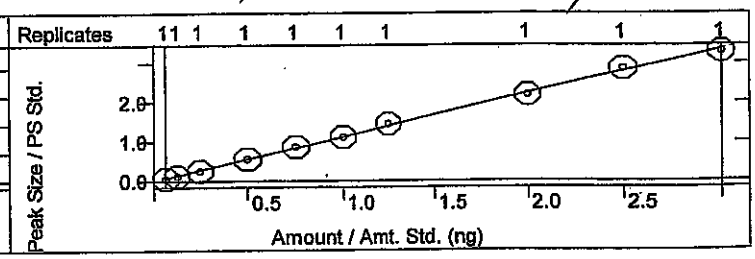
2-Fluorobiphenyl
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.959%, Coeff. Det.(r2): 0.998204
y = +0.0052x2 +1.5540x -0.0324



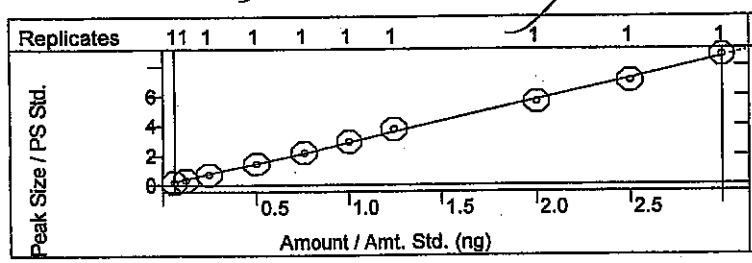
2-Chloronaphthalene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.946%, Coeff. Det.(r2): 0.997681
y = +1.5769x -0.0150



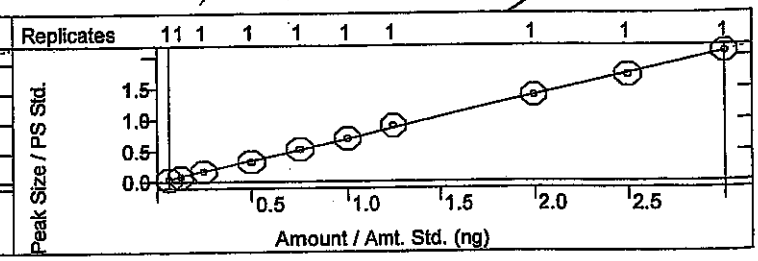
2-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.248%, Coeff. Det.(r2): 0.998718
y = +1.1150x +3.3477e-4



Dimethyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 3.957%, Coeff. Det.(r2): 0.998795
y = +2.8638x +0.0179



2,6-Dinitrotoluene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.480%, Coeff. Det.(r2): 0.999449
y = +0.6919x -0.0022



Calibration Curves Report

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Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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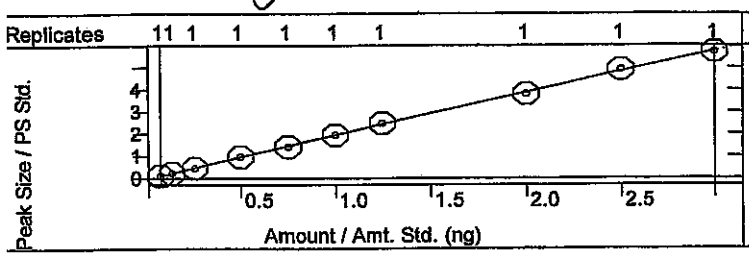
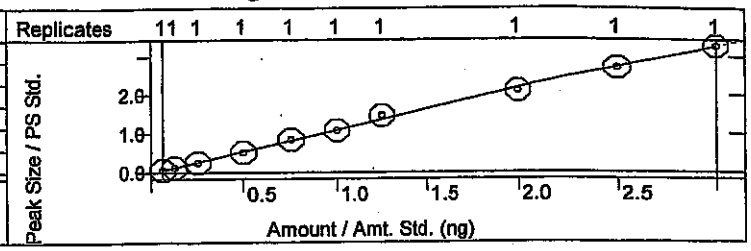
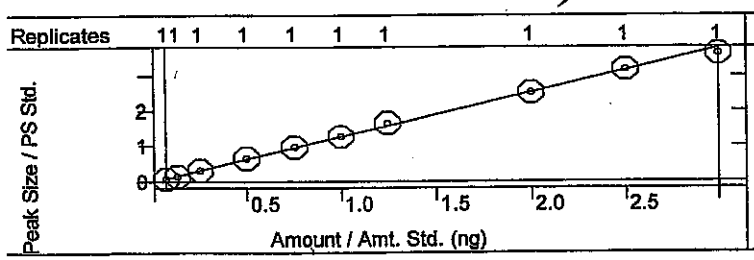
Acenaphthylene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.159%, Coeff. Det.(r2): 0.999534
y = -0.0224x2 +2.0006x -0.0303



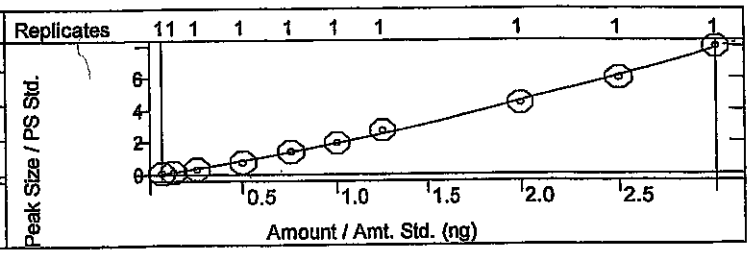
3-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.094%, Coeff. Det.(r2): 0.998400
y = +1.0951x -0.0082



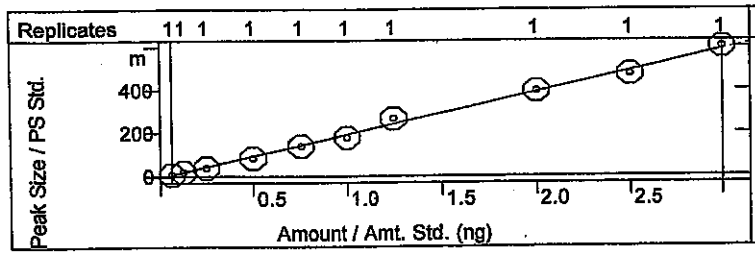
Acenaphthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.435%, Coeff. Det.(r2): 0.998459
y = +1.2637x -5.2278e-4



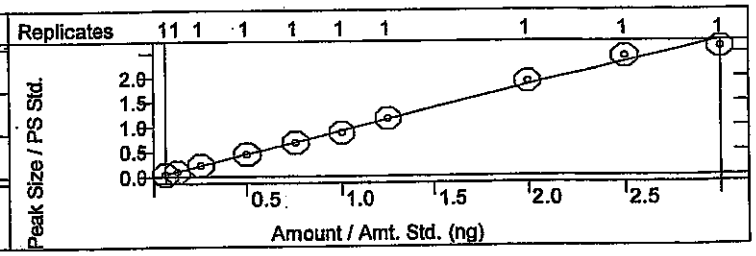
2,4-Dinitrophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 26.80%, Coeff. Det.(r2): 0.998320
y = +0.3360x2 +1.6297x -0.0504



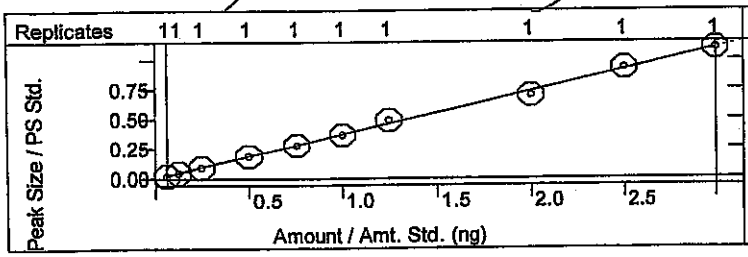
4-Nitrophenol
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 13.63%, Coeff. Det.(r2): 0.996657
y = +0.1978x -0.0058



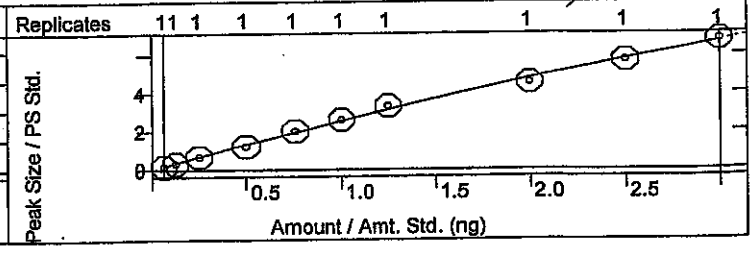
Dibenzofuran
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.719%, Coeff. Det.(r2): 0.994460
y = +0.9260x -0.0079



2,4-Dinitrotoluene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.023%, Coeff. Det.(r2): 0.998251
y = -0.0024x2 +0.3726x -8.6289e-4



Diethyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.458%, Coeff. Det.(r2): 0.997470
y = -0.1596x2 +2.7064x +0.0097



Calibration Curves Report

J dm 4/28/14

Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

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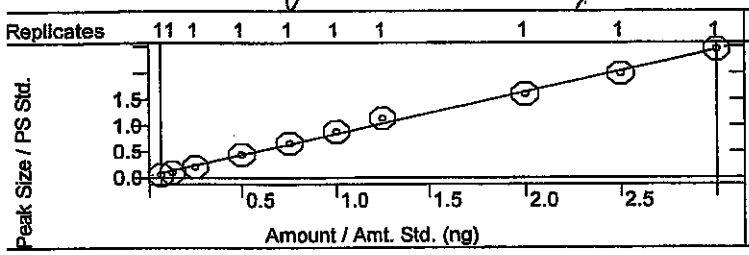
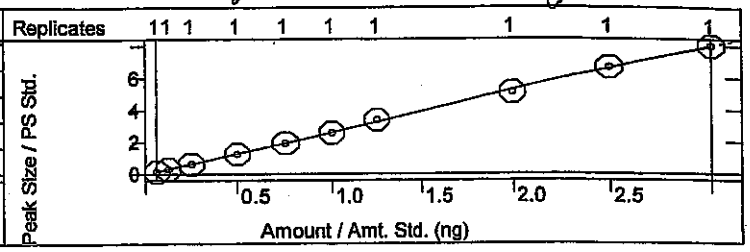
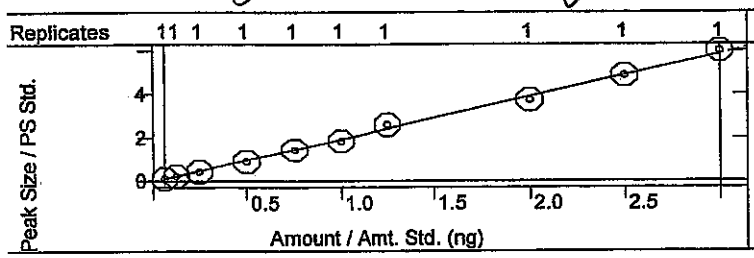
4-Chlorophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.938%, Coeff. Det.(r2): 0.996831
y = +0.8008x +0.0369



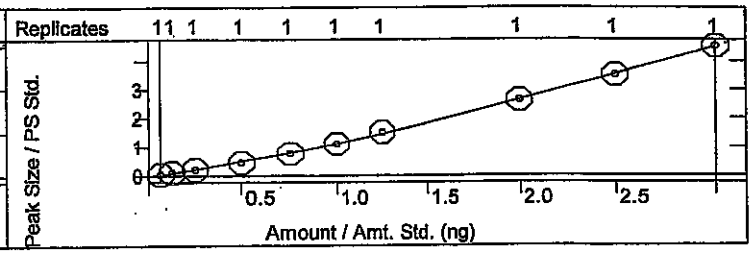
Fluorene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.515%, Coeff. Det.(r2): 0.999290
y = +0.0326x2 +2.5807x -0.0219



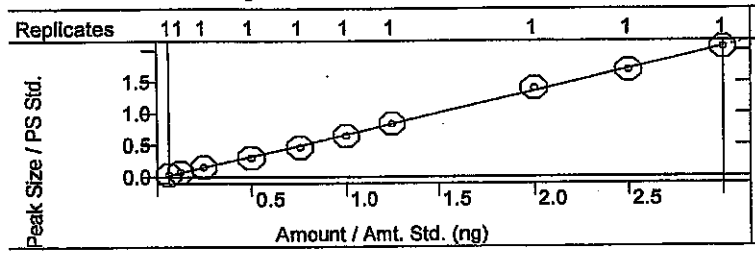
4-Nitroaniline
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 7.952%, Coeff. Det.(r2): 0.997637
y = +1.9592x -0.0342



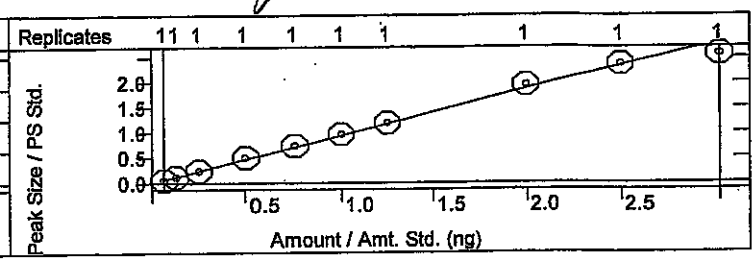
4,6-Dinitro-2-methylphenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 27.37%, Coeff. Det.(r2): 0.999676
y = +0.1832x2 +0.9745x -0.0414



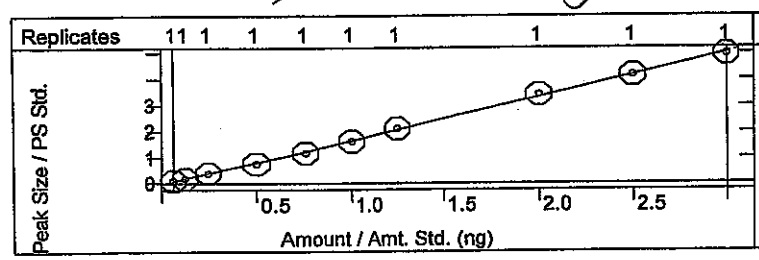
N-Nitrosodiphenylamine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.334%, Coeff. Det.(r2): 0.999111
y = +0.0060x2 +0.6726x -0.0178



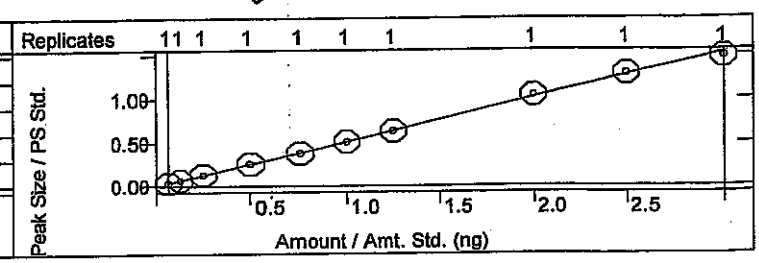
Azobenzene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 4.441%, Coeff. Det.(r2): 0.993336
y = +0.9309x +0.0087



2,4,6-Tribromophenol
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 4.729%, Coeff. Det.(r2): 0.999279
y = +1.6734x -0.0209



4-Bromophenyl phenyl ether
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.698%, Coeff. Det.(r2): 0.998883
y = +0.5069x +0.0044



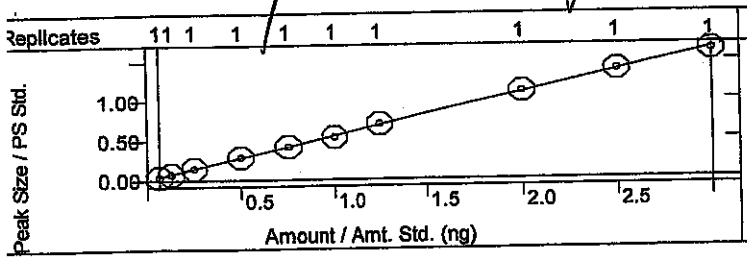
Calibration Curves Report

JDM 4/28/14

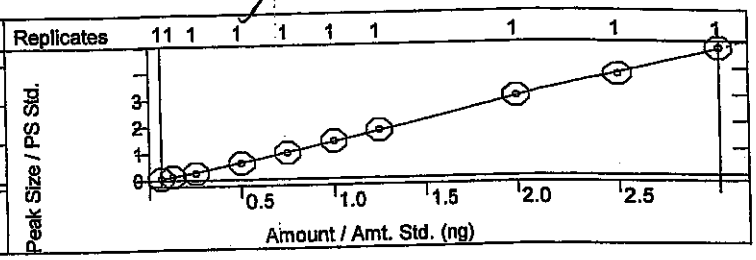
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

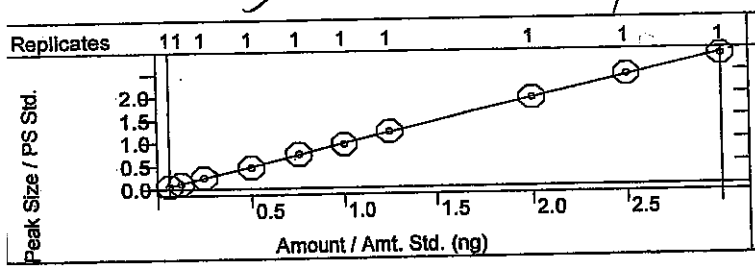
Hexachlorobenzene
Curve Fit: Linear, Origin: Ignore, Weight: None
Resp. Fact. RSD: 2.767%, Coeff. Det.(r2): 0.999693
y = +0.5470x +0.0070



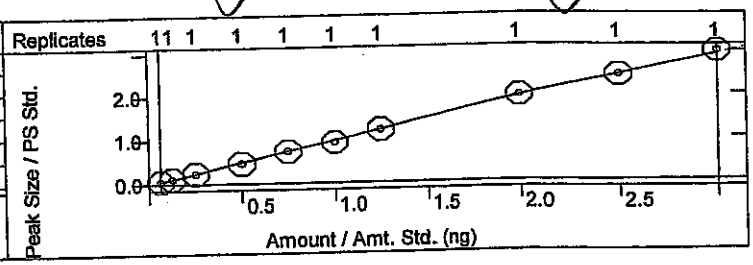
Pentachlorophenol
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 17.77%, Coeff. Det.(r2): 0.999697
y = +0.0876x2 +1.3397x -0.0505



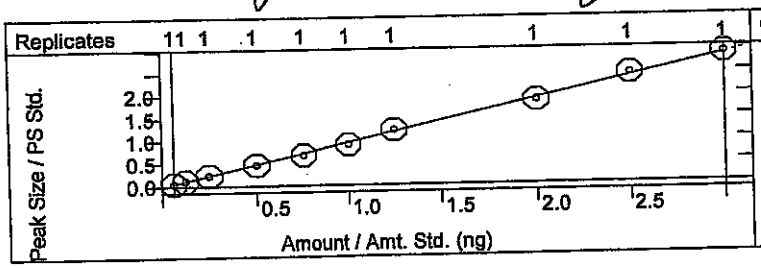
Phenanthrene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 2.193%, Coeff. Det.(r2): 0.999710
y = +0.9606x +0.0012



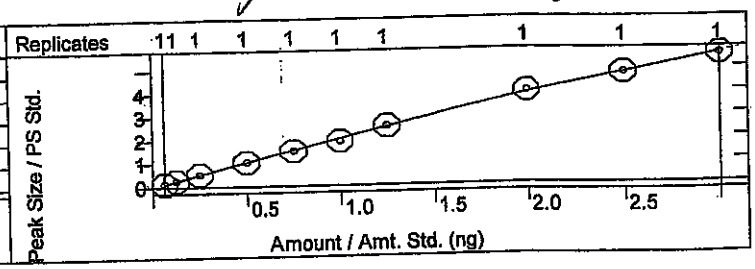
Anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.245%, Coeff. Det.(r2): 0.999401
y = +0.9799x -0.0082



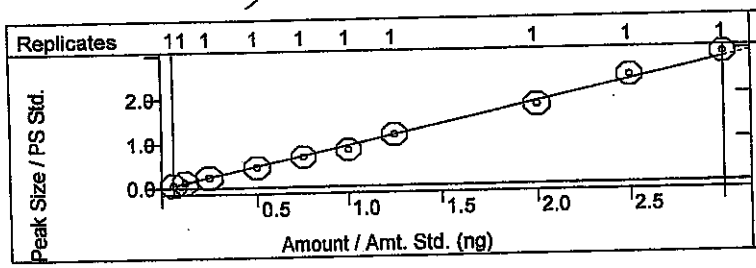
Carbazole
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 3.701%, Coeff. Det.(r2): 0.998846
y = +0.9547x -0.0072



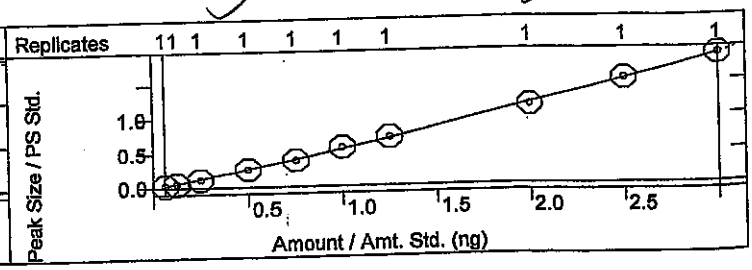
Di-n-butyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.021%, Coeff. Det.(r2): 0.999313
y = -0.0867x2 +2.1259x -0.0084



Fluoranthene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.006%, Coeff. Det.(r2): 0.996575
y = +0.9392x -0.0094



Benzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.25%, Coeff. Det.(r2): 0.999450
y = +0.0349x2 +0.5252x -0.0098



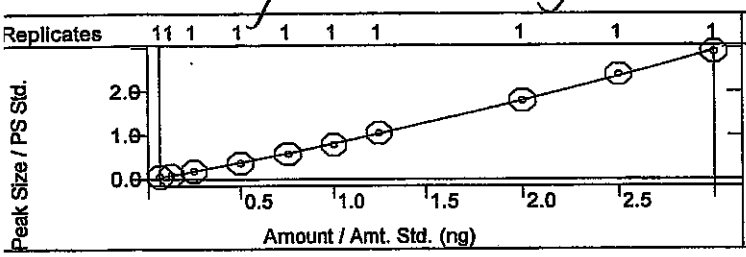
Calibration Curves Report

J dlm 4/28/14

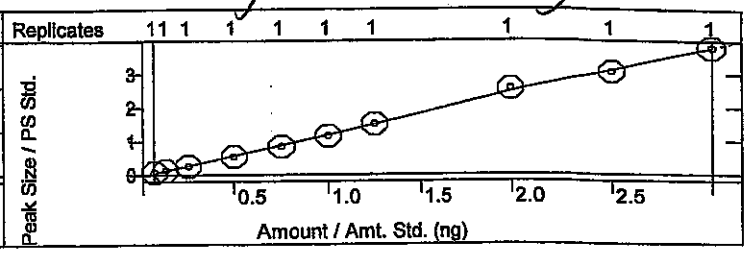
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JV 4-28-14

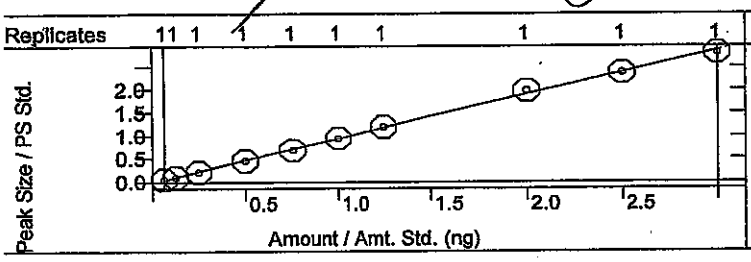
Pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.49%, Coeff. Det.(r2): 0.999486
y = +0.0803x2 +0.7448x -0.0135



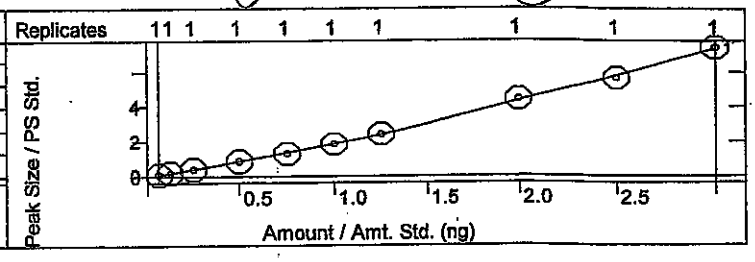
4-Terphenyl-d14
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 7.662%, Coeff. Det.(r2): 0.999045
y = +0.0285x2 +1.1902x -0.0321



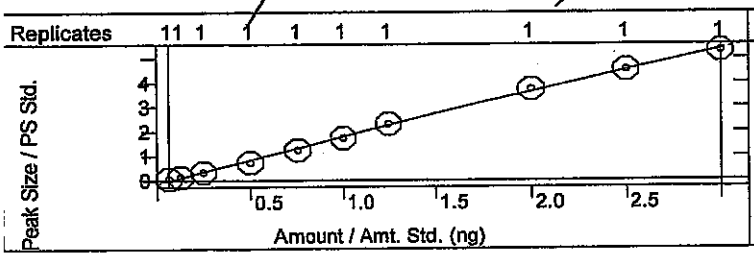
Butyl benzyl phthalate
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 5.412%, Coeff. Det.(r2): 0.998931
y = +0.9570x -0.0113



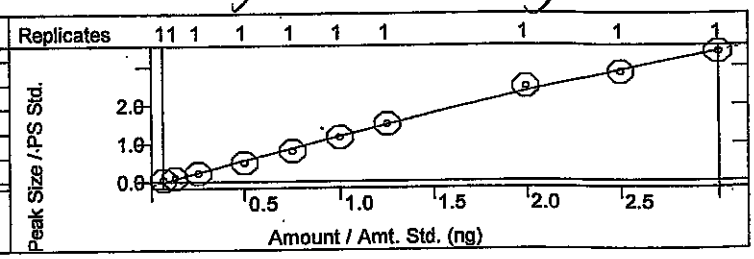
3,3'-Dichlorobenzidine
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 18.70%, Coeff. Det.(r2): 0.999447
y = +0.3013x2 +1.5679x -0.0156



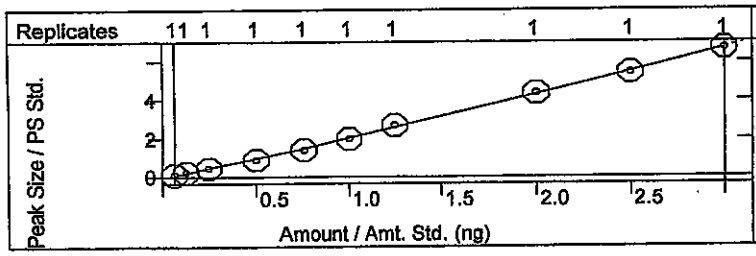
Benz[a]anthracene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 16.16%, Coeff. Det.(r2): 0.998527
y = -0.0513x2 +1.9868x -0.1374



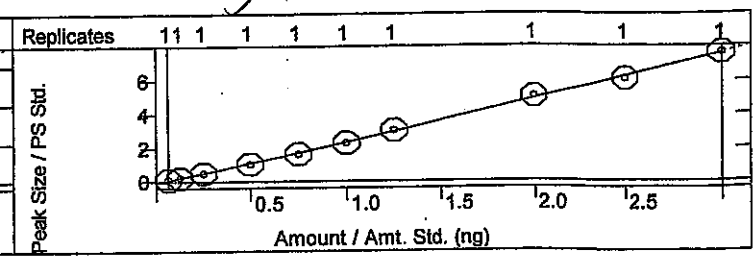
Bis(2-ethylhexyl)phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.42%, Coeff. Det.(r2): 0.997629
y = -0.0540x2 +1.3239x -0.0851



Chrysene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 9.119%, Coeff. Det.(r2): 0.999263
y = +0.0641x2 +2.0511x -0.0655



Di-n-octyl phthalate
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 12.20%, Coeff. Det.(r2): 0.999016
y = +0.0674x2 +2.3580x -0.0843



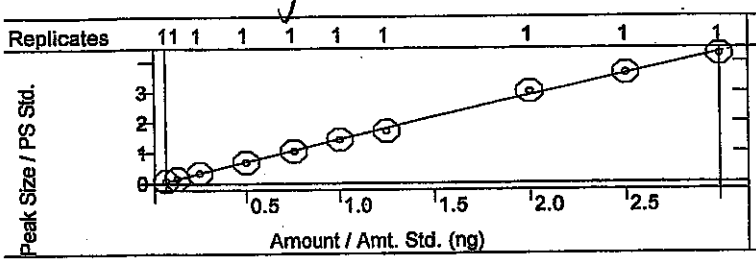
Calibration Curves Report

I dmh 4/28/14

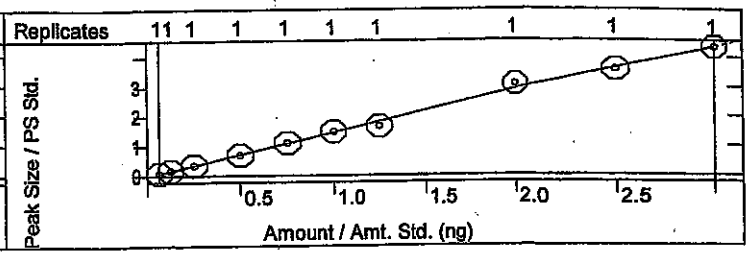
Method:	c:\varianws\methods\8270 042514.mth		
Recalc Method:	...270 042514.mth	Last Calibration:	4/25/2014 2:36 PM
Sample List:	N/A	Cmpd. Table Updated:	4/25/2014 3:08 PM
Sequence:	N/A	Detector:	2000 Mass Spec
MS Workstation (Upgrade)		Workstation Version:	Version 6.9
Peak Measurement:	Area	Calibration Type:	Internal Standard Analysis

JC 4-28-14

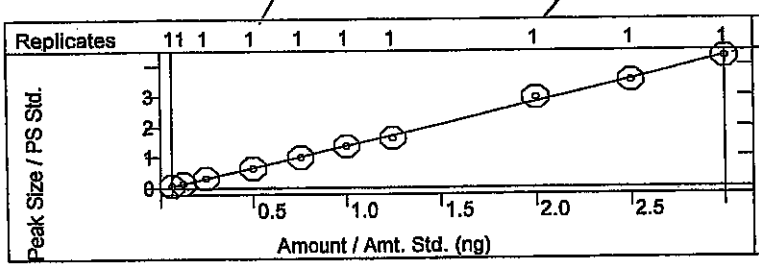
Benzo(b)fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.475%, Coeff. Det.(r2): 0.998495
y = -0.0187x2 +1.5058x -0.0450



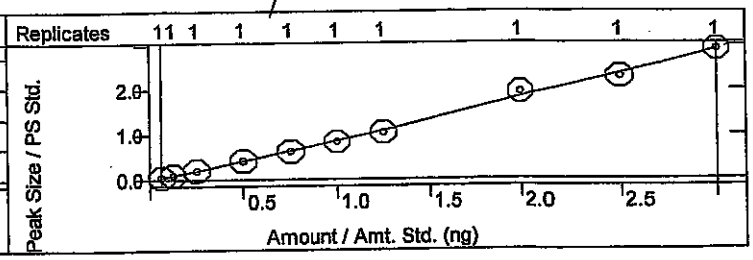
Benzo[k]fluoranthene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 5.411%, Coeff. Det.(r2): 0.997251
y = -0.0046x2 +1.4793x -0.0270



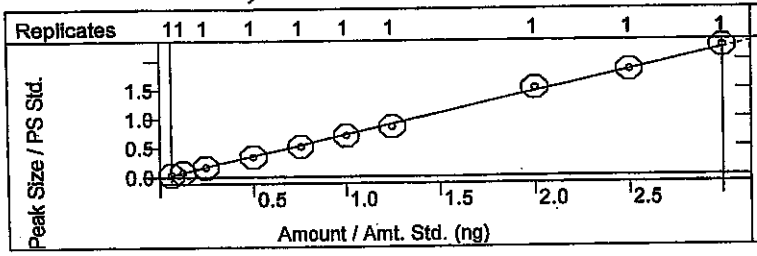
Benzo[a]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 6.796%, Coeff. Det.(r2): 0.998353
y = +0.0286x2 +1.3562x -0.0307



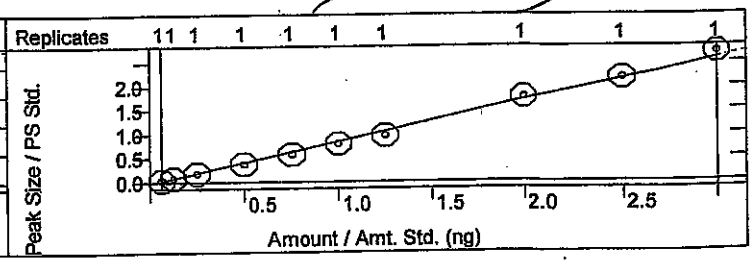
Indeno[1,2,3-cd]pyrene
Curve Fit: Quadratic, Origin: Ignore, Weight: None
Resp. Fact. RSD: 8.340%, Coeff. Det.(r2): 0.997915
y = +0.0516x2 +0.8155x -0.0112



Dibenz[a,h]anthracene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 6.760%, Coeff. Det.(r2): 0.998741
y = +0.7370x -0.0131



Benzo[g,h,i]perylene
Curve Fit: Linear, Origin: Ignore, Weight: 1/X
Resp. Fact. RSD: 10.14%, Coeff. Det.(r2): 0.997272
y = +0.8684x -0.0237



SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Instrument ID: ELMO Cal. Sample Date(s): 4/25/2014 4/25/2014

Heated Purge (Y/N): No Cal. Sample Time(s): 14:14 14:14

GC Column: FactorFour ID: .25 (mm)

Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Index: 1	Level: 1	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 2	Level: 2	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 3	Level: 3	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 4	Level: 4	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 5	Level: 5	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 6	Level: 6	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 7	Level: 7	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 8	Level: 8	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 9	Level: 9	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates
Index: 10	Level: 10	Replicate: 1	Acquired: 4/25/2014 14:14	File: Average replicates

RRF = (Area(sample)/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
N-nitrosodimethylamine	3.826	3.759	3.734	3.645	3.341	3.099	3.168	2.729	0.9990	3.234	15.8	PASS	PASS
2.590 2.455													
Pyridine	9.322	9.086	9.213	9.458	9.536	9.117	9.125	9.115	0.9989	9.117	3.5	PASS	PASS
8.484 8.713													
2-Fluorophenol	1.132	1.125	1.106	1.144	1.140	1.112	1.178	1.184	0.9991	1.140	2.3	PASS	PASS
1.149 1.127													
Phenol-d5	0.975	1.001	1.075	1.074	1.108	1.082	1.108	1.107	0.9993	1.071	4.4	PASS	PASS
1.071 1.114													

dm 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Phenol	1.148	1.175	1.185	1.204	1.202	1.194	1.253	1.200	0.9995	1.192	2.5	PASS	PASS
1.202 1.156													
Aniline	3.774	3.829	3.851	4.053	4.051	3.863	4.079	4.073	0.9985	3.965	3.4	PASS	PASS
4.162 3.913													
Bis(2-chloroethyl)ether	2.266	2.204	2.164	2.168	2.053	2.021	2.062	1.909	0.9996	2.055	7.2	PASS	PASS
1.858 1.840													
2-Chlorophenol	1.171	1.164	1.169	1.177	1.207	1.184	1.230	1.192	0.9997	1.188	1.7	PASS	PASS
1.181 1.206													
1,3-Dichlorobenzene	1.502	1.503	1.509	1.466	1.421	1.450	1.487	1.512	0.9981	1.470	3.0	PASS	PASS
1.475 1.376													
1,4-Dichlorobenzene	1.685	1.505	1.602	1.528	1.477	1.421	1.486	1.441	0.9969	1.492	6.5	PASS	PASS
1.441 1.337													
Benzyl alcohol	1.089	1.140	1.099	1.162	1.098	1.120	1.153	1.076	0.9997	1.099	4.3	PASS	PASS
1.042 1.013													
1,2-Dichlorobenzene	1.565	1.483	1.485	1.467	1.417	1.391	1.433	1.399	0.9997	1.438	4.4	PASS	PASS
1.357 1.380													
2-Methylphenol	0.985	0.960	1.012	1.039	1.054	0.961	0.980	1.000	0.9987	0.990	3.7	PASS	PASS
0.959 0.946													
Bis(2-chloroisopropyl)ether	1.150	1.174	1.259	1.345	1.389	1.347	1.430	1.413	0.9996	1.326	7.4	PASS	PASS
1.386 1.364													
3+4-Methylphenol	1.193	1.214	1.220	1.294	1.230	1.170	1.222	1.165	0.9991	1.181	6.6	PASS	PASS
1.083 1.021													
N-Nitrosodi-n-propylamine	3.987	3.931	3.885	3.660	3.713	3.576	3.604	3.633	0.9930	3.639	7.5	PASS	PASS
3.244 3.160													
Hexachloroethane	4.614	4.765	4.712	4.769	4.664	4.728	4.806	4.832	0.9973	4.687	2.7	PASS	PASS
4.568 4.415													

dem 4/28/14

JC 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Nitrobenzene-d5	0.311	0.295	0.301	0.318	0.307	0.307	0.311	0.297	0.9999	0.302	3.7	PASS	PASS
0.291 0.280													
Nitrobenzene	0.324	0.284	0.318	0.324	0.320	0.309	0.324	0.308	0.9994	0.309	5.4	PASS	PASS
0.290 0.285													
Isophorone	0.643	0.581	0.603	0.588	0.568	0.597	0.587	0.608	0.9992	0.594	3.6	PASS	PASS
0.582 0.579													
2-Nitrophenol	0.291	0.279	0.296	0.298	0.296	0.304	0.317	0.308	0.9996	0.299	3.4	PASS	PASS
0.305 0.296													
2,4-Dimethylphenol	0.373	0.346	0.360	0.362	0.359	0.359	0.371	0.359	0.9997	0.361	2.1	PASS	PASS
0.365 0.355													
Benzoic acid	1.040	1.037	1.685	1.635	1.928	2.058	1.935	2.509	0.9962	1.876	28.8	PASS	PASS
2.443 2.488													
Bis(2-chloroethoxy)methane	0.392	0.352	0.368	0.362	0.347	0.354	0.367	0.366	0.9998	0.363	3.4	PASS	PASS
0.362 0.361													
2,4-Dichlorophenol	0.329	0.324	0.344	0.338	0.349	0.341	0.344	0.365	0.9990	0.343	3.4	PASS	PASS
0.350 0.345													
1,2,4-Trichlorobenzene	0.331	0.326	0.332	0.341	0.335	0.342	0.329	0.330	0.9995	0.331	2.2	PASS	PASS
0.320 0.322													
Naphthalene	0.865	0.823	0.826	0.830	0.817	0.821	0.836	0.864	0.9987	0.833	2.2	PASS	PASS
0.833 0.810													
4-Chloroaniline	0.349	0.333	0.361	0.371	0.385	0.384	0.386	0.405	0.9996	0.379	6.9	PASS	PASS
0.399 0.418													
Hexachlorobutadiene	0.759	0.692	0.697	0.697	0.667	0.669	0.674	0.674	0.9987	0.681	5.1	PASS	PASS
0.646 0.633													
4-Chloro-3-methylphenol	0.438	0.391	0.417	0.413	0.427	0.427	0.430	0.432	0.9988	0.420	3.3	PASS	PASS
0.407 0.415													

dam 4/28/14

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2-Methylnaphthalene	0.282	0.255	0.260	0.256	0.267	0.260	0.258	0.256	0.9967	0.257	5.3	PASS	PASS
0.237 0.235													
1-Methylnaphthalene	0.287	0.259	0.265	0.265	0.262	0.254	0.264	0.265	0.9956	0.261	4.8	PASS	PASS
0.253 0.237													
Hexachlorocyclopentadiene	0.556	0.506	0.509	0.510	0.498	0.506	0.508	0.516	0.9991	0.509	3.6	PASS	PASS
0.496 0.488													
2,4,6-Trichlorophenol	0.299	0.300	0.321	0.358	0.344	0.347	0.358	0.353	0.9972	0.341	7.9	PASS	PASS
0.382 0.354													
2,4,5-Trichlorophenol	0.284	0.246	0.313	0.331	0.329	0.333	0.339	0.322	0.9994	0.316	9.2	PASS	PASS
0.336 0.327													
2-Fluorobiphenyl	1.346	1.406	1.422	1.599	1.420	1.473	1.512	1.556	0.9982	1.487	6.0	PASS	PASS
1.613 1.527													
2-Chloronaphthalene	1.446	1.430	1.495	1.632	1.448	1.539	1.575	1.580	0.9977	1.531	4.9	PASS	PASS
1.637 1.526													
2-Nitroaniline	0.965	0.998	1.021	1.110	1.155	1.114	1.157	1.092	0.9987	1.085	6.2	PASS	PASS
1.145 1.096													
Dimethyl phthalate	2.728	2.643	2.808	2.881	2.942	2.949	3.019	2.801	0.9988	2.849	4.0	PASS	PASS
2.814 2.908													
2,6-Dinitrotoluene	0.603	0.627	0.665	0.647	0.704	0.696	0.720	0.690	0.9994	0.673	5.5	PASS	PASS
0.682 0.692													
Acenaphthylene	1.747	1.803	1.812	1.944	1.892	1.950	1.983	1.905	0.9995	1.892	4.2	PASS	PASS
1.966 1.913													
3-Nitroaniline	1.010	1.008	1.011	1.035	1.124	1.080	1.172	1.053	0.9984	1.067	5.1	PASS	PASS
1.084 1.093													
Acenaphthene	1.183	1.225	1.264	1.303	1.292	1.276	1.327	1.262	0.9985	1.262	3.4	PASS	PASS
1.273 1.215													

dam 4/28/14

JL 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
2,4-Dinitrophenol	1.285	1.264	1.361	1.480	1.841	1.938	2.191	2.212	0.9983	1.863	26.8	PASS	PASS
2.397 2.657													
4-Nitrophenol	0.133	0.158	0.157	0.168	0.186	0.179	0.213	0.197	0.9967	0.178	13.6	PASS	PASS
0.190 0.200													
Dibenzofuran	0.831	0.812	0.925	0.904	0.911	0.878	0.930	0.958	0.9945	0.899	5.7	PASS	PASS
0.970 0.871													
2,4-Dinitrotoluene	0.337	0.370	0.355	0.371	0.367	0.364	0.392	0.350	0.9983	0.364	4.0	PASS	PASS
0.372 0.365													
Diethyl phthalate	2.735	2.579	2.659	2.438	2.704	2.619	2.668	2.281	0.9975	2.523	7.5	PASS	PASS
2.285 2.265													
4-Chlorophenyl phenyl ether	0.887	0.822	0.835	0.886	0.879	0.881	0.912	0.800	0.9968	0.852	4.9	PASS	PASS
0.796 0.815													
Fluorene	2.293	2.338	2.489	2.501	2.579	2.574	2.716	2.557	0.9993	2.540	5.5	PASS	PASS
2.678 2.673													
4-Nitroaniline	1.616	1.706	1.683	1.778	1.912	1.845	2.077	1.862	0.9976	1.842	8.0	PASS	PASS
1.939 1.999													
4,6-Dinitro-2-methylphenol	0.627	0.766	0.829	0.896	1.031	1.111	1.220	1.317	0.9997	1.072	27.4	PASS	PASS
1.408 1.514													
N-Nitrosodiphenylamine	0.617	0.611	0.620	0.604	0.622	0.646	0.669	0.700	0.9991	0.644	5.3	PASS	PASS
0.674 0.682													
Azobenzene	0.933	0.990	0.977	1.013	0.987	0.970	0.956	0.975	0.9933	0.961	4.4	PASS	PASS
0.949 0.858													
2,4,6-Tribromophenol	1.754	1.512	1.566	1.552	1.586	1.632	1.695	1.711	0.9993	1.632	4.7	PASS	PASS
1.664 1.647													
4-Bromophenyl phenyl ether	0.553	0.553	0.533	0.522	0.508	0.513	0.507	0.522	0.9989	0.522	3.7	PASS	PASS
0.516 0.494													

dam 4/28/14

JV 4-28-14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Hexachlorobenzene	0.586	0.574	0.581	0.572	0.558	0.539	0.561	0.556	0.9997	0.563	2.8	PASS	PASS
0.554 0.544													
Pentachlorophenol	0.937	1.036	1.029	1.235	1.313	1.401	1.430	1.498	0.9997	1.299	17.8	PASS	PASS
1.518 1.593													
Phenanthrene	0.984	0.964	0.993	0.921	0.982	0.945	0.973	0.962	0.9997	0.965	2.2	PASS	PASS
0.972 0.953													
Anthracene	0.935	0.910	0.940	0.917	0.968	0.922	0.966	0.983	0.9994	0.952	3.2	PASS	PASS
0.975 1.000													
Carbazole	0.880	0.937	0.921	0.922	0.891	0.901	0.977	0.930	0.9988	0.930	3.7	PASS	PASS
0.979 0.962													
Di-n-butyl phthalate	2.228	2.187	2.121	2.076	2.010	1.921	2.038	1.992	0.9993	2.033	6.0	PASS	PASS
1.906 1.853													
Fluoranthene	0.897	0.914	0.886	0.875	0.892	0.826	0.931	0.897	0.9966	0.907	5.0	PASS	PASS
0.975 0.976													
Benzidine	0.474	0.439	0.455	0.521	0.518	0.575	0.572	0.576	0.9994	0.537	12.2	PASS	PASS
0.612 0.627													
Pyrene	0.860	0.676	0.713	0.728	0.771	0.785	0.844	0.899	0.9995	0.821	12.5	PASS	PASS
0.959 0.971													
4-Terphenyl-d14	1.229	1.047	1.032	1.087	1.123	1.158	1.209	1.276	0.9990	1.166	7.7	PASS	PASS
1.228 1.265													
Butyl benzyl phthalate	0.885	0.829	0.857	0.909	0.913	0.951	0.959	0.990	0.9989	0.918	5.4	PASS	PASS
0.951 0.938													
3,3'-Dichlorobenzidine	1.436	1.529	1.573	1.699	1.708	1.849	1.952	2.211	0.9994	1.870	18.7	PASS	PASS
2.262 2.483													
Benz[a]anthracene	1.272	1.159	1.376	1.477	1.665	1.740	1.854	1.869	0.9985	1.599	16.2	PASS	PASS
1.811 1.768													

dam 4/28/

JC 4.28.14

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	COD(r2)	Avg RRF	% RSD	CCC	SPCC
RRF9 RRF10													
Bis(2-ethylhexyl)phthalate	0.904	0.863	0.919	1.009	1.078	1.163	1.200	1.235	0.9976	1.064	12.4	PASS	PASS
1.136 1.128													
Chrysene	1.799	1.815	1.806	1.799	1.902	2.000	2.161	2.181	0.9993	1.985	9.1	PASS	PASS
2.169 2.219													
Di-n-octyl phthalate	1.822	1.830	2.004	2.121	2.203	2.299	2.432	2.522	0.9990	2.221	12.2	PASS	PASS
2.433 2.545													
Benzo(b)fluoranthene	1.298	1.247	1.341	1.376	1.401	1.432	1.368	1.508	0.9985	1.384	5.5	PASS	PASS
1.451 1.417													
Benzo[k]fluoranthene	1.314	1.324	1.384	1.380	1.468	1.478	1.327	1.539	0.9973	1.410	5.4	PASS	PASS
1.436 1.452													
Benzo[a]pyrene	1.210	1.196	1.280	1.279	1.312	1.351	1.293	1.471	0.9984	1.322	6.8	PASS	PASS
1.400 1.425													
Indeno[1,2,3-cd]pyrene	0.807	0.761	0.804	0.818	0.828	0.835	0.839	0.968	0.9979	0.854	8.3	PASS	PASS
0.914 0.969													
Dibenz[a,h]anthracene	0.611	0.638	0.670	0.680	0.690	0.705	0.688	0.761	0.9987	0.692	6.8	PASS	PASS
0.732 0.746													
Benzo[g,h,i]perylene	0.650	0.710	0.743	0.763	0.771	0.799	0.777	0.883	0.9973	0.787	10.1	PASS	PASS
0.869 0.904													
										Average %RSD	6.9		

dhm 4/28/1

JC 4-28-14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\april 2014\042514crv\50ppm crv.SMS Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA# IS1	RT #	AREA# IS2	RT #	AREA# IS3	RT #	AREA# IS4	RT #	AREA# IS5	RT #	AREA# IS6	RT #
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
rb-8270	166615	5.20	578864	6.92	292957	9.52	588909	11.77	679005	15.79	872616	17.95
2.5ppm crv	227906	5.20	779172	6.92	397415	9.52	754077	11.77	741990	15.79	901817	17.95
5ppm crv	198531	5.19	711288	6.92	337858	9.51	634552	11.76	809441	15.79	993917	17.95
10ppm crv	211323	5.20	736417	6.92	345850	9.52	660117	11.77	798762	15.79	935541	17.95
20ppm crv	218277	5.20	744716	6.92	315274	9.52	601017	11.77	703468	15.79	834222	17.95
30ppm crv	227658	5.20	779132	6.92	351718	9.52	723933	11.77	759239	15.80	866240	17.95
40ppm crv	225379	5.20	753201	6.92	335785	9.53	659741	11.77	677859	15.79	819041	17.95
80ppm crv	204347	5.20	676883	6.92	290726	9.52	545865	11.77	558395	15.79	715007	17.95
100ppm crv	209641	5.20	686080	6.92	277264	9.52	540626	11.77	557161	15.79	727910	17.95
120ppm crv	189218	5.20	611165	6.93	263640	9.52	533138	11.77	529073	15.79	715158	17.95
50ppm icv	199565	5.20	674046	6.92	311433	9.52	629527	11.77	697757	15.79	837417	17.95

dam 4/28/14

4-28-14

	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#	AREA#	RT	#
	IS1			IS2			IS3			IS4			IS5			IS6		

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

dlm 4/28/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC
4-28-14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 4/25/2014 Time: 14:43

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: h:\elmo\data\2014\april 2014\042514crv\50ppm icv.SMS

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.082	0.050	50.00	50.21	-0.4	40.0	PASS	PASS
Pyridine	8.971	0.050	50.00	49.03	1.9	40.0	PASS	PASS
2-Fluorophenol	1.104	0.050	50.00	48.14	3.7	40.0	PASS	PASS
Phenol-d5	1.112	0.050	50.00	50.92	-1.8	40.0	PASS	PASS
Phenol	1.153	0.050	50.00	46.99	6.0	20.0	PASS	PASS
Aniline	4.055	0.050	50.00	49.56	0.9	40.0	PASS	PASS
Bis(2-chloroethyl)ether	2.056	0.050	50.00	51.33	-2.7	40.0	PASS	PASS
2-Chlorophenol	1.163	0.050	50.00	48.61	2.8	40.0	PASS	PASS
1,3-Dichlorobenzene	1.348	0.050	50.00	44.62	10.8	40.0	PASS	PASS
1,4-Dichlorobenzene	1.441	0.050	50.00	50.51	-1.0	20.0	PASS	PASS
Benzyl alcohol	1.097	0.050	50.00	48.88	2.2	40.0	PASS	PASS
1,2-Dichlorobenzene	1.366	0.050	50.00	48.51	3.0	40.0	PASS	PASS
2-Methylphenol	0.973	0.050	50.00	49.86	0.3	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.414	0.050	50.00	50.27	-0.5	40.0	PASS	PASS
3+4-Methylphenol	1.125	0.050	50.00	45.99	8.0	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.412	0.050	50.00	48.19	3.6	40.0	PASS	PASS
Hexachloroethane	4.823	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
Nitrobenzene-d5	0.303	0.050	50.00	49.14	1.7	40.0	PASS	PASS
Nitrobenzene	0.318	0.050	50.00	50.23	-0.5	40.0	PASS	PASS
Isophorone	0.603	0.050	50.00	51.53	-3.1	40.0	PASS	PASS
2-Nitrophenol	0.302	0.050	50.00	48.55	2.9	20.0	PASS	PASS
2,4-Dimethylphenol	0.357	0.050	50.00	48.93	2.1	40.0	PASS	PASS
Benzoic acid	2.138	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.374	0.050	50.00	51.60	-3.2	40.0	PASS	PASS
2,4-Dichlorophenol	0.335	0.050	50.00	47.38	5.2	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.315	0.050	50.00	48.21	3.6	40.0	PASS	PASS
Naphthalene	0.851	0.050	50.00	51.27	-2.5	40.0	PASS	PASS
4-Chloroaniline	0.378	0.050	50.00	48.89	2.2	40.0	PASS	PASS
Hexachlorobutadiene	0.653	0.050	50.00	49.14	1.7	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.421	0.050	50.00	50.24	-0.5	20.0	PASS	PASS
2-Methylnaphthalene	0.244	0.050	50.00	48.54	2.9	40.0	PASS	PASS
1-Methylnaphthalene	0.243	0.050	50.00	47.40	5.2	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.471	0.050	50.00	47.01	6.0	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.314	0.050	50.00	43.91	12.2	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.302	0.050	50.00	45.42	9.2	40.0	PASS	PASS
2-Fluorobiphenyl	1.403	0.050	50.00	45.81	8.4	40.0	PASS	PASS

dam 4/28/14

TV 4-28-14

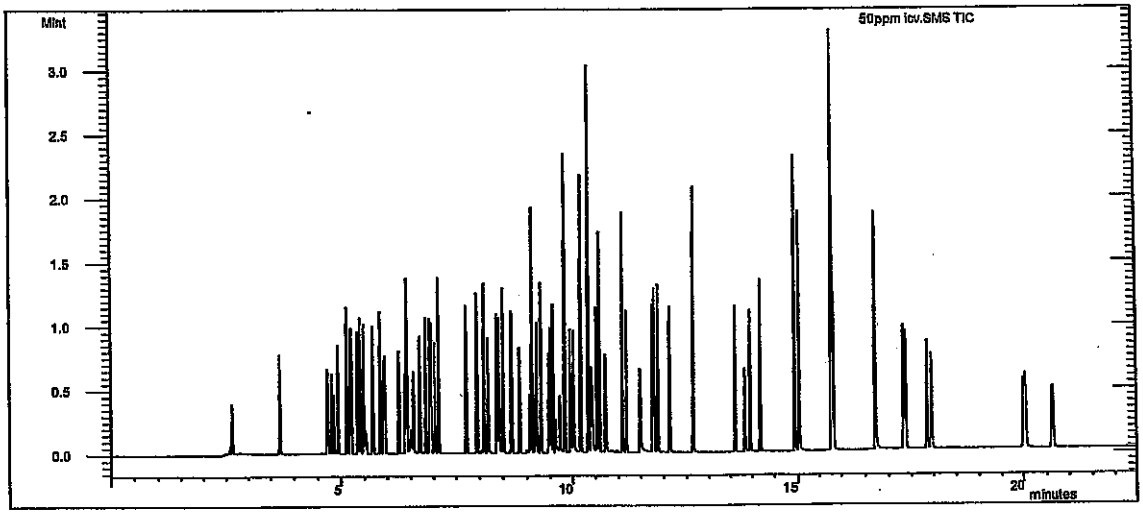
Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.403	0.050	50.00	44.86	10.3	40.0	PASS	PASS
2-Nitroaniline	1.091	0.050	50.00	48.92	2.2	40.0	PASS	PASS
Dimethyl phthalate	2.972	0.050	50.00	51.63	-3.3	40.0	PASS	PASS
2,6-Dinitrotoluene	0.733	0.050	50.00	53.13	-6.3	40.0	PASS	PASS
Acenaphthylene	1.825	0.050	50.00	46.82	6.4	40.0	PASS	PASS
3-Nitroaniline	1.093	0.050	50.00	50.22	-0.4	40.0	PASS	PASS
Acenaphthene	1.243	0.050	50.00	49.20	1.6	20.0	PASS	PASS
2,4-Dinitrophenol	2.089	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
4-Nitrophenol	0.198	0.050	50.00	51.21	-2.4	40.0	PASS	PASS
Dibenzofuran	0.872	0.050	50.00	47.44	5.1	40.0	PASS	PASS
2,4-Dinitrotoluene	0.378	0.050	50.00	51.19	-2.4	40.0	PASS	PASS
Diethyl phthalate	2.610	0.050	50.00	52.06	-4.1	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.817	0.050	50.00	49.20	1.6	40.0	PASS	PASS
Fluorene	2.639	0.050	50.00	50.67	-1.3	40.0	PASS	PASS
4-Nitroaniline	1.911	0.050	50.00	49.47	1.1	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.222	0.050	50.00	51.79	-3.6	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.655	0.050	50.00	49.19	1.6	20.0	PASS	PASS
Azobenzene	0.879	0.050	50.00	46.86	6.3	40.0	PASS	PASS
2,4,6-Tribromophenol	1.610	0.050	50.00	48.59	2.8	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.508	0.050	50.00	49.75	0.5	40.0	PASS	PASS
Hexachlorobenzene	0.560	0.050	50.00	50.70	-1.4	40.0	PASS	PASS
Pentachlorophenol	1.346	0.050	50.00	47.99	4.0	20.0	PASS	PASS
Phenanthrene	0.993	0.050	50.00	51.61	-3.2	40.0	PASS	PASS
Anthracene	1.004	0.050	50.00	51.55	-3.1	40.0	PASS	PASS
Carbazole	0.904	0.050	50.00	47.66	4.7	40.0	PASS	PASS
Di-n-butyl phthalate	2.105	0.050	50.00	52.47	-4.9	40.0	PASS	PASS
Fluoranthene	0.929	0.050	50.00	49.87	0.3	20.0	PASS	PASS
Benzidine	0.442	0.050	50.00	40.13	19.7	40.0	PASS	PASS
Pyrene	0.840	0.050	50.00	50.28	-0.6	40.0	PASS	PASS
4-Terphenyl-d14	1.153	0.050	50.00	48.11	3.8	40.0	PASS	PASS
Butyl benzyl phthalate	0.927	0.050	50.00	48.88	2.2	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.844	0.050	50.00	48.09	3.8	40.0	PASS	PASS
Benz[a]anthracene	1.760	0.050	50.00	48.59	2.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	1.093	0.050	50.00	46.01	8.0	40.0	PASS	PASS
Chrysene	2.044	0.050	50.00	49.22	1.6	40.0	PASS	PASS
Di-n-octyl phthalate	2.359	0.050	50.00	49.69	0.6	20.0	PASS	PASS
Benzo(b)fluoranthene	1.460	0.050	50.00	50.47	-0.9	40.0	PASS	PASS
Benzo[k]fluoranthene	1.502	0.050	50.00	51.69	-3.4	40.0	PASS	PASS
Benzo[a]pyrene	1.390	0.050	50.00	50.81	-1.6	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.883	0.050	50.00	50.65	-1.3	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.747	0.050	50.00	51.41	-2.8	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.860	0.050	50.00	50.62	-1.2	40.0	PASS	PASS

dkm 4/28/14

JC 4-26-14

8270C Report

Sample Name:	50ppm icv	**Operator Name:**	David Melius	**Instrument ID:**	Elmo
Inst. Method:	C:\VarianWS\Methods\8270 042514.mth	**Inj. Notes:**	st110-0599	**Acquisition Date:**	4/25/2014 2:43:23 PM
Calculation Date:	4/25/2014 3:23:40 PM				



Compound Name	RT	Scan	Qual Result	Area	Amount
1,4-Dichlorobenzene-d4	5.199	431	Identified	199565	40.000
Naphthalene-d8 (I.S)	6.921	608	Identified	674046	40.000
Acenaphthene-d10 (I.S)	9.519	875	Identified	311433	40.000
Phenanthrene-d10	11.768	1107	Identified	629527	40.000
Chrysene-d12 I.S	15.791	1517	Identified	697757	40.000
Perylene-d12 I.S	17.951	1742	Identified	837417	40.000
N-nitrosodimethylamine	2.607	165	Identified	768732	50.212
Pyridine	2.656	170	Identified	2.238E6	49.034
2-Fluorophenol	3.707	277	Identified	275522	48.140
Phenol-d5	4.702	380	Identified	277392	50.921
Phenol	4.718	382	Identified	287709	46.986
Aniline	4.797	390	Identified	1.012E6	49.560
Bis(2-chloroethyl)ether	4.851	395	Identified	512939	51.330
2-Chlorophenol	4.935	404	Identified	290092	48.605
1,3-Dichlorobenzene	5.129	424	Identified	336371	44.620
1,4-Dichlorobenzene	5.222	434	Identified	359565	50.514
Benzyl alcohol	5.359	448	Identified	273654	48.878
1,2-Dichlorobenzene	5.418	454	Identified	340672	48.505
2-Methylphenol	5.485	461	Identified	242755	49.863
Bis(2-chloroisopropyl)ether	5.524	465	Identified	352647	50.270
3+4-Methylphenol	5.687	482	Identified	280517	45.987
N-Nitrosodi-n-propylamine	5.700	483	Identified	851169	48.195
Hexachloroethane	5.857	499	Identified	1.203E6	52.056
Nitrobenzene-d5	5.927	506	Identified	254968	49.137

Compound Name	RT	Scan	Qual Result	Area	Amount
Nitrobenzene	5.954	509	Identified	267857	50.232
Isophorone	6.260	540	Identified	508462	51.531
2-Nitrophenol	6.388	553	Identified	254031	48.549
2,4-Dimethylphenol	6.422	557	Identified	300816	48.932
Benzoic acid	6.502	565	Identified	1.801E6	49.747
Bis(2-chloroethoxy)methane	6.564	572	Identified	314796	51.604
2,4-Dichlorophenol	6.710	587	Identified	282177	47.384
1,2,4-Trichlorobenzene	6.839	600	Identified	265725	48.209
Naphthalene	6.953	612	Identified	717136	51.266
4-Chloroaniline	7.035	620	Identified	318669	48.885
Hexachlorobutadiene	7.115	628	Identified	550605	49.143
4-Chloro-3-methylphenol	7.730	691	Identified	354840	50.244
2-Methylnaphthalene	7.957	714	Identified	205957	48.538
1-Methylnaphthalene	8.105	730	Identified	204845	47.401
Hexachlorocyclopentadiene	8.183	738	Identified	396783	47.006
2,4,6-Trichlorophenol	8.379	758	Identified	122335	43.912
2,4,5-Trichlorophenol	8.424	763	Identified	117495	45.421
2-Fluorobiphenyl	8.503	771	Identified	546312	45.811
2-Chloronaphthalene	8.684	789	Identified	546131	44.864
2-Nitroaniline	8.857	807	Identified	424764	48.917
Dimethyl phthalate	9.119	834	Identified	1.157E6	51.630
2,6-Dinitrotoluene	9.221	845	Identified	285537	53.135
Acenaphthylene	9.308	853	Identified	710352	46.823
3-Nitroaniline	9.477	871	Identified	425614	50.215
Acenaphthene	9.571	881	Identified	483932	49.201
2,4-Dinitrophenol	9.628	887	Identified	813321	51.610
4-Nitrophenol	9.723	897	Identified	77067	51.206
Dibenzofuran	9.829	907	Identified	339557	47.438
2,4-Dinitrotoluene	9.826	907	Identified	146998	51.190
Diethyl phthalate	10.179	944	Identified	1.016E6	52.064
4-Chlorophenyl phenyl ether	10.347	961	Identified	318243	49.202
Fluorene	10.347	961	Identified	1.028E6	50.665
4-Nitroaniline	10.403	967	Identified	743937	49.467
4,6-Dinitro-2-methylphenol	10.437	970	Identified	961551	51.787
N-Nitrosodiphenylamine	10.534	981	Identified	515214	49.188
Azobenzene	10.588	986	Identified	691999	46.859
2,4,6-Tribromophenol	10.716	999	Identified	1.267E6	48.593
4-Bromophenyl phenyl ether	11.087	1037	Identified	399706	49.752
Hexachlorobenzene	11.175	1046	Identified	440864	50.695
Pentachlorophenol	11.483	1077	Identified	1.059E6	47.991
Phenanthrene	11.804	1111	Identified	781082	51.614
Anthracene	11.881	1119	Identified	789853	51.554
Carbazole	12.141	1145	Identified	711618	47.663
Di-n-butyl phthalate	12.654	1198	Identified	1.656E6	52.469
Fluoranthene	13.611	1295	Identified	731198	49.869
Benzidine	13.843	1319	Identified	385293	40.130
Pyrene	13.958	1331	Identified	732253	50.275
4-Terphenyl-d14	14.196	1355	Identified	1.005E6	48.110
Butyl benzyl phthalate	14.939	1430	Identified	808142	48.880
3,3'-Dichlorobenzidine	15.759	1514	Identified	1.608E6	48.089

Operator: David Melius Inj. Notes: st110-0599 50ppm icv.SMS

4/25/2014 15:24

Compound Name	RT	Scan	Qual Result	Area	Amount
Benz[a]anthracene	15.778	1516	Identified	1.535E6	48.586
Bis(2-ethylhexyl)phthalate	15.784	1516	Identified	953223	46.006
Chrysene	15.830	1521	Identified	1.783E6	49.222
Di-n-octyl phthalate	16.719	1613	Identified	2.057E6	49.686
Benzo(b)fluoranthene	17.334	1677	Identified	1.528E6	50.471
Benzo[k]fluoranthene	17.373	1681	Identified	1.572E6	51.693
Benzo[a]pyrene	17.853	1732	Identified	1.455E6	50.807
Indeno[1,2,3-cd]pyrene	20.007	1958	Identified	924495	50.645
Dibenz[a,h]anthracene	20.050	1963	Identified	782332	51.410
Benzo[g,h,i]perylene	20.641	2025	Identified	900458	50.623

****
Revision Log
****

4/25/2014 3:05 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'
4/25/2014 3:23 PM: Processed as Analysis sample using method:
'C:\VarianWS\Methods\8270 042514.mth'

Varian Star Workstation - 8400 SampleList Fri Aug 22 08:25:41 2014

SampleList: C:\VarianWS\082114.smp

Created: Thu Aug 21 08:17:53 2014
Modified: Fri Aug 22 07:41:38 2014

****

JC 8.22.14

Line	Sample Name	Inj.	Injection Notes	Vial	Inject Volume
1	dftpp tune	1	below	0	1.0
	Notes sv110-0601				
2	30ppm	1	below	1	1.0
	Notes SV110-0592				
3	mb-14865	1	below	2	1.0
	Notes soil				
4	lcs-14865	1	below	3	1.0
	Notes soil				
5	1408893-001A	1	below	4	1.0
	Notes x1 soil				
6	1408893-002A	1	below	5	1.0
	Notes x1 soil				
7	1408893-003A	1	below	6	1.0
	Notes x1 soil				
8	1408994-001A	1	below	7	1.0
	Notes x1 soil				
9	1408994-001Ams	1	below	8	1.0
	Notes x1 soil				
10	1408994-001Amsd	1	below	9	1.0
	Notes x1 soil				
11	1408994-002A	1	below	10	1.0
	Notes x1 soil, fv=2ml				
12	1408898-001C	1	below	11	1.0
	Notes x1 AQ				
13	1408899-001C	1	below	12	1.0
	Notes x1 AQ				
14	1408901-001C	1	below	13	1.0
	Notes x1 AQ				
15	1408898-001C	1	below	14	1.0
	Notes x10 AQ				
16	1408901-001C	1	below	15	1.0
	Notes x10 AQ				
17	mb-14882	1	below	16	1.0
	Notes TLCP				
18	1408890-001A	1	below	17	1.0
	Notes x1 TLCP				
19	1408890-001Ams	1	below	18	1.0
	Notes x1 TLCP				
20	1408890-001Amsd	1	below	19	1.0
	Notes x1 TLCP				
21	1408898-001D	1	below	20	1.0
	Notes x1 TLCP AQ				
22	1408899-001D	1	below	21	1.0
	Notes x1 TLCP AQ				
23	1408900-001A	1	below	22	1.0
	Notes x1 TLCP				
24	dftpp tune (2)	1	below	23	1.0
	Notes sv110-0601				
25	40ppm	1	below	24	1.0
	Notes sv110-0593				
26	lcs-14882	1	below	25	1.0
	Notes TCLP				
27	mb-14881	1	below	26	1.0
	Notes AQ				
28	lcs-14881	1	below	27	1.0
	Notes AQ				
29	lcsd-14881	1	below	28	1.0
	Notes AQ				
30	1408A13-001D	1	below	29	1.0
	Notes x1 AQ				
31	1408A13-003D	1	below	30	1.0
	Notes x1 AQ				
32	1408A13-004D	1	below	31	1.0
	Notes x1 AQ				
33	1408A13-005D	1	below	32	1.0
	Notes x1 AQ				

dam 8/22/14

re-ext — 1408A13-001D

re-ext — 1408A13-004D

	Notes x1 AQ				
35	1408A13-007D	1	below	34	1.0
	Notes x1 AQ				
36	1408A13-008D	1	below	35	1.0
	Notes x1 AQ				
37	1408A13-009D	1	below	36	1.0
	Notes x1 AQ				
38	1408A13-010D	1	below	37	1.0
	Notes x1 AQ				
39	1408A13-011D	1	below	38	1.0
	Notes x1 AQ				
40	1408A13-013D	1	below	39	1.0
	Notes x1 AQ				
41	1408A13-014D	1	below	40	1.0
	Notes x1 AQ				
42	1408914-001A	1	below	41	1.0
	Notes x1 soil				
43	1408914-003A	1	below	42	1.0
	Notes x1 soil				
44	1408914-007A	1	below	43	1.0
	Notes x1 soil				
45	mb-14892	1	below	44	1.0
	Notes x2 oil				
46	lcs-14892	1	below	45	1.0
	Notes x2 oil				
47	1408898-001C	1	below	46	1.0
	Notes x50 AQ				
48	1408898-001D	1	below	47	1.0
	Notes x5 TCLP AQ				

Directory for Data Files: C:\VarianWS\data

Data File Names: %s

Create and update a new RecalcList: c:\varianws\082114.rcl.

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Extraction Method 3540

Prep Start Date: 8/20/2014 10:32:50 Time Started: 12:00

Prep End Date: Time Ended: 6:00

Reviewed By: 8.21.14

Prep Batch ID: 14865 Prep Code: 8270SOX_PR Method No: 3540

Technician: Steve Crandell

Prep Factor Units: mL / g

Initial Temp: °C Final Temp °C

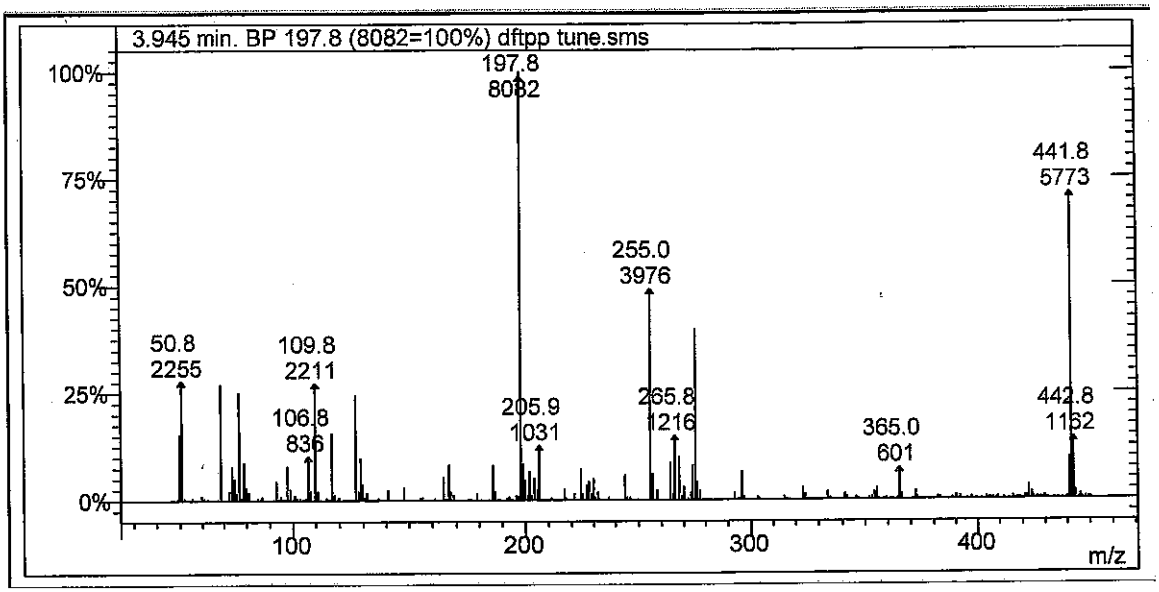
Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14865		Soil			30	0	0	1	0.033	8/20/2014	
LCS-14865		Soil			30	0	0	1	0.033	8/20/2014	
1408893-001A	FFOR-CF-0043	MeOH (Soil)			29.93 30	0	0	1	0.033	8/20/2014	8.21.14
1408893-002A	FFOR-CF-0044	MeOH (Soil)			30.18 30	0	0	1	0.033	8/20/2014	DCM
1408893-003A	FFOR-CF-0045	MeOH (Soil)			30.24 30	0	0	1	0.033	8/20/2014	4686
1408900-001A	Seep	Soil			29.55 30	0	0	+10mL	0.033	8/20/2014	
1408914-001A	13-006(700) B1@20'	Soil			30.16 30	0	0	1	0.033	8/20/2014	
1408914-003A	13-006(700) B3@20'	Soil			29.98 30	0	0	1	0.033	8/20/2014	
1408914-004A *	13-006(700) B4@20'	Soil	Client cancelled		30	0	0	1	0.033	8/20/2014	
1408914-006A	13-006(700) B6@15'	Soil			30.09 30	0	0	+10mL	0.033	8/20/2014	
1408914-007A	13-006(700) B7@20'	Soil			29.90 30	0	0	1	0.033	8/20/2014	
1408994-001A	FFOR-CF-0046	MeOH (Soil)			30.08 30	0	0	1	0.033	8/20/2014	
1408994-002A	FFOR-CF-0047	MeOH (Soil)			30.17 30	0	0	+2mL	0.033	8/20/2014	
1408994-001AMS		MeOH (Soil)			29.96 30	0	0	1	0.033	8/20/2014	
1408994-001AMSD		MeOH (Soil)			29.99 30	0	0	1	0.033	8/20/2014	

* deleted off workorder 8.20.14

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit
Chemical	4468	Ottawa Sand	14066	Container-01 of 01	0	mL
Chemical	4652	Sodium Sulfate	14934	Container-01 of 01	0	mL
Chemical	4686	Methylene Chloride	15093	Container-01 of 01	0	mL

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit
ST8270-14022	8270 Matrix Spike	LCS	25450	Container-01 of 01	500	µL
ST8270-14027	8270 Internal Standard	SAMP	25744	Container-01 of 01	20	µL
ST8270-14028	8270 BNA Surrogate	SAMP	25745	Container-01 of 01	500	µL

DFTPP 525.2 Report



Lab File ID: dftpp tune.sms

Injection Date: 8/21/2014

Injection Time: 8:20

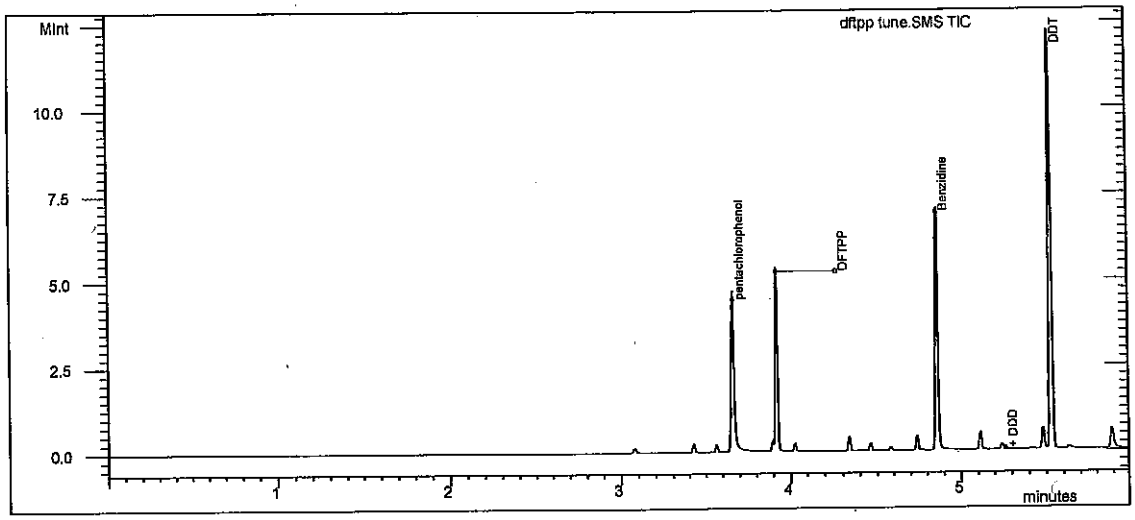
m/z	Acceptance Criterion	Value	Pass/Fail
51	10-80% of base peak	27.90	PASS
68	<2% of m/z 69	0.96	PASS
69	Present	27.06	PASS
70	<2% of m/z 69	0.05	PASS
127	10-80% of base peak	24.63	PASS
197	<2% of m/z 198	0.84	PASS
198	Base peak	100.00	PASS
199	5-9% of m/z 198	8.51	PASS
275	10-60% of base peak	39.79	PASS
365	>1% of base peak	7.44	PASS
441	Present and <m/z 443	66.70	PASS
442	>50% of m/z 198	71.43	PASS
443	15-24% of m/z 442	20.13	PASS

8-21-14

8/22/14

Degradation Report

Acquisition Date:	8/21/2014 8:20:59 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Operator Name:	John D Caldwell
Inj. Notes:	sv110-0601	Instrument ID:	Elmo



JC 8/21/14

Test

Compound Name	RT	Area	#
DDT	5.530	3.238E6	4

Degradation Product

Compound Name	RT	Area	#
DDD	5.262	12006	5
DDE	4.981	1075	6

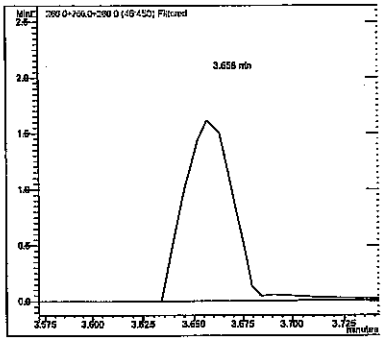
% Degradation of DDT : = .402

JDM 8/22/14

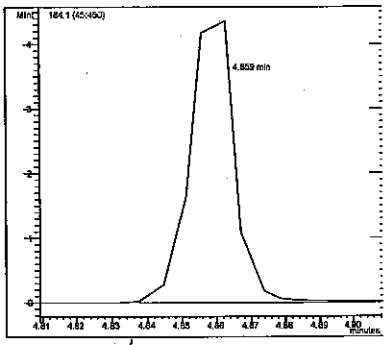
Tailing and Gaussian Factor Report

Acquisition Date:	8/21/2014 8:20:59 AM	Data File Name:	C:\VarianWS\data\dftpp tune.SMS
Inst. Method:	C:\VarianWS\Methods\dftpp.mth	Inj. Notes:	sv110-0601

pentachlorophenol
RT = 3.658 Area = 2.828E6



Benzidine
RT = 4.859 Area = 4.070E6



Compound Name	RT	TPF	GPF
pentachlorophenol	3.658	1.278	0.780
Benzidine	4.859	0.540	0.924

#	Compound Name	RT	Area
1	pentachlorophenol	3.658	2.828E6
3	Benzidine	4.859	4.070E6

JC 8/21/14

dam 8/22/14

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): c:\varianws\data\pending\042514crv\50ppm crv.sms Lab Sample ID: 50ppm crv

Instrument ID: ELMO Date Analyzed: 4/25/2014 Time Analyzed: 12:46

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	195627	5.20	671956	6.92	290413	9.52	605402	11.77	661621	15.79	885805	17.95
UPPER LIMIT	391254	5.70	1.344E6	7.42	580826	10.02	1.211E6	12.27	1.323E6	16.29	1.772E6	18.45
LOWER LIMIT	97814	4.70	335978	6.42	145207	9.02	302701	11.27	330811	15.29	442903	17.45
EPA SAMPLE NO												
30ppm	159822	5.18	507521	6.90	230097	9.50	428796	11.75	472982	15.77	599465	17.91

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

JC 8-21-14

dlm 8/22/14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No: SDG No:

Lab File ID (CONTROL): h:\elmo\data\2014\august 2014\082114\30ppm.SMS Lab Sample ID: 30ppm

Instrument ID: ELMO Date Analyzed: 8/21/2014 Time Analyzed: 09:04

GC Column: FactorFour ID: .25 (mm) Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
12 HOUR STD	159822	5.18	507521	6.90	230097	9.50	428796	11.75	472982	15.77	599465	17.91
UPPER LIMIT	319644	5.68	1.015E6	7.40	460194	10.00	857592	12.25	945964	16.27	1.199E6	18.41
LOWER LIMIT	79911	4.68	253761	6.40	115049	9.00	214398	11.25	236491	15.27	299733	17.41
EPA SAMPLE NO												
mb-14865	110143	5.18	354313	6.90	161741	9.49	324749	11.74	366666	15.76	451855	17.91
lcs-14865	120397	5.18	390368	6.89	173921	9.49	327759	11.74	384330	15.75	462419 D	17.90 D
1408893-00	82677	5.18	268532	6.90	124950	9.50	229454	11.75	261534	15.76	311798	17.91
1408893-00	91948	5.18	289155	6.90	125410	9.50	244176	11.75	279343	15.77	319588	17.92
1408893-00	95000	5.18	321918	6.90	134121	9.49	283121	11.74	326264	15.76	371231	17.91
1408994-00	92659	5.18	299080	6.90	127644	9.50	256242	11.74	297799	15.76	331462	17.91
1408994-00	96683	5.18	310184	6.90	128682	9.50	275778	11.74	320979	15.76	350949	17.91
1408994-00	95575	5.18	305871	6.90	138593	9.49	293711	11.74	342559	15.76	380219	17.91
1408994-00	89085	5.18	301194	6.90	128562	9.50	272862	11.74	281817	15.76	310816 D	17.91 D
1408898-00	94685	5.18	308586	6.90	116013	9.49	227003	11.74	255688	15.76	287192 *	17.91
1408899-00	80511	5.18	269177	6.90	123043	9.49	257466	11.74	310206	15.76	355055	17.91
1408901-00	59718 D	5.18 D	226314 D	6.90 D	130540 D	9.50 D	200220 D	11.75 D	246352	15.77	394722	17.92
1408898-00	106805	5.18	356872	6.90	140723	9.50	280656	11.75	347199	15.76	418439	17.92
1408901-00	101525	5.18	337585	6.91	148931	9.51	306426	11.75	372556	15.77	492814	17.92
mb-14882	111504	5.18	363342	6.90	157895	9.50	327162	11.75	379035	15.76	473444	17.91
1408890-00	89956	5.18	294965	6.90	126893	9.50	233763	11.75	276455	15.76	333654	17.92
1408890-00	98081	5.18	324339	6.90	131547	9.50	274025	11.74	317544	15.76	382646	17.91

Not reporting

✓ spec

✓ spec

A = NAR

8-22-14

8/22/14

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3		IS4		IS5		IS6	
1408890-00	96899	5.18	312118	6.90	133353	9.50	271562	11.75	293230	15.76	346977	17.91
1408898-00	81055	5.18	278664	6.90	128910	9.50	265536	11.75	334635	15.76	409196	17.92
1408899-00	67534 *	5.18	235716 *	6.90	106580 *	9.49	227854	11.74	278118	15.75	335626	17.90
1408900-00	92422	5.18	308198	6.90	138653	9.50	289056	11.75	320573	15.76	365508	17.91

* = NMR

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8 (I.S)
IS3 = Acenaphthene-d10 (I.S)
IS4 = Phenanthrene-d10
IS5 = Chrysene-d12 I.S
IS6 = Perylene-d12 I.S

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT =+0.50 minutes of internal standard RT
RT LOWER LIMIT =-0.50 minutes of internal standard RT
Column used to flag internal standard area values with an asterisk.
* Values outside QC limits.
D Indicates the peak is not "Identified".

JC 8.22.14

dam 8/22/14

SEMIVOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8270C

Lab Name: Hall Environmental Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Instrument ID: ELMO Continuing Cal. Sample Date: 8/21/2014 Time: 9:04

Heated Purge (Y/N): No Initial Cal. Sample Date: 4/25/2014 4/25/2014

GC Column: FactorFour ID: .25 (mm) Initial Cal. Sample Time: 14:14 14:14

Initial Calibration File: H:\Elmo\data\2014\April 2014\042514CRV\50ppm crv.SMS

Lab File ID: c:\varianws\data\30ppm.sms

RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))

JC 8-21-14

JdM 8/22/14

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
N-nitrosodimethylamine	3.838	0.050	30.00	35.75	-19.2	40.0	PASS	PASS
Pyridine	10.764	0.050	30.00	34.89	-16.3	40.0	PASS	PASS
2-Fluorophenol	1.120	0.050	30.00	29.27	2.4	40.0	PASS	PASS
Phenol-d5	1.074	0.050	30.00	29.63	1.2	40.0	PASS	PASS
Phenol	1.112	0.050	30.00	27.08	9.7	20.0	PASS	PASS
Aniline	3.680	0.050	30.00	27.10	9.7	40.0	PASS	PASS
Bis(2-chloroethyl)ether	1.923	0.050	30.00	27.79	7.4	40.0	PASS	PASS
2-Chlorophenol	1.172	0.050	30.00	29.43	1.9	40.0	PASS	PASS
1,3-Dichlorobenzene	1.475	0.050	30.00	29.18	2.7	40.0	PASS	PASS
1,4-Dichlorobenzene	1.483	0.050	30.00	30.92	-3.1	20.0	PASS	PASS
Benzyl alcohol	1.159	0.050	30.00	30.38	-1.3	40.0	PASS	PASS
1,2-Dichlorobenzene	1.422	0.050	30.00	29.97	0.1	40.0	PASS	PASS
2-Methylphenol	0.967	0.050	30.00	29.64	1.2	40.0	PASS	PASS
Bis(2-chloroisopropyl)ether	1.174	0.050	30.00	25.34	15.5	40.0	PASS	PASS
3+4-Methylphenol	1.111	0.050	30.00	26.44	11.9	40.0	PASS	PASS
N-Nitrosodi-n-propylamine	3.438	0.050	30.00	28.96	3.5	40.0	PASS	PASS
Hexachloroethane	4.630	0.050	30.00	29.91	0.3	40.0	PASS	PASS
Nitrobenzene-d5	0.315	0.050	30.00	30.16	-0.5	40.0	PASS	PASS
Nitrobenzene	0.320	0.050	30.00	29.66	1.1	40.0	PASS	PASS
Isophorone	0.657	0.050	30.00	33.58	-11.9	40.0	PASS	PASS
2-Nitrophenol	0.312	0.050	30.00	30.19	-0.6	20.0	PASS	PASS
2,4-Dimethylphenol	0.352	0.050	30.00	28.90	3.7	40.0	PASS	PASS
Benzoic acid	2.117	0.050	30.00	31.76	-5.9	40.0	PASS	PASS
Bis(2-chloroethoxy)methane	0.397	0.050	30.00	32.97	-9.9	40.0	PASS	PASS
2,4-Dichlorophenol	0.355	0.050	30.00	30.23	-0.8	20.0	PASS	PASS
1,2,4-Trichlorobenzene	0.323	0.050	30.00	29.30	2.3	40.0	PASS	PASS
Naphthalene	0.852	0.050	30.00	30.68	-2.3	40.0	PASS	PASS
4-Chloroaniline	0.381	0.050	30.00	30.23	-0.8	40.0	PASS	PASS
Hexachlorobutadiene	0.640	0.050	30.00	28.74	4.2	20.0	PASS	PASS
4-Chloro-3-methylphenol	0.410	0.050	30.00	29.33	2.2	20.0	PASS	PASS
2-Methylnaphthalene	0.236	0.050	30.00	28.05	6.5	40.0	PASS	PASS
1-Methylnaphthalene	0.226	0.050	30.00	26.36	12.1	40.0	PASS	PASS
Hexachlorocyclopentadiene	0.440	0.050	30.00	26.03	13.2	40.0	PASS	PASS
2,4,6-Trichlorophenol	0.313	0.050	30.00	26.67	11.1	20.0	PASS	PASS
2,4,5-Trichlorophenol	0.296	0.050	30.00	26.86	10.5	40.0	PASS	PASS
2-Fluorobiphenyl	1.530	0.050	30.00	30.30	-1.0	40.0	PASS	PASS

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D	CCC	SPCC
2-Chloronaphthalene	1.547	0.050	30.00	29.81	0.6	40.0	PASS	PASS
2-Nitroaniline	1.072	0.050	30.00	28.84	3.9	40.0	PASS	PASS
Dimethyl phthalate	2.927	0.050	30.00	30.42	-1.4	40.0	PASS	PASS
2,6-Dinitrotoluene	0.686	0.050	30.00	29.86	0.5	40.0	PASS	PASS
Acenaphthylene	1.870	0.050	30.00	28.88	3.7	40.0	PASS	PASS
3-Nitroaniline	1.060	0.050	30.00	29.34	2.2	40.0	PASS	PASS
Acenaphthene	1.185	0.050	30.00	28.15	6.2	20.0	PASS	PASS
2,4-Dinitrophenol	2.227	0.050	30.00	35.68	-18.9	40.0	PASS	PASS
4-Nitrophenol	0.206	0.050	30.00	32.41	-8.0	40.0	PASS	PASS
Dibenzofuran	0.761	0.050	30.00	24.99	16.7	40.0	PASS	PASS
2,4-Dinitrotoluene	0.323	0.050	30.00	26.19	12.7	40.0	PASS	PASS
Diethyl phthalate	2.485	0.050	30.00	28.61	4.6	40.0	PASS	PASS
4-Chlorophenyl phenyl ether	0.662	0.050	30.00	22.96	23.5	40.0	PASS	PASS
Fluorene	2.283	0.050	30.00	26.65	11.2	40.0	PASS	PASS
4-Nitroaniline	1.898	0.050	30.00	29.76	0.8	40.0	PASS	PASS
4,6-Dinitro-2-methylphenol	1.489	0.050	30.00	40.01	-33.4	40.0	PASS	PASS
N-Nitrosodiphenylamine	0.660	0.050	30.00	30.30	-1.0	20.0	PASS	PASS
Azobenzene	0.993	0.050	30.00	31.63	-5.4	40.0	PASS	PASS
2,4,6-Tribromophenol	1.706	0.050	30.00	31.08	-3.6	40.0	PASS	PASS
4-Bromophenyl phenyl ether	0.515	0.050	30.00	30.14	-0.5	40.0	PASS	PASS
Hexachlorobenzene	0.518	0.050	30.00	27.90	7.0	40.0	PASS	PASS
Pentachlorophenol	1.502	0.050	30.00	33.33	-11.1	20.0	PASS	PASS
Phenanthrene	0.973	0.050	30.00	30.32	-1.1	40.0	PASS	PASS
Anthracene	1.006	0.050	30.00	31.13	-3.8	40.0	PASS	PASS
Carbazole	0.933	0.050	30.00	29.63	1.2	40.0	PASS	PASS
Di-n-butyl phthalate	2.192	0.050	30.00	32.14	-7.1	40.0	PASS	PASS
Fluoranthene	0.917	0.050	30.00	29.70	1.0	20.0	PASS	PASS
Benzidine	0.609	0.050	30.00	33.65	-12.2	40.0	PASS	PASS
Pyrene	0.816	0.050	30.00	31.01	-3.4	40.0	PASS	PASS
4-Terphenyl-d14	1.105	0.050	30.00	28.44	5.2	40.0	PASS	PASS
Butyl benzyl phthalate	1.000	0.050	30.00	31.81	-6.0	40.0	PASS	PASS
3,3'-Dichlorobenzidine	1.885	0.050	30.00	31.66	-5.5	40.0	PASS	PASS
Benz[a]anthracene	1.520	0.050	30.00	26.15	12.8	40.0	PASS	PASS
Bis(2-ethylhexyl)phthalate	0.910	0.050	30.00	23.77	20.8	40.0	PASS	PASS
Chrysene	2.098	0.050	30.00	31.20	-4.0	40.0	PASS	PASS
Di-n-octyl phthalate	2.568	0.050	30.00	33.31	-11.0	20.0	PASS	PASS
Benzo(b)fluoranthene	1.509	0.050	30.00	31.57	-5.2	40.0	PASS	PASS
Benzo[k]fluoranthene	1.595	0.050	30.00	33.17	-10.6	40.0	PASS	PASS
Benzo[a]pyrene	1.466	0.050	30.00	32.76	-9.2	20.0	PASS	PASS
Indeno[1,2,3-cd]pyrene	0.846	0.050	30.00	30.22	-0.7	40.0	PASS	PASS
Dibenz[a,h]anthracene	0.872	0.050	30.00	36.21	-20.7	40.0	PASS	PASS
Benzo[g,h,i]perylene	0.851	0.050	30.00	30.50	-1.7	40.0	PASS	PASS

JC 8-21-14

dam 8/22/14

8/21/14

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: **1408893**
Date Reported:

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB
Lab Order: 1408893

Lab ID: 1408893-001 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0043 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	12 ✓	0.29		mg/Kg-dry	1	14835	8/20/2014 8:02:40 AM

Lab ID: 1408893-002 **Collection Date:** 8/18/2014 1:28:00 PM
Client Sample ID: FFOR-CF-0044 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	15 ✓	0.27		mg/Kg-dry	1	14835	8/20/2014 8:14:04 AM

Lab ID: 1408893-003 **Collection Date:** 8/18/2014 1:39:00 PM
Client Sample ID: FFOR-CF-0045 **Matrix:** MEOH (SOIL)

Analyses	Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Comment: DUE 08/21/2014							
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**
Lead	3.4 ✓	0.26		mg/Kg-dry	1	14835	8/20/2014 8:16:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

PRELIMINARY

Hall Environmental Analysis Laboratory

PREP BATCH REPORT

Analyst/Date: MD 8/19/14

QA'd/Date: DO 8/22/14

Prep Start Date: **8/19/2014 9:52:11 A**
Prep End Date:

Prep Batch ID: **14835** Prep Code: **3050** Technician: **Mikaela Dicome**

Prep Factor Units: **mL / g**

Initial Temp: **°C** Final Temp **°C**

Sample ID	ClientSampleID	Matrix	pH1	pH2	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-14835		Soil			1.0359	0	0	50	50.000	8/19/2014	
LCS-14835		Soil			1.0058	0	0	50	50.000	8/19/2014	
1408468-001B	1a&1b West Wall	MeOH (Soil)			1.9870	0	0	50	50.000	8/19/2014	
1408468-002B	North Wall 1a&1b	MeOH (Soil)			1.9040	0	0	50	50.000	8/19/2014	
1408468-003B	Perimeter of Site 1a&1	MeOH (Soil)			1.0359	0	0	50	50.000	8/19/2014	
1408468-004B	Center of Pit 1a&1b	MeOH (Soil)			1.9893	0	0	50	50.000	8/19/2014	
1408468-005B	South Wall	MeOH (Soil)			1.9013	0	0	50	50.000	8/19/2014	
1408468-006B	East Wall	MeOH (Soil)			1.9639	0	0	50	50.000	8/19/2014	
1408827-002A	200401430/DEWCAK	Sludge			1.0111	0	0	50	50.000	8/19/2014	
1408893-001A	FFOR-CF-0043	MeOH (Soil)			1.9754	0	0	50	50.000	8/19/2014	
1408893-001AMS		MeOH (Soil)			1.9978	0	0	50	50.000	8/19/2014	
1408893-001AMSD		MeOH (Soil)			1.0008	0	0	50	50.000	8/19/2014	
1408893-002A	FFOR-CF-0044	MeOH (Soil)			1.0404	0	0	50	50.000	8/19/2014	
1408893-003A	FFOR-CF-0045	MeOH (Soil)			1.0304	0	0	50	50.000	8/19/2014	

Type	Chemical / Reagent ID	Chemical / Reagent Name	Container#	Container ID	Amount Added	Amount Unit

Spike ID	Spike Name	Samp Type	Container#	Container ID	Amount Added	Amount Unit

METALS DIGESTION SUMMARY

200.2-200.8	3005	3050	3010	WIPES
Prep ID:	Prep ID:	Prep ID:	Prep ID:	Prep ID:
		14835		

Chemicals/Reagents:

200.2-200.8		3005		3050		3010		WIPES	
	Tubes /		Tubes /	4707	Tubes 2/2		Tubes /		Tubes /
	HNO_3 /		HNO_3 /	4731	HNO_3 1/3		HNO_3 /		HNO_3 /
	1:1 HCl /		HCl /	4677	HCl 1/5		HCl /		HCl /
	Filters /		Filters /	4724	Filters 3/3		Filters /		Filters /
				4684	H_2O_2 1/1		TCLP Fluid /		EE Wipes /
				4619	Teflon Chips 1/1		TCLP Fluid /		

Standards:

ST6020 -	Exp:	ST6010 - 14139	Exp: 3/31/15		Exp:
ST6020 -	Exp:	ST6010 - 14257	Exp: 3/31/15		Exp:

Digestion Temp Info: (in a 5% HNO_3 solution)

☐ Uncovered ☒ Covered	☐ Uncovered ☐ Covered
Digestion Block: Tawah	Digestion Block:
Position: D4	Position:
Therm ID: DBT-22	Therm ID:
Calibration Exp: 8/9/15	Calibration Exp:
Temp: 90.6°C	Temp: °C
CF: -0 °C	CF: °C
Corr. Temp: = 90.6°C	Corr. Temp: = °C
Analyst: MD	Analyst:
Date/Time: 8/19/14 14:43	Date/Time:

Pipette Calibration Info: (Wt. of DI must be within ±2% of desired volume.)

125µL	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:
	Acceptable range: 0.1225g - 0.1275g			
500µL	Pipette No.: P13	Wt. DI (g): 0.5008 ~~0.5019~~	Rm Temp (°C): 21.5	Analyst: MD
	Acceptable range: 0.4900g - 0.5100g			
250µL	Pipette No.: P15	Wt. DI (g): 0.2517	Rm Temp (°C): ↓	Analyst: ↓
	Pipette No.:	Wt. DI (g):	Rm Temp (°C):	Analyst:

Analyst/Date: MD 8/19/14 QA'd/Date: DBO 8/22/14

This Document Has Been Approved for Use at HEAL on 5/23/2014 by: AF and CMS

Run No.: 20674

ICP-OES Analysis Summary

Data Imported By: EL 8/20/14

*All notations contained in data packet have been made by importing analyst, unless otherwise specified.

Instrument: 1515

Results Data Set: 082014 B14945 Prep Batch ID: 14848

Calibration

	Standard ID
ST1	ST6010- 14357
ST2	ST6010- 14354
ST3 (CCV)	ST6010- 14355
ST4	ST6010- 14356

	Standard ID
10% ST5	ST6010- 14357
ST6	ST6010-
ST7 (CCV CAT)	ST6010- EL 8/20/14
ST8	ST6010-

	Standard ID
10% ICV	ST6010- 14362
ICV CAT	ST6010- N/A
ICS ELEM	ST6010- 14371
ICS	ST6010- 14372

Internal Standard

Standard ID: ST6010- 14350

2% Nitric Acid

Reagent ID: 1393/1433

LCS/MS/MSD

☑ See Prep Batch

	Standard ID	Standard Name	Spike Volume	Final Volume
1	ST6010-	Custom Spike 1101	100µL	10mL
2	ST6010-	Cations	100µL	10mL
3	ST6010-			
4	ST6010-			

Pipette Calibration Check (DI wt. must be within ± 2% of spike volume.)

Pipette No: P02	Spike Volume: 50µL	Wt DI (g): 0.0503	Rm Temp (°C): 21.5	Analyst: EL	
Pipette No: P30	Spike Volume: 500µL	Wt DI (g): 0.5076	Rm Temp (°C): 21.5	Analyst: EL	
Pipette No: P35	Spike Volume: 1mL	Wt DI (g): 1.0103	Rm Temp (°C): 21.5	Analyst: EL	
Pipette No:	Spike Volume:	Wt DI (g):	Rm Temp (°C):	Analyst:	

Hand Calculation (Formulas can be found in the SOP of respective analytical test.)

Element	Sample ID	Raw Result	Initial Vol/Weight	Final Volume	Dil Factor	Result ✓	Unit
SE	1408919-001A	0.72189	50mL	50mL	5x	3.60945	mg/L

Element	Sample ID	Result	Duplicate Result	Expected Result	%RPD	%Recovery

Dry-Wt

Element	Sample ID	Reported Result	PMoist

Dry-Wt calculation: $\frac{\text{Reported Result}}{1-\left(\frac{\text{PMoist}}{100}\right)}$ = Result: _____ mg/Kg-dry

Hardness

Sample ID	Reported Ca Result	Reported Mg Result

Hardness calculation: 2.497 x CaResult + 4.118 x MgResult = Result: _____ mg/L

Analyst/Date: EL 8/20/14 Qa'd by/Date: 08/21/14

This Document Has Been Approved For Use at HEAL on 12/16/2013 by: ~~and~~.

Metals_Total
Metals_Diss
Metals_Soil
Metals_TCLP
Metals_Wipe
200.7_Diss
200.7_Total
200.7

Sample Information Detail Report
Document Name: 082014 B14845

File Description
Hall Design

Parameters Common to All Samples

Batch ID	082014 B14845
Analyst Name	ERIC
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	SampType
1	301	MB-14835	MBLK
2	302	LCS-14835	LCS
3	303	MB-14846	MBLK
4	304	LCS-14846	LCS
5	305	MB-14845	MBLK
6	306	LCS-14845	LCS
7	307	1408919-001A 5X	SAMP
8	308	1408919-001AMS 5X	MS
9	309	1408919-001AMSD 5X	MSD
10	310	1408919-002A	SAMP
11	311	1408786-001A	SAMP
12	312	1408786-002A	SAMP
13	313	1408786-002AMS	MS
14	314	1408786-002AMSD	MSD
15	315	1408833-001A	SAMP
16	316	1408833-002A	SAMP
17	317	1408468-001B	SAMP
18	318	1408468-001B 2X	SAMP
19	319	1408468-002B	SAMP
20	320	1408468-002B 2X	SAMP
21	321	1408468-003B	SAMP
22	322	1408468-003B 2X	SAMP
23	323	1408468-004B	SAMP
24	324	1408468-004B 2X	SAMP
25	325	1408468-005B	SAMP
26	326	1408468-005B 2X	SAMP
27	327	1408468-006B	SAMP
28	328	1408468-006B 2X	SAMP
29	329	1408893-001A	SAMP
30	330	1408893-001AMS	MS
31	331	1408893-001AMSD	MSD
32	332	1408893-001A 2X	SAMP
33	333	1408893-001AMS 2X	MS
34	334	1408893-001AMSD 2X	MSD
35	335	1408893-002A	SAMP
36	336	1408893-002A 2X	SAMP
37	337	1408893-003A	SAMP
38	338	1408893-003A 2X	SAMP
39	339	1408827-002A	SAMP
40	340	1408827-002A 2X	SAMP
42	341	1408468-006B 5X	SAMP
43	342	1408893-001APS	SAMP

Sample No	TestCode	Matrix Check Sample	Aliquot Volume
1	METALS_SOIL		
2	METALS_SOIL	Recovery 1 of 1	
3	METALS_TCLP		
4	METALS_TCLP	Recovery 1 of 3	
5	NAVAJO_TOTAL METALS		
6	NAVAJO_TOTAL METALS	Recovery 1 of 5	
7	NAVAJO_TOTAL METALS		
8	NAVAJO_TOTAL METALS	Recovery 1 of 7	
9	NAVAJO_TOTAL METALS	Recovery 1 of 7	
10	NAVAJO_TOTAL METALS		

11	METALS_TCLP	
12	METALS_TCLP	
13	METALS_TCLP	Recovery 1 of 12
14	METALS_TCLP	Recovery 1 of 12
15	METALS_TCLP	
16	METALS_TCLP	
17	METALS_SOIL	
18	METALS_SOIL	
19	METALS_SOIL	
20	METALS_SOIL	
21	METALS_SOIL	
22	METALS_SOIL	
23	METALS_SOIL	
24	METALS_SOIL	
25	METALS_SOIL	
26	METALS_SOIL	
27	METALS_SOIL	
28	METALS_SOIL	
29	METALS_SOIL	
30	METALS_SOIL	Recovery 1 of 29
31	METALS_SOIL	Recovery 1 of 29
32	METALS_SOIL	
33	METALS_SOIL	Recovery 1 of 32
34	METALS_SOIL	Recovery 1 of 32
35	METALS_SOIL	
36	METALS_SOIL	
37	METALS_SOIL	
38	METALS_SOIL	
39	METALS_SOIL	
40	METALS_SOIL	
42	METALS_SOIL	
43	METALS_SOIL	

Sample No	Diluted To Vol.	Initial Sample Wt.	Sample Prep. Vol.
1			
2			
3			
4			
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43

Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
1	1		Calib Blank 1	Applied
2	408		ST1	Applied
3	409		ST2	Applied
4	2		ST3	Applied
5	410		ST4	Applied
6	413		ST5	Applied
7	411		ST6	
8	3		ST7	
9	412		ST8	
10	401	QC	ICV	QC Passed
11	402	QC	ICV CAT	
12	1	QC	ICB	QC Passed
13	408	QC	PQL CHECK	QC Passed
14	403	QC	ICS ELEM	QC Passed
15	404	QC	ICS	QC Passed
16	301		MB-14835	Analyzed
17	302		LCS-14835	Analyzed
18	303		MB-14846	Analyzed
19	304		LCS-14846	Analyzed
20	305		MB-14845	Analyzed
21	306		LCS-14845	Analyzed
22	307		1408919-001A 5X	Analyzed
23	308		1408919-001AMS 5X	Analyzed
24	309		1408919-001AMSD 5X	Analyzed
25	310		1408919-002A	Analyzed
26	2	QC	CCV	QC Passed
27	1	QC	CCB	QC Passed
28	3	QC	CCV CAT	
29	311		1408786-001A	Samp Limit Failed
30	312		1408786-002A	Analyzed
31	313		1408786-002AMS	Analyzed
32	314		1408786-002AMSD	Analyzed
33	315		1408833-001A	Analyzed
34	316		1408833-002A	Analyzed
35	317		1408468-001B	Samp Limit Failed
36	318		1408468-001B 2X	Samp Limit Failed
37	319		1408468-002B	IS Check Failed
38	320		1408468-002B 2X	Analyzed
39	2	QC	CCV	QC Passed
40	1	QC	CCB	QC Passed
41	3	QC	CCV CAT	Analyzed
42	321		1408468-003B	Samp Limit Failed
43	322		1408468-003B 2X	Analyzed
44	323		1408468-004B	Samp Limit Failed
45	324		1408468-004B 2X	Analyzed
46	325		1408468-005B	Samp Limit Failed
47	326		1408468-005B 2X	Analyzed
48	327		1408468-006B	IS Check Failed
49	328		1408468-006B 2X	Analyzed
50	329		1408893-001A	Analyzed
51	330		1408893-001AMS	Analyzed
52	2	QC	CCV	QC Passed
53	1	QC	CCB	QC Passed
54	3	QC	CCV CAT	Analyzed
55	331		1408893-001AMSD	Analyzed

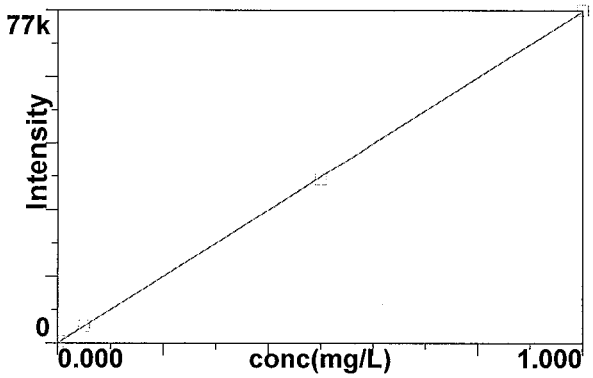
Analytical Sequence

Method : ISIS 080714 6010SOIL

Seq.	Loc.		Sample ID	Status
56	332		1408893-001A 2X	Analyzed
57	333		1408893-001AMS 2X	Analyzed
58	334		1408893-001AMSD 2X	Analyzed
59	335		1408893-002A	Analyzed
60	336		1408893-002A 2X	Samp Limit Failed
61	337		1408893-003A	Analyzed
62	338		1408893-003A 2X	Analyzed
63	339		1408827-002A	Analyzed
64	340		1408827-002A 2X	Analyzed
65	2	QC	CCV	QC Passed
66	1	QC	CCB	QC Passed
67	3	QC	CCV CAT	Analyzed
68	341		1408468-006B 5X	Analyzed
69	342		1408893-001APS	Analyzed
70	2	QC	CCV	QC Passed
71	1	QC	CCB	QC Passed
72	3	QC	CCV CAT	
73	7	QC	DI RINSE	QC Passed

Method: ISIS 080714 6010SOIL
Result: 082014 B14845

Ag 328.068

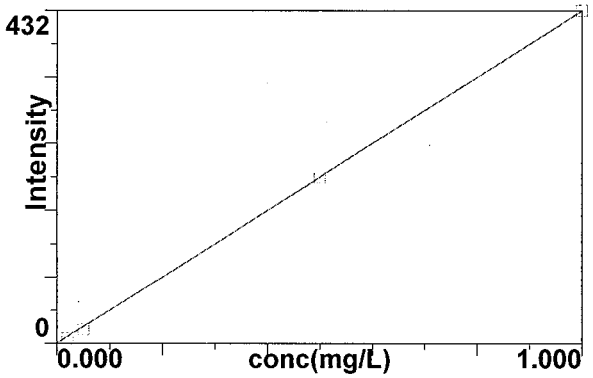


1

Al 396.153

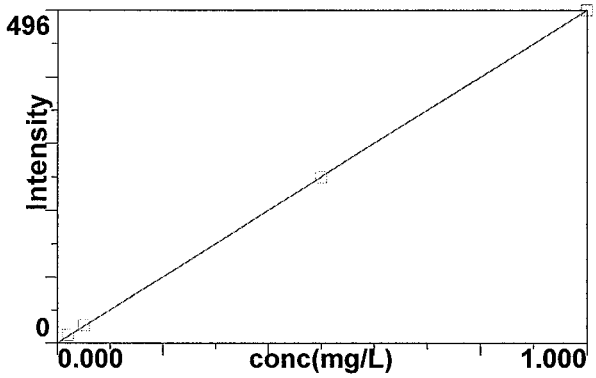
2

As 188.979



3

As 193.696



4

B 249.772

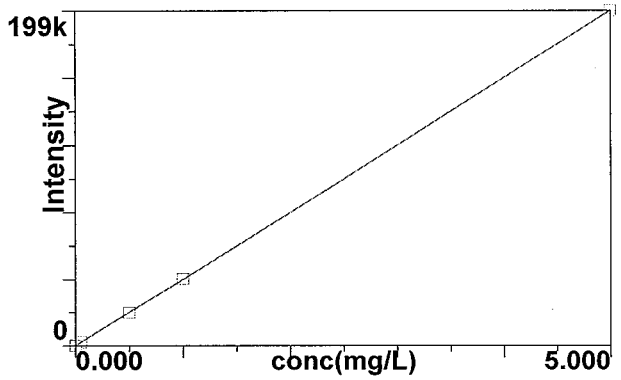
5

B 249.677

6

Method: ISIS 080714 6010SOIL
Result: 082014 B14845

Ba 233.527



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999998

7

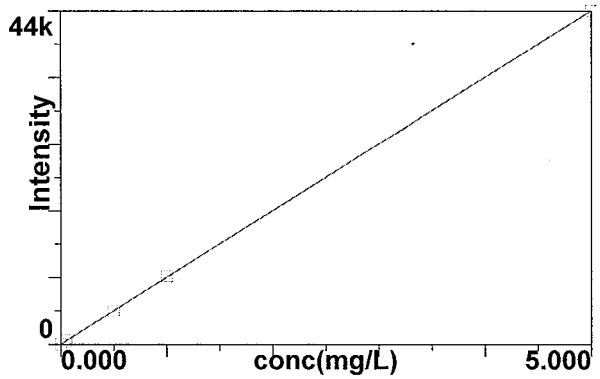
Be 313.107

8

Ca 317.933

9

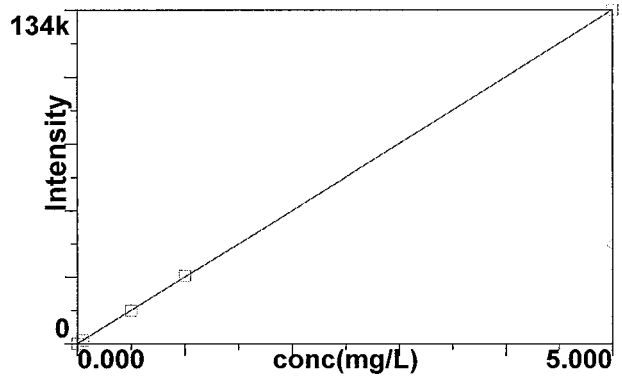
Cd 228.802



Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

10

Cd 226.502



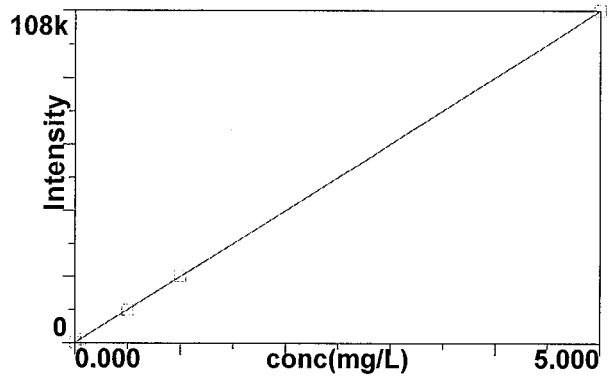
Calib Eq'n: Lin Thru 0
Corr Coeff: 0.999996

11

Co 228.616

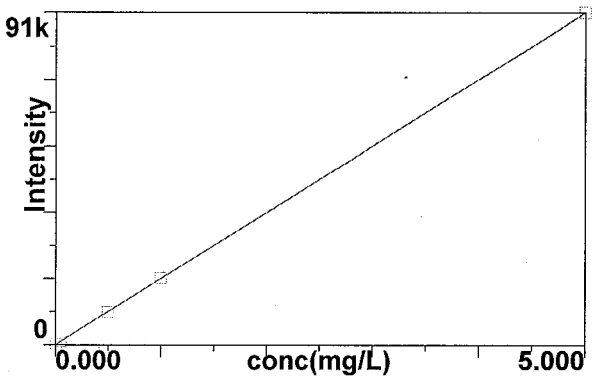
12

Cr 267.716



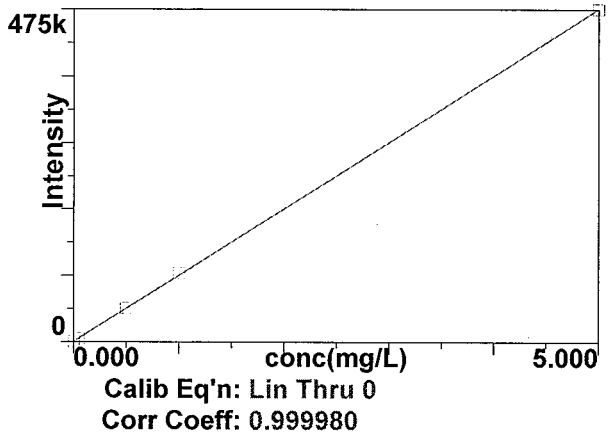
13

Cr 205.560



14

Cu 324.752



15

Fe 238.204

16

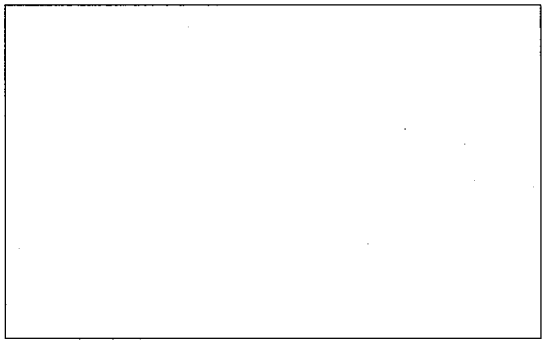
K 766.490

17

Mg 285.213

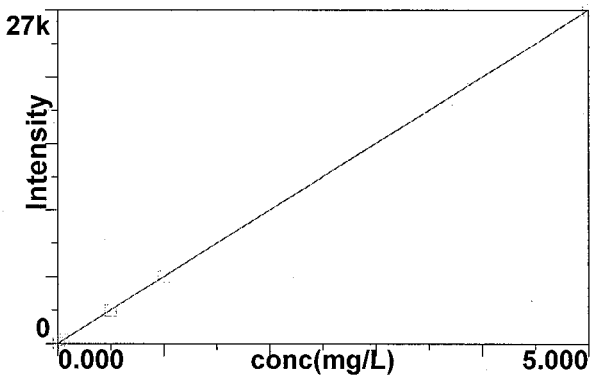
18

Mn 257.610



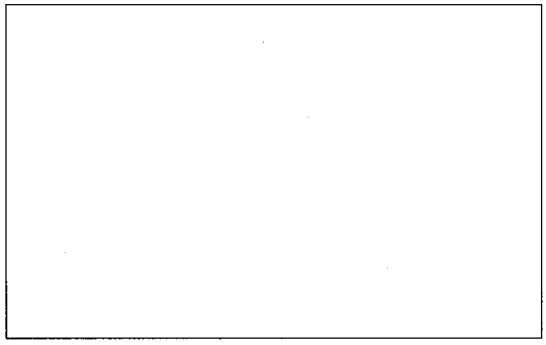
19

Mo 202.031



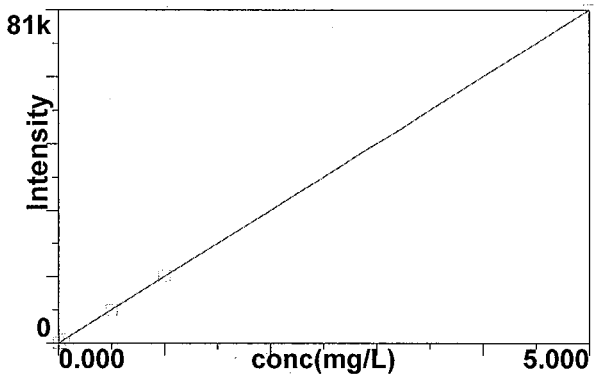
20

Na 589.592



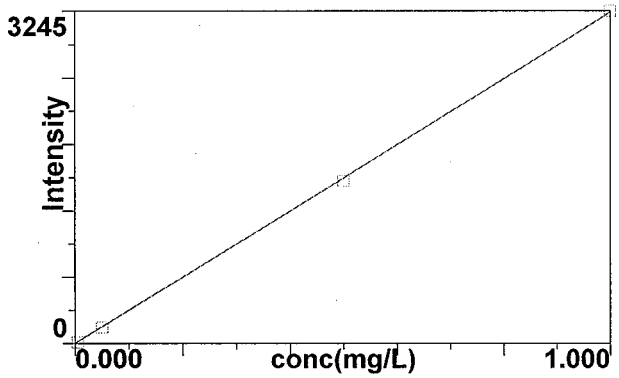
21

Ni 231.604



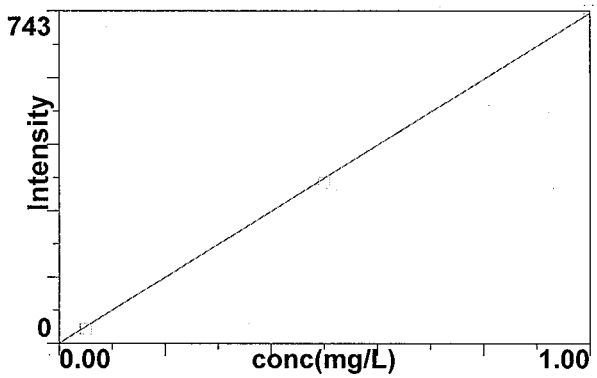
22

Pb 220.353



23

Pb 217.000

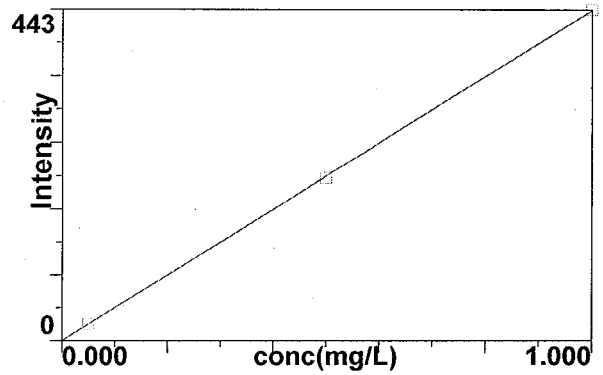


24

Sb 206.836

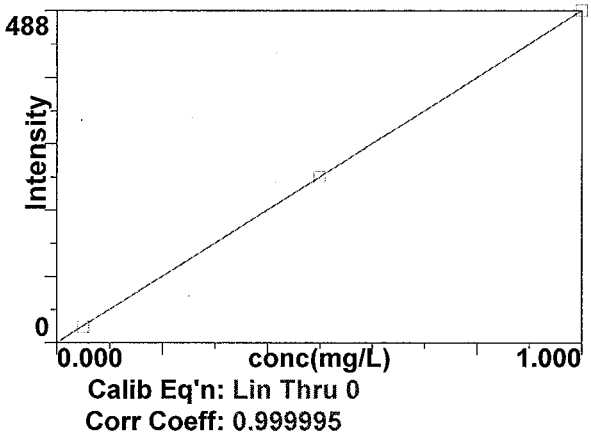
25

Se 203.985



26

Se 196.026



27

Si 212.412

28

Sn 189.927

29

Ti 334.940

30

Tl 190.801

31

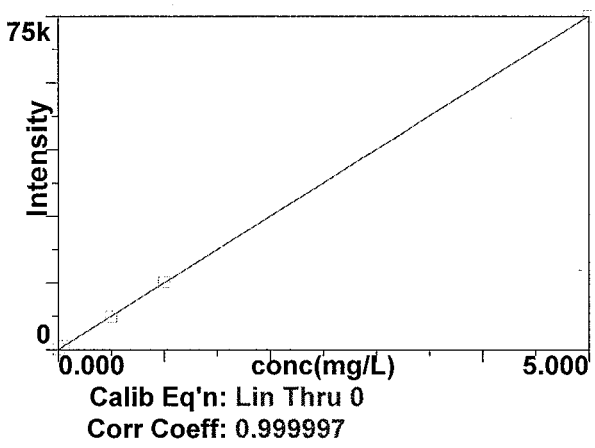
U 385.958

32

V 292.402

33

Zn 206.200



36

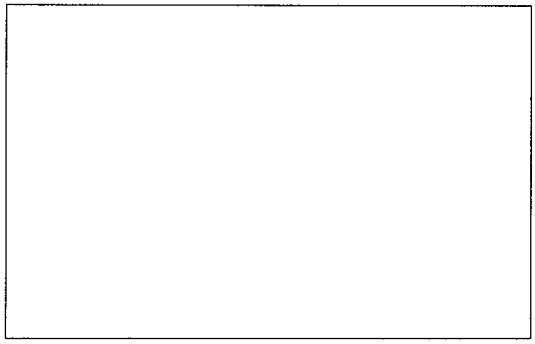
Sr 421.552

37

Sr 421.552 R

38

U 424.167



39

Analysis Begun

Start Time: 8/20/2014 7:07:28 AM
Logged In Analyst: inorg
Spectrometer: Optima 4300 DV, S/N 077N1091501
Plasma On Time: 8/20/2014 6:06:14 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082014 B14845.sif
Batch ID: 082014 B14845
Results Data Set: 082014 B14845
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 8/20/2014 7:07:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	543567.4	3914.76	0.72%	100.00	%
Ag 328.068†	51.3	16.21	31.59%	[0.00]	mg/L
As 188.979†	11.9	1.66	13.99%	[0.00]	mg/L
As 193.696†	-7.3	4.10	56.17%	[0.00]	mg/L
Ba 233.527†	16.2	8.31	51.16%	[0.00]	mg/L
Cd 228.802†	-17.4	3.85	22.16%	[0.00]	mg/L
Cd 226.502†	36.0	5.56	15.44%	[0.00]	mg/L
Cr 267.716†	-8.6	4.43	51.46%	[0.00]	mg/L
Cr 205.560†	-24.9	19.16	76.92%	[0.00]	mg/L
Cu 324.752†	-2610.0	9.85	0.38%	[0.00]	mg/L
Mo 202.031†	-4.7	4.13	87.95%	[0.00]	mg/L
Ni 231.604†	-71.8	10.05	14.00%	[0.00]	mg/L
Pb 220.353†	-19.3	6.86	35.58%	[0.00]	mg/L
Pb 217.000†	7.1	2.03	28.53%	[0.00]	mg/L
Se 203.985†	6.7	9.78	145.82%	[0.00]	mg/L
Se 196.026†	-20.3	5.32	26.18%	[0.00]	mg/L
Zn 206.200†	0.9	3.57	402.40%	[0.00]	mg/L

Sequence No.: 2
Sample ID: ST1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20
Autosampler Location: 408
Date Collected: 8/20/2014 7:08:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ST1

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: ST1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	533732.1	2777.48	0.52%	98.191	%
Ag 328.068†	370.1	26.28	7.10%	[0.005]	mg/L
As 188.979†	6.1	1.80	29.38%	[0.02]	mg/L
As 193.696†	12.0	5.42	45.38%	[0.02]	mg/L
Ba 233.527†	80.3	6.95	8.65%	[0.002]	mg/L

Cd 228.802†	18.2	1.53	8.44%	[0.002] mg/L
Cd 226.502†	47.9	2.13	4.44%	[0.002] mg/L
Cr 267.716†	141.2	3.76	2.67%	[0.006] mg/L
Cr 205.560†	101.9	17.08	16.75%	[0.006] mg/L
Cu 324.752†	525.7	19.50	3.71%	[0.006] mg/L
Mo 202.031†	45.4	5.38	11.85%	[0.008] mg/L
Ni 231.604†	93.0	7.90	8.49%	[0.005] mg/L
Pb 220.353†	10.2	1.21	11.79%	[0.005] mg/L
Zn 206.200†	94.0	4.69	4.99%	[0.005] mg/L

Sequence No.: 3 **Autosampler Location: 409**
Sample ID: ST2 **Date Collected: 8/20/2014 7:10:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST2

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: ST2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	540930.9	3466.41	0.64%	99.515	%
Ag 328.068†	3848.6	46.70	1.21%	[0.05]	mg/L
As 188.979†	17.8	1.60	8.97%	[0.050]	mg/L
As 193.696†	26.3	2.66	10.11%	[0.050]	mg/L
Ba 233.527†	2034.7	14.82	0.73%	[0.05]	mg/L
Cd 228.802†	444.6	5.80	1.31%	[0.05]	mg/L
Cd 226.502†	1363.3	9.75	0.71%	[0.05]	mg/L
Cr 267.716†	1108.4	11.69	1.05%	[0.05]	mg/L
Cr 205.560†	938.8	13.60	1.45%	[0.05]	mg/L
Cu 324.752†	4810.3	31.73	0.66%	[0.050]	mg/L
Mo 202.031†	273.5	5.73	2.09%	[0.050]	mg/L
Ni 231.604†	819.8	11.87	1.45%	[0.05]	mg/L
Pb 220.353†	155.3	3.00	1.93%	[0.05]	mg/L
Pb 217.000†	32.8	1.58	4.83%	[0.05]	mg/L
Se 203.985†	22.4	2.67	11.92%	[0.050]	mg/L
Se 196.026†	22.8	8.00	35.07%	[0.050]	mg/L
Zn 206.200†	766.4	5.28	0.69%	[0.05]	mg/L

Sequence No.: 4 **Autosampler Location: 2**
Sample ID: ST3 **Date Collected: 8/20/2014 7:11:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST3

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: ST3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	552823.5	3128.71	0.57%	101.70	%
Ag 328.068†	37633.9	44.10	0.12%	[0.50]	mg/L
As 188.979†	215.9	4.11	1.90%	[0.50]	mg/L
As 193.696†	247.7	6.60	2.67%	[0.50]	mg/L
Ba 233.527†	19625.8	79.23	0.40%	[0.50]	mg/L
Cd 228.802†	4360.7	55.47	1.27%	[0.50]	mg/L
Cd 226.502†	13258.7	60.48	0.46%	[0.50]	mg/L
Cr 267.716†	10686.5	23.80	0.22%	[0.50]	mg/L

Cr 205.560†	9004.8	99.54	1.11%	[0.50] mg/L
Cu 324.752†	48131.2	58.34	0.12%	[0.50] mg/L
Mo 202.031†	2635.8	21.34	0.81%	[0.50] mg/L
Ni 231.604†	8013.6	104.82	1.31%	[0.50] mg/L
Pb 220.353†	1588.8	26.24	1.65%	[0.50] mg/L
Pb 217.000†	358.7	3.90	1.09%	[0.50] mg/L
Se 203.985†	218.5	6.92	3.17%	[0.50] mg/L
Se 196.026†	244.5	0.76	0.31%	[0.50] mg/L
Zn 206.200†	7416.2	103.04	1.39%	[0.50] mg/L

Sequence No.: 5 **Autosampler Location: 410**
Sample ID: ST4 **Date Collected: 8/20/2014 7:12:36 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST4

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: ST4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	541321.6	5827.32	1.08%	99.587	%
Ag 328.068†	76779.1	193.88	0.25%	[1.00]	mg/L
As 188.979†	432.4	3.75	0.87%	[1.00]	mg/L
As 193.696†	496.4	0.33	0.07%	[1.00]	mg/L
Ba 233.527†	40071.5	100.91	0.25%	[1.00]	mg/L
Cd 228.802†	8903.0	137.88	1.55%	[1.00]	mg/L
Cd 226.502†	27186.2	27.16	0.10%	[1.00]	mg/L
Cr 267.716†	21761.3	81.60	0.37%	[1.00]	mg/L
Cr 205.560†	18374.6	25.17	0.14%	[1.00]	mg/L
Cu 324.752†	98050.4	161.44	0.16%	[1.00]	mg/L
Mo 202.031†	5389.6	90.53	1.68%	[1.00]	mg/L
Ni 231.604†	16300.2	55.41	0.34%	[1.00]	mg/L
Pb 220.353†	3244.8	59.34	1.83%	[1.00]	mg/L
Pb 217.000†	742.5	16.28	2.19%	[1.00]	mg/L
Se 203.985†	443.0	17.91	4.04%	[1.00]	mg/L
Se 196.026†	488.3	7.59	1.55%	[1.00]	mg/L
Zn 206.200†	15134.8	53.92	0.36%	[1.00]	mg/L

Sequence No.: 6 **Autosampler Location: 413**
Sample ID: ST5 **Date Collected: 8/20/2014 7:13:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ST5

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: ST5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	538485.4	5338.38	0.99%	99.065	%
Ba 233.527†	198890.7	44.82	0.02%	[5.00]	mg/L
Cd 228.802†	43858.7	16.91	0.04%	[5.00]	mg/L
Cd 226.502†	134272.7	318.72	0.24%	[5.00]	mg/L
Cr 267.716†	108177.7	150.80	0.14%	[5.00]	mg/L
Cr 205.560†	91192.6	186.08	0.20%	[5.00]	mg/L
Cu 324.752†	474857.2	1094.85	0.23%	[5.00]	mg/L
Mo 202.031†	26925.3	50.36	0.19%	[5.00]	mg/L

Ni 231.604†	80876.4	97.10	0.12%	[5.00] mg/L
Zn 206.200†	74836.5	176.83	0.24%	[5.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	76480	0.00000	0.999969	
As 188.979	4	Lin Thru 0	0.0	432.1	0.00000	0.999955	
As 193.696	4	Lin Thru 0	0.0	496.3	0.00000	0.999989	
Ba 233.527	5	Lin Thru 0	0.0	39780	0.00000	0.999998	
Cd 228.802	5	Lin Thru 0	0.0	8776	0.00000	0.999996	
Cd 226.502	5	Lin Thru 0	0.0	26860	0.00000	0.999996	
Cr 267.716	5	Lin Thru 0	0.0	21640	0.00000	0.999999	
Cr 205.560	5	Lin Thru 0	0.0	18240	0.00000	0.999998	
Cu 324.752	5	Lin Thru 0	0.0	95100	0.00000	0.999980	
Mo 202.031	5	Lin Thru 0	0.0	5384	0.00000	0.999998	
Ni 231.604	5	Lin Thru 0	0.0	16180	0.00000	0.999998	
Pb 220.353	4	Lin Thru 0	0.0	3231	0.00000	0.999963	
Pb 217.000	3	Lin Thru 0	0.0	737.3	0.00000	0.999995	
Se 203.985	3	Lin Thru 0	0.0	441.8	0.00000	0.999985	
Se 196.026	3	Lin Thru 0	0.0	488.4	0.00000	0.999995	
Zn 206.200	5	Lin Thru 0	0.0	14970	0.00000	0.999997	

User canceled analysis.

Analysis Begun

Start Time: 8/20/2014 7:14:54 AM **Plasma On Time: 8/20/2014 6:06:14 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082014 B14845.sif
Batch ID: 082014 B14845
Results Data Set: 082014 B14845
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 10 **Autosampler Location: 401**
Sample ID: ICV **Date Collected: 8/20/2014 7:14:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	539875.5	99.321	%	1.0622				1.07%
Ag 328.068†	37994.8	0.49681	mg/L	0.001602	0.49681	mg/L	0.001602	0.32%
QC value within limits for Ag 328.068 Recovery = 99.36%								
As 188.979†	215.1	0.49787	mg/L	0.005667	0.49787	mg/L	0.005667	1.14%
QC value within limits for As 188.979 Recovery = 99.57%								
As 193.696†	252.4	0.50869	mg/L	0.014385	0.50869	mg/L	0.014385	2.83%
Ba 233.527†	19847.2	0.49887	mg/L	0.001879	0.49887	mg/L	0.001879	0.38%
QC value within limits for Ba 233.527 Recovery = 99.77%								
Cd 228.802†	4429.6	0.50473	mg/L	0.005605	0.50473	mg/L	0.005605	1.11%
QC value within limits for Cd 228.802 Recovery = 100.95%								
Cd 226.502†	13395.1	0.49862	mg/L	0.000647	0.49862	mg/L	0.000647	0.13%
Cr 267.716†	10741.1	0.49640	mg/L	0.000546	0.49640	mg/L	0.000546	0.11%
Cr 205.560†	9119.0	0.49990	mg/L	0.004447	0.49990	mg/L	0.004447	0.89%
QC value within limits for Cr 205.560 Recovery = 99.98%								
Cu 324.752†	48948.2	0.51470	mg/L	0.000442	0.51470	mg/L	0.000442	0.09%
QC value within limits for Cu 324.752 Recovery = 102.94%								

Mo 202.031†	2688.0	0.49924 mg/L	0.005125	0.49924 mg/L	0.005125	1.03%
QC value within limits for Mo 202.031 Recovery = 99.85%						
Ni 231.604†	8246.0	0.50969 mg/L	0.005162	0.50969 mg/L	0.005162	1.01%
QC value within limits for Ni 231.604 Recovery = 101.94%						
Pb 220.353†	1631.9	0.50507 mg/L	0.006933	0.50507 mg/L	0.006933	1.37%
QC value within limits for Pb 220.353 Recovery = 101.01%						
Pb 217.000†	367.9	0.49892 mg/L	0.011194	0.49892 mg/L	0.011194	2.24%
Se 203.985†	225.3	0.51009 mg/L	0.005608	0.51009 mg/L	0.005608	1.10%
Se 196.026†	249.1	0.51004 mg/L	0.015863	0.51004 mg/L	0.015863	3.11%
QC value within limits for Se 196.026 Recovery = 102.01%						
Zn 206.200†	7460.3	0.49827 mg/L	0.005709	0.49827 mg/L	0.005709	1.15%
QC value within limits for Zn 206.200 Recovery = 99.65%						

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/20/2014 7:16:18 AM **Plasma On Time: 8/20/2014 6:06:14 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 077N1091501 **Autosampler: ESI**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\082014 B14845.sif
Batch ID: 082014 B14845
Results Data Set: 082014 B14845
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 12 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 8/20/2014 7:16:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	547813.7	100.78	%	1.229				1.22%
Ag 328.068†	15.7	0.00021	mg/L	0.000235	0.00021	mg/L	0.000235	114.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-5.1	-0.01178	mg/L	0.003788	-0.01178	mg/L	0.003788	32.16%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.5	-0.00103	mg/L	0.010434	-0.00103	mg/L	0.010434	>999.9%
Ba 233.527†	-19.8	-0.00050	mg/L	0.000266	-0.00050	mg/L	0.000266	53.50%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	1.4	0.00015	mg/L	0.000186	0.00015	mg/L	0.000186	120.68%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-1.9	-0.00007	mg/L	0.000082	-0.00007	mg/L	0.000082	118.58%
Cr 267.716†	2.0	0.00009	mg/L	0.000212	0.00009	mg/L	0.000212	225.36%
Cr 205.560†	0.3	0.00002	mg/L	0.000359	0.00002	mg/L	0.000359	>999.9%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-27.6	-0.00029	mg/L	0.000266	-0.00029	mg/L	0.000266	91.36%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	7.4	0.00137	mg/L	0.000208	0.00137	mg/L	0.000208	15.15%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-4.6	-0.00029	mg/L	0.000559	-0.00029	mg/L	0.000559	194.52%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-3.9	-0.00119	mg/L	0.000675	-0.00119	mg/L	0.000675	56.48%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.2	-0.00163	mg/L	0.011308	-0.00163	mg/L	0.011308	693.99%
Se 203.985†	3.5	0.00789	mg/L	0.017931	0.00789	mg/L	0.017931	227.21%
Se 196.026†	6.5	0.01326	mg/L	0.012724	0.01326	mg/L	0.012724	95.95%
QC value within limits for Se 196.026 Recovery = Not calculated								

Zn 206.200†	1.7	0.00011 mg/L	0.000130	0.00011 mg/L	0.000130	117.93%

QC value within limits for Zn 206.200 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 13 | **Autosampler Location: 408**
Sample ID: PQL CHECK | **Date Collected: 8/20/2014 7:17:31 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: PQL CHECK

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: PQL CHECK

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	536182.4	98.641	%	1.0115				1.03%
Ag 328.068†	409.3	0.00535	mg/L	0.000088	0.00535	mg/L	0.000088	1.65%
QC value within limits for Ag 328.068 Recovery = 107.04%								
As 188.979†	4.5	0.01050	mg/L	0.008277	0.01050	mg/L	0.008277	78.83%
QC value within limits for As 188.979 Recovery = 52.50%								
As 193.696†	12.6	0.02542	mg/L	0.004991	0.02542	mg/L	0.004991	19.64%
Ba 233.527†	62.1	0.00156	mg/L	0.000256	0.00156	mg/L	0.000256	16.42%
QC value within limits for Ba 233.527 Recovery = 77.99%								
Cd 228.802†	15.9	0.00181	mg/L	0.000031	0.00181	mg/L	0.000031	1.72%
QC value within limits for Cd 228.802 Recovery = 90.53%								
Cd 226.502†	50.2	0.00187	mg/L	0.000153	0.00187	mg/L	0.000153	8.20%
Cr 267.716†	139.6	0.00645	mg/L	0.000263	0.00645	mg/L	0.000263	4.07%
Cr 205.560†	109.7	0.00601	mg/L	0.000868	0.00601	mg/L	0.000868	14.44%
QC value within limits for Cr 205.560 Recovery = 100.22%								
Cu 324.752†	517.8	0.00544	mg/L	0.000152	0.00544	mg/L	0.000152	2.78%
QC value within limits for Cu 324.752 Recovery = 90.74%								
Mo 202.031†	50.2	0.00933	mg/L	0.000827	0.00933	mg/L	0.000827	8.86%
QC value within limits for Mo 202.031 Recovery = 116.61%								
Ni 231.604†	94.8	0.00586	mg/L	0.000525	0.00586	mg/L	0.000525	8.96%
QC value within limits for Ni 231.604 Recovery = 117.13%								
Pb 220.353†	15.7	0.00485	mg/L	0.001997	0.00485	mg/L	0.001997	41.19%
QC value within limits for Pb 220.353 Recovery = 96.96%								
Pb 217.000†	1.3	0.00170	mg/L	0.007395	0.00170	mg/L	0.007395	433.85%
Se 203.985†	22.8	0.05165	mg/L	0.012252	0.05165	mg/L	0.012252	23.72%
Se 196.026†	30.7	0.06277	mg/L	0.004763	0.06277	mg/L	0.004763	7.59%
QC value within limits for Se 196.026 Recovery = 125.54%								
Zn 206.200†	94.9	0.00634	mg/L	0.000205	0.00634	mg/L	0.000205	3.23%
QC value within limits for Zn 206.200 Recovery = 126.71%								

All analyte(s) passed QC.

Sequence No.: 14 | **Autosampler Location: 403**
Sample ID: ICS ELEM | **Date Collected: 8/20/2014 7:18:47 AM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS ELEM

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: ICS ELEM

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	533646.1	98.175	%	1.0087				1.03%
Ag 328.068†	40655.1	0.53159	mg/L	0.000546	0.53159	mg/L	0.000546	0.10%

QC value within limits for Ag 328.068 Recovery = 106.32%						
As 188.979†	233.8	0.54119 mg/L	0.010650	0.54119 mg/L	0.010650	1.97%
QC value within limits for As 188.979 Recovery = 108.24%						
As 193.696†	220.1	0.44341 mg/L	0.013807	0.44341 mg/L	0.013807	3.11%
Ba 233.527†	20265.1	0.50937 mg/L	0.000720	0.50937 mg/L	0.000720	0.14%
QC value within limits for Ba 233.527 Recovery = 101.87%						
Cd 228.802†	4756.7	0.54199 mg/L	0.002837	0.54199 mg/L	0.002837	0.52%
QC value within limits for Cd 228.802 Recovery = 108.40%						
Cd 226.502†	13927.0	0.51842 mg/L	0.001061	0.51842 mg/L	0.001061	0.20%
Cr 267.716†	10913.8	0.50438 mg/L	0.001496	0.50438 mg/L	0.001496	0.30%
Cr 205.560†	9205.0	0.50462 mg/L	0.004064	0.50462 mg/L	0.004064	0.81%
QC value within limits for Cr 205.560 Recovery = 100.92%						
Cu 324.752†	47990.3	0.50462 mg/L	0.001523	0.50462 mg/L	0.001523	0.30%
QC value within limits for Cu 324.752 Recovery = 100.92%						
Mo 202.031†	2755.9	0.51185 mg/L	0.005565	0.51185 mg/L	0.005565	1.09%
QC value within limits for Mo 202.031 Recovery = 102.37%						
Ni 231.604†	7811.8	0.48285 mg/L	0.002316	0.48285 mg/L	0.002316	0.48%
QC value within limits for Ni 231.604 Recovery = 96.57%						
Pb 220.353†	1588.2	0.49152 mg/L	0.002828	0.49152 mg/L	0.002828	0.58%
QC value within limits for Pb 220.353 Recovery = 98.30%						
Pb 217.000†	392.3	0.53202 mg/L	0.006153	0.53202 mg/L	0.006153	1.16%
Se 203.985†	232.1	0.52546 mg/L	0.034220	0.52546 mg/L	0.034220	6.51%
Se 196.026†	271.2	0.55532 mg/L	0.005491	0.55532 mg/L	0.005491	0.99%
QC value within limits for Se 196.026 Recovery = 111.06%						
Zn 206.200†	7779.4	0.51958 mg/L	0.002585	0.51958 mg/L	0.002585	0.50%
QC value within limits for Zn 206.200 Recovery = 103.92%						

All analyte(s) passed QC.

Sequence No.: 15 **Autosampler Location: 404**
Sample ID: ICS **Date Collected: 8/20/2014 7:20:04 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.55 L/min

Mean Data: ICS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	536985.5	98.789	%	0.3273				0.33%
Ag 328.068†	1.1	0.00001	mg/L	0.000224	0.00001	mg/L	0.000224	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	1.7	0.00393	mg/L	0.007733	0.00393	mg/L	0.007733	196.78%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-43.7	-0.08814	mg/L	0.006470	-0.08814	mg/L	0.006470	7.34%
Ba 233.527†	28.1	0.00071	mg/L	0.000530	0.00071	mg/L	0.000530	75.04%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	-8.2	-0.00093	mg/L	0.000774	-0.00093	mg/L	0.000774	83.20%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-19.3	-0.00072	mg/L	0.000053	-0.00072	mg/L	0.000053	7.40%
Cr 267.716†	7.8	0.00036	mg/L	0.000331	0.00036	mg/L	0.000331	91.45%
Cr 205.560†	-66.7	-0.00366	mg/L	0.001773	-0.00366	mg/L	0.001773	48.48%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-446.7	-0.00470	mg/L	0.000135	-0.00470	mg/L	0.000135	2.86%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	13.9	0.00258	mg/L	0.001045	0.00258	mg/L	0.001045	40.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	-6.6	-0.00041	mg/L	0.000641	-0.00041	mg/L	0.000641	157.35%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-44.4	-0.01374	mg/L	0.000809	-0.01374	mg/L	0.000809	5.89%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	5.2	0.00705	mg/L	0.004971	0.00705	mg/L	0.004971	70.51%
Se 203.985†	-26.7	-0.06047	mg/L	0.020060	-0.06047	mg/L	0.020060	33.17%
Se 196.026†	-7.7	-0.01578	mg/L	0.005635	-0.01578	mg/L	0.005635	35.71%

QC value within limits for Se 196.026 Recovery = Not calculated

Zn 206.200†	90.7	0.00606	mg/L	0.000159	0.00606	mg/L	0.000159	2.62%

QC value within limits for Zn 206.200 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 16 | **Autosampler Location: 301**
Sample ID: MB-14835 | **Date Collected: 8/20/2014 7:21:18 AM**
Analyst: ERIC | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: MB-14835

Analyte	Back Pressure	Flow
All	213.0 kPa	0.55 L/min

Mean Data: MB-14835

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	508984.1	93.638	%	0.3547				0.38%
Ag 328.068†	3.2	0.00004	mg/L	0.000315	0.00004	mg/L	0.000315	748.39%
As 188.979†	-3.6	-0.00832	mg/L	0.003063	-0.00832	mg/L	0.003063	36.80%
As 193.696†	-0.2	-0.00048	mg/L	0.008281	-0.00048	mg/L	0.008281	>999.9%
Ba 233.527†	-11.1	-0.00028	mg/L	0.000510	-0.00028	mg/L	0.000510	183.38%
Cd 228.802†	-2.0	-0.00022	mg/L	0.000333	-0.00022	mg/L	0.000333	149.00%
Cd 226.502†	-9.0	-0.00033	mg/L	0.000044	-0.00033	mg/L	0.000044	13.21%
Cr 267.716†	14.7	0.00068	mg/L	0.000227	0.00068	mg/L	0.000227	33.43%
Cr 205.560†	-12.2	-0.00067	mg/L	0.000802	-0.00067	mg/L	0.000802	120.05%
Cu 324.752†	98.3	0.00103	mg/L	0.000357	0.00103	mg/L	0.000357	34.57%
Mo 202.031†	10.4	0.00194	mg/L	0.000276	0.00194	mg/L	0.000276	14.25%
Ni 231.604†	21.5	0.00133	mg/L	0.000188	0.00133	mg/L	0.000188	14.18%
Pb 220.353†	-9.9	-0.00307	mg/L	0.002899	-0.00307	mg/L	0.002899	94.31%
Pb 217.000†	-0.2	-0.00030	mg/L	0.004393	-0.00030	mg/L	0.004393	>999.9%
Se 203.985†	-2.6	-0.00587	mg/L	0.012849	-0.00587	mg/L	0.012849	218.73%
Se 196.026†	9.2	0.01884	mg/L	0.012555	0.01884	mg/L	0.012555	66.63%
Zn 206.200†	64.8	0.00433	mg/L	0.000425	0.00433	mg/L	0.000425	9.82%

Sequence No.: 17 | **Autosampler Location: 302**
Sample ID: LCS-14835 | **Date Collected: 8/20/2014 7:22:33 AM**
Analyst: ERIC | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**
Wash Time: 20 | **Auto Dilution Factor: 1**

Nebulizer Parameters: LCS-14835

Analyte	Back Pressure	Flow
All	214.0 kPa	0.55 L/min

Mean Data: LCS-14835

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	494769.5	91.023	%	1.2381				1.36%
Ag 328.068†	37556.5	0.49108	mg/L	0.002310	0.49108	mg/L	0.002310	0.47%
As 188.979†	209.8	0.48548	mg/L	0.008520	0.48548	mg/L	0.008520	1.75%
As 193.696†	241.3	0.48627	mg/L	0.006512	0.48627	mg/L	0.006512	1.34%
Ba 233.527†	18973.0	0.47690	mg/L	0.000848	0.47690	mg/L	0.000848	0.18%
Cd 228.802†	4229.6	0.48193	mg/L	0.002701	0.48193	mg/L	0.002701	0.56%
Cd 226.502†	12755.6	0.47482	mg/L	0.000150	0.47482	mg/L	0.000150	0.03%
Cr 267.716†	10515.7	0.48599	mg/L	0.000376	0.48599	mg/L	0.000376	0.08%
Cr 205.560†	8831.9	0.48416	mg/L	0.004153	0.48416	mg/L	0.004153	0.86%
Cu 324.752†	48944.6	0.51466	mg/L	0.000389	0.51466	mg/L	0.000389	0.08%
Mo 202.031†	2740.1	0.50893	mg/L	0.003802	0.50893	mg/L	0.003802	0.75%
Ni 231.604†	7426.0	0.45900	mg/L	0.002365	0.45900	mg/L	0.002365	0.52%
Pb 220.353†	1489.8	0.46108	mg/L	0.005876	0.46108	mg/L	0.005876	1.27%

Pb 217.000†	345.6	0.46875 mg/L	0.013880	0.46875 mg/L	0.013880	2.96%
Se 203.985†	182.6	0.41324 mg/L	0.001390	0.41324 mg/L	0.001390	0.34%
Se 196.026†	223.2	0.45700 mg/L	0.007728	0.45700 mg/L	0.007728	1.69%
Zn 206.200†	6950.3	0.46421 mg/L	0.001625	0.46421 mg/L	0.001625	0.35%

Matrix Recovery Check: LCS-14835

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.10004	0.49108	0.002	mg/L	491.0
As 188.979	0.49168	0.48548	0.009	mg/L	98.8
As 193.696	0.49952	0.48627	0.007	mg/L	97.3
Ba 233.527	0.49972	0.47690	0.001	mg/L	95.4
Cd 228.802	0.49978	0.48193	0.003	mg/L	96.4
Cd 226.502	0.49967	0.47482	0.000	mg/L	95.0
Cr 267.716	0.50068	0.48599	0.000	mg/L	97.1
Cr 205.560	0.49933	0.48416	0.004	mg/L	97.0
Cu 324.752	0.50103	0.51466	0.000	mg/L	102.7
Mo 202.031	0.50194	0.50893	0.004	mg/L	101.4
Ni 231.604	0.50133	0.45900	0.002	mg/L	91.5
Pb 220.353	0.49693	0.46108	0.006	mg/L	92.8
Pb 217.000	0.49970	0.46875	0.014	mg/L	93.8
Se 203.985	0.49413	0.41324	0.001	mg/L	83.8
Se 196.026	0.51884	0.45700	0.008	mg/L	87.6
Zn 206.200	0.50433	0.46421	0.002	mg/L	92.0

Sequence No.: 18
Sample ID: MB-14846
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 303
Date Collected: 8/20/2014 7:23:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: MB-14846

Analyte	Back Pressure	Flow
All	215.0 kPa	0.55 L/min

Mean Data: MB-14846

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	504507.4	92.814	%	1.0323				1.11%
Ag 328.068†	12.3	0.00016	mg/L	0.000650	0.00016	mg/L	0.000650	404.89%
As 188.979†	-0.4	-0.00092	mg/L	0.006637	-0.00092	mg/L	0.006637	720.06%
As 193.696†	0.6	0.00123	mg/L	0.009655	0.00123	mg/L	0.009655	782.54%
Ba 233.527†	19.2	0.00048	mg/L	0.000432	0.00048	mg/L	0.000432	89.32%
Cd 228.802†	-2.3	-0.00026	mg/L	0.000435	-0.00026	mg/L	0.000435	168.58%
Cd 226.502†	4.2	0.00016	mg/L	0.000230	0.00016	mg/L	0.000230	146.59%
Cr 267.716†	9.0	0.00041	mg/L	0.000132	0.00041	mg/L	0.000132	31.79%
Cr 205.560†	-11.6	-0.00064	mg/L	0.000327	-0.00064	mg/L	0.000327	51.20%
Cu 324.752†	-169.3	-0.00178	mg/L	0.000289	-0.00178	mg/L	0.000289	16.22%
Mo 202.031†	6.6	0.00123	mg/L	0.000381	0.00123	mg/L	0.000381	30.92%
Ni 231.604†	10.5	0.00065	mg/L	0.000223	0.00065	mg/L	0.000223	34.37%
Pb 220.353†	-12.5	-0.00387	mg/L	0.003404	-0.00387	mg/L	0.003404	87.93%
Pb 217.000†	0.0	0.00001	mg/L	0.006444	0.00001	mg/L	0.006444	>999.9%
Se 203.985†	-20.3	-0.04585	mg/L	0.027807	-0.04585	mg/L	0.027807	60.65%
Se 196.026†	1.1	0.00219	mg/L	0.002964	0.00219	mg/L	0.002964	135.21%
Zn 206.200†	18.3	0.00122	mg/L	0.000298	0.00122	mg/L	0.000298	24.41%

Sequence No.: 19
Sample ID: LCS-14846
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 304
Date Collected: 8/20/2014 7:25:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Pb 217.000	0.49882	0.09916	0.003	mg/L	20.1
Se 203.985	1.1688	0.80273	0.010	mg/L	26.8
Se 196.026	1.2219	0.84964	0.026	mg/L	25.5
Zn 206.200	0.50078	0.10512	0.001	mg/L	20.9

Sequence No.: 25
Sample ID: 1408919-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 310
Date Collected: 8/20/2014 7:32:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408919-002A

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: 1408919-002A

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	518420.5	95.374	%	0.3860				0.40%
Ag 328.068†	-18.5	-0.00024	mg/L	0.000487	-0.00024	mg/L	0.000487	201.22%
As 188.979†	-3.4	-0.00786	mg/L	0.003707	-0.00786	mg/L	0.003707	47.15%
As 193.696†	4.1	0.00822	mg/L	0.005441	0.00822	mg/L	0.005441	66.20%
Ba 233.527†	359.4	0.00903	mg/L	0.000251	0.00903	mg/L	0.000251	2.78%
Cd 228.802†	2.2	0.00025	mg/L	0.000316	0.00025	mg/L	0.000316	128.14%
Cd 226.502†	-2.5	-0.00009	mg/L	0.000212	-0.00009	mg/L	0.000212	227.78%
Cr 267.716†	206.8	0.00956	mg/L	0.000406	0.00956	mg/L	0.000406	4.25%
Cr 205.560†	146.0	0.00800	mg/L	0.000109	0.00800	mg/L	0.000109	1.36%
Cu 324.752†	184.4	0.00194	mg/L	0.000141	0.00194	mg/L	0.000141	7.25%
Mo 202.031†	27.1	0.00503	mg/L	0.000913	0.00503	mg/L	0.000913	18.16%
Ni 231.604†	89.3	0.00552	mg/L	0.000776	0.00552	mg/L	0.000776	14.05%
Pb 220.353†	1.0	0.00030	mg/L	0.001300	0.00030	mg/L	0.001300	440.44%
Pb 217.000†	-4.3	-0.00581	mg/L	0.003310	-0.00581	mg/L	0.003310	56.92%
Se 203.985†	12.1	0.02738	mg/L	0.010079	0.02738	mg/L	0.010079	36.82%
Se 196.026†	35.0	0.07171	mg/L	0.006781	0.07171	mg/L	0.006781	9.46%
Zn 206.200†	24.6	0.00164	mg/L	0.000372	0.00164	mg/L	0.000372	22.65%

Sequence No.: 26
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/20/2014 7:33:51 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	539495.4	99.251	%	0.4431				0.45%
Ag 328.068†	37589.8	0.49151	mg/L	0.000829	0.49151	mg/L	0.000829	0.17%
QC value within limits for Ag 328.068 Recovery = 98.30%								
As 188.979†	203.6	0.47132	mg/L	0.011304	0.47132	mg/L	0.011304	2.40%
QC value within limits for As 188.979 Recovery = 94.26%								
As 193.696†	242.6	0.48884	mg/L	0.004705	0.48884	mg/L	0.004705	0.96%
Ba 233.527†	19470.1	0.48939	mg/L	0.001756	0.48939	mg/L	0.001756	0.36%
QC value within limits for Ba 233.527 Recovery = 97.88%								
Cd 228.802†	4338.2	0.49431	mg/L	0.000614	0.49431	mg/L	0.000614	0.12%
QC value within limits for Cd 228.802 Recovery = 98.86%								
Cd 226.502†	13149.9	0.48950	mg/L	0.000788	0.48950	mg/L	0.000788	0.16%
Cr 267.716†	10565.9	0.48831	mg/L	0.000601	0.48831	mg/L	0.000601	0.12%
Cr 205.560†	8938.7	0.49002	mg/L	0.000406	0.49002	mg/L	0.000406	0.08%

QC value within limits for Cr 205.560 Recovery = 98.00%

Cu 324.752†	48633.1	0.51138	mg/L	0.000496	0.51138	mg/L	0.000496	0.10%

QC value within limits for Cu 324.752 Recovery = 102.28%

Mo 202.031†	2625.8	0.48770	mg/L	0.001423	0.48770	mg/L	0.001423	0.29%

QC value within limits for Mo 202.031 Recovery = 97.54%

Ni 231.604†	7905.8	0.48866	mg/L	0.002966	0.48866	mg/L	0.002966	0.61%

QC value within limits for Ni 231.604 Recovery = 97.73%

Pb 220.353†	1568.7	0.48549	mg/L	0.001975	0.48549	mg/L	0.001975	0.41%

QC value within limits for Pb 220.353 Recovery = 97.10%

Pb 217.000†	364.0	0.49361	mg/L	0.003793	0.49361	mg/L	0.003793	0.77%
Se 203.985†	206.7	0.46800	mg/L	0.019602	0.46800	mg/L	0.019602	4.19%
Se 196.026†	240.5	0.49235	mg/L	0.012663	0.49235	mg/L	0.012663	2.57%

QC value within limits for Se 196.026 Recovery = 98.47%

Zn 206.200†	7268.0	0.48542	mg/L	0.002204	0.48542	mg/L	0.002204	0.45%

QC value within limits for Zn 206.200 Recovery = 97.08%

All analyte(s) passed QC.

Sequence No.: 27 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/20/2014 7:35:07 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	530623.3	97.619	%	0.8296				0.85%
Ag 328.068†	-33.2	-0.00043	mg/L	0.000149	-0.00043	mg/L	0.000149	34.26%

QC value within limits for Ag 328.068 Recovery = Not calculated

As 188.979†	-3.6	-0.00830	mg/L	0.009285	-0.00830	mg/L	0.009285	111.89%

QC value within limits for As 188.979 Recovery = Not calculated

As 193.696†	2.2	0.00435	mg/L	0.001376	0.00435	mg/L	0.001376	31.65%
Ba 233.527†	-8.9	-0.00022	mg/L	0.000386	-0.00022	mg/L	0.000386	172.61%

QC value within limits for Ba 233.527 Recovery = Not calculated

Cd 228.802†	-1.1	-0.00013	mg/L	0.000472	-0.00013	mg/L	0.000472	377.26%

QC value within limits for Cd 228.802 Recovery = Not calculated

Cd 226.502†	-2.4	-0.00009	mg/L	0.000024	-0.00009	mg/L	0.000024	27.49%
Cr 267.716†	-6.3	-0.00029	mg/L	0.000150	-0.00029	mg/L	0.000150	51.42%
Cr 205.560†	6.0	0.00033	mg/L	0.000114	0.00033	mg/L	0.000114	34.69%

QC value within limits for Cr 205.560 Recovery = Not calculated

Cu 324.752†	-26.3	-0.00028	mg/L	0.000193	-0.00028	mg/L	0.000193	69.78%

QC value within limits for Cu 324.752 Recovery = Not calculated

Mo 202.031†	3.2	0.00059	mg/L	0.000497	0.00059	mg/L	0.000497	83.79%

QC value within limits for Mo 202.031 Recovery = Not calculated

Ni 231.604†	-0.4	-0.00002	mg/L	0.000164	-0.00002	mg/L	0.000164	720.84%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	-4.4	-0.00135	mg/L	0.002516	-0.00135	mg/L	0.002516	186.27%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	-3.5	-0.00478	mg/L	0.006987	-0.00478	mg/L	0.006987	146.05%
Se 203.985†	-11.2	-0.02541	mg/L	0.002466	-0.02541	mg/L	0.002466	9.70%
Se 196.026†	0.2	0.00048	mg/L	0.014447	0.00048	mg/L	0.014447	>999.9%

QC value within limits for Se 196.026 Recovery = Not calculated

Zn 206.200†	2.3	0.00016	mg/L	0.000076	0.00016	mg/L	0.000076	49.08%

QC value within limits for Zn 206.200 Recovery = Not calculated

All analyte(s) passed QC.
User canceled analysis.

Analysis Begun

Start Time: 8/20/2014 7:36:10 AM **Plasma On Time: 8/20/2014 6:06:14 AM**
Logged In Analyst: inorg **Technique: ICP Continuous**

Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 121.0%

Ag 328.068†	8.8	0.00011 mg/L	0.000346	0.00011 mg/L	0.000346	301.75%
As 188.979†	21.7	0.05026 mg/L	0.006809	0.05026 mg/L	0.006809	13.55%
As 193.696†	-338.4	-0.68198 mg/L	0.005616	-0.68198 mg/L	0.005616	0.82%
Ba 233.527†	177163.1	4.4531 mg/L	0.00620	4.4531 mg/L	0.00620	0.14%
Cd 228.802†	-9.0	-0.00102 mg/L	0.000538	-0.00102 mg/L	0.000538	52.47%
Cd 226.502†	-422.6	-0.01573 mg/L	0.000276	-0.01573 mg/L	0.000276	1.76%
Cr 267.716†	4971.7	0.22977 mg/L	0.000340	0.22977 mg/L	0.000340	0.15%
Cr 205.560†	3484.3	0.19101 mg/L	0.000463	0.19101 mg/L	0.000463	0.24%
Cu 324.752†	14174.6	0.14905 mg/L	0.000439	0.14905 mg/L	0.000439	0.29%
Mo 202.031†	30.2	0.00561 mg/L	0.000869	0.00561 mg/L	0.000869	15.49%
Ni 231.604†	2706.8	0.16731 mg/L	0.000937	0.16731 mg/L	0.000937	0.56%
Pb 220.353†	210.7	0.06520 mg/L	0.003449	0.06520 mg/L	0.003449	5.29%
Pb 217.000†	220.7	0.29928 mg/L	0.020124	0.29928 mg/L	0.020124	6.72%
Se 203.985†	-22.2	-0.05033 mg/L	0.016928	-0.05033 mg/L	0.016928	33.64%
Se 196.026†	-28.9	-0.05913 mg/L	0.003544	-0.05913 mg/L	0.003544	5.99%

Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.

Zn 206.200†	10587.8	0.70715 mg/L	0.003172	0.70715 mg/L	0.003172	0.45%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 38
Sample ID: 1408468-002B 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 320
Date Collected: 8/20/2014 7:47:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408468-002B 2X

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: 1408468-002B 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	611293.1	112.46	%	0.843				0.75%
Ag 328.068†	-0.6	-0.00001	mg/L	0.000400	-0.00001	mg/L	0.000400	>999.9%
As 188.979†	13.5	0.03122	mg/L	0.015187	0.03122	mg/L	0.015187	48.64%
As 193.696†	-187.9	-0.37864	mg/L	0.028431	-0.37864	mg/L	0.028431	7.51%
Ba 233.527†	103842.0	2.6101	mg/L	0.00433	2.6101	mg/L	0.00433	0.17%
Cd 228.802†	-8.0	-0.00091	mg/L	0.000424	-0.00091	mg/L	0.000424	46.70%
Cd 226.502†	-262.5	-0.00977	mg/L	0.000268	-0.00977	mg/L	0.000268	2.74%
Cr 267.716†	2891.0	0.13361	mg/L	0.002093	0.13361	mg/L	0.002093	1.57%
Cr 205.560†	2023.0	0.11090	mg/L	0.001180	0.11090	mg/L	0.001180	1.06%
Cu 324.752†	7688.6	0.08085	mg/L	0.000265	0.08085	mg/L	0.000265	0.33%
Mo 202.031†	19.3	0.00358	mg/L	0.000288	0.00358	mg/L	0.000288	8.05%
Ni 231.604†	1589.9	0.09827	mg/L	0.001739	0.09827	mg/L	0.001739	1.77%
Pb 220.353†	125.4	0.03881	mg/L	0.001796	0.03881	mg/L	0.001796	4.63%
Pb 217.000†	126.5	0.17160	mg/L	0.014080	0.17160	mg/L	0.014080	8.20%
Se 203.985†	-33.7	-0.07619	mg/L	0.020868	-0.07619	mg/L	0.020868	27.39%
Se 196.026†	-10.9	-0.02232	mg/L	0.013000	-0.02232	mg/L	0.013000	58.24%
Zn 206.200†	6277.7	0.41928	mg/L	0.004115	0.41928	mg/L	0.004115	0.98%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/20/2014 7:48:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	551995.0	101.55	%	0.311				0.31%
Ag 328.068†	37335.4	0.48819	mg/L	0.001545	0.48819	mg/L	0.001545	0.32%
QC value within limits for Ag 328.068 Recovery = 97.64%								
As 188.979†	204.8	0.47405	mg/L	0.017229	0.47405	mg/L	0.017229	3.63%
QC value within limits for As 188.979 Recovery = 94.81%								
As 193.696†	240.5	0.48464	mg/L	0.006013	0.48464	mg/L	0.006013	1.24%
Ba 233.527†	19481.7	0.48968	mg/L	0.001432	0.48968	mg/L	0.001432	0.29%
QC value within limits for Ba 233.527 Recovery = 97.94%								
Cd 228.802†	4303.0	0.49030	mg/L	0.002242	0.49030	mg/L	0.002242	0.46%
QC value within limits for Cd 228.802 Recovery = 98.06%								
Cd 226.502†	13268.0	0.49389	mg/L	0.001185	0.49389	mg/L	0.001185	0.24%
Cr 267.716†	10595.2	0.48966	mg/L	0.001865	0.48966	mg/L	0.001865	0.38%
Cr 205.560†	8850.0	0.48516	mg/L	0.003046	0.48516	mg/L	0.003046	0.63%
QC value within limits for Cr 205.560 Recovery = 97.03%								
Cu 324.752†	48399.2	0.50892	mg/L	0.001510	0.50892	mg/L	0.001510	0.30%
QC value within limits for Cu 324.752 Recovery = 101.78%								
Mo 202.031†	2605.6	0.48394	mg/L	0.003814	0.48394	mg/L	0.003814	0.79%
QC value within limits for Mo 202.031 Recovery = 96.79%								
Ni 231.604†	7853.6	0.48543	mg/L	0.002770	0.48543	mg/L	0.002770	0.57%
QC value within limits for Ni 231.604 Recovery = 97.09%								
Pb 220.353†	1561.0	0.48313	mg/L	0.001829	0.48313	mg/L	0.001829	0.38%
QC value within limits for Pb 220.353 Recovery = 96.63%								
Pb 217.000†	362.4	0.49155	mg/L	0.006466	0.49155	mg/L	0.006466	1.32%
Se 203.985†	214.9	0.48638	mg/L	0.020758	0.48638	mg/L	0.020758	4.27%
Se 196.026†	238.6	0.48862	mg/L	0.021116	0.48862	mg/L	0.021116	4.32%
QC value within limits for Se 196.026 Recovery = 97.72%								
Zn 206.200†	7299.1	0.48751	mg/L	0.004089	0.48751	mg/L	0.004089	0.84%
QC value within limits for Zn 206.200 Recovery = 97.50%								

All analyte(s) passed QC.

Sequence No.: 40 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 8/20/2014 7:49:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	542828.4	99.864	%	1.2743				1.28%
Ag 328.068†	44.5	0.00058	mg/L	0.000611	0.00058	mg/L	0.000611	105.18%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.3	-0.00766	mg/L	0.006003	-0.00766	mg/L	0.006003	78.35%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-0.6	-0.00115	mg/L	0.005789	-0.00115	mg/L	0.005789	504.23%
Ba 233.527†	-11.3	-0.00028	mg/L	0.000027	-0.00028	mg/L	0.000027	9.53%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	0.7	0.00008	mg/L	0.000002	0.00008	mg/L	0.000002	1.89%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-1.4	-0.00005	mg/L	0.000105	-0.00005	mg/L	0.000105	201.26%
Cr 267.716†	7.1	0.00033	mg/L	0.000128	0.00033	mg/L	0.000128	39.01%
Cr 205.560†	4.1	0.00022	mg/L	0.000393	0.00022	mg/L	0.000393	175.10%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	-35.0	-0.00037	mg/L	0.000393	-0.00037	mg/L	0.000393	106.71%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	5.3	0.00099	mg/L	0.000391	0.00099	mg/L	0.000391	39.62%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	1.8	0.00011	mg/L	0.000136	0.00011	mg/L	0.000136	120.89%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.4	-0.00197	mg/L	0.002388	-0.00197	mg/L	0.002388	121.34%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	-2.6	-0.00355	mg/L	0.002756	-0.00355	mg/L	0.002756	77.73%
Se 203.985†	-0.6	-0.00139	mg/L	0.019904	-0.00139	mg/L	0.019904	>999.9%
Se 196.026†	6.2	0.01266	mg/L	0.009575	0.01266	mg/L	0.009575	75.66%

QC value within limits for Se 196.026 Recovery = Not calculated

Zn 206.200†	0.5	0.00003	mg/L	0.000247	0.00003	mg/L	0.000247	746.04%

QC value within limits for Zn 206.200 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/20/2014 7:51:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

BL 8/20/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	543652.3	100.02	%	0.552				0.55%
Ag 328.068†	-6.5	-0.00008	mg/L	0.000460	-0.00008	mg/L	0.000460	543.69%
As 188.979†	-1.3	-0.00308	mg/L	0.005131	-0.00308	mg/L	0.005131	166.39%
As 193.696†	-3.4	-0.00690	mg/L	0.005041	-0.00690	mg/L	0.005041	73.02%
Ba 233.527†	-20.2	-0.00051	mg/L	0.000181	-0.00051	mg/L	0.000181	35.69%
Cd 228.802†	-1.2	-0.00013	mg/L	0.000439	-0.00013	mg/L	0.000439	333.61%
Cd 226.502†	-3.5	-0.00013	mg/L	0.000170	-0.00013	mg/L	0.000170	129.10%
Cr 267.716†	2.5	0.00012	mg/L	0.000115	0.00012	mg/L	0.000115	98.76%
Cr 205.560†	3.2	0.00018	mg/L	0.000937	0.00018	mg/L	0.000937	530.40%
Cu 324.752†	-46.2	-0.00049	mg/L	0.000198	-0.00049	mg/L	0.000198	40.85%
Mo 202.031†	6.6	0.00123	mg/L	0.000485	0.00123	mg/L	0.000485	39.45%
Ni 231.604†	0.8	0.00005	mg/L	0.000633	0.00005	mg/L	0.000633	>999.9%
Pb 220.353†	-10.6	-0.00327	mg/L	0.001812	-0.00327	mg/L	0.001812	55.50%
Pb 217.000†	-1.0	-0.00141	mg/L	0.013075	-0.00141	mg/L	0.013075	927.97%
Se 203.985†	-3.2	-0.00724	mg/L	0.012752	-0.00724	mg/L	0.012752	176.08%
Se 196.026†	7.0	0.01433	mg/L	0.011530	0.01433	mg/L	0.011530	80.47%
Zn 206.200†	13.8	0.00092	mg/L	0.000145	0.00092	mg/L	0.000145	15.77%

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: 1408468-003B
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 321
Date Collected: 8/20/2014 7:52:31 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408468-003B

Analyte	Back Pressure	Flow
All	230.0 kPa	0.55 L/min

Mean Data: 1408468-003B

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	632754.5	116.41	%	0.348				0.30%
Ag 328.068†	-27.5	-0.00036	mg/L	0.000177	-0.00036	mg/L	0.000177	49.28%
As 188.979†	22.5	0.05216	mg/L	0.009537	0.05216	mg/L	0.009537	18.29%
As 193.696†	-275.4	-0.55491	mg/L	0.004637	-0.55491	mg/L	0.004637	0.84%
Ba 233.527†	213288.5	5.3611	mg/L	0.01125	5.3611	mg/L	0.01125	0.21%
Cd 228.802†	3.6	0.00041	mg/L	0.000101	0.00041	mg/L	0.000101	24.99%
Cd 226.502†	-332.9	-0.01239	mg/L	0.000346	-0.01239	mg/L	0.000346	2.79%
Cr 267.716†	3910.3	0.18072	mg/L	0.000506	0.18072	mg/L	0.000506	0.28%

Ba 233.527†	342752.2	8.6152	mg/L	0.01412	8.6152	mg/L	0.01412	0.16%
Cd 228.802†	-8.2	-0.00093	mg/L	0.000415	-0.00093	mg/L	0.000415	44.69%
Cd 226.502†	-384.8	-0.01432	mg/L	0.000703	-0.01432	mg/L	0.000703	4.91%
Cr 267.716†	4658.3	0.21528	mg/L	0.000455	0.21528	mg/L	0.000455	0.21%
Cr 205.560†	3282.2	0.17993	mg/L	0.000836	0.17993	mg/L	0.000836	0.46%
Cu 324.752†	13852.5	0.14566	mg/L	0.001189	0.14566	mg/L	0.001189	0.82%
Mo 202.031†	31.9	0.00592	mg/L	0.001783	0.00592	mg/L	0.001783	30.10%
Ni 231.604†	2575.1	0.15916	mg/L	0.000985	0.15916	mg/L	0.000985	0.62%
Pb 220.353†	217.8	0.06739	mg/L	0.002910	0.06739	mg/L	0.002910	4.32%
Pb 217.000†	218.5	0.29630	mg/L	0.016292	0.29630	mg/L	0.016292	5.50%
Se 203.985†	-17.5	-0.03957	mg/L	0.036845	-0.03957	mg/L	0.036845	93.12%
Se 196.026†	-14.5	-0.02964	mg/L	0.016763	-0.02964	mg/L	0.016763	56.56%
Zn 206.200†	9794.3	0.65416	mg/L	0.005470	0.65416	mg/L	0.005470	0.84%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 49
Sample ID: 1408468-006B 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 328
Date Collected: 8/20/2014 8:01:24 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408468-006B 2X

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 1408468-006B 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	599777.2	110.34	%	0.237				0.21%
Ag 328.068†	-17.1	-0.00022	mg/L	0.000226	-0.00022	mg/L	0.000226	100.83%
As 188.979†	11.0	0.02556	mg/L	0.016396	0.02556	mg/L	0.016396	64.15%
As 193.696†	-176.5	-0.35558	mg/L	0.017443	-0.35558	mg/L	0.017443	4.91%
Ba 233.527†	200452.0	5.0385	mg/L	0.00484	5.0385	mg/L	0.00484	0.10%
Cd 228.802†	-5.9	-0.00067	mg/L	0.000073	-0.00067	mg/L	0.000073	11.00%
Cd 226.502†	-238.3	-0.00887	mg/L	0.000044	-0.00887	mg/L	0.000044	0.50%
Cr 267.716†	2732.2	0.12627	mg/L	0.000965	0.12627	mg/L	0.000965	0.76%
Cr 205.560†	1919.4	0.10522	mg/L	0.001214	0.10522	mg/L	0.001214	1.15%
Cu 324.752†	7903.5	0.08311	mg/L	0.000726	0.08311	mg/L	0.000726	0.87%
Mo 202.031†	21.9	0.00407	mg/L	0.001737	0.00407	mg/L	0.001737	42.65%
Ni 231.604†	1542.9	0.09537	mg/L	0.000886	0.09537	mg/L	0.000886	0.93%
Pb 220.353†	130.4	0.04037	mg/L	0.002214	0.04037	mg/L	0.002214	5.49%
Pb 217.000†	126.8	0.17194	mg/L	0.005529	0.17194	mg/L	0.005529	3.22%
Se 203.985†	-21.6	-0.04893	mg/L	0.021159	-0.04893	mg/L	0.021159	43.24%
Se 196.026†	-14.7	-0.03010	mg/L	0.003672	-0.03010	mg/L	0.003672	12.20%
Zn 206.200†	5826.4	0.38914	mg/L	0.003772	0.38914	mg/L	0.003772	0.97%

Sequence No.: 50
Sample ID: 1408893-001A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 329
Date Collected: 8/20/2014 8:02:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001A

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1408893-001A

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	638767.6	117.51	%	0.658				0.56%
Ag 328.068†	-264.5	-0.00346	mg/L	0.000268	-0.00346	mg/L	0.000268	7.76%
As 188.979†	24.9	0.05774	mg/L	0.006967	0.05774	mg/L	0.006967	12.07%

As 193.696†	-127.1	-0.25615 mg/L	0.003152	-0.25615 mg/L	0.003152	1.23%
Ba 233.527†	114099.4	2.8679 mg/L	0.00430	2.8679 mg/L	0.00430	0.15%
Cd 228.802†	-8.4	-0.00096 mg/L	0.000067	-0.00096 mg/L	0.000067	6.97%
Cd 226.502†	-265.1	-0.00987 mg/L	0.000209	-0.00987 mg/L	0.000209	2.12%
Cr 267.716†	3471.4	0.16043 mg/L	0.000267	0.16043 mg/L	0.000267	0.17%
Cr 205.560†	2463.8	0.13506 mg/L	0.000903	0.13506 mg/L	0.000903	0.67%
Cu 324.752†	11009.0	0.11576 mg/L	0.000582	0.11576 mg/L	0.000582	0.50%
Mo 202.031†	36.8	0.00683 mg/L	0.000505	0.00683 mg/L	0.000505	7.39%
Ni 231.604†	2360.2	0.14588 mg/L	0.000490	0.14588 mg/L	0.000490	0.34%
Pb 220.353†	648.2	0.20063 mg/L	0.006207	0.20063 mg/L	0.006207	3.09%
Pb 217.000†	225.3	0.30559 mg/L	0.004911	0.30559 mg/L	0.004911	1.61%
Se 203.985†	-20.6	-0.04669 mg/L	0.027041	-0.04669 mg/L	0.027041	57.92%
Se 196.026†	-22.3	-0.04574 mg/L	0.015873	-0.04574 mg/L	0.015873	34.71%
Zn 206.200†	7038.9	0.47013 mg/L	0.000958	0.47013 mg/L	0.000958	0.20%

Sequence No.: 51
Sample ID: 1408893-001AMS
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 330
Date Collected: 8/20/2014 8:03:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001AMS

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1408893-001AMS

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	598457.7	110.10	%	1.834				1.67%
Ag 328.068†	30286.1	0.39601	mg/L	0.000662	0.39601	mg/L	0.000662	0.17%
As 188.979†	180.5	0.41780	mg/L	0.008335	0.41780	mg/L	0.008335	1.99%
As 193.696†	9.2	0.01851	mg/L	0.011486	0.01851	mg/L	0.011486	62.07%
Ba 233.527†	147070.3	3.6967	mg/L	0.00424	3.6967	mg/L	0.00424	0.11%
Cd 228.802†	3283.8	0.37417	mg/L	0.006746	0.37417	mg/L	0.006746	1.80%
Cd 226.502†	8997.3	0.33492	mg/L	0.002189	0.33492	mg/L	0.002189	0.65%
Cr 267.716†	12070.8	0.55785	mg/L	0.001543	0.55785	mg/L	0.001543	0.28%
Cr 205.560†	9632.6	0.52806	mg/L	0.008517	0.52806	mg/L	0.008517	1.61%
Cu 324.752†	51542.5	0.54198	mg/L	0.001759	0.54198	mg/L	0.001759	0.32%
Mo 202.031†	1822.9	0.33857	mg/L	0.006722	0.33857	mg/L	0.006722	1.99%
Ni 231.604†	7771.0	0.48033	mg/L	0.001699	0.48033	mg/L	0.001699	0.35%
Pb 220.353†	1759.2	0.54446	mg/L	0.013469	0.54446	mg/L	0.013469	2.47%
Pb 217.000†	546.8	0.74154	mg/L	0.018582	0.74154	mg/L	0.018582	2.51%
Se 203.985†	155.0	0.35097	mg/L	0.034314	0.35097	mg/L	0.034314	9.78%
Se 196.026†	144.2	0.29520	mg/L	0.021899	0.29520	mg/L	0.021899	7.42%
Zn 206.200†	12519.7	0.83619	mg/L	0.004390	0.83619	mg/L	0.004390	0.52%

Matrix Recovery Check: 1408893-001AMS

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09654	0.39601	0.001	mg/L	399.5
As 188.979	0.55774	0.41780	0.008	mg/L	72.0
As 193.696	0.24385	0.01851	0.011	mg/L	54.9
Ba 233.527	3.3679	3.6967	0.004	mg/L	165.7
Cd 228.802	0.49904	0.37417	0.007	mg/L	75.0
Cd 226.502	0.49013	0.33492	0.002	mg/L	69.0
Cr 267.716	0.66043	0.55785	0.002	mg/L	79.5
Cr 205.560	0.63506	0.52806	0.009	mg/L	78.6
Cu 324.752	0.61576	0.54198	0.002	mg/L	85.2
Mo 202.031	0.50683	0.33857	0.007	mg/L	66.3
Ni 231.604	0.64588	0.48033	0.002	mg/L	66.9
Pb 220.353	0.70063	0.54446	0.013	mg/L	68.8
Pb 217.000	0.80559	0.74154	0.019	mg/L	87.2
Se 203.985	0.45331	0.35097	0.034	mg/L	79.5
Se 196.026	0.45426	0.29520	0.022	mg/L	68.2
Zn 206.200	0.97013	0.83619	0.004	mg/L	73.2

Sequence No.: 52
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/20/2014 8:05:12 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	546058.0	100.46	%	0.789				0.78%
Ag 328.068†	37296.5	0.48768	mg/L	0.000213	0.48768	mg/L	0.000213	0.04%
QC value within limits for Ag 328.068 Recovery = 97.54%								
As 188.979†	203.1	0.47011	mg/L	0.009620	0.47011	mg/L	0.009620	2.05%
QC value within limits for As 188.979 Recovery = 94.02%								
As 193.696†	237.1	0.47784	mg/L	0.010857	0.47784	mg/L	0.010857	2.27%
Ba 233.527†	19232.0	0.48341	mg/L	0.000232	0.48341	mg/L	0.000232	0.05%
QC value within limits for Ba 233.527 Recovery = 96.68%								
Cd 228.802†	4281.7	0.48787	mg/L	0.007661	0.48787	mg/L	0.007661	1.57%
QC value within limits for Cd 228.802 Recovery = 97.57%								
Cd 226.502†	12952.9	0.48217	mg/L	0.001325	0.48217	mg/L	0.001325	0.27%
Cr 267.716†	10481.4	0.48440	mg/L	0.000702	0.48440	mg/L	0.000702	0.14%
Cr 205.560†	8788.6	0.48179	mg/L	0.005334	0.48179	mg/L	0.005334	1.11%
QC value within limits for Cr 205.560 Recovery = 96.36%								
Cu 324.752†	48636.4	0.51142	mg/L	0.001255	0.51142	mg/L	0.001255	0.25%
QC value within limits for Cu 324.752 Recovery = 102.28%								
Mo 202.031†	2592.6	0.48152	mg/L	0.007373	0.48152	mg/L	0.007373	1.53%
QC value within limits for Mo 202.031 Recovery = 96.30%								
Ni 231.604†	7733.5	0.47800	mg/L	0.005657	0.47800	mg/L	0.005657	1.18%
QC value within limits for Ni 231.604 Recovery = 95.60%								
Pb 220.353†	1543.6	0.47773	mg/L	0.006638	0.47773	mg/L	0.006638	1.39%
QC value within limits for Pb 220.353 Recovery = 95.55%								
Pb 217.000†	354.1	0.48029	mg/L	0.013423	0.48029	mg/L	0.013423	2.79%
Se 203.985†	205.6	0.46538	mg/L	0.011790	0.46538	mg/L	0.011790	2.53%
Se 196.026†	239.1	0.48963	mg/L	0.018825	0.48963	mg/L	0.018825	3.84%
QC value within limits for Se 196.026 Recovery = 97.93%								
Zn 206.200†	7111.5	0.47497	mg/L	0.005651	0.47497	mg/L	0.005651	1.19%
QC value within limits for Zn 206.200 Recovery = 94.99%								

All analyte(s) passed QC.

Sequence No.: 53
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/20/2014 8:06:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	552218.4	101.59	%	0.152				0.15%
Ag 328.068†	9.8	0.00013	mg/L	0.000288	0.00013	mg/L	0.000288	223.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-3.8	-0.00874	mg/L	0.006630	-0.00874	mg/L	0.006630	75.84%
QC value within limits for As 188.979 Recovery = Not calculated								

As 193.696†	-2.0	-0.00408 mg/L	0.002079	-0.00408 mg/L	0.002079	50.88%
Ba 233.527†	-12.1	-0.00030 mg/L	0.000591	-0.00030 mg/L	0.000591	194.24%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Cd 228.802†	-4.1	-0.00047 mg/L	0.000187	-0.00047 mg/L	0.000187	39.58%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Cd 226.502†	-3.5	-0.00013 mg/L	0.000216	-0.00013 mg/L	0.000216	166.08%
Cr 267.716†	5.5	0.00025 mg/L	0.000318	0.00025 mg/L	0.000318	125.56%
Cr 205.560†	3.9	0.00021 mg/L	0.000207	0.00021 mg/L	0.000207	96.80%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Cu 324.752†	121.8	0.00128 mg/L	0.000121	0.00128 mg/L	0.000121	9.46%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Mo 202.031†	5.9	0.00110 mg/L	0.000535	0.00110 mg/L	0.000535	48.82%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Ni 231.604†	2.6	0.00016 mg/L	0.000583	0.00016 mg/L	0.000583	357.21%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-2.1	-0.00065 mg/L	0.000583	-0.00065 mg/L	0.000583	89.04%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Pb 217.000†	-3.2	-0.00439 mg/L	0.002905	-0.00439 mg/L	0.002905	66.19%
Se 203.985†	-6.5	-0.01472 mg/L	0.032260	-0.01472 mg/L	0.032260	219.18%
Se 196.026†	4.9	0.01004 mg/L	0.013551	0.01004 mg/L	0.013551	134.91%
QC value within limits for Se 196.026 Recovery = Not calculated						
Zn 206.200†	4.2	0.00028 mg/L	0.000167	0.00028 mg/L	0.000167	60.12%
QC value within limits for Zn 206.200 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 54
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/20/2014 8:07:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

8/20/14

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	550288.3	101.24	%	1.019				1.01%
Ag 328.068†	8.2	0.00011	mg/L	0.000188	0.00011	mg/L	0.000188	176.26%
As 188.979†	-2.3	-0.00533	mg/L	0.005525	-0.00533	mg/L	0.005525	103.69%
As 193.696†	-0.1	-0.00011	mg/L	0.002860	-0.00011	mg/L	0.002860	>999.9%
Ba 233.527†	-14.7	-0.00037	mg/L	0.000213	-0.00037	mg/L	0.000213	57.54%
Cd 228.802†	-3.0	-0.00034	mg/L	0.000223	-0.00034	mg/L	0.000223	65.16%
Cd 226.502†	0.6	0.00002	mg/L	0.000082	0.00002	mg/L	0.000082	388.58%
Cr 267.716†	-0.5	-0.00002	mg/L	0.000057	-0.00002	mg/L	0.000057	231.26%
Cr 205.560†	-7.1	-0.00039	mg/L	0.000646	-0.00039	mg/L	0.000646	164.99%
Cu 324.752†	66.0	0.00069	mg/L	0.000134	0.00069	mg/L	0.000134	19.37%
Mo 202.031†	3.9	0.00073	mg/L	0.000168	0.00073	mg/L	0.000168	22.94%
Ni 231.604†	1.5	0.00009	mg/L	0.000225	0.00009	mg/L	0.000225	240.85%
Pb 220.353†	-8.9	-0.00274	mg/L	0.001115	-0.00274	mg/L	0.001115	40.64%
Pb 217.000†	-0.1	-0.00018	mg/L	0.007227	-0.00018	mg/L	0.007227	>999.9%
Se 203.985†	-3.5	-0.00801	mg/L	0.015489	-0.00801	mg/L	0.015489	193.47%
Se 196.026†	4.1	0.00834	mg/L	0.008576	0.00834	mg/L	0.008576	102.84%
Zn 206.200†	12.7	0.00085	mg/L	0.000156	0.00085	mg/L	0.000156	18.40%

All analyte(s) passed QC.

Sequence No.: 55
Sample ID: 1408893-001AMSD
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 331
Date Collected: 8/20/2014 8:09:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001AMSD

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408893-001AMSD

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	622414.6	114.51	%	0.674				0.59%
Ag 328.068†	29577.1	0.38674	mg/L	0.001063	0.38674	mg/L	0.001063	0.27%
As 188.979†	183.1	0.42369	mg/L	0.009698	0.42369	mg/L	0.009698	2.29%
As 193.696†	3.9	0.00795	mg/L	0.003100	0.00795	mg/L	0.003100	39.00%
Ba 233.527†	147102.9	3.6975	mg/L	0.01063	3.6975	mg/L	0.01063	0.29%
Cd 228.802†	3211.0	0.36587	mg/L	0.001232	0.36587	mg/L	0.001232	0.34%
Cd 226.502†	8914.1	0.33182	mg/L	0.001957	0.33182	mg/L	0.001957	0.59%
Cr 267.716†	12068.8	0.55776	mg/L	0.002996	0.55776	mg/L	0.002996	0.54%
Cr 205.560†	9613.0	0.52699	mg/L	0.002989	0.52699	mg/L	0.002989	0.57%
Cu 324.752†	50888.5	0.53510	mg/L	0.001841	0.53510	mg/L	0.001841	0.34%
Mo 202.031†	1784.6	0.33145	mg/L	0.001173	0.33145	mg/L	0.001173	0.35%
Ni 231.604†	7780.4	0.48091	mg/L	0.000858	0.48091	mg/L	0.000858	0.18%
Pb 220.353†	1636.7	0.50653	mg/L	0.005028	0.50653	mg/L	0.005028	0.99%
Pb 217.000†	509.6	0.69111	mg/L	0.017672	0.69111	mg/L	0.017672	2.56%
Se 203.985†	136.8	0.30976	mg/L	0.011687	0.30976	mg/L	0.011687	3.77%
Se 196.026†	145.7	0.29829	mg/L	0.010700	0.29829	mg/L	0.010700	3.59%
Zn 206.200†	12732.2	0.85038	mg/L	0.006171	0.85038	mg/L	0.006171	0.73%

Matrix Recovery Check: 1408893-001AMSD

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09654	0.38674	0.001	mg/L	390.2
As 188.979	0.55774	0.42369	0.010	mg/L	73.2
As 193.696	0.24385	0.00795	0.003	mg/L	52.8
Ba 233.527	3.3679	3.6975	0.011	mg/L	165.9
Cd 228.802	0.49904	0.36587	0.001	mg/L	73.4
Cd 226.502	0.49013	0.33182	0.002	mg/L	68.3
Cr 267.716	0.66043	0.55776	0.003	mg/L	79.5
Cr 205.560	0.63506	0.52699	0.003	mg/L	78.4
Cu 324.752	0.61576	0.53510	0.002	mg/L	83.9
Mo 202.031	0.50683	0.33145	0.001	mg/L	64.9
Ni 231.604	0.64588	0.48091	0.001	mg/L	67.0
Pb 220.353	0.70063	0.50653	0.005	mg/L	61.2
Pb 217.000	0.80559	0.69111	0.018	mg/L	77.1
Se 203.985	0.45331	0.30976	0.012	mg/L	71.3
Se 196.026	0.45426	0.29829	0.011	mg/L	68.8
Zn 206.200	0.97013	0.85038	0.006	mg/L	76.1

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Sequence No.: 56
Sample ID: 1408893-001A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 332
Date Collected: 8/20/2014 8:10:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001A 2X

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408893-001A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	604135.8	111.14	%	0.461				0.41%
Ag 328.068†	-140.0	-0.00183	mg/L	0.000208	-0.00183	mg/L	0.000208	11.34%
As 188.979†	8.4	0.01942	mg/L	0.009691	0.01942	mg/L	0.009691	49.90%
As 193.696†	-58.6	-0.11802	mg/L	0.013201	-0.11802	mg/L	0.013201	11.19%
Ba 233.527†	65966.1	1.6581	mg/L	0.00491	1.6581	mg/L	0.00491	0.30%
Cd 228.802†	-8.5	-0.00096	mg/L	0.000756	-0.00096	mg/L	0.000756	78.46%

Cd 226.502†	-169.5	-0.00631 mg/L	0.000147	-0.00631 mg/L	0.000147	2.33%
Cr 267.716†	1995.9	0.09224 mg/L	0.000448	0.09224 mg/L	0.000448	0.49%
Cr 205.560†	1412.6	0.07744 mg/L	0.000786	0.07744 mg/L	0.000786	1.02%
Cu 324.752†	5926.8	0.06232 mg/L	0.000205	0.06232 mg/L	0.000205	0.33%
Mo 202.031†	21.4	0.00398 mg/L	0.000618	0.00398 mg/L	0.000618	15.53%
Ni 231.604†	1387.7	0.08577 mg/L	0.000709	0.08577 mg/L	0.000709	0.83%
Pb 220.353†	377.3	0.11677 mg/L	0.002803	0.11677 mg/L	0.002803	2.40%
Pb 217.000†	129.4	0.17554 mg/L	0.002101	0.17554 mg/L	0.002101	1.20%
Se 203.985†	-30.3	-0.06848 mg/L	0.017594	-0.06848 mg/L	0.017594	25.69%
Se 196.026†	-21.0	-0.04300 mg/L	0.008458	-0.04300 mg/L	0.008458	19.67%
Zn 206.200†	4257.6	0.28436 mg/L	0.000936	0.28436 mg/L	0.000936	0.33%

Sequence No.: 57
Sample ID: 1408893-001AMS 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 333
Date Collected: 8/20/2014 8:11:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001AMS 2X

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 1408893-001AMS 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	573575.3	105.52	%	1.152				1.09%
Ag 328.068†	16491.6	0.21564	mg/L	0.000696	0.21564	mg/L	0.000696	0.32%
As 188.979†	105.7	0.24474	mg/L	0.007493	0.24474	mg/L	0.007493	3.06%
As 193.696†	7.2	0.01460	mg/L	0.008876	0.01460	mg/L	0.008876	60.78%
Ba 233.527†	83657.2	2.1028	mg/L	0.00335	2.1028	mg/L	0.00335	0.16%
Cd 228.802†	1859.5	0.21188	mg/L	0.003600	0.21188	mg/L	0.003600	1.70%
Cd 226.502†	5228.6	0.19463	mg/L	0.002254	0.19463	mg/L	0.002254	1.16%
Cr 267.716†	6816.2	0.31501	mg/L	0.001239	0.31501	mg/L	0.001239	0.39%
Cr 205.560†	5492.2	0.30108	mg/L	0.004059	0.30108	mg/L	0.004059	1.35%
Cu 324.752†	27082.5	0.28478	mg/L	0.000532	0.28478	mg/L	0.000532	0.19%
Mo 202.031†	1037.6	0.19272	mg/L	0.003581	0.19272	mg/L	0.003581	1.86%
Ni 231.604†	4509.6	0.27874	mg/L	0.003791	0.27874	mg/L	0.003791	1.36%
Pb 220.353†	1045.8	0.32367	mg/L	0.005119	0.32367	mg/L	0.005119	1.58%
Pb 217.000†	301.8	0.40928	mg/L	0.005889	0.40928	mg/L	0.005889	1.44%
Se 203.985†	64.0	0.14487	mg/L	0.018997	0.14487	mg/L	0.018997	13.11%
Se 196.026†	85.7	0.17555	mg/L	0.025974	0.17555	mg/L	0.025974	14.80%
Zn 206.200†	7389.0	0.49351	mg/L	0.006774	0.49351	mg/L	0.006774	1.37%

Matrix Recovery Check: 1408893-001AMS 2X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09817	0.21564	0.001	mg/L	217.5
As 188.979	0.51942	0.24474	0.007	mg/L	45.1
As 193.696	0.38198	0.01460	0.009	mg/L	26.5
Ba 233.527	2.1581	2.1028	0.003	mg/L	88.9
Cd 228.802	0.49904	0.21188	0.004	mg/L	42.6
Cd 226.502	0.49369	0.19463	0.002	mg/L	40.2
Cr 267.716	0.59224	0.31501	0.001	mg/L	44.6
Cr 205.560	0.57744	0.30108	0.004	mg/L	44.7
Cu 324.752	0.56232	0.28478	0.001	mg/L	44.5
Mo 202.031	0.50398	0.19272	0.004	mg/L	37.7
Ni 231.604	0.58577	0.27874	0.004	mg/L	38.6
Pb 220.353	0.61677	0.32367	0.005	mg/L	41.4
Pb 217.000	0.67554	0.40928	0.006	mg/L	46.7
Se 203.985	0.43152	0.14487	0.019	mg/L	42.7
Se 196.026	0.45700	0.17555	0.026	mg/L	43.7
Zn 206.200	0.78436	0.49351	0.007	mg/L	41.8

Sequence No.: 58 **Autosampler Location: 334**

Sample ID: 1408893-001AMSD 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Date Collected: 8/20/2014 8:12:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-001AMSD 2X

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408893-001AMSD 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	586699.1	107.93	%	0.194				0.18%
Ag 328.068†	16361.3	0.21393	mg/L	0.000469	0.21393	mg/L	0.000469	0.22%
As 188.979†	99.7	0.23074	mg/L	0.013262	0.23074	mg/L	0.013262	5.75%
As 193.696†	2.0	0.00409	mg/L	0.008119	0.00409	mg/L	0.008119	198.69%
Ba 233.527†	84499.7	2.1239	mg/L	0.00419	2.1239	mg/L	0.00419	0.20%
Cd 228.802†	1827.5	0.20823	mg/L	0.000686	0.20823	mg/L	0.000686	0.33%
Cd 226.502†	5128.5	0.19091	mg/L	0.001339	0.19091	mg/L	0.001339	0.70%
Cr 267.716†	6874.9	0.31773	mg/L	0.000549	0.31773	mg/L	0.000549	0.17%
Cr 205.560†	5486.3	0.30076	mg/L	0.001184	0.30076	mg/L	0.001184	0.39%
Cu 324.752†	27347.5	0.28756	mg/L	0.001131	0.28756	mg/L	0.001131	0.39%
Mo 202.031†	1022.6	0.18992	mg/L	0.001505	0.18992	mg/L	0.001505	0.79%
Ni 231.604†	4503.9	0.27838	mg/L	0.000264	0.27838	mg/L	0.000264	0.09%
Pb 220.353†	969.2	0.29996	mg/L	0.000404	0.29996	mg/L	0.000404	0.13%
Pb 217.000†	285.2	0.38682	mg/L	0.016052	0.38682	mg/L	0.016052	4.15%
Se 203.985†	62.8	0.14216	mg/L	0.011045	0.14216	mg/L	0.011045	7.77%
Se 196.026†	81.3	0.16643	mg/L	0.005617	0.16643	mg/L	0.005617	3.37%
Zn 206.200†	7423.9	0.49584	mg/L	0.001800	0.49584	mg/L	0.001800	0.36%

Matrix Recovery Check: 1408893-001AMSD 2X

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.09817	0.21393	0.000	mg/L	215.8
As 188.979	0.51942	0.23074	0.013	mg/L	42.3
As 193.696	0.38198	0.00409	0.008	mg/L	24.4
Ba 233.527	2.1581	2.1239	0.004	mg/L	93.2
Cd 228.802	0.49904	0.20823	0.001	mg/L	41.8
Cd 226.502	0.49369	0.19091	0.001	mg/L	39.4
Cr 267.716	0.59224	0.31773	0.001	mg/L	45.1
Cr 205.560	0.57744	0.30076	0.001	mg/L	44.7
Cu 324.752	0.56232	0.28756	0.001	mg/L	45.0
Mo 202.031	0.50398	0.18992	0.002	mg/L	37.2
Ni 231.604	0.58577	0.27838	0.000	mg/L	38.5
Pb 220.353	0.61677	0.29996	0.000	mg/L	36.6
Pb 217.000	0.67554	0.38682	0.016	mg/L	42.3
Se 203.985	0.43152	0.14216	0.011	mg/L	42.1
Se 196.026	0.45700	0.16643	0.006	mg/L	41.9
Zn 206.200	0.78436	0.49584	0.002	mg/L	42.3

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Sequence No.: 59
Sample ID: 1408893-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 335
Date Collected: 8/20/2014 8:14:04 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-002A

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1408893-002A

Analyte	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	638937.9	117.55	%	0.924				0.79%
Ag 328.068†	-243.8	-0.00319	mg/L	0.000344	-0.00319	mg/L	0.000344	10.78%
As 188.979†	24.7	0.05714	mg/L	0.002629	0.05714	mg/L	0.002629	4.60%
As 193.696†	-148.8	-0.29984	mg/L	0.009423	-0.29984	mg/L	0.009423	3.14%
Ba 233.527†	132246.5	3.3241	mg/L	0.00587	3.3241	mg/L	0.00587	0.18%
Cd 228.802†	-10.7	-0.00122	mg/L	0.000731	-0.00122	mg/L	0.000731	60.14%
Cd 226.502†	-293.9	-0.01094	mg/L	0.000467	-0.01094	mg/L	0.000467	4.27%
Cr 267.716†	4098.0	0.18939	mg/L	0.000628	0.18939	mg/L	0.000628	0.33%
Cr 205.560†	2927.9	0.16051	mg/L	0.001840	0.16051	mg/L	0.001840	1.15%
Cu 324.752†	13254.7	0.13937	mg/L	0.000613	0.13937	mg/L	0.000613	0.44%
Mo 202.031†	33.3	0.00618	mg/L	0.000082	0.00618	mg/L	0.000082	1.34%
Ni 231.604†	2814.7	0.17397	mg/L	0.002494	0.17397	mg/L	0.002494	1.43%
Pb 220.353†	938.4	0.29043	mg/L	0.003715	0.29043	mg/L	0.003715	1.28%
Pb 217.000†	317.6	0.43072	mg/L	0.020746	0.43072	mg/L	0.020746	4.82%
Se 203.985†	-6.6	-0.01490	mg/L	0.030381	-0.01490	mg/L	0.030381	203.94%
Se 196.026†	-20.8	-0.04263	mg/L	0.006054	-0.04263	mg/L	0.006054	14.20%
Zn 206.200†	8526.0	0.56944	mg/L	0.002605	0.56944	mg/L	0.002605	0.46%

Sequence No.: 60
Sample ID: 1408893-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 336
Date Collected: 8/20/2014 8:15:20 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-002A 2X

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408893-002A 2X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	596690.6	109.77	%	0.476				0.43%
Ag 328.068†	-135.0	-0.00176	mg/L	0.000178	-0.00176	mg/L	0.000178	10.11%
As 188.979†	13.1	0.03021	mg/L	0.013824	0.03021	mg/L	0.013824	45.76%
As 193.696†	-91.7	-0.18487	mg/L	0.008037	-0.18487	mg/L	0.008037	4.35%
Ba 233.527†	76613.9	1.9257	mg/L	0.00191	1.9257	mg/L	0.00191	0.10%
Cd 228.802†	-6.2	-0.00071	mg/L	0.000235	-0.00071	mg/L	0.000235	33.25%
Cd 226.502†	-188.2	-0.00700	mg/L	0.000168	-0.00700	mg/L	0.000168	2.40%
Cr 267.716†	2369.3	0.10950	mg/L	0.000593	0.10950	mg/L	0.000593	0.54%
Cr 205.560†	1704.4	0.09343	mg/L	0.000394	0.09343	mg/L	0.000394	0.42%
Cu 324.752†	7100.9	0.07467	mg/L	0.000876	0.07467	mg/L	0.000876	1.17%
Mo 202.031†	25.8	0.00479	mg/L	0.000433	0.00479	mg/L	0.000433	9.03%
Ni 231.604†	1656.1	0.10236	mg/L	0.000934	0.10236	mg/L	0.000934	0.91%
Pb 220.353†	550.2	0.17028	mg/L	0.000710	0.17028	mg/L	0.000710	0.42%
Pb 217.000†	178.8	0.24253	mg/L	0.008996	0.24253	mg/L	0.008996	3.71%
Se 203.985†	-26.0	-0.05896	mg/L	0.014282	-0.05896	mg/L	0.014282	24.22%
Se 196.026†	-28.0	-0.05733	mg/L	0.011841	-0.05733	mg/L	0.011841	20.65%
Concentration less than lower limit for Se 196.026. Lower limit: -0.05 mg/L.								
Zn 206.200†	5059.2	0.33790	mg/L	0.001931	0.33790	mg/L	0.001931	0.57%

Sequence No.: 61
Sample ID: 1408893-003A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 337
Date Collected: 8/20/2014 8:16:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-003A

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408893-003A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	567571.9	104.42	%	0.473				0.45%
Ag 328.068†	-307.3	-0.00402	mg/L	0.000320	-0.00402	mg/L	0.000320	7.95%
As 188.979†	23.4	0.05426	mg/L	0.002933	0.05426	mg/L	0.002933	5.40%
As 193.696†	-84.1	-0.16938	mg/L	0.010902	-0.16938	mg/L	0.010902	6.44%
Ba 233.527†	144525.2	3.6327	mg/L	0.00769	3.6327	mg/L	0.00769	0.21%
Cd 228.802†	-11.8	-0.00135	mg/L	0.000490	-0.00135	mg/L	0.000490	36.40%
Cd 226.502†	-182.6	-0.00680	mg/L	0.000116	-0.00680	mg/L	0.000116	1.70%
Cr 267.716†	2437.5	0.11265	mg/L	0.000407	0.11265	mg/L	0.000407	0.36%
Cr 205.560†	1722.7	0.09444	mg/L	0.001620	0.09444	mg/L	0.001620	1.72%
Cu 324.752†	5555.5	0.05842	mg/L	0.000649	0.05842	mg/L	0.000649	1.11%
Mo 202.031†	29.5	0.00548	mg/L	0.001787	0.00548	mg/L	0.001787	32.58%
Ni 231.604†	1510.1	0.09334	mg/L	0.000249	0.09334	mg/L	0.000249	0.27%
Pb 220.353†	206.1	0.06378	mg/L	0.004555	0.06378	mg/L	0.004555	7.14%
Pb 217.000†	89.1	0.12087	mg/L	0.010886	0.12087	mg/L	0.010886	9.01%
Se 203.985†	4.8	0.01080	mg/L	0.011696	0.01080	mg/L	0.011696	108.32%
Se 196.026†	-22.4	-0.04579	mg/L	0.006247	-0.04579	mg/L	0.006247	13.64%
Zn 206.200†	4849.4	0.32389	mg/L	0.000818	0.32389	mg/L	0.000818	0.25%

Sequence No.: 62
Sample ID: 1408893-003A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 338
Date Collected: 8/20/2014 8:17:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408893-003A 2X

Analyte	Back Pressure	Flow
All	241.0 kPa	0.55 L/min

Mean Data: 1408893-003A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	560811.5	103.17	%	0.664				0.64%
Ag 328.068†	-154.2	-0.00202	mg/L	0.000462	-0.00202	mg/L	0.000462	22.89%
As 188.979†	10.8	0.02500	mg/L	0.006660	0.02500	mg/L	0.006660	26.64%
As 193.696†	-40.2	-0.08102	mg/L	0.005025	-0.08102	mg/L	0.005025	6.20%
Ba 233.527†	79342.0	1.9943	mg/L	0.00554	1.9943	mg/L	0.00554	0.28%
Cd 228.802†	-10.4	-0.00118	mg/L	0.000600	-0.00118	mg/L	0.000600	50.82%
Cd 226.502†	-109.0	-0.00406	mg/L	0.000086	-0.00406	mg/L	0.000086	2.11%
Cr 267.716†	1323.1	0.06115	mg/L	0.000446	0.06115	mg/L	0.000446	0.73%
Cr 205.560†	897.0	0.04917	mg/L	0.000836	0.04917	mg/L	0.000836	1.70%
Cu 324.752†	2887.2	0.03036	mg/L	0.000236	0.03036	mg/L	0.000236	0.78%
Mo 202.031†	16.0	0.00297	mg/L	0.001202	0.00297	mg/L	0.001202	40.51%
Ni 231.604†	831.6	0.05140	mg/L	0.000332	0.05140	mg/L	0.000332	0.65%
Pb 220.353†	120.9	0.03743	mg/L	0.001221	0.03743	mg/L	0.001221	3.26%
Pb 217.000†	44.6	0.06051	mg/L	0.005474	0.06051	mg/L	0.005474	9.05%
Se 203.985†	-22.8	-0.05160	mg/L	0.008883	-0.05160	mg/L	0.008883	17.21%
Se 196.026†	-2.5	-0.00511	mg/L	0.018483	-0.00511	mg/L	0.018483	361.83%
Zn 206.200†	2721.5	0.18176	mg/L	0.001056	0.18176	mg/L	0.001056	0.58%

Sequence No.: 63
Sample ID: 1408827-002A
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 339
Date Collected: 8/20/2014 8:19:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408827-002A

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408827-002A

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	497910.1	91.600	%	1.0975				1.20%
Ag 328.068†	4750.7	0.06212	mg/L	0.000472	0.06212	mg/L	0.000472	0.76%
As 188.979†	17.5	0.04057	mg/L	0.014010	0.04057	mg/L	0.014010	34.53%
As 193.696†	2.3	0.00461	mg/L	0.010547	0.00461	mg/L	0.010547	228.90%
Ba 233.527†	101776.1	2.5582	mg/L	0.00442	2.5582	mg/L	0.00442	0.17%
Cd 228.802†	33.4	0.00381	mg/L	0.000526	0.00381	mg/L	0.000526	13.80%
Cd 226.502†	-221.1	-0.00823	mg/L	0.000350	-0.00823	mg/L	0.000350	4.25%
Cr 267.716†	5386.1	0.24892	mg/L	0.003222	0.24892	mg/L	0.003222	1.29%
Cr 205.560†	3763.5	0.20631	mg/L	0.004512	0.20631	mg/L	0.004512	2.19%
Cu 324.752†	229401.1	2.4122	mg/L	0.00165	2.4122	mg/L	0.00165	0.07%
Mo 202.031†	535.3	0.09942	mg/L	0.001360	0.09942	mg/L	0.001360	1.37%
Ni 231.604†	1650.3	0.10201	mg/L	0.002526	0.10201	mg/L	0.002526	2.48%
Pb 220.353†	422.5	0.13078	mg/L	0.004091	0.13078	mg/L	0.004091	3.13%
Pb 217.000†	68.3	0.09268	mg/L	0.006385	0.09268	mg/L	0.006385	6.89%
Se 203.985†	-44.4	-0.10052	mg/L	0.008035	-0.10052	mg/L	0.008035	7.99%
Se 196.026†	-0.1	-0.00017	mg/L	0.028178	-0.00017	mg/L	0.028178	>999.9%
Zn 206.200†	49389.3	3.2987	mg/L	0.00496	3.2987	mg/L	0.00496	0.15%

Sequence No.: 64
Sample ID: 1408827-002A 2X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 340
Date Collected: 8/20/2014 8:20:21 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408827-002A 2X

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: 1408827-002A 2X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	519503.5	95.573	%	0.4959				0.52%
Ag 328.068†	2306.5	0.03016	mg/L	0.000350	0.03016	mg/L	0.000350	1.16%
As 188.979†	6.8	0.01584	mg/L	0.009926	0.01584	mg/L	0.009926	62.66%
As 193.696†	3.0	0.00598	mg/L	0.015750	0.00598	mg/L	0.015750	263.27%
Ba 233.527†	50638.3	1.2728	mg/L	0.00307	1.2728	mg/L	0.00307	0.24%
Cd 228.802†	17.2	0.00196	mg/L	0.000234	0.00196	mg/L	0.000234	11.93%
Cd 226.502†	-119.5	-0.00445	mg/L	0.000092	-0.00445	mg/L	0.000092	2.07%
Cr 267.716†	2699.7	0.12477	mg/L	0.001217	0.12477	mg/L	0.001217	0.98%
Cr 205.560†	1867.0	0.10235	mg/L	0.002103	0.10235	mg/L	0.002103	2.06%
Cu 324.752†	110629.3	1.1633	mg/L	0.00205	1.1633	mg/L	0.00205	0.18%
Mo 202.031†	262.0	0.04866	mg/L	0.001630	0.04866	mg/L	0.001630	3.35%
Ni 231.604†	829.8	0.05129	mg/L	0.001022	0.05129	mg/L	0.001022	1.99%
Pb 220.353†	216.9	0.06712	mg/L	0.000595	0.06712	mg/L	0.000595	0.89%
Pb 217.000†	35.7	0.04835	mg/L	0.007930	0.04835	mg/L	0.007930	16.40%
Se 203.985†	-25.5	-0.05763	mg/L	0.015132	-0.05763	mg/L	0.015132	26.26%
Se 196.026†	11.1	0.02275	mg/L	0.015017	0.02275	mg/L	0.015017	66.02%
Zn 206.200†	25052.8	1.6733	mg/L	0.00846	1.6733	mg/L	0.00846	0.51%

Sequence No.: 65
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 2
Date Collected: 8/20/2014 8:21:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	543451.9	99.979	%	1.8444				1.84%
Ag 328.068†	37329.2	0.48811	mg/L	0.001413	0.48811	mg/L	0.001413	0.29%
QC value within limits for Ag 328.068 Recovery = 97.62%								
As 188.979†	202.3	0.46820	mg/L	0.000857	0.46820	mg/L	0.000857	0.18%
QC value within limits for As 188.979 Recovery = 93.64%								
As 193.696†	241.6	0.48690	mg/L	0.016985	0.48690	mg/L	0.016985	3.49%
Ba 233.527†	19323.9	0.48572	mg/L	0.002212	0.48572	mg/L	0.002212	0.46%
QC value within limits for Ba 233.527 Recovery = 97.14%								
Cd 228.802†	4323.4	0.49262	mg/L	0.006264	0.49262	mg/L	0.006264	1.27%
QC value within limits for Cd 228.802 Recovery = 98.52%								
Cd 226.502†	13033.8	0.48518	mg/L	0.002860	0.48518	mg/L	0.002860	0.59%
Cr 267.716†	10493.3	0.48495	mg/L	0.001602	0.48495	mg/L	0.001602	0.33%
Cr 205.560†	8847.4	0.48501	mg/L	0.006596	0.48501	mg/L	0.006596	1.36%
QC value within limits for Cr 205.560 Recovery = 97.00%								
Cu 324.752†	48988.5	0.51512	mg/L	0.000682	0.51512	mg/L	0.000682	0.13%
QC value within limits for Cu 324.752 Recovery = 103.02%								
Mo 202.031†	2605.7	0.48395	mg/L	0.006729	0.48395	mg/L	0.006729	1.39%
QC value within limits for Mo 202.031 Recovery = 96.79%								
Ni 231.604†	7792.4	0.48165	mg/L	0.007188	0.48165	mg/L	0.007188	1.49%
QC value within limits for Ni 231.604 Recovery = 96.33%								
Pb 220.353†	1547.1	0.47881	mg/L	0.006434	0.47881	mg/L	0.006434	1.34%
QC value within limits for Pb 220.353 Recovery = 95.76%								
Pb 217.000†	353.9	0.47999	mg/L	0.012914	0.47999	mg/L	0.012914	2.69%
Se 203.985†	212.1	0.48022	mg/L	0.010203	0.48022	mg/L	0.010203	2.12%
Se 196.026†	231.7	0.47445	mg/L	0.006835	0.47445	mg/L	0.006835	1.44%
QC value within limits for Se 196.026 Recovery = 94.89%								
Zn 206.200†	7181.1	0.47962	mg/L	0.007210	0.47962	mg/L	0.007210	1.50%
QC value within limits for Zn 206.200 Recovery = 95.92%								

All analyte(s) passed QC.

Sequence No.: 66
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/20/2014 8:22:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	239.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	539726.0	99.293	%	0.5704				0.57%
Ag 328.068†	9.1	0.00012	mg/L	0.000419	0.00012	mg/L	0.000419	353.93%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-1.8	-0.00407	mg/L	0.006676	-0.00407	mg/L	0.006676	164.23%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-1.2	-0.00242	mg/L	0.002978	-0.00242	mg/L	0.002978	123.16%
Ba 233.527†	-18.2	-0.00046	mg/L	0.000240	-0.00046	mg/L	0.000240	52.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	0.3	0.00004	mg/L	0.000442	0.00004	mg/L	0.000442	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	2.4	0.00009	mg/L	0.000128	0.00009	mg/L	0.000128	145.65%
Cr 267.716†	-5.5	-0.00025	mg/L	0.000519	-0.00025	mg/L	0.000519	204.98%
Cr 205.560†	-3.7	-0.00020	mg/L	0.000096	-0.00020	mg/L	0.000096	47.82%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	97.6	0.00103	mg/L	0.000161	0.00103	mg/L	0.000161	15.71%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	8.0	0.00149	mg/L	0.000268	0.00149	mg/L	0.000268	17.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	2.5	0.00016	mg/L	0.000182	0.00016	mg/L	0.000182	116.31%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-6.4	-0.00199	mg/L	0.000078	-0.00199	mg/L	0.000078	3.91%

QC value within limits for Pb 220.353 Recovery = Not calculated

Pb 217.000†	-2.4	-0.00319	mg/L	0.002362	-0.00319	mg/L	0.002362 74.02%
Se 203.985†	-1.0	-0.00226	mg/L	0.021763	-0.00226	mg/L	0.021763 963.42%
Se 196.026†	1.4	0.00285	mg/L	0.009867	0.00285	mg/L	0.009867 346.79%

QC value within limits for Se 196.026 Recovery = Not calculated

Zn 206.200†	4.1	0.00028	mg/L	0.000168	0.00028	mg/L	0.000168 60.96%

QC value within limits for Zn 206.200 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 67
Sample ID: CCV CAT
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 3
Date Collected: 8/20/2014 8:24:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

8/20/14 BL

Nebulizer Parameters: CCV CAT

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: CCV CAT

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	542925.6	99.882	%	0.6846				0.69%
Ag 328.068†	19.7	0.00026	mg/L	0.000277	0.00026	mg/L	0.000277	107.43%
As 188.979†	1.5	0.00354	mg/L	0.007696	0.00354	mg/L	0.007696	217.48%
As 193.696†	-4.0	-0.00796	mg/L	0.005127	-0.00796	mg/L	0.005127	64.40%
Ba 233.527†	-3.9	-0.00010	mg/L	0.000250	-0.00010	mg/L	0.000250	254.06%
Cd 228.802†	-1.1	-0.00012	mg/L	0.000425	-0.00012	mg/L	0.000425	343.93%
Cd 226.502†	-3.1	-0.00012	mg/L	0.000090	-0.00012	mg/L	0.000090	78.02%
Cr 267.716†	3.8	0.00018	mg/L	0.000223	0.00018	mg/L	0.000223	126.63%
Cr 205.560†	-4.1	-0.00022	mg/L	0.000315	-0.00022	mg/L	0.000315	140.57%
Cu 324.752†	95.0	0.00100	mg/L	0.000213	0.00100	mg/L	0.000213	21.36%
Mo 202.031†	2.4	0.00045	mg/L	0.000779	0.00045	mg/L	0.000779	173.27%
Ni 231.604†	4.7	0.00029	mg/L	0.000354	0.00029	mg/L	0.000354	122.00%
Pb 220.353†	-6.5	-0.00201	mg/L	0.002785	-0.00201	mg/L	0.002785	138.84%
Pb 217.000†	-2.8	-0.00385	mg/L	0.001903	-0.00385	mg/L	0.001903	49.48%
Se 203.985†	-2.1	-0.00477	mg/L	0.025976	-0.00477	mg/L	0.025976	544.12%
Se 196.026†	7.6	0.01549	mg/L	0.005072	0.01549	mg/L	0.005072	32.74%
Zn 206.200†	13.8	0.00093	mg/L	0.000336	0.00093	mg/L	0.000336	36.31%

All analyte(s) passed QC.

Sequence No.: 68
Sample ID: 1408468-006B 5X
Analyst: ERIC
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 341
Date Collected: 8/20/2014 8:25:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: 1408468-006B 5X

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408468-006B 5X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	565642.6	104.06	%	1.411				1.36%
Ag 328.068†	4.9	0.00006	mg/L	0.000342	0.00006	mg/L	0.000342	530.01%
As 188.979†	5.3	0.01236	mg/L	0.003578	0.01236	mg/L	0.003578	28.95%
As 193.696†	-80.3	-0.16180	mg/L	0.004636	-0.16180	mg/L	0.004636	2.87%
Ba 233.527†	91819.0	2.3079	mg/L	0.00415	2.3079	mg/L	0.00415	0.18%
Cd 228.802†	-5.0	-0.00057	mg/L	0.000136	-0.00057	mg/L	0.000136	23.69%
Cd 226.502†	-115.8	-0.00431	mg/L	0.000199	-0.00431	mg/L	0.000199	4.62%
Cr 267.716†	1234.6	0.05706	mg/L	0.000718	0.05706	mg/L	0.000718	1.26%

Cr 205.560†	859.7	0.04713 mg/L	0.000517	0.04713 mg/L	0.000517	1.10%
Cu 324.752†	3289.1	0.03459 mg/L	0.000497	0.03459 mg/L	0.000497	1.44%
Mo 202.031†	11.7	0.00217 mg/L	0.000262	0.00217 mg/L	0.000262	12.07%
Ni 231.604†	709.1	0.04383 mg/L	0.001222	0.04383 mg/L	0.001222	2.79%
Pb 220.353†	63.9	0.01978 mg/L	0.001387	0.01978 mg/L	0.001387	7.01%
Pb 217.000†	43.5	0.05905 mg/L	0.010953	0.05905 mg/L	0.010953	18.55%
Se 203.985†	-31.7	-0.07183 mg/L	0.010834	-0.07183 mg/L	0.010834	15.08%
Se 196.026†	-2.6	-0.00532 mg/L	0.016254	-0.00532 mg/L	0.016254	305.57%
Zn 206.200†	2743.7	0.18325 mg/L	0.004300	0.18325 mg/L	0.004300	2.35%

Sequence No.: 69 **Autosampler Location: 342**
Sample ID: 1408893-001APS **Date Collected: 8/20/2014 8:26:44 AM**
Analyst: ERIC **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: 1408893-001APS

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 1408893-001APS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	640619.9	117.85	%	1.286				1.09%
Ag 328.068†	27806.5	0.36359	mg/L	0.000682	0.36359	mg/L	0.000682	0.19%
As 188.979†	170.5	0.39452	mg/L	0.006686	0.39452	mg/L	0.006686	1.69%
As 193.696†	58.4	0.11762	mg/L	0.022918	0.11762	mg/L	0.022918	19.49%
Ba 233.527†	126744.3	3.1858	mg/L	0.00650	3.1858	mg/L	0.00650	0.20%
Cd 228.802†	3037.9	0.34614	mg/L	0.004161	0.34614	mg/L	0.004161	1.20%
Cd 226.502†	8497.8	0.31633	mg/L	0.000395	0.31633	mg/L	0.000395	0.12%
Cr 267.716†	10715.9	0.49524	mg/L	0.001530	0.49524	mg/L	0.001530	0.31%
Cr 205.560†	8518.2	0.46697	mg/L	0.005524	0.46697	mg/L	0.005524	1.18%
Cu 324.752†	48059.8	0.50535	mg/L	0.000664	0.50535	mg/L	0.000664	0.13%
Mo 202.031†	1907.1	0.35421	mg/L	0.006479	0.35421	mg/L	0.006479	1.83%
Ni 231.604†	7381.5	0.45625	mg/L	0.002442	0.45625	mg/L	0.002442	0.54%
Pb 220.353†	1654.2	0.51197	mg/L	0.006276	0.51197	mg/L	0.006276	1.23%
Pb 217.000†	483.5	0.65576	mg/L	0.014744	0.65576	mg/L	0.014744	2.25%
Se 203.985†	145.7	0.32991	mg/L	0.006606	0.32991	mg/L	0.006606	2.00%
Se 196.026†	148.6	0.30436	mg/L	0.006561	0.30436	mg/L	0.006561	2.16%
Zn 206.200†	11756.3	0.78519	mg/L	0.005820	0.78519	mg/L	0.005820	0.74%

Sequence No.: 70 **Autosampler Location: 2**
Sample ID: CCV **Date Collected: 8/20/2014 8:27:59 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 20 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	545194.8	100.30	%	0.592				0.59%
Ag 328.068†	37392.7	0.48894	mg/L	0.001353	0.48894	mg/L	0.001353	0.28%
QC value within limits for Ag 328.068 Recovery = 97.79%								
As 188.979†	198.8	0.46009	mg/L	0.013397	0.46009	mg/L	0.013397	2.91%
QC value within limits for As 188.979 Recovery = 92.02%								
As 193.696†	237.8	0.47909	mg/L	0.007420	0.47909	mg/L	0.007420	1.55%
Ba 233.527†	19282.9	0.48468	mg/L	0.001065	0.48468	mg/L	0.001065	0.22%
QC value within limits for Ba 233.527 Recovery = 96.94%								

Cd 228.802†	4283.3	0.48806 mg/L	0.003767	0.48806 mg/L	0.003767	0.77%
QC value within limits for Cd 228.802 Recovery = 97.61%						
Cd 226.502†	13087.6	0.48718 mg/L	0.000855	0.48718 mg/L	0.000855	0.18%
Cr 267.716†	10500.8	0.48530 mg/L	0.001023	0.48530 mg/L	0.001023	0.21%
Cr 205.560†	8764.0	0.48044 mg/L	0.003496	0.48044 mg/L	0.003496	0.73%
QC value within limits for Cr 205.560 Recovery = 96.09%						
Cu 324.752†	48832.1	0.51348 mg/L	0.001314	0.51348 mg/L	0.001314	0.26%
QC value within limits for Cu 324.752 Recovery = 102.70%						
Mo 202.031†	2583.8	0.47989 mg/L	0.002110	0.47989 mg/L	0.002110	0.44%
QC value within limits for Mo 202.031 Recovery = 95.98%						
Ni 231.604†	7747.6	0.47888 mg/L	0.003829	0.47888 mg/L	0.003829	0.80%
QC value within limits for Ni 231.604 Recovery = 95.78%						
Pb 220.353†	1540.7	0.47684 mg/L	0.001147	0.47684 mg/L	0.001147	0.24%
QC value within limits for Pb 220.353 Recovery = 95.37%						
Pb 217.000†	354.8	0.48123 mg/L	0.006030	0.48123 mg/L	0.006030	1.25%
Se 203.985†	206.4	0.46717 mg/L	0.015956	0.46717 mg/L	0.015956	3.42%
Se 196.026†	242.7	0.49695 mg/L	0.022307	0.49695 mg/L	0.022307	4.49%
QC value within limits for Se 196.026 Recovery = 99.39%						
Zn 206.200†	7114.1	0.47514 mg/L	0.003518	0.47514 mg/L	0.003518	0.74%
QC value within limits for Zn 206.200 Recovery = 95.03%						

All analyte(s) passed QC.

Sequence No.: 71
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 20

Autosampler Location: 1
Date Collected: 8/20/2014 8:29:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	541686.0	99.654	%	0.4731				0.47%
Ag 328.068†	5.0	0.00007	mg/L	0.000500	0.00007	mg/L	0.000500	760.85%
QC value within limits for Ag 328.068 Recovery = Not calculated								
As 188.979†	-4.0	-0.00931	mg/L	0.011452	-0.00931	mg/L	0.011452	123.04%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	-2.0	-0.00401	mg/L	0.006060	-0.00401	mg/L	0.006060	151.13%
Ba 233.527†	-13.3	-0.00033	mg/L	0.000201	-0.00033	mg/L	0.000201	60.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 228.802†	0.1	0.00001	mg/L	0.000362	0.00001	mg/L	0.000362	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Cd 226.502†	-5.9	-0.00022	mg/L	0.000175	-0.00022	mg/L	0.000175	80.24%
Cr 267.716†	3.7	0.00017	mg/L	0.000087	0.00017	mg/L	0.000087	50.46%
Cr 205.560†	-7.4	-0.00041	mg/L	0.000441	-0.00041	mg/L	0.000441	107.94%
QC value within limits for Cr 205.560 Recovery = Not calculated								
Cu 324.752†	96.1	0.00101	mg/L	0.000236	0.00101	mg/L	0.000236	23.31%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Mo 202.031†	6.8	0.00127	mg/L	0.000489	0.00127	mg/L	0.000489	38.61%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Ni 231.604†	4.0	0.00025	mg/L	0.000508	0.00025	mg/L	0.000508	205.12%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.9	-0.00090	mg/L	0.002641	-0.00090	mg/L	0.002641	292.76%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Pb 217.000†	-1.8	-0.00249	mg/L	0.002025	-0.00249	mg/L	0.002025	81.47%
Se 203.985†	-4.1	-0.00925	mg/L	0.021009	-0.00925	mg/L	0.021009	227.14%
Se 196.026†	9.0	0.01840	mg/L	0.011286	0.01840	mg/L	0.011286	61.35%
QC value within limits for Se 196.026 Recovery = Not calculated								
Zn 206.200†	3.4	0.00023	mg/L	0.000163	0.00023	mg/L	0.000163	70.92%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.
User canceled analysis.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 15, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1406D88

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1406D88**
Date: **7/15/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.
HEAL samples -002, -005, -006, -007 were brought to a final volume of 10mls due to the matrix. Surrogates were not recoverable for these samples becaue of the matrix and the dilution.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0001
Project: Kirtland AFB
Collection Date: 6/30/2014 10:29:00 AM
Lab ID: 1406D88-001
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	17	6.1	11		mg/Kg-dr	1	7/1/2014 2:08:37 PM	13991
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	7/1/2014 2:08:37 PM	13991
Surr: DNOP	80.2	0	57.9-140		%REC	1	7/1/2014 2:08:37 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	10	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	14	0.21	0.28		mg/Kg-dr	1	7/2/2014 12:20:18 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Aniline	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Benz(a)anthracene	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Benzo(b)fluoranthene	ND	0.076	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Benzo(g,h,i)perylene	ND	0.067	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Bis(2-ethylhexyl)phthalate	0.10	0.074	0.55	J	mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Chloro-3-methylphenol	ND	0.059	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Chloroaniline	ND	0.059	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Di-n-butyl phthalate	ND	0.050	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0001
Project: Kirtland AFB
Collection Date: 6/30/2014 10:29:00 AM
Lab ID: 1406D88-001
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4-Dinitrotoluene	ND	0.082	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,6-Dinitrotoluene	ND	0.066	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Indeno(1,2,3-cd)pyrene	ND	0.073	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Isophorone	ND	0.073	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Nitrobenzene	ND	0.062	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Pentachlorophenol	ND	0.090	0.44		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Phenol	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	7/2/2014 1:18:57 PM	14001
Surr: 2-Fluorophenol	53.2		27.9-127		%REC	1	7/2/2014 1:18:57 PM	14001
Surr: Phenol-d5	56.8		24.5-126		%REC	1	7/2/2014 1:18:57 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0001
Project: Kirtland AFB
Collection Date: 6/30/2014 10:29:00 AM
Lab ID: 1406D88-001
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	47.7		27.6-136		%REC	1	7/2/2014 1:18:57 PM	14001
Surr: Nitrobenzene-d5	62.5		23.5-128		%REC	1	7/2/2014 1:18:57 PM	14001
Surr: 2-Fluorobiphenyl	64.6		22.6-132		%REC	1	7/2/2014 1:18:57 PM	14001
Surr: 4-Terphenyl-d14	59.9		28.1-128		%REC	1	7/2/2014 1:18:57 PM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Toluene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Ethylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Xylenes, Total	ND	0.00133	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2,4-Trimethylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,3,5-Trimethylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2-Dichloroethane (EDC)	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2-Dibromoethane (EDB)	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Naphthalene	ND	0.00133	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Acetone	0.0184	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Bromobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Bromodichloromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Bromoform	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Bromomethane	0.00136	0.000665	0.00332	J	mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
2-Butanone	ND	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Carbon tetrachloride	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Chlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Chloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Chloroform	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Chloromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
2-Chlorotoluene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Carbon disulfide	ND	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
4-Chlorotoluene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
cis-1,2-DCE	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
cis-1,3-Dichloropropene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2-Dibromo-3-chloropropane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Dibromochloromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Dibromomethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2-Dichlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,3-Dichlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,4-Dichlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Dichlorodifluoromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1-Dichloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0001
Project: Kirtland AFB
Collection Date: 6/30/2014 10:29:00 AM
Lab ID: 1406D88-001
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2-Dichloropropane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,3-Dichloropropane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
2,2-Dichloropropane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1-Dichloropropene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Hexachlorobutadiene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Isopropylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
4-Isopropyltoluene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Methylene chloride	ND	0.00133	0.00332		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
n-Butylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
2-Hexanone	ND	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
n-Propylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
sec-Butylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Styrene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
4-Methyl-2-pentanone	ND	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
tert-Butylbenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1,1,2-Tetrachloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1,2,2-Tetrachloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Tetrachloroethene (PCE)	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
trans-1,2-DCE	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
trans-1,3-Dichloropropene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2,3-Trichlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2,4-Trichlorobenzene	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1,1-Trichloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,1,2-Trichloroethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Trichloroethene (TCE)	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Trichlorofluoromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
1,2,3-Trichloropropane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Vinyl chloride	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Vinyl acetate	ND	0.00665	0.00665		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Bromochloromethane	ND	0.000665	0.00133		mg/Kg-dr	1	7/1/2014 11:36:21 PM	14008
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	7/1/2014 11:36:21 PM	14008
Surr: 4-Bromofluorobenzene	102	0	65.3-135		%REC	1	7/1/2014 11:36:21 PM	14008
Surr: Dibromofluoromethane	103	0	70-130		%REC	1	7/1/2014 11:36:21 PM	14008
Surr: Toluene-d8	99.3	0	70-130		%REC	1	7/1/2014 11:36:21 PM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.45	3.5		mg/Kg-dr	1	7/2/2014 3:54:26 PM	R19656
Surr: BFB	111	0	61.2-137		%REC	1	7/2/2014 3:54:26 PM	R19656

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0002
Project: Kirtland AFB
Collection Date: 6/30/2014 10:36:00 AM
Lab ID: 1406D88-002
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	9.5	5.9	11	J	mg/Kg-dr	1	7/2/2014 9:11:32 AM	13991
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/2/2014 9:11:32 AM	13991
Surr: DNOP	87.5	0	57.9-140		%REC	1	7/2/2014 9:11:32 AM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.2	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	18	0.20	0.27		mg/Kg-dr	1	7/2/2014 12:28:08 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Acenaphthylene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Aniline	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Anthracene	2.2	0.46	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Benz(a)anthracene	9.8	0.58	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Benzo(a)pyrene	9.9	0.65	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Benzo(b)fluoranthene	12	0.74	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Benzo(g,h,i)perylene	4.4	0.65	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Benzo(k)fluoranthene	6.3	0.82	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Bis(2-chloroethoxy)methane	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Bis(2-chloroethyl)ether	ND	0.86	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Bis(2-chloroisopropyl)ether	ND	0.40	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Bis(2-ethylhexyl)phthalate	ND	0.72	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Bromophenyl phenyl ether	ND	0.54	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Butyl benzyl phthalate	ND	0.46	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Carbazole	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Chloro-3-methylphenol	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Chloroaniline	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Chloronaphthalene	ND	0.61	1.3		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Chlorophenol	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Chlorophenyl phenyl ether	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Chrysene	14	0.55	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Di-n-butyl phthalate	ND	0.48	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Di-n-octyl phthalate	ND	2.7	3.2		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Dibenz(a,h)anthracene	1.6	0.64	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Dibenzofuran	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
1,2-Dichlorobenzene	ND	0.42	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
1,3-Dichlorobenzene	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
1,4-Dichlorobenzene	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
3,3´-Dichlorobenzidine	ND	0.59	1.3		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0002
Project: Kirtland AFB
Collection Date: 6/30/2014 10:36:00 AM
Lab ID: 1406D88-002
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Dimethyl phthalate	ND	0.60	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4-Dichlorophenol	ND	0.66	2.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4-Dimethylphenol	ND	0.64	1.6		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4,6-Dinitro-2-methylphenol	ND	0.44	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4-Dinitrophenol	ND	0.76	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4-Dinitrotoluene	ND	0.79	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,6-Dinitrotoluene	ND	0.64	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Fluoranthene	19	0.48	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Fluorene	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Hexachlorobenzene	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Hexachlorobutadiene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Hexachlorocyclopentadiene	ND	0.69	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Hexachloroethane	ND	0.75	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Indeno(1,2,3-cd)pyrene	4.8	0.71	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Isophorone	ND	0.70	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Methylnaphthalene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Methylphenol	ND	0.61	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
3+4-Methylphenol	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
N-Nitrosodi-n-propylamine	ND	0.71	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
N-Nitrosodimethylamine	ND	0.81	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
N-Nitrosodiphenylamine	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Naphthalene	ND	0.51	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Nitroaniline	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
3-Nitroaniline	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Nitroaniline	ND	0.52	2.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Nitrobenzene	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2-Nitrophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
4-Nitrophenol	ND	0.66	1.3		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Pentachlorophenol	ND	0.87	2.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Phenanthrene	5.8	0.39	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Phenol	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Pyrene	18	0.58	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Pyridine	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
1,2,4-Trichlorobenzene	ND	0.62	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4,5-Trichlorophenol	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
2,4,6-Trichlorophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 1:48:03 PM	14001
Surr: 2-Fluorophenol	0		27.9-127	S	%REC	1	7/2/2014 1:48:03 PM	14001
Surr: Phenol-d5	0		24.5-126	S	%REC	1	7/2/2014 1:48:03 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0002
Project: Kirtland AFB
Collection Date: 6/30/2014 10:36:00 AM
Lab ID: 1406D88-002
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		27.6-136	S	%REC	1	7/2/2014 1:48:03 PM	14001
Surr: Nitrobenzene-d5	0		23.5-128	S	%REC	1	7/2/2014 1:48:03 PM	14001
Surr: 2-Fluorobiphenyl	0		22.6-132	S	%REC	1	7/2/2014 1:48:03 PM	14001
Surr: 4-Terphenyl-d14	0		28.1-128	S	%REC	1	7/2/2014 1:48:03 PM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Toluene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Ethylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Xylenes, Total	ND	0.00136	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2,4-Trimethylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,3,5-Trimethylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Naphthalene	ND	0.00136	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Acetone	0.0127	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Bromobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Bromodichloromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Bromoform	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Bromomethane	0.00153	0.000678	0.00339	J	mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
2-Butanone	ND	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Carbon tetrachloride	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Chlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Chloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Chloroform	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Chloromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
2-Chlorotoluene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Carbon disulfide	ND	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
4-Chlorotoluene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
cis-1,2-DCE	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
cis-1,3-Dichloropropene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Dibromochloromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Dibromomethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2-Dichlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,3-Dichlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,4-Dichlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Dichlorodifluoromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1-Dichloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0002
Project: Kirtland AFB
Collection Date: 6/30/2014 10:36:00 AM
Lab ID: 1406D88-002
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2-Dichloropropane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,3-Dichloropropane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
2,2-Dichloropropane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1-Dichloropropene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Hexachlorobutadiene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Isopropylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
4-Isopropyltoluene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Methylene chloride	ND	0.00136	0.00339		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
n-Butylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
2-Hexanone	ND	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
n-Propylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
sec-Butylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Styrene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
4-Methyl-2-pentanone	ND	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
tert-Butylbenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Tetrachloroethene (PCE)	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
trans-1,2-DCE	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
trans-1,3-Dichloropropene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2,3-Trichlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2,4-Trichlorobenzene	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1,1-Trichloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,1,2-Trichloroethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Trichloroethene (TCE)	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Trichlorofluoromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
1,2,3-Trichloropropane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Vinyl chloride	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Vinyl acetate	ND	0.00678	0.00678		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Bromochloromethane	ND	0.000678	0.00136		mg/Kg-dr	1	7/2/2014 12:06:10 AM	14008
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	7/2/2014 12:06:10 AM	14008
Surr: 4-Bromofluorobenzene	97.3	0	65.3-135		%REC	1	7/2/2014 12:06:10 AM	14008
Surr: Dibromofluoromethane	107	0	70-130		%REC	1	7/2/2014 12:06:10 AM	14008
Surr: Toluene-d8	99.0	0	70-130		%REC	1	7/2/2014 12:06:10 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.46	3.6		mg/Kg-dr	1	7/2/2014 4:22:39 PM	R19656
Surr: BFB	115	0	61.2-137		%REC	1	7/2/2014 4:22:39 PM	R19656

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0003
Project: Kirtland AFB
Collection Date: 6/30/2014 10:46:00 AM
Lab ID: 1406D88-003
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/2/2014 9:41:36 AM	13991
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/2/2014 9:41:36 AM	13991
Surr: DNOP	82.0	0	57.9-140		%REC	1	7/2/2014 9:41:36 AM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.4	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.6	0.20	0.26		mg/Kg-dr	1	7/2/2014 12:30:38 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Aniline	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Benz(a)anthracene	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Benzo(g,h,i)perylene	ND	0.065	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Benzo(k)fluoranthene	ND	0.081	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Bis(2-chloroethoxy)methane	ND	0.072	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Bis(2-chloroethyl)ether	ND	0.086	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Bis(2-chloroisopropyl)ether	ND	0.040	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Bis(2-ethylhexyl)phthalate	0.095	0.072	0.53	J	mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Bromophenyl phenyl ether	ND	0.054	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Chloronaphthalene	ND	0.061	0.27		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Di-n-butyl phthalate	ND	0.048	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
1,2-Dichlorobenzene	ND	0.042	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
3,3´-Dichlorobenzidine	ND	0.059	0.27		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0003
Project: Kirtland AFB
Collection Date: 6/30/2014 10:46:00 AM
Lab ID: 1406D88-003
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4,6-Dinitro-2-methylphenol	ND	0.044	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4-Dinitrotoluene	ND	0.079	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Fluoranthene	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Hexachloroethane	ND	0.075	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Indeno(1,2,3-cd)pyrene	ND	0.071	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
3+4-Methylphenol	ND	0.072	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
N-Nitrosodi-n-propylamine	ND	0.071	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
N-Nitrosodimethylamine	ND	0.081	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Naphthalene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Nitroaniline	ND	0.051	0.43		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Nitrobenzene	ND	0.060	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2-Nitrophenol	ND	0.059	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Pentachlorophenol	ND	0.087	0.43		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Phenanthrene	ND	0.039	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Phenol	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Pyrene	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
1,2,4-Trichlorobenzene	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 10:53:51 AM	14001
Surr: 2-Fluorophenol	41.8		27.9-127		%REC	1	7/2/2014 10:53:51 AM	14001
Surr: Phenol-d5	46.2		24.5-126		%REC	1	7/2/2014 10:53:51 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0003
Project: Kirtland AFB
Collection Date: 6/30/2014 10:46:00 AM
Lab ID: 1406D88-003
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	43.7		27.6-136		%REC	1	7/2/2014 10:53:51 AM	14001
Surr: Nitrobenzene-d5	48.0		23.5-128		%REC	1	7/2/2014 10:53:51 AM	14001
Surr: 2-Fluorobiphenyl	50.0		22.6-132		%REC	1	7/2/2014 10:53:51 AM	14001
Surr: 4-Terphenyl-d14	57.3		28.1-128		%REC	1	7/2/2014 10:53:51 AM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Toluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Ethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Xylenes, Total	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2,4-Trimethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,3,5-Trimethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Naphthalene	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Acetone	0.0183	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Bromobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Bromodichloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Bromoform	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Bromomethane	0.00110	0.000662	0.00331	J	mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
2-Butanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Carbon tetrachloride	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Chlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Chloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Chloroform	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Chloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
2-Chlorotoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Carbon disulfide	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
4-Chlorotoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
cis-1,2-DCE	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
cis-1,3-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Dibromochloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Dibromomethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,3-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,4-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Dichlorodifluoromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1-Dichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0003
Project: Kirtland AFB
Collection Date: 6/30/2014 10:46:00 AM
Lab ID: 1406D88-003
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,3-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
2,2-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Hexachlorobutadiene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Isopropylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
4-Isopropyltoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Methylene chloride	ND	0.00132	0.00331		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
n-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
2-Hexanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
n-Propylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
sec-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Styrene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
4-Methyl-2-pentanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
tert-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Tetrachloroethene (PCE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
trans-1,2-DCE	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
trans-1,3-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2,3-Trichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2,4-Trichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1,1-Trichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,1,2-Trichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Trichloroethene (TCE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Trichlorofluoromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
1,2,3-Trichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Vinyl chloride	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Vinyl acetate	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Bromochloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 12:35:55 AM	14008
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	7/2/2014 12:35:55 AM	14008
Surr: 4-Bromofluorobenzene	98.8	0	65.3-135		%REC	1	7/2/2014 12:35:55 AM	14008
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	7/2/2014 12:35:55 AM	14008
Surr: Toluene-d8	95.0	0	70-130		%REC	1	7/2/2014 12:35:55 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.43	3.3		mg/Kg-dr	1	7/2/2014 4:50:49 PM	R19656
Surr: BFB	113	0	61.2-137		%REC	1	7/2/2014 4:50:49 PM	R19656

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0004
Project: Kirtland AFB
Collection Date: 6/30/2014 10:55:00 AM
Lab ID: 1406D88-004
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	29	5.9	11		mg/Kg-dr	1	7/1/2014 3:10:21 PM	13991
Motor Oil Range Organics (MRO)	130	54	54		mg/Kg-dr	1	7/1/2014 3:10:21 PM	13991
Surr: DNOP	82.7	0	57.9-140		%REC	1	7/1/2014 3:10:21 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.8	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	1.3	0.21	0.28		mg/Kg-dr	1	7/2/2014 12:37:05 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Aniline	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Benzo(a)pyrene	ND	0.066	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Bis(2-chloroethoxy)methane	ND	0.074	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Bis(2-chloroethyl)ether	ND	0.088	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Bis(2-ethylhexyl)phthalate	0.097	0.073	0.55	J	mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Chloro-3-methylphenol	ND	0.058	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Di-n-butyl phthalate	ND	0.049	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Di-n-octyl phthalate	ND	0.27	0.44		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
3,3´-Dichlorobenzidine	ND	0.061	0.27		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0004
Project: Kirtland AFB
Collection Date: 6/30/2014 10:55:00 AM
Lab ID: 1406D88-004
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4-Dichlorophenol	ND	0.067	0.44		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4-Dinitrophenol	ND	0.077	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4-Dinitrotoluene	ND	0.080	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,6-Dinitrotoluene	ND	0.065	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Fluorene	ND	0.064	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Hexachloroethane	ND	0.077	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Isophorone	ND	0.072	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
3+4-Methylphenol	ND	0.074	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Nitrobenzene	ND	0.061	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Pentachlorophenol	ND	0.089	0.44		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Phenol	ND	0.064	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	7/2/2014 3:16:23 PM	14001
Surr: 2-Fluorophenol	52.9		27.9-127		%REC	1	7/2/2014 3:16:23 PM	14001
Surr: Phenol-d5	59.5		24.5-126		%REC	1	7/2/2014 3:16:23 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0004
Project: Kirtland AFB
Collection Date: 6/30/2014 10:55:00 AM
Lab ID: 1406D88-004
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	47.5		27.6-136		%REC	1	7/2/2014 3:16:23 PM	14001
Surr: Nitrobenzene-d5	57.2		23.5-128		%REC	1	7/2/2014 3:16:23 PM	14001
Surr: 2-Fluorobiphenyl	61.0		22.6-132		%REC	1	7/2/2014 3:16:23 PM	14001
Surr: 4-Terphenyl-d14	61.8		28.1-128		%REC	1	7/2/2014 3:16:23 PM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Toluene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Ethylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Xylenes, Total	ND	0.00122	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2,4-Trimethylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,3,5-Trimethylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Naphthalene	ND	0.00122	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Acetone	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Bromobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Bromodichloromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Bromoform	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Bromomethane	0.000999	0.000610	0.00305	J	mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
2-Butanone	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Carbon tetrachloride	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Chlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Chloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Chloroform	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Chloromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
2-Chlorotoluene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Carbon disulfide	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
4-Chlorotoluene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
cis-1,2-DCE	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
cis-1,3-Dichloropropene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Dibromochloromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Dibromomethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2-Dichlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,3-Dichlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,4-Dichlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Dichlorodifluoromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1-Dichloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0004
Project: Kirtland AFB
Collection Date: 6/30/2014 10:55:00 AM
Lab ID: 1406D88-004
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2-Dichloropropane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,3-Dichloropropane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
2,2-Dichloropropane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1-Dichloropropene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Hexachlorobutadiene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Isopropylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
4-Isopropyltoluene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Methylene chloride	ND	0.00122	0.00305		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
n-Butylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
2-Hexanone	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
n-Propylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
sec-Butylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Styrene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
4-Methyl-2-pentanone	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
tert-Butylbenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Tetrachloroethene (PCE)	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
trans-1,2-DCE	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
trans-1,3-Dichloropropene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2,3-Trichlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2,4-Trichlorobenzene	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1,1-Trichloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,1,2-Trichloroethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Trichloroethene (TCE)	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Trichlorofluoromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
1,2,3-Trichloropropane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Vinyl chloride	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Vinyl acetate	ND	0.00610	0.00610		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Bromochloromethane	ND	0.000610	0.00122		mg/Kg-dr	1	7/2/2014 1:05:36 AM	14008
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%REC	1	7/2/2014 1:05:36 AM	14008
Surr: 4-Bromofluorobenzene	99.1	0	65.3-135		%REC	1	7/2/2014 1:05:36 AM	14008
Surr: Dibromofluoromethane	97.0	0	70-130		%REC	1	7/2/2014 1:05:36 AM	14008
Surr: Toluene-d8	95.3	0	70-130		%REC	1	7/2/2014 1:05:36 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.48	3.7		mg/Kg-dr	1	7/2/2014 5:19:00 PM	R19656
Surr: BFB	113	0	61.2-137		%REC	1	7/2/2014 5:19:00 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0005
Project: Kirtland AFB
Collection Date: 6/30/2014 11:43:00 AM
Lab ID: 1406D88-005
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/1/2014 4:42:23 PM	13991
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/1/2014 4:42:23 PM	13991
Surr: DNOP	81.5	0	57.9-140		%REC	1	7/1/2014 4:42:23 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.9	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	8.1	0.20	0.28		mg/Kg-dr	1	7/2/2014 12:39:35 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Acenaphthylene	ND	0.53	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Aniline	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Anthracene	ND	0.47	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Benz(a)anthracene	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Benzo(a)pyrene	ND	0.65	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Benzo(b)fluoranthene	ND	0.74	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Benzo(g,h,i)perylene	ND	0.65	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Benzo(k)fluoranthene	ND	0.82	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Bis(2-chloroethoxy)methane	ND	0.73	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Bis(2-chloroethyl)ether	ND	0.86	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Bis(2-chloroisopropyl)ether	ND	0.40	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Bis(2-ethylhexyl)phthalate	ND	0.73	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Bromophenyl phenyl ether	ND	0.54	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Butyl benzyl phthalate	ND	0.46	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Carbazole	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Chloro-3-methylphenol	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Chloroaniline	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Chloronaphthalene	ND	0.62	1.3		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Chlorophenol	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Chlorophenyl phenyl ether	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Chrysene	ND	0.55	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Di-n-butyl phthalate	ND	0.48	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Di-n-octyl phthalate	ND	2.7	3.2		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Dibenz(a,h)anthracene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Dibenzofuran	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
1,2-Dichlorobenzene	ND	0.42	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
1,3-Dichlorobenzene	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
1,4-Dichlorobenzene	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
3,3´-Dichlorobenzidine	ND	0.60	1.3		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0005
Project: Kirtland AFB
Collection Date: 6/30/2014 11:43:00 AM
Lab ID: 1406D88-005
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Dimethyl phthalate	ND	0.60	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4-Dichlorophenol	ND	0.66	2.2		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4-Dimethylphenol	ND	0.64	1.6		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4,6-Dinitro-2-methylphenol	ND	0.44	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4-Dinitrophenol	ND	0.76	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4-Dinitrotoluene	ND	0.79	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,6-Dinitrotoluene	ND	0.64	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Fluoranthene	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Fluorene	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Hexachlorobenzene	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Hexachlorobutadiene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Hexachlorocyclopentadiene	ND	0.70	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Hexachloroethane	ND	0.76	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Indeno(1,2,3-cd)pyrene	ND	0.71	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Isophorone	ND	0.71	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Methylnaphthalene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Methylphenol	ND	0.62	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
3+4-Methylphenol	ND	0.73	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
N-Nitrosodi-n-propylamine	ND	0.71	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
N-Nitrosodimethylamine	ND	0.81	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
N-Nitrosodiphenylamine	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Naphthalene	ND	0.51	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Nitroaniline	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
3-Nitroaniline	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Nitroaniline	ND	0.52	2.2		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Nitrobenzene	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2-Nitrophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
4-Nitrophenol	ND	0.66	1.3		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Pentachlorophenol	ND	0.87	2.2		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Phenanthrene	ND	0.39	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Phenol	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Pyrene	ND	0.58	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Pyridine	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
1,2,4-Trichlorobenzene	ND	0.62	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4,5-Trichlorophenol	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
2,4,6-Trichlorophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:22:57 AM	14001
Surr: 2-Fluorophenol	0		27.9-127	S	%REC	1	7/2/2014 11:22:57 AM	14001
Surr: Phenol-d5	0		24.5-126	S	%REC	1	7/2/2014 11:22:57 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0005
Project: Kirtland AFB
Collection Date: 6/30/2014 11:43:00 AM
Lab ID: 1406D88-005
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		27.6-136	S	%REC	1	7/2/2014 11:22:57 AM	14001
Surr: Nitrobenzene-d5	0		23.5-128	S	%REC	1	7/2/2014 11:22:57 AM	14001
Surr: 2-Fluorobiphenyl	0		22.6-132	S	%REC	1	7/2/2014 11:22:57 AM	14001
Surr: 4-Terphenyl-d14	0		28.1-128	S	%REC	1	7/2/2014 11:22:57 AM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Toluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Ethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Xylenes, Total	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2,4-Trimethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,3,5-Trimethylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Naphthalene	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Acetone	0.00721	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Bromobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Bromodichloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Bromoform	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Bromomethane	0.000825	0.000662	0.00331	J	mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
2-Butanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Carbon tetrachloride	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Chlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Chloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Chloroform	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Chloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
2-Chlorotoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Carbon disulfide	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
4-Chlorotoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
cis-1,2-DCE	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
cis-1,3-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Dibromochloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Dibromomethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,3-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,4-Dichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Dichlorodifluoromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1-Dichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0005
Project: Kirtland AFB
Collection Date: 6/30/2014 11:43:00 AM
Lab ID: 1406D88-005
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,3-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
2,2-Dichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Hexachlorobutadiene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Isopropylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
4-Isopropyltoluene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Methylene chloride	ND	0.00132	0.00331		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
n-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
2-Hexanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
n-Propylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
sec-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Styrene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
4-Methyl-2-pentanone	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
tert-Butylbenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Tetrachloroethene (PCE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
trans-1,2-DCE	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
trans-1,3-Dichloropropene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2,3-Trichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2,4-Trichlorobenzene	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1,1-Trichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,1,2-Trichloroethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Trichloroethene (TCE)	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Trichlorofluoromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
1,2,3-Trichloropropane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Vinyl chloride	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Vinyl acetate	ND	0.00662	0.00662		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Bromochloromethane	ND	0.000662	0.00132		mg/Kg-dr	1	7/2/2014 1:35:13 AM	14008
Surr: 1,2-Dichloroethane-d4	117	0	70-130		%REC	1	7/2/2014 1:35:13 AM	14008
Surr: 4-Bromofluorobenzene	99.7	0	65.3-135		%REC	1	7/2/2014 1:35:13 AM	14008
Surr: Dibromofluoromethane	94.2	0	70-130		%REC	1	7/2/2014 1:35:13 AM	14008
Surr: Toluene-d8	101	0	70-130		%REC	1	7/2/2014 1:35:13 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	4.0		mg/Kg-dr	1	7/2/2014 5:47:11 PM	R19656
Surr: BFB	118	0	61.2-137		%REC	1	7/2/2014 5:47:11 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0006
Project: Kirtland AFB
Collection Date: 6/30/2014 11:51:00 AM
Lab ID: 1406D88-006
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/1/2014 5:13:14 PM	13991
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/1/2014 5:13:14 PM	13991
Surr: DNOP	82.6	0	57.9-140		%REC	1	7/1/2014 5:13:14 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.9	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	12	0.19	0.26		mg/Kg-dr	1	7/2/2014 12:42:04 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Acenaphthylene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Aniline	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Anthracene	1.9	0.47	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Benz(a)anthracene	11	0.58	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Benzo(a)pyrene	13	0.65	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Benzo(b)fluoranthene	16	0.74	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Benzo(g,h,i)perylene	5.5	0.65	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Benzo(k)fluoranthene	7.0	0.82	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Bis(2-chloroethoxy)methane	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Bis(2-chloroethyl)ether	ND	0.86	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Bis(2-chloroisopropyl)ether	ND	0.40	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Bis(2-ethylhexyl)phthalate	ND	0.72	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Bromophenyl phenyl ether	ND	0.54	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Butyl benzyl phthalate	ND	0.46	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Carbazole	0.79	0.48	1.1	J	mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Chloro-3-methylphenol	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Chloroaniline	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Chloronaphthalene	ND	0.61	1.3		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Chlorophenol	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Chlorophenyl phenyl ether	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Chrysene	17	0.55	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Di-n-butyl phthalate	ND	0.48	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Di-n-octyl phthalate	ND	2.7	3.2		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Dibenz(a,h)anthracene	1.9	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Dibenzofuran	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
1,2-Dichlorobenzene	ND	0.42	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
1,3-Dichlorobenzene	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
1,4-Dichlorobenzene	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
3,3´-Dichlorobenzidine	ND	0.60	1.3		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0006
Project: Kirtland AFB
Collection Date: 6/30/2014 11:51:00 AM
Lab ID: 1406D88-006
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Dimethyl phthalate	ND	0.60	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4-Dichlorophenol	ND	0.66	2.2		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4-Dimethylphenol	ND	0.64	1.6		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4,6-Dinitro-2-methylphenol	ND	0.44	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4-Dinitrophenol	ND	0.76	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4-Dinitrotoluene	ND	0.79	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,6-Dinitrotoluene	ND	0.64	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Fluoranthene	18	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Fluorene	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Hexachlorobenzene	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Hexachlorobutadiene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Hexachlorocyclopentadiene	ND	0.70	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Hexachloroethane	ND	0.75	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Indeno(1,2,3-cd)pyrene	5.9	0.71	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Isophorone	ND	0.71	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Methylnaphthalene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Methylphenol	ND	0.62	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
3+4-Methylphenol	ND	0.73	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
N-Nitrosodi-n-propylamine	ND	0.71	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
N-Nitrosodimethylamine	ND	0.81	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
N-Nitrosodiphenylamine	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Naphthalene	ND	0.51	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Nitroaniline	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
3-Nitroaniline	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Nitroaniline	ND	0.52	2.2		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Nitrobenzene	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2-Nitrophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
4-Nitrophenol	ND	0.66	1.3		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Pentachlorophenol	ND	0.87	2.2		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Phenanthrene	2.1	0.39	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Phenol	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Pyrene	16	0.58	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Pyridine	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
1,2,4-Trichlorobenzene	ND	0.62	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4,5-Trichlorophenol	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
2,4,6-Trichlorophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 11:51:53 AM	14001
Surr: 2-Fluorophenol	0		27.9-127	S	%REC	1	7/2/2014 11:51:53 AM	14001
Surr: Phenol-d5	0		24.5-126	S	%REC	1	7/2/2014 11:51:53 AM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0006
Project: Kirtland AFB
Collection Date: 6/30/2014 11:51:00 AM
Lab ID: 1406D88-006
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		27.6-136	S	%REC	1	7/2/2014 11:51:53 AM	14001
Surr: Nitrobenzene-d5	0		23.5-128	S	%REC	1	7/2/2014 11:51:53 AM	14001
Surr: 2-Fluorobiphenyl	0		22.6-132	S	%REC	1	7/2/2014 11:51:53 AM	14001
Surr: 4-Terphenyl-d14	0		28.1-128	S	%REC	1	7/2/2014 11:51:53 AM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Toluene	0.00264	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Ethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Xylenes, Total	ND	0.00137	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2,4-Trimethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,3,5-Trimethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Naphthalene	ND	0.00137	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Acetone	0.0328	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Bromobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Bromodichloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Bromoform	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Bromomethane	0.00123	0.000687	0.00344	J	mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
2-Butanone	ND	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Carbon tetrachloride	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Chlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Chloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Chloroform	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Chloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
2-Chlorotoluene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Carbon disulfide	ND	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
4-Chlorotoluene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
cis-1,2-DCE	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
cis-1,3-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Dibromochloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Dibromomethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,3-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,4-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Dichlorodifluoromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1-Dichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0006
Project: Kirtland AFB
Collection Date: 6/30/2014 11:51:00 AM
Lab ID: 1406D88-006
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,3-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
2,2-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Hexachlorobutadiene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Isopropylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
4-Isopropyltoluene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Methylene chloride	ND	0.00137	0.00344		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
n-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
2-Hexanone	ND	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
n-Propylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
sec-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Styrene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
4-Methyl-2-pentanone	ND	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
tert-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Tetrachloroethene (PCE)	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
trans-1,2-DCE	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
trans-1,3-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2,3-Trichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2,4-Trichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1,1-Trichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,1,2-Trichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Trichloroethene (TCE)	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Trichlorofluoromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
1,2,3-Trichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Vinyl chloride	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Vinyl acetate	ND	0.00687	0.00687		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Bromochloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	7/2/2014 2:04:59 AM	14008
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	7/2/2014 2:04:59 AM	14008
Surr: 4-Bromofluorobenzene	107	0	65.3-135		%REC	1	7/2/2014 2:04:59 AM	14008
Surr: Dibromofluoromethane	101	0	70-130		%REC	1	7/2/2014 2:04:59 AM	14008
Surr: Toluene-d8	103	0	70-130		%REC	1	7/2/2014 2:04:59 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.46	3.6		mg/Kg-dr	1	7/2/2014 6:15:20 PM	R19656
Surr: BFB	114	0	61.2-137		%REC	1	7/2/2014 6:15:20 PM	R19656

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0007
Project: Kirtland AFB
Collection Date: 6/30/2014 2:52:00 PM
Lab ID: 1406D88-007
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	15	6.0	11		mg/Kg-dr	1	7/1/2014 5:43:58 PM	13991
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/1/2014 5:43:58 PM	13991
Surr: DNOP	85.7	0	57.9-140		%REC	1	7/1/2014 5:43:58 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.5	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	25	0.20	0.27		mg/Kg-dr	1	7/2/2014 12:44:35 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Acenaphthylene	ND	0.53	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Aniline	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Anthracene	ND	0.47	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Benz(a)anthracene	1.2	0.59	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Benzo(a)pyrene	ND	0.65	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Benzo(b)fluoranthene	1.3	0.74	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Benzo(g,h,i)perylene	0.72	0.65	1.1	J	mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Benzo(k)fluoranthene	ND	0.82	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Bis(2-chloroethoxy)methane	ND	0.73	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Bis(2-chloroethyl)ether	ND	0.87	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Bis(2-chloroisopropyl)ether	ND	0.40	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Bis(2-ethylhexyl)phthalate	1.1	0.73	2.7	J	mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Bromophenyl phenyl ether	ND	0.54	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Butyl benzyl phthalate	ND	0.46	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Carbazole	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Chloro-3-methylphenol	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Chloroaniline	ND	0.57	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Chloronaphthalene	ND	0.62	1.3		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Chlorophenol	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Chlorophenyl phenyl ether	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Chrysene	0.84	0.55	1.1	J	mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Di-n-butyl phthalate	ND	0.49	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Di-n-octyl phthalate	ND	2.7	3.2		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Dibenz(a,h)anthracene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Dibenzofuran	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
1,2-Dichlorobenzene	ND	0.42	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
1,3-Dichlorobenzene	ND	0.61	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
1,4-Dichlorobenzene	ND	0.67	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
3,3´-Dichlorobenzidine	ND	0.60	1.3		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0007
Project: Kirtland AFB
Collection Date: 6/30/2014 2:52:00 PM
Lab ID: 1406D88-007
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Dimethyl phthalate	ND	0.60	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4-Dichlorophenol	ND	0.66	2.2		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4-Dimethylphenol	ND	0.64	1.6		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4,6-Dinitro-2-methylphenol	ND	0.44	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4-Dinitrophenol	ND	0.76	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4-Dinitrotoluene	ND	0.80	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,6-Dinitrotoluene	ND	0.64	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Fluoranthene	0.76	0.48	1.1	J	mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Fluorene	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Hexachlorobenzene	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Hexachlorobutadiene	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Hexachlorocyclopentadiene	ND	0.70	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Hexachloroethane	ND	0.76	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Indeno(1,2,3-cd)pyrene	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Isophorone	ND	0.71	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Methylnaphthalene	ND	0.64	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Methylphenol	ND	0.62	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
3+4-Methylphenol	ND	0.73	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
N-Nitrosodi-n-propylamine	ND	0.72	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
N-Nitrosodimethylamine	ND	0.82	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
N-Nitrosodiphenylamine	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Naphthalene	ND	0.51	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Nitroaniline	ND	0.52	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
3-Nitroaniline	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Nitroaniline	ND	0.52	2.2		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Nitrobenzene	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2-Nitrophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
4-Nitrophenol	ND	0.66	1.3		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Pentachlorophenol	ND	0.88	2.2		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Phenanthrene	ND	0.39	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Phenol	ND	0.63	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Pyrene	0.98	0.59	1.1	J	mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Pyridine	ND	0.60	2.7		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
1,2,4-Trichlorobenzene	ND	0.62	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4,5-Trichlorophenol	ND	0.48	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
2,4,6-Trichlorophenol	ND	0.59	1.1		mg/Kg-dr	1	7/2/2014 12:20:51 PM	14001
Surr: 2-Fluorophenol	0		27.9-127	S	%REC	1	7/2/2014 12:20:51 PM	14001
Surr: Phenol-d5	0		24.5-126	S	%REC	1	7/2/2014 12:20:51 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0007
Project: Kirtland AFB
Collection Date: 6/30/2014 2:52:00 PM
Lab ID: 1406D88-007
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		27.6-136	S	%REC	1	7/2/2014 12:20:51 PM	14001
Surr: Nitrobenzene-d5	0		23.5-128	S	%REC	1	7/2/2014 12:20:51 PM	14001
Surr: 2-Fluorobiphenyl	0		22.6-132	S	%REC	1	7/2/2014 12:20:51 PM	14001
Surr: 4-Terphenyl-d14	0		28.1-128	S	%REC	1	7/2/2014 12:20:51 PM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Toluene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Ethylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Xylenes, Total	ND	0.00134	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2,4-Trimethylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,3,5-Trimethylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Naphthalene	ND	0.00134	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Acetone	0.0101	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Bromobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Bromodichloromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Bromoform	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Bromomethane	0.00104	0.000671	0.00335	J	mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
2-Butanone	ND	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Carbon tetrachloride	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Chlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Chloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Chloroform	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Chloromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
2-Chlorotoluene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Carbon disulfide	ND	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
4-Chlorotoluene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
cis-1,2-DCE	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
cis-1,3-Dichloropropene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Dibromochloromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Dibromomethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2-Dichlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,3-Dichlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,4-Dichlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Dichlorodifluoromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1-Dichloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0007
Project: Kirtland AFB
Collection Date: 6/30/2014 2:52:00 PM
Lab ID: 1406D88-007
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2-Dichloropropane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,3-Dichloropropane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
2,2-Dichloropropane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1-Dichloropropene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Hexachlorobutadiene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Isopropylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
4-Isopropyltoluene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Methylene chloride	ND	0.00134	0.00335		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
n-Butylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
2-Hexanone	ND	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
n-Propylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
sec-Butylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Styrene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
4-Methyl-2-pentanone	ND	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
tert-Butylbenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Tetrachloroethene (PCE)	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
trans-1,2-DCE	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
trans-1,3-Dichloropropene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2,3-Trichlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2,4-Trichlorobenzene	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1,1-Trichloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,1,2-Trichloroethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Trichloroethene (TCE)	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Trichlorofluoromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
1,2,3-Trichloropropane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Vinyl chloride	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Vinyl acetate	ND	0.00671	0.00671		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Bromochloromethane	ND	0.000671	0.00134		mg/Kg-dr	1	7/2/2014 2:34:40 AM	14008
Surr: 1,2-Dichloroethane-d4	119	0	70-130		%REC	1	7/2/2014 2:34:40 AM	14008
Surr: 4-Bromofluorobenzene	96.5	0	65.3-135		%REC	1	7/2/2014 2:34:40 AM	14008
Surr: Dibromofluoromethane	103	0	70-130		%REC	1	7/2/2014 2:34:40 AM	14008
Surr: Toluene-d8	102	0	70-130		%REC	1	7/2/2014 2:34:40 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	3.9		mg/Kg-dr	1	7/2/2014 6:43:27 PM	R19656
Surr: BFB	115	0	61.2-137		%REC	1	7/2/2014 6:43:27 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0008
Project: Kirtland AFB
Collection Date: 6/30/2014 2:58:00 PM
Lab ID: 1406D88-008
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/1/2014 6:14:43 PM	13991
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/1/2014 6:14:43 PM	13991
Surr: DNOP	83.0	0	57.9-140		%REC	1	7/1/2014 6:14:43 PM	13991
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	5.9	1.0	1.0		wt%	1	7/1/2014 9:12:00 AM	R19627
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.0	0.19	0.26		mg/Kg-dr	1	7/2/2014 12:47:06 PM	13994
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Aniline	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Benz(a)anthracene	0.10	0.058	0.21	J	mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Benzo(g,h,i)perylene	0.086	0.064	0.21	J	mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Benzo(k)fluoranthene	ND	0.081	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Bis(2-chloroethoxy)methane	ND	0.072	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Bis(2-ethylhexyl)phthalate	0.10	0.072	0.53	J	mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Bromophenyl phenyl ether	ND	0.054	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Chloronaphthalene	ND	0.061	0.27		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Di-n-butyl phthalate	ND	0.048	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
3,3´-Dichlorobenzidine	ND	0.059	0.27		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0008
Project: Kirtland AFB
Collection Date: 6/30/2014 2:58:00 PM
Lab ID: 1406D88-008
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4-Dichlorophenol	ND	0.065	0.43		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4,6-Dinitro-2-methylphenol	ND	0.044	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Fluoranthene	ND	0.048	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Hexachloroethane	ND	0.075	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
3+4-Methylphenol	ND	0.072	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Naphthalene	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Nitroaniline	ND	0.051	0.43		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
4-Nitrophenol	ND	0.065	0.27		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Pentachlorophenol	ND	0.086	0.43		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Phenol	ND	0.062	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Pyrene	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	7/2/2014 12:49:55 PM	14001
Surr: 2-Fluorophenol	51.0		27.9-127		%REC	1	7/2/2014 12:49:55 PM	14001
Surr: Phenol-d5	54.6		24.5-126		%REC	1	7/2/2014 12:49:55 PM	14001

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0008
Project: Kirtland AFB
Collection Date: 6/30/2014 2:58:00 PM
Lab ID: 1406D88-008
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	50.4		27.6-136		%REC	1	7/2/2014 12:49:55 PM	14001
Surr: Nitrobenzene-d5	56.5		23.5-128		%REC	1	7/2/2014 12:49:55 PM	14001
Surr: 2-Fluorobiphenyl	62.8		22.6-132		%REC	1	7/2/2014 12:49:55 PM	14001
Surr: 4-Terphenyl-d14	62.9		28.1-128		%REC	1	7/2/2014 12:49:55 PM	14001
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Toluene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Ethylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Xylenes, Total	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Methyl tert-butyl ether (MTBE)	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2,4-Trimethylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,3,5-Trimethylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2-Dichloroethane (EDC)	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2-Dibromoethane (EDB)	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Naphthalene	ND	0.00132	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Acetone	0.00867	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Bromobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Bromodichloromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Bromoform	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Bromomethane	0.00103	0.000660	0.00330	J	mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
2-Butanone	ND	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Carbon tetrachloride	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Chlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Chloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Chloroform	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Chloromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
2-Chlorotoluene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Carbon disulfide	ND	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
4-Chlorotoluene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
cis-1,2-DCE	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
cis-1,3-Dichloropropene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2-Dibromo-3-chloropropane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Dibromochloromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Dibromomethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2-Dichlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,3-Dichlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,4-Dichlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Dichlorodifluoromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1-Dichloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0008
Project: Kirtland AFB
Collection Date: 6/30/2014 2:58:00 PM
Lab ID: 1406D88-008
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2-Dichloropropane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,3-Dichloropropane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
2,2-Dichloropropane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1-Dichloropropene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Hexachlorobutadiene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Isopropylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
4-Isopropyltoluene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Methylene chloride	ND	0.00132	0.00330		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
n-Butylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
2-Hexanone	ND	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
n-Propylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
sec-Butylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Styrene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
4-Methyl-2-pentanone	ND	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
tert-Butylbenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1,1,2-Tetrachloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1,2,2-Tetrachloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Tetrachloroethene (PCE)	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
trans-1,2-DCE	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
trans-1,3-Dichloropropene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2,3-Trichlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2,4-Trichlorobenzene	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1,1-Trichloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,1,2-Trichloroethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Trichloroethene (TCE)	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Trichlorofluoromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
1,2,3-Trichloropropane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Vinyl chloride	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Vinyl acetate	ND	0.00660	0.00660		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Bromochloromethane	ND	0.000660	0.00132		mg/Kg-dr	1	7/2/2014 3:04:22 AM	14008
Surr: 1,2-Dichloroethane-d4	106	0	70-130		%REC	1	7/2/2014 3:04:22 AM	14008
Surr: 4-Bromofluorobenzene	96.4	0	65.3-135		%REC	1	7/2/2014 3:04:22 AM	14008
Surr: Dibromofluoromethane	99.1	0	70-130		%REC	1	7/2/2014 3:04:22 AM	14008
Surr: Toluene-d8	101	0	70-130		%REC	1	7/2/2014 3:04:22 AM	14008
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	3.9		mg/Kg-dr	1	7/2/2014 7:11:34 PM	R19656
Surr: BFB	114	0	61.2-137		%REC	1	7/2/2014 7:11:34 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1406D88-009
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Toluene	ND	0.0055	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Acetone	ND	0.049	0.75		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Bromomethane	0.079	0.0071	0.15	J	mg/Kg	1	7/2/2014 7:39:38 PM	R19656
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Chloroform	ND	0.017	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1406D88-009
Matrix: MEOH (SOIL)
Received Date: 6/30/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Methylene chloride	0.011	0.0047	0.15	J	mg/Kg	1	7/2/2014 7:39:38 PM	R19656
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Styrene	ND	0.0039	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Surr: Dibromofluoromethane	112	0	70-130		%REC	1	7/2/2014 7:39:38 PM	R19656
Surr: 1,2-Dichloroethane-d4	97.0	0	70-130		%REC	1	7/2/2014 7:39:38 PM	R19656
Surr: Toluene-d8	90.0	0	70-130		%REC	1	7/2/2014 7:39:38 PM	R19656
Surr: 4-Bromofluorobenzene	85.2	0	70-130		%REC	1	7/2/2014 7:39:38 PM	R19656
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/2/2014 7:39:38 PM	R19656
Surr: BFB	120	0	61.2-137		%REC	1	7/2/2014 7:39:38 PM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-13991**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **13991**	RunNo: **19594**
Prep Date: **7/1/2014**	Analysis Date: **7/1/2014**	SeqNo: **568507** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.0	57.9	140			

Sample ID **LCS-13991**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **13991**	RunNo: **19594**
Prep Date: **7/1/2014**	Analysis Date: **7/1/2014**	SeqNo: **568524** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	68.6	130			
Surr: DNOP	3.3		5.000		66.7	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570597** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	0.0094	0.10								J
Acetone	0.14	0.75								J
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.13	0.50								J
Carbon disulfide	0.019	0.50								J
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	0.0089	0.050								J
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	0.013	0.050								J
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	0.0098	0.10								J

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570597** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	0.020	0.50								J
Methylene chloride	0.041	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	0.013	0.050								J
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	0.0070	0.050								J
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	0.0074	0.050								J
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	0.018	0.050								J
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		95.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.2	70	130			
Surr: Toluene-d8	0.44		0.5000		87.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.1	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	70	130			
Toluene	1.1	0.050	1.000	0	107	60.1	120			
Chlorobenzene	1.0	0.050	1.000	0	103	70	130			
1,1-Dichloroethene	1.1	0.050	1.000	0	111	78.2	162			
Trichloroethene (TCE)	1.1	0.050	1.000	0	115	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: Toluene-d8	0.43		0.5000		86.9	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14008**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14008**	RunNo: **19630**
Prep Date: **7/1/2014**	Analysis Date: **7/1/2014**	SeqNo: **569098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00205	0.00500								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14008**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14008**	RunNo: **19630**
Prep Date: **7/1/2014**	Analysis Date: **7/1/2014**	SeqNo: **569098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00500								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Vinyl acetate	ND	0.0100								
Bromochloromethane	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0198		0.02000		98.8	70	130			
Surr: 4-Bromofluorobenzene	0.0192		0.02000		95.9	65.3	135			
Surr: Dibromofluoromethane	0.0186		0.02000		93.2	70	130			
Surr: Toluene-d8	0.0199		0.02000		99.3	70	130			

Sample ID **1406d88-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0001**	Batch ID: **14008**	RunNo: **19630**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569101** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00538	0.00132	0.006621	0	81.3	70	130			
Toluene	0.00518	0.00132	0.006621	0	78.2	70	130			
Chlorobenzene	0.00467	0.00132	0.006621	0	70.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1406d88-001ams**	SampType:	**MS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**14008**		RunNo:	**19630**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569101**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00486	0.00132	0.006621	0	73.4	70	130			
Trichloroethene (TCE)	0.00541	0.00132	0.006621	0	81.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.0158		0.01324		120	70	130			
Surr: 4-Bromofluorobenzene	0.0125		0.01324		94.1	65.3	135			
Surr: Dibromofluoromethane	0.0123		0.01324		92.7	70	130			
Surr: Toluene-d8	0.0131		0.01324		98.7	70	130			

Sample ID	**1406d88-001amsd**	SampType:	**MSD**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**14008**		RunNo:	**19630**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569102**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00572	0.00132	0.006621	0	86.4	70	130	6.06	20	
Toluene	0.00565	0.00132	0.006621	0	85.4	70	130	8.79	20	
Chlorobenzene	0.00518	0.00132	0.006621	0	78.2	70	130	10.2	20	
1,1-Dichloroethene	0.00525	0.00132	0.006621	0	79.3	70	130	7.75	20	
Trichloroethene (TCE)	0.00578	0.00132	0.006621	0	87.3	70	130	6.64	20	
Surr: 1,2-Dichloroethane-d4	0.0152		0.01324		115	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0134		0.01324		101	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0113		0.01324		85.3	70	130	0	0	
Surr: Toluene-d8	0.0129		0.01324		97.2	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14001**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14001**	RunNo: **19640**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.093	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14001**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14001**	RunNo: **19640**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.8		3.330		83.7	27.9	127			
Surr: Phenol-d5	2.9		3.330		87.7	24.5	126			
Surr: 2,4,6-Tribromophenol	2.3		3.330		70.3	27.6	136			
Surr: Nitrobenzene-d5	1.5		1.670		91.5	23.5	128			
Surr: 2-Fluorobiphenyl	1.5		1.670		89.3	22.6	132			
Surr: 4-Terphenyl-d14	1.5		1.670		91.3	28.1	128			

Sample ID **lcs-14001**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14001**	RunNo: **19640**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14001**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14001**	RunNo: **19640**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	92.7	50.7	110			
4-Chloro-3-methylphenol	3.1	0.50	3.330	0	92.3	47.8	107			
2-Chlorophenol	3.0	0.20	3.330	0	89.2	45.7	108			
1,4-Dichlorobenzene	1.4	0.20	1.670	0	84.2	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	72.5	44.9	114			
N-Nitrosodi-n-propylamine	1.5	0.20	1.670	0	90.6	38.7	128			
4-Nitrophenol	2.6	0.25	3.330	0	77.1	40.2	103			
Pentachlorophenol	1.9	0.40	3.330	0	57.9	32.9	94			
Phenol	3.2	0.20	3.330	0	95.1	44.1	109			
Pyrene	1.5	0.20	1.670	0	90.1	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	79.8	49.5	115			
Surr: 2-Fluorophenol	2.9		3.330		87.0	27.9	127			
Surr: Phenol-d5	3.1		3.330		93.8	24.5	126			
Surr: 2,4,6-Tribromophenol	2.9		3.330		87.3	27.6	136			
Surr: Nitrobenzene-d5	1.6		1.670		94.7	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		98.7	22.6	132			
Surr: 4-Terphenyl-d14	1.6		1.670		93.5	28.1	128			

Sample ID **1406d88-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0001**	Batch ID: **14001**	RunNo: **19640**
Prep Date: **7/1/2014**	Analysis Date: **7/2/2014**	SeqNo: **569818** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.22	1.856	0	81.5	53.8	92.8			
4-Chloro-3-methylphenol	3.2	0.56	3.702	0	86.0	34.9	104			
2-Chlorophenol	3.0	0.22	3.702	0	80.9	18.2	105			
1,4-Dichlorobenzene	1.3	0.22	1.856	0	70.1	18.1	112			
2,4-Dinitrotoluene	1.4	0.56	1.856	0	74.6	22	144			
N-Nitrosodi-n-propylamine	1.5	0.22	1.856	0	82.1	58.6	101			
4-Nitrophenol	2.9	0.28	3.702	0	77.5	13.7	127			
Pentachlorophenol	1.7	0.44	3.702	0	46.9	16.5	107			
Phenol	3.2	0.22	3.702	0	86.3	12.5	114			
Pyrene	1.7	0.22	1.856	0	89.0	14.2	116			
1,2,4-Trichlorobenzene	1.3	0.22	1.856	0	71.7	16	125			
Surr: 2-Fluorophenol	2.6		3.702		70.1	27.9	127			
Surr: Phenol-d5	3.0		3.702		81.6	24.5	126			
Surr: 2,4,6-Tribromophenol	2.5		3.702		66.8	27.6	136			
Surr: Nitrobenzene-d5	1.6		1.856		85.8	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.856		85.7	22.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1406d88-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**14001**		RunNo:	**19640**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569818**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.4		1.856		76.0	28.1	128			

Sample ID	**1406d88-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**14001**		RunNo:	**19640**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569819**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.22	1.850	0	78.1	53.8	92.8	4.56	22	
4-Chloro-3-methylphenol	2.8	0.55	3.689	0	77.2	34.9	104	11.1	27.3	
2-Chlorophenol	3.0	0.22	3.689	0	81.7	18.2	105	0.653	26.3	
1,4-Dichlorobenzene	1.2	0.22	1.850	0	66.3	18.1	112	5.86	27.4	
2,4-Dinitrotoluene	1.3	0.55	1.850	0	69.2	22	144	7.80	27.4	
N-Nitrosodi-n-propylamine	1.4	0.22	1.850	0	76.0	58.6	101	8.01	22.6	
4-Nitrophenol	2.7	0.28	3.689	0	74.2	13.7	127	4.67	20	
Pentachlorophenol	1.5	0.44	3.689	0	40.5	16.5	107	14.9	27.1	
Phenol	3.0	0.22	3.689	0	80.4	12.5	114	7.42	32.2	
Pyrene	1.6	0.22	1.850	0	86.1	14.2	116	3.71	29.5	
1,2,4-Trichlorobenzene	1.2	0.22	1.850	0	64.3	16	125	11.2	27.8	
Surr: 2-Fluorophenol	2.8		3.689		75.6	27.9	127	0	0	
Surr: Phenol-d5	2.9		3.689		79.2	24.5	126	0	0	
Surr: 2,4,6-Tribromophenol	2.3		3.689		62.4	27.6	136	0	0	
Surr: Nitrobenzene-d5	1.6		1.850		84.0	23.5	128	0	0	
Surr: 2-Fluorobiphenyl	1.6		1.850		85.0	22.6	132	0	0	
Surr: 4-Terphenyl-d14	1.5		1.850		78.7	28.1	128	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-13994**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**13994**		RunNo:	**19639**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569712**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-13994**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**13994**		RunNo:	**19639**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569713**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	92.0	80	120			

Sample ID	**1406D88-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**13994**		RunNo:	**19639**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569750**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	34	0.27	27.27	13.53	75.8	75	125			

Sample ID	**1406D88-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0001**	Batch ID:	**13994**		RunNo:	**19639**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/2/2014**		SeqNo:	**569751**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	32	0.28	28.38	13.53	65.2	75	125	6.59	20	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D88**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570537** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		103	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570547** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	80	120			
Surr: BFB	530		500.0		105	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1406D88** RcptNo: 1

Received by/date: 04/30/13

Logged By: **Ashley Gallegos** **6/30/2014 5:00:00 PM**

Completed By: **Ashley Gallegos** **6/30/2014 5:28:37 PM**

Reviewed By: 07/01/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	16.7	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOR-~~EXC-0~~

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 30 JUN 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 6/30/14 Time: 1645	1. Received By (Signature/Affiliation)	Date: 6/30/14 Time: 1640
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 16.7°C	Date: 06/30/14 Time: 1700
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: no odor in any.
PID: FFOR-EXC-01 = 0.3 ppm, FFOR-EXC-02=0.5 ppm, FFOR-EXC-03= 52 ppm, FFOR-EXC-04=0.0 ppm, FFOR-EXC-05=0.1 ppm, FFOR-EXC-06=0.0 ppm, FFOR-EXC-07=16.2 ppm, FFOR-EXC-08=2.1 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0001	FFOR-EXC-01-DS-FFOR-CF-0001-REG	30 JUN 2014	10:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		1406D88
FFOR-CF-0001	FFOR-EXC-01-DS-FFOR-CF-0001-REG	30 JUN 2014	10:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-001
FFOR-CF-0002	FFOR-EXC-02-DS-FFOR-CF-0002-REG	30 JUN 2014	10:36	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0002	FFOR-EXC-02-DS-FFOR-CF-0002-REG	30 JUN 2014	10:36	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		-002
FFOR-CF-0003	FFOR-EXC-03-DS-FFOR-CF-0003-REG	30 JUN 2014	10:46	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-003
FFOR-CF-0003	FFOR-EXC-03-DS-FFOR-CF-0003-REG	30 JUN 2014	10:46	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs, TPH-DRO			N		-003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOR-EXC-0

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D					
FFOR-CF-0004	FFOR-EXC-04-DS-FFOR-CF-0004-REG	30 JUN 2014	10:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1406D88
FFOR-CF-0004	FFOR-EXC-04-DS-FFOR-CF-0004-REG	30 JUN 2014	10:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		-004
FFOR-CF-0005	FFOR-EXC-05-DS-FFOR-CF-0005-REG	30 JUN 2014	11:43	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D TPH DRO			N		-005
FFOR-CF-0005	FFOR-EXC-05-DS-FFOR-CF-0005-REG	30 JUN 2014	11:43	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0006	FFOR-EXC-06-DS-FFOR-CF-0006-REG	30 JUN 2014	11:51	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0006	FFOR-EXC-06-DS-FFOR-CF-0006-REG	30 JUN 2014	11:51	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D TPH DRO			N		-006
FFOR-CF-0007	FFOR-EXC-07-DS-FFOR-CF-0007-REG	30 JUN 2014	14:52	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-007
FFOR-CF-0007	FFOR-EXC-07-DS-FFOR-CF-0007-REG	30 JUN 2014	14:52	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		-007
FFOR-CF-0008	FFOR-EXC-08-DS-FFOR-CF-0008-REG	30 JUN 2014	14:58	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-008
FFOR-CF-0008	FFOR-EXC-08-DS-FFOR-CF-0008-REG	30 JUN 2014	14:58	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO			N		-008

Meoh Blank
At 07/01/14

-009

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 29, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407B98

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/24/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0079
Project: Kirtland AFB
Collection Date: 7/24/2014 9:30:00 AM
Lab ID: 1407B98-001
Matrix: SOIL
Received Date: 7/24/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	5.5	1.0	1.0		wt%	1	7/28/2014 11:48:00 AM	R20214
EPA METHOD 8270C: PAHS							Analyst: **JDC**	
Naphthalene	ND	0.0059	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
1-Methylnaphthalene	ND	0.0059	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
2-Methylnaphthalene	ND	0.0062	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Acenaphthylene	ND	0.0063	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Acenaphthene	ND	0.0066	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Fluorene	ND	0.0076	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Phenanthrene	ND	0.0060	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Anthracene	0.011	0.0063	0.021	J	mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Fluoranthene	ND	0.0065	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Pyrene	ND	0.0052	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Benz(a)anthracene	ND	0.0054	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Chrysene	ND	0.0038	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Benzo(b)fluoranthene	0.018	0.0068	0.021	J	mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Benzo(k)fluoranthene	ND	0.0085	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Benzo(a)pyrene	ND	0.0080	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Dibenz(a,h)anthracene	ND	0.0077	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Benzo(g,h,i)perylene	ND	0.0061	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Indeno(1,2,3-cd)pyrene	ND	0.0072	0.021		mg/Kg-dr	1	7/28/2014 12:16:26 PM	14448
Surr: N-hexadecane	55.9	0	27-106		%REC	1	7/28/2014 12:16:26 PM	14448
Surr: Benzo(e)pyrene	66.4	0	34.7-131		%REC	1	7/28/2014 12:16:26 PM	14448

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0080
Project: Kirtland AFB
Collection Date: 7/24/2014 10:39:00 AM
Lab ID: 1407B98-002
Matrix: SOIL
Received Date: 7/24/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.0	1.0	1.0		wt%	1	7/28/2014 11:48:00 AM	R20214
EPA METHOD 8270C: PAHS							Analyst: **JDC**	
Naphthalene	ND	0.0060	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
1-Methylnaphthalene	ND	0.0060	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
2-Methylnaphthalene	ND	0.0063	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Acenaphthylene	ND	0.0064	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Acenaphthene	ND	0.0067	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Fluorene	ND	0.0077	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Phenanthrene	ND	0.0061	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Anthracene	ND	0.0064	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Fluoranthene	0.012	0.0066	0.021	J	mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Pyrene	0.012	0.0052	0.021	J	mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Benz(a)anthracene	ND	0.0055	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Chrysene	0.0096	0.0039	0.021	J	mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Benzo(b)fluoranthene	0.032	0.0070	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Benzo(k)fluoranthene	ND	0.0087	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Benzo(a)pyrene	0.012	0.0081	0.021	J	mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Dibenz(a,h)anthracene	ND	0.0078	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Benzo(g,h,i)perylene	0.079	0.0062	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Indeno(1,2,3-cd)pyrene	0.037	0.0073	0.021		mg/Kg-dr	1	7/28/2014 12:39:39 PM	14448
Surr: N-hexadecane	59.2	0	27-106		%REC	1	7/28/2014 12:39:39 PM	14448
Surr: Benzo(e)pyrene	70.8	0	34.7-131		%REC	1	7/28/2014 12:39:39 PM	14448

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0081
Project: Kirtland AFB
Collection Date: 7/24/2014 2:57:00 PM
Lab ID: 1407B98-003
Matrix: SOIL
Received Date: 7/24/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.6	1.0	1.0		wt%	1	7/28/2014 11:48:00 AM	R20214
EPA METHOD 8270C: PAHS							Analyst: **JDC**	
Naphthalene	ND	0.0060	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
1-Methylnaphthalene	ND	0.0060	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
2-Methylnaphthalene	ND	0.0063	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Acenaphthylene	ND	0.0064	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Acenaphthene	ND	0.0067	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Fluorene	ND	0.0077	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Phenanthrene	ND	0.0061	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Anthracene	0.0067	0.0064	0.021	J	mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Fluoranthene	ND	0.0066	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Pyrene	0.0060	0.0052	0.021	J	mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Benz(a)anthracene	ND	0.0054	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Chrysene	0.0050	0.0038	0.021	J	mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Benzo(b)fluoranthene	ND	0.0069	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Benzo(k)fluoranthene	ND	0.0086	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Benzo(a)pyrene	ND	0.0081	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Dibenz(a,h)anthracene	ND	0.0078	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Benzo(g,h,i)perylene	0.0064	0.0062	0.021	J	mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Indeno(1,2,3-cd)pyrene	ND	0.0072	0.021		mg/Kg-dr	1	7/28/2014 1:02:51 PM	14448
Surr: N-hexadecane	46.0	0	27-106		%REC	1	7/28/2014 1:02:51 PM	14448
Surr: Benzo(e)pyrene	60.8	0	34.7-131		%REC	1	7/28/2014 1:02:51 PM	14448

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407B98**

29-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14448**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **14448**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **586998** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.99		1.460		67.6	27	106			
Surr: Benzo(e)pyrene	0.23		0.3300		71.0	34.7	131			

Sample ID **lcs-14448**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14448**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587000** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.20	0.020	0.3300	0	59.4	50.1	116			
1-Methylnaphthalene	0.20	0.020	0.3300	0	60.9	50.8	121			
2-Methylnaphthalene	0.19	0.020	0.3300	0	58.7	50.4	120			
Acenaphthylene	0.20	0.020	0.3300	0	59.2	53	112			
Acenaphthene	0.19	0.020	0.3300	0	58.6	51.4	112			
Fluorene	0.20	0.020	0.3300	0	61.8	51	116			
Phenanthrene	0.20	0.020	0.3300	0	61.8	46.3	120			
Anthracene	0.20	0.020	0.3300	0	62.1	46.4	118			
Fluoranthene	0.22	0.020	0.3300	0	66.8	46.4	123			
Pyrene	0.20	0.020	0.3300	0	60.1	43.3	122			
Benz(a)anthracene	0.20	0.020	0.3300	0	61.9	44.3	118			
Chrysene	0.23	0.020	0.3300	0	68.4	45.5	116			
Benzo(b)fluoranthene	0.22	0.020	0.3300	0	66.6	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407B98**

29-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14448**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14448**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587000** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.21	0.020	0.3300	0	63.7	49.7	117			
Benzo(a)pyrene	0.21	0.020	0.3300	0	62.5	50.8	111			
Dibenz(a,h)anthracene	0.24	0.020	0.3300	0	72.6	49.8	127			
Benzo(g,h,i)perylene	0.20	0.020	0.3300	0	60.5	46.4	122			
Indeno(1,2,3-cd)pyrene	0.21	0.020	0.3300	0	62.8	50.1	120			
Surr: N-hexadecane	0.86		1.460		58.7	27	106			
Surr: Benzo(e)pyrene	0.23		0.3300		69.0	34.7	131			

Sample ID **1407B98-003Ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0081**	Batch ID: **14448**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587275** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.021	0.3495	0	71.7	42.6	115			
1-Methylnaphthalene	0.25	0.021	0.3495	0	72.7	42.4	122			
2-Methylnaphthalene	0.25	0.021	0.3495	0	71.8	45.2	120			
Acenaphthylene	0.24	0.021	0.3495	0	68.4	39.7	116			
Acenaphthene	0.23	0.021	0.3495	0	66.1	41.4	119			
Fluorene	0.25	0.021	0.3495	0	72.7	44.2	123			
Phenanthrene	0.26	0.021	0.3495	0	73.5	48	120			
Anthracene	0.26	0.021	0.3495	0.006738	71.4	43.8	120			
Fluoranthene	0.27	0.021	0.3495	0	78.4	54	125			
Pyrene	0.27	0.021	0.3495	0.006029	76.3	55	120			
Benz(a)anthracene	0.27	0.021	0.3495	0	76.2	50.9	125			
Chrysene	0.31	0.021	0.3495	0.004965	86.7	45.3	127			
Benzo(b)fluoranthene	0.28	0.021	0.3495	0	81.0	49.3	131			
Benzo(k)fluoranthene	0.27	0.021	0.3495	0	77.8	50.6	127			
Benzo(a)pyrene	0.28	0.021	0.3495	0	79.5	53.8	117			
Dibenz(a,h)anthracene	0.31	0.021	0.3495	0	89.5	52	130			
Benzo(g,h,i)perylene	0.28	0.021	0.3495	0.006384	76.9	49.4	123			
Indeno(1,2,3-cd)pyrene	0.28	0.021	0.3495	0	81.0	49.5	124			
Surr: N-hexadecane	1.1		1.546		68.2	27	106			
Surr: Benzo(e)pyrene	0.28		0.3495		79.9	34.7	131			

Sample ID **1407B98-003Amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0081**	Batch ID: **14448**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587287** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.021	0.3521	0	71.4	42.6	115	0.330	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407B98**

29-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1407B98-003Amsd** SampType: **MSD** TestCode: **EPA Method 8270C: PAHs**

Client ID: **FFOR-CF-0081** Batch ID: **14448** RunNo: **20195**

Prep Date: **7/27/2014** Analysis Date: **7/28/2014** SeqNo: **587287** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.25	0.021	0.3521	0	71.0	42.4	122	1.64	20	
2-Methylnaphthalene	0.25	0.021	0.3521	0	71.6	45.2	120	0.472	21.2	
Acenaphthylene	0.24	0.021	0.3521	0	67.1	39.7	116	1.19	20	
Acenaphthene	0.22	0.021	0.3521	0	62.4	41.4	119	4.91	20.5	
Fluorene	0.24	0.021	0.3521	0	68.0	44.2	123	6.00	20	
Phenanthrene	0.27	0.021	0.3521	0	76.4	48	120	4.53	22	
Anthracene	0.27	0.021	0.3521	0.006738	75.7	43.8	120	6.38	26.6	
Fluoranthene	0.28	0.021	0.3521	0	78.8	54	125	1.27	23.7	
Pyrene	0.26	0.021	0.3521	0.006029	71.8	55	120	5.11	29.3	
Benz(a)anthracene	0.26	0.021	0.3521	0	72.7	50.9	125	3.86	25.4	
Chrysene	0.29	0.021	0.3521	0.004965	80.8	45.3	127	6.13	27.6	
Benzo(b)fluoranthene	0.28	0.021	0.3521	0	78.8	49.3	131	2.03	20	
Benzo(k)fluoranthene	0.26	0.021	0.3521	0	74.0	50.6	127	4.17	31.3	
Benzo(a)pyrene	0.27	0.021	0.3521	0	77.7	53.8	117	1.56	22.1	
Dibenz(a,h)anthracene	0.31	0.021	0.3521	0	87.5	52	130	1.53	21.2	
Benzo(g,h,i)perylene	0.27	0.021	0.3521	0.006384	75.7	49.4	123	0.799	25.9	
Indeno(1,2,3-cd)pyrene	0.27	0.021	0.3521	0	77.9	49.5	124	3.19	20.4	
Surr: N-hexadecane	1.1		1.558		69.9	27	106	0	0	
Surr: Benzo(e)pyrene	0.29		0.3521		81.8	34.7	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407B98 RcptNo: 1

Received by/date: 07/24/14

Logged By: **Ashley Gallegos** 7/24/2014 5:00:00 PM

Completed By: **Ashley Gallegos** 7/24/2014 5:02:48 PM

Reviewed By: 07/25/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	18.6	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-006

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 24 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/24/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/24/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 18.4 °C	Date: 07/24/14 Time: 1700
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID: FFOR-CF-0079 = 1.6 ppm all others 0.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0079	FFOR-EXCSO-02-SO-FFOR-CF-0079-RE	24 JUL 2014	09:30	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		1407B98-00
FFOR-CF-0080	FFOR-EXCSO-03-SO-FFOR-CF-0080-RE	24 JUL 2014	10:39	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-002
FFOR-CF-0081	FFOR-EXCSO-04-SO-FFOR-CF-0081-RE	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-003
FFOR-CF-0081-MS	FFOR-EXCSO-04-SO-FFOR-CF-0081-MS	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-004
FFOR-CF-0081-MSD	FFOR-EXCSO-04-SO-FFOR-CF-0081-MS	24 JUL 2014	14:57	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-005

ATO

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 01, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407C55

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/25/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407C55**
Date: **8/1/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

MTBE, bromomethane and vinyl acetate had low recoveries for the CCV using the low level 8260 soil method. These compounds were also analyzed by the standard 8260 method with a passing CCV. The PQL for MTBE is 0.05mg/kg, the PQL for bromomethane is 0.15 mg/kg and the PQL for Vinyl acetate is 0.50 mg/kg by the standard 8260 method. All three of these compounds were below the PQL for the standard 8260 method.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0032
Project: Kirtland AFB
Collection Date: 7/25/2014 9:06:00 AM
Lab ID: 1407C55-001
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.5	12		mg/Kg-dr	1	7/29/2014 10:28:38 AM	14454
Motor Oil Range Organics (MRO)	ND	58	58		mg/Kg-dr	1	7/29/2014 10:28:38 AM	14454
Surr: DNOP	98.2	0	57.9-140		%REC	1	7/29/2014 10:28:38 AM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	14	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	5.8	0.21	0.28		mg/Kg-dr	1	7/29/2014 11:53:12 AM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Acenaphthylene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Aniline	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Anthracene	ND	0.099	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Benz(a)anthracene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Benzo(a)pyrene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Benzo(b)fluoranthene	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Benzo(g,h,i)perylene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Benzo(k)fluoranthene	ND	0.17	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Bis(2-chloroethoxy)methane	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Bis(2-chloroethyl)ether	ND	0.18	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.085	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Bromophenyl phenyl ether	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Butyl benzyl phthalate	ND	0.097	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Carbazole	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Chloronaphthalene	ND	0.13	0.57		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Chlorophenol	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Chlorophenyl phenyl ether	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Chrysene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Di-n-butyl phthalate	ND	0.10	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Di-n-octyl phthalate	ND	0.57	0.92		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Dibenz(a,h)anthracene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Dibenzofuran	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
1,2-Dichlorobenzene	ND	0.089	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
1,3-Dichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
1,4-Dichlorobenzene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
3,3´-Dichlorobenzidine	ND	0.13	0.57		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Project: Kirtland AFB
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Lab ID: 1407C55-001
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Dimethyl phthalate	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4-Dichlorophenol	ND	0.14	0.92		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4-Dimethylphenol	ND	0.14	0.69		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.094	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4-Dinitrophenol	ND	0.16	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4-Dinitrotoluene	ND	0.17	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,6-Dinitrotoluene	ND	0.14	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Fluoranthene	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Fluorene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Hexachlorobenzene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Hexachlorobutadiene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Hexachlorocyclopentadiene	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Hexachloroethane	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Indeno(1,2,3-cd)pyrene	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Isophorone	ND	0.15	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Methylnaphthalene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
3+4-Methylphenol	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
N-Nitrosodi-n-propylamine	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
N-Nitrosodimethylamine	ND	0.17	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
N-Nitrosodiphenylamine	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Naphthalene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Nitroaniline	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
3-Nitroaniline	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Nitroaniline	ND	0.11	0.92		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Nitrobenzene	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2-Nitrophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
4-Nitrophenol	ND	0.14	0.57		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Pentachlorophenol	ND	0.19	0.92		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Phenanthrene	ND	0.083	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Phenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Pyrene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Pyridine	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
1,2,4-Trichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4,5-Trichlorophenol	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
2,4,6-Trichlorophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 3:43:53 PM	14447
Surr: 2-Fluorophenol	78.7		21-111		%REC	1	7/28/2014 3:43:53 PM	14447
Surr: Phenol-d5	71.8		23.1-117		%REC	1	7/28/2014 3:43:53 PM	14447

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Project: Kirtland AFB
Collection Date: 7/25/2014 9:06:00 AM
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Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	73.1		22.7-88.9		%REC	1	7/28/2014 3:43:53 PM	14447
Surr: Nitrobenzene-d5	80.8		24.5-126		%REC	1	7/28/2014 3:43:53 PM	14447
Surr: 2-Fluorobiphenyl	84.9		21.2-129		%REC	1	7/28/2014 3:43:53 PM	14447
Surr: 4-Terphenyl-d14	74.5		39.4-107		%REC	1	7/28/2014 3:43:53 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Toluene	0.00102	0.000728	0.00146	J	mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Ethylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Xylenes, Total	ND	0.00146	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2,4-Trimethylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,3,5-Trimethylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Naphthalene	ND	0.00146	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Acetone	0.0147	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Bromobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Bromodichloromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Bromoform	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Bromomethane	0.000802	0.000728	0.00364	J	mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
2-Butanone	ND	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Carbon tetrachloride	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Chlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Chloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Chloroform	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Chloromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
2-Chlorotoluene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Carbon disulfide	ND	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
4-Chlorotoluene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
cis-1,2-DCE	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
cis-1,3-Dichloropropene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Dibromochloromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Dibromomethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2-Dichlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,3-Dichlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,4-Dichlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Dichlorodifluoromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1-Dichloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2-Dichloropropane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,3-Dichloropropane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
2,2-Dichloropropane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1-Dichloropropene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Hexachlorobutadiene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Isopropylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
4-Isopropyltoluene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Methylene chloride	ND	0.00146	0.00364		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
n-Butylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
2-Hexanone	ND	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
n-Propylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
sec-Butylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Styrene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
4-Methyl-2-pentanone	ND	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
tert-Butylbenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Tetrachloroethene (PCE)	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
trans-1,2-DCE	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
trans-1,3-Dichloropropene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2,3-Trichlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2,4-Trichlorobenzene	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1,1-Trichloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,1,2-Trichloroethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Trichloroethene (TCE)	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Trichlorofluoromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
1,2,3-Trichloropropane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Vinyl chloride	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Vinyl acetate	ND	0.00728	0.00728		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Bromochloromethane	ND	0.000728	0.00146		mg/Kg-dr	1	7/25/2014 5:29:16 PM	14444
Surr: 1,2-Dichloroethane-d4	82.8	0	70-130		%REC	1	7/25/2014 5:29:16 PM	14444
Surr: 4-Bromofluorobenzene	100	0	65.3-135		%REC	1	7/25/2014 5:29:16 PM	14444
Surr: Dibromofluoromethane	93.3	0	70-130		%REC	1	7/25/2014 5:29:16 PM	14444
Surr: Toluene-d8	104	0	70-130		%REC	1	7/25/2014 5:29:16 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.46	3.6		mg/Kg-dr	1	7/28/2014 4:13:03 PM	R20183
Surr: BFB	108	0	61.2-137		%REC	1	7/28/2014 4:13:03 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0033
Project: Kirtland AFB
Collection Date: 7/25/2014 9:06:00 AM
Lab ID: 1407C55-002
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.5	12		mg/Kg-dr	1	7/29/2014 10:58:56 AM	14454
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/29/2014 10:58:56 AM	14454
Surr: DNOP	92.4	0	57.9-140		%REC	1	7/29/2014 10:58:56 AM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	15	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.9	0.21	0.29		mg/Kg-dr	1	7/29/2014 11:55:41 AM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Acenaphthylene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Aniline	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Anthracene	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Benz(a)anthracene	0.28	0.13	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Benzo(a)pyrene	0.29	0.14	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Benzo(b)fluoranthene	0.47	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Benzo(g,h,i)perylene	0.28	0.14	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Benzo(k)fluoranthene	0.20	0.18	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Bis(2-chloroethoxy)methane	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Bis(2-chloroethyl)ether	ND	0.19	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.086	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.16	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Bromophenyl phenyl ether	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Butyl benzyl phthalate	ND	0.099	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Carbazole	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Chloro-3-methylphenol	ND	0.12	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Chloroaniline	ND	0.12	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Chloronaphthalene	ND	0.13	0.58		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Chlorophenol	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Chlorophenyl phenyl ether	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Chrysene	0.33	0.12	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Di-n-butyl phthalate	ND	0.10	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Di-n-octyl phthalate	ND	0.58	0.93		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Dibenz(a,h)anthracene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Dibenzofuran	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
1,2-Dichlorobenzene	ND	0.090	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
1,3-Dichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
1,4-Dichlorobenzene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
3,3´-Dichlorobenzidine	ND	0.13	0.58		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Dimethyl phthalate	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4-Dichlorophenol	ND	0.14	0.93		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4-Dimethylphenol	ND	0.14	0.69		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.095	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4-Dinitrophenol	ND	0.16	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4-Dinitrotoluene	ND	0.17	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,6-Dinitrotoluene	ND	0.14	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Fluoranthene	0.28	0.10	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Fluorene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Hexachlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Hexachlorobutadiene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Hexachlorocyclopentadiene	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Hexachloroethane	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Indeno(1,2,3-cd)pyrene	0.26	0.15	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Isophorone	ND	0.15	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Methylnaphthalene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Methylphenol	ND	0.13	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
3+4-Methylphenol	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
N-Nitrosodi-n-propylamine	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
N-Nitrosodimethylamine	ND	0.17	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
N-Nitrosodiphenylamine	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Naphthalene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Nitroaniline	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
3-Nitroaniline	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Nitroaniline	ND	0.11	0.93		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Nitrobenzene	ND	0.13	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2-Nitrophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
4-Nitrophenol	ND	0.14	0.58		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Pentachlorophenol	ND	0.19	0.93		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Phenanthrene	ND	0.084	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Phenol	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Pyrene	0.31	0.13	0.46	J	mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Pyridine	ND	0.13	1.2		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
1,2,4-Trichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4,5-Trichlorophenol	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
2,4,6-Trichlorophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:11:32 PM	14447
Surr: 2-Fluorophenol	81.6		21-111		%REC	1	7/28/2014 5:11:32 PM	14447
Surr: Phenol-d5	76.0		23.1-117		%REC	1	7/28/2014 5:11:32 PM	14447

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Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	72.6		22.7-88.9		%REC	1	7/28/2014 5:11:32 PM	14447
Surr: Nitrobenzene-d5	81.5		24.5-126		%REC	1	7/28/2014 5:11:32 PM	14447
Surr: 2-Fluorobiphenyl	80.4		21.2-129		%REC	1	7/28/2014 5:11:32 PM	14447
Surr: 4-Terphenyl-d14	75.9		39.4-107		%REC	1	7/28/2014 5:11:32 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Toluene	0.00104	0.000750	0.00150	J	mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Ethylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Xylenes, Total	ND	0.00150	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2,4-Trimethylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,3,5-Trimethylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Naphthalene	ND	0.00150	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Acetone	0.0136	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Bromobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Bromodichloromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Bromoform	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Bromomethane	ND	0.000750	0.00375		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
2-Butanone	ND	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Carbon tetrachloride	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Chlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Chloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Chloroform	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Chloromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
2-Chlorotoluene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Carbon disulfide	ND	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
4-Chlorotoluene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
cis-1,2-DCE	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
cis-1,3-Dichloropropene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Dibromochloromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Dibromomethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2-Dichlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,3-Dichlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,4-Dichlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Dichlorodifluoromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1-Dichloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2-Dichloropropane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,3-Dichloropropane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
2,2-Dichloropropane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1-Dichloropropene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Hexachlorobutadiene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Isopropylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
4-Isopropyltoluene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Methylene chloride	ND	0.00150	0.00375		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
n-Butylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
2-Hexanone	ND	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
n-Propylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
sec-Butylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Styrene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
4-Methyl-2-pentanone	ND	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
tert-Butylbenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Tetrachloroethene (PCE)	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
trans-1,2-DCE	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
trans-1,3-Dichloropropene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2,3-Trichlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2,4-Trichlorobenzene	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1,1-Trichloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,1,2-Trichloroethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Trichloroethene (TCE)	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Trichlorofluoromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
1,2,3-Trichloropropane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Vinyl chloride	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Vinyl acetate	ND	0.00750	0.00750		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Bromochloromethane	ND	0.000750	0.00150		mg/Kg-dr	1	7/25/2014 6:58:42 PM	14444
Surr: 1,2-Dichloroethane-d4	93.6	0	70-130		%REC	1	7/25/2014 6:58:42 PM	14444
Surr: 4-Bromofluorobenzene	95.2	0	65.3-135		%REC	1	7/25/2014 6:58:42 PM	14444
Surr: Dibromofluoromethane	91.2	0	70-130		%REC	1	7/25/2014 6:58:42 PM	14444
Surr: Toluene-d8	102	0	70-130		%REC	1	7/25/2014 6:58:42 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.49	3.8		mg/Kg-dr	1	7/28/2014 5:37:12 PM	R20183
Surr: BFB	113	0	61.2-137		%REC	1	7/28/2014 5:37:12 PM	R20183

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0034
Project: Kirtland AFB
Collection Date: 7/25/2014 9:20:00 AM
Lab ID: 1407C55-003
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.4	12		mg/Kg-dr	1	7/29/2014 11:29:14 AM	14454
Motor Oil Range Organics (MRO)	ND	58	58		mg/Kg-dr	1	7/29/2014 11:29:14 AM	14454
Surr: DNOP	97.2	0	57.9-140		%REC	1	7/29/2014 11:29:14 AM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	15	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.3	0.22	0.30		mg/Kg-dr	1	7/29/2014 11:58:08 AM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Acenaphthylene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Aniline	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Anthracene	ND	0.099	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Benz(a)anthracene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Benzo(a)pyrene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Benzo(b)fluoranthene	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Benzo(g,h,i)perylene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Benzo(k)fluoranthene	ND	0.17	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Bis(2-chloroethoxy)methane	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Bis(2-chloroethyl)ether	ND	0.18	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.085	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Bromophenyl phenyl ether	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Butyl benzyl phthalate	ND	0.097	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Carbazole	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Chloronaphthalene	ND	0.13	0.57		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Chlorophenol	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Chlorophenyl phenyl ether	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Chrysene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Di-n-butyl phthalate	ND	0.10	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Di-n-octyl phthalate	ND	0.57	0.92		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Dibenz(a,h)anthracene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Dibenzofuran	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
1,2-Dichlorobenzene	ND	0.089	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
1,3-Dichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
1,4-Dichlorobenzene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
3,3´-Dichlorobenzidine	ND	0.13	0.57		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0034
Project: Kirtland AFB
Collection Date: 7/25/2014 9:20:00 AM
Lab ID: 1407C55-003
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Dimethyl phthalate	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4-Dichlorophenol	ND	0.14	0.92		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4-Dimethylphenol	ND	0.14	0.69		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.094	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4-Dinitrophenol	ND	0.16	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4-Dinitrotoluene	ND	0.17	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,6-Dinitrotoluene	ND	0.14	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Fluoranthene	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Fluorene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Hexachlorobenzene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Hexachlorobutadiene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Hexachlorocyclopentadiene	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Hexachloroethane	ND	0.16	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Indeno(1,2,3-cd)pyrene	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Isophorone	ND	0.15	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Methylnaphthalene	ND	0.14	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
3+4-Methylphenol	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
N-Nitrosodi-n-propylamine	ND	0.15	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
N-Nitrosodimethylamine	ND	0.17	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
N-Nitrosodiphenylamine	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Naphthalene	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Nitroaniline	ND	0.11	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
3-Nitroaniline	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Nitroaniline	ND	0.11	0.92		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Nitrobenzene	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2-Nitrophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
4-Nitrophenol	ND	0.14	0.57		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Pentachlorophenol	ND	0.19	0.92		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Phenanthrene	ND	0.083	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Phenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Pyrene	ND	0.12	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Pyridine	ND	0.13	1.1		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
1,2,4-Trichlorobenzene	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4,5-Trichlorophenol	ND	0.10	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
2,4,6-Trichlorophenol	ND	0.13	0.46		mg/Kg-dr	1	7/28/2014 5:40:48 PM	14447
Surr: 2-Fluorophenol	90.6		21-111		%REC	1	7/28/2014 5:40:48 PM	14447
Surr: Phenol-d5	86.5		23.1-117		%REC	1	7/28/2014 5:40:48 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0034
Project: Kirtland AFB
Collection Date: 7/25/2014 9:20:00 AM
Lab ID: 1407C55-003
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	80.3		22.7-88.9		%REC	1	7/28/2014 5:40:48 PM	14447
Surr: Nitrobenzene-d5	89.9		24.5-126		%REC	1	7/28/2014 5:40:48 PM	14447
Surr: 2-Fluorobiphenyl	91.4		21.2-129		%REC	1	7/28/2014 5:40:48 PM	14447
Surr: 4-Terphenyl-d14	84.3		39.4-107		%REC	1	7/28/2014 5:40:48 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Toluene	0.000764	0.000613	0.00123	J	mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Ethylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Xylenes, Total	ND	0.00123	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2,4-Trimethylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,3,5-Trimethylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Naphthalene	ND	0.00123	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Acetone	0.00891	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Bromobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Bromodichloromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Bromoform	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Bromomethane	ND	0.000613	0.00307		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
2-Butanone	ND	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Carbon tetrachloride	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Chlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Chloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Chloroform	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Chloromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
2-Chlorotoluene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Carbon disulfide	ND	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
4-Chlorotoluene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
cis-1,2-DCE	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
cis-1,3-Dichloropropene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Dibromochloromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Dibromomethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2-Dichlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,3-Dichlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,4-Dichlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Dichlorodifluoromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1-Dichloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0034
Project: Kirtland AFB
Collection Date: 7/25/2014 9:20:00 AM
Lab ID: 1407C55-003
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2-Dichloropropane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,3-Dichloropropane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
2,2-Dichloropropane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1-Dichloropropene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Hexachlorobutadiene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Isopropylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
4-Isopropyltoluene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Methylene chloride	ND	0.00123	0.00307		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
n-Butylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
2-Hexanone	ND	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
n-Propylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
sec-Butylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Styrene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
4-Methyl-2-pentanone	ND	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
tert-Butylbenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Tetrachloroethene (PCE)	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
trans-1,2-DCE	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
trans-1,3-Dichloropropene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2,3-Trichlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2,4-Trichlorobenzene	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1,1-Trichloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,1,2-Trichloroethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Trichloroethene (TCE)	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Trichlorofluoromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
1,2,3-Trichloropropane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Vinyl chloride	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Vinyl acetate	ND	0.00613	0.00613		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Bromochloromethane	ND	0.000613	0.00123		mg/Kg-dr	1	7/25/2014 7:28:32 PM	14444
Surr: 1,2-Dichloroethane-d4	98.5	0	70-130		%REC	1	7/25/2014 7:28:32 PM	14444
Surr: 4-Bromofluorobenzene	93.0	0	65.3-135		%REC	1	7/25/2014 7:28:32 PM	14444
Surr: Dibromofluoromethane	93.4	0	70-130		%REC	1	7/25/2014 7:28:32 PM	14444
Surr: Toluene-d8	99.2	0	70-130		%REC	1	7/25/2014 7:28:32 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.42	3.3		mg/Kg-dr	1	7/28/2014 6:05:20 PM	R20183
Surr: BFB	111	0	61.2-137		%REC	1	7/28/2014 6:05:20 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0035
Project: Kirtland AFB
Collection Date: 7/25/2014 9:28:00 AM
Lab ID: 1407C55-004
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.5	12		mg/Kg-dr	1	7/29/2014 11:59:39 AM	14454
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/29/2014 11:59:39 AM	14454
Surr: DNOP	95.7	0	57.9-140		%REC	1	7/29/2014 11:59:39 AM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	16	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.1	0.44	0.60		mg/Kg-dr	2	7/29/2014 12:01:49 PM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.056	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Acenaphthylene	ND	0.057	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Aniline	ND	0.070	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Anthracene	ND	0.051	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Benz(a)anthracene	ND	0.064	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Benzo(a)pyrene	ND	0.071	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Benzo(b)fluoranthene	ND	0.081	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Benzo(g,h,i)perylene	ND	0.071	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Benzo(k)fluoranthene	ND	0.089	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Bis(2-chloroethoxy)methane	ND	0.079	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Bis(2-chloroethyl)ether	ND	0.094	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.044	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.079	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Bromophenyl phenyl ether	ND	0.059	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Butyl benzyl phthalate	ND	0.050	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Carbazole	ND	0.053	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Chloro-3-methylphenol	ND	0.062	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Chloroaniline	ND	0.062	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Chloronaphthalene	ND	0.067	0.29		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Chlorophenol	ND	0.073	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Chlorophenyl phenyl ether	ND	0.067	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Chrysene	ND	0.060	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Di-n-butyl phthalate	ND	0.053	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Di-n-octyl phthalate	ND	0.29	0.47		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Dibenz(a,h)anthracene	ND	0.070	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Dibenzofuran	ND	0.079	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
1,2-Dichlorobenzene	ND	0.046	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
1,3-Dichlorobenzene	ND	0.067	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
1,4-Dichlorobenzene	ND	0.073	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
3,3´-Dichlorobenzidine	ND	0.065	0.29		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0035
Project: Kirtland AFB
Collection Date: 7/25/2014 9:28:00 AM
Lab ID: 1407C55-004
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.053	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Dimethyl phthalate	ND	0.065	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4-Dichlorophenol	ND	0.072	0.47		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4-Dimethylphenol	ND	0.070	0.35		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.048	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4-Dinitrophenol	ND	0.083	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4-Dinitrotoluene	ND	0.087	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,6-Dinitrotoluene	ND	0.070	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Fluoranthene	ND	0.053	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Fluorene	ND	0.069	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Hexachlorobenzene	ND	0.064	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Hexachlorobutadiene	ND	0.056	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Hexachlorocyclopentadiene	ND	0.076	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Hexachloroethane	ND	0.083	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Indeno(1,2,3-cd)pyrene	ND	0.078	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Isophorone	ND	0.077	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Methylnaphthalene	ND	0.070	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Methylphenol	ND	0.067	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
3+4-Methylphenol	ND	0.079	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
N-Nitrosodi-n-propylamine	ND	0.078	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
N-Nitrosodimethylamine	ND	0.089	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
N-Nitrosodiphenylamine	ND	0.069	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Naphthalene	ND	0.056	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Nitroaniline	ND	0.057	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
3-Nitroaniline	ND	0.069	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Nitroaniline	ND	0.057	0.47		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Nitrobenzene	ND	0.066	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2-Nitrophenol	ND	0.065	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
4-Nitrophenol	ND	0.072	0.29		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Pentachlorophenol	ND	0.095	0.47		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Phenanthrene	ND	0.043	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Phenol	ND	0.069	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Pyrene	ND	0.064	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Pyridine	ND	0.065	0.59		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
1,2,4-Trichlorobenzene	ND	0.068	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4,5-Trichlorophenol	ND	0.052	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
2,4,6-Trichlorophenol	ND	0.064	0.24		mg/Kg-dr	1	7/28/2014 6:10:02 PM	14447
Surr: 2-Fluorophenol	74.0		21-111		%REC	1	7/28/2014 6:10:02 PM	14447
Surr: Phenol-d5	72.8		23.1-117		%REC	1	7/28/2014 6:10:02 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0035
Project: Kirtland AFB
Collection Date: 7/25/2014 9:28:00 AM
Lab ID: 1407C55-004
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	66.0		22.7-88.9		%REC	1	7/28/2014 6:10:02 PM	14447
Surr: Nitrobenzene-d5	77.8		24.5-126		%REC	1	7/28/2014 6:10:02 PM	14447
Surr: 2-Fluorobiphenyl	72.9		21.2-129		%REC	1	7/28/2014 6:10:02 PM	14447
Surr: 4-Terphenyl-d14	75.8		39.4-107		%REC	1	7/28/2014 6:10:02 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.000861	0.000642	0.00128	J	mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Toluene	0.00139	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Ethylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Xylenes, Total	ND	0.00128	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2,4-Trimethylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,3,5-Trimethylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Naphthalene	ND	0.00128	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Acetone	0.0101	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Bromobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Bromodichloromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Bromoform	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Bromomethane	ND	0.000642	0.00321		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
2-Butanone	ND	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Carbon tetrachloride	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Chlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Chloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Chloroform	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Chloromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
2-Chlorotoluene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Carbon disulfide	ND	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
4-Chlorotoluene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
cis-1,2-DCE	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
cis-1,3-Dichloropropene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Dibromochloromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Dibromomethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2-Dichlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,3-Dichlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,4-Dichlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Dichlorodifluoromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1-Dichloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0035
Project: Kirtland AFB
Collection Date: 7/25/2014 9:28:00 AM
Lab ID: 1407C55-004
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2-Dichloropropane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,3-Dichloropropane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
2,2-Dichloropropane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1-Dichloropropene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Hexachlorobutadiene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Isopropylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
4-Isopropyltoluene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Methylene chloride	ND	0.00128	0.00321		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
n-Butylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
2-Hexanone	ND	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
n-Propylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
sec-Butylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Styrene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
4-Methyl-2-pentanone	ND	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
tert-Butylbenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Tetrachloroethene (PCE)	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
trans-1,2-DCE	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
trans-1,3-Dichloropropene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2,3-Trichlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2,4-Trichlorobenzene	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1,1-Trichloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,1,2-Trichloroethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Trichloroethene (TCE)	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Trichlorofluoromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
1,2,3-Trichloropropane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Vinyl chloride	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Vinyl acetate	ND	0.00642	0.00642		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Bromochloromethane	ND	0.000642	0.00128		mg/Kg-dr	1	7/25/2014 7:58:21 PM	14444
Surr: 1,2-Dichloroethane-d4	94.3	0	70-130		%REC	1	7/25/2014 7:58:21 PM	14444
Surr: 4-Bromofluorobenzene	101	0	65.3-135		%REC	1	7/25/2014 7:58:21 PM	14444
Surr: Dibromofluoromethane	87.9	0	70-130		%REC	1	7/25/2014 7:58:21 PM	14444
Surr: Toluene-d8	97.0	0	70-130		%REC	1	7/25/2014 7:58:21 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.41	3.2		mg/Kg-dr	1	7/28/2014 6:33:16 PM	R20183
Surr: BFB	108	0	61.2-137		%REC	1	7/28/2014 6:33:16 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0036
Project: Kirtland AFB
Collection Date: 7/25/2014 9:37:00 AM
Lab ID: 1407C55-005
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.3	11		mg/Kg-dr	1	7/29/2014 12:30:12 PM	14454
Motor Oil Range Organics (MRO)	ND	57	57		mg/Kg-dr	1	7/29/2014 12:30:12 PM	14454
Surr: DNOP	95.8	0	57.9-140		%REC	1	7/29/2014 12:30:12 PM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	14	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.7	0.21	0.29		mg/Kg-dr	1	7/29/2014 12:03:03 PM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Acenaphthylene	ND	0.056	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Aniline	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Anthracene	ND	0.050	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Benz(a)anthracene	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Benzo(a)pyrene	ND	0.069	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Benzo(b)fluoranthene	ND	0.079	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Benzo(g,h,i)perylene	ND	0.070	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Benzo(k)fluoranthene	ND	0.087	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Bis(2-chloroethoxy)methane	ND	0.078	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Bis(2-chloroethyl)ether	ND	0.092	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.043	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.077	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Bromophenyl phenyl ether	ND	0.058	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Butyl benzyl phthalate	ND	0.049	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Carbazole	ND	0.052	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Chloro-3-methylphenol	ND	0.061	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Chloroaniline	ND	0.061	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Chloronaphthalene	ND	0.066	0.29		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Chlorophenol	ND	0.072	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Chlorophenyl phenyl ether	ND	0.065	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Chrysene	ND	0.059	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Di-n-butyl phthalate	ND	0.052	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Di-n-octyl phthalate	ND	0.29	0.46		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Dibenz(a,h)anthracene	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Dibenzofuran	ND	0.077	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
1,2-Dichlorobenzene	ND	0.045	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
1,3-Dichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
1,4-Dichlorobenzene	ND	0.071	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
3,3´-Dichlorobenzidine	ND	0.064	0.29		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0036
Project: Kirtland AFB
Collection Date: 7/25/2014 9:37:00 AM
Lab ID: 1407C55-005
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.052	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Dimethyl phthalate	ND	0.064	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4-Dichlorophenol	ND	0.071	0.46		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4-Dimethylphenol	ND	0.069	0.35		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.047	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4-Dinitrophenol	ND	0.081	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4-Dinitrotoluene	ND	0.085	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,6-Dinitrotoluene	ND	0.068	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Fluoranthene	ND	0.052	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Fluorene	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Hexachlorobenzene	ND	0.063	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Hexachlorobutadiene	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Hexachlorocyclopentadiene	ND	0.074	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Hexachloroethane	ND	0.081	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Indeno(1,2,3-cd)pyrene	ND	0.076	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Isophorone	ND	0.075	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Methylnaphthalene	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Methylphenol	ND	0.066	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
3+4-Methylphenol	ND	0.078	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
N-Nitrosodi-n-propylamine	ND	0.076	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
N-Nitrosodimethylamine	ND	0.087	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
N-Nitrosodiphenylamine	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Naphthalene	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Nitroaniline	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
3-Nitroaniline	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Nitroaniline	ND	0.055	0.46		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Nitrobenzene	ND	0.064	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2-Nitrophenol	ND	0.063	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
4-Nitrophenol	ND	0.071	0.29		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Pentachlorophenol	ND	0.093	0.46		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Phenanthrene	ND	0.042	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Phenol	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Pyrene	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Pyridine	ND	0.064	0.58		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
1,2,4-Trichlorobenzene	ND	0.066	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4,5-Trichlorophenol	ND	0.051	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
2,4,6-Trichlorophenol	ND	0.063	0.23		mg/Kg-dr	1	7/28/2014 6:39:13 PM	14447
Surr: 2-Fluorophenol	77.0		21-111		%REC	1	7/28/2014 6:39:13 PM	14447
Surr: Phenol-d5	74.0		23.1-117		%REC	1	7/28/2014 6:39:13 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0036
Project: Kirtland AFB
Collection Date: 7/25/2014 9:37:00 AM
Lab ID: 1407C55-005
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	69.2		22.7-88.9		%REC	1	7/28/2014 6:39:13 PM	14447
Surr: Nitrobenzene-d5	80.8		24.5-126		%REC	1	7/28/2014 6:39:13 PM	14447
Surr: 2-Fluorobiphenyl	76.9		21.2-129		%REC	1	7/28/2014 6:39:13 PM	14447
Surr: 4-Terphenyl-d14	71.1		39.4-107		%REC	1	7/28/2014 6:39:13 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Toluene	0.000784	0.000545	0.00109	J	mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Ethylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Xylenes, Total	ND	0.00109	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2,4-Trimethylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,3,5-Trimethylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Naphthalene	ND	0.00109	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Acetone	0.0111	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Bromobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Bromodichloromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Bromoform	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Bromomethane	ND	0.000545	0.00272		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
2-Butanone	ND	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Carbon tetrachloride	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Chlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Chloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Chloroform	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Chloromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
2-Chlorotoluene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Carbon disulfide	ND	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
4-Chlorotoluene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
cis-1,2-DCE	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
cis-1,3-Dichloropropene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Dibromochloromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Dibromomethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2-Dichlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,3-Dichlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,4-Dichlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Dichlorodifluoromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1-Dichloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0036
Project: Kirtland AFB
Collection Date: 7/25/2014 9:37:00 AM
Lab ID: 1407C55-005
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2-Dichloropropane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,3-Dichloropropane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
2,2-Dichloropropane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1-Dichloropropene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Hexachlorobutadiene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Isopropylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
4-Isopropyltoluene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Methylene chloride	ND	0.00109	0.00272		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
n-Butylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
2-Hexanone	ND	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
n-Propylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
sec-Butylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Styrene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
4-Methyl-2-pentanone	ND	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
tert-Butylbenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Tetrachloroethene (PCE)	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
trans-1,2-DCE	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
trans-1,3-Dichloropropene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2,3-Trichlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2,4-Trichlorobenzene	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1,1-Trichloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,1,2-Trichloroethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Trichloroethene (TCE)	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Trichlorofluoromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
1,2,3-Trichloropropane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Vinyl chloride	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Vinyl acetate	ND	0.00545	0.00545		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Bromochloromethane	ND	0.000545	0.00109		mg/Kg-dr	1	7/25/2014 8:28:11 PM	14444
Surr: 1,2-Dichloroethane-d4	88.7	0	70-130		%REC	1	7/25/2014 8:28:11 PM	14444
Surr: 4-Bromofluorobenzene	98.4	0	65.3-135		%REC	1	7/25/2014 8:28:11 PM	14444
Surr: Dibromofluoromethane	87.3	0	70-130		%REC	1	7/25/2014 8:28:11 PM	14444
Surr: Toluene-d8	103	0	70-130		%REC	1	7/25/2014 8:28:11 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.39	3.0		mg/Kg-dr	1	7/28/2014 7:01:13 PM	R20183
Surr: BFB	111	0	61.2-137		%REC	1	7/28/2014 7:01:13 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0037
Project: Kirtland AFB
Collection Date: 7/25/2014 3:30:00 PM
Lab ID: 1407C55-006
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.5	12		mg/Kg-dr	1	7/29/2014 1:00:25 PM	14454
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/29/2014 1:00:25 PM	14454
Surr: DNOP	102	0	57.9-140		%REC	1	7/29/2014 1:00:25 PM	14454
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	15	1.0	1.0		wt%	1	7/25/2014 5:35:00 PM	R20172
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.5	0.22	0.30		mg/Kg-dr	1	7/29/2014 12:09:15 PM	14462
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Acenaphthylene	ND	0.056	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Aniline	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Anthracene	ND	0.049	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Benz(a)anthracene	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Benzo(a)pyrene	ND	0.069	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Benzo(b)fluoranthene	ND	0.078	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Benzo(g,h,i)perylene	ND	0.069	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Benzo(k)fluoranthene	ND	0.087	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Bis(2-chloroethoxy)methane	ND	0.077	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Bis(2-chloroethyl)ether	ND	0.092	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Bis(2-chloroisopropyl)ether	ND	0.042	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Bis(2-ethylhexyl)phthalate	ND	0.077	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Bromophenyl phenyl ether	ND	0.058	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Butyl benzyl phthalate	ND	0.049	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Carbazole	ND	0.051	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Chloro-3-methylphenol	ND	0.060	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Chloroaniline	ND	0.060	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Chloronaphthalene	ND	0.065	0.29		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Chlorophenol	ND	0.071	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Chlorophenyl phenyl ether	ND	0.065	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Chrysene	ND	0.058	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Di-n-butyl phthalate	ND	0.051	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Di-n-octyl phthalate	ND	0.29	0.46		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Dibenz(a,h)anthracene	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Dibenzofuran	ND	0.077	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
1,2-Dichlorobenzene	ND	0.045	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
1,3-Dichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
1,4-Dichlorobenzene	ND	0.071	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
3,3´-Dichlorobenzidine	ND	0.063	0.29		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0037
Project: Kirtland AFB
Collection Date: 7/25/2014 3:30:00 PM
Lab ID: 1407C55-006
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.051	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Dimethyl phthalate	ND	0.063	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4-Dichlorophenol	ND	0.070	0.46		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4-Dimethylphenol	ND	0.068	0.34		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4,6-Dinitro-2-methylphenol	ND	0.047	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4-Dinitrophenol	ND	0.081	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4-Dinitrotoluene	ND	0.084	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,6-Dinitrotoluene	ND	0.068	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Fluoranthene	ND	0.051	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Fluorene	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Hexachlorobenzene	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Hexachlorobutadiene	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Hexachlorocyclopentadiene	ND	0.074	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Hexachloroethane	ND	0.080	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Indeno(1,2,3-cd)pyrene	ND	0.076	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Isophorone	ND	0.075	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Methylnaphthalene	ND	0.068	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Methylphenol	ND	0.065	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
3+4-Methylphenol	ND	0.077	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
N-Nitrosodi-n-propylamine	ND	0.076	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
N-Nitrosodimethylamine	ND	0.086	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
N-Nitrosodiphenylamine	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Naphthalene	ND	0.054	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Nitroaniline	ND	0.055	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
3-Nitroaniline	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Nitroaniline	ND	0.055	0.46		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Nitrobenzene	ND	0.064	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2-Nitrophenol	ND	0.063	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
4-Nitrophenol	ND	0.070	0.29		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Pentachlorophenol	ND	0.093	0.46		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Phenanthrene	ND	0.041	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Phenol	ND	0.067	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Pyrene	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Pyridine	ND	0.063	0.57		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
1,2,4-Trichlorobenzene	ND	0.066	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4,5-Trichlorophenol	ND	0.051	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
2,4,6-Trichlorophenol	ND	0.062	0.23		mg/Kg-dr	1	7/28/2014 7:08:24 PM	14447
Surr: 2-Fluorophenol	92.8		21-111		%REC	1	7/28/2014 7:08:24 PM	14447
Surr: Phenol-d5	88.0		23.1-117		%REC	1	7/28/2014 7:08:24 PM	14447

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0037
Project: Kirtland AFB
Collection Date: 7/25/2014 3:30:00 PM
Lab ID: 1407C55-006
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	72.6		22.7-88.9		%REC	1	7/28/2014 7:08:24 PM	14447
Surr: Nitrobenzene-d5	91.1		24.5-126		%REC	1	7/28/2014 7:08:24 PM	14447
Surr: 2-Fluorobiphenyl	88.2		21.2-129		%REC	1	7/28/2014 7:08:24 PM	14447
Surr: 4-Terphenyl-d14	79.6		39.4-107		%REC	1	7/28/2014 7:08:24 PM	14447
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.000808	0.000607	0.00121	J	mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Toluene	0.00123	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Ethylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Xylenes, Total	ND	0.00121	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Methyl tert-butyl ether (MTBE)	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2,4-Trimethylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,3,5-Trimethylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2-Dichloroethane (EDC)	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2-Dibromoethane (EDB)	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Naphthalene	ND	0.00121	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Acetone	0.00867	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Bromobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Bromodichloromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Bromoform	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Bromomethane	ND	0.000607	0.00304		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
2-Butanone	ND	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Carbon tetrachloride	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Chlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Chloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Chloroform	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Chloromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
2-Chlorotoluene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Carbon disulfide	ND	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
4-Chlorotoluene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
cis-1,2-DCE	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
cis-1,3-Dichloropropene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2-Dibromo-3-chloropropane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Dibromochloromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Dibromomethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2-Dichlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,3-Dichlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,4-Dichlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Dichlorodifluoromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1-Dichloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0037
Project: Kirtland AFB
Collection Date: 7/25/2014 3:30:00 PM
Lab ID: 1407C55-006
Matrix: SOIL
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2-Dichloropropane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,3-Dichloropropane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
2,2-Dichloropropane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1-Dichloropropene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Hexachlorobutadiene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Isopropylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
4-Isopropyltoluene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Methylene chloride	ND	0.00121	0.00304		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
n-Butylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
2-Hexanone	ND	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
n-Propylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
sec-Butylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Styrene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
4-Methyl-2-pentanone	ND	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
tert-Butylbenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1,1,2-Tetrachloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1,2,2-Tetrachloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Tetrachloroethene (PCE)	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
trans-1,2-DCE	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
trans-1,3-Dichloropropene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2,3-Trichlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2,4-Trichlorobenzene	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1,1-Trichloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,1,2-Trichloroethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Trichloroethene (TCE)	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Trichlorofluoromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
1,2,3-Trichloropropane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Vinyl chloride	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Vinyl acetate	ND	0.00607	0.00607		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Bromochloromethane	ND	0.000607	0.00121		mg/Kg-dr	1	7/25/2014 8:58:00 PM	14444
Surr: 1,2-Dichloroethane-d4	93.0	0	70-130		%REC	1	7/25/2014 8:58:00 PM	14444
Surr: 4-Bromofluorobenzene	91.4	0	65.3-135		%REC	1	7/25/2014 8:58:00 PM	14444
Surr: Dibromofluoromethane	85.5	0	70-130		%REC	1	7/25/2014 8:58:00 PM	14444
Surr: Toluene-d8	95.8	0	70-130		%REC	1	7/25/2014 8:58:00 PM	14444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.39	3.0		mg/Kg-dr	1	7/28/2014 7:29:03 PM	R20183
Surr: BFB	112	0	61.2-137		%REC	1	7/28/2014 7:29:03 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407C55-007
Matrix: MEOH BLAN
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Toluene	ND	0.0055	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Acetone	ND	0.049	0.75		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Bromomethane	0.018	0.0071	0.15	J	mg/Kg	1	7/28/2014 7:56:55 PM	R20183
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Chloroform	ND	0.017	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407C55-007
Matrix: MEOH BLAN
Received Date: 7/25/2014 5:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Methylene chloride	ND	0.0047	0.15		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Styrene	ND	0.0039	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Surr: Dibromofluoromethane	89.5	0	70-130		%REC	1	7/28/2014 7:56:55 PM	R20183
Surr: 1,2-Dichloroethane-d4	83.6	0	70-130		%REC	1	7/28/2014 7:56:55 PM	R20183
Surr: Toluene-d8	94.0	0	70-130		%REC	1	7/28/2014 7:56:55 PM	R20183
Surr: 4-Bromofluorobenzene	84.0	0	70-130		%REC	1	7/28/2014 7:56:55 PM	R20183
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/28/2014 7:56:55 PM	R20183
Surr: BFB	107	0	61.2-137		%REC	1	7/28/2014 7:56:55 PM	R20183

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**LCS-14454**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**14454**		RunNo:	**20170**				
Prep Date:	**7/28/2014**	Analysis Date:	**7/28/2014**		SeqNo:	**586344**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	68.6	130			
Surr: DNOP	4.4		5.000		88.1	57.9	140			

Sample ID	**MB-14454**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**14454**		RunNo:	**20170**				
Prep Date:	**7/28/2014**	Analysis Date:	**7/28/2014**		SeqNo:	**586345**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.9	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14442MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20183**	RunNo: **20183**
Prep Date: **7/25/2014**	Analysis Date: **7/28/2014**	SeqNo: **587343** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.13	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14442MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20183**	RunNo: **20183**
Prep Date: **7/25/2014**	Analysis Date: **7/28/2014**	SeqNo: **587343** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.45		0.5000		90.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.9	70	130			
Surr: Toluene-d8	0.44		0.5000		88.8	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		82.8	70	130			

Sample ID **LCS-14442MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20183**	RunNo: **20183**
Prep Date: **7/25/2014**	Analysis Date: **7/28/2014**	SeqNo: **587344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.0	70	130			
Toluene	1.0	0.050	1.000	0	99.6	60.1	120			
Chlorobenzene	0.97	0.050	1.000	0	97.0	70	130			

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-14442MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20183**	RunNo: **20183**
Prep Date: **7/25/2014**	Analysis Date: **7/28/2014**	SeqNo: **587344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.94	0.050	1.000	0	93.8	78.2	162			
Trichloroethene (TCE)	0.89	0.050	1.000	0	88.8	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		86.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.8	70	130			
Surr: Toluene-d8	0.46		0.5000		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**
01-Aug-14

Client: CB & I Federal Services LLC
Project: Kirtland AFB

Sample ID **mb-14444**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14444**	RunNo: **20175**
Prep Date: **7/25/2014**	Analysis Date: **7/25/2014**	SeqNo: **586372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	ND	0.00200								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14444**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14444**	RunNo: **20175**
Prep Date: **7/25/2014**	Analysis Date: **7/25/2014**	SeqNo: **586372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0206		0.02000		103	70	130			
Surr: 4-Bromofluorobenzene	0.0198		0.02000		99.1	65.3	135			
Surr: Dibromofluoromethane	0.0185		0.02000		92.7	70	130			
Surr: Toluene-d8	0.0206		0.02000		103	70	130			

Sample ID **lcs-14444**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14444**	RunNo: **20175**
Prep Date: **7/25/2014**	Analysis Date: **7/25/2014**	SeqNo: **586375** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00980	0.00200	0.01000	0	98.0	70	130			
Toluene	0.00961	0.00200	0.01000	0	96.1	70	130			
Chlorobenzene	0.00971	0.00200	0.01000	0	97.1	70	130			
1,1-Dichloroethene	0.00791	0.00200	0.01000	0	79.1	70	130			
Trichloroethene (TCE)	0.00965	0.00200	0.01000	0	96.5	61.6	131			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-14444**	SampType:	**LCS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**LCSS**	Batch ID:	**14444**		RunNo:	**20175**				
Prep Date:	**7/25/2014**	Analysis Date:	**7/25/2014**		SeqNo:	**586375**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0197		0.02000		98.7	70	130			
Surr: 4-Bromofluorobenzene	0.0194		0.02000		97.0	65.3	135			
Surr: Dibromofluoromethane	0.0189		0.02000		94.3	70	130			
Surr: Toluene-d8	0.0200		0.02000		100	70	130			

Sample ID	**1407c55-001ams**	SampType:	**MS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**14444**		RunNo:	**20175**				
Prep Date:	**7/25/2014**	Analysis Date:	**7/25/2014**		SeqNo:	**586377**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00700	0.00147	0.007337	0	95.4	70	130			
Toluene	0.00652	0.00147	0.007337	0.001022	74.9	70	130			
Chlorobenzene	0.00705	0.00147	0.007337	0	96.1	70	130			
1,1-Dichloroethene	0.00624	0.00147	0.007337	0	85.0	70	130			
Trichloroethene (TCE)	0.00710	0.00147	0.007337	0	96.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.0142		0.01467		96.6	70	130			
Surr: 4-Bromofluorobenzene	0.0147		0.01467		100	65.3	135			
Surr: Dibromofluoromethane	0.0116		0.01467		78.8	70	130			
Surr: Toluene-d8	0.0138		0.01467		93.7	70	130			

Sample ID	**1407c55-001amsd**	SampType:	**MSD**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**14444**		RunNo:	**20175**				
Prep Date:	**7/25/2014**	Analysis Date:	**7/25/2014**		SeqNo:	**586378**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00625	0.00144	0.007219	0	86.6	70	130	11.2	20	
Toluene	0.00619	0.00144	0.007219	0.001022	71.5	70	130	5.25	20	
Chlorobenzene	0.00615	0.00144	0.007219	0	85.2	70	130	13.6	20	
1,1-Dichloroethene	0.00557	0.00144	0.007219	0	77.1	70	130	11.3	20	
Trichloroethene (TCE)	0.00622	0.00144	0.007219	0	86.2	70	130	13.1	20	
Surr: 1,2-Dichloroethane-d4	0.0137		0.01444		95.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0143		0.01444		99.0	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0112		0.01444		77.3	70	130	0	0	
Surr: Toluene-d8	0.0138		0.01444		95.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14447**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14447**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	0.047	0.50								J
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14447**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14447**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.0		3.330		59.0	21	111			
Surr: Phenol-d5	1.9		3.330		58.0	23.1	117			
Surr: 2,4,6-Tribromophenol	2.2		3.330		64.7	22.7	88.9			
Surr: Nitrobenzene-d5	1.0		1.670		59.9	24.5	126			
Surr: 2-Fluorobiphenyl	1.1		1.670		65.6	21.2	129			
Surr: 4-Terphenyl-d14	1.1		1.670		64.9	39.4	107			

Sample ID **lcs-14447**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14447**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14447**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14447**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	80.2	50.7	110			
4-Chloro-3-methylphenol	2.9	0.50	3.330	0	86.3	47.8	107			
2-Chlorophenol	2.9	0.20	3.330	0	86.0	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	78.1	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	72.9	44.9	114			
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	84.6	38.7	128			
4-Nitrophenol	2.7	0.25	3.330	0	81.8	40.2	103			
Pentachlorophenol	2.5	0.40	3.330	0	73.7	32.9	94			
Phenol	3.1	0.20	3.330	0	93.6	44.1	109			
Pyrene	1.4	0.20	1.670	0	86.7	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	77.0	49.5	115			
Surr: 2-Fluorophenol	2.8		3.330		83.9	21	111			
Surr: Phenol-d5	2.8		3.330		84.6	23.1	117			
Surr: 2,4,6-Tribromophenol	3.0		3.330		91.4	22.7	88.9			S
Surr: Nitrobenzene-d5	1.5		1.670		91.8	24.5	126			
Surr: 2-Fluorobiphenyl	1.6		1.670		94.9	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		94.4	39.4	107			

Sample ID **1407C55-001AMS**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0032**	Batch ID: **14447**	RunNo: **20195**
Prep Date: **7/27/2014**	Analysis Date: **7/28/2014**	SeqNo: **587299** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.46	1.940	0	71.4	53.8	92.8			
4-Chloro-3-methylphenol	3.1	1.2	3.868	0	80.9	34.9	104			
2-Chlorophenol	2.6	0.46	3.868	0	66.9	18.2	105			
1,4-Dichlorobenzene	1.2	0.46	1.940	0	60.3	18.1	112			
2,4-Dinitrotoluene	1.2	1.2	1.940	0	63.8	22	144			
N-Nitrosodi-n-propylamine	1.3	0.46	1.940	0	65.1	58.6	101			
4-Nitrophenol	2.9	0.58	3.868	0	74.2	13.7	127			
Pentachlorophenol	2.3	0.93	3.868	0	60.3	16.5	107			
Phenol	2.7	0.46	3.868	0	70.0	12.5	114			
Pyrene	2.1	0.46	1.940	0	107	14.2	116			
1,2,4-Trichlorobenzene	1.2	0.46	1.940	0	61.4	16	125			
Surr: 2-Fluorophenol	2.5		3.868		63.5	21	111			
Surr: Phenol-d5	2.7		3.868		69.3	23.1	117			
Surr: 2,4,6-Tribromophenol	2.9		3.868		73.8	22.7	88.9			
Surr: Nitrobenzene-d5	1.5		1.940		75.7	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.940		79.6	21.2	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407C55-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**14447**		RunNo:	**20195**				
Prep Date:	**7/27/2014**	Analysis Date:	**7/28/2014**		SeqNo:	**587299**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.5		1.940		77.2	39.4	107			

Sample ID	**1407C55-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**14447**		RunNo:	**20195**				
Prep Date:	**7/27/2014**	Analysis Date:	**7/28/2014**		SeqNo:	**587300**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.47	1.945	0	63.7	53.8	92.8	11.2	22	
4-Chloro-3-methylphenol	2.6	1.2	3.878	0	67.3	34.9	104	18.2	27.3	
2-Chlorophenol	2.5	0.47	3.878	0	65.5	18.2	105	1.73	26.3	
1,4-Dichlorobenzene	1.1	0.47	1.945	0	58.3	18.1	112	3.17	27.4	
2,4-Dinitrotoluene	1.1	1.2	1.945	0	58.4	22	144	8.69	27.4	J
N-Nitrosodi-n-propylamine	1.2	0.47	1.945	0	63.6	58.6	101	2.15	22.6	
4-Nitrophenol	2.5	0.58	3.878	0	64.2	13.7	127	14.2	20	
Pentachlorophenol	2.2	0.93	3.878	0	57.7	16.5	107	4.11	27.1	
Phenol	2.5	0.47	3.878	0	64.9	12.5	114	7.21	32.2	
Pyrene	1.6	0.47	1.945	0	82.6	14.2	116	25.3	29.5	
1,2,4-Trichlorobenzene	1.1	0.47	1.945	0	56.6	16	125	7.79	27.8	
Surr: 2-Fluorophenol	2.4		3.878		63.0	21	111	0	0	
Surr: Phenol-d5	2.6		3.878		66.0	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	2.9		3.878		73.8	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.4		1.945		71.5	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.6		1.945		79.8	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.5		1.945		76.7	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14462**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14462**		RunNo:	**20212**				
Prep Date:	**7/28/2014**	Analysis Date:	**7/29/2014**		SeqNo:	**587543**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14462**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14462**		RunNo:	**20212**				
Prep Date:	**7/28/2014**	Analysis Date:	**7/29/2014**		SeqNo:	**587544**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	92.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407C55**

01-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**2.5ng lcsb GRO**	SampType:	**LCS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R20183**		RunNo:	**20183**				
Prep Date:		Analysis Date:	**7/28/2014**		SeqNo:	**587375**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	80	120			
Surr: BFB	500		500.0		100	61.2	137			

Sample ID	**1407C55-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**R20183**		RunNo:	**20183**				
Prep Date:		Analysis Date:	**7/28/2014**		SeqNo:	**587379**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.6	17.84	0	119	58	134			
Surr: BFB	410		356.8		115	61.2	137			

Sample ID	**1407C55-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**FFOR-CF-0032**	Batch ID:	**R20183**		RunNo:	**20183**				
Prep Date:		Analysis Date:	**7/28/2014**		SeqNo:	**587380**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.6	17.84	0	118	58	134	0.473	20	
Surr: BFB	400		356.8		112	61.2	137	0	0	

Sample ID	**5mL-rb**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**R20183**		RunNo:	**20183**				
Prep Date:		Analysis Date:	**7/28/2014**		SeqNo:	**587400**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.8	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407C55 RcptNo: 1

Received by/date: AT 07/25/14

Logged By: Anne Thorne 7/25/2014 Anne Thorne

Completed By: Anne Thorne 7/25/2014 Anne Thorne

Reviewed By: 07/25/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 25 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification:
Non-hazard ✓ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/25/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/25/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: 07/25/14 Time: 1700
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE BELOW 1.0 PPM IN EVERY SAMPLE

5.5

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0032	FFOR-EXC-30-DS-FFOR-CF-0032-REG	25 JUL 2014	09:06	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1407C55-a
FFOR-CF-0032	FFOR-EXC-30-DS-FFOR-CF-0032-REG	25 JUL 2014	09:06	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		— c01
FFOR-CF-0033	FFOR-EXC-30-DS-FFOR-CF-0033-FD	25 JUL 2014	09:06	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		— c02
FFOR-CF-0033	FFOR-EXC-30-DS-FFOR-CF-0033-FD	25 JUL 2014	09:06	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-c02
FFOR-CF-0034	FFOR-EXC-31-DS-FFOR-CF-0034-REG	25 JUL 2014	09:20	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-c03

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

1407L53

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
						VOCs by SW846 8260B					
FFOR-CF-0034	FFOR-EXC-31-DS-FFOR-CF-0034-REG	25 JUL 2014	09:20	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
FFOR-CF-0035	FFOR-EXC-32-DS-FFOR-CF-0035-REG	25 JUL 2014	09:28	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004
FFOR-CF-0035	FFOR-EXC-32-DS-FFOR-CF-0035-REG	25 JUL 2014	09:28	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-004
FFOR-CF-0036	FFOR-EXC-33-DS-FFOR-CF-0036-REG	25 JUL 2014	09:37	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0036	FFOR-EXC-33-DS-FFOR-CF-0036-REG	25 JUL 2014	09:37	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
FFOR-CF-0037	FFOR-EXC-34-DS-FFOR-CF-0037-REG	25 JUL 2014	15:30	5 g TerraCore	1 None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0037	FFOR-EXC-34-DS-FFOR-CF-0037-REG	25 JUL 2014	15:30	8 oz CWM	1 None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-006

Meoh Blank AT 07/25/14 -007

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 06, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407D63

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/29/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407D63**
Date: **8/6/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0038
Project: Kirtland AFB
Collection Date: 7/29/2014 8:55:00 AM
Lab ID: 1407D63-001
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	130	5.9	11		mg/Kg-dr	1	7/31/2014 2:23:45 PM	14492
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/31/2014 2:23:45 PM	14492
Surr: DNOP	88.4	0	57.9-140		%REC	1	7/31/2014 2:23:45 PM	14492
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.5	1.0	1.0		wt%	1	7/30/2014 8:42:00 AM	R20265
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.0	0.20	0.27		mg/Kg-dr	1	7/31/2014 12:13:06 PM	14496
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Aniline	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Anthracene	ND	0.096	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Benz(a)anthracene	0.23	0.12	0.44	J	mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Benzo(a)pyrene	0.15	0.13	0.44	J	mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Benzo(b)fluoranthene	0.23	0.15	0.44	J	mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Benzo(g,h,i)perylene	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Bis(2-chloroethyl)ether	ND	0.18	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Bis(2-chloroisopropyl)ether	ND	0.082	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Butyl benzyl phthalate	ND	0.094	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Carbazole	ND	0.099	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Chloronaphthalene	ND	0.13	0.55		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Chlorophenyl phenyl ether	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Chrysene	0.14	0.11	0.44	J	mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Di-n-butyl phthalate	ND	0.099	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Di-n-octyl phthalate	ND	0.55	0.88		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
1,2-Dichlorobenzene	ND	0.086	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
3,3´-Dichlorobenzidine	ND	0.12	0.55		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0038
Project: Kirtland AFB
Collection Date: 7/29/2014 8:55:00 AM
Lab ID: 1407D63-001
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.099	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4-Dichlorophenol	ND	0.14	0.88		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4-Dimethylphenol	ND	0.13	0.66		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4,6-Dinitro-2-methylphenol	ND	0.091	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4-Dinitrophenol	ND	0.16	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Fluoranthene	ND	0.099	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Hexachlorobutadiene	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Indeno(1,2,3-cd)pyrene	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Methylnaphthalene	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
N-Nitrosodi-n-propylamine	ND	0.15	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
N-Nitrosodimethylamine	ND	0.17	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Naphthalene	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Nitroaniline	ND	0.11	0.88		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
4-Nitrophenol	ND	0.14	0.55		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Pentachlorophenol	ND	0.18	0.88		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Phenanthrene	ND	0.080	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Phenol	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Pyrene	0.16	0.12	0.44	J	mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4,5-Trichlorophenol	ND	0.098	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	7/31/2014 3:47:10 PM	14505
Surr: 2-Fluorophenol	87.9		21-111		%REC	1	7/31/2014 3:47:10 PM	14505
Surr: Phenol-d5	82.7		23.1-117		%REC	1	7/31/2014 3:47:10 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0038
Project: Kirtland AFB
Collection Date: 7/29/2014 8:55:00 AM
Lab ID: 1407D63-001
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	91.7		22.7-88.9	S	%REC	1	7/31/2014 3:47:10 PM	14505
Surr: Nitrobenzene-d5	91.8		24.5-126		%REC	1	7/31/2014 3:47:10 PM	14505
Surr: 2-Fluorobiphenyl	94.0		21.2-129		%REC	1	7/31/2014 3:47:10 PM	14505
Surr: 4-Terphenyl-d14	84.2		39.4-107		%REC	1	7/31/2014 3:47:10 PM	14505
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Toluene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Ethylbenzene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Methyl tert-butyl ether (MTBE)	ND	0.079	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2,4-Trimethylbenzene	ND	0.026	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,3,5-Trimethylbenzene	ND	0.022	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2-Dichloroethane (EDC)	ND	0.035	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2-Dibromoethane (EDB)	ND	0.024	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Naphthalene	ND	0.018	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Acetone	ND	0.21	3.2		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Bromobenzene	ND	0.033	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Bromodichloromethane	ND	0.027	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Bromoform	ND	0.020	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Bromomethane	ND	0.030	0.63		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
2-Butanone	ND	0.097	2.1		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Carbon disulfide	ND	0.056	2.1		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Carbon tetrachloride	ND	0.030	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Chlorobenzene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Chloroethane	ND	0.035	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Chloroform	ND	0.073	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Chloromethane	ND	0.019	0.63		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
2-Chlorotoluene	ND	0.019	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
4-Chlorotoluene	ND	0.061	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
cis-1,2-DCE	ND	0.019	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
cis-1,3-Dichloropropene	ND	0.026	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2-Dibromo-3-chloropropane	ND	0.029	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Dibromochloromethane	ND	0.021	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Dibromomethane	ND	0.024	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2-Dichlorobenzene	ND	0.025	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,3-Dichlorobenzene	ND	0.025	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,4-Dichlorobenzene	ND	0.025	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Dichlorodifluoromethane	ND	0.051	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1-Dichloroethane	ND	0.015	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1-Dichloroethene	ND	0.017	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0038
Project: Kirtland AFB
Collection Date: 7/29/2014 8:55:00 AM
Lab ID: 1407D63-001
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
1,2-Dichloropropane	ND	0.019	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,3-Dichloropropane	ND	0.040	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
2,2-Dichloropropane	ND	0.023	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1-Dichloropropene	ND	0.033	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Hexachlorobutadiene	ND	0.031	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
2-Hexanone	ND	0.10	2.1		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Isopropylbenzene	ND	0.017	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
4-Isopropyltoluene	ND	0.019	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
4-Methyl-2-pentanone	ND	0.082	2.1		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Methylene chloride	ND	0.020	0.63		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
n-Butylbenzene	ND	0.019	0.63		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
n-Propylbenzene	ND	0.021	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
sec-Butylbenzene	ND	0.020	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Styrene	ND	0.017	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
tert-Butylbenzene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1,1,2-Tetrachloroethane	ND	0.025	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1,2,2-Tetrachloroethane	ND	0.035	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Tetrachloroethene (PCE)	ND	0.026	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
trans-1,2-DCE	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
trans-1,3-Dichloropropene	ND	0.029	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2,3-Trichlorobenzene	ND	0.024	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2,4-Trichlorobenzene	ND	0.023	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1,1-Trichloroethane	ND	0.021	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,1,2-Trichloroethane	ND	0.026	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Trichloroethene (TCE)	ND	0.029	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Trichlorofluoromethane	ND	0.022	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
1,2,3-Trichloropropane	ND	0.032	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Vinyl chloride	ND	0.017	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Xylenes, Total	ND	0.063	0.42		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Bromochloromethane	ND	0.097	0.21		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Vinyl acetate	ND	2.1	2.1		mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Surr: Dibromofluoromethane	94.1	0	70-130		%REC	5	7/31/2014 1:28:12 PM	R20304
Surr: 1,2-Dichloroethane-d4	86.2	0	70-130		%REC	5	7/31/2014 1:28:12 PM	R20304
Surr: Toluene-d8	95.3	0	70-130		%REC	5	7/31/2014 1:28:12 PM	R20304
Surr: 4-Bromofluorobenzene	90.6	0	70-130		%REC	5	7/31/2014 1:28:12 PM	R20304
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	4.3	2.7	21	J	mg/Kg-dr	5	7/31/2014 1:28:12 PM	R20304
Surr: BFB	103	0	61.2-137		%REC	5	7/31/2014 1:28:12 PM	R20304

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0039
Project: Kirtland AFB
Collection Date: 7/29/2014 9:04:00 AM
Lab ID: 1407D63-002
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	7/31/2014 3:25:03 PM	14492
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/31/2014 3:25:03 PM	14492
Surr: DNOP	85.3	0	57.9-140		%REC	1	7/31/2014 3:25:03 PM	14492
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	12	1.0	1.0		wt%	1	7/30/2014 8:42:00 AM	R20265
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.5	0.21	0.28		mg/Kg-dr	1	7/31/2014 12:22:08 PM	14496
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.055	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Acenaphthylene	ND	0.056	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Aniline	ND	0.068	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Anthracene	ND	0.050	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Benz(a)anthracene	ND	0.063	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Benzo(a)pyrene	ND	0.069	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Benzo(b)fluoranthene	ND	0.079	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Benzo(g,h,i)perylene	ND	0.070	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Benzo(k)fluoranthene	ND	0.088	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Bis(2-chloroethoxy)methane	ND	0.078	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Bis(2-chloroethyl)ether	ND	0.092	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Bis(2-chloroisopropyl)ether	ND	0.043	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Bis(2-ethylhexyl)phthalate	ND	0.078	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Bromophenyl phenyl ether	ND	0.058	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Butyl benzyl phthalate	ND	0.049	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Carbazole	ND	0.052	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Chloro-3-methylphenol	ND	0.061	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Chloroaniline	ND	0.061	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Chloronaphthalene	ND	0.066	0.29		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Chlorophenol	ND	0.072	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Chlorophenyl phenyl ether	ND	0.065	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Chrysene	ND	0.059	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Di-n-butyl phthalate	0.055	0.052	0.58	J	mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Di-n-octyl phthalate	ND	0.29	0.46		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Dibenz(a,h)anthracene	ND	0.069	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Dibenzofuran	ND	0.077	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
1,2-Dichlorobenzene	ND	0.045	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
1,3-Dichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
1,4-Dichlorobenzene	ND	0.072	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
3,3´-Dichlorobenzidine	ND	0.064	0.29		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0039
Project: Kirtland AFB
Collection Date: 7/29/2014 9:04:00 AM
Lab ID: 1407D63-002
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.052	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Dimethyl phthalate	ND	0.064	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4-Dichlorophenol	ND	0.071	0.46		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4-Dimethylphenol	ND	0.069	0.35		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4,6-Dinitro-2-methylphenol	ND	0.047	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4-Dinitrophenol	ND	0.081	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4-Dinitrotoluene	ND	0.085	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,6-Dinitrotoluene	ND	0.068	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Fluoranthene	ND	0.052	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Fluorene	ND	0.067	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Hexachlorobenzene	ND	0.063	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Hexachlorobutadiene	ND	0.055	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Hexachlorocyclopentadiene	ND	0.075	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Hexachloroethane	ND	0.081	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Indeno(1,2,3-cd)pyrene	ND	0.076	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Isophorone	ND	0.076	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Methylnaphthalene	ND	0.069	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Methylphenol	ND	0.066	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
3+4-Methylphenol	ND	0.078	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
N-Nitrosodi-n-propylamine	ND	0.076	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
N-Nitrosodimethylamine	ND	0.087	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
N-Nitrosodiphenylamine	ND	0.067	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Naphthalene	ND	0.055	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Nitroaniline	ND	0.056	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
3-Nitroaniline	ND	0.067	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Nitroaniline	ND	0.055	0.46		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Nitrobenzene	ND	0.064	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2-Nitrophenol	ND	0.063	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
4-Nitrophenol	ND	0.071	0.29		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Pentachlorophenol	ND	0.094	0.46		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Phenanthrene	ND	0.042	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Phenol	ND	0.068	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Pyrene	ND	0.062	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Pyridine	ND	0.064	0.58		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
1,2,4-Trichlorobenzene	ND	0.067	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4,5-Trichlorophenol	ND	0.051	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
2,4,6-Trichlorophenol	ND	0.063	0.23		mg/Kg-dr	1	7/31/2014 5:14:41 PM	14505
Surr: 2-Fluorophenol	76.9		21-111		%REC	1	7/31/2014 5:14:41 PM	14505
Surr: Phenol-d5	77.2		23.1-117		%REC	1	7/31/2014 5:14:41 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0039
Project: Kirtland AFB
Collection Date: 7/29/2014 9:04:00 AM
Lab ID: 1407D63-002
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	77.1		22.7-88.9		%REC	1	7/31/2014 5:14:41 PM	14505
Surr: Nitrobenzene-d5	79.6		24.5-126		%REC	1	7/31/2014 5:14:41 PM	14505
Surr: 2-Fluorobiphenyl	76.4		21.2-129		%REC	1	7/31/2014 5:14:41 PM	14505
Surr: 4-Terphenyl-d14	77.1		39.4-107		%REC	1	7/31/2014 5:14:41 PM	14505
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Toluene	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Ethylbenzene	ND	0.0047	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Methyl tert-butyl ether (MTBE)	ND	0.017	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2,4-Trimethylbenzene	ND	0.0054	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,3,5-Trimethylbenzene	ND	0.0047	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2-Dichloroethane (EDC)	ND	0.0073	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2-Dibromoethane (EDB)	ND	0.0051	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Naphthalene	ND	0.0037	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Acetone	ND	0.043	0.67		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Bromobenzene	ND	0.0069	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Bromodichloromethane	ND	0.0057	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Bromoform	ND	0.0042	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Bromomethane	ND	0.0064	0.13		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
2-Butanone	ND	0.020	0.44		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Carbon disulfide	ND	0.012	0.44		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Carbon tetrachloride	ND	0.0062	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Chlorobenzene	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Chloroethane	ND	0.0074	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Chloroform	ND	0.015	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Chloromethane	ND	0.0041	0.13		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
2-Chlorotoluene	ND	0.0039	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
4-Chlorotoluene	ND	0.013	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
cis-1,2-DCE	ND	0.0041	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
cis-1,3-Dichloropropene	ND	0.0055	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2-Dibromo-3-chloropropane	ND	0.0061	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Dibromochloromethane	ND	0.0044	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Dibromomethane	ND	0.0051	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2-Dichlorobenzene	ND	0.0053	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,3-Dichlorobenzene	ND	0.0053	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,4-Dichlorobenzene	ND	0.0053	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Dichlorodifluoromethane	ND	0.011	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1-Dichloroethane	ND	0.0031	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1-Dichloroethene	ND	0.0036	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0039
Project: Kirtland AFB
Collection Date: 7/29/2014 9:04:00 AM
Lab ID: 1407D63-002
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
1,2-Dichloropropane	ND	0.0039	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,3-Dichloropropane	ND	0.0083	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
2,2-Dichloropropane	ND	0.0048	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1-Dichloropropene	ND	0.0069	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Hexachlorobutadiene	ND	0.0065	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
2-Hexanone	ND	0.021	0.44		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Isopropylbenzene	ND	0.0035	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
4-Isopropyltoluene	ND	0.0040	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
4-Methyl-2-pentanone	ND	0.017	0.44		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Methylene chloride	ND	0.0042	0.13		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
n-Butylbenzene	ND	0.0039	0.13		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
n-Propylbenzene	ND	0.0045	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
sec-Butylbenzene	ND	0.0043	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Styrene	ND	0.0035	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
tert-Butylbenzene	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1,1,2-Tetrachloroethane	ND	0.0053	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1,2,2-Tetrachloroethane	ND	0.0074	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Tetrachloroethene (PCE)	ND	0.0055	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
trans-1,2-DCE	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
trans-1,3-Dichloropropene	ND	0.0061	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2,3-Trichlorobenzene	ND	0.0050	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2,4-Trichlorobenzene	ND	0.0049	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1,1-Trichloroethane	ND	0.0045	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,1,2-Trichloroethane	ND	0.0054	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Trichloroethene (TCE)	ND	0.0062	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Trichlorofluoromethane	ND	0.0046	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
1,2,3-Trichloropropane	ND	0.0067	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Vinyl chloride	ND	0.0037	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Xylenes, Total	ND	0.013	0.089		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Bromochloromethane	ND	0.020	0.044		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Vinyl acetate	ND	0.44	0.44		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Surr: Dibromofluoromethane	93.0	0	70-130		%REC	1	7/31/2014 2:24:33 PM	R20304
Surr: 1,2-Dichloroethane-d4	83.0	0	70-130		%REC	1	7/31/2014 2:24:33 PM	R20304
Surr: Toluene-d8	90.4	0	70-130		%REC	1	7/31/2014 2:24:33 PM	R20304
Surr: 4-Bromofluorobenzene	86.5	0	70-130		%REC	1	7/31/2014 2:24:33 PM	R20304
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.58	4.4		mg/Kg-dr	1	7/31/2014 2:24:33 PM	R20304
Surr: BFB	110	0	61.2-137		%REC	1	7/31/2014 2:24:33 PM	R20304

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0040
Project: Kirtland AFB
Collection Date: 7/29/2014 9:11:00 AM
Lab ID: 1407D63-003
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	5100	61	110		mg/Kg-dr	10	7/31/2014 4:26:31 PM	14492
Motor Oil Range Organics (MRO)	ND	550	550		mg/Kg-dr	10	7/31/2014 4:26:31 PM	14492
Surr: DNOP	0	0	57.9-140	S	%REC	10	7/31/2014 4:26:31 PM	14492
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.3	1.0	1.0		wt%	1	7/30/2014 8:42:00 AM	R20265
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.4	0.20	0.27		mg/Kg-dr	1	7/31/2014 12:26:59 PM	14496
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Acenaphthylene	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Aniline	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Anthracene	ND	0.096	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Benz(a)anthracene	0.22	0.12	0.45	J	mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Benzo(a)pyrene	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Benzo(b)fluoranthene	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Benzo(g,h,i)perylene	ND	0.14	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Benzo(k)fluoranthene	ND	0.17	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Bis(2-chloroethoxy)methane	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Bis(2-chloroethyl)ether	ND	0.18	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Bis(2-chloroisopropyl)ether	ND	0.083	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Bromophenyl phenyl ether	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Butyl benzyl phthalate	ND	0.095	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Carbazole	ND	0.10	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Chloronaphthalene	ND	0.13	0.56		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Chlorophenol	ND	0.14	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Chlorophenyl phenyl ether	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Chrysene	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Di-n-butyl phthalate	ND	0.10	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Di-n-octyl phthalate	ND	0.56	0.89		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Dibenz(a,h)anthracene	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Dibenzofuran	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
1,2-Dichlorobenzene	ND	0.087	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
1,3-Dichlorobenzene	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
1,4-Dichlorobenzene	ND	0.14	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
3,3´-Dichlorobenzidine	ND	0.12	0.56		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0040
Project: Kirtland AFB
Collection Date: 7/29/2014 9:11:00 AM
Lab ID: 1407D63-003
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.10	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Dimethyl phthalate	ND	0.12	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4-Dichlorophenol	ND	0.14	0.89		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4-Dimethylphenol	ND	0.13	0.67		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4,6-Dinitro-2-methylphenol	ND	0.091	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4-Dinitrophenol	ND	0.16	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Fluoranthene	ND	0.10	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Fluorene	0.15	0.13	0.45	J	mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Hexachlorobenzene	ND	0.12	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Hexachlorobutadiene	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Hexachlorocyclopentadiene	ND	0.14	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Hexachloroethane	ND	0.16	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Indeno(1,2,3-cd)pyrene	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Isophorone	ND	0.15	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Methylnaphthalene	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
3+4-Methylphenol	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
N-Nitrosodi-n-propylamine	ND	0.15	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
N-Nitrosodimethylamine	ND	0.17	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
N-Nitrosodiphenylamine	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Naphthalene	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Nitroaniline	ND	0.11	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
3-Nitroaniline	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Nitroaniline	ND	0.11	0.89		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2-Nitrophenol	ND	0.12	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
4-Nitrophenol	ND	0.14	0.56		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Pentachlorophenol	ND	0.18	0.89		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Phenanthrene	ND	0.081	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Phenol	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Pyrene	ND	0.12	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
1,2,4-Trichlorobenzene	ND	0.13	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4,5-Trichlorophenol	ND	0.099	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
2,4,6-Trichlorophenol	ND	0.12	0.45		mg/Kg-dr	1	7/31/2014 5:43:43 PM	14505
Surr: 2-Fluorophenol	82.6		21-111		%REC	1	7/31/2014 5:43:43 PM	14505
Surr: Phenol-d5	83.9		23.1-117		%REC	1	7/31/2014 5:43:43 PM	14505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0040
Project: Kirtland AFB
Collection Date: 7/29/2014 9:11:00 AM
Lab ID: 1407D63-003
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	106		22.7-88.9	S	%REC	1	7/31/2014 5:43:43 PM	14505
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	7/31/2014 5:43:43 PM	14505
Surr: 2-Fluorobiphenyl	89.0		21.2-129		%REC	1	7/31/2014 5:43:43 PM	14505
Surr: 4-Terphenyl-d14	92.1		39.4-107		%REC	1	7/31/2014 5:43:43 PM	14505
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.090	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Toluene	ND	0.091	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Ethylbenzene	ND	0.088	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Methyl tert-butyl ether (MTBE)	ND	0.31	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2,4-Trimethylbenzene	ND	0.10	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,3,5-Trimethylbenzene	0.65	0.088	0.82	J	mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2-Dichloroethane (EDC)	ND	0.14	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2-Dibromoethane (EDB)	ND	0.094	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Naphthalene	ND	0.068	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Acetone	ND	0.80	12		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Bromobenzene	ND	0.13	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Bromodichloromethane	ND	0.11	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Bromoform	ND	0.077	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Bromomethane	ND	0.12	2.5		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
2-Butanone	ND	0.38	8.2		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Carbon disulfide	ND	0.22	8.2		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Carbon tetrachloride	ND	0.12	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Chlorobenzene	ND	0.090	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Chloroethane	ND	0.14	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Chloroform	ND	0.29	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Chloromethane	ND	0.076	2.5		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
2-Chlorotoluene	ND	0.073	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
4-Chlorotoluene	ND	0.24	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
cis-1,2-DCE	ND	0.075	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
cis-1,3-Dichloropropene	ND	0.10	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2-Dibromo-3-chloropropane	ND	0.11	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Dibromochloromethane	ND	0.081	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Dibromomethane	ND	0.094	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2-Dichlorobenzene	ND	0.097	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,3-Dichlorobenzene	ND	0.099	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,4-Dichlorobenzene	ND	0.098	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Dichlorodifluoromethane	ND	0.20	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1-Dichloroethane	ND	0.056	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1-Dichloroethene	ND	0.066	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0040
Project: Kirtland AFB
Collection Date: 7/29/2014 9:11:00 AM
Lab ID: 1407D63-003
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
1,2-Dichloropropane	ND	0.073	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,3-Dichloropropane	ND	0.15	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
2,2-Dichloropropane	ND	0.089	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1-Dichloropropene	ND	0.13	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Hexachlorobutadiene	ND	0.12	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
2-Hexanone	ND	0.39	8.2		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Isopropylbenzene	ND	0.065	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
4-Isopropyltoluene	0.47	0.074	0.82	J	mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
4-Methyl-2-pentanone	ND	0.32	8.2		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Methylene chloride	ND	0.077	2.5		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
n-Butylbenzene	ND	0.073	2.5		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
n-Propylbenzene	ND	0.083	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
sec-Butylbenzene	ND	0.080	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Styrene	ND	0.064	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
tert-Butylbenzene	ND	0.091	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1,1,2-Tetrachloroethane	ND	0.099	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1,2,2-Tetrachloroethane	ND	0.14	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Tetrachloroethene (PCE)	ND	0.10	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
trans-1,2-DCE	ND	0.091	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
trans-1,3-Dichloropropene	ND	0.11	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2,3-Trichlorobenzene	ND	0.092	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2,4-Trichlorobenzene	ND	0.091	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1,1-Trichloroethane	ND	0.083	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,1,2-Trichloroethane	ND	0.10	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Trichloroethene (TCE)	ND	0.11	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Trichlorofluoromethane	ND	0.086	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
1,2,3-Trichloropropane	ND	0.12	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Vinyl chloride	ND	0.068	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Xylenes, Total	ND	0.24	1.6		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Bromochloromethane	ND	0.38	0.82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Vinyl acetate	ND	8.2	8.2		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Surr: Dibromofluoromethane	100	0	70-130		%REC	20	7/30/2014 4:01:36 PM	R20253
Surr: 1,2-Dichloroethane-d4	89.0	0	70-130		%REC	20	7/30/2014 4:01:36 PM	R20253
Surr: Toluene-d8	92.6	0	70-130		%REC	20	7/30/2014 4:01:36 PM	R20253
Surr: 4-Bromofluorobenzene	92.3	0	70-130		%REC	20	7/30/2014 4:01:36 PM	R20253
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	200	11	82		mg/Kg-dr	20	7/30/2014 4:01:36 PM	R20253
Surr: BFB	102	0	61.2-137		%REC	20	7/30/2014 4:01:36 PM	R20253

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407D63-004
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Toluene	ND	0.0055	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Acetone	ND	0.049	0.75		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Bromomethane	ND	0.0071	0.15		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Chloroform	ND	0.017	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407D63-004
Matrix: MEOH (SOIL)
Received Date: 7/29/2014 5:15:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Methylene chloride	ND	0.0047	0.15		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Styrene	ND	0.0039	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Surr: Dibromofluoromethane	92.8	0	70-130		%REC	1	7/30/2014 4:58:01 PM	R20253
Surr: 1,2-Dichloroethane-d4	87.9	0	70-130		%REC	1	7/30/2014 4:58:01 PM	R20253
Surr: Toluene-d8	93.2	0	70-130		%REC	1	7/30/2014 4:58:01 PM	R20253
Surr: 4-Bromofluorobenzene	78.4	0	70-130		%REC	1	7/30/2014 4:58:01 PM	R20253
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/30/2014 4:58:01 PM	R20253
Surr: BFB	110	0	61.2-137		%REC	1	7/30/2014 4:58:01 PM	R20253

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14492**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14492**	RunNo: **20232**
Prep Date: **7/30/2014**	Analysis Date: **7/30/2014**	SeqNo: **588345** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	57.9	140			

Sample ID **LCS-14492**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14492**	RunNo: **20232**
Prep Date: **7/30/2014**	Analysis Date: **7/30/2014**	SeqNo: **588346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	68.6	130			
Surr: DNOP	4.7		5.000		94.8	57.9	140			

Sample ID **1407D63-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0038**	Batch ID: **14492**	RunNo: **20270**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **589678** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	330	11	53.42	127.5	376	40.1	152			S
Surr: DNOP	4.4		5.342		82.1	57.9	140			

Sample ID **1407D63-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0038**	Batch ID: **14492**	RunNo: **20270**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590112** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	210	11	54.01	127.5	158	40.1	152	42.6	32.1	RS
Surr: DNOP	4.9		5.401		91.5	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **589007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	0.0045	0.10								J
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.11	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	0.010	0.050								J
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **589007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	0.0083	0.050								J
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.45		0.5000		90.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.3	70	130			
Surr: Toluene-d8	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.8	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **589465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	103	60.1	120			
Chlorobenzene	1.0	0.050	1.000	0	101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **589465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	118	78.2	162			
Trichloroethene (TCE)	1.0	0.050	1.000	0	104	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.7	70	130			
Surr: Toluene-d8	0.47		0.5000		93.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.2	70	130			

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590075** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590075** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.47		0.5000		93.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590075** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.8	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.8	70	130			

Sample ID **100ng lcsb**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590076** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	117	70	130			
Toluene	1.2	0.050	1.000	0	116	60.1	120			
Chlorobenzene	1.1	0.050	1.000	0	114	70	130			
1,1-Dichloroethene	1.3	0.050	1.000	0	126	78.2	162			
Trichloroethene (TCE)	1.2	0.050	1.000	0	116	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.6	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.5	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14505**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14505**	RunNo: **20300**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.090	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14505**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14505**	RunNo: **20300**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590020** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.6		3.330		76.9	21	111			
Surr: Phenol-d5	2.7		3.330		79.8	23.1	117			
Surr: 2,4,6-Tribromophenol	3.0		3.330		89.5	22.7	88.9			S
Surr: Nitrobenzene-d5	1.5		1.670		87.1	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		88.3	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		92.9	39.4	107			

Sample ID **lcs-14505**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14505**	RunNo: **20300**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590021** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14505**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14505**	RunNo: **20300**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590021** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.20	1.670	0	81.8	50.7	110			
4-Chloro-3-methylphenol	3.1	0.50	3.330	0	91.7	47.8	107			
2-Chlorophenol	2.8	0.20	3.330	0	84.5	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	76.1	46.1	112			
2,4-Dinitrotoluene	1.3	0.50	1.670	0	77.3	44.9	114			
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	86.2	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	89.7	40.2	103			
Pentachlorophenol	2.3	0.40	3.330	0	69.4	32.9	94			
Phenol	2.8	0.20	3.330	0	84.0	44.1	109			
Pyrene	1.4	0.20	1.670	0	84.6	51.9	109			
1,2,4-Trichlorobenzene	1.2	0.20	1.670	0	71.3	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		81.6	21	111			
Surr: Phenol-d5	2.9		3.330		86.6	23.1	117			
Surr: 2,4,6-Tribromophenol	2.8		3.330		83.1	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		86.8	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		88.2	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		82.9	39.4	107			

Sample ID **1407d63-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0038**	Batch ID: **14505**	RunNo: **20300**
Prep Date: **7/30/2014**	Analysis Date: **7/31/2014**	SeqNo: **590028** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.43	1.806	0	87.1	53.8	92.8			
4-Chloro-3-methylphenol	3.6	1.1	3.600	0	100	34.9	104			
2-Chlorophenol	3.0	0.43	3.600	0	83.5	18.2	105			
1,4-Dichlorobenzene	1.3	0.43	1.806	0	71.6	18.1	112			
2,4-Dinitrotoluene	1.4	1.1	1.806	0	75.0	22	144			
N-Nitrosodi-n-propylamine	1.7	0.43	1.806	0	92.5	58.6	101			
4-Nitrophenol	3.5	0.54	3.600	0	97.6	13.7	127			
Pentachlorophenol	3.6	0.86	3.600	0	99.8	16.5	107			
Phenol	3.0	0.43	3.600	0	82.7	12.5	114			
Pyrene	1.8	0.43	1.806	0.1635	91.5	14.2	116			
1,2,4-Trichlorobenzene	1.6	0.43	1.806	0	89.9	16	125			
Surr: 2-Fluorophenol	2.7		3.600		74.3	21	111			
Surr: Phenol-d5	2.9		3.600		79.4	23.1	117			
Surr: 2,4,6-Tribromophenol	3.4		3.600		93.2	22.7	88.9			S
Surr: Nitrobenzene-d5	1.6		1.806		88.8	24.5	126			
Surr: 2-Fluorobiphenyl	1.7		1.806		95.0	21.2	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407d63-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0038**	Batch ID:	**14505**		RunNo:	**20300**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**590028**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.7		1.806		92.5	39.4	107			

Sample ID	**1407d63-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0038**	Batch ID:	**14505**		RunNo:	**20300**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**590029**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.7	0.43	1.807	0	92.2	53.8	92.8	5.72	22	
4-Chloro-3-methylphenol	3.7	1.1	3.603	0	103	34.9	104	2.51	27.3	
2-Chlorophenol	3.4	0.43	3.603	0	94.6	18.2	105	12.5	26.3	
1,4-Dichlorobenzene	1.5	0.43	1.807	0	83.6	18.1	112	15.5	27.4	
2,4-Dinitrotoluene	1.5	1.1	1.807	0	83.4	22	144	10.7	27.4	
N-Nitrosodi-n-propylamine	1.7	0.43	1.807	0	95.3	58.6	101	3.09	22.6	
4-Nitrophenol	3.9	0.54	3.603	0	107	13.7	127	9.55	20	
Pentachlorophenol	4.0	0.87	3.603	0	111	16.5	107	11.0	27.1	S
Phenol	3.5	0.43	3.603	0	96.6	12.5	114	15.7	32.2	
Pyrene	2.0	0.43	1.807	0.1635	99.5	14.2	116	7.70	29.5	
1,2,4-Trichlorobenzene	1.6	0.43	1.807	0	89.8	16	125	0.0666	27.8	
Surr: 2-Fluorophenol	3.0		3.603		84.6	21	111	0	0	
Surr: Phenol-d5	3.2		3.603		90.0	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	3.7		3.603		103	22.7	88.9	0	0	S
Surr: Nitrobenzene-d5	1.7		1.807		93.2	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.8		1.807		101	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.8		1.807		97.5	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14496**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14496**		RunNo:	**20278**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**589427**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14496**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14496**		RunNo:	**20278**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**589428**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	94.7	80	120			

Sample ID	**1407D63-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0038**	Batch ID:	**14496**		RunNo:	**20278**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**589437**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.28	27.54	3.006	68.0	75	125			S

Sample ID	**1407D63-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0038**	Batch ID:	**14496**		RunNo:	**20278**				
Prep Date:	**7/30/2014**	Analysis Date:	**7/31/2014**		SeqNo:	**589438**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	21	0.27	27.09	3.006	65.7	75	125	4.35	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **588926** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.3	61.2	137			

Sample ID **2.5ng lcs GRO**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20253**	RunNo: **20253**
Prep Date:	Analysis Date: **7/30/2014**	SeqNo: **588928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80	120			
Surr: BFB	490		500.0		98.9	61.2	137			

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590097** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.5	61.2	137			

Sample ID **2.5ng lcs GRO**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590099** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.7	80	120			
Surr: BFB	500		500.0		100	61.2	137			

Sample ID **1407D63-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0038**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590103** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	120	21	105.3	4.312	109	58	134			
Surr: BFB	2200		2106		102	61.2	137			

Sample ID **1407D63-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0038**	Batch ID: **R20304**	RunNo: **20304**
Prep Date:	Analysis Date: **7/31/2014**	SeqNo: **590104** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407D63**

06-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407D63-001a msd**	SampType:	**MSD**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**FFOR-CF-0038**	Batch ID:	**R20304**		RunNo:	**20304**				
Prep Date:		Analysis Date:	**7/31/2014**		SeqNo:	**590104**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	130	21	106.0	4.312	116	58	134	6.52	20	
Surr: BFB	2100		2119		99.5	61.2	137	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407D63 RcptNo: 1

Received by/date: 07/29/2014

Logged By: **Ashley Gallegos** 7/29/2014 5:15:00 PM

Completed By: **Ashley Gallegos** 7/29/2014 5:18:15 PM

Reviewed By: 07/30/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 29 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/29/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 07/29/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 4.1°C	Date: 07/29/2014 Time: ~~05~~ 1715
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID: FFOR-CF-0038, MS, MSD = 225 ppm; FFOR-CF-0039 = 33.4 ppm; FFOR-CF-0040 = 992 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-REG	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1407D03
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-REG	29 JUL 2014	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001
FFOR-CF-0038 MS	FFOR-EXC-35-DS-FFOR-CF-0038-MS-MS	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		AT 0113 1 -002
~~FFOR-CF-0038~~ MSD	~~FFOR-EXC-35-DS-FFOR-CF-0038-MS-MS~~	~~29 JUL 2014~~	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0038 MSD	FFOR-EXC-35-DS-FFOR-CF-0038-MSD	29 JUL 2014	08:55	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		1 -003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

A07130/14

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					1407D63
FFOR-CF-0038	FFOR-EXC-35-DS-FFOR-CF-0038-MSD	29 JUL 2014	08:55	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-0031
FFOR-CF-0039	FFOR-EXC-36-DS-FFOR-CF-0039-REG	29 JUL 2014	09:04	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-002
FFOR-CF-0039	FFOR-EXC-36-DS-FFOR-CF-0039-REG	29 JUL 2014	09:04	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0040	FFOR-EXC-37-DS-FFOR-CF-0040-REG	29 JUL 2014	09:11	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0040	FFOR-EXC-37-DS-FFOR-CF-0040-REG	29 JUL 2014	09:11	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004

MeOH Blank A07130/14

Relinquished By

Relinquished By

Relinquished By

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 08, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407F02

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/31/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407F02**
Date: **8/8/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.
The surrogates were not recoverable for sample "FFOR-CF-0041" due to sample dilution.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

Analytical Notes Regarding EPA Method 8015 DRO/MRO:
The surrogate was not recoverable for sample "FFOR-CF-0041" due to sample dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0041
Project: Kirtland AFB
Collection Date: 7/31/2014 10:50:00 AM
Lab ID: 1407F02-001
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	9900	600	1100		mg/Kg-dr	100	8/4/2014 12:26:23 PM	14544
Motor Oil Range Organics (MRO)	ND	5500	5500		mg/Kg-dr	100	8/4/2014 12:26:23 PM	14544
Surr: DNOP	0	0	57.9-140	S	%REC	100	8/4/2014 12:26:23 PM	14544
PERCENT MOISTURE							Analyst: **KJH**	
Percent Moisture	8.9	1.0	1.0		wt%	1	8/4/2014	R20330
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.0	0.20	0.27		mg/Kg-dr	1	8/5/2014 9:26:54 AM	14564
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.53	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Acenaphthylene	ND	0.53	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Aniline	ND	0.65	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Anthracene	ND	0.47	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Benz(a)anthracene	1.0	0.59	2.2	J	mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Benzo(a)pyrene	ND	0.66	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Benzo(b)fluoranthene	ND	0.75	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Benzo(g,h,i)perylene	ND	0.66	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Benzo(k)fluoranthene	ND	0.83	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Bis(2-chloroethoxy)methane	ND	0.74	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Bis(2-chloroethyl)ether	ND	0.88	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Bis(2-chloroisopropyl)ether	ND	0.41	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Bis(2-ethylhexyl)phthalate	ND	0.74	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Bromophenyl phenyl ether	ND	0.55	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Butyl benzyl phthalate	ND	0.47	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Carbazole	ND	0.49	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Chloro-3-methylphenol	ND	0.58	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Chloroaniline	ND	0.58	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Chloronaphthalene	ND	0.63	2.7		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Chlorophenol	ND	0.68	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Chlorophenyl phenyl ether	ND	0.62	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Chrysene	ND	0.56	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Di-n-butyl phthalate	ND	0.49	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Di-n-octyl phthalate	ND	2.7	4.4		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Dibenz(a,h)anthracene	ND	0.65	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Dibenzofuran	ND	0.73	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
1,2-Dichlorobenzene	ND	0.43	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
1,3-Dichlorobenzene	ND	0.62	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
1,4-Dichlorobenzene	ND	0.68	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
3,3´-Dichlorobenzidine	ND	0.61	2.7		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0041
Project: Kirtland AFB
Collection Date: 7/31/2014 10:50:00 AM
Lab ID: 1407F02-001
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.49	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Dimethyl phthalate	ND	0.61	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4-Dichlorophenol	ND	0.67	4.4		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4-Dimethylphenol	ND	0.65	3.3		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4,6-Dinitro-2-methylphenol	ND	0.45	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4-Dinitrophenol	ND	0.77	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4-Dinitrotoluene	ND	0.81	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,6-Dinitrotoluene	ND	0.65	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Fluoranthene	ND	0.49	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Fluorene	ND	0.64	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Hexachlorobenzene	ND	0.60	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Hexachlorobutadiene	ND	0.53	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Hexachlorocyclopentadiene	ND	0.71	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Hexachloroethane	ND	0.77	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Indeno(1,2,3-cd)pyrene	ND	0.73	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Isophorone	ND	0.72	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Methylnaphthalene	22	0.65	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Methylphenol	ND	0.63	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
3+4-Methylphenol	ND	0.74	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
N-Nitrosodi-n-propylamine	ND	0.73	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
N-Nitrosodimethylamine	ND	0.83	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
N-Nitrosodiphenylamine	ND	0.64	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Naphthalene	13	0.52	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Nitroaniline	ND	0.53	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
3-Nitroaniline	ND	0.64	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Nitroaniline	ND	0.53	4.4		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Nitrobenzene	ND	0.61	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2-Nitrophenol	ND	0.60	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
4-Nitrophenol	ND	0.67	2.7		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Pentachlorophenol	ND	0.89	4.4		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Phenanthrene	ND	0.40	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Phenol	ND	0.64	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Pyrene	ND	0.59	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Pyridine	ND	0.61	5.5		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
1,2,4-Trichlorobenzene	ND	0.63	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4,5-Trichlorophenol	ND	0.49	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
2,4,6-Trichlorophenol	ND	0.60	2.2		mg/Kg-dr	5	8/5/2014 12:21:47 PM	14582
Surr: 2-Fluorophenol	0		21-111	S	%REC	5	8/5/2014 12:21:47 PM	14582
Surr: Phenol-d5	0		23.1-117	S	%REC	5	8/5/2014 12:21:47 PM	14582

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0041
Project: Kirtland AFB
Collection Date: 7/31/2014 10:50:00 AM
Lab ID: 1407F02-001
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	5	8/5/2014 12:21:47 PM	14582
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	5	8/5/2014 12:21:47 PM	14582
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	5	8/5/2014 12:21:47 PM	14582
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	5	8/5/2014 12:21:47 PM	14582
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Toluene	2.2	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Ethylbenzene	8.0	0.034	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Methyl tert-butyl ether (MTBE)	ND	0.12	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2,4-Trimethylbenzene	24	0.039	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,3,5-Trimethylbenzene	6.1	0.034	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2-Dichloroethane (EDC)	ND	0.052	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2-Dibromoethane (EDB)	ND	0.036	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Naphthalene	15	0.026	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Acetone	0.60	0.31	4.8	J	mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Bromobenzene	ND	0.049	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Bromodichloromethane	ND	0.041	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Bromoform	ND	0.030	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Bromomethane	ND	0.046	0.96		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
2-Butanone	0.65	0.15	3.2	J	mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Carbon disulfide	ND	0.084	3.2		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Carbon tetrachloride	ND	0.045	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Chlorobenzene	ND	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Chloroethane	ND	0.053	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Chloroform	ND	0.11	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Chloromethane	ND	0.029	0.96		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
2-Chlorotoluene	ND	0.028	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
4-Chlorotoluene	ND	0.092	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
cis-1,2-DCE	ND	0.029	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
cis-1,3-Dichloropropene	ND	0.040	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2-Dibromo-3-chloropropane	ND	0.043	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Dibromochloromethane	ND	0.031	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Dibromomethane	ND	0.037	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2-Dichlorobenzene	ND	0.038	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,3-Dichlorobenzene	ND	0.038	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,4-Dichlorobenzene	ND	0.038	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Dichlorodifluoromethane	ND	0.077	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1-Dichloroethane	ND	0.022	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1-Dichloroethene	ND	0.025	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0041
Project: Kirtland AFB
Collection Date: 7/31/2014 10:50:00 AM
Lab ID: 1407F02-001
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
1,2-Dichloropropane	ND	0.028	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,3-Dichloropropane	ND	0.060	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
2,2-Dichloropropane	ND	0.034	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1-Dichloropropene	ND	0.049	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Hexachlorobutadiene	ND	0.047	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
2-Hexanone	ND	0.15	3.2		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Isopropylbenzene	2.5	0.025	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
4-Isopropyltoluene	3.8	0.029	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
4-Methyl-2-pentanone	ND	0.12	3.2		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Methylene chloride	0.088	0.030	0.96	J	mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
n-Butylbenzene	15	0.028	0.96		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
n-Propylbenzene	6.4	0.032	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
sec-Butylbenzene	5.2	0.031	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Styrene	ND	0.025	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
tert-Butylbenzene	ND	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1,1,2-Tetrachloroethane	ND	0.038	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1,2,2-Tetrachloroethane	ND	0.053	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Tetrachloroethene (PCE)	ND	0.039	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
trans-1,2-DCE	ND	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
trans-1,3-Dichloropropene	ND	0.044	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2,3-Trichlorobenzene	ND	0.036	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2,4-Trichlorobenzene	ND	0.035	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1,1-Trichloroethane	ND	0.032	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,1,2-Trichloroethane	ND	0.039	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Trichloroethene (TCE)	ND	0.044	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Trichlorofluoromethane	ND	0.033	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
1,2,3-Trichloropropane	ND	0.048	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Vinyl chloride	ND	0.026	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Xylenes, Total	15	0.094	0.64		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Bromochloromethane	ND	0.15	0.32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Vinyl acetate	ND	3.2	3.2		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Surr: Dibromofluoromethane	88.9	0	70-130		%REC	10	8/4/2014 12:53:20 PM	R20359
Surr: 1,2-Dichloroethane-d4	90.5	0	70-130		%REC	10	8/4/2014 12:53:20 PM	R20359
Surr: Toluene-d8	90.5	0	70-130		%REC	10	8/4/2014 12:53:20 PM	R20359
Surr: 4-Bromofluorobenzene	165	0	70-130	S	%REC	10	8/4/2014 12:53:20 PM	R20359
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	710	4.1	32		mg/Kg-dr	10	8/4/2014 12:53:20 PM	R20359
Surr: BFB	130	0	61.2-137		%REC	10	8/4/2014 12:53:20 PM	R20359

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407F02-002
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Toluene	ND	0.0055	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Naphthalene	0.011	0.0042	0.10	J	mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Acetone	ND	0.049	0.75		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
2-Butanone	ND	0.023	0.50		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Chloroform	ND	0.017	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407F02-002
Matrix: MEOH (SOIL)
Received Date: 7/31/2014 5:07:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Methylene chloride	ND	0.0047	0.15		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
n-Butylbenzene	0.0096	0.0044	0.15	J	mg/Kg	1	8/4/2014 1:49:37 PM	R20359
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Styrene	ND	0.0039	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Surr: Dibromofluoromethane	88.8	0	70-130		%REC	1	8/4/2014 1:49:37 PM	R20359
Surr: 1,2-Dichloroethane-d4	85.2	0	70-130		%REC	1	8/4/2014 1:49:37 PM	R20359
Surr: Toluene-d8	88.6	0	70-130		%REC	1	8/4/2014 1:49:37 PM	R20359
Surr: 4-Bromofluorobenzene	85.8	0	70-130		%REC	1	8/4/2014 1:49:37 PM	R20359
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/4/2014 1:49:37 PM	R20359
Surr: BFB	113	0	61.2-137		%REC	1	8/4/2014 1:49:37 PM	R20359

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14544**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**14544**		RunNo:	**20301**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/1/2014**		SeqNo:	**590108**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.4	57.9	140			

Sample ID	**LCS-14544**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**14544**		RunNo:	**20301**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/1/2014**		SeqNo:	**590111**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.0	68.6	130			
Surr: DNOP	4.6		5.000		91.3	57.9	140			

Sample ID	**MB-14576**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**14576**		RunNo:	**20331**				
Prep Date:	**8/4/2014**	Analysis Date:	**8/4/2014**		SeqNo:	**591196**	Units:	**%REC**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	57.9	140			

Sample ID	**LCS-14576**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**14576**		RunNo:	**20331**				
Prep Date:	**8/4/2014**	Analysis Date:	**8/4/2014**		SeqNo:	**591197**	Units:	**%REC**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.4	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14556MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20359**	RunNo: **20359**
Prep Date: **8/1/2014**	Analysis Date: **8/4/2014**	SeqNo: **592071** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	0.0084	0.050								J
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	0.0094	0.10								J
Acetone	0.083	0.75								J
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.12	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	0.0088	0.050								J
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14556MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20359**	RunNo: **20359**
Prep Date: **8/1/2014**	Analysis Date: **8/4/2014**	SeqNo: **592071** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	0.026	0.50								J
Methylene chloride	0.015	0.15								J
n-Butylbenzene	0.0083	0.15								J
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	0.0081	0.050								J
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.45		0.5000		89.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.5	70	130			
Surr: Toluene-d8	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.7	70	130			

Sample ID **LCS-14556MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20359**	RunNo: **20359**
Prep Date: **8/1/2014**	Analysis Date: **8/4/2014**	SeqNo: **592072** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.050	1.000	0	89.3	70	130			
Toluene	0.95	0.050	1.000	0	94.8	60.1	120			
Chlorobenzene	0.90	0.050	1.000	0	90.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-14556MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20359**	RunNo: **20359**
Prep Date: **8/1/2014**	Analysis Date: **8/4/2014**	SeqNo: **592072** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.92	0.050	1.000	0	91.8	78.2	162			
Trichloroethene (TCE)	0.85	0.050	1.000	0	85.1	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		84.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.6	70	130			
Surr: Toluene-d8	0.46		0.5000		91.4	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14582**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14582**	RunNo: **20376**
Prep Date: **8/4/2014**	Analysis Date: **8/5/2014**	SeqNo: **592601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.091	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14582**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14582**	RunNo: **20376**
Prep Date: **8/4/2014**	Analysis Date: **8/5/2014**	SeqNo: **592601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.2		3.330		66.5	21	111			
Surr: Phenol-d5	2.4		3.330		73.4	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		71.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		78.3	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		75.7	21.2	129			
Surr: 4-Terphenyl-d14	1.3		1.670		78.3	39.4	107			

Sample ID **lcs-14582**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14582**	RunNo: **20376**
Prep Date: **8/4/2014**	Analysis Date: **8/5/2014**	SeqNo: **592602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14582**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14582**	RunNo: **20376**
Prep Date: **8/4/2014**	Analysis Date: **8/5/2014**	SeqNo: **592602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	88.2	50.7	110			
4-Chloro-3-methylphenol	3.0	0.50	3.330	0	89.6	47.8	107			
2-Chlorophenol	2.8	0.20	3.330	0	82.7	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	76.6	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	71.0	44.9	114			
N-Nitrosodi-n-propylamine	1.3	0.20	1.670	0	75.6	38.7	128			
4-Nitrophenol	2.8	0.25	3.330	0	83.7	40.2	103			
Pentachlorophenol	2.3	0.40	3.330	0	70.3	32.9	94			
Phenol	3.0	0.20	3.330	0	89.6	44.1	109			
Pyrene	1.5	0.20	1.670	0	87.9	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	77.5	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		79.6	21	111			
Surr: Phenol-d5	2.8		3.330		83.5	23.1	117			
Surr: 2,4,6-Tribromophenol	2.8		3.330		84.7	22.7	88.9			
Surr: Nitrobenzene-d5	1.5		1.670		88.7	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		91.1	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		96.4	39.4	107			

Sample ID **lcsd-14582**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **14582**	RunNo: **20376**
Prep Date: **8/4/2014**	Analysis Date: **8/5/2014**	SeqNo: **592606** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.20	1.670	0	83.2	50.7	110	5.85	20	
4-Chloro-3-methylphenol	3.2	0.50	3.330	0	95.1	47.8	107	5.98	20	
2-Chlorophenol	2.8	0.20	3.330	0	85.1	45.7	108	2.90	20	
1,4-Dichlorobenzene	1.2	0.20	1.670	0	74.4	46.1	112	3.04	20	
2,4-Dinitrotoluene	1.3	0.50	1.670	0	78.3	44.9	114	9.81	20	
N-Nitrosodi-n-propylamine	1.2	0.20	1.670	0	74.8	38.7	128	1.14	20	
4-Nitrophenol	3.2	0.25	3.330	0	95.5	40.2	103	13.2	20	
Pentachlorophenol	2.5	0.40	3.330	0	75.9	32.9	94	7.75	20	
Phenol	3.0	0.20	3.330	0	88.6	44.1	109	1.07	20	
Pyrene	1.5	0.20	1.670	0	88.8	51.9	109	1.04	20	
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	76.3	49.5	115	1.51	20	
Surr: 2-Fluorophenol	2.7		3.330		80.2	21	111	0	0	
Surr: Phenol-d5	2.9		3.330		87.6	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	3.0		3.330		90.7	22.7	88.9	0	0	S
Surr: Nitrobenzene-d5	1.5		1.670		91.1	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.5		1.670		90.1	21.2	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcsd-14582**	SampType:	**LCSD**		TestCode:	**EPA Method 8270C: Semivolatiles**					
Client ID:	**LCSS02**	Batch ID:	**14582**		RunNo:	**20376**					
Prep Date:	**8/4/2014**	Analysis Date:	**8/5/2014**		SeqNo:	**592606**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		1.5		1.670		88.4	39.4	107	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407F02**

08-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**LCS-14564**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14564**		RunNo:	**20369**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/5/2014**		SeqNo:	**592346**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	97.6	80	120			

Sample ID	**MB-14564**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14564**		RunNo:	**20369**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/5/2014**		SeqNo:	**592347**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**1407F02-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0041**	Batch ID:	**14564**		RunNo:	**20369**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/5/2014**		SeqNo:	**592351**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.27	27.12	2.999	70.1	75	125			S

Sample ID	**1407F02-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0041**	Batch ID:	**14564**		RunNo:	**20369**				
Prep Date:	**8/1/2014**	Analysis Date:	**8/5/2014**		SeqNo:	**592352**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.28	27.86	2.999	69.4	75	125	1.50	20	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407F02 RcptNo: 1

Received by/date: _____

Logged By: **Ashley Gallegos** 7/31/2014 5:07:00 PM

Completed By: **Ashley Gallegos** 7/31/2014 5:08:44 PM

Reviewed By: _____ 07/31/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.7	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 31 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/31/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 07/31/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 19.7°C	Date: 07/31/14 Time: 1707
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID in FFOR-CF-0041is 1,121 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0041	FFOR-EXC-38-DS-FFOR-CF-0041-REG	31 JUL 2014	10:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1467F02
FFOR-CF-0041	FFOR-EXC-38-DS-FFOR-CF-0041-REG	31 JUL 2014	10:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 09, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408A76

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/20/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408A76**
Date: **9/9/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile. Acetone results for samples FFOR-CF-0050 and MEOH BLANK should be considered estimated because the ICV for acetone, was elevated.

Surrogate recoveries for EPA Method 8260, 8270, and 8015 were poor or not recoverable due to sample matrix and sample dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0048
Project: Kirtland AFB
Collection Date: 8/20/2014 3:20:00 PM
Lab ID: 1408A76-001
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	1200	59	110		mg/Kg-dr	10	8/25/2014 11:58:57 AM	14887
Motor Oil Range Organics (MRO)	ND	530	530		mg/Kg-dr	10	8/25/2014 11:58:57 AM	14887
Surr: DNOP	0	0	57.9-140	S	%REC	10	8/25/2014 11:58:57 AM	14887
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	4.9	1.0	1.0		wt%	1	8/21/2014 8:35:00 AM	R20734
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	17	0.23	0.54		mg/Kg-dr	2	8/25/2014 1:57:21 PM	14919
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.050	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Acenaphthylene	ND	0.051	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Aniline	ND	0.062	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Anthracene	ND	0.045	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Benz(a)anthracene	0.20	0.057	0.21	J	mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Benzo(a)pyrene	0.16	0.063	0.21	J	mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Benzo(b)fluoranthene	0.39	0.072	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Benzo(g,h,i)perylene	0.12	0.063	0.21	J	mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Benzo(k)fluoranthene	ND	0.079	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Bis(2-chloroethoxy)methane	ND	0.070	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Bis(2-chloroethyl)ether	ND	0.084	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Bis(2-ethylhexyl)phthalate	ND	0.070	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Butyl benzyl phthalate	ND	0.044	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Chloro-3-methylphenol	ND	0.055	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Chloroaniline	ND	0.055	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Chloronaphthalene	ND	0.060	0.26		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Chlorophenol	ND	0.065	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Chlorophenyl phenyl ether	ND	0.059	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Chrysene	0.23	0.053	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Di-n-butyl phthalate	ND	0.047	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Di-n-octyl phthalate	ND	0.26	0.42		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Dibenz(a,h)anthracene	ND	0.062	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Dibenzofuran	0.13	0.070	0.21	J	mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
1,3-Dichlorobenzene	ND	0.059	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
1,4-Dichlorobenzene	ND	0.065	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
3,3´-Dichlorobenzidine	ND	0.058	0.26		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0048
Project: Kirtland AFB
Collection Date: 8/20/2014 3:20:00 PM
Lab ID: 1408A76-001
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Dimethyl phthalate	ND	0.058	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4-Dichlorophenol	ND	0.064	0.42		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4-Dimethylphenol	ND	0.062	0.31		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4,6-Dinitro-2-methylphenol	ND	0.043	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4-Dinitrophenol	ND	0.074	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4-Dinitrotoluene	ND	0.077	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,6-Dinitrotoluene	ND	0.062	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Fluoranthene	0.23	0.047	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Fluorene	ND	0.061	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Hexachlorobenzene	ND	0.057	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Hexachlorobutadiene	ND	0.050	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Hexachloroethane	ND	0.073	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Indeno(1,2,3-cd)pyrene	0.13	0.069	0.21	J	mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Isophorone	ND	0.069	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Methylnaphthalene	ND	0.062	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Methylphenol	ND	0.060	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
3+4-Methylphenol	ND	0.070	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
N-Nitrosodi-n-propylamine	ND	0.069	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
N-Nitrosodimethylamine	ND	0.079	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
N-Nitrosodiphenylamine	ND	0.061	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Naphthalene	0.61	0.050	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Nitroaniline	ND	0.050	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
3-Nitroaniline	ND	0.061	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Nitroaniline	ND	0.050	0.42		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Nitrobenzene	ND	0.058	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2-Nitrophenol	ND	0.057	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
4-Nitrophenol	ND	0.064	0.26		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Pentachlorophenol	ND	0.085	0.42		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Phenol	ND	0.061	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Pyrene	0.35	0.057	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Pyridine	ND	0.058	0.52		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
1,2,4-Trichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4,5-Trichlorophenol	ND	0.046	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
2,4,6-Trichlorophenol	ND	0.057	0.21		mg/Kg-dr	1	8/22/2014 1:15:16 PM	14890
Surr: 2-Fluorophenol	60.0		21-111		%REC	1	8/22/2014 1:15:16 PM	14890
Surr: Phenol-d5	70.8		23.1-117		%REC	1	8/22/2014 1:15:16 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0048
Project: Kirtland AFB
Collection Date: 8/20/2014 3:20:00 PM
Lab ID: 1408A76-001
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	83.5		22.7-88.9		%REC	1	8/22/2014 1:15:16 PM	14890
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	8/22/2014 1:15:16 PM	14890
Surr: 2-Fluorobiphenyl	74.8		21.2-129		%REC	1	8/22/2014 1:15:16 PM	14890
Surr: 4-Terphenyl-d14	76.7		39.4-107		%REC	1	8/22/2014 1:15:16 PM	14890
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.037	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Toluene	ND	0.038	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Ethylbenzene	ND	0.036	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Methyl tert-butyl ether (MTBE)	ND	0.13	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2,4-Trimethylbenzene	0.19	0.041	0.34	J	mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,3,5-Trimethylbenzene	ND	0.036	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2-Dichloroethane (EDC)	ND	0.056	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2-Dibromoethane (EDB)	ND	0.039	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Naphthalene	1.1	0.028	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Acetone	ND	0.33	5.1		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Bromobenzene	ND	0.053	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Bromodichloromethane	ND	0.044	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Bromoform	ND	0.032	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Bromomethane	ND	0.049	1.0		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
2-Butanone	ND	0.16	3.4		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Carbon disulfide	ND	0.090	3.4		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Carbon tetrachloride	ND	0.048	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Chlorobenzene	ND	0.037	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Chloroethane	ND	0.057	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Chloroform	ND	0.12	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Chloromethane	ND	0.031	1.0		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
2-Chlorotoluene	ND	0.030	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
4-Chlorotoluene	ND	0.099	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
cis-1,2-DCE	ND	0.031	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
cis-1,3-Dichloropropene	ND	0.042	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2-Dibromo-3-chloropropane	ND	0.047	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Dibromochloromethane	ND	0.033	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Dibromomethane	ND	0.039	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2-Dichlorobenzene	ND	0.040	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,3-Dichlorobenzene	ND	0.041	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,4-Dichlorobenzene	ND	0.041	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Dichlorodifluoromethane	ND	0.083	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1-Dichloroethane	ND	0.023	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1-Dichloroethene	ND	0.027	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0048
Project: Kirtland AFB
Collection Date: 8/20/2014 3:20:00 PM
Lab ID: 1408A76-001
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.030	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,3-Dichloropropane	ND	0.064	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
2,2-Dichloropropane	ND	0.037	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1-Dichloropropene	ND	0.053	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Hexachlorobutadiene	ND	0.050	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
2-Hexanone	ND	0.16	3.4		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Isopropylbenzene	ND	0.027	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
4-Isopropyltoluene	ND	0.031	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
4-Methyl-2-pentanone	ND	0.13	3.4		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Methylene chloride	0.13	0.032	1.0	J	mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
n-Butylbenzene	0.39	0.030	1.0	J	mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
n-Propylbenzene	ND	0.034	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
sec-Butylbenzene	ND	0.033	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Styrene	ND	0.027	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
tert-Butylbenzene	ND	0.038	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1,1,2-Tetrachloroethane	ND	0.041	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1,2,2-Tetrachloroethane	ND	0.057	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Tetrachloroethene (PCE)	ND	0.042	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
trans-1,2-DCE	ND	0.038	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
trans-1,3-Dichloropropene	ND	0.047	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2,3-Trichlorobenzene	ND	0.038	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2,4-Trichlorobenzene	ND	0.038	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1,1-Trichloroethane	ND	0.034	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,1,2-Trichloroethane	ND	0.041	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Trichloroethene (TCE)	ND	0.047	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Trichlorofluoromethane	ND	0.036	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
1,2,3-Trichloropropane	ND	0.052	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Vinyl chloride	ND	0.028	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Xylenes, Total	ND	0.10	0.68		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Bromochloromethane	ND	0.16	0.34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Vinyl acetate	ND	3.4	3.4		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Surr: Dibromofluoromethane	87.6	0	70-130		%REC	10	8/21/2014 1:23:32 PM	R20743
Surr: 1,2-Dichloroethane-d4	92.7	0	70-130		%REC	10	8/21/2014 1:23:32 PM	R20743
Surr: Toluene-d8	93.9	0	70-130		%REC	10	8/21/2014 1:23:32 PM	R20743
Surr: 4-Bromofluorobenzene	147	0	70-130	S	%REC	10	8/21/2014 1:23:32 PM	R20743
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	280	4.4	34		mg/Kg-dr	10	8/21/2014 1:23:32 PM	R20743
Surr: BFB	134	0	61.2-137		%REC	10	8/21/2014 1:23:32 PM	R20743

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0049
Project: Kirtland AFB
Collection Date: 8/20/2014 3:31:00 PM
Lab ID: 1408A76-002
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	9700	59	110		mg/Kg-dr	10	8/25/2014 2:37:46 PM	14887
Motor Oil Range Organics (MRO)	ND	530	530		mg/Kg-dr	10	8/25/2014 2:37:46 PM	14887
Surr: DNOP	0	0	57.9-140	S	%REC	10	8/25/2014 2:37:46 PM	14887
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.1	1.0	1.0		wt%	1	8/21/2014 8:35:00 AM	R20734
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	71	0.23	0.54		mg/Kg-dr	2	8/25/2014 1:58:34 PM	14919
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.52	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Acenaphthylene	ND	0.53	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Aniline	ND	0.64	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Anthracene	ND	0.47	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Benz(a)anthracene	ND	0.59	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Benzo(a)pyrene	ND	0.65	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Benzo(b)fluoranthene	ND	0.74	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Benzo(g,h,i)perylene	ND	0.66	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Benzo(k)fluoranthene	ND	0.82	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Bis(2-chloroethoxy)methane	ND	0.73	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Bis(2-chloroethyl)ether	ND	0.87	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Bis(2-chloroisopropyl)ether	ND	0.40	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Bis(2-ethylhexyl)phthalate	ND	0.73	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Bromophenyl phenyl ether	ND	0.54	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Butyl benzyl phthalate	ND	0.46	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Carbazole	ND	0.49	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Chloro-3-methylphenol	ND	0.57	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Chloroaniline	ND	0.57	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Chloronaphthalene	ND	0.62	2.7		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Chlorophenol	ND	0.67	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Chlorophenyl phenyl ether	ND	0.61	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Chrysene	ND	0.55	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Di-n-butyl phthalate	ND	0.49	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Di-n-octyl phthalate	ND	2.7	4.3		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Dibenz(a,h)anthracene	ND	0.64	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Dibenzofuran	ND	0.72	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
1,2-Dichlorobenzene	ND	0.42	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
1,3-Dichlorobenzene	ND	0.61	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
1,4-Dichlorobenzene	ND	0.67	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
3,3´-Dichlorobenzidine	ND	0.60	2.7		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0049
Project: Kirtland AFB
Collection Date: 8/20/2014 3:31:00 PM
Lab ID: 1408A76-002
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.49	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Dimethyl phthalate	ND	0.60	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4-Dichlorophenol	ND	0.67	4.3		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4-Dimethylphenol	ND	0.64	3.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4,6-Dinitro-2-methylphenol	ND	0.44	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4-Dinitrophenol	ND	0.76	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4-Dinitrotoluene	ND	0.80	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,6-Dinitrotoluene	ND	0.64	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Fluoranthene	ND	0.48	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Fluorene	ND	0.63	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Hexachlorobenzene	ND	0.59	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Hexachlorobutadiene	ND	0.52	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Hexachlorocyclopentadiene	ND	0.70	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Hexachloroethane	ND	0.76	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Indeno(1,2,3-cd)pyrene	ND	0.72	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Isophorone	ND	0.71	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Methylnaphthalene	16	0.64	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Methylphenol	ND	0.62	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
3+4-Methylphenol	ND	0.73	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
N-Nitrosodi-n-propylamine	ND	0.72	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
N-Nitrosodimethylamine	ND	0.82	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
N-Nitrosodiphenylamine	ND	0.63	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Naphthalene	8.9	0.51	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Nitroaniline	ND	0.52	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
3-Nitroaniline	ND	0.63	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Nitroaniline	ND	0.52	4.3		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Nitrobenzene	ND	0.60	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2-Nitrophenol	ND	0.59	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
4-Nitrophenol	ND	0.67	2.7		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Pentachlorophenol	ND	0.88	4.3		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Phenanthrene	ND	0.39	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Phenol	ND	0.63	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Pyrene	ND	0.59	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Pyridine	ND	0.60	5.4		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
1,2,4-Trichlorobenzene	ND	0.62	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4,5-Trichlorophenol	ND	0.48	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
2,4,6-Trichlorophenol	ND	0.59	2.2		mg/Kg-dr	10	8/22/2014 3:38:32 PM	14890
Surr: 2-Fluorophenol	0		21-111	S	%REC	10	8/22/2014 3:38:32 PM	14890
Surr: Phenol-d5	0		23.1-117	S	%REC	10	8/22/2014 3:38:32 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0049
Project: Kirtland AFB
Collection Date: 8/20/2014 3:31:00 PM
Lab ID: 1408A76-002
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	10	8/22/2014 3:38:32 PM	14890
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	10	8/22/2014 3:38:32 PM	14890
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	10	8/22/2014 3:38:32 PM	14890
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	10	8/22/2014 3:38:32 PM	14890
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.020	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Toluene	ND	0.020	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Ethylbenzene	ND	0.019	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Methyl tert-butyl ether (MTBE)	ND	0.067	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2,4-Trimethylbenzene	2.8	0.087	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,3,5-Trimethylbenzene	6.2	0.076	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,2-Dichloroethane (EDC)	ND	0.030	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2-Dibromoethane (EDB)	ND	0.020	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Naphthalene	16	0.060	1.4		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Acetone	ND	0.18	2.7		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Bromobenzene	ND	0.11	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Bromodichloromethane	ND	0.023	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Bromoform	ND	0.067	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Bromomethane	ND	0.026	0.54		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
2-Butanone	ND	0.082	1.8		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Carbon disulfide	ND	0.047	1.8		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Carbon tetrachloride	ND	0.025	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Chlorobenzene	ND	0.020	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Chloroethane	ND	0.030	0.36		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Chloroform	ND	0.062	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Chloromethane	ND	0.016	0.54		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
2-Chlorotoluene	ND	0.063	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
4-Chlorotoluene	ND	0.21	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
cis-1,2-DCE	ND	0.016	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
cis-1,3-Dichloropropene	ND	0.022	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2-Dibromo-3-chloropropane	ND	0.098	1.4		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Dibromochloromethane	ND	0.018	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Dibromomethane	ND	0.021	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2-Dichlorobenzene	ND	0.085	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,3-Dichlorobenzene	ND	0.086	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,4-Dichlorobenzene	ND	0.085	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Dichlorodifluoromethane	ND	0.043	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,1-Dichloroethane	ND	0.012	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,1-Dichloroethene	ND	0.014	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0049
Project: Kirtland AFB
Collection Date: 8/20/2014 3:31:00 PM
Lab ID: 1408A76-002
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.016	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,3-Dichloropropane	ND	0.034	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
2,2-Dichloropropane	ND	0.019	0.36		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,1-Dichloropropene	ND	0.028	0.36		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Hexachlorobutadiene	ND	0.11	1.4		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
2-Hexanone	ND	0.086	1.8		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Isopropylbenzene	ND	0.057	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
4-Isopropyltoluene	2.9	0.065	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
4-Methyl-2-pentanone	ND	0.070	1.8		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Methylene chloride	0.082	0.017	0.54	J	mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
n-Butylbenzene	ND	0.063	2.2		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
n-Propylbenzene	ND	0.072	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
sec-Butylbenzene	ND	0.070	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Styrene	ND	0.014	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
tert-Butylbenzene	ND	0.079	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,1,1,2-Tetrachloroethane	ND	0.022	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,1,2,2-Tetrachloroethane	ND	0.12	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Tetrachloroethene (PCE)	ND	0.022	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
trans-1,2-DCE	ND	0.020	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
trans-1,3-Dichloropropene	ND	0.025	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2,3-Trichlorobenzene	ND	0.080	1.4		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,2,4-Trichlorobenzene	ND	0.079	0.72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
1,1,1-Trichloroethane	ND	0.018	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,1,2-Trichloroethane	ND	0.022	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Trichloroethene (TCE)	ND	0.025	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Trichlorofluoromethane	ND	0.019	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
1,2,3-Trichloropropane	ND	0.11	1.4		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Vinyl chloride	ND	0.015	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Xylenes, Total	1.0	0.053	0.36		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Bromochloromethane	ND	0.082	0.18		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Vinyl acetate	ND	1.8	1.8		mg/Kg-dr	5	8/21/2014 1:51:34 PM	R20743
Surr: Dibromofluoromethane	84.5	0	70-130		%REC	5	8/21/2014 1:51:34 PM	R20743
Surr: 1,2-Dichloroethane-d4	90.4	0	70-130		%REC	5	8/21/2014 1:51:34 PM	R20743
Surr: Toluene-d8	92.8	0	70-130		%REC	5	8/21/2014 1:51:34 PM	R20743
Surr: 4-Bromofluorobenzene	160	0	70-130	S	%REC	20	8/22/2014 2:37:08 PM	R20775
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	1300	9.3	72		mg/Kg-dr	20	8/22/2014 2:37:08 PM	R20775
Surr: BFB	146	0	61.2-137	S	%REC	20	8/22/2014 2:37:08 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0050
Project: Kirtland AFB
Collection Date: 8/20/2014 3:40:00 PM
Lab ID: 1408A76-003
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	4500	57	100		mg/Kg-dr	10	8/25/2014 4:35:28 PM	14887
Motor Oil Range Organics (MRO)	ND	510	510		mg/Kg-dr	10	8/25/2014 4:35:28 PM	14887
Surr: DNOP	0	0	57.9-140	S	%REC	10	8/25/2014 4:35:28 PM	14887
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	3.5	1.0	1.0		wt%	1	8/21/2014 8:35:00 AM	R20734
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	59	0.22	0.51		mg/Kg-dr	2	8/25/2014 1:59:47 PM	14919
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.50	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Acenaphthylene	ND	0.51	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Aniline	ND	0.61	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Anthracene	ND	0.45	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Benz(a)anthracene	ND	0.56	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Benzo(a)pyrene	ND	0.62	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Benzo(b)fluoranthene	ND	0.71	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Benzo(g,h,i)perylene	ND	0.63	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Benzo(k)fluoranthene	ND	0.79	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Bis(2-chloroethoxy)methane	ND	0.70	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Bis(2-chloroethyl)ether	ND	0.83	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Bis(2-chloroisopropyl)ether	ND	0.39	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Bis(2-ethylhexyl)phthalate	ND	0.70	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Bromophenyl phenyl ether	ND	0.52	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Butyl benzyl phthalate	ND	0.44	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Carbazole	ND	0.47	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Chloro-3-methylphenol	ND	0.55	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Chloroaniline	ND	0.55	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Chloronaphthalene	ND	0.59	2.6		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Chlorophenol	ND	0.65	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Chlorophenyl phenyl ether	ND	0.59	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Chrysene	ND	0.53	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Di-n-butyl phthalate	ND	0.47	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Di-n-octyl phthalate	ND	2.6	4.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Dibenz(a,h)anthracene	ND	0.62	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Dibenzofuran	ND	0.70	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
1,2-Dichlorobenzene	ND	0.40	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
1,3-Dichlorobenzene	ND	0.59	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
1,4-Dichlorobenzene	ND	0.64	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
3,3´-Dichlorobenzidine	ND	0.57	2.6		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0050
Project: Kirtland AFB
Collection Date: 8/20/2014 3:40:00 PM
Lab ID: 1408A76-003
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.47	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Dimethyl phthalate	ND	0.58	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4-Dichlorophenol	ND	0.64	4.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4-Dimethylphenol	ND	0.62	3.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4,6-Dinitro-2-methylphenol	ND	0.42	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4-Dinitrophenol	ND	0.73	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4-Dinitrotoluene	ND	0.76	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,6-Dinitrotoluene	ND	0.62	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Fluoranthene	ND	0.46	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Fluorene	ND	0.61	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Hexachlorobenzene	ND	0.57	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Hexachlorobutadiene	ND	0.50	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Hexachlorocyclopentadiene	ND	0.67	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Hexachloroethane	ND	0.73	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Indeno(1,2,3-cd)pyrene	ND	0.69	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Isophorone	ND	0.68	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Methylnaphthalene	14	0.62	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Methylphenol	ND	0.59	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
3+4-Methylphenol	ND	0.70	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
N-Nitrosodi-n-propylamine	ND	0.69	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
N-Nitrosodimethylamine	ND	0.78	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
N-Nitrosodiphenylamine	ND	0.61	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Naphthalene	7.8	0.49	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Nitroaniline	ND	0.50	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
3-Nitroaniline	ND	0.60	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Nitroaniline	ND	0.50	4.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Nitrobenzene	ND	0.58	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2-Nitrophenol	ND	0.57	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
4-Nitrophenol	ND	0.64	2.6		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Pentachlorophenol	ND	0.84	4.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Phenanthrene	ND	0.38	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Phenol	ND	0.61	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Pyrene	ND	0.56	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Pyridine	ND	0.57	5.2		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
1,2,4-Trichlorobenzene	ND	0.60	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4,5-Trichlorophenol	ND	0.46	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
2,4,6-Trichlorophenol	ND	0.57	2.1		mg/Kg-dr	10	8/22/2014 4:07:26 PM	14890
Surr: 2-Fluorophenol	0		21-111	S	%REC	10	8/22/2014 4:07:26 PM	14890
Surr: Phenol-d5	0		23.1-117	S	%REC	10	8/22/2014 4:07:26 PM	14890

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0050
Project: Kirtland AFB
Collection Date: 8/20/2014 3:40:00 PM
Lab ID: 1408A76-003
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	10	8/22/2014 4:07:26 PM	14890
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	10	8/22/2014 4:07:26 PM	14890
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	10	8/22/2014 4:07:26 PM	14890
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	10	8/22/2014 4:07:26 PM	14890
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.073	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Toluene	ND	0.073	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Ethylbenzene	0.47	0.071	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Methyl tert-butyl ether (MTBE)	ND	0.25	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2,4-Trimethylbenzene	20	0.080	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,3,5-Trimethylbenzene	6.6	0.070	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2-Dichloroethane (EDC)	ND	0.11	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2-Dibromoethane (EDB)	ND	0.076	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Naphthalene	15	0.055	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Acetone	3.0	0.65	5.0	J	mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Bromobenzene	ND	0.10	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Bromodichloromethane	ND	0.085	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Bromoform	ND	0.062	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Bromomethane	ND	0.095	0.99		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
2-Butanone	1.3	0.30	3.3	J	mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Carbon disulfide	ND	0.18	3.3		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Carbon tetrachloride	ND	0.093	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Chlorobenzene	ND	0.073	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Chloroethane	ND	0.11	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Chloroform	ND	0.23	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Chloromethane	ND	0.061	0.99		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
2-Chlorotoluene	ND	0.059	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
4-Chlorotoluene	ND	0.19	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
cis-1,2-DCE	ND	0.061	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
cis-1,3-Dichloropropene	ND	0.082	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2-Dibromo-3-chloropropane	ND	0.090	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Dibromochloromethane	ND	0.065	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Dibromomethane	ND	0.076	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2-Dichlorobenzene	ND	0.078	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,3-Dichlorobenzene	ND	0.080	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,4-Dichlorobenzene	ND	0.079	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Dichlorodifluoromethane	ND	0.16	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1-Dichloroethane	ND	0.045	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1-Dichloroethene	ND	0.053	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0050
Project: Kirtland AFB
Collection Date: 8/20/2014 3:40:00 PM
Lab ID: 1408A76-003
Matrix: MEOH (SOIL)
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.059	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,3-Dichloropropane	ND	0.12	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
2,2-Dichloropropane	ND	0.072	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1-Dichloropropene	ND	0.10	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Hexachlorobutadiene	ND	0.097	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
2-Hexanone	ND	0.32	3.3		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Isopropylbenzene	ND	0.053	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
4-Isopropyltoluene	5.2	0.060	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
4-Methyl-2-pentanone	ND	0.26	3.3		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Methylene chloride	ND	0.062	0.99		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
n-Butylbenzene	12	0.058	0.99		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
n-Propylbenzene	0.98	0.067	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
sec-Butylbenzene	2.3	0.064	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Styrene	ND	0.052	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
tert-Butylbenzene	0.089	0.073	0.33	J	mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1,1,2-Tetrachloroethane	ND	0.079	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1,2,2-Tetrachloroethane	ND	0.11	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Tetrachloroethene (PCE)	ND	0.081	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
trans-1,2-DCE	ND	0.074	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
trans-1,3-Dichloropropene	ND	0.091	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2,3-Trichlorobenzene	ND	0.074	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2,4-Trichlorobenzene	ND	0.073	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1,1-Trichloroethane	ND	0.067	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,1,2-Trichloroethane	ND	0.080	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Trichloroethene (TCE)	ND	0.092	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Trichlorofluoromethane	ND	0.069	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
1,2,3-Trichloropropane	ND	0.10	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Vinyl chloride	ND	0.055	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Xylenes, Total	3.8	0.20	0.66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Bromochloromethane	ND	0.30	0.33		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Vinyl acetate	ND	6.6	3.3		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Surr: Dibromofluoromethane	93.3	0	70-130		%REC	20	8/22/2014 3:32:56 PM	R20775
Surr: 1,2-Dichloroethane-d4	93.8	0	70-130		%REC	20	8/22/2014 3:32:56 PM	R20775
Surr: Toluene-d8	91.2	0	70-130		%REC	20	8/22/2014 3:32:56 PM	R20775
Surr: 4-Bromofluorobenzene	210	0	70-130	S	%REC	20	8/22/2014 3:32:56 PM	R20775
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	1800	8.6	66		mg/Kg-dr	20	8/22/2014 3:32:56 PM	R20775
Surr: BFB	169	0	61.2-137	S	%REC	20	8/22/2014 3:32:56 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408A76-004
Matrix: MEOH BLAN
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Toluene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Acetone	0.20	0.049	0.75	J	mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
2-Butanone	0.11	0.023	0.50	J	mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Chloroform	ND	0.017	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408A76-004
Matrix: MEOH BLAN
Received Date: 8/20/2014 4:55:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Methylene chloride	0.016	0.0047	0.15	J	mg/Kg	1	8/22/2014 1:13:10 PM	R20775
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Styrene	ND	0.0039	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Surr: Dibromofluoromethane	84.0	0	70-130		%REC	1	8/22/2014 1:13:10 PM	R20775
Surr: 1,2-Dichloroethane-d4	83.2	0	70-130		%REC	1	8/22/2014 1:13:10 PM	R20775
Surr: Toluene-d8	93.6	0	70-130		%REC	1	8/22/2014 1:13:10 PM	R20775
Surr: 4-Bromofluorobenzene	81.1	0	70-130		%REC	1	8/22/2014 1:13:10 PM	R20775
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/22/2014 1:13:10 PM	R20775
Surr: BFB	107	0	61.2-137		%REC	1	8/22/2014 1:13:10 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14887**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**14887**		RunNo:	**20738**				
Prep Date:	**8/21/2014**	Analysis Date:	**8/22/2014**		SeqNo:	**604466**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.9	57.9	140			

Sample ID	**LCS-14887**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**14887**		RunNo:	**20738**				
Prep Date:	**8/21/2014**	Analysis Date:	**8/22/2014**		SeqNo:	**604467**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	68.6	130			
Surr: DNOP	4.2		5.000		83.3	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.018	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.43		0.5000		85.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.1	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.7	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604232** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Chlorobenzene	0.94	0.050	1.000	0	94.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604232** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.1	0.050	1.000	0	113	60.5	160			
Trichloroethene (TCE)	1.0	0.050	1.000	0	105	58.8	139			
Surr: Dibromofluoromethane	0.44		0.5000		88.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		93.0	70	130			
Surr: Toluene-d8	0.47		0.5000		93.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.1	70	130			

Sample ID **1408a76-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0048**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604236** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	7.4	0.34	6.835	0	108	32.2	145			
Toluene	7.3	0.34	6.835	0	106	29.1	139			
Chlorobenzene	6.8	0.34	6.835	0	100	32.4	142			
1,1-Dichloroethene	7.9	0.34	6.835	0	115	32.6	155			
Trichloroethene (TCE)	7.2	0.34	6.835	0	106	29.2	150			
Surr: Dibromofluoromethane	3.1		3.417		90.4	70	130			
Surr: 1,2-Dichloroethane-d4	3.1		3.417		91.0	70	130			
Surr: Toluene-d8	3.2		3.417		94.2	70	130			
Surr: 4-Bromofluorobenzene	5.1		3.417		150	70	130			S

Sample ID **1408a76-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0048**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604237** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	7.0	0.34	6.835	0	103	32.2	145	4.74	20	
Toluene	7.4	0.34	6.835	0	108	29.1	139	1.65	20	
Chlorobenzene	6.9	0.34	6.835	0	100	32.4	142	0.247	20	
1,1-Dichloroethene	7.7	0.34	6.835	0	112	32.6	155	2.37	20	
Trichloroethene (TCE)	7.0	0.34	6.835	0	102	29.2	150	3.76	20	
Surr: Dibromofluoromethane	3.1		3.417		90.4	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	3.2		3.417		93.1	70	130	0	0	
Surr: Toluene-d8	3.2		3.417		95.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	4.6		3.417		134	70	130	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	0.10	0.75								EJ
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.16	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	0.026	0.50								J
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.056	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.1	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Chlorobenzene	0.96	0.050	1.000	0	96.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	124	60.5	160			
Trichloroethene (TCE)	1.1	0.050	1.000	0	114	58.8	139			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14890**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14890**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.4		3.330		73.3	21	111			
Surr: Phenol-d5	2.6		3.330		76.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.2		3.330		65.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		82.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.4		1.670		82.8	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		73.7	39.4	107			

Sample ID **lcs-14890**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14890**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.670	0	69.9	50.7	110			
4-Chloro-3-methylphenol	2.7	0.50	3.330	0	81.7	47.8	107			
2-Chlorophenol	2.5	0.20	3.330	0	76.1	45.7	108			
1,4-Dichlorobenzene	1.2	0.20	1.670	0	72.7	46.1	112			
2,4-Dinitrotoluene	1.1	0.50	1.670	0	62.9	44.9	114			
N-Nitrosodi-n-propylamine	1.2	0.20	1.670	0	70.5	38.7	128			
4-Nitrophenol	2.7	0.25	3.330	0	80.4	40.2	103			
Pentachlorophenol	1.8	0.40	3.330	0	54.0	32.9	94			
Phenol	2.6	0.20	3.330	0	76.8	44.1	109			
Pyrene	1.3	0.20	1.670	0	75.4	51.9	109			
1,2,4-Trichlorobenzene	1.2	0.20	1.670	0	71.9	49.5	115			
Surr: 2-Fluorophenol	2.3		3.330		68.3	21	111			
Surr: Phenol-d5	2.6		3.330		77.5	23.1	117			
Surr: 2,4,6-Tribromophenol	2.0		3.330		59.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		78.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.2		1.670		70.9	21.2	129			
Surr: 4-Terphenyl-d14	1.1		1.670		64.2	39.4	107			

Sample ID **1408a76-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0048**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604207** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.1	0.21	1.750	0	63.0	53.8	92.8			
4-Chloro-3-methylphenol	2.7	0.52	3.490	0	76.7	34.9	104			
2-Chlorophenol	2.1	0.21	3.490	0	59.7	18.2	105			
1,4-Dichlorobenzene	1.0	0.21	1.750	0	57.3	18.1	112			
2,4-Dinitrotoluene	0.96	0.52	1.750	0	55.0	22	144			
N-Nitrosodi-n-propylamine	ND	0.21	1.750	0	0	58.6	101			S
4-Nitrophenol	2.6	0.26	3.490	0	74.4	13.7	127			
Pentachlorophenol	2.4	0.42	3.490	0	69.7	16.5	107			
Phenol	2.1	0.21	3.490	0	59.7	12.5	114			
Pyrene	1.4	0.21	1.750	0.3533	61.5	14.2	116			
1,2,4-Trichlorobenzene	1.1	0.21	1.750	0	63.8	16	125			
Surr: 2-Fluorophenol	1.7		3.490		47.4	21	111			
Surr: Phenol-d5	2.1		3.490		60.1	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.490		69.1	22.7	88.9			
Surr: Nitrobenzene-d5	0		1.750		0	24.5	126			S
Surr: 2-Fluorobiphenyl	1.1		1.750		65.7	21.2	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1408a76-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0048**	Batch ID:	**14890**		RunNo:	**20759**				
Prep Date:	**8/21/2014**	Analysis Date:	**8/22/2014**		SeqNo:	**604207**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.2		1.750		66.3	39.4	107			

Sample ID	**1408a76-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0048**	Batch ID:	**14890**		RunNo:	**20759**				
Prep Date:	**8/21/2014**	Analysis Date:	**8/22/2014**		SeqNo:	**604208**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.21	1.757	0	76.1	53.8	92.8	19.1	22	
4-Chloro-3-methylphenol	3.0	0.53	3.503	0	85.8	34.9	104	11.6	27.3	
2-Chlorophenol	2.8	0.21	3.503	0	79.2	18.2	105	28.4	26.3	R
1,4-Dichlorobenzene	1.3	0.21	1.757	0	75.0	18.1	112	27.1	27.4	
2,4-Dinitrotoluene	1.2	0.53	1.757	0	70.5	22	144	25.0	27.4	
N-Nitrosodi-n-propylamine	ND	0.21	1.757	0	0	58.6	101	0	22.6	S
4-Nitrophenol	3.0	0.26	3.503	0	84.7	13.7	127	13.3	20	
Pentachlorophenol	2.8	0.42	3.503	0	78.7	16.5	107	12.5	27.1	
Phenol	2.7	0.21	3.503	0	76.9	12.5	114	25.5	32.2	
Pyrene	1.7	0.21	1.757	0.3533	77.5	14.2	116	18.1	29.5	
1,2,4-Trichlorobenzene	1.4	0.21	1.757	0	76.9	16	125	19.1	27.8	
Surr: 2-Fluorophenol	2.1		3.503		60.2	21	111	0	0	
Surr: Phenol-d5	2.5		3.503		72.0	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	3.0		3.503		86.6	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	0		1.757		0	24.5	126	0	0	S
Surr: 2-Fluorobiphenyl	1.3		1.757		73.3	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.3		1.757		71.9	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14919**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**14919**	RunNo:	**20773**					
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**	SeqNo:	**604529**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14919**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**14919**	RunNo:	**20773**					
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**	SeqNo:	**604530**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	97.2	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	460		500.0		92.1	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	80	120			
Surr: BFB	460		500.0		91.8	61.2	137			

Sample ID **1408A76-001A MS**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0048**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604215** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	440	34	170.9	281.0	93.0	58	134			
Surr: BFB	4700		3417		136	61.2	137			

Sample ID **1408A76-001A MSD**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0048**	Batch ID: **R20743**	RunNo: **20743**
Prep Date:	Analysis Date: **8/21/2014**	SeqNo: **604216** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	440	34	170.9	281.0	95.1	58	134	0.789	20	
Surr: BFB	4500		3417		132	61.2	137	0	0	

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604588** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	480		500.0		95.2	61.2	137			

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604589** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408A76**

09-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604589** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		95.0	61.2	137			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1408A76** RcptNo: 1

Received by/date: 08/20/14

Logged By: **Ashley Gallegos** 8/20/2014 4:55:00 PM

Completed By: **Ashley Gallegos** 8/20/2014 4:58:23 PM

Reviewed By: 08/20/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes	No	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No	Not Present
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes	No ✔	NA
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ✔	No	
7. Sufficient sample volume for indicated test(s)?	Yes ✔	No	
8. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No	
9. Was preservative added to bottles?	Yes	No ✔	NA
10. VOA vials have zero headspace?	Yes	No	No VOA Vials ✔
11. Were any sample containers received broken?	Yes	No ✔	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	Adjusted?
14. Is it clear what analyses were requested?	Yes ✔	No	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✔	No	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA ✔

Person Notified: Date:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	14.2	Good	Not Present			

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 20 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/20/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/20/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	14.2°C Date: 8/20/14 Time: 1755
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0048 = 979 ppm, FFOR-CF-0049 = 1,081 ppm, FFOR-CF-0050 = 1,341 ppm
8/20/14

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0048	FFOR-EXC-44-DS-FFOR-CF-0048-REG	20 AUG 2014	15:20	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		1408 A TO -001
FFOR-CF-0048	FFOR-EXC-44-DS-FFOR-CF-0048-REG	20 AUG 2014	15:20	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0049	FFOR-EXC-45-DS-FFOR-CF-0049-REG	20 AUG 2014	15:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0049	FFOR-EXC-45-DS-FFOR-CF-0049-REG	20 AUG 2014	15:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0050	FFOR-EXC-46-DS-FFOR-CF-0050-REG	20 AUG 2014	15:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					1408A76
FFOR-CF-0050	FFOR-EXC-46-DS-FFOR-CF-0050-REG	20 AUG 2014	15:40	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-005

Meoh Blank
AT 8/21/14

-004

Date 1 Relinquished By (Signature/Affiliation) Time

Date 2 Relinquished By (Signature/Affiliation)

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 08, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408B56

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408B56**
Date: **9/8/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile. Acetone results should be considered estimated because the ICV for acetone, was elevated.

Surrogate recoveries for EPA Method 8260, 8270, and 8015 were poor or not recoverable due to sample matrix and sample dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0051
Project: Kirtland AFB
Collection Date: 8/21/2014 3:21:00 PM
Lab ID: 1408B56-001
Matrix: MEOH (SOIL)
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	11000	63	110		mg/Kg-dr	10	8/25/2014 4:56:48 PM	14903
Motor Oil Range Organics (MRO)	ND	570	570		mg/Kg-dr	10	8/25/2014 4:56:48 PM	14903
Surr: DNOP	0	0	57.9-140	S	%REC	10	8/25/2014 4:56:48 PM	14903
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	8/22/2014 1:39:00 PM	R20770
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	3.1	0.13	0.29		mg/Kg-dr	1	8/25/2014 1:38:47 PM	14919
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.54	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Acenaphthylene	ND	0.55	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Aniline	ND	0.66	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Anthracene	ND	0.49	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Benz(a)anthracene	ND	0.61	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Benzo(a)pyrene	ND	0.68	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Benzo(b)fluoranthene	ND	0.77	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Benzo(g,h,i)perylene	ND	0.68	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Benzo(k)fluoranthene	ND	0.85	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Bis(2-chloroethoxy)methane	ND	0.76	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Bis(2-chloroethyl)ether	ND	0.90	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Bis(2-chloroisopropyl)ether	ND	0.42	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Bis(2-ethylhexyl)phthalate	ND	0.76	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Bromophenyl phenyl ether	ND	0.57	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Butyl benzyl phthalate	ND	0.48	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Carbazole	ND	0.50	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Chloro-3-methylphenol	ND	0.59	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Chloroaniline	ND	0.59	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Chloronaphthalene	ND	0.64	2.8		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Chlorophenol	ND	0.70	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Chlorophenyl phenyl ether	ND	0.64	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Chrysene	ND	0.57	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Di-n-butyl phthalate	ND	0.51	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Di-n-octyl phthalate	ND	2.8	4.5		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Dibenz(a,h)anthracene	ND	0.67	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Dibenzofuran	1.1	0.75	2.2	J	mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
1,2-Dichlorobenzene	ND	0.44	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
1,3-Dichlorobenzene	ND	0.64	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
1,4-Dichlorobenzene	ND	0.70	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
3,3´-Dichlorobenzidine	ND	0.62	2.8		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0051
Project: Kirtland AFB
Collection Date: 8/21/2014 3:21:00 PM
Lab ID: 1408B56-001
Matrix: MEOH (SOIL)
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.50	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Dimethyl phthalate	ND	0.62	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4-Dichlorophenol	ND	0.69	4.5		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4-Dimethylphenol	ND	0.67	3.4		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4,6-Dinitro-2-methylphenol	ND	0.46	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4-Dinitrophenol	ND	0.79	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4-Dinitrotoluene	ND	0.83	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,6-Dinitrotoluene	ND	0.67	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Fluoranthene	ND	0.50	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Fluorene	ND	0.66	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Hexachlorobenzene	ND	0.61	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Hexachlorobutadiene	ND	0.54	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Hexachlorocyclopentadiene	ND	0.73	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Hexachloroethane	ND	0.79	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Indeno(1,2,3-cd)pyrene	ND	0.74	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Isophorone	ND	0.74	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Methylnaphthalene	27	0.67	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Methylphenol	ND	0.64	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
3+4-Methylphenol	ND	0.76	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
N-Nitrosodi-n-propylamine	ND	0.75	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
N-Nitrosodimethylamine	ND	0.85	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
N-Nitrosodiphenylamine	ND	0.66	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Naphthalene	14	0.53	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Nitroaniline	ND	0.54	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
3-Nitroaniline	ND	0.66	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Nitroaniline	ND	0.54	4.5		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Nitrobenzene	ND	0.63	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2-Nitrophenol	ND	0.62	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
4-Nitrophenol	ND	0.69	2.8		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Pentachlorophenol	ND	0.91	4.5		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Phenanthrene	ND	0.41	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Phenol	ND	0.66	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Pyrene	ND	0.61	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Pyridine	ND	0.62	5.6		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
1,2,4-Trichlorobenzene	ND	0.65	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4,5-Trichlorophenol	ND	0.50	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
2,4,6-Trichlorophenol	ND	0.61	2.2		mg/Kg-dr	10	8/26/2014 12:03:43 PM	14932
Surr: 2-Fluorophenol	0		21-111	S	%REC	10	8/26/2014 12:03:43 PM	14932
Surr: Phenol-d5	0		23.1-117	S	%REC	10	8/26/2014 12:03:43 PM	14932

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0051
Project: Kirtland AFB
Collection Date: 8/21/2014 3:21:00 PM
Lab ID: 1408B56-001
Matrix: MEOH (SOIL)
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	10	8/26/2014 12:03:43 PM	14932
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	10	8/26/2014 12:03:43 PM	14932
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	10	8/26/2014 12:03:43 PM	14932
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	10	8/26/2014 12:03:43 PM	14932
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.076	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Toluene	0.18	0.077	0.70	J	mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Ethylbenzene	17	0.074	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Methyl tert-butyl ether (MTBE)	ND	0.26	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2,4-Trimethylbenzene	46	0.085	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,3,5-Trimethylbenzene	12	0.074	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2-Dichloroethane (EDC)	ND	0.12	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2-Dibromoethane (EDB)	ND	0.080	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Naphthalene	28	0.058	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Acetone	3.0	0.68	10	J	mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Bromobenzene	ND	0.11	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Bromodichloromethane	ND	0.090	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Bromoform	ND	0.065	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Bromomethane	ND	0.10	2.1		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
2-Butanone	1.5	0.32	7.0	J	mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Carbon disulfide	ND	0.18	7.0		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Carbon tetrachloride	ND	0.098	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Chlorobenzene	ND	0.077	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Chloroethane	ND	0.12	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Chloroform	ND	0.24	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Chloromethane	ND	0.064	2.1		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
2-Chlorotoluene	ND	0.062	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
4-Chlorotoluene	ND	0.20	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
cis-1,2-DCE	ND	0.064	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
cis-1,3-Dichloropropene	ND	0.087	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2-Dibromo-3-chloropropane	ND	0.095	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Dibromochloromethane	ND	0.068	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Dibromomethane	ND	0.080	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2-Dichlorobenzene	ND	0.083	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,3-Dichlorobenzene	ND	0.084	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,4-Dichlorobenzene	ND	0.083	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Dichlorodifluoromethane	ND	0.17	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1-Dichloroethane	ND	0.048	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1-Dichloroethene	ND	0.056	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0051
Project: Kirtland AFB
Collection Date: 8/21/2014 3:21:00 PM
Lab ID: 1408B56-001
Matrix: MEOH (SOIL)
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.062	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,3-Dichloropropane	ND	0.13	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
2,2-Dichloropropane	ND	0.075	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1-Dichloropropene	ND	0.11	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Hexachlorobutadiene	ND	0.10	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
2-Hexanone	ND	0.33	7.0		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Isopropylbenzene	5.8	0.055	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
4-Isopropyltoluene	8.6	0.063	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
4-Methyl-2-pentanone	ND	0.27	7.0		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Methylene chloride	ND	0.066	2.1		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
n-Butylbenzene	38	0.062	2.1		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
n-Propylbenzene	15	0.070	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
sec-Butylbenzene	12	0.068	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Styrene	ND	0.055	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
tert-Butylbenzene	0.25	0.077	0.70	J	mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1,1,2-Tetrachloroethane	ND	0.084	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1,2,2-Tetrachloroethane	ND	0.12	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Tetrachloroethene (PCE)	ND	0.086	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
trans-1,2-DCE	ND	0.078	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
trans-1,3-Dichloropropene	ND	0.096	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2,3-Trichlorobenzene	ND	0.078	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2,4-Trichlorobenzene	ND	0.077	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1,1-Trichloroethane	ND	0.070	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,1,2-Trichloroethane	ND	0.084	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Trichloroethene (TCE)	ND	0.097	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Trichlorofluoromethane	ND	0.073	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
1,2,3-Trichloropropane	ND	0.11	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Vinyl chloride	ND	0.057	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Xylenes, Total	24	0.21	1.4		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Bromochloromethane	ND	0.32	0.70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Vinyl acetate	ND	7.0	7.0		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Surr: Dibromofluoromethane	91.6	0	70-130		%REC	20	8/22/2014 1:41:12 PM	R20775
Surr: 1,2-Dichloroethane-d4	95.5	0	70-130		%REC	20	8/22/2014 1:41:12 PM	R20775
Surr: Toluene-d8	93.0	0	70-130		%REC	20	8/22/2014 1:41:12 PM	R20775
Surr: 4-Bromofluorobenzene	138	0	70-130	S	%REC	20	8/22/2014 1:41:12 PM	R20775
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	2300	9.1	70		mg/Kg-dr	20	8/22/2014 1:41:12 PM	R20775
Surr: BFB	144	0	61.2-137	S	%REC	20	8/22/2014 1:41:12 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408B56-002
Matrix: MEOH BLAN
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Toluene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Acetone	0.22	0.049	0.75	J	mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
2-Butanone	0.11	0.023	0.50	J	mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Chloroform	ND	0.017	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408B56-002
Matrix: MEOH BLAN
Received Date: 8/21/2014 4:52:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Methylene chloride	0.016	0.0047	0.15	J	mg/Kg	1	8/22/2014 12:45:10 PM	R20775
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Styrene	ND	0.0039	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Surr: Dibromofluoromethane	84.0	0	70-130		%REC	1	8/22/2014 12:45:10 PM	R20775
Surr: 1,2-Dichloroethane-d4	84.8	0	70-130		%REC	1	8/22/2014 12:45:10 PM	R20775
Surr: Toluene-d8	90.5	0	70-130		%REC	1	8/22/2014 12:45:10 PM	R20775
Surr: 4-Bromofluorobenzene	84.4	0	70-130		%REC	1	8/22/2014 12:45:10 PM	R20775
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/22/2014 12:45:10 PM	R20775
Surr: BFB	104	0	61.2-137		%REC	1	8/22/2014 12:45:10 PM	R20775

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14903**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**14903**		RunNo:	**20766**				
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**		SeqNo:	**604458**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.1		10.00		71.3	57.9	140			

Sample ID	**LCS-14903**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**14903**		RunNo:	**20766**				
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**		SeqNo:	**604459**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.3	68.6	130			
Surr: DNOP	3.7		5.000		74.6	57.9	140			

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	0.10	0.75								EJ
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.16	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	0.026	0.50								J
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.056	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.1	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Chlorobenzene	0.96	0.050	1.000	0	96.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	124	60.5	160			
Trichloroethene (TCE)	1.1	0.050	1.000	0	114	58.8	139			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.0	70	130			

Sample ID **1408b56-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0051**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604607** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	15	0.70	13.97	0	110	32.2	145			
Toluene	14	0.70	13.97	0.1756	101	29.1	139			
Chlorobenzene	14	0.70	13.97	0	97.5	32.4	142			
1,1-Dichloroethene	17	0.70	13.97	0	123	32.6	155			
Trichloroethene (TCE)	16	0.70	13.97	0	112	29.2	150			
Surr: Dibromofluoromethane	6.6		6.983		94.1	70	130			
Surr: 1,2-Dichloroethane-d4	6.8		6.983		97.1	70	130			
Surr: Toluene-d8	6.4		6.983		91.7	70	130			
Surr: 4-Bromofluorobenzene	12		6.983		169	70	130			S

Sample ID **1408b56-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0051**	Batch ID: **R20775**	RunNo: **20775**
Prep Date:	Analysis Date: **8/22/2014**	SeqNo: **604608** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	14	0.70	13.97	0	102	32.2	145	7.58	20	
Toluene	14	0.70	13.97	0.1756	98.0	29.1	139	3.23	20	
Chlorobenzene	13	0.70	13.97	0	96.3	32.4	142	1.25	20	
1,1-Dichloroethene	16	0.70	13.97	0	113	32.6	155	8.16	20	
Trichloroethene (TCE)	14	0.70	13.97	0	102	29.2	150	9.44	20	
Surr: Dibromofluoromethane	6.1		6.983		87.9	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	6.5		6.983		92.7	70	130	0	0	
Surr: Toluene-d8	6.5		6.983		93.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	12		6.983		165	70	130	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14932**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14932**	RunNo: **20795**
Prep Date: **8/25/2014**	Analysis Date: **8/26/2014**	SeqNo: **605186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	0.073	0.50								J
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14932**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14932**	RunNo: **20795**
Prep Date: **8/25/2014**	Analysis Date: **8/26/2014**	SeqNo: **605186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	3.4		3.330		102	21	111			
Surr: Phenol-d5	3.4		3.330		101	23.1	117			
Surr: 2,4,6-Tribromophenol	3.0		3.330		89.6	22.7	88.9			S
Surr: Nitrobenzene-d5	1.8		1.670		109	24.5	126			
Surr: 2-Fluorobiphenyl	1.8		1.670		109	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		97.3	39.4	107			

Sample ID **lcs-14932**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14932**	RunNo: **20795**
Prep Date: **8/25/2014**	Analysis Date: **8/26/2014**	SeqNo: **605187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14932**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14932**	RunNo: **20795**
Prep Date: **8/25/2014**	Analysis Date: **8/26/2014**	SeqNo: **605187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.20	1.670	0	81.4	50.7	110			
4-Chloro-3-methylphenol	2.9	0.50	3.330	0	87.5	47.8	107			
2-Chlorophenol	3.0	0.20	3.330	0	90.3	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	79.8	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	73.2	44.9	114			
N-Nitrosodi-n-propylamine	1.2	0.20	1.670	0	69.5	38.7	128			
4-Nitrophenol	2.9	0.25	3.330	0	88.2	40.2	103			
Pentachlorophenol	2.7	0.40	3.330	0	80.2	32.9	94			
Phenol	3.1	0.20	3.330	0	91.8	44.1	109			
Pyrene	1.5	0.20	1.670	0	87.9	51.9	109			
1,2,4-Trichlorobenzene	1.4	0.20	1.670	0	82.9	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		82.3	21	111			
Surr: Phenol-d5	2.9		3.330		85.9	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		72.6	22.7	88.9			
Surr: Nitrobenzene-d5	1.6		1.670		96.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		92.0	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		95.8	39.4	107			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14919**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**14919**	RunNo:	**20773**					
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**	SeqNo:	**604529**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14919**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**14919**	RunNo:	**20773**					
Prep Date:	**8/22/2014**	Analysis Date:	**8/25/2014**	SeqNo:	**604530**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	97.2	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408B56**

08-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**R20775**		RunNo:	**20775**					
Prep Date:		Analysis Date:	**8/22/2014**		SeqNo:	**604588**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		27	5.0	25.00	0	107	80	120			
Surr: BFB		480		500.0		95.2	61.2	137			

Sample ID	**5mL rb**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**R20775**		RunNo:	**20775**					
Prep Date:		Analysis Date:	**8/22/2014**		SeqNo:	**604589**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		470		500.0		95.0	61.2	137			

Sample ID	**1408b56-001a ms g**	SampType:	**MS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**FFOR-CF-0051**	Batch ID:	**R20775**		RunNo:	**20775**					
Prep Date:		Analysis Date:	**8/22/2014**		SeqNo:	**604593**	Units:	**mg/Kg-dry**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		2600	70	349.2	2257	90.2	58	134			
Surr: BFB		8900		6983		127	61.2	137			

Sample ID	**1408b56-001a msd**	SampType:	**MSD**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**FFOR-CF-0051**	Batch ID:	**R20775**		RunNo:	**20775**					
Prep Date:		Analysis Date:	**8/22/2014**		SeqNo:	**604594**	Units:	**mg/Kg-dry**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		2500	70	349.2	2257	83.8	58	134	0.873	20	
Surr: BFB		10000		6983		145	61.2	137	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1408B56 RcptNo: 1

Received by/date: 08/21/14

Logged By: **Ashley Gallegos** 8/21/2014 4:52:00 PM

Completed By: **Ashley Gallegos** 8/21/2014 4:53:08 PM

Reviewed By: 08/21/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	15.5	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 21 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.:

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/21/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/21/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: 08/21/14 Time: 1652
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE READING AT 1,474 PPM IN FFOR-CF-0051

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0051	FFOR-EXC-47-DS-FFOR-CF-0051-REG	21 AUG 2014	15:21	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1408B54
FFOR-CF-0051	FFOR-EXC-47-DS-FFOR-CF-0051-REG	21 AUG 2014	15:21	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-00

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 15, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408E34

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/27/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408E34**
Date: **9/15/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile. Acetone results should be considered estimated because the ICV for acetone, was elevated.

Analytical Notes Regarding sample "FFOR-CF-0053"-
Surrogate recoveries for EPA Method 8260, 8270, and 8015 were poor or not recoverable due to sample matrix and sample dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0052
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-001
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	29	5.9	11		mg/Kg-dr	1	8/29/2014 9:41:35 AM	15013
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	8/29/2014 9:41:35 AM	15013
Surr: DNOP	129	0	57.9-140		%REC	1	8/29/2014 9:41:35 AM	15013
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	5.6	1.0	1.0		wt%	1	8/28/2014 8:19:00 AM	R20900
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.8	0.12	0.27		mg/Kg-dr	1	9/2/2014 12:25:43 PM	15045
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Aniline	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Benz(a)anthracene	ND	0.057	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Bis(2-ethylhexyl)phthalate	ND	0.071	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Chloronaphthalene	ND	0.060	0.26		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Di-n-butyl phthalate	ND	0.048	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Di-n-octyl phthalate	ND	0.26	0.42		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
3,3´-Dichlorobenzidine	ND	0.059	0.26		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0052
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-001
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4,6-Dinitro-2-methylphenol	ND	0.043	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4-Dinitrophenol	ND	0.074	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Fluoranthene	ND	0.047	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Isophorone	ND	0.069	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Methylphenol	ND	0.060	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Nitroaniline	ND	0.051	0.42		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Pentachlorophenol	ND	0.086	0.42		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Phenol	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Pyrene	ND	0.057	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	8/29/2014 10:56:44 AM	15010
Surr: 2-Fluorophenol	67.0		21-111		%REC	1	8/29/2014 10:56:44 AM	15010
Surr: Phenol-d5	66.8		23.1-117		%REC	1	8/29/2014 10:56:44 AM	15010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0052
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-001
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	75.8		22.7-88.9		%REC	1	8/29/2014 10:56:44 AM	15010
Surr: Nitrobenzene-d5	70.0		24.5-126		%REC	1	8/29/2014 10:56:44 AM	15010
Surr: 2-Fluorobiphenyl	71.9		21.2-129		%REC	1	8/29/2014 10:56:44 AM	15010
Surr: 4-Terphenyl-d14	71.5		39.4-107		%REC	1	8/29/2014 10:56:44 AM	15010
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Toluene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Ethylbenzene	ND	0.0038	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Methyl tert-butyl ether (MTBE)	ND	0.013	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2,4-Trimethylbenzene	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,3,5-Trimethylbenzene	ND	0.0038	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2-Dichloroethane (EDC)	ND	0.0060	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2-Dibromoethane (EDB)	ND	0.0041	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Naphthalene	ND	0.0030	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Acetone	ND	0.035	0.54		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Bromobenzene	ND	0.0056	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Bromodichloromethane	ND	0.0046	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Bromoform	ND	0.0034	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Bromomethane	ND	0.0052	0.11		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
2-Butanone	ND	0.017	0.36		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Carbon disulfide	ND	0.0096	0.36		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Carbon tetrachloride	ND	0.0050	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Chlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Chloroethane	ND	0.0060	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Chloroform	ND	0.013	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Chloromethane	ND	0.0033	0.11		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
2-Chlorotoluene	ND	0.0032	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
4-Chlorotoluene	ND	0.010	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
cis-1,2-DCE	ND	0.0033	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
cis-1,3-Dichloropropene	ND	0.0045	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2-Dibromo-3-chloropropane	ND	0.0049	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Dibromochloromethane	ND	0.0035	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Dibromomethane	ND	0.0041	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,3-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,4-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Dichlorodifluoromethane	ND	0.0087	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1-Dichloroethane	ND	0.0025	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1-Dichloroethene	ND	0.0029	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0052
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-001
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.0032	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,3-Dichloropropane	ND	0.0068	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
2,2-Dichloropropane	ND	0.0039	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1-Dichloropropene	ND	0.0056	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Hexachlorobutadiene	ND	0.0053	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
2-Hexanone	ND	0.017	0.36		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Isopropylbenzene	ND	0.0029	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
4-Isopropyltoluene	ND	0.0033	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
4-Methyl-2-pentanone	ND	0.014	0.36		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Methylene chloride	0.012	0.0034	0.11	J	mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
n-Butylbenzene	ND	0.0032	0.11		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
n-Propylbenzene	ND	0.0036	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
sec-Butylbenzene	ND	0.0035	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Styrene	ND	0.0028	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
tert-Butylbenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1,1,2-Tetrachloroethane	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1,2,2-Tetrachloroethane	ND	0.0060	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Tetrachloroethene (PCE)	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
trans-1,2-DCE	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
trans-1,3-Dichloropropene	ND	0.0050	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2,3-Trichlorobenzene	ND	0.0040	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2,4-Trichlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1,1-Trichloroethane	ND	0.0036	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,1,2-Trichloroethane	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Trichloroethene (TCE)	ND	0.0050	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Trichlorofluoromethane	ND	0.0038	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
1,2,3-Trichloropropane	ND	0.0055	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Vinyl chloride	ND	0.0030	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Xylenes, Total	ND	0.011	0.072		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Bromochloromethane	ND	0.017	0.036		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Vinyl acetate	ND	0.36	0.36		mg/Kg-dr	1	9/3/2014 1:36:05 PM	R20965
Surr: Dibromofluoromethane	92.9	0	70-130		%REC	1	9/3/2014 1:36:05 PM	R20965
Surr: 1,2-Dichloroethane-d4	91.3	0	70-130		%REC	1	9/3/2014 1:36:05 PM	R20965
Surr: Toluene-d8	95.1	0	70-130		%REC	1	9/3/2014 1:36:05 PM	R20965
Surr: 4-Bromofluorobenzene	87.9	0	70-130		%REC	1	9/3/2014 1:36:05 PM	R20965
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	0.54	0.47	3.6	J	mg/Kg-dr	1	9/3/2014 2:11:05 AM	R20958
Surr: BFB	104	0	61.2-137		%REC	1	9/3/2014 2:11:05 AM	R20958

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0053
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-002
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	3200	59	110		mg/Kg-dr	10	8/29/2014 12:13:25 PM	15013
Motor Oil Range Organics (MRO)	ND	540	540		mg/Kg-dr	10	8/29/2014 12:13:25 PM	15013
Surr: DNOP	0	0	57.9-140	S	%REC	10	8/29/2014 12:13:25 PM	15013
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.1	1.0	1.0		wt%	1	8/28/2014 8:19:00 AM	R20900
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	5.6	0.11	0.26		mg/Kg-dr	1	9/2/2014 12:26:57 PM	15045
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Aniline	ND	0.063	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Benz(a)anthracene	0.15	0.058	0.21	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Benzo(a)pyrene	0.070	0.064	0.21	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Benzo(b)fluoranthene	0.41	0.073	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Benzo(g,h,i)perylene	0.11	0.065	0.21	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Benzo(k)fluoranthene	0.11	0.081	0.21	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Bis(2-chloroethoxy)methane	ND	0.072	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Bis(2-chloroethyl)ether	ND	0.086	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Bis(2-chloroisopropyl)ether	ND	0.040	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Bis(2-ethylhexyl)phthalate	ND	0.072	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Bromophenyl phenyl ether	ND	0.054	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Chloro-3-methylphenol	ND	0.057	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Chloroaniline	ND	0.057	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2-Chloronaphthalene	ND	0.061	0.27		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2-Chlorophenol	ND	0.067	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Chlorophenyl phenyl ether	ND	0.061	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Chrysene	0.23	0.054	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Di-n-butyl phthalate	0.076	0.048	0.53	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Dibenz(a,h)anthracene	ND	0.064	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Dibenzofuran	0.28	0.072	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
1,2-Dichlorobenzene	ND	0.042	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
3,3´-Dichlorobenzidine	ND	0.059	0.27		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0053
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-002
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4,6-Dinitro-2-methylphenol	ND	0.044	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4-Dinitrotoluene	ND	0.079	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Fluoranthene	0.65	0.048	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Hexachloroethane	ND	0.075	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Indeno(1,2,3-cd)pyrene	0.12	0.071	0.21	J	mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2-Methylnaphthalene	6.2	0.13	0.43		mg/Kg-dr	2	8/29/2014 12:54:28 PM	15010
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
3+4-Methylphenol	ND	0.072	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
N-Nitrosodi-n-propylamine	ND	0.071	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
N-Nitrosodimethylamine	ND	0.081	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Naphthalene	4.2	0.051	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Nitroaniline	ND	0.051	0.43		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Nitrobenzene	ND	0.060	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2-Nitrophenol	ND	0.059	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Pentachlorophenol	ND	0.087	0.43		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Phenanthrene	0.59	0.039	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Phenol	ND	0.063	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Pyrene	0.69	0.058	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
1,2,4-Trichlorobenzene	ND	0.062	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	8/29/2014 12:24:13 PM	15010
Surr: 2-Fluorophenol	57.0		21-111		%REC	1	8/29/2014 12:24:13 PM	15010
Surr: Phenol-d5	82.5		23.1-117		%REC	1	8/29/2014 12:24:13 PM	15010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0053
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-002
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	85.3		22.7-88.9		%REC	1	8/29/2014 12:24:13 PM	15010
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	8/29/2014 12:24:13 PM	15010
Surr: 2-Fluorobiphenyl	84.8		21.2-129		%REC	1	8/29/2014 12:24:13 PM	15010
Surr: 4-Terphenyl-d14	87.0		39.4-107		%REC	1	8/29/2014 12:24:13 PM	15010
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	0.044	0.040	0.37	J	mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Toluene	1.0	0.041	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Ethylbenzene	4.2	0.039	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Methyl tert-butyl ether (MTBE)	ND	0.14	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2,4-Trimethylbenzene	30	0.045	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,3,5-Trimethylbenzene	12	0.039	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2-Dichloroethane (EDC)	ND	0.061	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2-Dibromoethane (EDB)	ND	0.042	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Naphthalene	6.9	0.031	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Acetone	0.89	0.36	5.5	EJ	mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Bromobenzene	ND	0.057	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Bromodichloromethane	ND	0.047	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Bromoform	ND	0.034	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Bromomethane	ND	0.053	1.1		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
2-Butanone	0.93	0.17	3.7	J	mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Carbon disulfide	ND	0.097	3.7		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Carbon tetrachloride	ND	0.051	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Chlorobenzene	ND	0.040	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Chloroethane	ND	0.061	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Chloroform	ND	0.13	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Chloromethane	ND	0.034	1.1		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
2-Chlorotoluene	ND	0.032	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
4-Chlorotoluene	ND	0.11	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
cis-1,2-DCE	ND	0.034	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
cis-1,3-Dichloropropene	ND	0.046	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2-Dibromo-3-chloropropane	ND	0.050	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Dibromochloromethane	ND	0.036	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Dibromomethane	ND	0.042	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2-Dichlorobenzene	ND	0.043	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,3-Dichlorobenzene	ND	0.044	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,4-Dichlorobenzene	ND	0.044	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Dichlorodifluoromethane	ND	0.089	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1-Dichloroethane	ND	0.025	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1-Dichloroethene	ND	0.029	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0053
Project: Kirtland AFB
Collection Date: 8/27/2014
Lab ID: 1408E34-002
Matrix: MEOH (SOIL)
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.033	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,3-Dichloropropane	ND	0.069	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
2,2-Dichloropropane	ND	0.040	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1-Dichloropropene	ND	0.057	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Hexachlorobutadiene	ND	0.054	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
2-Hexanone	ND	0.18	3.7		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Isopropylbenzene	2.6	0.029	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
4-Isopropyltoluene	3.3	0.033	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
4-Methyl-2-pentanone	ND	0.14	3.7		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Methylene chloride	ND	0.035	1.1		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
n-Butylbenzene	9.7	0.032	1.1		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
n-Propylbenzene	6.9	0.037	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
sec-Butylbenzene	4.3	0.036	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Styrene	ND	0.029	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
tert-Butylbenzene	0.20	0.041	0.37	J	mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1,1,2-Tetrachloroethane	ND	0.044	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1,2,2-Tetrachloroethane	ND	0.061	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Tetrachloroethene (PCE)	ND	0.045	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
trans-1,2-DCE	ND	0.041	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
trans-1,3-Dichloropropene	ND	0.051	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2,3-Trichlorobenzene	ND	0.041	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2,4-Trichlorobenzene	ND	0.041	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1,1-Trichloroethane	ND	0.037	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,1,2-Trichloroethane	ND	0.044	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Trichloroethene (TCE)	0.060	0.051	0.37	J	mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Trichlorofluoromethane	ND	0.038	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
1,2,3-Trichloropropane	ND	0.056	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Vinyl chloride	ND	0.030	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Xylenes, Total	27	0.11	0.74		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Bromochloromethane	ND	0.17	0.37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Vinyl acetate	ND	3.7	3.7		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Surr: Dibromofluoromethane	95.9	0	70-130		%REC	10	8/30/2014 3:28:45 AM	R20912
Surr: 1,2-Dichloroethane-d4	94.4	0	70-130		%REC	10	8/30/2014 3:28:45 AM	R20912
Surr: Toluene-d8	92.2	0	70-130		%REC	10	8/30/2014 3:28:45 AM	R20912
Surr: 4-Bromofluorobenzene	193	0	70-130	S	%REC	10	8/30/2014 3:28:45 AM	R20912
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	2200	4.8	37		mg/Kg-dr	10	8/30/2014 3:28:45 AM	R20912
Surr: BFB	149	0	61.2-137	S	%REC	10	8/30/2014 3:28:45 AM	R20912

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408E34-003
Matrix: MEOH BLAN
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Toluene	ND	0.0055	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Acetone	ND	0.049	0.75		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
2-Butanone	ND	0.023	0.50		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Chloroform	ND	0.017	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408E34-003
Matrix: MEOH BLAN
Received Date: 8/27/2014 5:10:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Methylene chloride	ND	0.0047	0.15		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Styrene	ND	0.0039	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Surr: Dibromofluoromethane	82.1	0	70-130		%REC	1	8/29/2014 10:49:11 PM	R20912
Surr: 1,2-Dichloroethane-d4	80.4	0	70-130		%REC	1	8/29/2014 10:49:11 PM	R20912
Surr: Toluene-d8	92.7	0	70-130		%REC	1	8/29/2014 10:49:11 PM	R20912
Surr: 4-Bromofluorobenzene	82.1	0	70-130		%REC	1	8/29/2014 10:49:11 PM	R20912
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/29/2014 10:49:11 PM	R20912
Surr: BFB	106	0	61.2-137		%REC	1	8/29/2014 10:49:11 PM	R20912

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15013**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15013**	RunNo: **20869**
Prep Date: **8/28/2014**	Analysis Date: **8/28/2014**	SeqNo: **607398** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.5	57.9	140			

Sample ID **LCS-15013**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15013**	RunNo: **20869**
Prep Date: **8/28/2014**	Analysis Date: **8/28/2014**	SeqNo: **607399** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.2	68.6	130			
Surr: DNOP	4.8		5.000		96.5	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608404** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608404** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	0.031	0.50								J
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.46		0.5000		92.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.7	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.4	70	130			

Sample ID **100ng lcs3**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608405** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Chlorobenzene	0.99	0.050	1.000	0	99.1	70	130			
1,1-Dichloroethene	1.3	0.050	1.000	0	125	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	116	58.8	139			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs3**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608405** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.4	70	130			
Surr: Toluene-d8	0.49		0.5000		97.7	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		87.0	70	130			

Sample ID **100ng lcs1**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610287** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	0.99	0.050	1.000	0	99.3	70	130			
Chlorobenzene	0.92	0.050	1.000	0	91.9	70	130			
1,1-Dichloroethene	1.2	0.050	1.000	0	121	60.5	160			
Trichloroethene (TCE)	1.1	0.050	1.000	0	110	58.8	139			
Surr: Dibromofluoromethane	0.49		0.5000		97.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.46		0.5000		92.6	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		87.2	70	130			

Sample ID **1408e34-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0052**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610289** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.036	0.7221	0	104	32.2	145			
Toluene	0.77	0.036	0.7221	0	106	29.1	139			
Chlorobenzene	0.74	0.036	0.7221	0	102	32.4	142			
1,1-Dichloroethene	0.73	0.036	0.7221	0	101	32.6	155			
Trichloroethene (TCE)	0.71	0.036	0.7221	0	98.5	29.2	150			
Surr: Dibromofluoromethane	0.30		0.3610		84.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.29		0.3610		81.5	70	130			
Surr: Toluene-d8	0.32		0.3610		89.4	70	130			
Surr: 4-Bromofluorobenzene	0.32		0.3610		89.1	70	130			

Sample ID **1408e34-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0052**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610290** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1408e34-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0052**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610290** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.036	0.7221	0	103	32.2	145	1.20	20	
Toluene	0.75	0.036	0.7221	0	104	29.1	139	2.12	20	
Chlorobenzene	0.73	0.036	0.7221	0	100	32.4	142	1.37	20	
1,1-Dichloroethene	0.71	0.036	0.7221	0	98.2	32.6	155	3.20	20	
Trichloroethene (TCE)	0.72	0.036	0.7221	0	100	29.2	150	1.55	20	
Surr: Dibromofluoromethane	0.31		0.3610		85.6	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.31		0.3610		85.0	70	130	0	0	
Surr: Toluene-d8	0.33		0.3610		92.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.32		0.3610		89.8	70	130	0	0	

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.017	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	0.012	0.050								J
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		95.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15010**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15010**	RunNo: **20902**
Prep Date: **8/28/2014**	Analysis Date: **8/29/2014**	SeqNo: **608211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	88.2	50.7	110			
4-Chloro-3-methylphenol	3.4	0.50	3.330	0	101	47.8	107			
2-Chlorophenol	3.2	0.20	3.330	0	96.2	45.7	108			
1,4-Dichlorobenzene	1.5	0.20	1.670	0	87.5	46.1	112			
2,4-Dinitrotoluene	1.4	0.50	1.670	0	81.7	44.9	114			
N-Nitrosodi-n-propylamine	1.5	0.20	1.670	0	92.2	38.7	128			
4-Nitrophenol	3.3	0.25	3.330	0	99.0	40.2	103			
Pentachlorophenol	2.7	0.40	3.330	0	80.7	32.9	94			
Phenol	3.3	0.20	3.330	0	99.9	44.1	109			
Pyrene	1.6	0.20	1.670	0	94.2	51.9	109			
1,2,4-Trichlorobenzene	1.4	0.20	1.670	0	85.8	49.5	115			
Surr: 2-Fluorophenol	3.2		3.330		94.6	21	111			
Surr: Phenol-d5	3.2		3.330		95.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.8		3.330		83.0	22.7	88.9			
Surr: Nitrobenzene-d5	1.7		1.670		101	24.5	126			
Surr: 2-Fluorobiphenyl	1.6		1.670		98.4	21.2	129			
Surr: 4-Terphenyl-d14	1.6		1.670		94.0	39.4	107			

Sample ID **mb-15010**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15010**	RunNo: **20902**
Prep Date: **8/28/2014**	Analysis Date: **8/29/2014**	SeqNo: **608213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15010**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15010**	RunNo: **20902**
Prep Date: **8/28/2014**	Analysis Date: **8/29/2014**	SeqNo: **608213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15010**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15010**	RunNo: **20902**
Prep Date: **8/28/2014**	Analysis Date: **8/29/2014**	SeqNo: **608213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	3.2		3.330		96.6	21	111			
Surr: Phenol-d5	3.3		3.330		98.9	23.1	117			
Surr: 2,4,6-Tribromophenol	2.8		3.330		84.2	22.7	88.9			
Surr: Nitrobenzene-d5	1.7		1.670		103	24.5	126			
Surr: 2-Fluorobiphenyl	1.7		1.670		99.8	21.2	129			
Surr: 4-Terphenyl-d14	1.7		1.670		98.8	39.4	107			

Sample ID **1408E34-001Ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0052**	Batch ID: **15010**	RunNo: **20902**
Prep Date: **8/28/2014**	Analysis Date: **8/29/2014**	SeqNo: **608217** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.21	1.760	0	79.4	53.8	92.8			
4-Chloro-3-methylphenol	3.1	0.53	3.509	0	87.2	34.9	104			
2-Chlorophenol	2.5	0.21	3.509	0	70.4	18.2	105			
1,4-Dichlorobenzene	1.1	0.21	1.760	0	60.4	18.1	112			
2,4-Dinitrotoluene	1.3	0.53	1.760	0	76.2	22	144			
N-Nitrosodi-n-propylamine	1.4	0.21	1.760	0	77.2	58.6	101			
4-Nitrophenol	3.3	0.26	3.509	0	93.3	13.7	127			
Pentachlorophenol	3.2	0.42	3.509	0	91.6	16.5	107			
Phenol	2.7	0.21	3.509	0	75.7	12.5	114			
Pyrene	1.5	0.21	1.760	0	85.6	14.2	116			
1,2,4-Trichlorobenzene	1.2	0.21	1.760	0	66.6	16	125			
Surr: 2-Fluorophenol	2.4		3.509		68.0	21	111			
Surr: Phenol-d5	2.5		3.509		72.6	23.1	117			
Surr: 2,4,6-Tribromophenol	2.3		3.509		64.4	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.760		74.3	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.760		85.4	21.2	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1408E34-001Ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0052**	Batch ID:	**15010**		RunNo:	**20902**				
Prep Date:	**8/28/2014**	Analysis Date:	**8/29/2014**		SeqNo:	**608217**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.5		1.760		84.0	39.4	107			

Sample ID	**1408E34-001Amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0052**	Batch ID:	**15010**		RunNo:	**20902**				
Prep Date:	**8/28/2014**	Analysis Date:	**8/29/2014**		SeqNo:	**608218**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.21	1.768	0	80.0	53.8	92.8	1.22	22	
4-Chloro-3-methylphenol	3.0	0.53	3.526	0	85.7	34.9	104	1.23	27.3	
2-Chlorophenol	2.5	0.21	3.526	0	70.8	18.2	105	1.08	26.3	
1,4-Dichlorobenzene	1.0	0.21	1.768	0	58.1	18.1	112	3.51	27.4	
2,4-Dinitrotoluene	1.3	0.53	1.768	0	74.3	22	144	2.15	27.4	
N-Nitrosodi-n-propylamine	1.4	0.21	1.768	0	77.9	58.6	101	1.43	22.6	
4-Nitrophenol	3.3	0.26	3.526	0	94.0	13.7	127	1.25	20	
Pentachlorophenol	3.3	0.42	3.526	0	93.3	16.5	107	2.33	27.1	
Phenol	2.7	0.21	3.526	0	77.7	12.5	114	3.15	32.2	
Pyrene	1.5	0.21	1.768	0	83.8	14.2	116	1.65	29.5	
1,2,4-Trichlorobenzene	1.1	0.21	1.768	0	62.8	16	125	5.37	27.8	
Surr: 2-Fluorophenol	2.3		3.526		66.3	21	111	0	0	
Surr: Phenol-d5	2.5		3.526		71.2	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	2.5		3.526		71.7	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.2		1.768		70.5	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.4		1.768		80.1	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.4		1.768		79.1	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-15045**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**15045**	RunNo:	**20930**					
Prep Date:	**8/29/2014**	Analysis Date:	**9/2/2014**	SeqNo:	**609024**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.13	0.25								J

Sample ID	**LCS-15045**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**15045**	RunNo:	**20930**					
Prep Date:	**8/29/2014**	Analysis Date:	**9/2/2014**	SeqNo:	**609025**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	95.4	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb2**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608397** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	460		500.0		93.0	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20912**	RunNo: **20912**
Prep Date:	Analysis Date: **8/29/2014**	SeqNo: **608398** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	480		500.0		96.5	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20958**	RunNo: **20958**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	80	120			
Surr: BFB	480		500.0		96.1	61.2	137			

Sample ID **vcb2**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20958**	RunNo: **20958**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610271** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.4	61.2	137			

Sample ID **1408e34-001a ms g**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0052**	Batch ID: **R20958**	RunNo: **20958**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610284** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.6	18.05	0.5416	104	58	134			
Surr: BFB	400		361.0		112	61.2	137			

Sample ID **1408e34-001a msd g**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0052**	Batch ID: **R20958**	RunNo: **20958**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610285** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408E34**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1408e34-001a msd g**	SampType:	**MSD**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**FFOR-CF-0052**	Batch ID:	**R20958**		RunNo:	**20958**					
Prep Date:		Analysis Date:	**9/3/2014**		SeqNo:	**610285**	Units:	**mg/Kg-dry**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		20	3.6	18.05	0.5416	105	58	134	1.45	20	
Surr: BFB		380		361.0		105	61.2	137	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1408E34** RcptNo: **1**

Received by/date: 08/27/14

Logged By: **Ashley Gallegos** **8/27/2014 5:10:00 PM**

Completed By: **Ashley Gallegos** **8/27/2014 5:13:38 PM**

Reviewed By: 08/27/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes	No	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No	Not Present
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes	No ✔	NA
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ✔	No	
7. Sufficient sample volume for indicated test(s)?	Yes ✔	No	
8. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No	
9. Was preservative added to bottles?	Yes	No ✔	NA
10. VOA vials have zero headspace?	Yes	No	No VOA Vials ✔
11. Were any sample containers received broken?	Yes	No ✔	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	Adjusted?
14. Is it clear what analyses were requested?	Yes ✔	No	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✔	No	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes	No	NA ✔

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	18.9	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 27 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/27/14 Time: 1641	1. Received By (Signature/Affiliation)	Date: 8/27/14 Time: 1641
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 18.90C	Date: 08/27/14 Time: 1710
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID READINGS: FFOR-CF-0052 = 95.6 PPM, FFOR-CF-0053 = 2,421 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0052	FFOR-EXC-48-DS-FFOR-CF-0052-REG	27 AUG 2014	14:13	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1408E34-0
FFOR-CF-0052	FFOR-EXC-48-DS-FFOR-CF-0052-REG	27 AUG 2014	14:13	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001
FFOR-CF-0053	FFOR-EXC-49-DS-FFOR-CF-0053-REG	27 AUG 2014	15:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0053	FFOR-EXC-49-DS-FFOR-CF-0053-REG	27 AUG 2014	15:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003

MeOH Blank -003

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 15, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1406987

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1406987**
Date: **7/15/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 6010:
Arsenic is being reported from the x1 shot with an elevated internal standard. The Hall estabilisted limits for 6010 internal standards are 80-120. The internal standard for arsenic was 125%.

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8081: PESTICIDES							Analyst: **JDC**	
4,4´-DDD	ND	0.00095	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
4,4´-DDE	ND	0.00097	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
4,4´-DDT	ND	0.00078	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Aldrin	ND	0.00096	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
alpha-BHC	ND	0.0011	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
beta-BHC	ND	0.0010	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Chlordane	ND	0.027	0.12		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
delta-BHC	ND	0.00089	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Dieldrin	ND	0.00092	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Endosulfan I	ND	0.00093	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Endosulfan II	ND	0.00092	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Endosulfan sulfate	ND	0.00083	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Endrin	ND	0.00093	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Endrin aldehyde	ND	0.00080	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
gamma-BHC	ND	0.0011	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Heptachlor	ND	0.00098	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Heptachlor epoxide	ND	0.00092	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Methoxychlor	ND	0.00073	0.0020		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Toxaphene	ND	0.036	0.12		mg/Kg-dr	1	6/24/2014 9:54:45 AM	13823
Surr: Decachlorobiphenyl	74.0	0	31.2-118		%REC	1	6/24/2014 9:54:45 AM	13823
Surr: Tetrachloro-m-xylene	71.9	0	35.8-128		%REC	1	6/24/2014 9:54:45 AM	13823
EPA METHOD 8082: PCB'S							Analyst: **SCC**	
Aroclor 1016	ND	0.012	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1221	ND	0.016	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1232	ND	0.016	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1242	ND	0.0078	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1248	ND	0.012	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1254	ND	0.0059	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Aroclor 1260	ND	0.019	0.020		mg/Kg-dr	1	6/23/2014 9:04:21 PM	13824
Surr: Decachlorobiphenyl	79.2	0	37.2-143		%REC	1	6/23/2014 9:04:21 PM	13824
Surr: Tetrachloro-m-xylene	68.0	0	35.6-141		%REC	1	6/23/2014 9:04:21 PM	13824
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.5	10		mg/Kg-dr	1	6/24/2014 12:39:22 PM	13809
Motor Oil Range Organics (MRO)	ND	50	50		mg/Kg-dr	1	6/24/2014 12:39:22 PM	13809
Surr: DNOP	76.6	0	57.9-140		%REC	1	6/24/2014 12:39:22 PM	13809
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6	7.5		mg/Kg-dr	1	6/23/2014 1:29:47 PM	R19437
Surr: BFB	90.2	0	80-120		%REC	1	6/23/2014 1:29:47 PM	R19437

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	ND	1.0	1.0		wt%	1	6/20/2014 2:33:00 PM	R19425
EPA METHOD 7471: MERCURY							Analyst: **MMD**	
Mercury	ND	0.0056	0.033		mg/Kg-dr	1	6/24/2014 2:43:21 PM	13842
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Arsenic	ND	1.6	2.5		mg/Kg-dr	1	6/23/2014 11:25:09 AM	13821
Barium	80	0.48	0.50		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
Cadmium	ND	0.25	0.50		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
Chromium	4.8	0.84	1.5		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
Lead	3.9	0.92	1.2		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
Selenium	ND	6.7	12		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
Silver	ND	0.48	1.2		mg/Kg-dr	5	6/24/2014 10:42:47 AM	13821
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0056	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
1-Methylnaphthalene	ND	0.0056	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Acenaphthylene	ND	0.0060	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Acenaphthene	ND	0.0063	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Fluorene	ND	0.0072	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Phenanthrene	ND	0.0057	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Anthracene	ND	0.0060	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Fluoranthene	ND	0.0062	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Pyrene	ND	0.0049	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Benz(a)anthracene	ND	0.0051	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Chrysene	ND	0.0036	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Benzo(b)fluoranthene	ND	0.0065	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Benzo(a)pyrene	ND	0.0076	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Dibenz(a,h)anthracene	ND	0.0073	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Benzo(g,h,i)perylene	ND	0.0058	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Indeno(1,2,3-cd)pyrene	ND	0.0068	0.020		mg/Kg-dr	1	6/23/2014 11:01:53 AM	13825
Surr: N-hexadecane	70.0	0	27-106		%REC	1	6/23/2014 11:01:53 AM	13825
Surr: Benzo(e)pyrene	69.7	0	34.7-131		%REC	1	6/23/2014 11:01:53 AM	13825
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.048	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Acenaphthylene	ND	0.049	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Aniline	ND	0.059	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Anthracene	ND	0.043	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826

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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Benz(a)anthracene	ND	0.054	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Benzo(a)pyrene	ND	0.060	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Benzo(b)fluoranthene	ND	0.068	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Benzo(g,h,i)perylene	ND	0.060	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Benzo(k)fluoranthene	ND	0.076	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Bis(2-chloroethoxy)methane	ND	0.067	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Bis(2-chloroethyl)ether	ND	0.080	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Bis(2-chloroisopropyl)ether	ND	0.037	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Bis(2-ethylhexyl)phthalate	ND	0.067	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Bromophenyl phenyl ether	ND	0.050	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Butyl benzyl phthalate	ND	0.042	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Carbazole	ND	0.045	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Chloro-3-methylphenol	ND	0.053	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Chloroaniline	ND	0.053	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Chloronaphthalene	ND	0.057	0.25		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Chlorophenol	ND	0.062	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Chlorophenyl phenyl ether	ND	0.057	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Chrysene	ND	0.051	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Di-n-butyl phthalate	ND	0.045	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Di-n-octyl phthalate	ND	0.25	0.40		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Dibenz(a,h)anthracene	ND	0.059	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Dibenzofuran	ND	0.067	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
1,2-Dichlorobenzene	ND	0.039	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
1,3-Dichlorobenzene	ND	0.056	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
1,4-Dichlorobenzene	ND	0.062	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
3,3´-Dichlorobenzidine	ND	0.055	0.25		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Diethyl phthalate	ND	0.045	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Dimethyl phthalate	ND	0.055	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4-Dichlorophenol	ND	0.061	0.40		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4-Dimethylphenol	ND	0.059	0.30		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4,6-Dinitro-2-methylphenol	ND	0.041	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4-Dinitrophenol	ND	0.070	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4-Dinitrotoluene	ND	0.073	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,6-Dinitrotoluene	ND	0.059	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Fluoranthene	ND	0.045	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Fluorene	ND	0.058	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Hexachlorobenzene	ND	0.054	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Hexachlorobutadiene	ND	0.048	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Hexachlorocyclopentadiene	ND	0.064	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Hexachloroethane	ND	0.070	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Indeno(1,2,3-cd)pyrene	ND	0.066	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Isophorone	ND	0.065	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Methylnaphthalene	ND	0.059	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Methylphenol	ND	0.057	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
3+4-Methylphenol	ND	0.067	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
N-Nitrosodi-n-propylamine	ND	0.066	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
N-Nitrosodimethylamine	ND	0.075	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
N-Nitrosodiphenylamine	ND	0.058	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Naphthalene	ND	0.047	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Nitroaniline	ND	0.048	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
3-Nitroaniline	ND	0.058	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Nitroaniline	ND	0.048	0.40		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Nitrobenzene	ND	0.056	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2-Nitrophenol	ND	0.055	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
4-Nitrophenol	ND	0.061	0.25		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Pentachlorophenol	ND	0.081	0.40		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Phenanthrene	ND	0.036	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Phenol	ND	0.058	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Pyrene	ND	0.054	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Pyridine	ND	0.055	0.50		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
1,2,4-Trichlorobenzene	ND	0.058	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4,5-Trichlorophenol	ND	0.044	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
2,4,6-Trichlorophenol	ND	0.055	0.20		mg/Kg-dr	1	6/23/2014 1:13:24 PM	13826
Surr: 2-Fluorophenol	84.2		27.9-127		%REC	1	6/23/2014 1:13:24 PM	13826
Surr: Phenol-d5	92.7		24.5-126		%REC	1	6/23/2014 1:13:24 PM	13826
Surr: 2,4,6-Tribromophenol	82.3		27.6-136		%REC	1	6/23/2014 1:13:24 PM	13826
Surr: Nitrobenzene-d5	98.6		23.5-128		%REC	1	6/23/2014 1:13:24 PM	13826
Surr: 2-Fluorobiphenyl	102		22.6-132		%REC	1	6/23/2014 1:13:24 PM	13826
Surr: 4-Terphenyl-d14	98.2		28.1-128		%REC	1	6/23/2014 1:13:24 PM	13826
METHOD 8260B/5035LOW: VOLATILES							Analyst: **DJF**	
Benzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Toluene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Ethylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Xylenes, Total	ND	0.000758	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Methyl tert-butyl ether (MTBE)	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2,4-Trimethylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,3,5-Trimethylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2-Dichloroethane (EDC)	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **DJF**	
1,2-Dibromoethane (EDB)	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Naphthalene	ND	0.000758	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Acetone	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Bromobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Bromodichloromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Bromoform	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Bromomethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
2-Butanone	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Carbon tetrachloride	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Chlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Chloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Chloroform	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Chloromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
2-Chlorotoluene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Carbon disulfide	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
4-Chlorotoluene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
cis-1,2-DCE	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
cis-1,3-Dichloropropene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2-Dibromo-3-chloropropane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Dibromochloromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Dibromomethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2-Dichlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,3-Dichlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,4-Dichlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Dichlorodifluoromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1-Dichloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1-Dichloroethene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2-Dichloropropane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,3-Dichloropropane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
2,2-Dichloropropane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1-Dichloropropene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Hexachlorobutadiene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Isopropylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
4-Isopropyltoluene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Methylene chloride	ND	0.000758	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
n-Butylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
2-Hexanone	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
n-Propylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
sec-Butylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-BF-0001
Project: Kirtland AFB
Collection Date: 6/20/2014 10:45:00 AM
Lab ID: 1406987-001
Matrix: SOIL
Received Date: 6/20/2014 12:00:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **DJF**	
Styrene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
4-Methyl-2-pentanone	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
tert-Butylbenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1,1,2-Tetrachloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1,2,2-Tetrachloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Tetrachloroethene (PCE)	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
trans-1,2-DCE	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
trans-1,3-Dichloropropene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2,3-Trichlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2,4-Trichlorobenzene	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1,1-Trichloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,1,2-Trichloroethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Trichloroethene (TCE)	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Trichlorofluoromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
1,2,3-Trichloropropane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Vinyl chloride	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Vinyl acetate	ND	0.00379	0.00379		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Bromochloromethane	ND	0.000379	0.000758		mg/Kg	1	6/20/2014 7:44:59 PM	13816
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	6/20/2014 7:44:59 PM	13816
Surr: 4-Bromofluorobenzene	97.4	0	65.3-135		%REC	1	6/20/2014 7:44:59 PM	13816
Surr: Dibromofluoromethane	92.4	0	70-130		%REC	1	6/20/2014 7:44:59 PM	13816
Surr: Toluene-d8	106	0	70-130		%REC	1	6/20/2014 7:44:59 PM	13816
EPA 8151: HERBICIDES SUBBED							Analyst: **SUB**	
2,4,5-T	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
2,4,5-TP (Silvex)	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
2,4-D	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
2,4-DB	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Dacthal	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Dicamba	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Dichlorprop	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Dinoseb	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
MCPA	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Pentachlorophenol	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Picloram	ND	0.010	0.010		mg/Kg-dr	1	6/24/2014	R19479
Surr: 3,5-Dichlorobenzoic Acid	90.5	0	30-145		%REC	1	6/24/2014	R19479
HEXAVALENT CHROMIUM							Analyst: **SUB**	
Hexavalent Chromium	ND	0.64	2.0		mg/kg-dry	1	7/2/2014	R19666

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-13809**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **13809**	RunNo: **19464**
Prep Date: **6/20/2014**	Analysis Date: **6/24/2014**	SeqNo: **563212** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.1	57.9	140			

Sample ID **LCS-13809**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **13809**	RunNo: **19464**
Prep Date: **6/20/2014**	Analysis Date: **6/24/2014**	SeqNo: **563213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.5	68.6	130			
Surr: DNOP	3.8		5.000		76.7	57.9	140			

Sample ID **1406987-001BMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-BF-0001**	Batch ID: **13809**	RunNo: **19464**
Prep Date: **6/20/2014**	Analysis Date: **6/24/2014**	SeqNo: **563214** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.95	0	90.8	40.1	152			
Surr: DNOP	3.6		4.995		71.3	57.9	140			

Sample ID **1406987-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-BF-0001**	Batch ID: **13809**	RunNo: **19464**
Prep Date: **6/20/2014**	Analysis Date: **6/24/2014**	SeqNo: **563215** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.7	40.1	152	8.12	32.1	
Surr: DNOP	3.0		5.000		60.0	57.9	140	0	0	

Qualifiers:

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- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-13820 MK**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**R19437**		RunNo:	**19437**				
Prep Date:		Analysis Date:	**6/23/2014**		SeqNo:	**562664**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	80	120			

Sample ID	**LCS-13820 MK**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R19437**		RunNo:	**19437**				
Prep Date:		Analysis Date:	**6/23/2014**		SeqNo:	**562665**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	71.7	134			
Surr: BFB	980		1000		98.2	80	120			

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-13823**	SampType: **MBLK**	TestCode: **EPA Method 8081: PESTICIDES**
Client ID: **PBS**	Batch ID: **13823**	RunNo: **19460**
Prep Date: **6/22/2014**	Analysis Date: **6/24/2014**	SeqNo: **562942** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	ND	0.0020								
4,4´-DDE	ND	0.0020								
4,4´-DDT	ND	0.0020								
Aldrin	ND	0.0020								
alpha-BHC	ND	0.0020								
beta-BHC	ND	0.0020								
Chlordane	ND	0.12								
delta-BHC	ND	0.0020								
Dieldrin	ND	0.0020								
Endosulfan I	ND	0.0020								
Endosulfan II	ND	0.0020								
Endosulfan sulfate	ND	0.0020								
Endrin	ND	0.0020								
Endrin aldehyde	ND	0.0020								
gamma-BHC	ND	0.0020								
Heptachlor	ND	0.0020								
Heptachlor epoxide	ND	0.0020								
Methoxychlor	ND	0.0020								
Toxaphene	ND	0.12								
Surr: Decachlorobiphenyl	0.050		0.06250		79.7	31.2	118			
Surr: Tetrachloro-m-xylene	0.040		0.06250		64.0	35.8	128			

Sample ID **LCS-13823**	SampType: **LCS**	TestCode: **EPA Method 8081: PESTICIDES**
Client ID: **LCSS**	Batch ID: **13823**	RunNo: **19460**
Prep Date: **6/22/2014**	Analysis Date: **6/24/2014**	SeqNo: **562943** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.012	0.0020	0.01250	0	94.2	46.9	153			
4,4´-DDE	0.012	0.0020	0.01250	0	97.2	44.2	141			
4,4´-DDT	0.012	0.0020	0.01250	0	95.0	42.9	149			
Aldrin	0.010	0.0020	0.01250	0	82.2	37.2	139			
alpha-BHC	0.012	0.0020	0.01250	0	96.4	33	147			
beta-BHC	0.013	0.0020	0.01250	0	103	32.4	163			
delta-BHC	0.013	0.0020	0.01250	0	103	41	150			
Dieldrin	0.012	0.0020	0.01250	0	94.4	41	138			
Endosulfan I	0.012	0.0020	0.01250	0	97.0	36.4	146			
Endosulfan II	0.012	0.0020	0.01250	0	96.0	41.1	135			
Endosulfan sulfate	0.012	0.0020	0.01250	0	99.2	43.6	150			
Endrin	0.013	0.0020	0.01250	0	103	42.3	150			

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-13823**	SampType: **LCS**	TestCode: **EPA Method 8081: PESTICIDES**
Client ID: **LCSS**	Batch ID: **13823**	RunNo: **19460**
Prep Date: **6/22/2014**	Analysis Date: **6/24/2014**	SeqNo: **562943** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Endrin aldehyde	0.011	0.0020	0.01250	0	84.8	28	151			
gamma-BHC	0.012	0.0020	0.01250	0	98.4	32.5	150			
Heptachlor	0.012	0.0020	0.01250	0	95.0	32.8	144			
Heptachlor epoxide	0.012	0.0020	0.01250	0	97.2	43.5	134			
Methoxychlor	0.012	0.0020	0.01250	0	98.4	37.7	161			
Surr: Decachlorobiphenyl	0.064		0.06250		102	31.2	118			
Surr: Tetrachloro-m-xylene	0.056		0.06250		90.3	35.8	128			

Sample ID **1406987-001BMS**	SampType: **MS**	TestCode: **EPA Method 8081: PESTICIDES**
Client ID: **FFOR-BF-0001**	Batch ID: **13823**	RunNo: **19460**
Prep Date: **6/22/2014**	Analysis Date: **6/24/2014**	SeqNo: **562945** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.0089	0.0020	0.01243	0	71.6	29.2	189			
4,4´-DDE	0.0091	0.0020	0.01243	0	73.2	13.8	163			
4,4´-DDT	0.0091	0.0020	0.01243	0	73.4	26.5	175			
Aldrin	0.0082	0.0020	0.01243	0	65.8	35.9	137			
alpha-BHC	0.0092	0.0020	0.01243	0	74.2	30.7	145			
beta-BHC	0.0098	0.0020	0.01243	0	78.8	28.9	166			
delta-BHC	0.0099	0.0020	0.01243	0	79.4	37.6	158			
Dieldrin	0.0089	0.0020	0.01243	0	71.2	36.4	149			
Endosulfan I	0.0092	0.0020	0.01243	0	74.0	32.5	148			
Endosulfan II	0.0090	0.0020	0.01243	0	72.6	24.6	169			
Endosulfan sulfate	0.0099	0.0020	0.01243	0	79.8	36.1	176			
Endrin	0.010	0.0020	0.01243	0	80.4	38.4	158			
Endrin aldehyde	0.0087	0.0020	0.01243	0	69.6	38.8	150			
gamma-BHC	0.0094	0.0020	0.01243	0	75.4	32.4	149			
Heptachlor	0.0093	0.0020	0.01243	0	75.2	29	143			
Heptachlor epoxide	0.0092	0.0020	0.01243	0	74.2	39.2	144			
Methoxychlor	0.0092	0.0020	0.01243	0	74.4	21.6	176			
Surr: Decachlorobiphenyl	0.047		0.06216		75.1	31.2	118			
Surr: Tetrachloro-m-xylene	0.044		0.06216		70.7	35.8	128			

Sample ID **1406987-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8081: PESTICIDES**
Client ID: **FFOR-BF-0001**	Batch ID: **13823**	RunNo: **19460**
Prep Date: **6/22/2014**	Analysis Date: **6/24/2014**	SeqNo: **562946** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDD	0.0093	0.0020	0.01238	0	75.2	29.2	189	4.51	20	
4,4´-DDE	0.0098	0.0020	0.01238	0	79.4	13.8	163	7.73	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1406987-001BMSD** SampType: **MSD** TestCode: **EPA Method 8081: PESTICIDES**

Client ID: **FFOR-BF-0001** Batch ID: **13823** RunNo: **19460**

Prep Date: **6/22/2014** Analysis Date: **6/24/2014** SeqNo: **562946** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4´-DDT	0.0096	0.0020	0.01238	0	77.4	26.5	175	4.91	20	
Aldrin	0.0084	0.0020	0.01238	0	68.0	35.9	137	2.89	20	
alpha-BHC	0.0095	0.0020	0.01238	0	76.6	30.7	145	2.79	20	
beta-BHC	0.010	0.0020	0.01238	0	83.4	28.9	166	5.28	20	
delta-BHC	0.010	0.0020	0.01238	0	82.8	37.6	158	3.80	20	
Dieldrin	0.0094	0.0020	0.01238	0	75.6	36.4	149	5.60	20	
Endosulfan I	0.0097	0.0020	0.01238	0	78.6	32.5	148	5.63	20	
Endosulfan II	0.0094	0.0020	0.01238	0	76.0	24.6	169	4.18	20	
Endosulfan sulfate	0.010	0.0020	0.01238	0	84.6	36.1	176	5.44	20	
Endrin	0.011	0.0020	0.01238	0	85.2	38.4	158	5.40	20	
Endrin aldehyde	0.0091	0.0020	0.01238	0	73.4	38.8	150	4.92	20	
gamma-BHC	0.0097	0.0020	0.01238	0	78.0	32.4	149	2.99	20	
Heptachlor	0.0096	0.0020	0.01238	0	77.8	29	143	3.00	20	
Heptachlor epoxide	0.0096	0.0020	0.01238	0	77.6	39.2	144	4.08	20	
Methoxychlor	0.0098	0.0020	0.01238	0	79.2	21.6	176	5.85	20	
Surr: Decachlorobiphenyl	0.049		0.06191		78.6	31.2	118	0	20	
Surr: Tetrachloro-m-xylene	0.045		0.06191		72.7	35.8	128	0	20	

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-13824**	SampType: **MBLK**	TestCode: **EPA Method 8082: PCB's**
Client ID: **PBS**	Batch ID: **13824**	RunNo: **19446**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.020								
Aroclor 1221	ND	0.020								
Aroclor 1232	ND	0.020								
Aroclor 1242	ND	0.020								
Aroclor 1248	ND	0.020								
Aroclor 1254	ND	0.020								
Aroclor 1260	ND	0.020								
Surr: Decachlorobiphenyl	0.043		0.06250		68.4	37.2	143			
Surr: Tetrachloro-m-xylene	0.043		0.06250		68.4	35.6	141			

Sample ID **LCS-13824**	SampType: **LCS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **LCSS**	Batch ID: **13824**	RunNo: **19446**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562488** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.069	0.020	0.1250	0	55.4	34.7	146			
Aroclor 1260	0.078	0.020	0.1250	0	62.4	36.3	153			
Surr: Decachlorobiphenyl	0.044		0.06250		70.0	37.2	143			
Surr: Tetrachloro-m-xylene	0.041		0.06250		65.6	35.6	141			

Sample ID **1406987-001BMS**	SampType: **MS**	TestCode: **EPA Method 8082: PCB's**
Client ID: **FFOR-BF-0001**	Batch ID: **13824**	RunNo: **19446**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562502** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.062	0.020	0.1239	0	50.4	15.1	103			
Aroclor 1260	0.074	0.020	0.1239	0	59.8	16	151			
Surr: Decachlorobiphenyl	0.041		0.06197		66.8	37.2	143			
Surr: Tetrachloro-m-xylene	0.034		0.06197		55.2	35.6	141			

Sample ID **1406987-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 8082: PCB's**
Client ID: **FFOR-BF-0001**	Batch ID: **13824**	RunNo: **19446**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562503** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.069	0.020	0.1248	0	55.2	15.1	103	9.89	20	
Aroclor 1260	0.082	0.020	0.1248	0	65.9	16	151	10.3	32.8	
Surr: Decachlorobiphenyl	0.046		0.06238		74.4	37.2	143	0	0	
Surr: Tetrachloro-m-xylene	0.038		0.06238		61.2	35.6	141	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-R19479**	SampType: **MBLK**	TestCode: **EPA 8151: Herbicides Subbed**
Client ID: **PBS**	Batch ID: **R19479**	RunNo: **19479**
Prep Date:	Analysis Date: **6/24/2014**	SeqNo: **563687** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-T	ND	0.010								
2,4,5-TP (Silvex)	ND	0.010								
2,4-D	ND	0.010								
2,4-DB	ND	0.010								
Dacthal	ND	0.010								
Dicamba	ND	0.010								
Dichlorprop	ND	0.010								
Dinoseb	ND	0.010								
MCPA	ND	0.010								
Pentachlorophenol	ND	0.010								
Picloram	ND	0.010								

Sample ID **LCS-R19479**	SampType: **LCS**	TestCode: **EPA 8151: Herbicides Subbed**
Client ID: **LCSS**	Batch ID: **R19479**	RunNo: **19479**
Prep Date:	Analysis Date: **6/24/2014**	SeqNo: **563688** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-T	0.093		0.1000	0	93.4	31	142			
2,4,5-TP (Silvex)	0.097		0.1000	0	97.3	33	167			
2,4-D	0.11		0.1000	0	107	48	166			
Dacthal	0.034		0.1000	0	34.5	11	133			
Dicamba	0.097		0.1000	0	96.9	33	161			
Dinoseb	0.13		0.1000	0	130	41	141			
Pentachlorophenol	0.085		0.1000	0	84.8	8	126			
Picloram	0.13		0.2000	0	64.0	49	168			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-13816**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563037** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	ND	0.00200								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-13816**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563037** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0175		0.02000		87.4	70	130			
Surr: 4-Bromofluorobenzene	0.0185		0.02000		92.6	65.3	135			
Surr: Dibromofluoromethane	0.0180		0.02000		90.1	70	130			
Surr: Toluene-d8	0.0213		0.02000		106	70	130			

Sample ID **lcs-13816**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00849	0.00200	0.01000	0	84.9	70	130			
Toluene	0.00786	0.00200	0.01000	0	78.6	70	130			
Chlorobenzene	0.00846	0.00200	0.01000	0	84.6	70	130			
1,1-Dichloroethene	0.00849	0.00200	0.01000	0	84.9	70	130			
Trichloroethene (TCE)	0.00856	0.00200	0.01000	0	85.6	61.6	131			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-13816**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0178		0.02000		89.0	70	130			
Surr: 4-Bromofluorobenzene	0.0189		0.02000		94.4	65.3	135			
Surr: Dibromofluoromethane	0.0169		0.02000		84.4	70	130			
Surr: Toluene-d8	0.0187		0.02000		93.4	70	130			

Sample ID **1406987-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-BF-0001**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563041** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00298	0.000758	0.003788	0	78.6	70	130			
Toluene	0.00314	0.000758	0.003788	0	82.8	70	130			
Chlorobenzene	0.00310	0.000758	0.003788	0	81.8	70	130			
1,1-Dichloroethene	0.00304	0.000758	0.003788	0	80.3	70	130			
Trichloroethene (TCE)	0.00316	0.000758	0.003788	0	83.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.00833		0.007576		110	70	130			
Surr: 4-Bromofluorobenzene	0.00715		0.007576		94.4	65.3	135			
Surr: Dibromofluoromethane	0.00722		0.007576		95.3	70	130			
Surr: Toluene-d8	0.00772		0.007576		102	70	130			

Sample ID **1406987-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-BF-0001**	Batch ID: **13816**	RunNo: **19455**
Prep Date: **6/20/2014**	Analysis Date: **6/20/2014**	SeqNo: **563042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00303	0.000758	0.003788	0	80.1	70	130	1.89	20	
Toluene	0.00274	0.000758	0.003788	0	72.4	70	130	13.4	20	
Chlorobenzene	0.00302	0.000758	0.003788	0	79.8	70	130	2.48	20	
1,1-Dichloroethene	0.00298	0.000758	0.003788	0	78.8	70	130	1.89	20	
Trichloroethene (TCE)	0.00311	0.000758	0.003788	0	82.0	70	130	1.57	20	
Surr: 1,2-Dichloroethane-d4	0.00847		0.007576		112	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.00730		0.007576		96.4	65.3	135	0	0	
Surr: Dibromofluoromethane	0.00716		0.007576		94.6	70	130	0	0	
Surr: Toluene-d8	0.00683		0.007576		90.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-13826**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **13826**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562683** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.090	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-13826**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **13826**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562683** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	3.3		3.330		100	27.9	127			
Surr: Phenol-d5	3.5		3.330		106	24.5	126			
Surr: 2,4,6-Tribromophenol	3.0		3.330		90.4	27.6	136			
Surr: Nitrobenzene-d5	1.8		1.670		110	23.5	128			
Surr: 2-Fluorobiphenyl	1.7		1.670		102	22.6	132			
Surr: 4-Terphenyl-d14	1.6		1.670		97.1	28.1	128			

Sample ID **lcs-13826**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **13826**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-13826**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **13826**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	91.9	50.7	110			
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	98.3	47.8	107			
2-Chlorophenol	3.3	0.20	3.330	0	97.8	45.7	108			
1,4-Dichlorobenzene	1.5	0.20	1.670	0	90.2	46.1	112			
2,4-Dinitrotoluene	1.5	0.50	1.670	0	87.6	44.9	114			
N-Nitrosodi-n-propylamine	1.6	0.20	1.670	0	94.2	38.7	128			
4-Nitrophenol	3.1	0.25	3.330	0	92.9	40.2	103			
Pentachlorophenol	2.2	0.40	3.330	0	67.5	32.9	94			
Phenol	3.5	0.20	3.330	0	106	44.1	109			
Pyrene	1.7	0.20	1.670	0	104	51.9	109			
1,2,4-Trichlorobenzene	1.4	0.20	1.670	0	83.2	49.5	115			
Surr: 2-Fluorophenol	2.8		3.330		85.1	27.9	127			
Surr: Phenol-d5	3.1		3.330		92.3	24.5	126			
Surr: 2,4,6-Tribromophenol	2.8		3.330		84.9	27.6	136			
Surr: Nitrobenzene-d5	1.6		1.670		98.3	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		96.7	22.6	132			
Surr: 4-Terphenyl-d14	1.6		1.670		94.1	28.1	128			

Sample ID **1406987-001bms**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-BF-0001**	Batch ID: **13826**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562686** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.669	0	88.7	53.8	92.8			
4-Chloro-3-methylphenol	3.0	0.50	3.329	0	88.8	34.9	104			
2-Chlorophenol	2.5	0.20	3.329	0	75.2	18.2	105			
1,4-Dichlorobenzene	1.1	0.20	1.669	0	65.3	18.1	112			
2,4-Dinitrotoluene	1.4	0.50	1.669	0	81.5	22	144			
N-Nitrosodi-n-propylamine	1.3	0.20	1.669	0	80.0	58.6	101			
4-Nitrophenol	3.2	0.25	3.329	0	97.6	13.7	127			
Pentachlorophenol	2.4	0.40	3.329	0	72.9	16.5	107			
Phenol	2.6	0.20	3.329	0	78.3	12.5	114			
Pyrene	1.7	0.20	1.669	0	104	14.2	116			
1,2,4-Trichlorobenzene	1.0	0.20	1.669	0	62.4	16	125			
Surr: 2-Fluorophenol	2.2		3.329		66.7	27.9	127			
Surr: Phenol-d5	2.6		3.329		77.0	24.5	126			
Surr: 2,4,6-Tribromophenol	2.7		3.329		81.7	27.6	136			
Surr: Nitrobenzene-d5	1.3		1.669		79.9	23.5	128			
Surr: 2-Fluorobiphenyl	1.5		1.669		89.0	22.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1406987-001bms**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-BF-0001**	Batch ID:	**13826**		RunNo:	**19451**				
Prep Date:	**6/22/2014**	Analysis Date:	**6/23/2014**		SeqNo:	**562686**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.5		1.669		88.1	28.1	128			

Sample ID	**1406987-001bmsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-BF-0001**	Batch ID:	**13826**		RunNo:	**19451**				
Prep Date:	**6/22/2014**	Analysis Date:	**6/23/2014**		SeqNo:	**562687**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.667	0	91.5	53.8	92.8	2.91	22	
4-Chloro-3-methylphenol	3.1	0.50	3.323	0	92.6	34.9	104	3.94	27.3	
2-Chlorophenol	2.8	0.20	3.323	0	83.9	18.2	105	10.7	26.3	
1,4-Dichlorobenzene	1.3	0.20	1.667	0	75.8	18.1	112	14.7	27.4	
2,4-Dinitrotoluene	1.5	0.50	1.667	0	91.1	22	144	11.0	27.4	
N-Nitrosodi-n-propylamine	1.5	0.20	1.667	0	89.9	58.6	101	11.4	22.6	
4-Nitrophenol	3.1	0.25	3.323	0	92.4	13.7	127	5.59	20	
Pentachlorophenol	2.4	0.40	3.323	0	70.9	16.5	107	3.02	27.1	
Phenol	3.0	0.20	3.323	0	89.4	12.5	114	13.1	32.2	
Pyrene	1.7	0.20	1.667	0	102	14.2	116	2.06	29.5	
1,2,4-Trichlorobenzene	1.2	0.20	1.667	0	71.7	16	125	13.8	27.8	
Surr: 2-Fluorophenol	2.5		3.323		74.4	27.9	127	0	0	
Surr: Phenol-d5	2.9		3.323		86.2	24.5	126	0	0	
Surr: 2,4,6-Tribromophenol	3.0		3.323		88.9	27.6	136	0	0	
Surr: Nitrobenzene-d5	1.4		1.667		86.3	23.5	128	0	0	
Surr: 2-Fluorobiphenyl	1.5		1.667		89.3	22.6	132	0	0	
Surr: 4-Terphenyl-d14	1.6		1.667		95.5	28.1	128	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-13825**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562698** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.3		1.460		90.5	27	106			
Surr: Benzo(e)pyrene	0.28		0.3300		86.1	34.7	131			

Sample ID **lcs-13825**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562699** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.23	0.020	0.3300	0	71.1	50.1	116			
1-Methylnaphthalene	0.26	0.020	0.3300	0	78.5	50.8	121			
2-Methylnaphthalene	0.24	0.020	0.3300	0	73.1	50.4	120			
Acenaphthylene	0.26	0.020	0.3300	0	79.7	53	112			
Acenaphthene	0.26	0.020	0.3300	0	79.0	51.4	112			
Fluorene	0.26	0.020	0.3300	0	79.6	51	116			
Phenanthrene	0.28	0.020	0.3300	0	84.2	46.3	120			
Anthracene	0.28	0.020	0.3300	0	84.5	46.4	118			
Fluoranthene	0.28	0.020	0.3300	0	85.8	46.4	123			
Pyrene	0.27	0.020	0.3300	0	81.1	43.3	122			
Benz(a)anthracene	0.28	0.020	0.3300	0	83.3	44.3	118			
Chrysene	0.38	0.020	0.3300	0	115	45.5	116			
Benzo(b)fluoranthene	0.29	0.020	0.3300	0	88.4	50.5	123			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-13825**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562699** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.29	0.020	0.3300	0	88.7	49.7	117			
Benzo(a)pyrene	0.26	0.020	0.3300	0	77.9	50.8	111			
Dibenz(a,h)anthracene	0.31	0.020	0.3300	0	94.7	49.8	127			
Benzo(g,h,i)perylene	0.27	0.020	0.3300	0	81.2	46.4	122			
Indeno(1,2,3-cd)pyrene	0.26	0.020	0.3300	0	80.1	50.1	120			
Surr: N-hexadecane	1.2		1.460		82.2	27	106			
Surr: Benzo(e)pyrene	0.29		0.3300		86.8	34.7	131			

Sample ID **1406987-001bms**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-BF-0001**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562701** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.17	0.020	0.3309	0	52.2	42.6	115			
1-Methylnaphthalene	0.20	0.020	0.3309	0	59.2	42.4	122			
2-Methylnaphthalene	0.18	0.020	0.3309	0	53.6	45.2	120			
Acenaphthylene	0.19	0.020	0.3309	0	58.0	39.7	116			
Acenaphthene	0.20	0.020	0.3309	0	60.0	41.4	119			
Fluorene	0.21	0.020	0.3309	0	63.8	44.2	123			
Phenanthrene	0.26	0.020	0.3309	0	78.5	48	120			
Anthracene	0.26	0.020	0.3309	0	78.0	43.8	120			
Fluoranthene	0.28	0.020	0.3309	0	84.1	54	125			
Pyrene	0.26	0.020	0.3309	0	78.9	55	120			
Benz(a)anthracene	0.28	0.020	0.3309	0	84.9	50.9	125			
Chrysene	0.39	0.020	0.3309	0	117	45.3	127			
Benzo(b)fluoranthene	0.28	0.020	0.3309	0	85.3	49.3	131			
Benzo(k)fluoranthene	0.27	0.020	0.3309	0	81.0	50.6	127			
Benzo(a)pyrene	0.26	0.020	0.3309	0	77.1	53.8	117			
Dibenz(a,h)anthracene	0.31	0.020	0.3309	0	94.4	52	130			
Benzo(g,h,i)perylene	0.26	0.020	0.3309	0	78.9	49.4	123			
Indeno(1,2,3-cd)pyrene	0.26	0.020	0.3309	0	78.4	49.5	124			
Surr: N-hexadecane	1.0		1.464		68.9	27	106			
Surr: Benzo(e)pyrene	0.28		0.3309		85.2	34.7	131			

Sample ID **1406987-001bmsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-BF-0001**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562702** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.24	0.020	0.3288	0	73.0	42.6	115	32.6	29.7	R

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1406987-001bmsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-BF-0001**	Batch ID: **13825**	RunNo: **19451**
Prep Date: **6/22/2014**	Analysis Date: **6/23/2014**	SeqNo: **562702** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.26	0.020	0.3288	0	78.7	42.4	122	27.7	20	R
2-Methylnaphthalene	0.24	0.020	0.3288	0	71.6	45.2	120	28.1	21.2	R
Acenaphthylene	0.28	0.020	0.3288	0	86.1	39.7	116	38.4	20	R
Acenaphthene	0.29	0.020	0.3288	0	87.5	41.4	119	36.6	20.5	R
Fluorene	0.31	0.020	0.3288	0	93.8	44.2	123	37.4	20	R
Phenanthrene	0.32	0.020	0.3288	0	97.4	48	120	20.9	22	
Anthracene	0.32	0.020	0.3288	0	96.2	43.8	120	20.3	26.6	
Fluoranthene	0.33	0.020	0.3288	0	99.8	54	125	16.4	23.7	
Pyrene	0.30	0.020	0.3288	0	91.8	55	120	14.5	29.3	
Benz(a)anthracene	0.32	0.020	0.3288	0	98.3	50.9	125	13.9	25.4	
Chrysene	0.42	0.020	0.3288	0	129	45.3	127	9.00	27.6	S
Benzo(b)fluoranthene	0.32	0.020	0.3288	0	98.2	49.3	131	13.5	20	
Benzo(k)fluoranthene	0.32	0.020	0.3288	0	96.6	50.6	127	16.9	31.3	
Benzo(a)pyrene	0.30	0.020	0.3288	0	92.1	53.8	117	17.2	22.1	
Dibenz(a,h)anthracene	0.36	0.020	0.3288	0	111	52	130	15.0	21.2	
Benzo(g,h,i)perylene	0.30	0.020	0.3288	0	90.6	49.4	123	13.2	25.9	
Indeno(1,2,3-cd)pyrene	0.30	0.020	0.3288	0	90.8	49.5	124	14.1	20.4	
Surr: N-hexadecane	1.3		1.455		88.8	27	106	0	0	
Surr: Benzo(e)pyrene	0.28		0.3288		86.4	34.7	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-R19666**	SampType:	**MBLK**	TestCode:	**HEXAVALENT CHROMIUM**				
Client ID:	**PBS**	Batch ID:	**R19666**	RunNo:	**19666**				
Prep Date:		Analysis Date:	**7/2/2014**	SeqNo:	**570942**	Units:	**mg/kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	<2									

Sample ID	**LCS-R19666**	SampType:	**LCS**	TestCode:	**HEXAVALENT CHROMIUM**				
Client ID:	**LCSS**	Batch ID:	**R19666**	RunNo:	**19666**				
Prep Date:		Analysis Date:	**7/2/2014**	SeqNo:	**570943**	Units:	**mg/kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	120	0	125.0	0	97.6	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-13842**	SampType:	**MBLK**	TestCode:	**EPA Method 7471: Mercury**					
Client ID:	**PBS**	Batch ID:	**13842**	RunNo:	**19472**					
Prep Date:	**6/23/2014**	Analysis Date:	**6/24/2014**	SeqNo:	**563441**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	**LCS-13842**	SampType:	**LCS**	TestCode:	**EPA Method 7471: Mercury**					
Client ID:	**LCSS**	Batch ID:	**13842**	RunNo:	**19472**					
Prep Date:	**6/23/2014**	Analysis Date:	**6/24/2014**	SeqNo:	**563444**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.16	0.033	0.1667	0	97.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-13821**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **PBS**	Batch ID: **13821**	RunNo: **19440**
Prep Date: **6/21/2014**	Analysis Date: **6/23/2014**	SeqNo: **562349** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Lead	ND	0.25								
Selenium	ND	2.5								
Silver	0.15	0.25								J

Sample ID **LCS-13821**	SampType: **LCS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **LCSS**	Batch ID: **13821**	RunNo: **19440**
Prep Date: **6/21/2014**	Analysis Date: **6/23/2014**	SeqNo: **562350** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	25.00	0	93.8	80	120			
Barium	24	0.10	25.00	0	94.4	80	120			
Cadmium	24	0.10	25.00	0	94.3	80	120			
Chromium	23	0.30	25.00	0	93.5	80	120			
Lead	23	0.25	25.00	0	92.1	80	120			
Selenium	23	2.5	25.00	0	91.1	80	120			
Silver	5.0	0.25	5.000	0	100	80	120			

Sample ID **1406987-001BMS**	SampType: **MS**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **FFOR-BF-0001**	Batch ID: **13821**	RunNo: **19463**
Prep Date: **6/21/2014**	Analysis Date: **6/24/2014**	SeqNo: **563083** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	110	0.48	24.03	79.81	133	75	125			S
Cadmium	21	0.48	24.03	0	85.3	75	125			
Chromium	25	1.4	24.03	4.787	85.1	75	125			
Lead	24	1.2	24.03	3.907	82.5	75	125			
Selenium	15	12	24.03	0	61.8	75	125			S
Silver	3.9	1.2	4.807	0	81.6	75	125			

Sample ID **1406987-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 6010B: Soil Metals**
Client ID: **FFOR-BF-0001**	Batch ID: **13821**	RunNo: **19463**
Prep Date: **6/21/2014**	Analysis Date: **6/24/2014**	SeqNo: **563084** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	120	0.49	24.70	79.81	172	75	125	9.11	20	S
Cadmium	22	0.49	24.70	0	90.0	75	125	8.09	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406987**

15-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1406987-001BMSD**	SampType:	**MSD**	TestCode:	**EPA Method 6010B: Soil Metals**
Client ID:	**FFOR-BF-0001**	Batch ID:	**13821**	RunNo:	**19463**
Prep Date:	**6/21/2014**	Analysis Date:	**6/24/2014**	SeqNo:	**563084**
Units:	**mg/Kg-dry**				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	28	1.5	24.70	4.787	95.0	75	125	11.3	20	
Lead	25	1.2	24.70	3.907	84.2	75	125	3.96	20	
Selenium	17	12	24.70	0	68.9	75	125	13.6	20	S
Silver	4.5	1.2	4.940	0	90.3	75	125	12.8	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1406987 RcptNo: 1

Received by/date: AT 06/20/14

Logged By: Anne Thorne 6/20/2014 12:00:00 PM Anne Thorne

Completed By: Anne Thorne 6/20/2014 Anne Thorne

Reviewed By: AT 06/20/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☑ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	24.5	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-000

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 2 days

Samples Shipment Date: 20 JUN 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: / None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions: 2 day turnaround time

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 6/20/14 Time: 1145	1. Received By (Signature/Affiliation)	Date: 6/20/14 Time: 1145
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) HEAL	Date: 06/20/14 Time: 1200
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor PID = 0.0 ppm
1 - terracore kit Temp. 24.5
2 - 8-oz jars

HEAL #

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
1406997-001	FFOR-BF-0001 0,100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
-002	FFOR-BF-0001 0,100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	8 oz CWM	1	None except cool to 4 C	SVOCs by SW846 8270D			N		
-003	FFOR-BF-0001 0,100-SO-FFOR-BF-0001-REG	20 JUN 2014	10:45	8 oz CWM	1	None except cool to 4 C	TPH 8015 DRO			N		

1 8-oz jar { RCRA Metals (6010B/7471A)
Pesticides (SW846 8081A)
Herbicides (8151A)
PAHs (8270D SIM)
PCBs (8082)

TSK 6/20/14 1 8-oz jar

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 16, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407066

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/1/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407066**
Date: **7/16/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0009
Project: Kirtland AFB
Collection Date: 7/1/2014 9:43:00 AM
Lab ID: 1407066-001
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	7/2/2014 12:13:32 PM	14014
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/2/2014 12:13:32 PM	14014
Surr: DNOP	78.6	0	57.9-140		%REC	1	7/2/2014 12:13:32 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.7	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.2	0.19	0.26		mg/Kg-dr	1	7/3/2014 10:34:06 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Aniline	ND	0.063	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Benz(a)anthracene	ND	0.058	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Benzo(k)fluoranthene	ND	0.081	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Bis(2-chloroethoxy)methane	ND	0.072	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.071	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Chloronaphthalene	ND	0.061	0.27		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Di-n-butyl phthalate	ND	0.048	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Di-n-octyl phthalate	ND	0.27	0.42		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
3,3´-Dichlorobenzidine	ND	0.059	0.27		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0009
Project: Kirtland AFB
Collection Date: 7/1/2014 9:43:00 AM
Lab ID: 1407066-001
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.044	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Fluoranthene	ND	0.048	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Hexachloroethane	ND	0.075	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
3+4-Methylphenol	0.077	0.072	0.21	J	mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Nitroaniline	ND	0.051	0.42		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
4-Nitrophenol	ND	0.065	0.27		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Pentachlorophenol	ND	0.086	0.42		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Phenol	ND	0.062	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Pyrene	ND	0.058	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	7/3/2014 1:35:00 PM	14033
Surr: 2-Fluorophenol	66.6		27.9-127		%REC	1	7/3/2014 1:35:00 PM	14033
Surr: Phenol-d5	79.2		24.5-126		%REC	1	7/3/2014 1:35:00 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0009
Project: Kirtland AFB
Collection Date: 7/1/2014 9:43:00 AM
Lab ID: 1407066-001
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	62.4		27.6-136		%REC	1	7/3/2014 1:35:00 PM	14033
Surr: Nitrobenzene-d5	78.2		23.5-128		%REC	1	7/3/2014 1:35:00 PM	14033
Surr: 2-Fluorobiphenyl	78.8		22.6-132		%REC	1	7/3/2014 1:35:00 PM	14033
Surr: 4-Terphenyl-d14	75.2		28.1-128		%REC	1	7/3/2014 1:35:00 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Toluene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Ethylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Xylenes, Total	ND	0.00135	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2,4-Trimethylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,3,5-Trimethylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Naphthalene	ND	0.00135	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Acetone	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Bromobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Bromodichloromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Bromoform	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Bromomethane	0.000977	0.000674	0.00337	J	mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
2-Butanone	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Carbon tetrachloride	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Chlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Chloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Chloroform	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Chloromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
2-Chlorotoluene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Carbon disulfide	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
4-Chlorotoluene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
cis-1,2-DCE	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
cis-1,3-Dichloropropene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Dibromochloromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Dibromomethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2-Dichlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,3-Dichlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,4-Dichlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Dichlorodifluoromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1-Dichloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0009
Project: Kirtland AFB
Collection Date: 7/1/2014 9:43:00 AM
Lab ID: 1407066-001
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2-Dichloropropane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,3-Dichloropropane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
2,2-Dichloropropane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1-Dichloropropene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Hexachlorobutadiene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Isopropylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
4-Isopropyltoluene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Methylene chloride	ND	0.00135	0.00337		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
n-Butylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
2-Hexanone	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
n-Propylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
sec-Butylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Styrene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
4-Methyl-2-pentanone	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
tert-Butylbenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Tetrachloroethene (PCE)	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
trans-1,2-DCE	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
trans-1,3-Dichloropropene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2,3-Trichlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2,4-Trichlorobenzene	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1,1-Trichloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,1,2-Trichloroethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Trichloroethene (TCE)	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Trichlorofluoromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
1,2,3-Trichloropropane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Vinyl chloride	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Vinyl acetate	ND	0.00674	0.00674		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Bromochloromethane	ND	0.000674	0.00135		mg/Kg-dr	1	7/2/2014 12:57:21 PM	14027
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%REC	1	7/2/2014 12:57:21 PM	14027
Surr: 4-Bromofluorobenzene	99.6	0	65.3-135		%REC	1	7/2/2014 12:57:21 PM	14027
Surr: Dibromofluoromethane	95.7	0	70-130		%REC	1	7/2/2014 12:57:21 PM	14027
Surr: Toluene-d8	93.6	0	70-130		%REC	1	7/2/2014 12:57:21 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.50	3.8		mg/Kg-dr	1	7/3/2014 12:18:40 AM	R19656
Surr: BFB	112	0	61.2-137		%REC	1	7/3/2014 12:18:40 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0010
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-002
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	6.9	6.1	11	J	mg/Kg-dr	1	7/2/2014 1:17:44 PM	14014
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/2/2014 1:17:44 PM	14014
Surr: DNOP	81.7	0	57.9-140		%REC	1	7/2/2014 1:17:44 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.4	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	6.0	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:35:31 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Aniline	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Benz(a)anthracene	0.11	0.060	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Benzo(a)pyrene	0.080	0.066	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Benzo(b)fluoranthene	0.095	0.075	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Benzo(g,h,i)perylene	0.16	0.066	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Bis(2-chloroethoxy)methane	ND	0.074	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Bis(2-chloroethyl)ether	ND	0.088	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.074	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Chloro-3-methylphenol	ND	0.058	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Chloronaphthalene	ND	0.063	0.27		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Chrysene	0.064	0.056	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Di-n-butyl phthalate	ND	0.049	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Di-n-octyl phthalate	ND	0.27	0.44		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
3,3´-Dichlorobenzidine	ND	0.061	0.27		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0010
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-002
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4-Dichlorophenol	ND	0.067	0.44		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4-Dinitrophenol	ND	0.077	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4-Dinitrotoluene	ND	0.081	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,6-Dinitrotoluene	ND	0.065	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Fluorene	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Hexachloroethane	ND	0.077	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Indeno(1,2,3-cd)pyrene	0.16	0.073	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Isophorone	ND	0.072	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
3+4-Methylphenol	0.075	0.074	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
N-Nitrosodimethylamine	ND	0.083	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Nitrobenzene	ND	0.061	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Pentachlorophenol	ND	0.089	0.44		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Phenol	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Pyrene	0.064	0.059	0.22	J	mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	7/3/2014 3:02:42 PM	14033
Surr: 2-Fluorophenol	61.6		27.9-127		%REC	1	7/3/2014 3:02:42 PM	14033
Surr: Phenol-d5	71.0		24.5-126		%REC	1	7/3/2014 3:02:42 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0010
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-002
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	55.8		27.6-136		%REC	1	7/3/2014 3:02:42 PM	14033
Surr: Nitrobenzene-d5	66.1		23.5-128		%REC	1	7/3/2014 3:02:42 PM	14033
Surr: 2-Fluorobiphenyl	66.6		22.6-132		%REC	1	7/3/2014 3:02:42 PM	14033
Surr: 4-Terphenyl-d14	65.4		28.1-128		%REC	1	7/3/2014 3:02:42 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Toluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Ethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Xylenes, Total	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2,4-Trimethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,3,5-Trimethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Naphthalene	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Acetone	0.00986	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Bromobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Bromodichloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Bromoform	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Bromomethane	0.000917	0.000798	0.00399	J	mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
2-Butanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Carbon tetrachloride	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Chlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Chloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Chloroform	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Chloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
2-Chlorotoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Carbon disulfide	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
4-Chlorotoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
cis-1,2-DCE	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
cis-1,3-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Dibromochloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Dibromomethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,3-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,4-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Dichlorodifluoromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1-Dichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0010
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-002
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,3-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
2,2-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Hexachlorobutadiene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Isopropylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
4-Isopropyltoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Methylene chloride	ND	0.00160	0.00399		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
n-Butylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
2-Hexanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
n-Propylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
sec-Butylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Styrene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
4-Methyl-2-pentanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
tert-Butylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Tetrachloroethene (PCE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
trans-1,2-DCE	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
trans-1,3-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2,3-Trichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2,4-Trichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1,1-Trichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,1,2-Trichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Trichloroethene (TCE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Trichlorofluoromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
1,2,3-Trichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Vinyl chloride	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Vinyl acetate	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Bromochloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 1:27:04 PM	14027
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%REC	1	7/2/2014 1:27:04 PM	14027
Surr: 4-Bromofluorobenzene	95.9	0	65.3-135		%REC	1	7/2/2014 1:27:04 PM	14027
Surr: Dibromofluoromethane	95.3	0	70-130		%REC	1	7/2/2014 1:27:04 PM	14027
Surr: Toluene-d8	99.8	0	70-130		%REC	1	7/2/2014 1:27:04 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.52	4.0		mg/Kg-dr	1	7/3/2014 12:46:36 AM	R19656
Surr: BFB	121	0	61.2-137		%REC	1	7/3/2014 12:46:36 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0011
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-003
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	13	6.0	11		mg/Kg-dr	1	7/2/2014 1:48:13 PM	14014
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/2/2014 1:48:13 PM	14014
Surr: DNOP	81.9	0	57.9-140		%REC	1	7/2/2014 1:48:13 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.7	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.6	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:36:51 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Aniline	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Anthracene	ND	0.095	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Benz(a)anthracene	0.21	0.12	0.44	J	mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Benzo(a)pyrene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Benzo(b)fluoranthene	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Benzo(g,h,i)perylene	0.18	0.13	0.44	J	mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Bis(2-chloroethyl)ether	ND	0.18	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.082	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Butyl benzyl phthalate	ND	0.094	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Carbazole	ND	0.099	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Chloronaphthalene	ND	0.13	0.55		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Chlorophenyl phenyl ether	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Chrysene	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Di-n-butyl phthalate	ND	0.099	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Di-n-octyl phthalate	ND	0.55	0.88		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
1,2-Dichlorobenzene	ND	0.086	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
3,3´-Dichlorobenzidine	ND	0.12	0.55		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0011
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-003
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.099	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4-Dichlorophenol	ND	0.14	0.88		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4-Dimethylphenol	ND	0.13	0.66		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.090	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4-Dinitrophenol	ND	0.16	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Fluoranthene	ND	0.099	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Hexachlorobutadiene	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Indeno(1,2,3-cd)pyrene	0.17	0.15	0.44	J	mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Methylnaphthalene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
N-Nitrosodi-n-propylamine	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
N-Nitrosodimethylamine	ND	0.17	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Naphthalene	ND	0.10	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Nitroaniline	ND	0.11	0.88		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
4-Nitrophenol	ND	0.14	0.55		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Pentachlorophenol	ND	0.18	0.88		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Phenanthrene	ND	0.080	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Phenol	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Pyrene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4,5-Trichlorophenol	ND	0.098	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 3:31:58 PM	14033
Surr: 2-Fluorophenol	73.8		27.9-127		%REC	1	7/3/2014 3:31:58 PM	14033
Surr: Phenol-d5	75.6		24.5-126		%REC	1	7/3/2014 3:31:58 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0011
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-003
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	57.8		27.6-136		%REC	1	7/3/2014 3:31:58 PM	14033
Surr: Nitrobenzene-d5	78.6		23.5-128		%REC	1	7/3/2014 3:31:58 PM	14033
Surr: 2-Fluorobiphenyl	78.1		22.6-132		%REC	1	7/3/2014 3:31:58 PM	14033
Surr: 4-Terphenyl-d14	69.9		28.1-128		%REC	1	7/3/2014 3:31:58 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Toluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Ethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Xylenes, Total	ND	0.00133	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2,4-Trimethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,3,5-Trimethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Naphthalene	ND	0.00133	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Acetone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Bromobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Bromodichloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Bromoform	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Bromomethane	0.000808	0.000663	0.00332	J	mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
2-Butanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Carbon tetrachloride	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Chlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Chloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Chloroform	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Chloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
2-Chlorotoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Carbon disulfide	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
4-Chlorotoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
cis-1,2-DCE	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
cis-1,3-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Dibromochloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Dibromomethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,3-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,4-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Dichlorodifluoromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1-Dichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0011
Project: Kirtland AFB
Collection Date: 7/1/2014 11:14:00 AM
Lab ID: 1407066-003
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,3-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
2,2-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Hexachlorobutadiene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Isopropylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
4-Isopropyltoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Methylene chloride	ND	0.00133	0.00332		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
n-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
2-Hexanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
n-Propylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
sec-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Styrene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
4-Methyl-2-pentanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
tert-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Tetrachloroethene (PCE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
trans-1,2-DCE	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
trans-1,3-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2,3-Trichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2,4-Trichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1,1-Trichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,1,2-Trichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Trichloroethene (TCE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Trichlorofluoromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
1,2,3-Trichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Vinyl chloride	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Vinyl acetate	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Bromochloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 1:56:53 PM	14027
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%REC	1	7/2/2014 1:56:53 PM	14027
Surr: 4-Bromofluorobenzene	95.5	0	65.3-135		%REC	1	7/2/2014 1:56:53 PM	14027
Surr: Dibromofluoromethane	91.5	0	70-130		%REC	1	7/2/2014 1:56:53 PM	14027
Surr: Toluene-d8	102	0	70-130		%REC	1	7/2/2014 1:56:53 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	4.0		mg/Kg-dr	1	7/3/2014 1:14:27 AM	R19656
Surr: BFB	120	0	61.2-137		%REC	1	7/3/2014 1:14:27 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0012
Project: Kirtland AFB
Collection Date: 7/1/2014 11:33:00 AM
Lab ID: 1407066-004
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/2/2014 2:18:38 PM	14014
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/2/2014 2:18:38 PM	14014
Surr: DNOP	81.8	0	57.9-140		%REC	1	7/2/2014 2:18:38 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.2	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	1.2	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:38:16 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Aniline	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Benzo(a)pyrene	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Bis(2-chloroethoxy)methane	ND	0.074	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.073	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Chloro-3-methylphenol	ND	0.058	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Di-n-butyl phthalate	ND	0.049	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Di-n-octyl phthalate	ND	0.27	0.44		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0012
Project: Kirtland AFB
Collection Date: 7/1/2014 11:33:00 AM
Lab ID: 1407066-004
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4-Dichlorophenol	ND	0.067	0.44		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4-Dinitrophenol	ND	0.077	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4-Dinitrotoluene	ND	0.080	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,6-Dinitrotoluene	ND	0.065	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Fluorene	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Isophorone	ND	0.072	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Methylphenol	ND	0.062	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
3+4-Methylphenol	ND	0.074	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Nitroaniline	ND	0.052	0.44		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Nitrobenzene	ND	0.061	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Pentachlorophenol	ND	0.088	0.44		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Phenol	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Pyridine	ND	0.060	0.55		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	7/3/2014 4:01:18 PM	14033
Surr: 2-Fluorophenol	60.5		27.9-127		%REC	1	7/3/2014 4:01:18 PM	14033
Surr: Phenol-d5	67.2		24.5-126		%REC	1	7/3/2014 4:01:18 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0012
Project: Kirtland AFB
Collection Date: 7/1/2014 11:33:00 AM
Lab ID: 1407066-004
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	49.7		27.6-136		%REC	1	7/3/2014 4:01:18 PM	14033
Surr: Nitrobenzene-d5	64.9		23.5-128		%REC	1	7/3/2014 4:01:18 PM	14033
Surr: 2-Fluorobiphenyl	67.3		22.6-132		%REC	1	7/3/2014 4:01:18 PM	14033
Surr: 4-Terphenyl-d14	64.4		28.1-128		%REC	1	7/3/2014 4:01:18 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Toluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Ethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Xylenes, Total	ND	0.00133	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2,4-Trimethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,3,5-Trimethylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Naphthalene	ND	0.00133	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Acetone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Bromobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Bromodichloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Bromoform	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Bromomethane	0.000830	0.000663	0.00331	J	mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
2-Butanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Carbon tetrachloride	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Chlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Chloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Chloroform	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Chloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
2-Chlorotoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Carbon disulfide	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
4-Chlorotoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
cis-1,2-DCE	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
cis-1,3-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Dibromochloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Dibromomethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,3-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,4-Dichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Dichlorodifluoromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1-Dichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0012
Project: Kirtland AFB
Collection Date: 7/1/2014 11:33:00 AM
Lab ID: 1407066-004
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,3-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
2,2-Dichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Hexachlorobutadiene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Isopropylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
4-Isopropyltoluene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Methylene chloride	ND	0.00133	0.00331		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
n-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
2-Hexanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
n-Propylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
sec-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Styrene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
4-Methyl-2-pentanone	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
tert-Butylbenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Tetrachloroethene (PCE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
trans-1,2-DCE	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
trans-1,3-Dichloropropene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2,3-Trichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2,4-Trichlorobenzene	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1,1-Trichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,1,2-Trichloroethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Trichloroethene (TCE)	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Trichlorofluoromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
1,2,3-Trichloropropane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Vinyl chloride	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Vinyl acetate	ND	0.00663	0.00663		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Bromochloromethane	ND	0.000663	0.00133		mg/Kg-dr	1	7/2/2014 2:26:40 PM	14027
Surr: 1,2-Dichloroethane-d4	95.1	0	70-130		%REC	1	7/2/2014 2:26:40 PM	14027
Surr: 4-Bromofluorobenzene	97.7	0	65.3-135		%REC	1	7/2/2014 2:26:40 PM	14027
Surr: Dibromofluoromethane	87.5	0	70-130		%REC	1	7/2/2014 2:26:40 PM	14027
Surr: Toluene-d8	93.8	0	70-130		%REC	1	7/2/2014 2:26:40 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.52	4.0		mg/Kg-dr	1	7/3/2014 1:42:20 AM	R19656
Surr: BFB	125	0	61.2-137		%REC	1	7/3/2014 1:42:20 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0013
Project: Kirtland AFB
Collection Date: 7/1/2014 11:41:00 AM
Lab ID: 1407066-005
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	7/2/2014 2:49:26 PM	14014
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	7/2/2014 2:49:26 PM	14014
Surr: DNOP	81.3	0	57.9-140		%REC	1	7/2/2014 2:49:26 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.6	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	14	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:39:39 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Aniline	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Anthracene	ND	0.095	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Benz(a)anthracene	0.20	0.12	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Benzo(a)pyrene	0.15	0.13	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Benzo(b)fluoranthene	0.17	0.15	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Benzo(g,h,i)perylene	0.30	0.13	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Bis(2-chloroethyl)ether	ND	0.18	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.081	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Butyl benzyl phthalate	ND	0.093	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Carbazole	ND	0.098	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Chloronaphthalene	ND	0.12	0.55		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Chlorophenyl phenyl ether	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Chrysene	0.14	0.11	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Di-n-butyl phthalate	ND	0.098	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Di-n-octyl phthalate	ND	0.55	0.87		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
1,2-Dichlorobenzene	ND	0.085	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
3,3´-Dichlorobenzidine	ND	0.12	0.55		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0013
Project: Kirtland AFB
Collection Date: 7/1/2014 11:41:00 AM
Lab ID: 1407066-005
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.098	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4-Dichlorophenol	ND	0.13	0.87		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4-Dimethylphenol	ND	0.13	0.66		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.089	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Fluoranthene	ND	0.098	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Hexachlorobutadiene	ND	0.10	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Indeno(1,2,3-cd)pyrene	0.22	0.14	0.44	J	mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Methylnaphthalene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
N-Nitrosodi-n-propylamine	ND	0.14	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
N-Nitrosodimethylamine	ND	0.16	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Naphthalene	ND	0.10	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Nitroaniline	ND	0.11	0.87		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
4-Nitrophenol	ND	0.13	0.55		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Pentachlorophenol	ND	0.18	0.87		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Phenanthrene	ND	0.079	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Phenol	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Pyrene	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4,5-Trichlorophenol	ND	0.097	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	7/3/2014 4:30:44 PM	14033
Surr: 2-Fluorophenol	70.7		27.9-127		%REC	1	7/3/2014 4:30:44 PM	14033
Surr: Phenol-d5	73.1		24.5-126		%REC	1	7/3/2014 4:30:44 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0013
Project: Kirtland AFB
Collection Date: 7/1/2014 11:41:00 AM
Lab ID: 1407066-005
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	54.3		27.6-136		%REC	1	7/3/2014 4:30:44 PM	14033
Surr: Nitrobenzene-d5	74.4		23.5-128		%REC	1	7/3/2014 4:30:44 PM	14033
Surr: 2-Fluorobiphenyl	74.9		22.6-132		%REC	1	7/3/2014 4:30:44 PM	14033
Surr: 4-Terphenyl-d14	68.4		28.1-128		%REC	1	7/3/2014 4:30:44 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Toluene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Ethylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Xylenes, Total	ND	0.00143	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2,4-Trimethylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,3,5-Trimethylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Naphthalene	ND	0.00143	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Acetone	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Bromobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Bromodichloromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Bromoform	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Bromomethane	0.000753	0.000717	0.00359	J	mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
2-Butanone	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Carbon tetrachloride	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Chlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Chloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Chloroform	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Chloromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
2-Chlorotoluene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Carbon disulfide	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
4-Chlorotoluene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
cis-1,2-DCE	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
cis-1,3-Dichloropropene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Dibromochloromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Dibromomethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2-Dichlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,3-Dichlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,4-Dichlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Dichlorodifluoromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1-Dichloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0013
Project: Kirtland AFB
Collection Date: 7/1/2014 11:41:00 AM
Lab ID: 1407066-005
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2-Dichloropropane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,3-Dichloropropane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
2,2-Dichloropropane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1-Dichloropropene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Hexachlorobutadiene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Isopropylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
4-Isopropyltoluene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Methylene chloride	ND	0.00143	0.00359		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
n-Butylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
2-Hexanone	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
n-Propylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
sec-Butylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Styrene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
4-Methyl-2-pentanone	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
tert-Butylbenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Tetrachloroethene (PCE)	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
trans-1,2-DCE	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
trans-1,3-Dichloropropene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2,3-Trichlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2,4-Trichlorobenzene	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1,1-Trichloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,1,2-Trichloroethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Trichloroethene (TCE)	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Trichlorofluoromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
1,2,3-Trichloropropane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Vinyl chloride	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Vinyl acetate	ND	0.00717	0.00717		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Bromochloromethane	ND	0.000717	0.00143		mg/Kg-dr	1	7/2/2014 2:56:32 PM	14027
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	7/2/2014 2:56:32 PM	14027
Surr: 4-Bromofluorobenzene	97.2	0	65.3-135		%REC	1	7/2/2014 2:56:32 PM	14027
Surr: Dibromofluoromethane	85.8	0	70-130		%REC	1	7/2/2014 2:56:32 PM	14027
Surr: Toluene-d8	96.9	0	70-130		%REC	1	7/2/2014 2:56:32 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.47	3.6		mg/Kg-dr	1	7/3/2014 2:10:10 AM	R19656
Surr: BFB	119	0	61.2-137		%REC	1	7/3/2014 2:10:10 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0014
Project: Kirtland AFB
Collection Date: 7/1/2014 11:51:00 AM
Lab ID: 1407066-006
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	36	5.9	11		mg/Kg-dr	1	7/2/2014 3:20:12 PM	14014
Motor Oil Range Organics (MRO)	67	53	53		mg/Kg-dr	1	7/2/2014 3:20:12 PM	14014
Surr: DNOP	83.8	0	57.9-140		%REC	1	7/2/2014 3:20:12 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.1	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	42	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:46:02 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Acenaphthylene	ND	0.11	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Aniline	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Anthracene	ND	0.093	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Benz(a)anthracene	0.34	0.12	0.43	J	mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Benzo(a)pyrene	0.55	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Benzo(b)fluoranthene	0.77	0.15	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Benzo(g,h,i)perylene	1.4	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Benzo(k)fluoranthene	0.28	0.16	0.43	J	mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Bis(2-chloroethoxy)methane	ND	0.15	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Bis(2-chloroethyl)ether	ND	0.17	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.080	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Bromophenyl phenyl ether	ND	0.11	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Butyl benzyl phthalate	ND	0.092	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Carbazole	ND	0.097	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Chloronaphthalene	ND	0.12	0.54		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Chlorophenol	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Chlorophenyl phenyl ether	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Chrysene	0.65	0.11	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Di-n-butyl phthalate	ND	0.097	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Di-n-octyl phthalate	ND	0.54	0.86		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Dibenz(a,h)anthracene	0.33	0.13	0.43	J	mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Dibenzofuran	ND	0.14	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
1,2-Dichlorobenzene	ND	0.084	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
1,3-Dichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
1,4-Dichlorobenzene	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
3,3´-Dichlorobenzidine	ND	0.12	0.54		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0014
Project: Kirtland AFB
Collection Date: 7/1/2014 11:51:00 AM
Lab ID: 1407066-006
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.097	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Dimethyl phthalate	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4-Dichlorophenol	ND	0.13	0.86		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4-Dimethylphenol	ND	0.13	0.65		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.089	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Fluoranthene	0.35	0.097	0.43	J	mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Fluorene	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Hexachlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Hexachlorobutadiene	ND	0.10	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Hexachlorocyclopentadiene	ND	0.14	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Hexachloroethane	ND	0.15	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Indeno(1,2,3-cd)pyrene	1.2	0.14	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Methylnaphthalene	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
3+4-Methylphenol	ND	0.15	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
N-Nitrosodi-n-propylamine	ND	0.14	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
N-Nitrosodimethylamine	ND	0.16	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
N-Nitrosodiphenylamine	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Naphthalene	ND	0.10	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Nitroaniline	ND	0.10	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
3-Nitroaniline	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Nitroaniline	ND	0.10	0.86		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2-Nitrophenol	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
4-Nitrophenol	ND	0.13	0.54		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Pentachlorophenol	ND	0.18	0.86		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Phenanthrene	0.091	0.078	0.43	J	mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Phenol	ND	0.13	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Pyrene	0.44	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
1,2,4-Trichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4,5-Trichlorophenol	ND	0.096	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
2,4,6-Trichlorophenol	ND	0.12	0.43		mg/Kg-dr	1	7/3/2014 5:00:06 PM	14033
Surr: 2-Fluorophenol	70.1		27.9-127		%REC	1	7/3/2014 5:00:06 PM	14033
Surr: Phenol-d5	74.3		24.5-126		%REC	1	7/3/2014 5:00:06 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0014
Project: Kirtland AFB
Collection Date: 7/1/2014 11:51:00 AM
Lab ID: 1407066-006
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	48.8		27.6-136		%REC	1	7/3/2014 5:00:06 PM	14033
Surr: Nitrobenzene-d5	76.0		23.5-128		%REC	1	7/3/2014 5:00:06 PM	14033
Surr: 2-Fluorobiphenyl	76.0		22.6-132		%REC	1	7/3/2014 5:00:06 PM	14033
Surr: 4-Terphenyl-d14	71.7		28.1-128		%REC	1	7/3/2014 5:00:06 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Toluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Ethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Xylenes, Total	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2,4-Trimethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,3,5-Trimethylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Naphthalene	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Acetone	0.00833	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Bromobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Bromodichloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Bromoform	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Bromomethane	0.000860	0.000798	0.00399	J	mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
2-Butanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Carbon tetrachloride	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Chlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Chloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Chloroform	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Chloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
2-Chlorotoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Carbon disulfide	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
4-Chlorotoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
cis-1,2-DCE	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
cis-1,3-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Dibromochloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Dibromomethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,3-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,4-Dichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Dichlorodifluoromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1-Dichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0014
Project: Kirtland AFB
Collection Date: 7/1/2014 11:51:00 AM
Lab ID: 1407066-006
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,3-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
2,2-Dichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Hexachlorobutadiene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Isopropylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
4-Isopropyltoluene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Methylene chloride	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
n-Butylbenzene	ND	0.000798	0.00399		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
2-Hexanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
n-Propylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
sec-Butylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Styrene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
4-Methyl-2-pentanone	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
tert-Butylbenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Tetrachloroethene (PCE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
trans-1,2-DCE	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
trans-1,3-Dichloropropene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2,3-Trichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2,4-Trichlorobenzene	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1,1-Trichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,1,2-Trichloroethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Trichloroethene (TCE)	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Trichlorofluoromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
1,2,3-Trichloropropane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Vinyl chloride	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Vinyl acetate	ND	0.00798	0.00798		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Bromochloromethane	ND	0.000798	0.00160		mg/Kg-dr	1	7/2/2014 3:26:18 PM	14027
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	7/2/2014 3:26:18 PM	14027
Surr: 4-Bromofluorobenzene	95.2	0	65.3-135		%REC	1	7/2/2014 3:26:18 PM	14027
Surr: Dibromofluoromethane	77.2	0	70-130		%REC	1	7/2/2014 3:26:18 PM	14027
Surr: Toluene-d8	96.6	0	70-130		%REC	1	7/2/2014 3:26:18 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	3.9		mg/Kg-dr	1	7/3/2014 2:37:59 AM	R19656
Surr: BFB	117	0	61.2-137		%REC	1	7/3/2014 2:37:59 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0015
Project: Kirtland AFB
Collection Date: 7/1/2014 2:10:00 PM
Lab ID: 1407066-007
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **JME**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	7/2/2014 3:50:55 PM	14014
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/2/2014 3:50:55 PM	14014
Surr: DNOP	84.8	0	57.9-140		%REC	1	7/2/2014 3:50:55 PM	14014
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	7/2/2014 9:20:00 AM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.4	0.20	0.27		mg/Kg-dr	1	7/3/2014 10:47:26 AM	14031
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Acenaphthylene	ND	0.055	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Aniline	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Anthracene	ND	0.049	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Benz(a)anthracene	ND	0.061	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Benzo(a)pyrene	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Benzo(b)fluoranthene	ND	0.077	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Bis(2-chloroethoxy)methane	ND	0.076	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Bis(2-chloroethyl)ether	ND	0.090	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Bis(2-chloroisopropyl)ether	ND	0.042	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Bis(2-ethylhexyl)phthalate	ND	0.076	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Bromophenyl phenyl ether	ND	0.057	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Butyl benzyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Chlorophenol	ND	0.070	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Chlorophenyl phenyl ether	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Chrysene	ND	0.057	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Di-n-butyl phthalate	ND	0.051	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Dibenz(a,h)anthracene	ND	0.067	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
1,2-Dichlorobenzene	ND	0.044	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
1,3-Dichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
1,4-Dichlorobenzene	ND	0.070	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0015
Project: Kirtland AFB
Collection Date: 7/1/2014 2:10:00 PM
Lab ID: 1407066-007
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,6-Dinitrotoluene	ND	0.067	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Fluorene	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Hexachlorobutadiene	ND	0.054	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Hexachlorocyclopentadiene	ND	0.073	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Hexachloroethane	ND	0.079	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Methylnaphthalene	ND	0.067	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
3+4-Methylphenol	ND	0.076	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
N-Nitrosodi-n-propylamine	ND	0.075	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
N-Nitrosodimethylamine	ND	0.085	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
N-Nitrosodiphenylamine	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
3-Nitroaniline	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2-Nitrophenol	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Phenanthrene	ND	0.041	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Phenol	ND	0.066	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Pyrene	ND	0.061	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
1,2,4-Trichlorobenzene	ND	0.065	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4,5-Trichlorophenol	ND	0.050	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
2,4,6-Trichlorophenol	ND	0.062	0.22		mg/Kg-dr	1	7/3/2014 5:29:23 PM	14033
Surr: 2-Fluorophenol	39.6		27.9-127		%REC	1	7/3/2014 5:29:23 PM	14033
Surr: Phenol-d5	44.1		24.5-126		%REC	1	7/3/2014 5:29:23 PM	14033

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0015
Project: Kirtland AFB
Collection Date: 7/1/2014 2:10:00 PM
Lab ID: 1407066-007
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	42.8		27.6-136		%REC	1	7/3/2014 5:29:23 PM	14033
Surr: Nitrobenzene-d5	44.8		23.5-128		%REC	1	7/3/2014 5:29:23 PM	14033
Surr: 2-Fluorobiphenyl	47.8		22.6-132		%REC	1	7/3/2014 5:29:23 PM	14033
Surr: 4-Terphenyl-d14	59.1		28.1-128		%REC	1	7/3/2014 5:29:23 PM	14033
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.00230	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Toluene	0.00323	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Ethylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Xylenes, Total	0.00254	0.00163	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2,4-Trimethylbenzene	0.00102	0.000815	0.00163	J	mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,3,5-Trimethylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Naphthalene	ND	0.00163	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Acetone	0.0116	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Bromobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Bromodichloromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Bromoform	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Bromomethane	0.000945	0.000815	0.00407	J	mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
2-Butanone	ND	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Carbon tetrachloride	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Chlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Chloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Chloroform	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Chloromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
2-Chlorotoluene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Carbon disulfide	ND	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
4-Chlorotoluene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
cis-1,2-DCE	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
cis-1,3-Dichloropropene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Dibromochloromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Dibromomethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2-Dichlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,3-Dichlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,4-Dichlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Dichlorodifluoromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1-Dichloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0015
Project: Kirtland AFB
Collection Date: 7/1/2014 2:10:00 PM
Lab ID: 1407066-007
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2-Dichloropropane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,3-Dichloropropane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
2,2-Dichloropropane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1-Dichloropropene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Hexachlorobutadiene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Isopropylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
4-Isopropyltoluene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Methylene chloride	ND	0.00163	0.00407		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
n-Butylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
2-Hexanone	ND	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
n-Propylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
sec-Butylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Styrene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
4-Methyl-2-pentanone	ND	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
tert-Butylbenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Tetrachloroethene (PCE)	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
trans-1,2-DCE	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
trans-1,3-Dichloropropene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2,3-Trichlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2,4-Trichlorobenzene	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1,1-Trichloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,1,2-Trichloroethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Trichloroethene (TCE)	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Trichlorofluoromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
1,2,3-Trichloropropane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Vinyl chloride	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Vinyl acetate	ND	0.00815	0.00815		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Bromochloromethane	ND	0.000815	0.00163		mg/Kg-dr	1	7/2/2014 3:56:03 PM	14027
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%REC	1	7/2/2014 3:56:03 PM	14027
Surr: 4-Bromofluorobenzene	96.2	0	65.3-135		%REC	1	7/2/2014 3:56:03 PM	14027
Surr: Dibromofluoromethane	87.4	0	70-130		%REC	1	7/2/2014 3:56:03 PM	14027
Surr: Toluene-d8	104	0	70-130		%REC	1	7/2/2014 3:56:03 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.54	4.1		mg/Kg-dr	1	7/3/2014 3:05:55 AM	R19656
Surr: BFB	119	0	61.2-137		%REC	1	7/3/2014 3:05:55 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407066-008
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Toluene	ND	0.0055	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Acetone	ND	0.049	0.75		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Bromomethane	0.077	0.0071	0.15	J	mg/Kg	1	7/3/2014 3:33:45 AM	R19656
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Chloroform	ND	0.017	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: Methanol Blank
Project: Kirtland AFB
Collection Date:
Lab ID: 1407066-008
Matrix: MEOH (SOIL)
Received Date: 7/1/2014 4:05:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Methylene chloride	0.012	0.0047	0.15	J	mg/Kg	1	7/3/2014 3:33:45 AM	R19656
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Styrene	ND	0.0039	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Surr: Dibromofluoromethane	109	0	70-130		%REC	1	7/3/2014 3:33:45 AM	R19656
Surr: 1,2-Dichloroethane-d4	96.5	0	70-130		%REC	1	7/3/2014 3:33:45 AM	R19656
Surr: Toluene-d8	81.9	0	70-130		%REC	1	7/3/2014 3:33:45 AM	R19656
Surr: 4-Bromofluorobenzene	82.2	0	70-130		%REC	1	7/3/2014 3:33:45 AM	R19656
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/3/2014 3:33:45 AM	R19656
Surr: BFB	117	0	61.2-137		%REC	1	7/3/2014 3:33:45 AM	R19656

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14014**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14014**	RunNo: **19624**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **569693** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.4	57.9	140			

Sample ID **LCS-14014**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14014**	RunNo: **19624**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **569694** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.2	68.6	130			
Surr: DNOP	3.6		5.000		72.0	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570597** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	0.0094	0.10								J
Acetone	0.14	0.75								J
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.13	0.50								J
Carbon disulfide	0.019	0.50								J
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	0.0089	0.050								J
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	0.013	0.050								J
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	0.0098	0.10								J

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570597** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	0.020	0.50								J
Methylene chloride	0.041	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	0.013	0.050								J
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	0.0070	0.050								J
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	0.0074	0.050								J
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	0.018	0.050								J
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		95.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.2	70	130			
Surr: Toluene-d8	0.44		0.5000		87.8	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.1	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	70	130			
Toluene	1.1	0.050	1.000	0	107	60.1	120			
Chlorobenzene	1.0	0.050	1.000	0	103	70	130			
1,1-Dichloroethene	1.1	0.050	1.000	0	111	78.2	162			
Trichloroethene (TCE)	1.1	0.050	1.000	0	115	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19656**	RunNo: **19656**
Prep Date:	Analysis Date: **7/2/2014**	SeqNo: **570598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: Toluene-d8	0.43		0.5000		86.9	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14027**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570596** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00123	0.00500								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14027**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570596** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	0.00406	0.00500								J
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Vinyl acetate	ND	0.0100								
Bromochloromethane	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0205		0.02000		102	70	130			
Surr: 4-Bromofluorobenzene	0.0195		0.02000		97.7	65.3	135			
Surr: Dibromofluoromethane	0.0169		0.02000		84.3	70	130			
Surr: Toluene-d8	0.0195		0.02000		97.5	70	130			

Sample ID **lcs-14027**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570609** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00991	0.00200	0.01000	0	99.1	70	130			
Toluene	0.0100	0.00200	0.01000	0	100	70	130			
Chlorobenzene	0.00956	0.00200	0.01000	0	95.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14027**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570609** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00905	0.00200	0.01000	0	90.5	70	130			
Trichloroethene (TCE)	0.00964	0.00200	0.01000	0	96.4	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0211		0.02000		105	70	130			
Surr: 4-Bromofluorobenzene	0.0193		0.02000		96.3	65.3	135			
Surr: Dibromofluoromethane	0.0189		0.02000		94.6	70	130			
Surr: Toluene-d8	0.0205		0.02000		102	70	130			

Sample ID **1407066-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0009**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570631** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00618	0.00136	0.006783	0	91.1	70	130			
Toluene	0.00600	0.00136	0.006783	0	88.5	70	130			
Chlorobenzene	0.00627	0.00136	0.006783	0	92.4	70	130			
1,1-Dichloroethene	0.00587	0.00136	0.006783	0	86.5	70	130			
Trichloroethene (TCE)	0.00611	0.00136	0.006783	0	90.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.0137		0.01357		101	70	130			
Surr: 4-Bromofluorobenzene	0.0137		0.01357		101	65.3	135			
Surr: Dibromofluoromethane	0.0102		0.01357		75.5	70	130			
Surr: Toluene-d8	0.0125		0.01357		91.9	70	130			

Sample ID **1407066-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0009**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570632** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00593	0.00136	0.006783	0	87.5	70	130	4.10	20	
Toluene	0.00571	0.00136	0.006783	0	84.3	70	130	4.94	20	
Chlorobenzene	0.00586	0.00136	0.006783	0	86.4	70	130	6.69	20	
1,1-Dichloroethene	0.00558	0.00136	0.006783	0	82.3	70	130	4.98	20	
Trichloroethene (TCE)	0.00626	0.00136	0.006783	0	92.4	70	130	2.47	20	
Surr: 1,2-Dichloroethane-d4	0.0143		0.01357		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0134		0.01357		99.1	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0110		0.01357		81.4	70	130	0	0	
Surr: Toluene-d8	0.0125		0.01357		92.4	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14065**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572203** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0212		0.02000		106	70	130			
Surr: 4-Bromofluorobenzene	0.0192		0.02000		95.8	65.3	135			
Surr: Dibromofluoromethane	0.0178		0.02000		89.0	70	130			
Surr: Toluene-d8	0.0204		0.02000		102	70	130			

Sample ID **lcs-14065**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14065**	RunNo: **19705**
Prep Date:	Analysis Date: **7/3/2014**	SeqNo: **572205** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0215		0.02000		107	70	130			
Surr: 4-Bromofluorobenzene	0.0185		0.02000		92.7	65.3	135			
Surr: Dibromofluoromethane	0.0182		0.02000		91.1	70	130			
Surr: Toluene-d8	0.0205		0.02000		102	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14033**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14033**	RunNo: **19695**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **572116** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.11	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14033**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14033**	RunNo: **19695**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **572116** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	0.079	0.25								J
Pentachlorophenol	ND	0.40								
Phenanthrene	0.038	0.20								J
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.5		3.330		76.1	27.9	127			
Surr: Phenol-d5	2.6		3.330		78.0	24.5	126			
Surr: 2,4,6-Tribromophenol	2.1		3.330		62.4	27.6	136			
Surr: Nitrobenzene-d5	1.4		1.670		84.2	23.5	128			
Surr: 2-Fluorobiphenyl	1.4		1.670		84.4	22.6	132			
Surr: 4-Terphenyl-d14	1.3		1.670		76.1	28.1	128			

Sample ID **lcs-14033**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14033**	RunNo: **19695**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **572117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14033**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14033**	RunNo: **19695**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **572117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.670	0	73.5	50.7	110			
4-Chloro-3-methylphenol	2.7	0.50	3.330	0	79.7	47.8	107			
2-Chlorophenol	2.4	0.20	3.330	0	72.7	45.7	108			
1,4-Dichlorobenzene	1.1	0.20	1.670	0	66.9	46.1	112			
2,4-Dinitrotoluene	1.1	0.50	1.670	0	68.0	44.9	114			
N-Nitrosodi-n-propylamine	1.2	0.20	1.670	0	74.2	38.7	128			
4-Nitrophenol	2.4	0.25	3.330	0	71.3	40.2	103			
Pentachlorophenol	1.5	0.40	3.330	0	43.9	32.9	94			
Phenol	2.4	0.20	3.330	0	72.6	44.1	109			
Pyrene	1.3	0.20	1.670	0	80.2	51.9	109			
1,2,4-Trichlorobenzene	1.1	0.20	1.670	0	65.6	49.5	115			
Surr: 2-Fluorophenol	2.1		3.330		64.2	27.9	127			
Surr: Phenol-d5	2.6		3.330		76.8	24.5	126			
Surr: 2,4,6-Tribromophenol	2.3		3.330		69.3	27.6	136			
Surr: Nitrobenzene-d5	1.3		1.670		80.6	23.5	128			
Surr: 2-Fluorobiphenyl	1.4		1.670		85.1	22.6	132			
Surr: 4-Terphenyl-d14	1.3		1.670		77.8	28.1	128			

Sample ID **1407066-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0009**	Batch ID: **14033**	RunNo: **19695**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **572125** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.21	1.795	0	67.9	53.8	92.8			
4-Chloro-3-methylphenol	2.8	0.54	3.578	0	78.1	34.9	104			
2-Chlorophenol	2.4	0.21	3.578	0	65.9	18.2	105			
1,4-Dichlorobenzene	1.0	0.21	1.795	0	56.9	18.1	112			
2,4-Dinitrotoluene	1.2	0.54	1.795	0	69.4	22	144			
N-Nitrosodi-n-propylamine	1.1	0.21	1.795	0	64.0	58.6	101			
4-Nitrophenol	2.7	0.27	3.578	0	75.8	13.7	127			
Pentachlorophenol	1.7	0.43	3.578	0	46.4	16.5	107			
Phenol	2.5	0.21	3.578	0	69.5	12.5	114			
Pyrene	1.4	0.21	1.795	0	77.9	14.2	116			
1,2,4-Trichlorobenzene	1.0	0.21	1.795	0	57.4	16	125			
Surr: 2-Fluorophenol	2.1		3.578		58.2	27.9	127			
Surr: Phenol-d5	2.4		3.578		65.8	24.5	126			
Surr: 2,4,6-Tribromophenol	2.2		3.578		60.7	27.6	136			
Surr: Nitrobenzene-d5	1.2		1.795		67.5	23.5	128			
Surr: 2-Fluorobiphenyl	1.2		1.795		68.8	22.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407066-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0009**	Batch ID:	**14033**		RunNo:	**19695**				
Prep Date:	**7/2/2014**	Analysis Date:	**7/3/2014**		SeqNo:	**572125**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.2		1.795		67.5	28.1	128			

Sample ID	**1407066-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0009**	Batch ID:	**14033**		RunNo:	**19695**				
Prep Date:	**7/2/2014**	Analysis Date:	**7/3/2014**		SeqNo:	**572126**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.21	1.787	0	76.7	53.8	92.8	11.8	22	
4-Chloro-3-methylphenol	2.9	0.54	3.564	0	82.7	34.9	104	5.29	27.3	
2-Chlorophenol	2.7	0.21	3.564	0	74.8	18.2	105	12.2	26.3	
1,4-Dichlorobenzene	1.1	0.21	1.787	0	63.2	18.1	112	9.94	27.4	
2,4-Dinitrotoluene	1.3	0.54	1.787	0	71.6	22	144	2.74	27.4	
N-Nitrosodi-n-propylamine	1.3	0.21	1.787	0	72.6	58.6	101	12.3	22.6	
4-Nitrophenol	2.8	0.27	3.564	0	78.7	13.7	127	3.41	20	
Pentachlorophenol	1.9	0.43	3.564	0	52.1	16.5	107	11.0	27.1	
Phenol	2.8	0.21	3.564	0	78.2	12.5	114	11.4	32.2	
Pyrene	1.5	0.21	1.787	0	84.3	14.2	116	7.43	29.5	
1,2,4-Trichlorobenzene	1.1	0.21	1.787	0	63.0	16	125	8.82	27.8	
Surr: 2-Fluorophenol	2.2		3.564		62.1	27.9	127	0	0	
Surr: Phenol-d5	2.8		3.564		79.3	24.5	126	0	0	
Surr: 2,4,6-Tribromophenol	2.2		3.564		62.1	27.6	136	0	0	
Surr: Nitrobenzene-d5	1.4		1.787		80.5	23.5	128	0	0	
Surr: 2-Fluorobiphenyl	1.5		1.787		81.7	22.6	132	0	0	
Surr: 4-Terphenyl-d14	1.3		1.787		72.1	28.1	128	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**LCS-14031**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14031**		RunNo:	**19675**				
Prep Date:	**7/2/2014**	Analysis Date:	**7/3/2014**		SeqNo:	**571138**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.25	25.00	0	87.5	80	120			

Sample ID	**MB-14031**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14031**		RunNo:	**19675**				
Prep Date:	**7/2/2014**	Analysis Date:	**7/3/2014**		SeqNo:	**571141**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407066**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**5mL-rb**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**R19656**	RunNo:	**19656**
Prep Date:		Analysis Date:	**7/2/2014**	SeqNo:	**570537**

Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		103	61.2	137			

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**R19656**	RunNo:	**19656**
Prep Date:		Analysis Date:	**7/2/2014**	SeqNo:	**570547**

Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	80	120			
Surr: BFB	530		500.0		105	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407066 RcptNo: 1

Received by/date: 07/01/14

Logged By: **Ashley Gallegos** 7/1/2014 4:05:00 PM

Completed By: **Ashley Gallegos** 7/1/2014 4:08:43 PM

Reviewed By: 07/01/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 01 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: / None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation): Date: 7/1/14 Time: 1545	1. Received By (Signature/Affiliation): Date: 7/1/14 Time: 1546
2. Relinquished By (Signature/Affiliation): Date: Time:	2. Received By (Signature/Affiliation): 1.6°C Date: 07/01/14 Time: 1605
3. Relinquished By (Signature/Affiliation): Date: Time:	3. Received By (Signature/Affiliation): Date: Time:

Comments: No odor in any samples. PID: FFOR-CF-0009=1.3 ppm, FFOR-CF-0010=1.6 ppm, FFOR-CF-0011=1.6 ppm, FFOR-CF-0012=0.0 ppm, FFOR-CF-0013=0.0 ppm, FFOR-CF-0014=0.0 ppm, FFOR-CF-0015=2.2 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0009	FFOR-EXC-09-DS-FFOR-CF-0009-REG	01 JUL 2014	09:43	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		1407066-(
FFOR-CF-0009	FFOR-EXC-09-DS-FFOR-CF-0009-REG	01 JUL 2014	09:43	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0010	FFOR-EXC-10-DS-FFOR-CF-0010-REG	01 JUL 2014	11:14	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0010	FFOR-EXC-10-DS-FFOR-CF-0010-REG	01 JUL 2014	11:14	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0011	FFOR-EXC-10-DS-FFOR-CF-0011-FD	01 JUL 2014	11:14	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-003
FFOR-CF-0011	FFOR-EXC-10-DS-FFOR-CF-0011-FD	01 JUL 2014	11:14	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-0(

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D, TPH DRO 8015B					
FFOR-CF-0012	FFOR-EXC-11-DS-FFOR-CF-0012-REG	01 JUL 2014	11:33	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		140706b-(
FFOR-CF-0012	FFOR-EXC-11-DS-FFOR-CF-0012-REG	01 JUL 2014	11:33	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0013	FFOR-EXC-12-DS-FFOR-CF-0013-REG	01 JUL 2014	11:41	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0013	FFOR-EXC-12-DS-FFOR-CF-0013-REG	01 JUL 2014	11:41	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0014	FFOR-EXC-13-DS-FFOR-CF-0014-REG	01 JUL 2014	11:51	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0014	FFOR-EXC-13-DS-FFOR-CF-0014-REG	01 JUL 2014	11:51	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0015	FFOR-EXC-14-DS-FFOR-CF-0015-REG	01 JUL 2014	14:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-007
FFOR-CF-0015	FFOR-EXC-14-DS-FFOR-CF-0015-REG	01 JUL 2014	14:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 16, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407139

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/2/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Website: www.hallenvironmental.com

Case Narrative

WO#: **1407139**
Date: **7/16/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.
HEAL samples numbers -001 and -004 were brought to a final volume of 2mls due to sample matrix.
HEAL sample number -009 was brought to a final volume of 10 mls due to sample matrix.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0016
Project: Kirtland AFB
Collection Date: 7/2/2014 12:17:00 PM
Lab ID: 1407139-001
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/7/2014 12:31:49 PM	14054
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/7/2014 12:31:49 PM	14054
Surr: DNOP	81.2	0	57.9-140		%REC	1	7/7/2014 12:31:49 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.8	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.9	0.20	0.27		mg/Kg-dr	1	7/7/2014 1:47:42 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Acenaphthylene	ND	0.11	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Aniline	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Anthracene	ND	0.093	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Benz(a)anthracene	0.24	0.12	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Benzo(a)pyrene	0.16	0.13	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Benzo(b)fluoranthene	0.26	0.15	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Benzo(g,h,i)perylene	0.14	0.13	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Benzo(k)fluoranthene	ND	0.16	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Bis(2-chloroethoxy)methane	ND	0.15	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Bis(2-chloroethyl)ether	ND	0.17	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.080	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Bromophenyl phenyl ether	ND	0.11	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Butyl benzyl phthalate	ND	0.092	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Carbazole	ND	0.097	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Chloronaphthalene	ND	0.12	0.54		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Chlorophenol	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Chlorophenyl phenyl ether	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Chrysene	0.19	0.11	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Di-n-butyl phthalate	ND	0.097	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Di-n-octyl phthalate	ND	0.54	0.86		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Dibenz(a,h)anthracene	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Dibenzofuran	ND	0.14	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
1,2-Dichlorobenzene	ND	0.084	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
1,3-Dichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
1,4-Dichlorobenzene	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
3,3´-Dichlorobenzidine	ND	0.12	0.54		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0016
Project: Kirtland AFB
Collection Date: 7/2/2014 12:17:00 PM
Lab ID: 1407139-001
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.097	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Dimethyl phthalate	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4-Dichlorophenol	ND	0.13	0.86		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4-Dimethylphenol	ND	0.13	0.65		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.088	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Fluoranthene	0.28	0.097	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Fluorene	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Hexachlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Hexachlorobutadiene	ND	0.10	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Hexachlorocyclopentadiene	ND	0.14	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Hexachloroethane	ND	0.15	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.14	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Methylnaphthalene	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
3+4-Methylphenol	ND	0.15	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
N-Nitrosodi-n-propylamine	ND	0.14	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
N-Nitrosodimethylamine	ND	0.16	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
N-Nitrosodiphenylamine	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Naphthalene	ND	0.10	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Nitroaniline	ND	0.10	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
3-Nitroaniline	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Nitroaniline	ND	0.10	0.86		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2-Nitrophenol	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
4-Nitrophenol	ND	0.13	0.54		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Pentachlorophenol	ND	0.18	0.86		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Phenanthrene	0.14	0.078	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Phenol	ND	0.13	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Pyrene	0.25	0.12	0.43	J	mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
1,2,4-Trichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4,5-Trichlorophenol	ND	0.096	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
2,4,6-Trichlorophenol	ND	0.12	0.43		mg/Kg-dr	1	7/7/2014 2:52:11 PM	14071
Surr: 2-Fluorophenol	87.9		27.9-127		%REC	1	7/7/2014 2:52:11 PM	14071
Surr: Phenol-d5	84.2		24.5-126		%REC	1	7/7/2014 2:52:11 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0016
Project: Kirtland AFB
Collection Date: 7/2/2014 12:17:00 PM
Lab ID: 1407139-001
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	48.4		27.6-136		%REC	1	7/7/2014 2:52:11 PM	14071
Surr: Nitrobenzene-d5	90.2		23.5-128		%REC	1	7/7/2014 2:52:11 PM	14071
Surr: 2-Fluorobiphenyl	90.0		22.6-132		%REC	1	7/7/2014 2:52:11 PM	14071
Surr: 4-Terphenyl-d14	82.4		28.1-128		%REC	1	7/7/2014 2:52:11 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Toluene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Ethylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Xylenes, Total	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2,4-Trimethylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,3,5-Trimethylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Naphthalene	ND	0.00160	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Acetone	0.00836	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Bromobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Bromodichloromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Bromoform	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Bromomethane	0.000862	0.000802	0.00401	J	mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
2-Butanone	ND	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Carbon tetrachloride	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Chlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Chloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Chloroform	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Chloromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
2-Chlorotoluene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Carbon disulfide	ND	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
4-Chlorotoluene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
cis-1,2-DCE	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
cis-1,3-Dichloropropene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Dibromochloromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Dibromomethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2-Dichlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,3-Dichlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,4-Dichlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Dichlorodifluoromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1-Dichloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0016
Project: Kirtland AFB
Collection Date: 7/2/2014 12:17:00 PM
Lab ID: 1407139-001
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2-Dichloropropane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,3-Dichloropropane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
2,2-Dichloropropane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1-Dichloropropene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Hexachlorobutadiene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Isopropylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
4-Isopropyltoluene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Methylene chloride	ND	0.00160	0.00401		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
n-Butylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
2-Hexanone	ND	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
n-Propylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
sec-Butylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Styrene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
4-Methyl-2-pentanone	ND	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
tert-Butylbenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Tetrachloroethene (PCE)	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
trans-1,2-DCE	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
trans-1,3-Dichloropropene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2,3-Trichlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2,4-Trichlorobenzene	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1,1-Trichloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,1,2-Trichloroethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Trichloroethene (TCE)	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Trichlorofluoromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
1,2,3-Trichloropropane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Vinyl chloride	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Vinyl acetate	ND	0.00802	0.00802		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Bromochloromethane	ND	0.000802	0.00160		mg/Kg-dr	1	7/2/2014 6:05:57 PM	14027
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	7/2/2014 6:05:57 PM	14027
Surr: 4-Bromofluorobenzene	102	0	65.3-135		%REC	1	7/2/2014 6:05:57 PM	14027
Surr: Dibromofluoromethane	82.3	0	70-130		%REC	1	7/2/2014 6:05:57 PM	14027
Surr: Toluene-d8	98.2	0	70-130		%REC	1	7/2/2014 6:05:57 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.54	4.2		mg/Kg-dr	1	7/9/2014 3:33:51 PM	R19795
Surr: BFB	115	0	61.2-137		%REC	1	7/9/2014 3:33:51 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0017
Project: Kirtland AFB
Collection Date: 7/2/2014 12:28:00 PM
Lab ID: 1407139-002
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	7/7/2014 2:05:27 PM	14054
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/7/2014 2:05:27 PM	14054
Surr: DNOP	79.0	0	57.9-140		%REC	1	7/7/2014 2:05:27 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	1.6	0.20	0.27		mg/Kg-dr	1	7/7/2014 1:55:20 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Aniline	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Benz(a)anthracene	0.10	0.061	0.22	J	mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Benzo(b)fluoranthene	ND	0.077	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Bis(2-chloroethyl)ether	ND	0.090	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.075	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Chrysene	ND	0.057	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Di-n-butyl phthalate	ND	0.050	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
1,2-Dichlorobenzene	ND	0.044	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0017
Project: Kirtland AFB
Collection Date: 7/2/2014 12:28:00 PM
Lab ID: 1407139-002
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4-Dinitrotoluene	ND	0.082	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,6-Dinitrotoluene	ND	0.066	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Hexachlorobutadiene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Isophorone	ND	0.073	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Nitrobenzene	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Phenol	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
1,2,4-Trichlorobenzene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:20:34 PM	14071
Surr: 2-Fluorophenol	54.2		27.9-127		%REC	1	7/7/2014 4:20:34 PM	14071
Surr: Phenol-d5	59.4		24.5-126		%REC	1	7/7/2014 4:20:34 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0017
Project: Kirtland AFB
Collection Date: 7/2/2014 12:28:00 PM
Lab ID: 1407139-002
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	41.6		27.6-136		%REC	1	7/7/2014 4:20:34 PM	14071
Surr: Nitrobenzene-d5	60.7		23.5-128		%REC	1	7/7/2014 4:20:34 PM	14071
Surr: 2-Fluorobiphenyl	58.3		22.6-132		%REC	1	7/7/2014 4:20:34 PM	14071
Surr: 4-Terphenyl-d14	64.2		28.1-128		%REC	1	7/7/2014 4:20:34 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Toluene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Ethylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Xylenes, Total	ND	0.00139	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2,4-Trimethylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,3,5-Trimethylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Naphthalene	ND	0.00139	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Acetone	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Bromobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Bromodichloromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Bromoform	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Bromomethane	0.000729	0.000696	0.00348	J	mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
2-Butanone	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Carbon tetrachloride	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Chlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Chloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Chloroform	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Chloromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
2-Chlorotoluene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Carbon disulfide	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
4-Chlorotoluene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
cis-1,2-DCE	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
cis-1,3-Dichloropropene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Dibromochloromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Dibromomethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2-Dichlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,3-Dichlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,4-Dichlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Dichlorodifluoromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1-Dichloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0017
Project: Kirtland AFB
Collection Date: 7/2/2014 12:28:00 PM
Lab ID: 1407139-002
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2-Dichloropropane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,3-Dichloropropane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
2,2-Dichloropropane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1-Dichloropropene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Hexachlorobutadiene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Isopropylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
4-Isopropyltoluene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Methylene chloride	ND	0.00139	0.00348		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
n-Butylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
2-Hexanone	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
n-Propylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
sec-Butylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Styrene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
4-Methyl-2-pentanone	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
tert-Butylbenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Tetrachloroethene (PCE)	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
trans-1,2-DCE	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
trans-1,3-Dichloropropene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2,3-Trichlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2,4-Trichlorobenzene	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1,1-Trichloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,1,2-Trichloroethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Trichloroethene (TCE)	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Trichlorofluoromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
1,2,3-Trichloropropane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Vinyl chloride	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Vinyl acetate	ND	0.00696	0.00696		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Bromochloromethane	ND	0.000696	0.00139		mg/Kg-dr	1	7/2/2014 6:35:39 PM	14027
Surr: 1,2-Dichloroethane-d4	99.8	0	70-130		%REC	1	7/2/2014 6:35:39 PM	14027
Surr: 4-Bromofluorobenzene	95.8	0	65.3-135		%REC	1	7/2/2014 6:35:39 PM	14027
Surr: Dibromofluoromethane	84.9	0	70-130		%REC	1	7/2/2014 6:35:39 PM	14027
Surr: Toluene-d8	99.4	0	70-130		%REC	1	7/2/2014 6:35:39 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.56	4.3		mg/Kg-dr	1	7/9/2014 4:58:28 PM	R19795
Surr: BFB	110	0	61.2-137		%REC	1	7/9/2014 4:58:28 PM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0018
Project: Kirtland AFB
Collection Date: 7/2/2014 12:40:00 PM
Lab ID: 1407139-003
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	7/7/2014 2:37:08 PM	14054
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/7/2014 2:37:08 PM	14054
Surr: DNOP	80.7	0	57.9-140		%REC	1	7/7/2014 2:37:08 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	1.9	0.21	0.28		mg/Kg-dr	1	7/7/2014 1:56:36 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Aniline	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Benz(a)anthracene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Benzo(b)fluoranthene	ND	0.077	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.075	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Chrysene	ND	0.057	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Di-n-butyl phthalate	ND	0.050	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0018
Project: Kirtland AFB
Collection Date: 7/2/2014 12:40:00 PM
Lab ID: 1407139-003
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4-Dinitrotoluene	ND	0.082	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,6-Dinitrotoluene	ND	0.066	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Isophorone	ND	0.073	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Nitrobenzene	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Pentachlorophenol	ND	0.090	0.45		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Phenol	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 4:50:02 PM	14071
Surr: 2-Fluorophenol	64.0		27.9-127		%REC	1	7/7/2014 4:50:02 PM	14071
Surr: Phenol-d5	67.0		24.5-126		%REC	1	7/7/2014 4:50:02 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0018
Project: Kirtland AFB
Collection Date: 7/2/2014 12:40:00 PM
Lab ID: 1407139-003
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	43.4		27.6-136		%REC	1	7/7/2014 4:50:02 PM	14071
Surr: Nitrobenzene-d5	69.5		23.5-128		%REC	1	7/7/2014 4:50:02 PM	14071
Surr: 2-Fluorobiphenyl	69.5		22.6-132		%REC	1	7/7/2014 4:50:02 PM	14071
Surr: 4-Terphenyl-d14	66.0		28.1-128		%REC	1	7/7/2014 4:50:02 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Toluene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Ethylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Xylenes, Total	ND	0.00149	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2,4-Trimethylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,3,5-Trimethylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Naphthalene	ND	0.00149	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Acetone	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Bromobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Bromodichloromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Bromoform	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Bromomethane	0.000821	0.000747	0.00373	J	mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
2-Butanone	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Carbon tetrachloride	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Chlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Chloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Chloroform	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Chloromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
2-Chlorotoluene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Carbon disulfide	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
4-Chlorotoluene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
cis-1,2-DCE	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
cis-1,3-Dichloropropene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Dibromochloromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Dibromomethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2-Dichlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,3-Dichlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,4-Dichlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Dichlorodifluoromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1-Dichloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0018
Project: Kirtland AFB
Collection Date: 7/2/2014 12:40:00 PM
Lab ID: 1407139-003
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2-Dichloropropane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,3-Dichloropropane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
2,2-Dichloropropane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1-Dichloropropene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Hexachlorobutadiene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Isopropylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
4-Isopropyltoluene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Methylene chloride	ND	0.00149	0.00373		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
n-Butylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
2-Hexanone	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
n-Propylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
sec-Butylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Styrene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
4-Methyl-2-pentanone	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
tert-Butylbenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Tetrachloroethene (PCE)	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
trans-1,2-DCE	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
trans-1,3-Dichloropropene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2,3-Trichlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2,4-Trichlorobenzene	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1,1-Trichloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,1,2-Trichloroethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Trichloroethene (TCE)	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Trichlorofluoromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
1,2,3-Trichloropropane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Vinyl chloride	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Vinyl acetate	ND	0.00747	0.00747		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Bromochloromethane	ND	0.000747	0.00149		mg/Kg-dr	1	7/2/2014 7:05:26 PM	14027
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	7/2/2014 7:05:26 PM	14027
Surr: 4-Bromofluorobenzene	97.0	0	65.3-135		%REC	1	7/2/2014 7:05:26 PM	14027
Surr: Dibromofluoromethane	86.8	0	70-130		%REC	1	7/2/2014 7:05:26 PM	14027
Surr: Toluene-d8	102	0	70-130		%REC	1	7/2/2014 7:05:26 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.50	3.8		mg/Kg-dr	1	7/9/2014 5:26:35 PM	R19795
Surr: BFB	112	0	61.2-137		%REC	1	7/9/2014 5:26:35 PM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0019
Project: Kirtland AFB
Collection Date: 7/2/2014 12:50:00 PM
Lab ID: 1407139-004
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	7/7/2014 3:08:28 PM	14054
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/7/2014 3:08:28 PM	14054
Surr: DNOP	77.8	0	57.9-140		%REC	1	7/7/2014 3:08:28 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.9	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	5.3	0.20	0.27		mg/Kg-dr	1	7/7/2014 1:57:50 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Aniline	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Anthracene	ND	0.095	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Benz(a)anthracene	0.21	0.12	0.44	J	mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Benzo(a)pyrene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Benzo(b)fluoranthene	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Benzo(g,h,i)perylene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Bis(2-chloroethyl)ether	ND	0.18	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.082	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Butyl benzyl phthalate	ND	0.093	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Carbazole	ND	0.098	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Chloronaphthalene	ND	0.13	0.55		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Chlorophenyl phenyl ether	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Chrysene	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Di-n-butyl phthalate	ND	0.099	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Di-n-octyl phthalate	ND	0.55	0.88		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
1,2-Dichlorobenzene	ND	0.086	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
3,3´-Dichlorobenzidine	ND	0.12	0.55		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0019
Project: Kirtland AFB
Collection Date: 7/2/2014 12:50:00 PM
Lab ID: 1407139-004
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.099	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4-Dichlorophenol	ND	0.14	0.88		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4-Dimethylphenol	ND	0.13	0.66		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.090	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Fluoranthene	ND	0.098	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Hexachlorobutadiene	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Methylnaphthalene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Methylphenol	ND	0.13	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
N-Nitrosodi-n-propylamine	ND	0.15	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
N-Nitrosodimethylamine	ND	0.17	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Naphthalene	ND	0.10	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Nitroaniline	ND	0.11	0.88		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
4-Nitrophenol	ND	0.14	0.55		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Pentachlorophenol	ND	0.18	0.88		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Phenanthrene	ND	0.080	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Phenol	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Pyrene	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4,5-Trichlorophenol	ND	0.097	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	7/7/2014 5:19:32 PM	14071
Surr: 2-Fluorophenol	85.2		27.9-127		%REC	1	7/7/2014 5:19:32 PM	14071
Surr: Phenol-d5	83.8		24.5-126		%REC	1	7/7/2014 5:19:32 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0019
Project: Kirtland AFB
Collection Date: 7/2/2014 12:50:00 PM
Lab ID: 1407139-004
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	52.7		27.6-136		%REC	1	7/7/2014 5:19:32 PM	14071
Surr: Nitrobenzene-d5	91.3		23.5-128		%REC	1	7/7/2014 5:19:32 PM	14071
Surr: 2-Fluorobiphenyl	93.9		22.6-132		%REC	1	7/7/2014 5:19:32 PM	14071
Surr: 4-Terphenyl-d14	82.8		28.1-128		%REC	1	7/7/2014 5:19:32 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Toluene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Ethylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Xylenes, Total	ND	0.00138	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2,4-Trimethylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,3,5-Trimethylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Naphthalene	ND	0.00138	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Acetone	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Bromobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Bromodichloromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Bromoform	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Bromomethane	ND	0.000688	0.00344		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
2-Butanone	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Carbon tetrachloride	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Chlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Chloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Chloroform	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Chloromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
2-Chlorotoluene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Carbon disulfide	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
4-Chlorotoluene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
cis-1,2-DCE	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
cis-1,3-Dichloropropene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Dibromochloromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Dibromomethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2-Dichlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,3-Dichlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,4-Dichlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Dichlorodifluoromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1-Dichloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0019
Project: Kirtland AFB
Collection Date: 7/2/2014 12:50:00 PM
Lab ID: 1407139-004
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2-Dichloropropane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,3-Dichloropropane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
2,2-Dichloropropane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1-Dichloropropene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Hexachlorobutadiene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Isopropylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
4-Isopropyltoluene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Methylene chloride	ND	0.00138	0.00344		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
n-Butylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
2-Hexanone	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
n-Propylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
sec-Butylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Styrene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
4-Methyl-2-pentanone	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
tert-Butylbenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Tetrachloroethene (PCE)	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
trans-1,2-DCE	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
trans-1,3-Dichloropropene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2,3-Trichlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2,4-Trichlorobenzene	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1,1-Trichloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,1,2-Trichloroethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Trichloroethene (TCE)	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Trichlorofluoromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
1,2,3-Trichloropropane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Vinyl chloride	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Vinyl acetate	ND	0.00688	0.00688		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Bromochloromethane	ND	0.000688	0.00138		mg/Kg-dr	1	7/2/2014 7:35:07 PM	14027
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	7/2/2014 7:35:07 PM	14027
Surr: 4-Bromofluorobenzene	95.5	0	65.3-135		%REC	1	7/2/2014 7:35:07 PM	14027
Surr: Dibromofluoromethane	78.9	0	70-130		%REC	1	7/2/2014 7:35:07 PM	14027
Surr: Toluene-d8	103	0	70-130		%REC	1	7/2/2014 7:35:07 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.51	3.9		mg/Kg-dr	1	7/9/2014 5:54:44 PM	R19795
Surr: BFB	108	0	61.2-137		%REC	1	7/9/2014 5:54:44 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0020
Project: Kirtland AFB
Collection Date: 7/2/2014 1:43:00 PM
Lab ID: 1407139-005
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.4	12		mg/Kg-dr	1	7/7/2014 3:40:02 PM	14054
Motor Oil Range Organics (MRO)	ND	58	58		mg/Kg-dr	1	7/7/2014 3:40:02 PM	14054
Surr: DNOP	78.9	0	57.9-140		%REC	1	7/7/2014 3:40:02 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	14	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	3.5	0.21	0.29		mg/Kg-dr	1	7/7/2014 1:59:05 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Acenaphthylene	ND	0.057	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Aniline	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Anthracene	ND	0.051	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Benz(a)anthracene	ND	0.063	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Benzo(a)pyrene	ND	0.070	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Benzo(b)fluoranthene	ND	0.080	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Benzo(g,h,i)perylene	ND	0.071	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Benzo(k)fluoranthene	ND	0.089	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Bis(2-chloroethoxy)methane	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Bis(2-chloroethyl)ether	ND	0.094	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.043	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.079	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Bromophenyl phenyl ether	ND	0.059	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Butyl benzyl phthalate	ND	0.050	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Carbazole	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Chloro-3-methylphenol	ND	0.062	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Chloroaniline	ND	0.062	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Chloronaphthalene	ND	0.067	0.29		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Chlorophenol	ND	0.073	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Chlorophenyl phenyl ether	ND	0.066	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Chrysene	ND	0.059	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Di-n-butyl phthalate	ND	0.053	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Di-n-octyl phthalate	ND	0.29	0.47		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Dibenz(a,h)anthracene	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Dibenzofuran	ND	0.078	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
1,2-Dichlorobenzene	ND	0.046	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
1,3-Dichlorobenzene	ND	0.066	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
1,4-Dichlorobenzene	ND	0.072	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
3,3´-Dichlorobenzidine	ND	0.065	0.29		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0020
Project: Kirtland AFB
Collection Date: 7/2/2014 1:43:00 PM
Lab ID: 1407139-005
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Dimethyl phthalate	ND	0.065	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4-Dichlorophenol	ND	0.072	0.47		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4-Dimethylphenol	ND	0.070	0.35		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.048	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4-Dinitrophenol	ND	0.082	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4-Dinitrotoluene	ND	0.086	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,6-Dinitrotoluene	ND	0.069	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Fluoranthene	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Fluorene	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Hexachlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Hexachlorobutadiene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Hexachlorocyclopentadiene	ND	0.076	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Hexachloroethane	ND	0.082	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.077	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Isophorone	ND	0.077	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Methylnaphthalene	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Methylphenol	ND	0.067	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
3+4-Methylphenol	0.079	0.079	0.23	J	mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
N-Nitrosodi-n-propylamine	ND	0.077	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
N-Nitrosodimethylamine	ND	0.088	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
N-Nitrosodiphenylamine	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Naphthalene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Nitroaniline	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
3-Nitroaniline	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Nitroaniline	ND	0.056	0.47		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Nitrobenzene	ND	0.065	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2-Nitrophenol	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
4-Nitrophenol	ND	0.072	0.29		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Pentachlorophenol	ND	0.095	0.47		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Phenanthrene	ND	0.042	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Phenol	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Pyrene	ND	0.063	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Pyridine	ND	0.065	0.58		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
1,2,4-Trichlorobenzene	ND	0.067	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4,5-Trichlorophenol	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
2,4,6-Trichlorophenol	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 5:48:58 PM	14071
Surr: 2-Fluorophenol	52.2		27.9-127		%REC	1	7/7/2014 5:48:58 PM	14071
Surr: Phenol-d5	61.2		24.5-126		%REC	1	7/7/2014 5:48:58 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0020
Project: Kirtland AFB
Collection Date: 7/2/2014 1:43:00 PM
Lab ID: 1407139-005
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	46.6		27.6-136		%REC	1	7/7/2014 5:48:58 PM	14071
Surr: Nitrobenzene-d5	62.5		23.5-128		%REC	1	7/7/2014 5:48:58 PM	14071
Surr: 2-Fluorobiphenyl	64.3		22.6-132		%REC	1	7/7/2014 5:48:58 PM	14071
Surr: 4-Terphenyl-d14	68.5		28.1-128		%REC	1	7/7/2014 5:48:58 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.000844	0.000726	0.00145	J	mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Toluene	0.00129	0.000726	0.00145	J	mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Ethylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Xylenes, Total	ND	0.00145	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2,4-Trimethylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,3,5-Trimethylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Naphthalene	ND	0.00145	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Acetone	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Bromobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Bromodichloromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Bromoform	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Bromomethane	0.000804	0.000726	0.00363	J	mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
2-Butanone	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Carbon tetrachloride	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Chlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Chloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Chloroform	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Chloromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
2-Chlorotoluene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Carbon disulfide	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
4-Chlorotoluene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
cis-1,2-DCE	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
cis-1,3-Dichloropropene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Dibromochloromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Dibromomethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2-Dichlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,3-Dichlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,4-Dichlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Dichlorodifluoromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1-Dichloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0020
Project: Kirtland AFB
Collection Date: 7/2/2014 1:43:00 PM
Lab ID: 1407139-005
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2-Dichloropropane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,3-Dichloropropane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
2,2-Dichloropropane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1-Dichloropropene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Hexachlorobutadiene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Isopropylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
4-Isopropyltoluene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Methylene chloride	ND	0.00145	0.00363		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
n-Butylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
2-Hexanone	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
n-Propylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
sec-Butylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Styrene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
4-Methyl-2-pentanone	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
tert-Butylbenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Tetrachloroethene (PCE)	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
trans-1,2-DCE	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
trans-1,3-Dichloropropene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2,3-Trichlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2,4-Trichlorobenzene	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1,1-Trichloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,1,2-Trichloroethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Trichloroethene (TCE)	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Trichlorofluoromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
1,2,3-Trichloropropane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Vinyl chloride	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Vinyl acetate	ND	0.00726	0.00726		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Bromochloromethane	ND	0.000726	0.00145		mg/Kg-dr	1	7/2/2014 8:04:54 PM	14027
Surr: 1,2-Dichloroethane-d4	98.7	0	70-130		%REC	1	7/2/2014 8:04:54 PM	14027
Surr: 4-Bromofluorobenzene	98.8	0	65.3-135		%REC	1	7/2/2014 8:04:54 PM	14027
Surr: Dibromofluoromethane	85.0	0	70-130		%REC	1	7/2/2014 8:04:54 PM	14027
Surr: Toluene-d8	105	0	70-130		%REC	1	7/2/2014 8:04:54 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.52	4.0		mg/Kg-dr	1	7/9/2014 6:22:52 PM	R19795
Surr: BFB	105	0	61.2-137		%REC	1	7/9/2014 6:22:52 PM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0021
Project: Kirtland AFB
Collection Date: 7/2/2014 3:07:00 PM
Lab ID: 1407139-006
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.6	12		mg/Kg-dr	1	7/7/2014 4:11:36 PM	14054
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/7/2014 4:11:36 PM	14054
Surr: DNOP	78.3	0	57.9-140		%REC	1	7/7/2014 4:11:36 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	15	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	1.3	0.21	0.29		mg/Kg-dr	1	7/7/2014 2:00:24 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Acenaphthylene	ND	0.057	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Aniline	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Anthracene	ND	0.051	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Benz(a)anthracene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Benzo(a)pyrene	ND	0.071	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Benzo(b)fluoranthene	ND	0.081	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Benzo(g,h,i)perylene	ND	0.071	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Benzo(k)fluoranthene	ND	0.089	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Bis(2-chloroethoxy)methane	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Bis(2-chloroethyl)ether	ND	0.094	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.044	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.079	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Bromophenyl phenyl ether	ND	0.059	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Butyl benzyl phthalate	ND	0.050	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Carbazole	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Chloro-3-methylphenol	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Chloroaniline	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Chloronaphthalene	ND	0.067	0.29		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Chlorophenol	ND	0.073	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Chlorophenyl phenyl ether	ND	0.067	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Chrysene	ND	0.060	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Di-n-butyl phthalate	ND	0.053	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Di-n-octyl phthalate	ND	0.29	0.47		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Dibenz(a,h)anthracene	ND	0.070	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Dibenzofuran	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
1,2-Dichlorobenzene	ND	0.046	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
1,3-Dichlorobenzene	ND	0.066	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
1,4-Dichlorobenzene	ND	0.073	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
3,3´-Dichlorobenzidine	ND	0.065	0.29		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0021
Project: Kirtland AFB
Collection Date: 7/2/2014 3:07:00 PM
Lab ID: 1407139-006
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Dimethyl phthalate	ND	0.065	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4-Dichlorophenol	ND	0.072	0.47		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4-Dimethylphenol	ND	0.070	0.35		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.048	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4-Dinitrophenol	ND	0.083	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4-Dinitrotoluene	ND	0.087	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,6-Dinitrotoluene	ND	0.070	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Fluoranthene	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Fluorene	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Hexachlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Hexachlorobutadiene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Hexachlorocyclopentadiene	ND	0.076	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Hexachloroethane	ND	0.082	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.078	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Isophorone	ND	0.077	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Methylnaphthalene	ND	0.070	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Methylphenol	ND	0.067	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
3+4-Methylphenol	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
N-Nitrosodi-n-propylamine	ND	0.078	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
N-Nitrosodimethylamine	ND	0.089	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
N-Nitrosodiphenylamine	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Naphthalene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Nitroaniline	ND	0.057	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
3-Nitroaniline	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Nitroaniline	ND	0.056	0.47		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Nitrobenzene	ND	0.066	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2-Nitrophenol	ND	0.065	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
4-Nitrophenol	ND	0.072	0.29		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Pentachlorophenol	ND	0.095	0.47		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Phenanthrene	ND	0.043	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Phenol	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Pyrene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Pyridine	ND	0.065	0.59		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
1,2,4-Trichlorobenzene	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4,5-Trichlorophenol	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
2,4,6-Trichlorophenol	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 6:47:53 PM	14071
Surr: 2-Fluorophenol	61.5		27.9-127		%REC	1	7/7/2014 6:47:53 PM	14071
Surr: Phenol-d5	68.9		24.5-126		%REC	1	7/7/2014 6:47:53 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0021
Project: Kirtland AFB
Collection Date: 7/2/2014 3:07:00 PM
Lab ID: 1407139-006
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	44.8		27.6-136		%REC	1	7/7/2014 6:47:53 PM	14071
Surr: Nitrobenzene-d5	73.9		23.5-128		%REC	1	7/7/2014 6:47:53 PM	14071
Surr: 2-Fluorobiphenyl	75.6		22.6-132		%REC	1	7/7/2014 6:47:53 PM	14071
Surr: 4-Terphenyl-d14	74.1		28.1-128		%REC	1	7/7/2014 6:47:53 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Toluene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Ethylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Xylenes, Total	ND	0.00164	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2,4-Trimethylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,3,5-Trimethylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Naphthalene	ND	0.00164	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Acetone	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Bromobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Bromodichloromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Bromoform	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Bromomethane	0.000839	0.000818	0.00409	J	mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
2-Butanone	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Carbon tetrachloride	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Chlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Chloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Chloroform	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Chloromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
2-Chlorotoluene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Carbon disulfide	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
4-Chlorotoluene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
cis-1,2-DCE	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
cis-1,3-Dichloropropene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Dibromochloromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Dibromomethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2-Dichlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,3-Dichlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,4-Dichlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Dichlorodifluoromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1-Dichloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0021
Project: Kirtland AFB
Collection Date: 7/2/2014 3:07:00 PM
Lab ID: 1407139-006
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2-Dichloropropane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,3-Dichloropropane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
2,2-Dichloropropane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1-Dichloropropene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Hexachlorobutadiene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Isopropylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
4-Isopropyltoluene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Methylene chloride	ND	0.00164	0.00409		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
n-Butylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
2-Hexanone	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
n-Propylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
sec-Butylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Styrene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
4-Methyl-2-pentanone	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
tert-Butylbenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Tetrachloroethene (PCE)	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
trans-1,2-DCE	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
trans-1,3-Dichloropropene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2,3-Trichlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2,4-Trichlorobenzene	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1,1-Trichloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,1,2-Trichloroethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Trichloroethene (TCE)	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Trichlorofluoromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
1,2,3-Trichloropropane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Vinyl chloride	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Vinyl acetate	ND	0.00818	0.00818		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Bromochloromethane	ND	0.000818	0.00164		mg/Kg-dr	1	7/2/2014 8:34:45 PM	14027
Surr: 1,2-Dichloroethane-d4	104	0	70-130		%REC	1	7/2/2014 8:34:45 PM	14027
Surr: 4-Bromofluorobenzene	96.2	0	65.3-135		%REC	1	7/2/2014 8:34:45 PM	14027
Surr: Dibromofluoromethane	79.8	0	70-130		%REC	1	7/2/2014 8:34:45 PM	14027
Surr: Toluene-d8	96.1	0	70-130		%REC	1	7/2/2014 8:34:45 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.60	4.6		mg/Kg-dr	1	7/9/2014 6:50:54 PM	R19795
Surr: BFB	110	0	61.2-137		%REC	1	7/9/2014 6:50:54 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0022
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-007
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.4	12		mg/Kg-dr	1	7/7/2014 4:43:13 PM	14054
Motor Oil Range Organics (MRO)	ND	58	58		mg/Kg-dr	1	7/7/2014 4:43:13 PM	14054
Surr: DNOP	70.0	0	57.9-140		%REC	1	7/7/2014 4:43:13 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	15	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	1.1	0.21	0.29		mg/Kg-dr	1	7/7/2014 2:01:38 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Acenaphthylene	ND	0.057	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Aniline	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Anthracene	ND	0.051	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Benz(a)anthracene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Benzo(a)pyrene	ND	0.071	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Benzo(b)fluoranthene	ND	0.080	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Benzo(g,h,i)perylene	ND	0.071	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Benzo(k)fluoranthene	ND	0.089	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Bis(2-chloroethoxy)methane	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Bis(2-chloroethyl)ether	ND	0.094	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.044	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.079	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Bromophenyl phenyl ether	ND	0.059	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Butyl benzyl phthalate	ND	0.050	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Carbazole	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Chloro-3-methylphenol	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Chloroaniline	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Chloronaphthalene	ND	0.067	0.29		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Chlorophenol	ND	0.073	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Chlorophenyl phenyl ether	ND	0.066	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Chrysene	ND	0.060	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Di-n-butyl phthalate	ND	0.053	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Di-n-octyl phthalate	ND	0.29	0.47		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Dibenz(a,h)anthracene	ND	0.070	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Dibenzofuran	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
1,2-Dichlorobenzene	ND	0.046	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
1,3-Dichlorobenzene	ND	0.066	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
1,4-Dichlorobenzene	ND	0.073	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
3,3´-Dichlorobenzidine	ND	0.065	0.29		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0022
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-007
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Dimethyl phthalate	ND	0.065	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4-Dichlorophenol	ND	0.072	0.47		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4-Dimethylphenol	ND	0.070	0.35		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.048	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4-Dinitrophenol	ND	0.083	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4-Dinitrotoluene	ND	0.086	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,6-Dinitrotoluene	ND	0.070	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Fluoranthene	ND	0.053	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Fluorene	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Hexachlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Hexachlorobutadiene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Hexachlorocyclopentadiene	ND	0.076	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Hexachloroethane	ND	0.082	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.078	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Isophorone	ND	0.077	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Methylnaphthalene	ND	0.070	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Methylphenol	ND	0.067	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
3+4-Methylphenol	ND	0.079	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
N-Nitrosodi-n-propylamine	ND	0.078	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
N-Nitrosodimethylamine	ND	0.089	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
N-Nitrosodiphenylamine	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Naphthalene	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Nitroaniline	ND	0.056	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
3-Nitroaniline	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Nitroaniline	ND	0.056	0.47		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Nitrobenzene	ND	0.065	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2-Nitrophenol	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
4-Nitrophenol	ND	0.072	0.29		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Pentachlorophenol	ND	0.095	0.47		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Phenanthrene	ND	0.042	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Phenol	ND	0.069	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Pyrene	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Pyridine	ND	0.065	0.59		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
1,2,4-Trichlorobenzene	ND	0.068	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4,5-Trichlorophenol	ND	0.052	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
2,4,6-Trichlorophenol	ND	0.064	0.23		mg/Kg-dr	1	7/7/2014 12:25:22 PM	14071
Surr: 2-Fluorophenol	71.6		27.9-127		%REC	1	7/7/2014 12:25:22 PM	14071
Surr: Phenol-d5	70.1		24.5-126		%REC	1	7/7/2014 12:25:22 PM	14071

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0022
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-007
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	55.0		27.6-136		%REC	1	7/7/2014 12:25:22 PM	14071
Surr: Nitrobenzene-d5	72.5		23.5-128		%REC	1	7/7/2014 12:25:22 PM	14071
Surr: 2-Fluorobiphenyl	71.5		22.6-132		%REC	1	7/7/2014 12:25:22 PM	14071
Surr: 4-Terphenyl-d14	68.4		28.1-128		%REC	1	7/7/2014 12:25:22 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Toluene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Ethylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Xylenes, Total	ND	0.00178	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2,4-Trimethylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,3,5-Trimethylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Naphthalene	ND	0.00178	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Acetone	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Bromobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Bromodichloromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Bromoform	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Bromomethane	ND	0.000891	0.00445		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
2-Butanone	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Carbon tetrachloride	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Chlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Chloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Chloroform	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Chloromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
2-Chlorotoluene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Carbon disulfide	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
4-Chlorotoluene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
cis-1,2-DCE	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
cis-1,3-Dichloropropene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Dibromochloromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Dibromomethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2-Dichlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,3-Dichlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,4-Dichlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Dichlorodifluoromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1-Dichloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0022
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-007
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2-Dichloropropane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,3-Dichloropropane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
2,2-Dichloropropane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1-Dichloropropene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Hexachlorobutadiene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Isopropylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
4-Isopropyltoluene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Methylene chloride	ND	0.00178	0.00445		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
n-Butylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
2-Hexanone	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
n-Propylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
sec-Butylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Styrene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
4-Methyl-2-pentanone	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
tert-Butylbenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Tetrachloroethene (PCE)	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
trans-1,2-DCE	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
trans-1,3-Dichloropropene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2,3-Trichlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2,4-Trichlorobenzene	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1,1-Trichloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,1,2-Trichloroethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Trichloroethene (TCE)	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Trichlorofluoromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
1,2,3-Trichloropropane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Vinyl chloride	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Vinyl acetate	ND	0.00891	0.00891		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Bromochloromethane	ND	0.000891	0.00178		mg/Kg-dr	1	7/2/2014 9:04:37 PM	14027
Surr: 1,2-Dichloroethane-d4	108	0	70-130		%REC	1	7/2/2014 9:04:37 PM	14027
Surr: 4-Bromofluorobenzene	100	0	65.3-135		%REC	1	7/2/2014 9:04:37 PM	14027
Surr: Dibromofluoromethane	87.9	0	70-130		%REC	1	7/2/2014 9:04:37 PM	14027
Surr: Toluene-d8	96.9	0	70-130		%REC	1	7/2/2014 9:04:37 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.54	4.2		mg/Kg-dr	1	7/9/2014 7:18:55 PM	R19795
Surr: BFB	102	0	61.2-137		%REC	1	7/9/2014 7:18:55 PM	R19795

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0023
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-008
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	7/7/2014 5:14:53 PM	14054
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	7/7/2014 5:14:53 PM	14054
Surr: DNOP	75.4	0	57.9-140		%REC	1	7/7/2014 5:14:53 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.9	0.21	0.28		mg/Kg-dr	1	7/7/2014 2:02:54 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Acenaphthylene	ND	0.055	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Aniline	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Benz(a)anthracene	0.11	0.061	0.22	J	mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Benzo(b)fluoranthene	ND	0.077	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Bis(2-chloroethyl)ether	ND	0.090	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.042	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.075	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Butyl benzyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Chlorophenol	ND	0.070	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Chrysene	0.059	0.057	0.22	J	mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Di-n-butyl phthalate	ND	0.050	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Dibenz(a,h)anthracene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
1,2-Dichlorobenzene	ND	0.044	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0023
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-008
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4-Dinitrotoluene	ND	0.082	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,6-Dinitrotoluene	ND	0.066	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Hexachlorobutadiene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Isophorone	ND	0.073	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Nitrobenzene	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Phenanthrene	ND	0.041	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Phenol	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Pyrene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
1,2,4-Trichlorobenzene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4,5-Trichlorophenol	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 12:54:40 PM	14071
Surr: 2-Fluorophenol	70.7		27.9-127		%REC	1	7/7/2014 12:54:40 PM	14071
Surr: Phenol-d5	67.7		24.5-126		%REC	1	7/7/2014 12:54:40 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0023
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-008
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	48.2		27.6-136		%REC	1	7/7/2014 12:54:40 PM	14071
Surr: Nitrobenzene-d5	77.2		23.5-128		%REC	1	7/7/2014 12:54:40 PM	14071
Surr: 2-Fluorobiphenyl	71.2		22.6-132		%REC	1	7/7/2014 12:54:40 PM	14071
Surr: 4-Terphenyl-d14	66.5		28.1-128		%REC	1	7/7/2014 12:54:40 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Toluene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Ethylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Xylenes, Total	ND	0.00144	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2,4-Trimethylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,3,5-Trimethylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Naphthalene	ND	0.00144	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Acetone	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Bromobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Bromodichloromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Bromoform	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Bromomethane	ND	0.000722	0.00361		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
2-Butanone	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Carbon tetrachloride	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Chlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Chloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Chloroform	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Chloromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
2-Chlorotoluene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Carbon disulfide	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
4-Chlorotoluene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
cis-1,2-DCE	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
cis-1,3-Dichloropropene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Dibromochloromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Dibromomethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2-Dichlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,3-Dichlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,4-Dichlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Dichlorodifluoromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1-Dichloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0023
Project: Kirtland AFB
Collection Date: 7/2/2014 3:18:00 PM
Lab ID: 1407139-008
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2-Dichloropropane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,3-Dichloropropane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
2,2-Dichloropropane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1-Dichloropropene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Hexachlorobutadiene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Isopropylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
4-Isopropyltoluene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Methylene chloride	ND	0.00144	0.00361		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
n-Butylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
2-Hexanone	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
n-Propylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
sec-Butylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Styrene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
4-Methyl-2-pentanone	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
tert-Butylbenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Tetrachloroethene (PCE)	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
trans-1,2-DCE	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
trans-1,3-Dichloropropene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2,3-Trichlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2,4-Trichlorobenzene	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1,1-Trichloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,1,2-Trichloroethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Trichloroethene (TCE)	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Trichlorofluoromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
1,2,3-Trichloropropane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Vinyl chloride	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Vinyl acetate	ND	0.00722	0.00722		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Bromochloromethane	ND	0.000722	0.00144		mg/Kg-dr	1	7/2/2014 9:34:23 PM	14027
Surr: 1,2-Dichloroethane-d4	102	0	70-130		%REC	1	7/2/2014 9:34:23 PM	14027
Surr: 4-Bromofluorobenzene	98.9	0	65.3-135		%REC	1	7/2/2014 9:34:23 PM	14027
Surr: Dibromofluoromethane	70.4	0	70-130		%REC	1	7/2/2014 9:34:23 PM	14027
Surr: Toluene-d8	98.1	0	70-130		%REC	1	7/2/2014 9:34:23 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.53	4.0		mg/Kg-dr	1	7/9/2014 7:46:53 PM	R19795
Surr: BFB	110	0	61.2-137		%REC	1	7/9/2014 7:46:53 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0024
Project: Kirtland AFB
Collection Date: 7/2/2014 3:26:00 PM
Lab ID: 1407139-009
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	7/7/2014 7:20:54 PM	14054
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	7/7/2014 7:20:54 PM	14054
Surr: DNOP	85.7	0	57.9-140		%REC	1	7/7/2014 7:20:54 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.8	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	6.5	0.21	0.28		mg/Kg-dr	1	7/7/2014 2:04:10 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.53	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Acenaphthylene	ND	0.54	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Aniline	ND	0.65	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Anthracene	ND	0.48	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Benz(a)anthracene	1.2	0.60	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Benzo(a)pyrene	0.75	0.67	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Benzo(b)fluoranthene	1.2	0.76	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Benzo(g,h,i)perylene	0.69	0.67	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Benzo(k)fluoranthene	ND	0.84	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Bis(2-chloroethoxy)methane	ND	0.74	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Bis(2-chloroethyl)ether	ND	0.89	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.41	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.74	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Bromophenyl phenyl ether	ND	0.56	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Butyl benzyl phthalate	ND	0.47	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Carbazole	ND	0.50	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Chloro-3-methylphenol	ND	0.58	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Chloroaniline	ND	0.58	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Chloronaphthalene	ND	0.63	2.8		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Chlorophenol	ND	0.69	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Chlorophenyl phenyl ether	ND	0.63	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Chrysene	0.71	0.56	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Di-n-butyl phthalate	ND	0.50	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Di-n-octyl phthalate	ND	2.8	4.4		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Dibenz(a,h)anthracene	ND	0.66	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Dibenzofuran	ND	0.74	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
1,2-Dichlorobenzene	ND	0.43	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
1,3-Dichlorobenzene	ND	0.62	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
1,4-Dichlorobenzene	ND	0.69	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
3,3´-Dichlorobenzidine	ND	0.61	2.8		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0024
Project: Kirtland AFB
Collection Date: 7/2/2014 3:26:00 PM
Lab ID: 1407139-009
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.50	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Dimethyl phthalate	ND	0.61	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4-Dichlorophenol	ND	0.68	4.4		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4-Dimethylphenol	ND	0.66	3.3		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.45	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4-Dinitrophenol	ND	0.78	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4-Dinitrotoluene	ND	0.81	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,6-Dinitrotoluene	ND	0.66	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Fluoranthene	1.4	0.50	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Fluorene	ND	0.65	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Hexachlorobenzene	ND	0.60	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Hexachlorobutadiene	ND	0.53	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Hexachlorocyclopentadiene	ND	0.71	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Hexachloroethane	ND	0.78	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.73	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Isophorone	ND	0.72	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Methylnaphthalene	ND	0.66	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Methylphenol	ND	0.63	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
3+4-Methylphenol	ND	0.75	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
N-Nitrosodi-n-propylamine	ND	0.73	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
N-Nitrosodimethylamine	ND	0.83	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
N-Nitrosodiphenylamine	ND	0.64	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Naphthalene	ND	0.53	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Nitroaniline	ND	0.53	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
3-Nitroaniline	ND	0.64	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Nitroaniline	ND	0.53	4.4		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Nitrobenzene	ND	0.62	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2-Nitrophenol	ND	0.61	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
4-Nitrophenol	ND	0.68	2.8		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Pentachlorophenol	ND	0.90	4.4		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Phenanthrene	0.87	0.40	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Phenol	ND	0.65	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Pyrene	1.2	0.60	2.2	J	mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Pyridine	ND	0.61	5.5		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
1,2,4-Trichlorobenzene	ND	0.64	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4,5-Trichlorophenol	ND	0.49	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
2,4,6-Trichlorophenol	ND	0.60	2.2		mg/Kg-dr	1	7/7/2014 6:18:25 PM	14071
Surr: 2-Fluorophenol	94.9		27.9-127		%REC	1	7/7/2014 6:18:25 PM	14071
Surr: Phenol-d5	102		24.5-126		%REC	1	7/7/2014 6:18:25 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0024
Project: Kirtland AFB
Collection Date: 7/2/2014 3:26:00 PM
Lab ID: 1407139-009
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	69.2		27.6-136		%REC	1	7/7/2014 6:18:25 PM	14071
Surr: Nitrobenzene-d5	118		23.5-128		%REC	1	7/7/2014 6:18:25 PM	14071
Surr: 2-Fluorobiphenyl	129		22.6-132		%REC	1	7/7/2014 6:18:25 PM	14071
Surr: 4-Terphenyl-d14	135		28.1-128	S	%REC	1	7/7/2014 6:18:25 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Toluene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Ethylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Xylenes, Total	ND	0.00135	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2,4-Trimethylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,3,5-Trimethylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Naphthalene	ND	0.00135	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Acetone	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Bromobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Bromodichloromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Bromoform	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Bromomethane	ND	0.000677	0.00339		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
2-Butanone	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Carbon tetrachloride	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Chlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Chloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Chloroform	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Chloromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
2-Chlorotoluene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Carbon disulfide	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
4-Chlorotoluene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
cis-1,2-DCE	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
cis-1,3-Dichloropropene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Dibromochloromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Dibromomethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2-Dichlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,3-Dichlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,4-Dichlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Dichlorodifluoromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1-Dichloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0024
Project: Kirtland AFB
Collection Date: 7/2/2014 3:26:00 PM
Lab ID: 1407139-009
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2-Dichloropropane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,3-Dichloropropane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
2,2-Dichloropropane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1-Dichloropropene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Hexachlorobutadiene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Isopropylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
4-Isopropyltoluene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Methylene chloride	ND	0.00135	0.00339		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
n-Butylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
2-Hexanone	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
n-Propylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
sec-Butylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Styrene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
4-Methyl-2-pentanone	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
tert-Butylbenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Tetrachloroethene (PCE)	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
trans-1,2-DCE	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
trans-1,3-Dichloropropene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2,3-Trichlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2,4-Trichlorobenzene	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1,1-Trichloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,1,2-Trichloroethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Trichloroethene (TCE)	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Trichlorofluoromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
1,2,3-Trichloropropane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Vinyl chloride	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Vinyl acetate	ND	0.00677	0.00677		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Bromochloromethane	ND	0.000677	0.00135		mg/Kg-dr	1	7/2/2014 10:04:10 PM	14027
Surr: 1,2-Dichloroethane-d4	108	0	70-130		%REC	1	7/2/2014 10:04:10 PM	14027
Surr: 4-Bromofluorobenzene	98.6	0	65.3-135		%REC	1	7/2/2014 10:04:10 PM	14027
Surr: Dibromofluoromethane	76.3	0	70-130		%REC	1	7/2/2014 10:04:10 PM	14027
Surr: Toluene-d8	99.9	0	70-130		%REC	1	7/2/2014 10:04:10 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.53	4.1		mg/Kg-dr	1	7/9/2014 8:14:45 PM	R19795
Surr: BFB	105	0	61.2-137		%REC	1	7/9/2014 8:14:45 PM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0025
Project: Kirtland AFB
Collection Date: 7/2/2014 3:34:00 PM
Lab ID: 1407139-010
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.5	12		mg/Kg-dr	1	7/7/2014 8:54:25 PM	14054
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/7/2014 8:54:25 PM	14054
Surr: DNOP	87.3	0	57.9-140		%REC	1	7/7/2014 8:54:25 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	16	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	1.3	0.21	0.29		mg/Kg-dr	1	7/7/2014 2:05:26 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.057	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Acenaphthylene	ND	0.058	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Aniline	ND	0.070	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Anthracene	ND	0.051	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Benz(a)anthracene	0.11	0.064	0.24	J	mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Benzo(a)pyrene	ND	0.071	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Benzo(b)fluoranthene	ND	0.081	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Benzo(g,h,i)perylene	ND	0.072	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Benzo(k)fluoranthene	ND	0.090	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Bis(2-chloroethoxy)methane	ND	0.080	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Bis(2-chloroethyl)ether	ND	0.095	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.044	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.079	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Bromophenyl phenyl ether	ND	0.059	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Butyl benzyl phthalate	ND	0.050	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Carbazole	ND	0.053	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Chloro-3-methylphenol	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Chloroaniline	ND	0.062	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Chloronaphthalene	ND	0.068	0.30		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Chlorophenol	ND	0.073	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Chlorophenyl phenyl ether	ND	0.067	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Chrysene	ND	0.060	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Di-n-butyl phthalate	ND	0.053	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Di-n-octyl phthalate	ND	0.30	0.47		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Dibenz(a,h)anthracene	ND	0.070	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Dibenzofuran	ND	0.079	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
1,2-Dichlorobenzene	ND	0.046	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
1,3-Dichlorobenzene	ND	0.067	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
1,4-Dichlorobenzene	ND	0.073	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
3,3´-Dichlorobenzidine	ND	0.065	0.30		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0025
Project: Kirtland AFB
Collection Date: 7/2/2014 3:34:00 PM
Lab ID: 1407139-010
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.053	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Dimethyl phthalate	ND	0.066	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4-Dichlorophenol	ND	0.073	0.47		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4-Dimethylphenol	ND	0.070	0.35		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.048	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4-Dinitrophenol	ND	0.083	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4-Dinitrotoluene	ND	0.087	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,6-Dinitrotoluene	ND	0.070	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Fluoranthene	ND	0.053	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Fluorene	ND	0.069	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Hexachlorobenzene	ND	0.064	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Hexachlorobutadiene	ND	0.057	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Hexachlorocyclopentadiene	ND	0.076	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Hexachloroethane	ND	0.083	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.078	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Isophorone	ND	0.077	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Methylnaphthalene	ND	0.070	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Methylphenol	ND	0.068	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
3+4-Methylphenol	ND	0.080	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
N-Nitrosodi-n-propylamine	ND	0.078	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
N-Nitrosodimethylamine	ND	0.089	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
N-Nitrosodiphenylamine	ND	0.069	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Naphthalene	ND	0.056	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Nitroaniline	ND	0.057	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
3-Nitroaniline	ND	0.069	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Nitroaniline	ND	0.057	0.47		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Nitrobenzene	ND	0.066	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2-Nitrophenol	ND	0.065	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
4-Nitrophenol	ND	0.073	0.30		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Pentachlorophenol	ND	0.096	0.47		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Phenanthrene	ND	0.043	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Phenol	ND	0.069	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Pyrene	ND	0.064	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Pyridine	ND	0.065	0.59		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
1,2,4-Trichlorobenzene	ND	0.068	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4,5-Trichlorophenol	ND	0.052	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
2,4,6-Trichlorophenol	ND	0.065	0.24		mg/Kg-dr	1	7/7/2014 1:24:02 PM	14071
Surr: 2-Fluorophenol	63.6		27.9-127		%REC	1	7/7/2014 1:24:02 PM	14071
Surr: Phenol-d5	67.8		24.5-126		%REC	1	7/7/2014 1:24:02 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0025
Project: Kirtland AFB
Collection Date: 7/2/2014 3:34:00 PM
Lab ID: 1407139-010
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	50.3		27.6-136		%REC	1	7/7/2014 1:24:02 PM	14071
Surr: Nitrobenzene-d5	74.2		23.5-128		%REC	1	7/7/2014 1:24:02 PM	14071
Surr: 2-Fluorobiphenyl	76.9		22.6-132		%REC	1	7/7/2014 1:24:02 PM	14071
Surr: 4-Terphenyl-d14	66.0		28.1-128		%REC	1	7/7/2014 1:24:02 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Toluene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Ethylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Xylenes, Total	ND	0.00164	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2,4-Trimethylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,3,5-Trimethylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Naphthalene	ND	0.00164	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Acetone	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Bromobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Bromodichloromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Bromoform	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Bromomethane	0.000827	0.000819	0.00410	J	mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
2-Butanone	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Carbon tetrachloride	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Chlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Chloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Chloroform	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Chloromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
2-Chlorotoluene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Carbon disulfide	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
4-Chlorotoluene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
cis-1,2-DCE	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
cis-1,3-Dichloropropene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Dibromochloromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Dibromomethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2-Dichlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,3-Dichlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,4-Dichlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Dichlorodifluoromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1-Dichloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0025
Project: Kirtland AFB
Collection Date: 7/2/2014 3:34:00 PM
Lab ID: 1407139-010
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2-Dichloropropane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,3-Dichloropropane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
2,2-Dichloropropane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1-Dichloropropene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Hexachlorobutadiene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Isopropylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
4-Isopropyltoluene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Methylene chloride	ND	0.00164	0.00410		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
n-Butylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
2-Hexanone	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
n-Propylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
sec-Butylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Styrene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
4-Methyl-2-pentanone	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
tert-Butylbenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Tetrachloroethene (PCE)	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
trans-1,2-DCE	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
trans-1,3-Dichloropropene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2,3-Trichlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2,4-Trichlorobenzene	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1,1-Trichloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,1,2-Trichloroethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Trichloroethene (TCE)	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Trichlorofluoromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
1,2,3-Trichloropropane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Vinyl chloride	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Vinyl acetate	ND	0.00819	0.00819		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Bromochloromethane	ND	0.000819	0.00164		mg/Kg-dr	1	7/2/2014 10:33:56 PM	14027
Surr: 1,2-Dichloroethane-d4	103	0	70-130		%REC	1	7/2/2014 10:33:56 PM	14027
Surr: 4-Bromofluorobenzene	94.0	0	65.3-135		%REC	1	7/2/2014 10:33:56 PM	14027
Surr: Dibromofluoromethane	75.6	0	70-130		%REC	1	7/2/2014 10:33:56 PM	14027
Surr: Toluene-d8	105	0	70-130		%REC	1	7/2/2014 10:33:56 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.57	4.3		mg/Kg-dr	1	7/9/2014 8:42:43 PM	R19795
Surr: BFB	105	0	61.2-137		%REC	1	7/9/2014 8:42:43 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0026
Project: Kirtland AFB
Collection Date: 7/2/2014 3:40:00 PM
Lab ID: 1407139-011
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	7/7/2014 10:27:26 PM	14054
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	7/7/2014 10:27:26 PM	14054
Surr: DNOP	76.8	0	57.9-140		%REC	1	7/7/2014 10:27:26 PM	14054
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	7/2/2014 7:07:00 PM	R19655
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.5	0.20	0.27		mg/Kg-dr	1	7/7/2014 2:06:41 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Acenaphthylene	ND	0.055	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Aniline	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Anthracene	ND	0.049	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Benz(a)anthracene	0.11	0.061	0.22	J	mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Benzo(a)pyrene	ND	0.068	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Benzo(b)fluoranthene	ND	0.077	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Bis(2-chloroethoxy)methane	ND	0.076	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Bis(2-chloroethyl)ether	ND	0.090	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.042	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.076	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Bromophenyl phenyl ether	ND	0.057	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Butyl benzyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Chlorophenol	ND	0.070	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Chlorophenyl phenyl ether	ND	0.064	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Chrysene	0.059	0.057	0.22	J	mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Di-n-butyl phthalate	ND	0.051	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Dibenz(a,h)anthracene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
1,2-Dichlorobenzene	ND	0.044	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
1,3-Dichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
1,4-Dichlorobenzene	ND	0.070	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0026
Project: Kirtland AFB
Collection Date: 7/2/2014 3:40:00 PM
Lab ID: 1407139-011
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,6-Dinitrotoluene	ND	0.067	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Fluoranthene	0.058	0.050	0.22	J	mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Fluorene	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Hexachlorobutadiene	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Hexachlorocyclopentadiene	ND	0.073	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Hexachloroethane	ND	0.079	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Methylnaphthalene	ND	0.067	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
3+4-Methylphenol	ND	0.076	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
N-Nitrosodi-n-propylamine	ND	0.075	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
N-Nitrosodimethylamine	ND	0.085	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
N-Nitrosodiphenylamine	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
3-Nitroaniline	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2-Nitrophenol	ND	0.062	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Phenanthrene	ND	0.041	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Phenol	ND	0.066	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Pyrene	0.063	0.061	0.22	J	mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
1,2,4-Trichlorobenzene	ND	0.065	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4,5-Trichlorophenol	ND	0.050	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	7/7/2014 1:53:25 PM	14071
Surr: 2-Fluorophenol	56.6		27.9-127		%REC	1	7/7/2014 1:53:25 PM	14071
Surr: Phenol-d5	60.1		24.5-126		%REC	1	7/7/2014 1:53:25 PM	14071

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0026
Project: Kirtland AFB
Collection Date: 7/2/2014 3:40:00 PM
Lab ID: 1407139-011
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	41.5		27.6-136		%REC	1	7/7/2014 1:53:25 PM	14071
Surr: Nitrobenzene-d5	65.2		23.5-128		%REC	1	7/7/2014 1:53:25 PM	14071
Surr: 2-Fluorobiphenyl	62.4		22.6-132		%REC	1	7/7/2014 1:53:25 PM	14071
Surr: 4-Terphenyl-d14	56.0		28.1-128		%REC	1	7/7/2014 1:53:25 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Toluene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Ethylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Xylenes, Total	ND	0.00139	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Methyl tert-butyl ether (MTBE)	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2,4-Trimethylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,3,5-Trimethylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2-Dichloroethane (EDC)	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2-Dibromoethane (EDB)	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Naphthalene	ND	0.00139	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Acetone	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Bromobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Bromodichloromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Bromoform	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Bromomethane	0.000698	0.000697	0.00349	J	mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
2-Butanone	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Carbon tetrachloride	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Chlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Chloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Chloroform	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Chloromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
2-Chlorotoluene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Carbon disulfide	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
4-Chlorotoluene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
cis-1,2-DCE	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
cis-1,3-Dichloropropene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2-Dibromo-3-chloropropane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Dibromochloromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Dibromomethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2-Dichlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,3-Dichlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,4-Dichlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Dichlorodifluoromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1-Dichloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0026
Project: Kirtland AFB
Collection Date: 7/2/2014 3:40:00 PM
Lab ID: 1407139-011
Matrix: MEOH (SOIL)
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2-Dichloropropane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,3-Dichloropropane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
2,2-Dichloropropane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1-Dichloropropene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Hexachlorobutadiene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Isopropylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
4-Isopropyltoluene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Methylene chloride	ND	0.00139	0.00349		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
n-Butylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
2-Hexanone	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
n-Propylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
sec-Butylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Styrene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
4-Methyl-2-pentanone	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
tert-Butylbenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1,1,2-Tetrachloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1,2,2-Tetrachloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Tetrachloroethene (PCE)	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
trans-1,2-DCE	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
trans-1,3-Dichloropropene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2,3-Trichlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2,4-Trichlorobenzene	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1,1-Trichloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,1,2-Trichloroethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Trichloroethene (TCE)	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Trichlorofluoromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
1,2,3-Trichloropropane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Vinyl chloride	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Vinyl acetate	ND	0.00697	0.00697		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Bromochloromethane	ND	0.000697	0.00139		mg/Kg-dr	1	7/2/2014 11:03:33 PM	14027
Surr: 1,2-Dichloroethane-d4	101	0	70-130		%REC	1	7/2/2014 11:03:33 PM	14027
Surr: 4-Bromofluorobenzene	94.4	0	65.3-135		%REC	1	7/2/2014 11:03:33 PM	14027
Surr: Dibromofluoromethane	75.1	0	70-130		%REC	1	7/2/2014 11:03:33 PM	14027
Surr: Toluene-d8	98.1	0	70-130		%REC	1	7/2/2014 11:03:33 PM	14027
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.54	4.2		mg/Kg-dr	1	7/9/2014 9:10:41 PM	R19795
Surr: BFB	110	0	61.2-137		%REC	1	7/9/2014 9:10:41 PM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407139-012
Matrix: MEOH BLAN
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Toluene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Acetone	ND	0.049	0.75		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Bromomethane	ND	0.0071	0.15		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Chloroform	ND	0.017	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407139-012
Matrix: MEOH BLAN
Received Date: 7/2/2014 5:12:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Methylene chloride	ND	0.0047	0.15		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Styrene	ND	0.0039	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/8/2014 7:33:02 AM	R19735
Surr: Dibromofluoromethane	87.1	0	70-130		%REC	1	7/8/2014 7:33:02 AM	R19735
Surr: 1,2-Dichloroethane-d4	83.8	0	70-130		%REC	1	7/8/2014 7:33:02 AM	R19735
Surr: Toluene-d8	95.0	0	70-130		%REC	1	7/8/2014 7:33:02 AM	R19735
Surr: 4-Bromofluorobenzene	87.1	0	70-130		%REC	1	7/8/2014 7:33:02 AM	R19735
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/9/2014 9:38:40 PM	R19795
Surr: BFB	110	0	61.2-137		%REC	1	7/9/2014 9:38:40 PM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14054**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **572162** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		81.7	57.9	140			

Sample ID **LCS-14054**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **572163** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	68.6	130			
Surr: DNOP	3.8		5.000		75.9	57.9	140			

Sample ID **1407139-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0016**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **572381** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	11	53.90	0	111	40.1	152			
Surr: DNOP	4.2		5.390		77.3	57.9	140			

Sample ID **1407139-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0016**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **572382** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	83	11	54.39	0	153	40.1	152	32.4	32.1	RS
Surr: DNOP	4.3		5.439		79.0	57.9	140	0	0	

Sample ID **1407139-008AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0023**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573197** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	11	56.93	0	92.5	40.1	152			
Surr: DNOP	3.9		5.693		68.6	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1407139-009AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0024**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573198** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	11	55.18	0	118	40.1	152			
Surr: DNOP	4.5		5.518		80.7	57.9	140			

Sample ID **1407139-010AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0025**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573199** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	12	59.14	0	100	40.1	152			
Surr: DNOP	4.4		5.914		74.3	57.9	140			

Sample ID **1407139-011AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0026**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573200** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	11	56.37	0	101	40.1	152			
Surr: DNOP	4.2		5.637		74.2	57.9	140			

Sample ID **1407139-008AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0023**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573201** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	11	55.86	0	89.4	40.1	152	5.33	32.1	
Surr: DNOP	4.0		5.586		71.9	57.9	140	0	0	

Sample ID **1407139-009AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0024**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573202** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	11	55.13	0	114	40.1	152	3.72	32.1	
Surr: DNOP	4.6		5.513		82.6	57.9	140	0	0	

Sample ID **1407139-010AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0025**	Batch ID: **14054**	RunNo: **19701**
Prep Date: **7/3/2014**	Analysis Date: **7/7/2014**	SeqNo: **573203** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407139-010AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**FFOR-CF-0025**	Batch ID:	**14054**		RunNo:	**19701**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**573203**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	12	59.67	0	96.4	40.1	152	2.91	32.1	
Surr: DNOP	4.1		5.967		68.2	57.9	140	0	0	

Sample ID	**1407139-011AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015D: Diesel Range Organics**				
Client ID:	**FFOR-CF-0026**	Batch ID:	**14054**		RunNo:	**19701**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**573204**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	11	56.43	0	95.3	40.1	152	5.20	32.1	
Surr: DNOP	4.2		5.643		74.4	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573263** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.11	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573263** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.0076	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.45		0.5000		90.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.6	70	130			
Surr: Toluene-d8	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	70	130			
Toluene	1.1	0.050	1.000	0	113	60.1	120			
Chlorobenzene	1.1	0.050	1.000	0	108	70	130			
1,1-Dichloroethene	1.3	0.050	1.000	0	125	78.2	162			
Trichloroethene (TCE)	0.99	0.050	1.000	0	99.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.43		0.5000		86.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.0	70	130			
Surr: Toluene-d8	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14027**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570596** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00123	0.00500								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14027**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570596** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	0.00406	0.00500								J
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Vinyl acetate	ND	0.0100								
Bromochloromethane	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0205		0.02000		102	70	130			
Surr: 4-Bromofluorobenzene	0.0195		0.02000		97.7	65.3	135			
Surr: Dibromofluoromethane	0.0169		0.02000		84.3	70	130			
Surr: Toluene-d8	0.0195		0.02000		97.5	70	130			

Sample ID **lcs-14027**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570609** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00991	0.00200	0.01000	0	99.1	70	130			
Toluene	0.0100	0.00200	0.01000	0	100	70	130			
Chlorobenzene	0.00956	0.00200	0.01000	0	95.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14027**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/2/2014**	SeqNo: **570609** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00905	0.00200	0.01000	0	90.5	70	130			
Trichloroethene (TCE)	0.00964	0.00200	0.01000	0	96.4	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0211		0.02000		105	70	130			
Surr: 4-Bromofluorobenzene	0.0193		0.02000		96.3	65.3	135			
Surr: Dibromofluoromethane	0.0189		0.02000		94.6	70	130			
Surr: Toluene-d8	0.0205		0.02000		102	70	130			

Sample ID **1407139-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0016**	Batch ID: **14027**	RunNo: **19657**
Prep Date: **7/2/2014**	Analysis Date: **7/3/2014**	SeqNo: **570641** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00630	0.00143	0.007144	0	88.3	70	130	1.95	20	
Toluene	0.00625	0.00143	0.007144	0	87.5	70	130	0.0466	20	
Chlorobenzene	0.00596	0.00143	0.007144	0	83.4	70	130	1.71	20	
1,1-Dichloroethene	0.00626	0.00143	0.007144	0	87.6	70	130	5.04	20	
Trichloroethene (TCE)	0.00634	0.00143	0.007144	0	88.8	70	130	3.72	20	
Surr: 1,2-Dichloroethane-d4	0.0157		0.01429		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0148		0.01429		104	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0120		0.01429		84.2	70	130	0	0	
Surr: Toluene-d8	0.0137		0.01429		96.0	70	130	0	0	

Sample ID **mb-14065**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572203** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0212		0.02000		106	70	130			
Surr: 4-Bromofluorobenzene	0.0192		0.02000		95.8	65.3	135			
Surr: Dibromofluoromethane	0.0178		0.02000		89.0	70	130			
Surr: Toluene-d8	0.0204		0.02000		102	70	130			

Sample ID **lcs-14065**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14065**	RunNo: **19705**
Prep Date:	Analysis Date: **7/3/2014**	SeqNo: **572205** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0215		0.02000		107	70	130			
Surr: 4-Bromofluorobenzene	0.0185		0.02000		92.7	65.3	135			
Surr: Dibromofluoromethane	0.0182		0.02000		91.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-14065**	SampType:	**LCS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**LCSS**	Batch ID:	**14065**		RunNo:	**19705**				
Prep Date:		Analysis Date:	**7/3/2014**		SeqNo:	**572205**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	0.0205		0.02000		102	70	130			

Sample ID	**1407139-001ams**	SampType:	**MS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0016**	Batch ID:	**14027**		RunNo:	**19705**				
Prep Date:	**7/2/2014**	Analysis Date:	**7/3/2014**		SeqNo:	**572206**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00643	0.00154	0.007706	0	83.4	70	130			
Toluene	0.00625	0.00154	0.007706	0	81.1	70	130			
Chlorobenzene	0.00586	0.00154	0.007706	0	76.0	70	130			
1,1-Dichloroethene	0.00659	0.00154	0.007706	0	85.5	70	130			
Trichloroethene (TCE)	0.00658	0.00154	0.007706	0	85.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.0165		0.01541		107	70	130			
Surr: 4-Bromofluorobenzene	0.0143		0.01541		92.5	65.3	135			
Surr: Dibromofluoromethane	0.0119		0.01541		77.0	70	130			
Surr: Toluene-d8	0.0144		0.01541		93.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14071**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.093	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14071**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	0.079	0.20								J
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.6		3.330		78.9	27.9	127			
Surr: Phenol-d5	3.1		3.330		92.3	24.5	126			
Surr: 2,4,6-Tribromophenol	2.7		3.330		81.4	27.6	136			
Surr: Nitrobenzene-d5	1.6		1.670		95.4	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		93.7	22.6	132			
Surr: 4-Terphenyl-d14	1.5		1.670		91.6	28.1	128			

Sample ID **lcs-14071**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572823** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14071**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572823** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.20	1.670	0	94.2	50.7	110			
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	98.8	47.8	107			
2-Chlorophenol	3.0	0.20	3.330	0	90.3	45.7	108			
1,4-Dichlorobenzene	1.4	0.20	1.670	0	82.1	46.1	112			
2,4-Dinitrotoluene	1.4	0.50	1.670	0	85.1	44.9	114			
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	82.2	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	90.7	40.2	103			
Pentachlorophenol	2.0	0.40	3.330	0	59.3	32.9	94			
Phenol	3.2	0.20	3.330	0	95.3	44.1	109			
Pyrene	1.7	0.20	1.670	0	104	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	79.1	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		79.8	27.9	127			
Surr: Phenol-d5	3.1		3.330		93.8	24.5	126			
Surr: 2,4,6-Tribromophenol	2.7		3.330		79.9	27.6	136			
Surr: Nitrobenzene-d5	1.7		1.670		99.1	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		95.5	22.6	132			
Surr: 4-Terphenyl-d14	1.5		1.670		91.3	28.1	128			

Sample ID **1407139-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0016**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **573095** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.43	1.776	0	87.9	53.8	92.8			
4-Chloro-3-methylphenol	3.2	1.1	3.542	0	90.0	34.9	104			
2-Chlorophenol	2.9	0.43	3.542	0	81.3	18.2	105			
1,4-Dichlorobenzene	1.3	0.43	1.776	0	72.4	18.1	112			
2,4-Dinitrotoluene	1.4	1.1	1.776	0	78.6	22	144			
N-Nitrosodi-n-propylamine	1.3	0.43	1.776	0	74.2	58.6	101			
4-Nitrophenol	3.0	0.53	3.542	0	85.4	13.7	127			
Pentachlorophenol	1.6	0.85	3.542	0	44.3	16.5	107			
Phenol	2.9	0.43	3.542	0	81.2	12.5	114			
Pyrene	2.2	0.43	1.776	0.2496	111	14.2	116			
1,2,4-Trichlorobenzene	1.3	0.43	1.776	0	73.4	16	125			
Surr: 2-Fluorophenol	2.6		3.542		73.3	27.9	127			
Surr: Phenol-d5	2.9		3.542		81.2	24.5	126			
Surr: 2,4,6-Tribromophenol	2.4		3.542		67.2	27.6	136			
Surr: Nitrobenzene-d5	1.5		1.776		84.7	23.5	128			
Surr: 2-Fluorobiphenyl	1.7		1.776		97.0	22.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407139-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0016**	Batch ID:	**14071**		RunNo:	**19722**				
Prep Date:	**7/5/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**573095**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.7		1.776		95.8	28.1	128			

Sample ID	**1407139-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0016**	Batch ID:	**14071**		RunNo:	**19722**				
Prep Date:	**7/5/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**573096**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.43	1.810	0	72.0	53.8	92.8	18.1	22	
4-Chloro-3-methylphenol	2.7	1.1	3.609	0	74.7	34.9	104	16.8	27.3	
2-Chlorophenol	2.3	0.43	3.609	0	63.7	18.2	105	22.4	26.3	
1,4-Dichlorobenzene	0.93	0.43	1.810	0	51.6	18.1	112	31.7	27.4	R
2,4-Dinitrotoluene	1.2	1.1	1.810	0	67.6	22	144	13.1	27.4	
N-Nitrosodi-n-propylamine	1.2	0.43	1.810	0	67.4	58.6	101	7.65	22.6	
4-Nitrophenol	2.4	0.54	3.609	0	67.8	13.7	127	21.1	20	R
Pentachlorophenol	1.0	0.87	3.609	0	28.3	16.5	107	42.4	27.1	R
Phenol	2.4	0.43	3.609	0	65.5	12.5	114	19.6	32.2	
Pyrene	1.7	0.43	1.810	0.2496	79.2	14.2	116	28.0	29.5	
1,2,4-Trichlorobenzene	1.0	0.43	1.810	0	57.5	16	125	22.4	27.8	
Surr: 2-Fluorophenol	1.9		3.609		53.8	27.9	127	0	0	
Surr: Phenol-d5	2.4		3.609		67.4	24.5	126	0	0	
Surr: 2,4,6-Tribromophenol	1.8		3.609		49.6	27.6	136	0	0	
Surr: Nitrobenzene-d5	1.3		1.810		70.0	23.5	128	0	0	
Surr: 2-Fluorobiphenyl	1.4		1.810		77.8	22.6	132	0	0	
Surr: 4-Terphenyl-d14	1.4		1.810		78.0	28.1	128	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14064**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572198**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14064**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572199**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	25	0.25	25.00	0	99.2	80	120			

Sample ID	**1407139-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0016**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572420**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.26	26.25	2.859	77.4	75	125			

Sample ID	**1407139-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0016**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572421**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.26	26.23	2.859	76.1	75	125	1.55	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407139**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R19795**	RunNo: **19795**
Prep Date:	Analysis Date: **7/9/2014**	SeqNo: **575210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.5	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R19795**	RunNo: **19795**
Prep Date:	Analysis Date: **7/9/2014**	SeqNo: **575213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	80	120			
Surr: BFB	490		500.0		97.2	61.2	137			

Sample ID **1407139-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0016**	Batch ID: **R19795**	RunNo: **19795**
Prep Date:	Analysis Date: **7/9/2014**	SeqNo: **575217** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	9.9	3.8	19.19	0	51.7	58	134			S
Surr: BFB	430		383.8		111	61.2	137			

Sample ID **1407139-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0016**	Batch ID: **R19795**	RunNo: **19795**
Prep Date:	Analysis Date: **7/9/2014**	SeqNo: **575218** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	8.9	4.0	19.83	0	45.0	58	134	10.7	20	S
Surr: BFB	450		396.7		113	61.2	137	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407139 RcptNo: 1

Received by/date: 07/02/14

Logged By: **Ashley Gallegos** 7/2/2014 5:12:00 PM

Completed By: **Ashley Gallegos** 7/2/2014 5:17:12 PM

Reviewed By: 07/02/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.6	Good	Not Present			

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-000

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							by SW846 8270D, TPH DRO 8015B					
FFOR-CF-0017	FFOR-EXC-16-DS-FFOR-CF-0017-REG	02 JUL 2014	12:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B, TPH DRO			N		1407139-002
FFOR-CF-0017	FFOR-EXC-16-DS-FFOR-CF-0017-REG	02 JUL 2014	12:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0018	FFOR-EXC-17-DS-FFOR-CF-0018-REG	02 JUL 2014	12:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-003
FFOR-CF-0018	FFOR-EXC-17-DS-FFOR-CF-0018-REG	02 JUL 2014	12:40	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0019	FFOR-EXC-18-DS-FFOR-CF-0019-REG	02 JUL 2014	12:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-004
FFOR-CF-0019	FFOR-EXC-18-DS-FFOR-CF-0019-REG	02 JUL 2014	12:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0020	FFOR-EXC-19-DS-FFOR-CF-0020-REG	02 JUL 2014	13:48	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0020	FFOR-EXC-19-DS-FFOR-CF-0020-REG	02 JUL 2014	13:48	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0021	FFOR-EXC-20-DS-FFOR-CF-0021-REG	02 JUL 2014	15:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0021	FFOR-EXC-20-DS-FFOR-CF-0021-REG	02 JUL 2014	15:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0022	FFOR-EXC-20-DS-FFOR-CF-0022-FD	02 JUL 2014	15:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-007
FFOR-CF-0022	FFOR-EXC-20-DS-FFOR-CF-0022-FD	02 JUL 2014	15:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0023	FFOR-EXC-21-DS-FFOR-CF-0023-REG	02 JUL 2014	15:18	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-008
FFOR-CF-0023	FFOR-EXC-21-DS-FFOR-CF-0023-REG	02 JUL 2014	15:18	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0024	FFOR-EXC-22-DS-FFOR-CF-0024-REG	02 JUL 2014	15:26	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-009
FFOR-CF-0024	FFOR-EXC-22-DS-FFOR-CF-0024-REG	02 JUL 2014	15:26	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0025	FFOR-EXC-23-DS-FFOR-CF-0025-REG	02 JUL 2014	15:34	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-010
FFOR-CF-0025	FFOR-EXC-23-DS-FFOR-CF-0025-REG	02 JUL 2014	15:34	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0026	FFOR-EXC-24-DS-FFOR-CF-0026-REG	02 JUL 2014	15:40	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-011
FFOR-CF-0026	FFOR-EXC-24-DS-FFOR-CF-0026-REG	02 JUL 2014	15:40	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		

Methand Blank
07/03/14

-012

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-000

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 02 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: Fed Ex/

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Identification: Radiological ☐
Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/2/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/2/14 Time: 1645
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) Ashley Gallegos 6.6°C	Date: 07/02/14 Time: 1712
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor in any. PID: CF-0016 = 0.2 ppm, CF-0017 = 0.3 ppm, CF-0018=0.0 ppm, CF-0019=0.0 ppm, CF-0020 =0.0 ppm, CF-0021 = 0.3 ppm, CF-0022 =0.3 ppm, CF-0023 = 0.0 ppm, CF-0024 =0.0 ppm, CF-0025=0.0 ppm, CF-0026 = 0.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0016	FFOR-EXC-15-DS-FFOR-CF-0016-REG	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1407139-001
FFOR-CF-0016	FFOR-EXC-15-DS-FFOR-CF-0016-REG	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0016-MS	FFOR-EXC-15-DS-FFOR-CF-0016-MS-M	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002 -0
FFOR-CF-0016-MS	FFOR-EXC-15-DS-FFOR-CF-0016-MS-M	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		
FFOR-CF-0016-MSD	FFOR-EXC-15-DS-FFOR-CF-0016-MSD	02 JUL 2014	12:17	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-003 -C
FFOR-CF-0016-MSD	FFOR-EXC-15-DS-FFOR-CF-0016-MSD	02 JUL 2014	12:17	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs			N		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 16, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407188

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/3/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407188**
Date: **7/16/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

MTBE had a low recovery for the CCV using the low level 8260 soil method. MTBE was also analyzed by the standard 8260 method with a passing CCV. The MDL for the standard 8260 method is 0.019mg/L. The PQL for the standard 8260 method is 0.05mg/L. MTBE was nondetect using both methods.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0027
Project: Kirtland AFB
Collection Date: 7/3/2014 9:35:00 AM
Lab ID: 1407188-001
Matrix: MEOH (SOIL)
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.6	12		mg/Kg-dr	1	7/8/2014 12:26:57 PM	14085
Motor Oil Range Organics (MRO)	ND	59	59		mg/Kg-dr	1	7/8/2014 12:26:57 PM	14085
Surr: DNOP	75.2	0	57.9-140		%REC	1	7/8/2014 12:26:57 PM	14085
PERCENT MOISTURE							Analyst: **DJF**	
Percent Moisture	16	1.0	1.0		wt%	1	7/3/2014 2:00:00 PM	R19706
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	7.6	0.22	0.29		mg/Kg-dr	1	7/7/2014 2:12:40 PM	14064
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Acenaphthylene	ND	0.12	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Aniline	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Anthracene	ND	0.10	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Benz(a)anthracene	0.22	0.13	0.47	J	mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Benzo(a)pyrene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Benzo(b)fluoranthene	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Benzo(g,h,i)perylene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Benzo(k)fluoranthene	ND	0.18	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Bis(2-chloroethoxy)methane	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Bis(2-chloroethyl)ether	ND	0.19	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Bis(2-chloroisopropyl)ether	ND	0.088	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Bis(2-ethylhexyl)phthalate	ND	0.16	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Bromophenyl phenyl ether	ND	0.12	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Butyl benzyl phthalate	ND	0.10	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Carbazole	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Chloro-3-methylphenol	ND	0.13	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Chloroaniline	ND	0.13	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Chloronaphthalene	ND	0.14	0.59		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Chlorophenol	ND	0.15	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Chlorophenyl phenyl ether	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Chrysene	ND	0.12	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Di-n-butyl phthalate	ND	0.11	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Di-n-octyl phthalate	ND	0.59	0.95		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Dibenz(a,h)anthracene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Dibenzofuran	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
1,2-Dichlorobenzene	ND	0.092	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
1,3-Dichlorobenzene	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
1,4-Dichlorobenzene	ND	0.15	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
3,3´-Dichlorobenzidine	ND	0.13	0.59		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0027
Project: Kirtland AFB
Collection Date: 7/3/2014 9:35:00 AM
Lab ID: 1407188-001
Matrix: MEOH (SOIL)
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Dimethyl phthalate	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4-Dichlorophenol	ND	0.15	0.95		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4-Dimethylphenol	ND	0.14	0.71		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4,6-Dinitro-2-methylphenol	ND	0.097	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4-Dinitrophenol	ND	0.17	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4-Dinitrotoluene	ND	0.17	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,6-Dinitrotoluene	ND	0.14	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Fluoranthene	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Fluorene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Hexachlorobenzene	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Hexachlorobutadiene	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Hexachlorocyclopentadiene	ND	0.15	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Hexachloroethane	ND	0.17	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Indeno(1,2,3-cd)pyrene	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Isophorone	ND	0.16	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Methylnaphthalene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Methylphenol	ND	0.14	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
3+4-Methylphenol	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
N-Nitrosodi-n-propylamine	ND	0.16	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
N-Nitrosodimethylamine	ND	0.18	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
N-Nitrosodiphenylamine	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Naphthalene	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Nitroaniline	ND	0.11	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
3-Nitroaniline	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Nitroaniline	ND	0.11	0.95		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Nitrobenzene	ND	0.13	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2-Nitrophenol	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
4-Nitrophenol	ND	0.15	0.59		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Pentachlorophenol	ND	0.19	0.95		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Phenanthrene	ND	0.086	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Phenol	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Pyrene	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Pyridine	ND	0.13	1.2		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
1,2,4-Trichlorobenzene	ND	0.14	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4,5-Trichlorophenol	ND	0.10	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
2,4,6-Trichlorophenol	ND	0.13	0.47		mg/Kg-dr	1	7/7/2014 2:22:45 PM	14071
Surr: 2-Fluorophenol	81.4		27.9-127		%REC	1	7/7/2014 2:22:45 PM	14071
Surr: Phenol-d5	81.1		24.5-126		%REC	1	7/7/2014 2:22:45 PM	14071

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0027
Project: Kirtland AFB
Collection Date: 7/3/2014 9:35:00 AM
Lab ID: 1407188-001
Matrix: MEOH (SOIL)
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	52.6		27.6-136		%REC	1	7/7/2014 2:22:45 PM	14071
Surr: Nitrobenzene-d5	88.5		23.5-128		%REC	1	7/7/2014 2:22:45 PM	14071
Surr: 2-Fluorobiphenyl	82.7		22.6-132		%REC	1	7/7/2014 2:22:45 PM	14071
Surr: 4-Terphenyl-d14	75.3		28.1-128		%REC	1	7/7/2014 2:22:45 PM	14071
METHOD 8260B/5035LOW: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Toluene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Ethylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Xylenes, Total	ND	0.00144	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Methyl tert-butyl ether (MTBE)	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2,4-Trimethylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,3,5-Trimethylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2-Dichloroethane (EDC)	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2-Dibromoethane (EDB)	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Naphthalene	ND	0.00144	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Acetone	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Bromobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Bromodichloromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Bromoform	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Bromomethane	0.000779	0.000718	0.00359	J	mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
2-Butanone	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Carbon tetrachloride	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Chlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Chloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Chloroform	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Chloromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
2-Chlorotoluene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Carbon disulfide	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
4-Chlorotoluene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
cis-1,2-DCE	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
cis-1,3-Dichloropropene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2-Dibromo-3-chloropropane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Dibromochloromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Dibromomethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2-Dichlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,3-Dichlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,4-Dichlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Dichlorodifluoromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1-Dichloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0027
Project: Kirtland AFB
Collection Date: 7/3/2014 9:35:00 AM
Lab ID: 1407188-001
Matrix: MEOH (SOIL)
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **RAA**	
1,1-Dichloroethene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2-Dichloropropane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,3-Dichloropropane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
2,2-Dichloropropane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1-Dichloropropene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Hexachlorobutadiene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Isopropylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
4-Isopropyltoluene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Methylene chloride	ND	0.00144	0.00359		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
n-Butylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
2-Hexanone	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
n-Propylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
sec-Butylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Styrene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
4-Methyl-2-pentanone	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
tert-Butylbenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1,1,2-Tetrachloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1,2,2-Tetrachloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Tetrachloroethene (PCE)	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
trans-1,2-DCE	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
trans-1,3-Dichloropropene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2,3-Trichlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2,4-Trichlorobenzene	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1,1-Trichloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,1,2-Trichloroethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Trichloroethene (TCE)	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Trichlorofluoromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
1,2,3-Trichloropropane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Vinyl chloride	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Vinyl acetate	ND	0.00718	0.00718		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Bromochloromethane	ND	0.000718	0.00144		mg/Kg-dr	1	7/3/2014 2:42:58 PM	14065
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	7/3/2014 2:42:58 PM	14065
Surr: 4-Bromofluorobenzene	95.7	0	65.3-135		%REC	1	7/3/2014 2:42:58 PM	14065
Surr: Dibromofluoromethane	89.5	0	70-130		%REC	1	7/3/2014 2:42:58 PM	14065
Surr: Toluene-d8	89.6	0	70-130		%REC	1	7/3/2014 2:42:58 PM	14065
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.47	3.6		mg/Kg-dr	1	7/10/2014 12:25:53 AM	R19795
Surr: BFB	109	0	61.2-137		%REC	1	7/10/2014 12:25:53 AM	R19795

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407188-002
Matrix: MEOH BLAN
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Toluene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Naphthalene	ND	0.0042	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Acetone	ND	0.049	0.75		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Bromoform	ND	0.0047	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Bromomethane	0.019	0.0071	0.15	J	mg/Kg	1	7/8/2014 8:29:09 AM	R19735
2-Butanone	ND	0.023	0.50		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Chloroethane	ND	0.0083	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Chloroform	ND	0.017	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Chloromethane	ND	0.0046	0.15		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1407188-002
Matrix: MEOH BLAN
Received Date: 7/3/2014 11:30:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Methylene chloride	0.0087	0.0047	0.15	J	mg/Kg	1	7/8/2014 8:29:09 AM	R19735
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Styrene	ND	0.0039	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	7/8/2014 8:29:09 AM	R19735
Surr: Dibromofluoromethane	88.9	0	70-130		%REC	1	7/8/2014 8:29:09 AM	R19735
Surr: 1,2-Dichloroethane-d4	85.0	0	70-130		%REC	1	7/8/2014 8:29:09 AM	R19735
Surr: Toluene-d8	93.2	0	70-130		%REC	1	7/8/2014 8:29:09 AM	R19735
Surr: 4-Bromofluorobenzene	86.3	0	70-130		%REC	1	7/8/2014 8:29:09 AM	R19735
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	7/10/2014 12:53:46 AM	R19795
Surr: BFB	109	0	61.2-137		%REC	1	7/10/2014 12:53:46 AM	R19795

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14085**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14085**	RunNo: **19699**
Prep Date: **7/7/2014**	Analysis Date: **7/7/2014**	SeqNo: **572210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.6	57.9	140			

Sample ID **LCS-14085**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14085**	RunNo: **19699**
Prep Date: **7/7/2014**	Analysis Date: **7/7/2014**	SeqNo: **572211** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.6	130			
Surr: DNOP	4.3		5.000		86.4	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573263** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.11	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573263** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.0076	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.45		0.5000		90.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.6	70	130			
Surr: Toluene-d8	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	70	130			
Toluene	1.1	0.050	1.000	0	113	60.1	120			
Chlorobenzene	1.1	0.050	1.000	0	108	70	130			
1,1-Dichloroethene	1.3	0.050	1.000	0	125	78.2	162			
Trichloroethene (TCE)	0.99	0.050	1.000	0	99.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19735**	RunNo: **19735**
Prep Date:	Analysis Date: **7/7/2014**	SeqNo: **573268** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.43		0.5000		86.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.0	70	130			
Surr: Toluene-d8	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14065**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00109	0.00200								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14065**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572203** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	0.0212		0.02000		106	70	130			
Surr: 4-Bromofluorobenzene	0.0192		0.02000		95.8	65.3	135			
Surr: Dibromofluoromethane	0.0178		0.02000		89.0	70	130			
Surr: Toluene-d8	0.0204		0.02000		102	70	130			

Sample ID **lcs-14065**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14065**	RunNo: **19705**
Prep Date:	Analysis Date: **7/3/2014**	SeqNo: **572205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0101	0.00200	0.01000	0	101	70	130			
Toluene	0.0104	0.00200	0.01000	0	104	70	130			
Chlorobenzene	0.00995	0.00200	0.01000	0	99.4	70	130			
1,1-Dichloroethene	0.00929	0.00200	0.01000	0	92.9	70	130			
Trichloroethene (TCE)	0.00998	0.00200	0.01000	0	99.8	61.6	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14065**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14065**	RunNo: **19705**
Prep Date:	Analysis Date: **7/3/2014**	SeqNo: **572205** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.0215		0.02000		107	70	130			
Surr: 4-Bromofluorobenzene	0.0185		0.02000		92.7	65.3	135			
Surr: Dibromofluoromethane	0.0182		0.02000		91.1	70	130			
Surr: Toluene-d8	0.0205		0.02000		102	70	130			

Sample ID **1407188-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0027**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572207** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00698	0.00143	0.007144	0	97.7	70	130			
Toluene	0.00684	0.00143	0.007144	0	95.8	70	130			
Chlorobenzene	0.00692	0.00143	0.007144	0	96.9	70	130			
1,1-Dichloroethene	0.00608	0.00143	0.007144	0	85.1	70	130			
Trichloroethene (TCE)	0.00695	0.00143	0.007144	0	97.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.0151		0.01429		106	70	130			
Surr: 4-Bromofluorobenzene	0.0138		0.01429		96.3	65.3	135			
Surr: Dibromofluoromethane	0.0121		0.01429		84.8	70	130			
Surr: Toluene-d8	0.0137		0.01429		96.1	70	130			

Sample ID **1407188-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0027**	Batch ID: **14065**	RunNo: **19705**
Prep Date: **7/3/2014**	Analysis Date: **7/3/2014**	SeqNo: **572208** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00679	0.00143	0.007144	0	95.0	70	130	2.78	20	
Toluene	0.00660	0.00143	0.007144	0	92.4	70	130	3.59	20	
Chlorobenzene	0.00642	0.00143	0.007144	0	89.8	70	130	7.55	20	
1,1-Dichloroethene	0.00612	0.00143	0.007144	0	85.7	70	130	0.702	20	
Trichloroethene (TCE)	0.00685	0.00143	0.007144	0	95.9	70	130	1.47	20	
Surr: 1,2-Dichloroethane-d4	0.0151		0.01429		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0133		0.01429		92.8	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0119		0.01429		83.2	70	130	0	0	
Surr: Toluene-d8	0.0138		0.01429		96.6	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14071**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.093	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14071**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572822** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	0.079	0.20								J
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.6		3.330		78.9	27.9	127			
Surr: Phenol-d5	3.1		3.330		92.3	24.5	126			
Surr: 2,4,6-Tribromophenol	2.7		3.330		81.4	27.6	136			
Surr: Nitrobenzene-d5	1.6		1.670		95.4	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		93.7	22.6	132			
Surr: 4-Terphenyl-d14	1.5		1.670		91.6	28.1	128			

Sample ID **lcs-14071**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572823** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14071**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14071**	RunNo: **19722**
Prep Date: **7/5/2014**	Analysis Date: **7/7/2014**	SeqNo: **572823** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.20	1.670	0	94.2	50.7	110			
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	98.8	47.8	107			
2-Chlorophenol	3.0	0.20	3.330	0	90.3	45.7	108			
1,4-Dichlorobenzene	1.4	0.20	1.670	0	82.1	46.1	112			
2,4-Dinitrotoluene	1.4	0.50	1.670	0	85.1	44.9	114			
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	82.2	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	90.7	40.2	103			
Pentachlorophenol	2.0	0.40	3.330	0	59.3	32.9	94			
Phenol	3.2	0.20	3.330	0	95.3	44.1	109			
Pyrene	1.7	0.20	1.670	0	104	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	79.1	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		79.8	27.9	127			
Surr: Phenol-d5	3.1		3.330		93.8	24.5	126			
Surr: 2,4,6-Tribromophenol	2.7		3.330		79.9	27.6	136			
Surr: Nitrobenzene-d5	1.7		1.670		99.1	23.5	128			
Surr: 2-Fluorobiphenyl	1.6		1.670		95.5	22.6	132			
Surr: 4-Terphenyl-d14	1.5		1.670		91.3	28.1	128			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14064**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572198**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14064**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14064**		RunNo:	**19704**				
Prep Date:	**7/3/2014**	Analysis Date:	**7/7/2014**		SeqNo:	**572199**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	25	0.25	25.00	0	99.2	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407188**

16-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**5mL-rb**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**R19795**	RunNo:	**19795**
Prep Date:		Analysis Date:	**7/9/2014**	SeqNo:	**575210** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.5	61.2	137			

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**R19795**	RunNo:	**19795**
Prep Date:		Analysis Date:	**7/9/2014**	SeqNo:	**575213** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	80	120			
Surr: BFB	490		500.0		97.2	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407188 RcptNo: 1

Received by/date: 07/03/14

Logged By: **Ashley Gallegos** 7/3/2014 11:30:00 AM

Completed By: **Ashley Gallegos** 7/3/2014 11:35:15 AM

Reviewed By: 07/03/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

# of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	8.3	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-(

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48hr

Samples Shipment Date: 03 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: 1 None

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/3/14 Time: 1130	1. Received By (Signature/Affiliation) 8.3°C	Date: 07/03/14 Time: 1130
2. Relinquished By (Signature/Affiliation):	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: No odor, FFOR-CF-0027 has PID = 94.3 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0027	FFOR-EXC-25-DS-FFOR-CF-0027-REG	03 JUL 2014	09:35	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1407188
FFOR-CF-0027	FFOR-EXC-25-DS-FFOR-CF-0027-REG	03 JUL 2014	09:35	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, SVOCs by SW846 8270D, TPH DRO 8015B			N		-001

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 25, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407901

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/18/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1407901**
Date: **7/25/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

2,2-Dichloropropane had a low recovery for the ICV and CCV using the low level 8260 soil method. 2,2-Dichloropropane was also analyzed by the standard 8260 method with passing ICV and CCV. The MDL for the standard 8260 method is 0.0054mg/kg. The PQL for the standard 8260 method is 0.1mg/kg. 2,2-Dichloropropane was nondetect using both methods.

MTBE had a low recovery for the CCV using the low level 8260 soil method. MTBE was also analyzed by the standard 8260 method with a passing CCV. The MDL for the standard 8260 method is 0.019mg/L. The PQL for the standard 8260 method is 0.05mg/L. MTBE was nondetect using both methods.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0028
Project: Kirtland AFB
Collection Date: 7/18/2014 9:52:00 AM
Lab ID: 1407901-001
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.8	11		mg/Kg-dr	1	7/18/2014 7:34:49 PM	14301
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/18/2014 7:34:49 PM	14301
Surr: DNOP	78.8	0	57.9-140		%REC	1	7/18/2014 7:34:49 PM	14301
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.1	1.0	1.0		wt%	1	7/18/2014 5:09:00 PM	R20010
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.0	0.19	0.26		mg/Kg-dr	1	7/21/2014 2:48:51 PM	14317
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Aniline	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Benzo(b)fluoranthene	ND	0.074	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Benzo(g,h,i)perylene	ND	0.065	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Benzo(k)fluoranthene	ND	0.082	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Bromophenyl phenyl ether	ND	0.054	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Carbazole	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Chlorophenol	ND	0.067	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Chlorophenyl phenyl ether	ND	0.061	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Dibenz(a,h)anthracene	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Dibenzofuran	ND	0.072	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0028
Project: Kirtland AFB
Collection Date: 7/18/2014 9:52:00 AM
Lab ID: 1407901-001
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4-Dinitrophenol	ND	0.076	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Fluoranthene	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Methylnaphthalene	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Naphthalene	ND	0.051	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Nitrobenzene	ND	0.060	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2-Nitrophenol	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Pentachlorophenol	ND	0.088	0.43		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Phenol	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
1,2,4-Trichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 12:00:20 PM	14320
Surr: 2-Fluorophenol	72.2		21-111		%REC	1	7/21/2014 12:00:20 PM	14320
Surr: Phenol-d5	70.0		23.1-117		%REC	1	7/21/2014 12:00:20 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0028
Project: Kirtland AFB
Collection Date: 7/18/2014 9:52:00 AM
Lab ID: 1407901-001
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	69.8		22.7-88.9		%REC	1	7/21/2014 12:00:20 PM	14320
Surr: Nitrobenzene-d5	75.2		24.5-126		%REC	1	7/21/2014 12:00:20 PM	14320
Surr: 2-Fluorobiphenyl	75.6		21.2-129		%REC	1	7/21/2014 12:00:20 PM	14320
Surr: 4-Terphenyl-d14	76.2		39.4-107		%REC	1	7/21/2014 12:00:20 PM	14320
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Toluene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Ethylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Xylenes, Total	ND	0.00153	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Methyl tert-butyl ether (MTBE)	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2,4-Trimethylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,3,5-Trimethylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2-Dichloroethane (EDC)	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2-Dibromoethane (EDB)	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Naphthalene	ND	0.00153	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Acetone	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Bromobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Bromodichloromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Bromoform	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Bromomethane	ND	0.000765	0.00383		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
2-Butanone	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Carbon tetrachloride	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Chlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Chloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Chloroform	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Chloromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
2-Chlorotoluene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Carbon disulfide	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
4-Chlorotoluene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
cis-1,2-DCE	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
cis-1,3-Dichloropropene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2-Dibromo-3-chloropropane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Dibromochloromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Dibromomethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2-Dichlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,3-Dichlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,4-Dichlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Dichlorodifluoromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1-Dichloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0028
Project: Kirtland AFB
Collection Date: 7/18/2014 9:52:00 AM
Lab ID: 1407901-001
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2-Dichloropropane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,3-Dichloropropane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
2,2-Dichloropropane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1-Dichloropropene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Hexachlorobutadiene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Isopropylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
4-Isopropyltoluene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Methylene chloride	ND	0.00153	0.00383		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
n-Butylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
2-Hexanone	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
n-Propylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
sec-Butylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Styrene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
4-Methyl-2-pentanone	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
tert-Butylbenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1,1,2-Tetrachloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1,2,2-Tetrachloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Tetrachloroethene (PCE)	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
trans-1,2-DCE	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
trans-1,3-Dichloropropene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2,3-Trichlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2,4-Trichlorobenzene	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1,1-Trichloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,1,2-Trichloroethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Trichloroethene (TCE)	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Trichlorofluoromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
1,2,3-Trichloropropane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Vinyl chloride	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Vinyl acetate	ND	0.00765	0.00765		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Bromochloromethane	ND	0.000765	0.00153		mg/Kg-dr	1	7/18/2014 5:30:53 PM	14314
Surr: 1,2-Dichloroethane-d4	100	0	70-130		%REC	1	7/18/2014 5:30:53 PM	14314
Surr: 4-Bromofluorobenzene	97.8	0	65.3-135		%REC	1	7/18/2014 5:30:53 PM	14314
Surr: Dibromofluoromethane	89.3	0	70-130		%REC	1	7/18/2014 5:30:53 PM	14314
Surr: Toluene-d8	109	0	70-130		%REC	1	7/18/2014 5:30:53 PM	14314
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.48	3.7		mg/Kg-dr	1	7/21/2014 12:32:32 PM	R20042
Surr: BFB	113	0	61.2-137		%REC	1	7/21/2014 12:32:32 PM	R20042

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0029
Project: Kirtland AFB
Collection Date: 7/18/2014 10:01:00 AM
Lab ID: 1407901-002
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	7/18/2014 7:56:26 PM	14301
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	7/18/2014 7:56:26 PM	14301
Surr: DNOP	89.6	0	57.9-140		%REC	1	7/18/2014 7:56:26 PM	14301
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.9	1.0	1.0		wt%	1	7/18/2014 5:09:00 PM	R20010
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	3.6	0.20	0.27		mg/Kg-dr	1	7/21/2014 2:52:44 PM	14317
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Aniline	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Benz(a)anthracene	0.10	0.058	0.22	J	mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Benzo(b)fluoranthene	ND	0.074	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Benzo(g,h,i)perylene	ND	0.065	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Benzo(k)fluoranthene	ND	0.082	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Bis(2-chloroethyl)ether	ND	0.086	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Bis(2-ethylhexyl)phthalate	ND	0.072	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Bromophenyl phenyl ether	ND	0.054	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Carbazole	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Chlorophenol	ND	0.067	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Chlorophenyl phenyl ether	ND	0.061	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Chrysene	0.056	0.055	0.22	J	mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Di-n-butyl phthalate	ND	0.048	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Dibenz(a,h)anthracene	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Dibenzofuran	ND	0.072	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0029
Project: Kirtland AFB
Collection Date: 7/18/2014 10:01:00 AM
Lab ID: 1407901-002
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4-Dinitrophenol	ND	0.076	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4-Dinitrotoluene	ND	0.079	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Fluoranthene	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Indeno(1,2,3-cd)pyrene	ND	0.071	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Methylnaphthalene	ND	0.064	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
N-Nitrosodi-n-propylamine	ND	0.071	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
N-Nitrosodimethylamine	ND	0.081	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Naphthalene	ND	0.051	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Nitrobenzene	ND	0.060	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2-Nitrophenol	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Pentachlorophenol	ND	0.087	0.43		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Phenol	ND	0.063	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Pyrene	ND	0.058	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
1,2,4-Trichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	7/21/2014 2:34:58 PM	14320
Surr: 2-Fluorophenol	67.4		21-111		%REC	1	7/21/2014 2:34:58 PM	14320
Surr: Phenol-d5	66.9		23.1-117		%REC	1	7/21/2014 2:34:58 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0029
Project: Kirtland AFB
Collection Date: 7/18/2014 10:01:00 AM
Lab ID: 1407901-002
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	64.6		22.7-88.9		%REC	1	7/21/2014 2:34:58 PM	14320
Surr: Nitrobenzene-d5	81.9		24.5-126		%REC	1	7/21/2014 2:34:58 PM	14320
Surr: 2-Fluorobiphenyl	76.1		21.2-129		%REC	1	7/21/2014 2:34:58 PM	14320
Surr: 4-Terphenyl-d14	75.4		39.4-107		%REC	1	7/21/2014 2:34:58 PM	14320
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Toluene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Ethylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Xylenes, Total	ND	0.00139	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Methyl tert-butyl ether (MTBE)	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2,4-Trimethylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,3,5-Trimethylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2-Dichloroethane (EDC)	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2-Dibromoethane (EDB)	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Naphthalene	ND	0.00139	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Acetone	0.00906	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Bromobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Bromodichloromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Bromoform	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Bromomethane	ND	0.000693	0.00347		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
2-Butanone	ND	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Carbon tetrachloride	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Chlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Chloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Chloroform	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Chloromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
2-Chlorotoluene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Carbon disulfide	ND	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
4-Chlorotoluene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
cis-1,2-DCE	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
cis-1,3-Dichloropropene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2-Dibromo-3-chloropropane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Dibromochloromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Dibromomethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2-Dichlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,3-Dichlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,4-Dichlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Dichlorodifluoromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1-Dichloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0029
Project: Kirtland AFB
Collection Date: 7/18/2014 10:01:00 AM
Lab ID: 1407901-002
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2-Dichloropropane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,3-Dichloropropane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
2,2-Dichloropropane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1-Dichloropropene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Hexachlorobutadiene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Isopropylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
4-Isopropyltoluene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Methylene chloride	ND	0.00139	0.00347		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
n-Butylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
2-Hexanone	ND	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
n-Propylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
sec-Butylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Styrene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
4-Methyl-2-pentanone	ND	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
tert-Butylbenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1,1,2-Tetrachloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1,2,2-Tetrachloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Tetrachloroethene (PCE)	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
trans-1,2-DCE	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
trans-1,3-Dichloropropene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2,3-Trichlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2,4-Trichlorobenzene	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1,1-Trichloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,1,2-Trichloroethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Trichloroethene (TCE)	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Trichlorofluoromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
1,2,3-Trichloropropane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Vinyl chloride	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Vinyl acetate	ND	0.00693	0.00693		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Bromochloromethane	ND	0.000693	0.00139		mg/Kg-dr	1	7/18/2014 7:00:01 PM	14314
Surr: 1,2-Dichloroethane-d4	107	0	70-130		%REC	1	7/18/2014 7:00:01 PM	14314
Surr: 4-Bromofluorobenzene	96.8	0	65.3-135		%REC	1	7/18/2014 7:00:01 PM	14314
Surr: Dibromofluoromethane	89.0	0	70-130		%REC	1	7/18/2014 7:00:01 PM	14314
Surr: Toluene-d8	101	0	70-130		%REC	1	7/18/2014 7:00:01 PM	14314
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.54	4.1		mg/Kg-dr	1	7/21/2014 1:56:47 PM	R20042
Surr: BFB	112	0	61.2-137		%REC	1	7/21/2014 1:56:47 PM	R20042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0030
Project: Kirtland AFB
Collection Date: 7/18/2014 10:12:00 AM
Lab ID: 1407901-003
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	7/18/2014 8:18:09 PM	14301
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	7/18/2014 8:18:09 PM	14301
Surr: DNOP	99.6	0	57.9-140		%REC	1	7/18/2014 8:18:09 PM	14301
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.6	1.0	1.0		wt%	1	7/18/2014 5:09:00 PM	R20010
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	2.3	0.20	0.27		mg/Kg-dr	1	7/21/2014 2:54:03 PM	14317
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Aniline	ND	0.063	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Benz(a)anthracene	ND	0.058	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Benzo(g,h,i)perylene	ND	0.065	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Benzo(k)fluoranthene	ND	0.081	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Bis(2-chloroethoxy)methane	ND	0.072	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Bis(2-chloroethyl)ether	ND	0.086	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Bis(2-chloroisopropyl)ether	ND	0.040	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Bis(2-ethylhexyl)phthalate	ND	0.072	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Bromophenyl phenyl ether	ND	0.054	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Chloro-3-methylphenol	ND	0.057	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Chloroaniline	ND	0.057	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Chloronaphthalene	ND	0.061	0.27		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Chlorophenol	ND	0.067	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Chlorophenyl phenyl ether	ND	0.061	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Di-n-butyl phthalate	ND	0.048	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Dibenz(a,h)anthracene	ND	0.064	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Dibenzofuran	ND	0.072	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
1,2-Dichlorobenzene	ND	0.042	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
3,3´-Dichlorobenzidine	ND	0.059	0.27		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0030
Project: Kirtland AFB
Collection Date: 7/18/2014 10:12:00 AM
Lab ID: 1407901-003
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4,6-Dinitro-2-methylphenol	ND	0.044	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4-Dinitrotoluene	ND	0.079	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Fluoranthene	ND	0.048	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Hexachloroethane	ND	0.075	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Indeno(1,2,3-cd)pyrene	ND	0.071	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Methylnaphthalene	ND	0.064	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
3+4-Methylphenol	ND	0.072	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
N-Nitrosodi-n-propylamine	ND	0.071	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
N-Nitrosodimethylamine	ND	0.081	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Naphthalene	ND	0.051	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Nitroaniline	ND	0.052	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Nitroaniline	ND	0.051	0.43		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Nitrobenzene	ND	0.060	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2-Nitrophenol	ND	0.059	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Pentachlorophenol	ND	0.087	0.43		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Phenanthrene	ND	0.039	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Phenol	ND	0.063	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Pyrene	ND	0.058	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
1,2,4-Trichlorobenzene	ND	0.062	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
2,4,6-Trichlorophenol	ND	0.059	0.21		mg/Kg-dr	1	7/21/2014 1:36:13 PM	14320
Surr: 2-Fluorophenol	81.4		21-111		%REC	1	7/21/2014 1:36:13 PM	14320
Surr: Phenol-d5	82.4		23.1-117		%REC	1	7/21/2014 1:36:13 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0030
Project: Kirtland AFB
Collection Date: 7/18/2014 10:12:00 AM
Lab ID: 1407901-003
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	85.2		22.7-88.9		%REC	1	7/21/2014 1:36:13 PM	14320
Surr: Nitrobenzene-d5	86.1		24.5-126		%REC	1	7/21/2014 1:36:13 PM	14320
Surr: 2-Fluorobiphenyl	94.9		21.2-129		%REC	1	7/21/2014 1:36:13 PM	14320
Surr: 4-Terphenyl-d14	88.3		39.4-107		%REC	1	7/21/2014 1:36:13 PM	14320
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Toluene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Ethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Xylenes, Total	ND	0.00143	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Methyl tert-butyl ether (MTBE)	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2,4-Trimethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,3,5-Trimethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2-Dichloroethane (EDC)	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2-Dibromoethane (EDB)	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Naphthalene	ND	0.00143	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Acetone	0.0103	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Bromobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Bromodichloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Bromoform	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Bromomethane	ND	0.000715	0.00357		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
2-Butanone	ND	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Carbon tetrachloride	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Chlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Chloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Chloroform	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Chloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
2-Chlorotoluene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Carbon disulfide	ND	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
4-Chlorotoluene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
cis-1,2-DCE	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
cis-1,3-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2-Dibromo-3-chloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Dibromochloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Dibromomethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,3-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,4-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Dichlorodifluoromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1-Dichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0030
Project: Kirtland AFB
Collection Date: 7/18/2014 10:12:00 AM
Lab ID: 1407901-003
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,3-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
2,2-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Hexachlorobutadiene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Isopropylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
4-Isopropyltoluene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Methylene chloride	ND	0.00143	0.00357		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
n-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
2-Hexanone	ND	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
n-Propylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
sec-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Styrene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
4-Methyl-2-pentanone	ND	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
tert-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1,1,2-Tetrachloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1,2,2-Tetrachloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Tetrachloroethene (PCE)	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
trans-1,2-DCE	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
trans-1,3-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2,3-Trichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2,4-Trichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1,1-Trichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,1,2-Trichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Trichloroethene (TCE)	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Trichlorofluoromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
1,2,3-Trichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Vinyl chloride	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Vinyl acetate	ND	0.00715	0.00715		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Bromochloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	7/18/2014 7:29:42 PM	14314
Surr: 1,2-Dichloroethane-d4	97.8	0	70-130		%REC	1	7/18/2014 7:29:42 PM	14314
Surr: 4-Bromofluorobenzene	99.9	0	65.3-135		%REC	1	7/18/2014 7:29:42 PM	14314
Surr: Dibromofluoromethane	89.4	0	70-130		%REC	1	7/18/2014 7:29:42 PM	14314
Surr: Toluene-d8	98.7	0	70-130		%REC	1	7/18/2014 7:29:42 PM	14314
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.52	4.0		mg/Kg-dr	1	7/21/2014 2:25:00 PM	R20042
Surr: BFB	114	0	61.2-137		%REC	1	7/21/2014 2:25:00 PM	R20042

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0031
Project: Kirtland AFB
Collection Date: 7/18/2014 12:09:00 PM
Lab ID: 1407901-004
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.3	11		mg/Kg-dr	1	7/18/2014 8:39:37 PM	14301
Motor Oil Range Organics (MRO)	ND	57	57		mg/Kg-dr	1	7/18/2014 8:39:37 PM	14301
Surr: DNOP	83.2	0	57.9-140		%REC	1	7/18/2014 8:39:37 PM	14301
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	12	1.0	1.0		wt%	1	7/18/2014 5:09:00 PM	R20010
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	5.2	0.42	0.57		mg/Kg-dr	2	7/21/2014 3:01:50 PM	14317
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Acenaphthylene	ND	0.055	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Aniline	ND	0.067	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Anthracene	ND	0.049	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Benz(a)anthracene	ND	0.061	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Benzo(a)pyrene	ND	0.068	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Benzo(b)fluoranthene	ND	0.077	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Benzo(g,h,i)perylene	ND	0.068	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Benzo(k)fluoranthene	ND	0.086	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Bis(2-chloroethoxy)methane	ND	0.076	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Bis(2-chloroethyl)ether	ND	0.090	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Bis(2-chloroisopropyl)ether	ND	0.042	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Bis(2-ethylhexyl)phthalate	ND	0.076	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Bromophenyl phenyl ether	ND	0.057	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Butyl benzyl phthalate	ND	0.048	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Carbazole	ND	0.051	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Chloro-3-methylphenol	ND	0.060	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Chloroaniline	ND	0.060	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Chlorophenol	ND	0.070	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Chlorophenyl phenyl ether	ND	0.064	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Chrysene	ND	0.057	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Di-n-butyl phthalate	ND	0.051	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Dibenz(a,h)anthracene	ND	0.067	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Dibenzofuran	ND	0.076	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
1,2-Dichlorobenzene	ND	0.044	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
1,3-Dichlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
1,4-Dichlorobenzene	ND	0.070	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0031
Project: Kirtland AFB
Collection Date: 7/18/2014 12:09:00 PM
Lab ID: 1407901-004
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.051	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Dimethyl phthalate	ND	0.063	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,6-Dinitrotoluene	ND	0.067	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Fluoranthene	ND	0.051	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Fluorene	ND	0.066	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Hexachlorobenzene	ND	0.061	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Hexachlorobutadiene	ND	0.054	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Hexachlorocyclopentadiene	ND	0.073	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Hexachloroethane	ND	0.079	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Indeno(1,2,3-cd)pyrene	ND	0.075	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Methylnaphthalene	ND	0.067	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Methylphenol	ND	0.065	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
3+4-Methylphenol	ND	0.076	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
N-Nitrosodi-n-propylamine	ND	0.075	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
N-Nitrosodimethylamine	ND	0.085	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
N-Nitrosodiphenylamine	ND	0.066	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Naphthalene	ND	0.054	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Nitroaniline	ND	0.054	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
3-Nitroaniline	ND	0.066	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2-Nitrophenol	ND	0.062	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Phenanthrene	ND	0.041	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Phenol	ND	0.066	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Pyrene	ND	0.061	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
1,2,4-Trichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4,5-Trichlorophenol	ND	0.050	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
2,4,6-Trichlorophenol	ND	0.062	0.23		mg/Kg-dr	1	7/21/2014 2:05:33 PM	14320
Surr: 2-Fluorophenol	60.7		21-111		%REC	1	7/21/2014 2:05:33 PM	14320
Surr: Phenol-d5	61.2		23.1-117		%REC	1	7/21/2014 2:05:33 PM	14320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0031
Project: Kirtland AFB
Collection Date: 7/18/2014 12:09:00 PM
Lab ID: 1407901-004
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	58.6		22.7-88.9		%REC	1	7/21/2014 2:05:33 PM	14320
Surr: Nitrobenzene-d5	66.9		24.5-126		%REC	1	7/21/2014 2:05:33 PM	14320
Surr: 2-Fluorobiphenyl	69.3		21.2-129		%REC	1	7/21/2014 2:05:33 PM	14320
Surr: 4-Terphenyl-d14	70.0		39.4-107		%REC	1	7/21/2014 2:05:33 PM	14320
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.00248	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Toluene	0.00323	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Ethylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Xylenes, Total	0.00244	0.00163	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Methyl tert-butyl ether (MTBE)	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2,4-Trimethylbenzene	0.00102	0.000813	0.00163	J	mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,3,5-Trimethylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2-Dichloroethane (EDC)	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2-Dibromoethane (EDB)	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Naphthalene	ND	0.00163	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Acetone	0.0124	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Bromobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Bromodichloromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Bromoform	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Bromomethane	ND	0.000813	0.00407		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
2-Butanone	ND	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Carbon tetrachloride	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Chlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Chloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Chloroform	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Chloromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
2-Chlorotoluene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Carbon disulfide	ND	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
4-Chlorotoluene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
cis-1,2-DCE	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
cis-1,3-Dichloropropene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2-Dibromo-3-chloropropane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Dibromochloromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Dibromomethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2-Dichlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,3-Dichlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,4-Dichlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Dichlorodifluoromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1-Dichloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0031
Project: Kirtland AFB
Collection Date: 7/18/2014 12:09:00 PM
Lab ID: 1407901-004
Matrix: MEOH (SOIL)
Received Date: 7/18/2014 4:35:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2-Dichloropropane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,3-Dichloropropane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
2,2-Dichloropropane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1-Dichloropropene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Hexachlorobutadiene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Isopropylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
4-Isopropyltoluene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Methylene chloride	ND	0.00163	0.00407		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
n-Butylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
2-Hexanone	ND	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
n-Propylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
sec-Butylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Styrene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
4-Methyl-2-pentanone	ND	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
tert-Butylbenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1,1,2-Tetrachloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1,2,2-Tetrachloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Tetrachloroethene (PCE)	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
trans-1,2-DCE	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
trans-1,3-Dichloropropene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2,3-Trichlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2,4-Trichlorobenzene	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1,1-Trichloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,1,2-Trichloroethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Trichloroethene (TCE)	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Trichlorofluoromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
1,2,3-Trichloropropane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Vinyl chloride	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Vinyl acetate	ND	0.00813	0.00813		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Bromochloromethane	ND	0.000813	0.00163		mg/Kg-dr	1	7/18/2014 7:59:29 PM	14314
Surr: 1,2-Dichloroethane-d4	97.7	0	70-130		%REC	1	7/18/2014 7:59:29 PM	14314
Surr: 4-Bromofluorobenzene	95.4	0	65.3-135		%REC	1	7/18/2014 7:59:29 PM	14314
Surr: Dibromofluoromethane	91.0	0	70-130		%REC	1	7/18/2014 7:59:29 PM	14314
Surr: Toluene-d8	96.1	0	70-130		%REC	1	7/18/2014 7:59:29 PM	14314
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.58	4.4		mg/Kg-dr	1	7/21/2014 2:53:12 PM	R20042
Surr: BFB	112	0	61.2-137		%REC	1	7/21/2014 2:53:12 PM	R20042

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14301**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14301**	RunNo: **19974**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.4		10.00		73.9	57.9	140			

Sample ID **LCS-14301**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14301**	RunNo: **19974**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581082** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.6	68.6	130			
Surr: DNOP	4.0		5.000		79.6	57.9	140			

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14314**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581515** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	ND	0.00200								
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14314**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581515** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0218		0.02000		109	70	130			
Surr: 4-Bromofluorobenzene	0.0191		0.02000		95.7	65.3	135			
Surr: Dibromofluoromethane	0.0186		0.02000		92.9	70	130			
Surr: Toluene-d8	0.0198		0.02000		98.9	70	130			

Sample ID **LCS-14314**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0103	0.00200	0.01000	0	103	70	130			
Toluene	0.00942	0.00200	0.01000	0	94.2	70	130			
Chlorobenzene	0.00951	0.00200	0.01000	0	95.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-14314**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00931	0.00200	0.01000	0	93.1	70	130			
Trichloroethene (TCE)	0.00966	0.00200	0.01000	0	96.6	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0202		0.02000		101	70	130			
Surr: 4-Bromofluorobenzene	0.0202		0.02000		101	65.3	135			
Surr: Dibromofluoromethane	0.0183		0.02000		91.5	70	130			
Surr: Toluene-d8	0.0186		0.02000		92.8	70	130			

Sample ID **1407901-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0028**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581519** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00759	0.00153	0.007627	0	99.6	70	130			
Toluene	0.00752	0.00153	0.007627	0	98.6	70	130			
Chlorobenzene	0.00725	0.00153	0.007627	0	95.0	70	130			
1,1-Dichloroethene	0.00697	0.00153	0.007627	0	91.3	70	130			
Trichloroethene (TCE)	0.00771	0.00153	0.007627	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	0.0169		0.01525		111	70	130			
Surr: 4-Bromofluorobenzene	0.0148		0.01525		97.3	65.3	135			
Surr: Dibromofluoromethane	0.0136		0.01525		88.9	70	130			
Surr: Toluene-d8	0.0145		0.01525		94.8	70	130			

Sample ID **1407901-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0028**	Batch ID: **14314**	RunNo: **20013**
Prep Date: **7/18/2014**	Analysis Date: **7/18/2014**	SeqNo: **581520** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00739	0.00154	0.007693	0	96.1	70	130	2.67	20	
Toluene	0.00706	0.00154	0.007693	0	91.8	70	130	6.28	20	
Chlorobenzene	0.00683	0.00154	0.007693	0	88.8	70	130	5.94	20	
1,1-Dichloroethene	0.00662	0.00154	0.007693	0	86.0	70	130	5.16	20	
Trichloroethene (TCE)	0.00730	0.00154	0.007693	0	94.9	70	130	5.44	20	
Surr: 1,2-Dichloroethane-d4	0.0185		0.01539		120	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0142		0.01539		92.5	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0143		0.01539		93.2	70	130	0	0	
Surr: Toluene-d8	0.0148		0.01539		96.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14320**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14320**	RunNo: **20043**
Prep Date: **7/20/2014**	Analysis Date: **7/21/2014**	SeqNo: **582415** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	0.093	0.50								J
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14320**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14320**	RunNo: **20043**
Prep Date: **7/20/2014**	Analysis Date: **7/21/2014**	SeqNo: **582415** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.9		3.330		87.9	21	111			
Surr: Phenol-d5	3.0		3.330		90.6	23.1	117			
Surr: 2,4,6-Tribromophenol	3.1		3.330		93.8	22.7	88.9			S
Surr: Nitrobenzene-d5	1.6		1.670		97.7	24.5	126			
Surr: 2-Fluorobiphenyl	1.7		1.670		99.1	21.2	129			
Surr: 4-Terphenyl-d14	1.5		1.670		92.6	39.4	107			

Sample ID **lcs-14320**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14320**	RunNo: **20043**
Prep Date: **7/20/2014**	Analysis Date: **7/21/2014**	SeqNo: **582416** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14320**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14320**	RunNo: **20043**
Prep Date: **7/20/2014**	Analysis Date: **7/21/2014**	SeqNo: **582416** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.20	1.670	0	96.2	50.7	110			
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	97.6	47.8	107			
2-Chlorophenol	3.1	0.20	3.330	0	93.8	45.7	108			
1,4-Dichlorobenzene	1.5	0.20	1.670	0	87.8	46.1	112			
2,4-Dinitrotoluene	1.4	0.50	1.670	0	81.7	44.9	114			
N-Nitrosodi-n-propylamine	1.3	0.20	1.670	0	78.4	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	90.4	40.2	103			
Pentachlorophenol	2.7	0.40	3.330	0	80.1	32.9	94			
Phenol	3.2	0.20	3.330	0	96.7	44.1	109			
Pyrene	1.5	0.20	1.670	0	92.6	51.9	109			
1,2,4-Trichlorobenzene	1.5	0.20	1.670	0	88.1	49.5	115			
Surr: 2-Fluorophenol	2.8		3.330		83.2	21	111			
Surr: Phenol-d5	2.9		3.330		88.5	23.1	117			
Surr: 2,4,6-Tribromophenol	2.8		3.330		85.5	22.7	88.9			
Surr: Nitrobenzene-d5	1.5		1.670		91.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		92.6	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		83.3	39.4	107			

Sample ID **1407901-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0028**	Batch ID: **14320**	RunNo: **20043**
Prep Date: **7/20/2014**	Analysis Date: **7/21/2014**	SeqNo: **582428** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.6	0.21	1.791	0	89.1	53.8	92.8			
4-Chloro-3-methylphenol	3.2	0.54	3.572	0	89.4	34.9	104			
2-Chlorophenol	3.2	0.21	3.572	0	89.6	18.2	105			
1,4-Dichlorobenzene	1.4	0.21	1.791	0	78.5	18.1	112			
2,4-Dinitrotoluene	1.4	0.54	1.791	0	78.2	22	144			
N-Nitrosodi-n-propylamine	1.4	0.21	1.791	0	79.4	58.6	101			
4-Nitrophenol	3.0	0.27	3.572	0	82.6	13.7	127			
Pentachlorophenol	2.4	0.43	3.572	0	68.5	16.5	107			
Phenol	3.4	0.21	3.572	0	95.7	12.5	114			
Pyrene	1.8	0.21	1.791	0	101	14.2	116			
1,2,4-Trichlorobenzene	1.4	0.21	1.791	0	77.1	16	125			
Surr: 2-Fluorophenol	2.6		3.572		72.3	21	111			
Surr: Phenol-d5	2.6		3.572		73.9	23.1	117			
Surr: 2,4,6-Tribromophenol	2.7		3.572		74.5	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.791		78.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.4		1.791		77.8	21.2	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1407901-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0028**	Batch ID:	**14320**		RunNo:	**20043**				
Prep Date:	**7/20/2014**	Analysis Date:	**7/21/2014**		SeqNo:	**582428**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.4		1.791		78.9	39.4	107			

Sample ID	**1407901-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0028**	Batch ID:	**14320**		RunNo:	**20043**				
Prep Date:	**7/20/2014**	Analysis Date:	**7/21/2014**		SeqNo:	**582429**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.21	1.795	0	85.5	53.8	92.8	3.96	22	
4-Chloro-3-methylphenol	3.5	0.54	3.579	0	97.2	34.9	104	8.63	27.3	
2-Chlorophenol	2.9	0.21	3.579	0	81.0	18.2	105	9.89	26.3	
1,4-Dichlorobenzene	1.3	0.21	1.795	0	74.4	18.1	112	5.15	27.4	
2,4-Dinitrotoluene	1.5	0.54	1.795	0	85.5	22	144	9.05	27.4	
N-Nitrosodi-n-propylamine	1.3	0.21	1.795	0	72.1	58.6	101	9.45	22.6	
4-Nitrophenol	3.3	0.27	3.579	0	91.3	13.7	127	10.2	20	
Pentachlorophenol	2.5	0.43	3.579	0	70.5	16.5	107	3.11	27.1	
Phenol	3.0	0.21	3.579	0	82.7	12.5	114	14.4	32.2	
Pyrene	1.8	0.21	1.795	0	98.0	14.2	116	3.16	29.5	
1,2,4-Trichlorobenzene	1.3	0.21	1.795	0	73.8	16	125	4.25	27.8	
Surr: 2-Fluorophenol	2.3		3.579		64.4	21	111	0	0	
Surr: Phenol-d5	2.5		3.579		69.3	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	2.7		3.579		76.7	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.3		1.795		73.9	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.3		1.795		73.5	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.4		1.795		80.0	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14317**	SampType: **MBLK**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID: **14317**			RunNo: **20030**					
Prep Date:	**7/19/2014**	Analysis Date: **7/21/2014**			SeqNo: **582092**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14317**	SampType: **LCS**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID: **14317**			RunNo: **20030**					
Prep Date:	**7/19/2014**	Analysis Date: **7/21/2014**			SeqNo: **582093**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	22	0.25	25.00	0	89.4	80	120			

Sample ID	**1407901-001AMS**	SampType: **MS**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**FFOR-CF-0028**	Batch ID: **14317**			RunNo: **20030**					
Prep Date:	**7/19/2014**	Analysis Date: **7/21/2014**			SeqNo: **582096**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	19	0.27	26.55	2.029	63.9	75	125			S

Sample ID	**1407901-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**FFOR-CF-0028**	Batch ID: **14317**			RunNo: **20030**					
Prep Date:	**7/19/2014**	Analysis Date: **7/21/2014**			SeqNo: **582097**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	20	0.27	26.72	2.029	68.7	75	125	6.95	20	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407901**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20042**	RunNo: **20042**
Prep Date:	Analysis Date: **7/21/2014**	SeqNo: **582436** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.8	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20042**	RunNo: **20042**
Prep Date:	Analysis Date: **7/21/2014**	SeqNo: **582448** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	490		500.0		97.5	61.2	137			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407901 RcptNo: 1

Received by/date: 07/18/14

Logged By: Lindsay Mangin 7/18/2014 4:35:00 PM

Completed By: Lindsay Mangin 7/18/2014 4:21:06 PM

Reviewed By: 07/18/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 18 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: /

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/18/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 7/18/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 4.2°C	Date: 07/18/14 Time: 1430 1631
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: ALL PID HEADSPACE MEASUREMENTS 0.0 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0028	FFOR-EXC-26-DS-FFOR-CF-0028-REG	18 JUL 2014	09:52	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		140701-
FFOR-CF-0028	FFOR-EXC-26-DS-FFOR-CF-0028-REG	18 JUL 2014	09:52	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-00
FFOR-CF-0029	FFOR-EXC-27-DS-FFOR-CF-0029-REG	18 JUL 2014	10:01	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0029	FFOR-EXC-27-DS-FFOR-CF-0029-REG	18 JUL 2014	10:01	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-002
FFOR-CF-0030	FFOR-EXC-28-DS-FFOR-CF-0030-REG	18 JUL 2014	10:12	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-003

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					
FFOR-CF-0030	FFOR-EXC-28-DS-FFOR-CF-0030-REG	18 JUL 2014	10:12	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
FFOR-CF-0031	FFOR-EXC-29-DS-FFOR-CF-0031-REG	18 JUL 2014	12:09	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-004
FFOR-CF-0031	FFOR-EXC-29-DS-FFOR-CF-0031-REG	18 JUL 2014	12:09	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 25, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1407965

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0078
Project: Kirtland AFB
Collection Date: 7/21/2014 11:15:00 AM
Lab ID: 1407965-001
Matrix: SOIL
Received Date: 7/21/2014 3:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.8	1.0	1.0		wt%	1	7/22/2014 4:14:00 PM	R20087
EPA METHOD 8270C: PAHS							Analyst: **JDC**	
Naphthalene	ND	0.012	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
1-Methylnaphthalene	ND	0.012	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
2-Methylnaphthalene	ND	0.013	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Acenaphthylene	0.093	0.013	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Acenaphthene	ND	0.014	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Fluorene	ND	0.015	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Phenanthrene	0.042	0.012	0.043	J	mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Anthracene	0.13	0.013	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Fluoranthene	0.58	0.013	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Pyrene	0.51	0.011	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Benz(a)anthracene	0.63	0.011	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Chrysene	0.71	0.0077	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Benzo(b)fluoranthene	1.4	0.014	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Benzo(k)fluoranthene	0.51	0.017	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Benzo(a)pyrene	0.95	0.016	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Dibenz(a,h)anthracene	0.16	0.016	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Benzo(g,h,i)perylene	0.73	0.012	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Indeno(1,2,3-cd)pyrene	0.65	0.015	0.043		mg/Kg-dr	1	7/23/2014 9:47:36 AM	14353
Surr: N-hexadecane	67.9	0	27-106		%REC	1	7/23/2014 9:47:36 AM	14353
Surr: Benzo(e)pyrene	168	0	34.7-131	S	%REC	1	7/23/2014 9:47:36 AM	14353

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407965**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14353**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **14353**	RunNo: **20084**
Prep Date: **7/22/2014**	Analysis Date: **7/23/2014**	SeqNo: **583904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.72		1.460		49.5	27	106			
Surr: Benzo(e)pyrene	0.18		0.3300		53.9	34.7	131			

Sample ID **lcs-14353**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14353**	RunNo: **20084**
Prep Date: **7/22/2014**	Analysis Date: **7/23/2014**	SeqNo: **583905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.17	0.020	0.3300	0	51.9	50.1	116			
1-Methylnaphthalene	0.18	0.020	0.3300	0	56.0	50.8	121			
2-Methylnaphthalene	0.17	0.020	0.3300	0	52.9	50.4	120			
Acenaphthylene	0.18	0.020	0.3300	0	54.8	53	112			
Acenaphthene	0.18	0.020	0.3300	0	55.4	51.4	112			
Fluorene	0.19	0.020	0.3300	0	57.2	51	116			
Phenanthrene	0.20	0.020	0.3300	0	59.9	46.3	120			
Anthracene	0.19	0.020	0.3300	0	59.0	46.4	118			
Fluoranthene	0.20	0.020	0.3300	0	60.8	46.4	123			
Pyrene	0.20	0.020	0.3300	0	60.4	43.3	122			
Benz(a)anthracene	0.20	0.020	0.3300	0	61.3	44.3	118			
Chrysene	0.22	0.020	0.3300	0	66.8	45.5	116			
Benzo(b)fluoranthene	0.20	0.020	0.3300	0	61.2	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407965**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14353**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14353**	RunNo: **20084**
Prep Date: **7/22/2014**	Analysis Date: **7/23/2014**	SeqNo: **583905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.21	0.020	0.3300	0	63.0	49.7	117			
Benzo(a)pyrene	0.19	0.020	0.3300	0	56.5	50.8	111			
Dibenz(a,h)anthracene	0.22	0.020	0.3300	0	66.9	49.8	127			
Benzo(g,h,i)perylene	0.19	0.020	0.3300	0	56.7	46.4	122			
Indeno(1,2,3-cd)pyrene	0.20	0.020	0.3300	0	59.1	50.1	120			
Surr: N-hexadecane	0.81		1.460		55.7	27	106			
Surr: Benzo(e)pyrene	0.21		0.3300		63.0	34.7	131			

Sample ID **1407965-001AMS**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0078**	Batch ID: **14353**	RunNo: **20084**
Prep Date: **7/22/2014**	Analysis Date: **7/23/2014**	SeqNo: **583907** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.28	0.043	0.3543	0	78.6	42.6	115			
1-Methylnaphthalene	0.27	0.043	0.3543	0	76.0	42.4	122			
2-Methylnaphthalene	0.27	0.043	0.3543	0	75.2	45.2	120			
Acenaphthylene	0.38	0.043	0.3543	0.09315	80.4	39.7	116			
Acenaphthene	0.23	0.043	0.3543	0	66.3	41.4	119			
Fluorene	0.25	0.043	0.3543	0	69.5	44.2	123			
Phenanthrene	0.31	0.043	0.3543	0.04156	74.7	48	120			
Anthracene	0.43	0.043	0.3543	0.1297	85.2	43.8	120			
Fluoranthene	0.99	0.043	0.3543	0.5818	114	54	125			
Pyrene	0.95	0.043	0.3543	0.5059	125	55	120			S
Benz(a)anthracene	1.0	0.043	0.3543	0.6284	111	50.9	125			
Chrysene	1.1	0.043	0.3543	0.7072	115	45.3	127			
Benzo(b)fluoranthene	1.8	0.043	0.3543	1.390	107	49.3	131			E
Benzo(k)fluoranthene	0.86	0.043	0.3543	0.5123	97.8	50.6	127			
Benzo(a)pyrene	1.5	0.043	0.3543	0.9537	142	53.8	117			ES
Dibenz(a,h)anthracene	0.45	0.043	0.3543	0.1591	82.6	52	130			
Benzo(g,h,i)perylene	1.1	0.043	0.3543	0.7316	113	49.4	123			
Indeno(1,2,3-cd)pyrene	1.0	0.043	0.3543	0.6456	101	49.5	124			
Surr: N-hexadecane	1.3		1.568		82.0	27	106			
Surr: Benzo(e)pyrene	0.76		0.3543		214	34.7	131			S

Sample ID **1407965-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0078**	Batch ID: **14353**	RunNo: **20084**
Prep Date: **7/22/2014**	Analysis Date: **7/23/2014**	SeqNo: **583908** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.31	0.043	0.3568	0	87.9	42.6	115	11.9	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407965**

25-Jul-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1407965-001AMSD** SampType: **MSD** TestCode: **EPA Method 8270C: PAHs**

Client ID: **FFOR-CF-0078** Batch ID: **14353** RunNo: **20084**

Prep Date: **7/22/2014** Analysis Date: **7/23/2014** SeqNo: **583908** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.33	0.043	0.3568	0	92.1	42.4	122	19.9	20	
2-Methylnaphthalene	0.30	0.043	0.3568	0	83.8	45.2	120	11.6	21.2	
Acenaphthylene	0.72	0.043	0.3568	0.09315	177	39.7	116	62.9	20	RS
Acenaphthene	0.30	0.043	0.3568	0	83.0	41.4	119	23.1	20.5	R
Fluorene	0.32	0.043	0.3568	0	89.9	44.2	123	26.3	20	R
Phenanthrene	0.61	0.043	0.3568	0.04156	158	48	120	65.8	22	RS
Anthracene	0.82	0.043	0.3568	0.1297	193	43.8	120	61.7	26.6	RS
Fluoranthene	4.2	0.043	0.3568	0.5818	1020	54	125	124	23.7	ERS
Pyrene	5.4	0.043	0.3568	0.5059	1360	55	120	140	29.3	ERS
Benz(a)anthracene	3.5	0.043	0.3568	0.6284	803	50.9	125	109	25.4	ERS
Chrysene	4.2	0.043	0.3568	0.7072	965	45.3	127	115	27.6	ERS
Benzo(b)fluoranthene	4.4	0.043	0.3568	1.390	845	49.3	131	85.4	20	ERS
Benzo(k)fluoranthene	1.7	0.043	0.3568	0.5123	336	50.6	127	66.2	31.3	ERS
Benzo(a)pyrene	3.7	0.043	0.3568	0.9537	766	53.8	117	86.7	22.1	ERS
Dibenz(a,h)anthracene	0.66	0.043	0.3568	0.1591	141	52	130	37.8	21.2	RS
Benzo(g,h,i)perylene	2.7	0.043	0.3568	0.7316	556	49.4	123	82.3	25.9	ERS
Indeno(1,2,3-cd)pyrene	2.3	0.043	0.3568	0.6456	450	49.5	124	76.6	20.4	ERS
Surr: N-hexadecane	1.3		1.579		83.5	27	106	0	0	
Surr: Benzo(e)pyrene	1.4		0.3568		403	34.7	131	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1407965 RcptNo: 1

Received by/date: KM 07/21/14

Logged By: **Ashley Gallegos** 7/21/2014 3:50:00 PM

Completed By: **Ashley Gallegos** 7/21/2014 3:54:31 PM

Reviewed By: CS 07/21/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.4	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-
Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 21 JUL 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.:

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 7/21/14 Time: 1530	1. Received By (Signature/Affiliation)	Date: 7/21/14 Time: 1530
2. Relinquished By (Signature/Affiliation)	Date: 7/21/14 Time:	2. Received By (Signature/Affiliation)	Date: 07/21/14 Time: 1550
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE = 0.7 PPM IN FFOR-CF-0078

6.4°C

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0078	FFOR-EXCSO-01-SO-FFOR-CF-0078-RE	21 JUL 2014	11:15	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		1407965

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 14, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408347

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/7/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408347**
Date: **8/14/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0042
Project: Kirtland AFB
Collection Date: 8/7/2014 10:26:00 AM
Lab ID: 1408347-001
Matrix: MEOH (SOIL)
Received Date: 8/7/2014 4:48:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	650	6.0	11		mg/Kg-dr	1	8/11/2014 2:21:17 PM	14665
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	8/11/2014 2:21:17 PM	14665
Surr: DNOP	93.5	0	57.9-140		%REC	1	8/11/2014 2:21:17 PM	14665
PERCENT MOISTURE							Analyst: **KJH**	
Percent Moisture	9.5	1.0	1.0		wt%	1	8/8/2014 11:59:00 AM	R20489
EPA METHOD 6010B: SOIL METALS							Analyst: **JLF**	
Lead	8.6	0.62	1.4		mg/Kg-dr	5	8/11/2014 12:09:19 PM	14674
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Aniline	ND	0.066	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Benz(a)anthracene	0.13	0.060	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Benzo(a)pyrene	0.12	0.067	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Benzo(b)fluoranthene	0.20	0.076	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Benzo(g,h,i)perylene	0.23	0.067	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Bis(2-ethylhexyl)phthalate	ND	0.075	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Chloro-3-methylphenol	ND	0.059	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Chloroaniline	ND	0.059	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Chrysene	0.11	0.056	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Di-n-butyl phthalate	0.066	0.050	0.55	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0042
Project: Kirtland AFB
Collection Date: 8/7/2014 10:26:00 AM
Lab ID: 1408347-001
Matrix: MEOH (SOIL)
Received Date: 8/7/2014 4:48:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4-Dinitrotoluene	ND	0.082	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,6-Dinitrotoluene	ND	0.066	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Fluoranthene	0.12	0.050	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Indeno(1,2,3-cd)pyrene	0.28	0.073	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Isophorone	ND	0.073	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Methylnaphthalene	1.5	0.066	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Naphthalene	0.52	0.053	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Nitrobenzene	ND	0.062	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Pentachlorophenol	ND	0.090	0.44		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Phenanthrene	0.058	0.040	0.22	J	mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Phenol	ND	0.065	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Pyrene	0.27	0.060	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	8/12/2014 1:14:58 PM	14682
Surr: 2-Fluorophenol	80.8		21-111		%REC	1	8/12/2014 1:14:58 PM	14682
Surr: Phenol-d5	84.9		23.1-117		%REC	1	8/12/2014 1:14:58 PM	14682

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	108		22.7-88.9	S	%REC	1	8/12/2014 1:14:58 PM	14682
Surr: Nitrobenzene-d5	92.5		24.5-126		%REC	1	8/12/2014 1:14:58 PM	14682
Surr: 2-Fluorobiphenyl	100		21.2-129		%REC	1	8/12/2014 1:14:58 PM	14682
Surr: 4-Terphenyl-d14	100		39.4-107		%REC	1	8/12/2014 1:14:58 PM	14682
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.044	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Toluene	ND	0.044	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Ethylbenzene	ND	0.043	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Methyl tert-butyl ether (MTBE)	ND	0.15	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2,4-Trimethylbenzene	1.0	0.049	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,3,5-Trimethylbenzene	0.50	0.043	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2-Dichloroethane (EDC)	ND	0.066	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2-Dibromoethane (EDB)	ND	0.046	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Naphthalene	0.84	0.033	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Acetone	ND	0.39	6.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Bromobenzene	ND	0.063	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Bromodichloromethane	ND	0.052	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Bromoform	ND	0.038	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Bromomethane	ND	0.058	1.2		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
2-Butanone	ND	0.18	4.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Carbon disulfide	ND	0.11	4.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Carbon tetrachloride	ND	0.056	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Chlorobenzene	ND	0.044	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Chloroethane	ND	0.067	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Chloroform	ND	0.14	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Chloromethane	ND	0.037	1.2		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
2-Chlorotoluene	ND	0.036	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
4-Chlorotoluene	ND	0.12	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
cis-1,2-DCE	ND	0.037	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
cis-1,3-Dichloropropene	ND	0.050	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2-Dibromo-3-chloropropane	ND	0.055	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Dibromochloromethane	ND	0.039	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Dibromomethane	ND	0.046	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,3-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,4-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Dichlorodifluoromethane	ND	0.097	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1-Dichloroethane	ND	0.028	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1-Dichloroethene	ND	0.032	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480

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Matrix: MEOH (SOIL)
Received Date: 8/7/2014 4:48:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
1,2-Dichloropropane	ND	0.036	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,3-Dichloropropane	ND	0.075	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
2,2-Dichloropropane	ND	0.043	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1-Dichloropropene	ND	0.062	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Hexachlorobutadiene	ND	0.059	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
2-Hexanone	ND	0.19	4.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Isopropylbenzene	ND	0.032	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
4-Isopropyltoluene	0.27	0.036	0.40	J	mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
4-Methyl-2-pentanone	ND	0.16	4.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Methylene chloride	ND	0.038	1.2		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
n-Butylbenzene	ND	0.035	1.2		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
n-Propylbenzene	ND	0.040	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
sec-Butylbenzene	ND	0.039	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Styrene	ND	0.031	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
tert-Butylbenzene	ND	0.044	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1,1,2-Tetrachloroethane	ND	0.048	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1,2,2-Tetrachloroethane	ND	0.067	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Tetrachloroethene (PCE)	ND	0.049	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
trans-1,2-DCE	ND	0.045	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
trans-1,3-Dichloropropene	ND	0.055	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2,3-Trichlorobenzene	ND	0.045	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2,4-Trichlorobenzene	ND	0.045	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1,1-Trichloroethane	ND	0.040	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,1,2-Trichloroethane	ND	0.049	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Trichloroethene (TCE)	ND	0.056	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Trichlorofluoromethane	ND	0.042	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
1,2,3-Trichloropropane	ND	0.061	0.80		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Vinyl chloride	ND	0.033	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Xylenes, Total	0.28	0.12	0.80	J	mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Bromochloromethane	ND	0.18	0.40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Vinyl acetate	ND	4.0	4.0		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Surr: Dibromofluoromethane	88.4	0	70-130		%REC	10	8/8/2014 2:12:01 PM	R20480
Surr: 1,2-Dichloroethane-d4	87.7	0	70-130		%REC	10	8/8/2014 2:12:01 PM	R20480
Surr: Toluene-d8	88.6	0	70-130		%REC	10	8/8/2014 2:12:01 PM	R20480
Surr: 4-Bromofluorobenzene	106	0	70-130		%REC	10	8/8/2014 2:12:01 PM	R20480
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	290	5.2	40		mg/Kg-dr	10	8/8/2014 2:12:01 PM	R20480
Surr: BFB	108	0	61.2-137		%REC	10	8/8/2014 2:12:01 PM	R20480

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408347-002
Matrix: MEOH BLAN
Received Date: 8/7/2014 4:48:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Toluene	ND	0.0055	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Acetone	ND	0.049	0.75		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
2-Butanone	ND	0.023	0.50		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Chloroform	ND	0.017	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408347-002
Matrix: MEOH BLAN
Received Date: 8/7/2014 4:48:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Methylene chloride	0.016	0.0047	0.15	J	mg/Kg	1	8/8/2014 2:40:05 PM	R20480
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Styrene	ND	0.0039	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/8/2014 2:40:05 PM	R20480
Surr: Dibromofluoromethane	89.5	0	70-130		%REC	1	8/8/2014 2:40:05 PM	R20480
Surr: 1,2-Dichloroethane-d4	84.2	0	70-130		%REC	1	8/8/2014 2:40:05 PM	R20480
Surr: Toluene-d8	90.2	0	70-130		%REC	1	8/8/2014 2:40:05 PM	R20480
Surr: 4-Bromofluorobenzene	82.3	0	70-130		%REC	1	8/8/2014 2:40:05 PM	R20480

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14665**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14665**	RunNo: **20455**
Prep Date: **8/8/2014**	Analysis Date: **8/8/2014**	SeqNo: **595005** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	57.9	140			

Sample ID **LCS-14665**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14665**	RunNo: **20455**
Prep Date: **8/8/2014**	Analysis Date: **8/8/2014**	SeqNo: **595061** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.0	68.6	130			
Surr: DNOP	4.8		5.000		95.5	57.9	140			

Sample ID **1408347-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0042**	Batch ID: **14665**	RunNo: **20495**
Prep Date: **8/8/2014**	Analysis Date: **8/11/2014**	SeqNo: **595925** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	920	11	54.82	653.0	485	40.1	152			S
Surr: DNOP	5.4		5.482		97.6	57.9	140			

Sample ID **1408347-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0042**	Batch ID: **14665**	RunNo: **20495**
Prep Date: **8/8/2014**	Analysis Date: **8/11/2014**	SeqNo: **595930** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	670	11	55.10	653.0	24.9	40.1	152	31.8	32.1	S
Surr: DNOP	5.3		5.510		96.7	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20480**	RunNo: **20480**
Prep Date:	Analysis Date: **8/8/2014**	SeqNo: **595566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	0.069	0.75								J
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.10	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20480**	RunNo: **20480**
Prep Date:	Analysis Date: **8/8/2014**	SeqNo: **595566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	0.033	0.50								J
Methylene chloride	0.014	0.15								J
n-Butylbenzene	0.0075	0.15								J
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.42		0.5000		84.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.6	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.5000		80.3	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20480**	RunNo: **20480**
Prep Date:	Analysis Date: **8/8/2014**	SeqNo: **595602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	70	130			
Toluene	1.0	0.050	1.000	0	101	60.1	120			
Chlorobenzene	0.96	0.050	1.000	0	95.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20480**	RunNo: **20480**
Prep Date:	Analysis Date: **8/8/2014**	SeqNo: **595602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	120	78.2	162			
Trichloroethene (TCE)	1.1	0.050	1.000	0	108	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.46		0.5000		91.2	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		87.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14682**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14682**	RunNo: **20522**
Prep Date: **8/9/2014**	Analysis Date: **8/12/2014**	SeqNo: **596786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14682**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14682**	RunNo: **20522**
Prep Date: **8/9/2014**	Analysis Date: **8/12/2014**	SeqNo: **596786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	3.2		3.330		96.6	21	111			
Surr: Phenol-d5	3.2		3.330		97.1	23.1	117			
Surr: 2,4,6-Tribromophenol	3.3		3.330		100	22.7	88.9			S
Surr: Nitrobenzene-d5	1.7		1.670		102	24.5	126			
Surr: 2-Fluorobiphenyl	1.8		1.670		106	21.2	129			
Surr: 4-Terphenyl-d14	1.5		1.670		92.1	39.4	107			

Sample ID **lcs-14682**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14682**	RunNo: **20522**
Prep Date: **8/9/2014**	Analysis Date: **8/12/2014**	SeqNo: **596787** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14682**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14682**	RunNo: **20522**
Prep Date: **8/9/2014**	Analysis Date: **8/12/2014**	SeqNo: **596787** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	88.2	50.7	110			
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	100	47.8	107			
2-Chlorophenol	2.9	0.20	3.330	0	87.8	45.7	108			
1,4-Dichlorobenzene	1.4	0.20	1.670	0	84.8	46.1	112			
2,4-Dinitrotoluene	1.3	0.50	1.670	0	77.9	44.9	114			
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	86.1	38.7	128			
4-Nitrophenol	3.1	0.25	3.330	0	93.7	40.2	103			
Pentachlorophenol	2.9	0.40	3.330	0	85.7	32.9	94			
Phenol	3.0	0.20	3.330	0	90.5	44.1	109			
Pyrene	1.6	0.20	1.670	0	94.5	51.9	109			
1,2,4-Trichlorobenzene	1.4	0.20	1.670	0	86.7	49.5	115			
Surr: 2-Fluorophenol	2.7		3.330		81.2	21	111			
Surr: Phenol-d5	2.9		3.330		86.8	23.1	117			
Surr: 2,4,6-Tribromophenol	3.2		3.330		94.7	22.7	88.9			S
Surr: Nitrobenzene-d5	1.6		1.670		93.9	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		91.9	21.2	129			
Surr: 4-Terphenyl-d14	1.5		1.670		88.3	39.4	107			

Sample ID **lcsd-14682**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **14682**	RunNo: **20522**
Prep Date: **8/9/2014**	Analysis Date: **8/12/2014**	SeqNo: **596788** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.20	1.670	0	92.5	50.7	110	4.75	20	
4-Chloro-3-methylphenol	3.3	0.50	3.330	0	99.6	47.8	107	0.481	20	
2-Chlorophenol	2.9	0.20	3.330	0	86.2	45.7	108	1.81	20	
1,4-Dichlorobenzene	1.4	0.20	1.670	0	81.0	46.1	112	4.48	20	
2,4-Dinitrotoluene	1.3	0.50	1.670	0	78.1	44.9	114	0.333	20	
N-Nitrosodi-n-propylamine	1.4	0.20	1.670	0	83.4	38.7	128	3.18	20	
4-Nitrophenol	3.4	0.25	3.330	0	103	40.2	103	9.41	20	
Pentachlorophenol	3.4	0.40	3.330	0	102	32.9	94	17.4	20	S
Phenol	3.1	0.20	3.330	0	93.7	44.1	109	3.43	20	
Pyrene	1.7	0.20	1.670	0	103	51.9	109	8.65	20	
1,2,4-Trichlorobenzene	1.5	0.20	1.670	0	87.1	49.5	115	0.436	20	
Surr: 2-Fluorophenol	2.8		3.330		84.0	21	111	0	0	
Surr: Phenol-d5	3.2		3.330		94.6	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	3.4		3.330		103	22.7	88.9	0	0	S
Surr: Nitrobenzene-d5	1.7		1.670		101	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.7		1.670		104	21.2	129	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcsd-14682**	SampType:	**LCSD**		TestCode:	**EPA Method 8270C: Semivolatiles**					
Client ID:	**LCSS02**	Batch ID:	**14682**		RunNo:	**20522**					
Prep Date:	**8/9/2014**	Analysis Date:	**8/12/2014**		SeqNo:	**596788**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		1.7		1.670		101	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14674**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**14674**		RunNo:	**20487**				
Prep Date:	**8/8/2014**	Analysis Date:	**8/11/2014**		SeqNo:	**595743**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14674**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**14674**		RunNo:	**20487**				
Prep Date:	**8/8/2014**	Analysis Date:	**8/11/2014**		SeqNo:	**595744**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	21	0.25	25.00	0	84.3	80	120			

Sample ID	**1408347-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0042**	Batch ID:	**14674**		RunNo:	**20487**				
Prep Date:	**8/8/2014**	Analysis Date:	**8/11/2014**		SeqNo:	**595782**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	31	1.4	27.20	8.640	80.9	75	125			

Sample ID	**1408347-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0042**	Batch ID:	**14674**		RunNo:	**20487**				
Prep Date:	**8/8/2014**	Analysis Date:	**8/11/2014**		SeqNo:	**595783**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	29	1.3	26.68	8.640	75.9	75	125	5.90	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408347**

14-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**5mL-rb**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**R20480**	RunNo:	**20480**					
Prep Date:		Analysis Date:	**8/8/2014**	SeqNo:	**595633**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.1	5.0								J
Surr: BFB	540		500.0		108	61.2	137			

Sample ID	**2.5ug lcs GRO**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**R20480**	RunNo:	**20480**					
Prep Date:		Analysis Date:	**8/8/2014**	SeqNo:	**595639**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	490		500.0		98.4	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1408347** RcptNo: 1

Received by/date: 08/07/14

Logged By: **Ashley Gallegos** **8/7/2014 4:48:00 PM**

Completed By: **Ashley Gallegos** **8/7/2014 4:48:34 PM**

Reviewed By: 08/07/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.1	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 07 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/7/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/7/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: 08/07/14 Time: 1648
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0042 MEASURED AT 1,082 PPM

11.1

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0042	FFOR-EXC-39-DS-FFOR-CF-0042-REG	07 AUG 2014	10:26	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1405347-00
FFOR-CF-0042	FFOR-EXC-39-DS-FFOR-CF-0042-REG	07 AUG 2014	10:26	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		

Methanol Blank
08/07/14

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 20, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408830

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/15/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0082
Project: Kirtland AFB
Collection Date: 8/15/2014 1:51:00 PM
Lab ID: 1408830-001
Matrix: SOIL
Received Date: 8/15/2014 4:44:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.5	1.0	1.0		wt%	1	8/18/2014 4:12:00 PM	R20650
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0062	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
1-Methylnaphthalene	ND	0.0062	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
2-Methylnaphthalene	ND	0.0065	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Acenaphthylene	ND	0.0066	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Acenaphthene	ND	0.0070	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Fluorene	ND	0.0080	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Phenanthrene	ND	0.0063	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Anthracene	ND	0.0066	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Fluoranthene	ND	0.0069	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Pyrene	ND	0.0054	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Benz(a)anthracene	ND	0.0056	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Chrysene	ND	0.0040	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Benzo(b)fluoranthene	ND	0.0072	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Benzo(k)fluoranthene	ND	0.0090	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Benzo(a)pyrene	ND	0.0084	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Dibenz(a,h)anthracene	ND	0.0081	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Benzo(g,h,i)perylene	ND	0.0064	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Indeno(1,2,3-cd)pyrene	ND	0.0075	0.022		mg/Kg-dr	1	8/19/2014 12:19:20 PM	14807
Surr: N-hexadecane	51.7	0	27-106		%REC	1	8/19/2014 12:19:20 PM	14807
Surr: Benzo(e)pyrene	58.3	0	34.7-131		%REC	1	8/19/2014 12:19:20 PM	14807

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408830**

20-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14807**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601560** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.74		1.460		50.6	27	106			
Surr: Benzo(e)pyrene	0.18		0.3300		55.9	34.7	131			

Sample ID **lcs-14807**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601561** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.18	0.020	0.3300	0	54.5	50.1	116			
1-Methylnaphthalene	0.18	0.020	0.3300	0	56.1	50.8	121			
2-Methylnaphthalene	0.18	0.020	0.3300	0	54.2	50.4	120			
Acenaphthylene	0.19	0.020	0.3300	0	59.0	53	112			
Acenaphthene	0.19	0.020	0.3300	0	56.2	51.4	112			
Fluorene	0.21	0.020	0.3300	0	62.9	51	116			
Phenanthrene	0.23	0.020	0.3300	0	70.5	46.3	120			
Anthracene	0.23	0.020	0.3300	0	70.4	46.4	118			
Fluoranthene	0.25	0.020	0.3300	0	77.0	46.4	123			
Pyrene	0.22	0.020	0.3300	0	67.8	43.3	122			
Benz(a)anthracene	0.22	0.020	0.3300	0	66.5	44.3	118			
Chrysene	0.22	0.020	0.3300	0	66.8	45.5	116			
Benzo(b)fluoranthene	0.25	0.020	0.3300	0	74.7	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408830**

20-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14807**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601561** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.25	0.020	0.3300	0	74.3	49.7	117			
Benzo(a)pyrene	0.24	0.020	0.3300	0	71.9	50.8	111			
Dibenz(a,h)anthracene	0.27	0.020	0.3300	0	82.0	49.8	127			
Benzo(g,h,i)perylene	0.24	0.020	0.3300	0	72.3	46.4	122			
Indeno(1,2,3-cd)pyrene	0.24	0.020	0.3300	0	73.8	50.1	120			
Surr: N-hexadecane	0.68		1.460		46.4	27	106			
Surr: Benzo(e)pyrene	0.21		0.3300		64.3	34.7	131			

Sample ID **1408830-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0082**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601564** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.22	0.022	0.3628	0	59.9	42.6	115			
1-Methylnaphthalene	0.22	0.022	0.3628	0	60.3	42.4	122			
2-Methylnaphthalene	0.21	0.022	0.3628	0	57.9	45.2	120			
Acenaphthylene	0.22	0.022	0.3628	0	60.9	39.7	116			
Acenaphthene	0.21	0.022	0.3628	0	58.4	41.4	119			
Fluorene	0.24	0.022	0.3628	0	65.4	44.2	123			
Phenanthrene	0.26	0.022	0.3628	0	72.7	48	120			
Anthracene	0.27	0.022	0.3628	0	73.5	43.8	120			
Fluoranthene	0.30	0.022	0.3628	0	82.0	54	125			
Pyrene	0.27	0.022	0.3628	0	73.5	55	120			
Benz(a)anthracene	0.26	0.022	0.3628	0	72.4	50.9	125			
Chrysene	0.25	0.022	0.3628	0	68.8	45.3	127			
Benzo(b)fluoranthene	0.27	0.022	0.3628	0	75.2	49.3	131			
Benzo(k)fluoranthene	0.26	0.022	0.3628	0	71.8	50.6	127			
Benzo(a)pyrene	0.26	0.022	0.3628	0	71.6	53.8	117			
Dibenz(a,h)anthracene	0.30	0.022	0.3628	0	82.4	52	130			
Benzo(g,h,i)perylene	0.27	0.022	0.3628	0	73.5	49.4	123			
Indeno(1,2,3-cd)pyrene	0.27	0.022	0.3628	0	74.0	49.5	124			
Surr: N-hexadecane	0.71		1.605		44.4	27	106			
Surr: Benzo(e)pyrene	0.20		0.3628		54.4	34.7	131			

Sample ID **1408830-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0082**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601565** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.022	0.3638	0	70.0	42.6	115	15.8	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408830**

20-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1408830-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0082**	Batch ID: **14807**	RunNo: **20675**
Prep Date: **8/18/2014**	Analysis Date: **8/19/2014**	SeqNo: **601565** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.26	0.022	0.3638	0	72.5	42.4	122	18.7	20	
2-Methylnaphthalene	0.26	0.022	0.3638	0	70.3	45.2	120	19.6	21.2	
Acenaphthylene	0.26	0.022	0.3638	0	70.8	39.7	116	15.3	20	
Acenaphthene	0.26	0.022	0.3638	0	71.3	41.4	119	20.2	20.5	
Fluorene	0.28	0.022	0.3638	0	76.5	44.2	123	15.9	20	
Phenanthrene	0.30	0.022	0.3638	0	83.1	48	120	13.6	22	
Anthracene	0.30	0.022	0.3638	0	82.0	43.8	120	11.2	26.6	
Fluoranthene	0.33	0.022	0.3638	0	91.0	54	125	10.7	23.7	
Pyrene	0.30	0.022	0.3638	0	83.5	55	120	13.0	29.3	
Benz(a)anthracene	0.30	0.022	0.3638	0	81.1	50.9	125	11.6	25.4	
Chrysene	0.29	0.022	0.3638	0	80.6	45.3	127	16.1	27.6	
Benzo(b)fluoranthene	0.31	0.022	0.3638	0	85.1	49.3	131	12.6	20	
Benzo(k)fluoranthene	0.29	0.022	0.3638	0	79.0	50.6	127	9.78	31.3	
Benzo(a)pyrene	0.29	0.022	0.3638	0	79.8	53.8	117	11.1	22.1	
Dibenz(a,h)anthracene	0.33	0.022	0.3638	0	91.8	52	130	11.0	21.2	
Benzo(g,h,i)perylene	0.30	0.022	0.3638	0	83.1	49.4	123	12.5	25.9	
Indeno(1,2,3-cd)pyrene	0.30	0.022	0.3638	0	83.1	49.5	124	11.8	20.4	
Surr: N-hexadecane	0.85		1.610		52.6	27	106	0	0	
Surr: Benzo(e)pyrene	0.21		0.3638		59.0	34.7	131	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1408830** RcptNo: **1**

Received by/date: 08/15/14

Logged By: **Ashley Gallegos** **8/15/2014 4:44:00 PM**

Completed By: **Ashley Gallegos** **8/15/2014 4:46:16 PM**

Reviewed By: 08/15/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	15.6	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 15 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab X Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/15/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/15/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 15.6°C	Date: 08/15/14 Time: 1644
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0082 IS 2.7 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0082	FFOR-EXCSO-05-SO-FFOR-CF-0082-R	15 AUG 2014	13:51	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		140883 -OC

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 28, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408893

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/18/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408893**
Date: **8/28/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.
Benzene and Toluene had low recoveries in the MS/MSD.

Analytical Notes Regarding EPA Method 6010B:
The MS/MSD/PS had had low recoveries for lead.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0043
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-001
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.3	11		mg/Kg-dr	1	8/20/2014 9:23:17 AM	14830
Motor Oil Range Organics (MRO)	ND	57	57		mg/Kg-dr	1	8/20/2014 9:23:17 AM	14830
Surr: DNOP	76.3	0	57.9-140		%REC	1	8/20/2014 9:23:17 AM	14830
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	8/19/2014 11:44:00 AM	R20686
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	12	0.13	0.29		mg/Kg-dr	1	8/20/2014 8:02:40 AM	14835
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.054	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Acenaphthylene	ND	0.055	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Aniline	ND	0.067	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Anthracene	ND	0.049	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Benz(a)anthracene	ND	0.061	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Benzo(a)pyrene	ND	0.068	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Benzo(b)fluoranthene	ND	0.077	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Benzo(g,h,i)perylene	ND	0.068	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Benzo(k)fluoranthene	ND	0.086	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Bis(2-chloroethoxy)methane	ND	0.076	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Bis(2-chloroethyl)ether	ND	0.090	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Bis(2-chloroisopropyl)ether	ND	0.042	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Bis(2-ethylhexyl)phthalate	ND	0.076	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Bromophenyl phenyl ether	ND	0.057	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Butyl benzyl phthalate	ND	0.048	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Carbazole	ND	0.050	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Chloro-3-methylphenol	ND	0.060	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Chloroaniline	ND	0.060	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Chlorophenol	ND	0.070	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Chlorophenyl phenyl ether	ND	0.064	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Chrysene	ND	0.057	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Di-n-butyl phthalate	0.086	0.051	0.56	J	mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Dibenz(a,h)anthracene	ND	0.067	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Dibenzofuran	ND	0.075	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
1,2-Dichlorobenzene	ND	0.044	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
1,3-Dichlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
1,4-Dichlorobenzene	ND	0.070	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0043
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-001
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.051	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Dimethyl phthalate	ND	0.063	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,6-Dinitrotoluene	ND	0.067	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Fluoranthene	ND	0.050	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Fluorene	ND	0.066	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Hexachlorobenzene	ND	0.061	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Hexachlorobutadiene	ND	0.054	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Hexachlorocyclopentadiene	ND	0.073	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Hexachloroethane	ND	0.079	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Indeno(1,2,3-cd)pyrene	ND	0.075	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Methylnaphthalene	ND	0.067	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
3+4-Methylphenol	ND	0.076	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
N-Nitrosodi-n-propylamine	ND	0.075	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
N-Nitrosodimethylamine	ND	0.085	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
N-Nitrosodiphenylamine	ND	0.066	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Naphthalene	ND	0.054	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Nitroaniline	ND	0.054	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
3-Nitroaniline	ND	0.066	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2-Nitrophenol	ND	0.062	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Phenanthrene	ND	0.041	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Phenol	ND	0.066	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Pyrene	ND	0.061	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
1,2,4-Trichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4,5-Trichlorophenol	ND	0.050	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
2,4,6-Trichlorophenol	ND	0.062	0.23		mg/Kg-dr	1	8/21/2014 10:31:46 AM	14865
Surr: 2-Fluorophenol	70.5		21-111		%REC	1	8/21/2014 10:31:46 AM	14865
Surr: Phenol-d5	73.3		23.1-117		%REC	1	8/21/2014 10:31:46 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0043
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-001
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	71.6		22.7-88.9		%REC	1	8/21/2014 10:31:46 AM	14865
Surr: Nitrobenzene-d5	75.9		24.5-126		%REC	1	8/21/2014 10:31:46 AM	14865
Surr: 2-Fluorobiphenyl	80.6		21.2-129		%REC	1	8/21/2014 10:31:46 AM	14865
Surr: 4-Terphenyl-d14	74.9		39.4-107		%REC	1	8/21/2014 10:31:46 AM	14865
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.00262	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Toluene	0.00449	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Ethylbenzene	0.000851	0.000788	0.00158	J	mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Xylenes, Total	0.00425	0.00158	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Methyl tert-butyl ether (MTBE)	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2,4-Trimethylbenzene	0.00121	0.000788	0.00158	J	mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,3,5-Trimethylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2-Dichloroethane (EDC)	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2-Dibromoethane (EDB)	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Naphthalene	ND	0.00158	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Acetone	0.0154	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Bromobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Bromodichloromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Bromoform	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Bromomethane	0.00221	0.000788	0.00394	J	mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
2-Butanone	ND	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Carbon tetrachloride	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Chlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Chloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Chloroform	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Chloromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
2-Chlorotoluene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Carbon disulfide	ND	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
4-Chlorotoluene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
cis-1,2-DCE	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
cis-1,3-Dichloropropene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2-Dibromo-3-chloropropane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Dibromochloromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Dibromomethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2-Dichlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,3-Dichlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,4-Dichlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Dichlorodifluoromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1-Dichloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0043
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-001
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2-Dichloropropane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,3-Dichloropropane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
2,2-Dichloropropane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1-Dichloropropene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Hexachlorobutadiene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Isopropylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
4-Isopropyltoluene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Methylene chloride	ND	0.00158	0.00394		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
n-Butylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
2-Hexanone	ND	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
n-Propylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
sec-Butylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Styrene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
4-Methyl-2-pentanone	ND	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
tert-Butylbenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1,1,2-Tetrachloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1,2,2-Tetrachloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Tetrachloroethene (PCE)	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
trans-1,2-DCE	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
trans-1,3-Dichloropropene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2,3-Trichlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2,4-Trichlorobenzene	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1,1-Trichloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,1,2-Trichloroethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Trichloroethene (TCE)	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Trichlorofluoromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
1,2,3-Trichloropropane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Vinyl chloride	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Vinyl acetate	ND	0.00788	0.00788		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Bromochloromethane	ND	0.000788	0.00158		mg/Kg-dr	1	8/20/2014 12:58:03 PM	14860
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	8/20/2014 12:58:03 PM	14860
Surr: 4-Bromofluorobenzene	90.0	0	65.3-135		%REC	1	8/20/2014 12:58:03 PM	14860
Surr: Dibromofluoromethane	92.8	0	70-130		%REC	1	8/20/2014 12:58:03 PM	14860
Surr: Toluene-d8	105	0	70-130		%REC	1	8/20/2014 12:58:03 PM	14860
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.73	5.6		mg/Kg-dr	1	8/19/2014 5:01:37 PM	R20677
Surr: BFB	106	0	61.2-137		%REC	1	8/19/2014 5:01:37 PM	R20677

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0044
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-002
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	8/20/2014 10:53:56 AM	14830
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	8/20/2014 10:53:56 AM	14830
Surr: DNOP	84.6	0	57.9-140		%REC	1	8/20/2014 10:53:56 AM	14830
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	10	1.0	1.0		wt%	1	8/19/2014 11:44:00 AM	R20686
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	15	0.12	0.27		mg/Kg-dr	1	8/20/2014 8:14:04 AM	14835
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Aniline	ND	0.066	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Benz(a)anthracene	ND	0.060	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Benzo(b)fluoranthene	ND	0.076	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Benzo(g,h,i)perylene	ND	0.067	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Bis(2-ethylhexyl)phthalate	ND	0.075	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Chloro-3-methylphenol	ND	0.059	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Chloroaniline	ND	0.059	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Di-n-butyl phthalate	ND	0.050	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0044
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-002
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4-Dinitrotoluene	ND	0.082	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,6-Dinitrotoluene	ND	0.066	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Isophorone	ND	0.073	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Methylphenol	ND	0.064	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Nitrobenzene	ND	0.062	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Pentachlorophenol	ND	0.090	0.44		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Phenol	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Pyridine	ND	0.062	0.55		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	8/21/2014 11:01:00 AM	14865
Surr: 2-Fluorophenol	69.7		21-111		%REC	1	8/21/2014 11:01:00 AM	14865
Surr: Phenol-d5	65.1		23.1-117		%REC	1	8/21/2014 11:01:00 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0044
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-002
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	69.2		22.7-88.9		%REC	1	8/21/2014 11:01:00 AM	14865
Surr: Nitrobenzene-d5	79.3		24.5-126		%REC	1	8/21/2014 11:01:00 AM	14865
Surr: 2-Fluorobiphenyl	82.0		21.2-129		%REC	1	8/21/2014 11:01:00 AM	14865
Surr: 4-Terphenyl-d14	74.7		39.4-107		%REC	1	8/21/2014 11:01:00 AM	14865
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.00250	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Toluene	0.00377	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Ethylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Xylenes, Total	0.00305	0.00160	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Methyl tert-butyl ether (MTBE)	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2,4-Trimethylbenzene	0.00115	0.000800	0.00160	J	mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,3,5-Trimethylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2-Dichloroethane (EDC)	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2-Dibromoethane (EDB)	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Naphthalene	ND	0.00160	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Acetone	0.0202	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Bromobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Bromodichloromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Bromoform	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Bromomethane	0.00192	0.000800	0.00400	J	mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
2-Butanone	ND	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Carbon tetrachloride	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Chlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Chloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Chloroform	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Chloromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
2-Chlorotoluene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Carbon disulfide	ND	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
4-Chlorotoluene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
cis-1,2-DCE	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
cis-1,3-Dichloropropene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2-Dibromo-3-chloropropane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Dibromochloromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Dibromomethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2-Dichlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,3-Dichlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,4-Dichlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Dichlorodifluoromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1-Dichloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0044
Project: Kirtland AFB
Collection Date: 8/18/2014 1:28:00 PM
Lab ID: 1408893-002
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2-Dichloropropane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,3-Dichloropropane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
2,2-Dichloropropane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1-Dichloropropene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Hexachlorobutadiene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Isopropylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
4-Isopropyltoluene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Methylene chloride	ND	0.00160	0.00400		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
n-Butylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
2-Hexanone	ND	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
n-Propylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
sec-Butylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Styrene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
4-Methyl-2-pentanone	ND	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
tert-Butylbenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1,1,2-Tetrachloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1,2,2-Tetrachloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Tetrachloroethene (PCE)	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
trans-1,2-DCE	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
trans-1,3-Dichloropropene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2,3-Trichlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2,4-Trichlorobenzene	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1,1-Trichloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,1,2-Trichloroethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Trichloroethene (TCE)	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Trichlorofluoromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
1,2,3-Trichloropropane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Vinyl chloride	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Vinyl acetate	ND	0.00800	0.00800		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Bromochloromethane	ND	0.000800	0.00160		mg/Kg-dr	1	8/20/2014 2:24:17 PM	14860
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	8/20/2014 2:24:17 PM	14860
Surr: 4-Bromofluorobenzene	94.2	0	65.3-135		%REC	1	8/20/2014 2:24:17 PM	14860
Surr: Dibromofluoromethane	90.8	0	70-130		%REC	1	8/20/2014 2:24:17 PM	14860
Surr: Toluene-d8	98.1	0	70-130		%REC	1	8/20/2014 2:24:17 PM	14860
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.73	5.6		mg/Kg-dr	1	8/19/2014 6:25:46 PM	R20677
Surr: BFB	107	0	61.2-137		%REC	1	8/19/2014 6:25:46 PM	R20677

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0045
Project: Kirtland AFB
Collection Date: 8/18/2014 1:39:00 PM
Lab ID: 1408893-003
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	8/20/2014 11:24:00 AM	14830
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	8/20/2014 11:24:00 AM	14830
Surr: DNOP	82.2	0	57.9-140		%REC	1	8/20/2014 11:24:00 AM	14830
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.6	1.0	1.0		wt%	1	8/19/2014 11:44:00 AM	R20686
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.4	0.12	0.26		mg/Kg-dr	1	8/20/2014 8:16:32 AM	14835
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Aniline	ND	0.064	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Benzo(k)fluoranthene	ND	0.082	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0045
Project: Kirtland AFB
Collection Date: 8/18/2014 1:39:00 PM
Lab ID: 1408893-003
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4-Dichlorophenol	ND	0.067	0.43		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4-Dinitrophenol	ND	0.077	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Methylnaphthalene	ND	0.064	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Nitrobenzene	ND	0.061	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Pentachlorophenol	ND	0.088	0.43		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Phenol	ND	0.064	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	8/21/2014 11:30:23 AM	14865
Surr: 2-Fluorophenol	77.1		21-111		%REC	1	8/21/2014 11:30:23 AM	14865
Surr: Phenol-d5	75.8		23.1-117		%REC	1	8/21/2014 11:30:23 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0045
Project: Kirtland AFB
Collection Date: 8/18/2014 1:39:00 PM
Lab ID: 1408893-003
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	67.3		22.7-88.9		%REC	1	8/21/2014 11:30:23 AM	14865
Surr: Nitrobenzene-d5	79.1		24.5-126		%REC	1	8/21/2014 11:30:23 AM	14865
Surr: 2-Fluorobiphenyl	84.3		21.2-129		%REC	1	8/21/2014 11:30:23 AM	14865
Surr: 4-Terphenyl-d14	71.0		39.4-107		%REC	1	8/21/2014 11:30:23 AM	14865
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Toluene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Ethylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Xylenes, Total	ND	0.00165	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Methyl tert-butyl ether (MTBE)	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2,4-Trimethylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,3,5-Trimethylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2-Dichloroethane (EDC)	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2-Dibromoethane (EDB)	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Naphthalene	ND	0.00165	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Acetone	0.00881	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Bromobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Bromodichloromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Bromoform	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Bromomethane	0.00197	0.000824	0.00412	J	mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
2-Butanone	ND	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Carbon tetrachloride	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Chlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Chloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Chloroform	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Chloromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
2-Chlorotoluene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Carbon disulfide	ND	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
4-Chlorotoluene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
cis-1,2-DCE	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
cis-1,3-Dichloropropene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2-Dibromo-3-chloropropane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Dibromochloromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Dibromomethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2-Dichlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,3-Dichlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,4-Dichlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Dichlorodifluoromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1-Dichloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0045
Project: Kirtland AFB
Collection Date: 8/18/2014 1:39:00 PM
Lab ID: 1408893-003
Matrix: MEOH (SOIL)
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2-Dichloropropane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,3-Dichloropropane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
2,2-Dichloropropane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1-Dichloropropene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Hexachlorobutadiene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Isopropylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
4-Isopropyltoluene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Methylene chloride	ND	0.00165	0.00412		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
n-Butylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
2-Hexanone	ND	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
n-Propylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
sec-Butylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Styrene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
4-Methyl-2-pentanone	ND	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
tert-Butylbenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1,1,2-Tetrachloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1,2,2-Tetrachloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Tetrachloroethene (PCE)	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
trans-1,2-DCE	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
trans-1,3-Dichloropropene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2,3-Trichlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2,4-Trichlorobenzene	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1,1-Trichloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,1,2-Trichloroethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Trichloroethene (TCE)	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Trichlorofluoromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
1,2,3-Trichloropropane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Vinyl chloride	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Vinyl acetate	ND	0.00824	0.00824		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Bromochloromethane	ND	0.000824	0.00165		mg/Kg-dr	1	8/20/2014 2:53:04 PM	14860
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	8/20/2014 2:53:04 PM	14860
Surr: 4-Bromofluorobenzene	94.1	0	65.3-135		%REC	1	8/20/2014 2:53:04 PM	14860
Surr: Dibromofluoromethane	93.0	0	70-130		%REC	1	8/20/2014 2:53:04 PM	14860
Surr: Toluene-d8	98.6	0	70-130		%REC	1	8/20/2014 2:53:04 PM	14860
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.71	5.5		mg/Kg-dr	1	8/19/2014 7:49:49 PM	R20677
Surr: BFB	108	0	61.2-137		%REC	1	8/19/2014 7:49:49 PM	R20677

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408893-004
Matrix: MEOH BLAN
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Toluene	ND	0.0055	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Acetone	ND	0.049	0.75		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
2-Butanone	ND	0.023	0.50		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Chloroform	ND	0.017	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408893-004
Matrix: MEOH BLAN
Received Date: 8/18/2014 4:43:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **KJH**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Methylene chloride	0.017	0.0047	0.15	J	mg/Kg	1	8/19/2014 8:17:45 PM	R20677
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Styrene	ND	0.0039	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Surr: Dibromofluoromethane	84.3	0	70-130		%REC	1	8/19/2014 8:17:45 PM	R20677
Surr: 1,2-Dichloroethane-d4	82.1	0	70-130		%REC	1	8/19/2014 8:17:45 PM	R20677
Surr: Toluene-d8	97.1	0	70-130		%REC	1	8/19/2014 8:17:45 PM	R20677
Surr: 4-Bromofluorobenzene	85.5	0	70-130		%REC	1	8/19/2014 8:17:45 PM	R20677
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **KJH**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/19/2014 8:17:45 PM	R20677
Surr: BFB	107	0	61.2-137		%REC	1	8/19/2014 8:17:45 PM	R20677

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14830**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14830**	RunNo: **20654**
Prep Date: **8/19/2014**	Analysis Date: **8/19/2014**	SeqNo: **601125** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.1		10.00		71.3	57.9	140			

Sample ID **LCS-14830**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14830**	RunNo: **20654**
Prep Date: **8/19/2014**	Analysis Date: **8/19/2014**	SeqNo: **601126** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	68.6	130			
Surr: DNOP	3.9		5.000		77.3	57.9	140			

Sample ID **1408893-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0043**	Batch ID: **14830**	RunNo: **20683**
Prep Date: **8/19/2014**	Analysis Date: **8/20/2014**	SeqNo: **602032** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	11	55.71	0	92.3	40.1	152			
Surr: DNOP	4.9		5.571		88.1	57.9	140			

Sample ID **1408893-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0043**	Batch ID: **14830**	RunNo: **20683**
Prep Date: **8/19/2014**	Analysis Date: **8/20/2014**	SeqNo: **602043** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	11	55.87	0	87.0	40.1	152	5.68	32.1	
Surr: DNOP	4.6		5.587		82.0	57.9	140	0	0	

Sample ID **MB-14859**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14859**	RunNo: **20683**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602501** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		80.8	57.9	140			

Sample ID **LCS-14859**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14859**	RunNo: **20683**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602503** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-14859**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14859**	RunNo: **20683**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602503** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.2	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601700** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	0.070	0.15								J
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601700** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.46		0.5000		92.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: Toluene-d8	0.49		0.5000		97.1	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.6	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601702** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	70	130			
Toluene	1.1	0.050	1.000	0	107	70	130			
Chlorobenzene	0.99	0.050	1.000	0	99.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601702** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	117	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	117	58.8	139			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14860**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00224	0.00500								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14860**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0199		0.02000		99.5	70	130			
Surr: 4-Bromofluorobenzene	0.0205		0.02000		102	65.3	135			
Surr: Dibromofluoromethane	0.0184		0.02000		91.9	70	130			
Surr: Toluene-d8	0.0213		0.02000		107	70	130			

Sample ID **lcs-14860**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00989	0.00200	0.01000	0	98.9	70	130			
Toluene	0.0101	0.00200	0.01000	0	101	70	130			
Chlorobenzene	0.0100	0.00200	0.01000	0	100	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14860**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00981	0.00200	0.01000	0	98.1	70	130			
Trichloroethene (TCE)	0.00981	0.00200	0.01000	0	98.1	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0198		0.02000		99.2	70	130			
Surr: 4-Bromofluorobenzene	0.0204		0.02000		102	65.3	135			
Surr: Dibromofluoromethane	0.0182		0.02000		91.2	70	130			
Surr: Toluene-d8	0.0200		0.02000		100	70	130			

Sample ID **1408893-001ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0043**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602664** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00703	0.00157	0.007854	0.002624	56.2	70	130			S
Toluene	0.00687	0.00157	0.007854	0.004490	30.3	70	130			S
Chlorobenzene	0.00688	0.00157	0.007854	0	87.6	70	130			
1,1-Dichloroethene	0.00705	0.00157	0.007854	0	89.7	70	130			
Trichloroethene (TCE)	0.00700	0.00157	0.007854	0	89.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.0168		0.01571		107	70	130			
Surr: 4-Bromofluorobenzene	0.0152		0.01571		96.8	65.3	135			
Surr: Dibromofluoromethane	0.0139		0.01571		88.7	70	130			
Surr: Toluene-d8	0.0154		0.01571		98.3	70	130			

Sample ID **1408893-001amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0043**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602665** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00679	0.00158	0.007909	0.002624	52.7	70	130	3.47	20	S
Toluene	0.00674	0.00158	0.007909	0.004490	28.5	70	130	1.90	20	S
Chlorobenzene	0.00660	0.00158	0.007909	0	83.5	70	130	4.08	20	
1,1-Dichloroethene	0.00688	0.00158	0.007909	0	86.9	70	130	2.45	20	
Trichloroethene (TCE)	0.00672	0.00158	0.007909	0	85.0	70	130	4.09	20	
Surr: 1,2-Dichloroethane-d4	0.0173		0.01582		109	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0153		0.01582		96.4	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0145		0.01582		91.9	70	130	0	0	
Surr: Toluene-d8	0.0163		0.01582		103	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14865**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603089** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14865**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603089** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.4		3.330		70.6	21	111			
Surr: Phenol-d5	2.4		3.330		70.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		73.0	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		76.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		76.3	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		84.9	39.4	107			

Sample ID **lcs-14865**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14865**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	79.5	50.7	110			
4-Chloro-3-methylphenol	2.7	0.50	3.330	0	81.1	47.8	107			
2-Chlorophenol	2.7	0.20	3.330	0	81.9	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	75.1	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	74.2	44.9	114			
N-Nitrosodi-n-propylamine	1.3	0.20	1.670	0	80.5	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	91.5	40.2	103			
Pentachlorophenol	2.7	0.40	3.330	0	81.7	32.9	94			
Phenol	2.7	0.20	3.330	0	79.9	44.1	109			
Pyrene	1.4	0.20	1.670	0	83.6	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	75.1	49.5	115			
Surr: 2-Fluorophenol	2.5		3.330		76.2	21	111			
Surr: Phenol-d5	2.8		3.330		82.6	23.1	117			
Surr: 2,4,6-Tribromophenol	2.9		3.330		86.8	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		85.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		87.9	21.2	129			
Surr: 4-Terphenyl-d14	1.5		1.670		87.1	39.4	107			

Sample ID **mb-14890**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604186** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	2.4		3.330		73.3	21	111			
Surr: Phenol-d5	2.6		3.330		76.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.2		3.330		65.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		82.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.4		1.670		82.8	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		73.7	39.4	107			

Sample ID **lcs-14890**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14890**	RunNo: **20759**
Prep Date: **8/21/2014**	Analysis Date: **8/22/2014**	SeqNo: **604187** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	2.3		3.330		68.3	21	111			
Surr: Phenol-d5	2.6		3.330		77.5	23.1	117			
Surr: 2,4,6-Tribromophenol	2.0		3.330		59.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		78.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.2		1.670		70.9	21.2	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-14890**	SampType:	**LCS**	TestCode:	**EPA Method 8270C: Semivolatiles**
Client ID:	**LCSS**	Batch ID:	**14890**	RunNo:	**20759**
Prep Date:	**8/21/2014**	Analysis Date:	**8/22/2014**	SeqNo:	**604187** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.1		1.670		64.2	39.4	107			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14835**	SampType: **MBLK**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID: **14835**			RunNo: **20676**					
Prep Date:	**8/19/2014**	Analysis Date: **8/20/2014**			SeqNo: **601622**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14835**	SampType: **LCS**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID: **14835**			RunNo: **20676**					
Prep Date:	**8/19/2014**	Analysis Date: **8/20/2014**			SeqNo: **601623**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	92.2	80	120			

Sample ID	**1408893-001AMS**	SampType: **MS**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**FFOR-CF-0043**	Batch ID: **14835**			RunNo: **20676**					
Prep Date:	**8/19/2014**	Analysis Date: **8/20/2014**			SeqNo: **601655**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	31	0.28	28.14	11.55	67.8	75	125			S

Sample ID	**1408893-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 6010B: Soil Metals**					
Client ID:	**FFOR-CF-0043**	Batch ID: **14835**			RunNo: **20676**					
Prep Date:	**8/19/2014**	Analysis Date: **8/20/2014**			SeqNo: **601658**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	28	0.28	27.89	11.55	59.9	75	125	8.11	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408893**

28-Aug-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.7	61.2	137			

Sample ID **2.5ug lcs GRO**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601692** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	80	120			
Surr: BFB	480		500.0		96.8	61.2	137			

Sample ID **1408893-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0043**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601694** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.6	28.08	0	104	58	134			
Surr: BFB	620		561.5		110	61.2	137			

Sample ID **1408893-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0043**	Batch ID: **R20677**	RunNo: **20677**
Prep Date:	Analysis Date: **8/19/2014**	SeqNo: **601695** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.6	28.08	0	101	58	134	2.19	20	
Surr: BFB	620		561.5		110	61.2	137	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1408893 RcptNo: 1

Received by/date: 08/18/14

Logged By: Ashley Gallegos 8/18/2014 4:43:00 PM

Completed By: Ashley Gallegos 8/18/2014 4:45:04 PM

Reviewed By: 08/18/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 18 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/18/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/18/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 5.3°C	Date: 08/18/14 Time: 1643
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0045 = 5.7 PPM, FFOR-CF-0044 AND FFOR-CF-0043 = 3.9 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0043	FFOR-EXC-40-DS-FFOR-CF-0043-REG	18 AUG 2014	13:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1408893
FFOR-CF-0043	FFOR-EXC-40-DS-FFOR-CF-0043-REG	18 AUG 2014	13:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001
FFOR-CF-0044	FFOR-EXC-40-DS-FFOR-CF-0044-FD	18 AUG 2014	13:28	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0044	FFOR-EXC-40-DS-FFOR-CF-0044-FD	18 AUG 2014	13:28	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-002
FFOR-CF-0045	FFOR-EXC-41-DS-FFOR-CF-0045-REG	18 AUG 2014	13:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-0003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0045	FFOR-EXC-41-DS-FFOR-CF-0045-REG	18 AUG 2014	13:39	8 oz CWM	1	None except cool to 4 C	VOCs by SW846 8260B Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003 -004

MeoH Blank
AT 08/19/14

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 05, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1408994

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/19/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1408994**
Date: **9/5/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0046
Project: Kirtland AFB
Collection Date: 8/19/2014 8:07:00 AM
Lab ID: 1408994-001
Matrix: MEOH (SOIL)
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.8	11		mg/Kg-dr	1	8/22/2014 9:17:27 AM	14859
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	8/22/2014 9:17:27 AM	14859
Surr: DNOP	92.5	0	57.9-140		%REC	1	8/22/2014 9:17:27 AM	14859
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	5.8	1.0	1.0		wt%	1	8/20/2014 10:45:00 AM	R20708
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.3	0.12	0.27		mg/Kg-dr	1	8/21/2014 7:57:06 AM	14879
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Aniline	ND	0.063	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Benz(a)anthracene	ND	0.057	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Benzo(a)pyrene	0.087	0.064	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Benzo(b)fluoranthene	0.13	0.073	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Bis(2-ethylhexyl)phthalate	ND	0.071	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Chloronaphthalene	ND	0.061	0.26		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Chrysene	0.085	0.054	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Di-n-butyl phthalate	0.056	0.048	0.53	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Di-n-octyl phthalate	ND	0.27	0.42		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
3,3´-Dichlorobenzidine	ND	0.059	0.26		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0046
Project: Kirtland AFB
Collection Date: 8/19/2014 8:07:00 AM
Lab ID: 1408994-001
Matrix: MEOH (SOIL)
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4,6-Dinitro-2-methylphenol	ND	0.043	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Fluoranthene	0.16	0.047	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Isophorone	ND	0.069	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Nitroaniline	ND	0.051	0.42		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Pentachlorophenol	ND	0.086	0.42		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Phenanthrene	0.045	0.038	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Phenol	ND	0.062	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Pyrene	0.13	0.057	0.21	J	mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	8/21/2014 11:59:40 AM	14865
Surr: 2-Fluorophenol	84.3		21-111		%REC	1	8/21/2014 11:59:40 AM	14865
Surr: Phenol-d5	79.0		23.1-117		%REC	1	8/21/2014 11:59:40 AM	14865

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	79.1		22.7-88.9		%REC	1	8/21/2014 11:59:40 AM	14865
Surr: Nitrobenzene-d5	90.1		24.5-126		%REC	1	8/21/2014 11:59:40 AM	14865
Surr: 2-Fluorobiphenyl	89.9		21.2-129		%REC	1	8/21/2014 11:59:40 AM	14865
Surr: 4-Terphenyl-d14	79.1		39.4-107		%REC	1	8/21/2014 11:59:40 AM	14865
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Toluene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Ethylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Xylenes, Total	ND	0.00140	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Methyl tert-butyl ether (MTBE)	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2,4-Trimethylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,3,5-Trimethylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2-Dichloroethane (EDC)	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2-Dibromoethane (EDB)	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Naphthalene	ND	0.00140	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Acetone	0.0265	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Bromobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Bromodichloromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Bromoform	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Bromomethane	0.00169	0.000702	0.00351	J	mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
2-Butanone	ND	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Carbon tetrachloride	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Chlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Chloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Chloroform	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Chloromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
2-Chlorotoluene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Carbon disulfide	ND	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
4-Chlorotoluene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
cis-1,2-DCE	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
cis-1,3-Dichloropropene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2-Dibromo-3-chloropropane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Dibromochloromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Dibromomethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2-Dichlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,3-Dichlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,4-Dichlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Dichlorodifluoromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1-Dichloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 8/19/2014 8:07:00 AM
Lab ID: 1408994-001
Matrix: MEOH (SOIL)
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2-Dichloropropane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,3-Dichloropropane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
2,2-Dichloropropane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1-Dichloropropene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Hexachlorobutadiene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Isopropylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
4-Isopropyltoluene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Methylene chloride	ND	0.00140	0.00351		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
n-Butylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
2-Hexanone	ND	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
n-Propylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
sec-Butylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Styrene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
4-Methyl-2-pentanone	ND	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
tert-Butylbenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1,1,2-Tetrachloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1,2,2-Tetrachloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Tetrachloroethene (PCE)	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
trans-1,2-DCE	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
trans-1,3-Dichloropropene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2,3-Trichlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2,4-Trichlorobenzene	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1,1-Trichloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,1,2-Trichloroethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Trichloroethene (TCE)	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Trichlorofluoromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
1,2,3-Trichloropropane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Vinyl chloride	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Vinyl acetate	ND	0.00702	0.00702		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Bromochloromethane	ND	0.000702	0.00140		mg/Kg-dr	1	8/20/2014 3:21:51 PM	14860
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%REC	1	8/20/2014 3:21:51 PM	14860
Surr: 4-Bromofluorobenzene	94.5	0	65.3-135		%REC	1	8/20/2014 3:21:51 PM	14860
Surr: Dibromofluoromethane	92.7	0	70-130		%REC	1	8/20/2014 3:21:51 PM	14860
Surr: Toluene-d8	96.6	0	70-130		%REC	1	8/20/2014 3:21:51 PM	14860
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.49	3.8		mg/Kg-dr	1	8/20/2014 2:12:53 PM	R20715
Surr: BFB	110	0	61.2-137		%REC	1	8/20/2014 2:12:53 PM	R20715

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0047
Project: Kirtland AFB
Collection Date: 8/19/2014 3:31:00 PM
Lab ID: 1408994-002
Matrix: MEOH (SOIL)
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	63	6.1	11		mg/Kg-dr	1	8/22/2014 9:47:00 AM	14859
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	8/22/2014 9:47:00 AM	14859
Surr: DNOP	103	0	57.9-140		%REC	1	8/22/2014 9:47:00 AM	14859
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.8	1.0	1.0		wt%	1	8/20/2014 10:45:00 AM	R20708
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	26	0.12	0.27		mg/Kg-dr	1	8/21/2014 7:58:22 AM	14879
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Acenaphthene	ND	0.10	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Aniline	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Anthracene	ND	0.094	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Benz(a)anthracene	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Benzo(a)pyrene	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Benzo(b)fluoranthene	ND	0.15	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Benzo(g,h,i)perylene	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Bis(2-chloroethyl)ether	ND	0.17	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Bis(2-chloroisopropyl)ether	ND	0.081	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Butyl benzyl phthalate	ND	0.093	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Carbazole	ND	0.098	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Chloronaphthalene	ND	0.12	0.54		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Chlorophenyl phenyl ether	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Chrysene	ND	0.11	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Di-n-butyl phthalate	ND	0.098	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Di-n-octyl phthalate	ND	0.55	0.87		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
1,2-Dichlorobenzene	ND	0.085	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
3,3´-Dichlorobenzidine	ND	0.12	0.54		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865

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Qualifiers:

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Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Diethyl phthalate	ND	0.098	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4-Dichlorophenol	ND	0.13	0.87		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4-Dimethylphenol	ND	0.13	0.65		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4,6-Dinitro-2-methylphenol	ND	0.089	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Fluoranthene	ND	0.098	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Hexachlorobutadiene	ND	0.10	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Indeno(1,2,3-cd)pyrene	ND	0.14	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Methylnaphthalene	0.41	0.13	0.44	J	mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
N-Nitrosodi-n-propylamine	ND	0.14	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
N-Nitrosodimethylamine	ND	0.16	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Naphthalene	0.35	0.10	0.44	J	mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Nitroaniline	ND	0.10	0.87		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
4-Nitrophenol	ND	0.13	0.54		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Pentachlorophenol	ND	0.18	0.87		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Phenanthrene	ND	0.079	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Phenol	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Pyrene	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4,5-Trichlorophenol	ND	0.097	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	8/21/2014 1:28:05 PM	14865
Surr: 2-Fluorophenol	82.9		21-111		%REC	1	8/21/2014 1:28:05 PM	14865
Surr: Phenol-d5	82.8		23.1-117		%REC	1	8/21/2014 1:28:05 PM	14865

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Lab ID: 1408994-002
Matrix: MEOH (SOIL)
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **JDC**	
Surr: 2,4,6-Tribromophenol	80.9		22.7-88.9		%REC	1	8/21/2014 1:28:05 PM	14865
Surr: Nitrobenzene-d5	96.4		24.5-126		%REC	1	8/21/2014 1:28:05 PM	14865
Surr: 2-Fluorobiphenyl	94.6		21.2-129		%REC	1	8/21/2014 1:28:05 PM	14865
Surr: 4-Terphenyl-d14	86.6		39.4-107		%REC	1	8/21/2014 1:28:05 PM	14865
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.044	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Toluene	0.071	0.044	0.40	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Ethylbenzene	0.63	0.042	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Methyl tert-butyl ether (MTBE)	ND	0.15	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2,4-Trimethylbenzene	4.2	0.048	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,3,5-Trimethylbenzene	1.5	0.042	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2-Dichloroethane (EDC)	ND	0.065	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2-Dibromoethane (EDB)	ND	0.045	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Naphthalene	0.41	0.033	0.79	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Acetone	0.43	0.39	6.0	EJ	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Bromobenzene	ND	0.062	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Bromodichloromethane	ND	0.051	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Bromoform	ND	0.037	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Bromomethane	ND	0.057	1.2		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
2-Butanone	0.87	0.18	4.0	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Carbon disulfide	ND	0.11	4.0		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Carbon tetrachloride	ND	0.056	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Chlorobenzene	ND	0.044	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Chloroethane	ND	0.066	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Chloroform	ND	0.14	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Chloromethane	ND	0.037	1.2		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
2-Chlorotoluene	ND	0.035	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
4-Chlorotoluene	ND	0.11	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
cis-1,2-DCE	ND	0.036	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
cis-1,3-Dichloropropene	ND	0.049	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2-Dibromo-3-chloropropane	ND	0.054	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Dibromochloromethane	ND	0.039	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Dibromomethane	ND	0.046	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2-Dichlorobenzene	ND	0.047	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,3-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,4-Dichlorobenzene	ND	0.047	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Dichlorodifluoromethane	ND	0.096	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1-Dichloroethane	ND	0.027	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1-Dichloroethene	ND	0.032	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.035	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,3-Dichloropropane	ND	0.074	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
2,2-Dichloropropane	ND	0.043	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1-Dichloropropene	ND	0.062	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Hexachlorobutadiene	ND	0.058	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
2-Hexanone	ND	0.19	4.0		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Isopropylbenzene	0.27	0.031	0.40	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
4-Isopropyltoluene	0.44	0.036	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
4-Methyl-2-pentanone	ND	0.15	4.0		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Methylene chloride	ND	0.037	1.2		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
n-Butylbenzene	1.0	0.035	1.2	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
n-Propylbenzene	0.52	0.040	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
sec-Butylbenzene	0.38	0.039	0.40	J	mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Styrene	ND	0.031	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
tert-Butylbenzene	ND	0.044	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1,1,2-Tetrachloroethane	ND	0.048	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1,2,2-Tetrachloroethane	ND	0.066	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Tetrachloroethene (PCE)	ND	0.049	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
trans-1,2-DCE	ND	0.044	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
trans-1,3-Dichloropropene	ND	0.055	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2,3-Trichlorobenzene	ND	0.044	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2,4-Trichlorobenzene	ND	0.044	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1,1-Trichloroethane	ND	0.040	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,1,2-Trichloroethane	ND	0.048	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Trichloroethene (TCE)	ND	0.055	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Trichlorofluoromethane	ND	0.041	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
1,2,3-Trichloropropane	ND	0.060	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Vinyl chloride	ND	0.033	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Xylenes, Total	6.6	0.12	0.79		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Bromochloromethane	ND	0.18	0.40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Vinyl acetate	ND	4.0	4.0		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Surr: Dibromofluoromethane	98.5	0	70-130		%REC	10	8/20/2014 3:37:21 PM	R20715
Surr: 1,2-Dichloroethane-d4	89.2	0	70-130		%REC	10	8/20/2014 3:37:21 PM	R20715
Surr: Toluene-d8	96.1	0	70-130		%REC	10	8/20/2014 3:37:21 PM	R20715
Surr: 4-Bromofluorobenzene	99.8	0	70-130		%REC	10	8/20/2014 3:37:21 PM	R20715
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	380	5.2	40		mg/Kg-dr	10	8/20/2014 3:37:21 PM	R20715
Surr: BFB	93.5	0	61.2-137		%REC	10	8/20/2014 3:37:21 PM	R20715

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408994-003
Matrix: MEOH BLAN
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Toluene	ND	0.0055	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Naphthalene	ND	0.0042	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Acetone	ND	0.049	0.75		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Bromoform	ND	0.0047	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Bromomethane	ND	0.0071	0.15		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
2-Butanone	ND	0.023	0.50		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Chloroethane	ND	0.0083	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Chloroform	ND	0.017	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Chloromethane	ND	0.0046	0.15		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1408994-003
Matrix: MEOH BLAN
Received Date: 8/19/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Methylene chloride	0.016	0.0047	0.15	J	mg/Kg	1	8/20/2014 4:05:29 PM	R20715
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Styrene	ND	0.0039	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Surr: Dibromofluoromethane	91.0	0	70-130		%REC	1	8/20/2014 4:05:29 PM	R20715
Surr: 1,2-Dichloroethane-d4	83.4	0	70-130		%REC	1	8/20/2014 4:05:29 PM	R20715
Surr: Toluene-d8	93.7	0	70-130		%REC	1	8/20/2014 4:05:29 PM	R20715
Surr: 4-Bromofluorobenzene	83.0	0	70-130		%REC	1	8/20/2014 4:05:29 PM	R20715
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	8/20/2014 4:05:29 PM	R20715
Surr: BFB	106	0	61.2-137		%REC	1	8/20/2014 4:05:29 PM	R20715

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-14859**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **14859**	RunNo: **20683**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602501** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.8	57.9	140			

Sample ID **LCS-14859**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **14859**	RunNo: **20683**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.2	68.6	130			
Surr: DNOP	4.2		5.000		83.2	57.9	140			

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20715**	RunNo: **20715**
Prep Date:	Analysis Date: **8/20/2014**	SeqNo: **602903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20715**	RunNo: **20715**
Prep Date:	Analysis Date: **8/20/2014**	SeqNo: **602903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
mp-Xylenes	ND	0.050								
o-Xylene	ND	0.050								
Surr: Dibromofluoromethane	0.45		0.5000		90.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20715**	RunNo: **20715**
Prep Date:	Analysis Date: **8/20/2014**	SeqNo: **602904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	116	70	130			
Toluene	1.1	0.050	1.000	0	111	70	130			
Chlorobenzene	1.0	0.050	1.000	0	99.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20715**	RunNo: **20715**
Prep Date:	Analysis Date: **8/20/2014**	SeqNo: **602904** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1.2	0.050	1.000	0	123	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	119	58.8	139			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.7	70	130			
Surr: Toluene-d8	0.49		0.5000		98.0	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14860**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00224	0.00500								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14860**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0199		0.02000		99.5	70	130			
Surr: 4-Bromofluorobenzene	0.0205		0.02000		102	65.3	135			
Surr: Dibromofluoromethane	0.0184		0.02000		91.9	70	130			
Surr: Toluene-d8	0.0213		0.02000		107	70	130			

Sample ID **lcs-14860**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **14860**	RunNo: **20710**
Prep Date: **8/20/2014**	Analysis Date: **8/20/2014**	SeqNo: **602662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00989	0.00200	0.01000	0	98.9	70	130			
Toluene	0.0101	0.00200	0.01000	0	101	70	130			
Chlorobenzene	0.0100	0.00200	0.01000	0	100	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-14860**	SampType:	**LCS**	TestCode:	**Method 8260B/5035LOW: VOLATILES**
Client ID:	**LCSS**	Batch ID:	**14860**	RunNo:	**20710**
Prep Date:	**8/20/2014**	Analysis Date:	**8/20/2014**	SeqNo:	**602662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00981	0.00200	0.01000	0	98.1	70	130			
Trichloroethene (TCE)	0.00981	0.00200	0.01000	0	98.1	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0198		0.02000		99.2	70	130			
Surr: 4-Bromofluorobenzene	0.0204		0.02000		102	65.3	135			
Surr: Dibromofluoromethane	0.0182		0.02000		91.2	70	130			
Surr: Toluene-d8	0.0200		0.02000		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14865**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603089** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-14865**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603089** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.4		3.330		70.6	21	111			
Surr: Phenol-d5	2.4		3.330		70.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		73.0	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		76.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		76.3	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		84.9	39.4	107			

Sample ID **lcs-14865**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-14865**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603090** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.20	1.670	0	79.5	50.7	110			
4-Chloro-3-methylphenol	2.7	0.50	3.330	0	81.1	47.8	107			
2-Chlorophenol	2.7	0.20	3.330	0	81.9	45.7	108			
1,4-Dichlorobenzene	1.3	0.20	1.670	0	75.1	46.1	112			
2,4-Dinitrotoluene	1.2	0.50	1.670	0	74.2	44.9	114			
N-Nitrosodi-n-propylamine	1.3	0.20	1.670	0	80.5	38.7	128			
4-Nitrophenol	3.0	0.25	3.330	0	91.5	40.2	103			
Pentachlorophenol	2.7	0.40	3.330	0	81.7	32.9	94			
Phenol	2.7	0.20	3.330	0	79.9	44.1	109			
Pyrene	1.4	0.20	1.670	0	83.6	51.9	109			
1,2,4-Trichlorobenzene	1.3	0.20	1.670	0	75.1	49.5	115			
Surr: 2-Fluorophenol	2.5		3.330		76.2	21	111			
Surr: Phenol-d5	2.8		3.330		82.6	23.1	117			
Surr: 2,4,6-Tribromophenol	2.9		3.330		86.8	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		85.5	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		87.9	21.2	129			
Surr: 4-Terphenyl-d14	1.5		1.670		87.1	39.4	107			

Sample ID **1408994-001Ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0046**	Batch ID: **14865**	RunNo: **20725**
Prep Date: **8/20/2014**	Analysis Date: **8/21/2014**	SeqNo: **603096** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.21	1.774	0	78.1	53.8	92.8			
4-Chloro-3-methylphenol	2.9	0.53	3.538	0	82.2	34.9	104			
2-Chlorophenol	3.1	0.21	3.538	0	88.3	18.2	105			
1,4-Dichlorobenzene	1.3	0.21	1.774	0	75.7	18.1	112			
2,4-Dinitrotoluene	1.4	0.53	1.774	0	77.6	22	144			
N-Nitrosodi-n-propylamine	1.2	0.21	1.774	0	68.4	58.6	101			
4-Nitrophenol	3.3	0.27	3.538	0	92.8	13.7	127			
Pentachlorophenol	2.8	0.42	3.538	0	79.1	16.5	107			
Phenol	3.1	0.21	3.538	0	86.8	12.5	114			
Pyrene	1.5	0.21	1.774	0.1305	79.9	14.2	116			
1,2,4-Trichlorobenzene	1.3	0.21	1.774	0	74.7	16	125			
Surr: 2-Fluorophenol	2.9		3.538		82.8	21	111			
Surr: Phenol-d5	2.9		3.538		82.7	23.1	117			
Surr: 2,4,6-Tribromophenol	2.9		3.538		82.2	22.7	88.9			
Surr: Nitrobenzene-d5	1.6		1.774		91.4	24.5	126			
Surr: 2-Fluorobiphenyl	1.6		1.774		92.2	21.2	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1408994-001Ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0046**	Batch ID:	**14865**		RunNo:	**20725**				
Prep Date:	**8/20/2014**	Analysis Date:	**8/21/2014**		SeqNo:	**603096**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.4		1.774		81.2	39.4	107			

Sample ID	**1408994-001Amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0046**	Batch ID:	**14865**		RunNo:	**20725**				
Prep Date:	**8/20/2014**	Analysis Date:	**8/21/2014**		SeqNo:	**603097**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.21	1.772	0	81.0	53.8	92.8	3.54	22	
4-Chloro-3-methylphenol	3.2	0.53	3.534	0	91.1	34.9	104	10.2	27.3	
2-Chlorophenol	3.1	0.21	3.534	0	86.7	18.2	105	1.88	26.3	
1,4-Dichlorobenzene	1.4	0.21	1.772	0	78.4	18.1	112	3.40	27.4	
2,4-Dinitrotoluene	1.5	0.53	1.772	0	82.6	22	144	6.05	27.4	
N-Nitrosodi-n-propylamine	1.3	0.21	1.772	0	74.7	58.6	101	8.63	22.6	
4-Nitrophenol	3.7	0.27	3.534	0	104	13.7	127	10.8	20	
Pentachlorophenol	2.7	0.42	3.534	0	76.5	16.5	107	3.51	27.1	
Phenol	3.0	0.21	3.534	0	85.1	12.5	114	2.10	32.2	
Pyrene	1.7	0.21	1.772	0.1305	86.6	14.2	116	7.30	29.5	
1,2,4-Trichlorobenzene	1.4	0.21	1.772	0	76.2	16	125	1.83	27.8	
Surr: 2-Fluorophenol	3.0		3.534		84.2	21	111	0	0	
Surr: Phenol-d5	2.8		3.534		80.0	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	2.9		3.534		83.2	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.6		1.772		90.1	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.6		1.772		90.6	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.5		1.772		85.8	39.4	107	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-14879**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**14879**	RunNo:	**20706**					
Prep Date:	**8/20/2014**	Analysis Date:	**8/21/2014**	SeqNo:	**602525**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-14879**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**14879**	RunNo:	**20706**					
Prep Date:	**8/20/2014**	Analysis Date:	**8/21/2014**	SeqNo:	**602526**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	93.5	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408994**

05-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**b1**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**R20715**	RunNo:	**20715**					
Prep Date:		Analysis Date:	**8/20/2014**	SeqNo:	**602828**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		480		500.0		96.2	61.2	137			

Sample ID	**2.5ug lcs GRO2**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**R20715**	RunNo:	**20715**					
Prep Date:		Analysis Date:	**8/20/2014**	SeqNo:	**602829**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		29	5.0	25.00	0	118	80	120			
Surr: BFB		510		500.0		102	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1408994 RcptNo: 1

Received by/date: 08/19/14

Logged By: **Michelle Garcia** 8/19/2014 4:50:00 PM Michelle Garcia

Completed By: **Michelle Garcia** 8/19/2014 4:57:48 PM Michelle Garcia

Reviewed By: 08/19/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	22.8	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 19 AUG 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 8/19/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 8/19/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: 08/19/14 Time: 1650
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID IN FFOR-CF-0046 = 4.7 PPM, FFOR-CF-0047 = 1,030 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0046	FFOR-EXC-42-DS-FFOR-CF-0046-REG	19 AUG 2014	08:07	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N	1468994	-001
FFOR-CF-0046	FFOR-EXC-42-DS-FFOR-CF-0046-REG	19 AUG 2014	08:07	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001
FFOR-CF-0047	FFOR-EXC-43-DS-FFOR-CF-0047-REG	19 AUG 2014	15:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0047	FFOR-EXC-43-DS-FFOR-CF-0047-REG	19 AUG 2014	15:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-002
												-003

Mc 08 Blank MJ 08/19

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 16, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409046

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/2/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1409046**
Date: **9/16/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.
Samples "FFOR-CF-0054, FFOR-CF-0055, FFOR-CF-0057, FFOR-CF-0058" the ICV for Methylene chloride was low and the CCV was elevated. These sample were ND for Methylene Chloride
Samples "FFOR-CF-0056, FFOR-CF-0059, FFOR-CF-0060" the ICV was elevated for Acetone. These samples were ND for Acetone

"S"flags for sample "FFOR-CF-0059 and FFOR-CF-0060 " are due to matrix interferences and dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0054
Project: Kirtland AFB
Collection Date: 9/2/2014 8:39:00 AM
Lab ID: 1409046-001
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/3/2014 4:29:48 PM	15080
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/3/2014 4:29:48 PM	15080
Surr: DNOP	90.9	0	57.9-140		%REC	1	9/3/2014 4:29:48 PM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.2	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.5	0.12	0.28		mg/Kg-dr	1	9/4/2014 10:21:10 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Aniline	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Benzo(a)pyrene	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Chloro-3-methylphenol	ND	0.058	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Chloroaniline	ND	0.058	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Di-n-octyl phthalate	ND	0.27	0.44		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0054
Project: Kirtland AFB
Collection Date: 9/2/2014 8:39:00 AM
Lab ID: 1409046-001
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4-Dichlorophenol	ND	0.067	0.44		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.045	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4-Dinitrophenol	ND	0.077	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,6-Dinitrotoluene	ND	0.065	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Fluorene	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Nitroaniline	ND	0.052	0.44		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Nitrobenzene	ND	0.061	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Pentachlorophenol	ND	0.088	0.44		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Phenol	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:15:56 PM	15084
Surr: 2-Fluorophenol	65.5		21-111		%REC	1	9/4/2014 3:15:56 PM	15084
Surr: Phenol-d5	65.9		23.1-117		%REC	1	9/4/2014 3:15:56 PM	15084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0054
Project: Kirtland AFB
Collection Date: 9/2/2014 8:39:00 AM
Lab ID: 1409046-001
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	37.7		22.7-88.9		%REC	1	9/4/2014 3:15:56 PM	15084
Surr: Nitrobenzene-d5	67.4		24.5-126		%REC	1	9/4/2014 3:15:56 PM	15084
Surr: 2-Fluorobiphenyl	74.9		21.2-129		%REC	1	9/4/2014 3:15:56 PM	15084
Surr: 4-Terphenyl-d14	68.8		39.4-107		%REC	1	9/4/2014 3:15:56 PM	15084
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Toluene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Ethylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Xylenes, Total	ND	0.00144	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Methyl tert-butyl ether (MTBE)	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2,4-Trimethylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,3,5-Trimethylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2-Dichloroethane (EDC)	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2-Dibromoethane (EDB)	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Naphthalene	ND	0.00144	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Acetone	0.00979	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Bromobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Bromodichloromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Bromoform	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Bromomethane	0.00110	0.000721	0.00361	J	mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
2-Butanone	ND	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Carbon tetrachloride	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Chlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Chloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Chloroform	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Chloromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
2-Chlorotoluene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Carbon disulfide	ND	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
4-Chlorotoluene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
cis-1,2-DCE	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
cis-1,3-Dichloropropene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2-Dibromo-3-chloropropane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Dibromochloromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Dibromomethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2-Dichlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,3-Dichlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,4-Dichlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Dichlorodifluoromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1-Dichloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0054
Project: Kirtland AFB
Collection Date: 9/2/2014 8:39:00 AM
Lab ID: 1409046-001
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2-Dichloropropane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,3-Dichloropropane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
2,2-Dichloropropane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1-Dichloropropene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Hexachlorobutadiene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Isopropylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
4-Isopropyltoluene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Methylene chloride	ND	0.00144	0.00361		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
n-Butylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
2-Hexanone	ND	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
n-Propylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
sec-Butylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Styrene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
4-Methyl-2-pentanone	ND	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
tert-Butylbenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1,1,2-Tetrachloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1,2,2-Tetrachloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Tetrachloroethene (PCE)	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
trans-1,2-DCE	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
trans-1,3-Dichloropropene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2,3-Trichlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2,4-Trichlorobenzene	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1,1-Trichloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,1,2-Trichloroethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Trichloroethene (TCE)	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Trichlorofluoromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
1,2,3-Trichloropropane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Vinyl chloride	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Vinyl acetate	ND	0.00721	0.00721		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Bromochloromethane	ND	0.000721	0.00144		mg/Kg-dr	1	9/4/2014 12:40:52 PM	15112
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	9/4/2014 12:40:52 PM	15112
Surr: 4-Bromofluorobenzene	95.4	0	65.3-135		%REC	1	9/4/2014 12:40:52 PM	15112
Surr: Dibromofluoromethane	102	0	70-130		%REC	1	9/4/2014 12:40:52 PM	15112
Surr: Toluene-d8	98.2	0	70-130		%REC	1	9/4/2014 12:40:52 PM	15112
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.48	3.7		mg/Kg-dr	1	9/5/2014 5:28:39 PM	R21061
Surr: BFB	107	0	61.2-137		%REC	1	9/5/2014 5:28:39 PM	R21061

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0055
Project: Kirtland AFB
Collection Date: 9/2/2014 8:39:00 AM
Lab ID: 1409046-002
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/3/2014 4:51:17 PM	15080
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/3/2014 4:51:17 PM	15080
Surr: DNOP	99.2	0	57.9-140		%REC	1	9/3/2014 4:51:17 PM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.6	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.3	0.12	0.27		mg/Kg-dr	1	9/4/2014 10:22:25 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Aniline	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Benz(a)anthracene	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Benzo(a)pyrene	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Bis(2-chloroethoxy)methane	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Bis(2-chloroethyl)ether	ND	0.088	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.074	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Chloro-3-methylphenol	ND	0.058	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Chloronaphthalene	ND	0.063	0.27		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Di-n-butyl phthalate	0.053	0.049	0.55	J	mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Di-n-octyl phthalate	ND	0.27	0.44		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
3,3´-Dichlorobenzidine	ND	0.061	0.27		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084

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Hall Environmental Analysis Laboratory, Inc.

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Project: Kirtland AFB
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Lab ID: 1409046-002
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4-Dinitrophenol	ND	0.077	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4-Dinitrotoluene	ND	0.081	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,6-Dinitrotoluene	ND	0.065	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Fluorene	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Hexachloroethane	ND	0.077	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Indeno(1,2,3-cd)pyrene	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Isophorone	ND	0.072	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
3+4-Methylphenol	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
N-Nitrosodimethylamine	ND	0.083	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Nitrobenzene	ND	0.061	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Pentachlorophenol	ND	0.089	0.44		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Phenol	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 3:45:27 PM	15084
Surr: 2-Fluorophenol	44.0		21-111		%REC	1	9/4/2014 3:45:27 PM	15084
Surr: Phenol-d5	42.7		23.1-117		%REC	1	9/4/2014 3:45:27 PM	15084

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
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Lab ID: 1409046-002
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	25.4		22.7-88.9		%REC	1	9/4/2014 3:45:27 PM	15084
Surr: Nitrobenzene-d5	48.1		24.5-126		%REC	1	9/4/2014 3:45:27 PM	15084
Surr: 2-Fluorobiphenyl	50.9		21.2-129		%REC	1	9/4/2014 3:45:27 PM	15084
Surr: 4-Terphenyl-d14	67.6		39.4-107		%REC	1	9/4/2014 3:45:27 PM	15084
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Toluene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Ethylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Xylenes, Total	ND	0.00150	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Methyl tert-butyl ether (MTBE)	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2,4-Trimethylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,3,5-Trimethylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2-Dichloroethane (EDC)	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2-Dibromoethane (EDB)	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Naphthalene	ND	0.00150	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Acetone	0.0112	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Bromobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Bromodichloromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Bromoform	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Bromomethane	0.00113	0.000749	0.00375	J	mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
2-Butanone	ND	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Carbon tetrachloride	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Chlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Chloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Chloroform	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Chloromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
2-Chlorotoluene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Carbon disulfide	ND	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
4-Chlorotoluene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
cis-1,2-DCE	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
cis-1,3-Dichloropropene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2-Dibromo-3-chloropropane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Dibromochloromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Dibromomethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2-Dichlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,3-Dichlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,4-Dichlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Dichlorodifluoromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1-Dichloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112

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Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2-Dichloropropane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,3-Dichloropropane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
2,2-Dichloropropane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1-Dichloropropene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Hexachlorobutadiene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Isopropylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
4-Isopropyltoluene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Methylene chloride	ND	0.00150	0.00375		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
n-Butylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
2-Hexanone	ND	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
n-Propylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
sec-Butylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Styrene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
4-Methyl-2-pentanone	ND	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
tert-Butylbenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1,1,2-Tetrachloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1,2,2-Tetrachloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Tetrachloroethene (PCE)	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
trans-1,2-DCE	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
trans-1,3-Dichloropropene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2,3-Trichlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2,4-Trichlorobenzene	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1,1-Trichloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,1,2-Trichloroethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Trichloroethene (TCE)	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Trichlorofluoromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
1,2,3-Trichloropropane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Vinyl chloride	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Vinyl acetate	ND	0.00749	0.00749		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Bromochloromethane	ND	0.000749	0.00150		mg/Kg-dr	1	9/4/2014 2:07:10 PM	15112
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	9/4/2014 2:07:10 PM	15112
Surr: 4-Bromofluorobenzene	94.3	0	65.3-135		%REC	1	9/4/2014 2:07:10 PM	15112
Surr: Dibromofluoromethane	94.3	0	70-130		%REC	1	9/4/2014 2:07:10 PM	15112
Surr: Toluene-d8	98.7	0	70-130		%REC	1	9/4/2014 2:07:10 PM	15112
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.48	3.7		mg/Kg-dr	1	9/4/2014 1:32:39 PM	R21010
Surr: BFB	107	0	61.2-137		%REC	1	9/4/2014 1:32:39 PM	R21010

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0056
Project: Kirtland AFB
Collection Date: 9/2/2014 11:03:00 AM
Lab ID: 1409046-003
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	990	5.8	11		mg/Kg-dr	1	9/3/2014 5:12:51 PM	15080
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	9/3/2014 5:12:51 PM	15080
Surr: DNOP	91.8	0	57.9-140		%REC	1	9/3/2014 5:12:51 PM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.0	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.9	0.12	0.27		mg/Kg-dr	1	9/4/2014 10:23:37 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Aniline	ND	0.063	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Benz(a)anthracene	0.14	0.058	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Benzo(a)pyrene	0.22	0.064	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Benzo(b)fluoranthene	0.28	0.073	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Benzo(g,h,i)perylene	0.13	0.064	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Benzo(k)fluoranthene	0.090	0.080	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.071	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Carbazole	ND	0.048	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Chloronaphthalene	ND	0.061	0.26		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Chrysene	0.13	0.054	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Di-n-butyl phthalate	0.049	0.048	0.53	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Di-n-octyl phthalate	ND	0.27	0.42		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
3,3´-Dichlorobenzidine	ND	0.059	0.26		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0056
Project: Kirtland AFB
Collection Date: 9/2/2014 11:03:00 AM
Lab ID: 1409046-003
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.043	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Fluoranthene	0.18	0.047	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Hexachlorocyclopentadiene	ND	0.069	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Indeno(1,2,3-cd)pyrene	0.15	0.070	0.21	J	mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Isophorone	ND	0.070	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Nitroaniline	ND	0.051	0.42		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Pentachlorophenol	ND	0.086	0.42		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Phenol	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Pyrene	0.53	0.057	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	9/4/2014 4:14:55 PM	15084
Surr: 2-Fluorophenol	68.2		21-111		%REC	1	9/4/2014 4:14:55 PM	15084
Surr: Phenol-d5	73.3		23.1-117		%REC	1	9/4/2014 4:14:55 PM	15084

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0056
Project: Kirtland AFB
Collection Date: 9/2/2014 11:03:00 AM
Lab ID: 1409046-003
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	58.6		22.7-88.9		%REC	1	9/4/2014 4:14:55 PM	15084
Surr: Nitrobenzene-d5	78.1		24.5-126		%REC	1	9/4/2014 4:14:55 PM	15084
Surr: 2-Fluorobiphenyl	81.9		21.2-129		%REC	1	9/4/2014 4:14:55 PM	15084
Surr: 4-Terphenyl-d14	75.4		39.4-107		%REC	1	9/4/2014 4:14:55 PM	15084
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Toluene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Ethylbenzene	ND	0.0039	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Methyl tert-butyl ether (MTBE)	ND	0.014	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2,4-Trimethylbenzene	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,3,5-Trimethylbenzene	ND	0.0038	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2-Dichloroethane (EDC)	ND	0.0060	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2-Dibromoethane (EDB)	ND	0.0041	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Naphthalene	ND	0.0030	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Acetone	ND	0.035	0.54		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Bromobenzene	ND	0.0056	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Bromodichloromethane	ND	0.0047	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Bromoform	ND	0.0034	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Bromomethane	ND	0.0052	0.11		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
2-Butanone	ND	0.017	0.36		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Carbon disulfide	ND	0.0096	0.36		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Carbon tetrachloride	ND	0.0051	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Chlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Chloroethane	ND	0.0060	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Chloroform	ND	0.013	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Chloromethane	ND	0.0033	0.11		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
2-Chlorotoluene	ND	0.0032	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
4-Chlorotoluene	ND	0.010	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
cis-1,2-DCE	ND	0.0033	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
cis-1,3-Dichloropropene	ND	0.0045	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2-Dibromo-3-chloropropane	ND	0.0049	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Dibromochloromethane	ND	0.0035	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Dibromomethane	ND	0.0042	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,3-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,4-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Dichlorodifluoromethane	ND	0.0088	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1-Dichloroethane	ND	0.0025	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1-Dichloroethene	ND	0.0029	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 9/2/2014 11:03:00 AM
Lab ID: 1409046-003
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.0032	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,3-Dichloropropane	ND	0.0068	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
2,2-Dichloropropane	ND	0.0039	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1-Dichloropropene	ND	0.0056	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Hexachlorobutadiene	ND	0.0053	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
2-Hexanone	ND	0.017	0.36		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Isopropylbenzene	ND	0.0029	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
4-Isopropyltoluene	ND	0.0033	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
4-Methyl-2-pentanone	ND	0.014	0.36		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Methylene chloride	0.011	0.0034	0.11	J	mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
n-Butylbenzene	ND	0.0032	0.11		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
n-Propylbenzene	ND	0.0036	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
sec-Butylbenzene	ND	0.0035	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Styrene	ND	0.0028	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
tert-Butylbenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1,1,2-Tetrachloroethane	ND	0.0043	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1,2,2-Tetrachloroethane	ND	0.0060	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Tetrachloroethene (PCE)	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
trans-1,2-DCE	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
trans-1,3-Dichloropropene	ND	0.0050	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2,3-Trichlorobenzene	ND	0.0041	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2,4-Trichlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1,1-Trichloroethane	ND	0.0036	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,1,2-Trichloroethane	ND	0.0044	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Trichloroethene (TCE)	ND	0.0050	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Trichlorofluoromethane	ND	0.0038	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
1,2,3-Trichloropropane	ND	0.0055	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Vinyl chloride	ND	0.0030	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Xylenes, Total	ND	0.011	0.072		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Bromochloromethane	ND	0.017	0.036		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Vinyl acetate	ND	0.36	0.36		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Surr: Dibromofluoromethane	89.5	0	70-130		%REC	1	9/3/2014 3:29:21 PM	R20965
Surr: 1,2-Dichloroethane-d4	89.7	0	70-130		%REC	1	9/3/2014 3:29:21 PM	R20965
Surr: Toluene-d8	95.7	0	70-130		%REC	1	9/3/2014 3:29:21 PM	R20965
Surr: 4-Bromofluorobenzene	90.9	0	70-130		%REC	1	9/3/2014 3:29:21 PM	R20965
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	4.5	0.47	3.6		mg/Kg-dr	1	9/3/2014 3:29:21 PM	R20965
Surr: BFB	106	0	61.2-137		%REC	1	9/3/2014 3:29:21 PM	R20965

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0057
Project: Kirtland AFB
Collection Date: 9/2/2014 3:04:00 PM
Lab ID: 1409046-004
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	9/3/2014 5:34:17 PM	15080
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	9/3/2014 5:34:17 PM	15080
Surr: DNOP	95.4	0	57.9-140		%REC	1	9/3/2014 5:34:17 PM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.8	0.12	0.28		mg/Kg-dr	1	9/4/2014 10:24:53 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Acenaphthylene	ND	0.055	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Aniline	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Benz(a)anthracene	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Benzo(a)pyrene	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Benzo(b)fluoranthene	0.083	0.077	0.22	J	mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Benzo(g,h,i)perylene	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Benzo(k)fluoranthene	ND	0.085	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Bis(2-chloroethoxy)methane	ND	0.076	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Bis(2-chloroethyl)ether	ND	0.090	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.042	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.075	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Butyl benzyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Chloro-3-methylphenol	ND	0.059	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Chloroaniline	ND	0.059	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Chloronaphthalene	ND	0.064	0.28		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Chlorophenol	ND	0.070	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Chlorophenyl phenyl ether	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Chrysene	0.065	0.057	0.22	J	mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Di-n-butyl phthalate	0.054	0.050	0.56	J	mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Dibenz(a,h)anthracene	ND	0.067	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Dibenzofuran	ND	0.075	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
1,2-Dichlorobenzene	ND	0.044	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
1,4-Dichlorobenzene	ND	0.070	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
3,3´-Dichlorobenzidine	ND	0.062	0.28		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0057
Project: Kirtland AFB
Collection Date: 9/2/2014 3:04:00 PM
Lab ID: 1409046-004
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Dimethyl phthalate	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4-Dinitrophenol	ND	0.079	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,6-Dinitrotoluene	ND	0.066	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Hexachlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Hexachlorobutadiene	ND	0.054	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Hexachloroethane	ND	0.079	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Indeno(1,2,3-cd)pyrene	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Methylnaphthalene	ND	0.067	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Methylphenol	ND	0.064	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
3+4-Methylphenol	ND	0.076	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
N-Nitrosodi-n-propylamine	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
N-Nitrosodimethylamine	ND	0.085	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Nitroaniline	ND	0.054	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2-Nitrophenol	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Pentachlorophenol	ND	0.091	0.45		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Phenanthrene	ND	0.041	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Phenol	ND	0.066	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Pyrene	0.096	0.061	0.22	J	mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Pyridine	ND	0.062	0.56		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
1,2,4-Trichlorobenzene	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4,5-Trichlorophenol	ND	0.050	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 4:44:20 PM	15084
Surr: 2-Fluorophenol	63.0		21-111		%REC	1	9/4/2014 4:44:20 PM	15084
Surr: Phenol-d5	63.8		23.1-117		%REC	1	9/4/2014 4:44:20 PM	15084

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0057
Project: Kirtland AFB
Collection Date: 9/2/2014 3:04:00 PM
Lab ID: 1409046-004
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	40.1		22.7-88.9		%REC	1	9/4/2014 4:44:20 PM	15084
Surr: Nitrobenzene-d5	64.0		24.5-126		%REC	1	9/4/2014 4:44:20 PM	15084
Surr: 2-Fluorobiphenyl	68.4		21.2-129		%REC	1	9/4/2014 4:44:20 PM	15084
Surr: 4-Terphenyl-d14	67.6		39.4-107		%REC	1	9/4/2014 4:44:20 PM	15084
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	0.00172	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Toluene	0.00273	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Ethylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Xylenes, Total	0.00221	0.00145	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Methyl tert-butyl ether (MTBE)	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2,4-Trimethylbenzene	0.00105	0.000725	0.00145	J	mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,3,5-Trimethylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2-Dichloroethane (EDC)	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2-Dibromoethane (EDB)	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Naphthalene	ND	0.00145	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Acetone	0.266	0.00725	0.00725	E	mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Bromobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Bromodichloromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Bromoform	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Bromomethane	ND	0.000725	0.00363		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
2-Butanone	0.0587	0.00725	0.00725		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Carbon tetrachloride	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Chlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Chloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Chloroform	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Chloromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
2-Chlorotoluene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Carbon disulfide	ND	0.00725	0.00725		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
4-Chlorotoluene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
cis-1,2-DCE	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
cis-1,3-Dichloropropene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2-Dibromo-3-chloropropane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Dibromochloromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Dibromomethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2-Dichlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,3-Dichlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,4-Dichlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Dichlorodifluoromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1-Dichloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0057
Project: Kirtland AFB
Collection Date: 9/2/2014 3:04:00 PM
Lab ID: 1409046-004
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2-Dichloropropane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,3-Dichloropropane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
2,2-Dichloropropane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1-Dichloropropene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Hexachlorobutadiene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Isopropylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
4-Isopropyltoluene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Methylene chloride	ND	0.00145	0.00363		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
n-Butylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
2-Hexanone	ND	0.00725	0.00725		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
n-Propylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
sec-Butylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Styrene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
4-Methyl-2-pentanone	ND	0.00725	0.00725		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
tert-Butylbenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1,1,2-Tetrachloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1,2,2-Tetrachloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Tetrachloroethene (PCE)	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
trans-1,2-DCE	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
trans-1,3-Dichloropropene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2,3-Trichlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2,4-Trichlorobenzene	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1,1-Trichloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,1,2-Trichloroethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Trichloroethene (TCE)	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Trichlorofluoromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
1,2,3-Trichloropropane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Vinyl chloride	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Vinyl acetate	ND	0.00725	0.00725		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Bromochloromethane	ND	0.000725	0.00145		mg/Kg-dr	1	9/4/2014 2:35:53 PM	15112
Surr: 1,2-Dichloroethane-d4	116	0	70-130		%REC	1	9/4/2014 2:35:53 PM	15112
Surr: 4-Bromofluorobenzene	95.4	0	65.3-135		%REC	1	9/4/2014 2:35:53 PM	15112
Surr: Dibromofluoromethane	97.8	0	70-130		%REC	1	9/4/2014 2:35:53 PM	15112
Surr: Toluene-d8	102	0	70-130		%REC	1	9/4/2014 2:35:53 PM	15112
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	0.71	0.47	3.6	J	mg/Kg-dr	1	9/4/2014 2:00:53 PM	R21010
Surr: BFB	105	0	61.2-137		%REC	1	9/4/2014 2:00:53 PM	R21010

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0058
Project: Kirtland AFB
Collection Date: 9/2/2014 3:10:00 PM
Lab ID: 1409046-005
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	9.4	5.8	10	J	mg/Kg-dr	1	9/3/2014 5:55:52 PM	15080
Motor Oil Range Organics (MRO)	ND	52	52		mg/Kg-dr	1	9/3/2014 5:55:52 PM	15080
Surr: DNOP	95.7	0	57.9-140		%REC	1	9/3/2014 5:55:52 PM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	5.0	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	5.8	0.11	0.26		mg/Kg-dr	1	9/4/2014 10:26:08 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.050	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Acenaphthylene	ND	0.051	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Aniline	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Anthracene	ND	0.045	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Benz(a)anthracene	ND	0.057	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Benzo(a)pyrene	ND	0.063	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Benzo(b)fluoranthene	0.13	0.072	0.21	J	mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Bis(2-chloroethyl)ether	ND	0.084	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.071	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Chloro-3-methylphenol	ND	0.056	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Chloroaniline	ND	0.055	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Chloronaphthalene	ND	0.060	0.26		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Chlorophenol	ND	0.065	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Chlorophenyl phenyl ether	ND	0.059	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Chrysene	0.067	0.053	0.21	J	mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Di-n-butyl phthalate	ND	0.047	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Di-n-octyl phthalate	ND	0.26	0.42		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Dibenz(a,h)anthracene	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Dibenzofuran	ND	0.070	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
1,3-Dichlorobenzene	ND	0.059	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
1,4-Dichlorobenzene	ND	0.065	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
3,3´-Dichlorobenzidine	ND	0.058	0.26		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0058
Project: Kirtland AFB
Collection Date: 9/2/2014 3:10:00 PM
Lab ID: 1409046-005
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Dimethyl phthalate	ND	0.058	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4-Dimethylphenol	ND	0.062	0.31		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.043	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4-Dinitrophenol	ND	0.074	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4-Dinitrotoluene	ND	0.077	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,6-Dinitrotoluene	ND	0.062	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Fluoranthene	ND	0.047	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Fluorene	ND	0.061	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Hexachlorobenzene	ND	0.057	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Hexachlorobutadiene	ND	0.050	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Indeno(1,2,3-cd)pyrene	ND	0.069	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Isophorone	ND	0.069	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Methylnaphthalene	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Methylphenol	ND	0.060	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
N-Nitrosodimethylamine	ND	0.079	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
N-Nitrosodiphenylamine	ND	0.061	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
3-Nitroaniline	ND	0.061	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Nitroaniline	ND	0.050	0.42		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Nitrobenzene	ND	0.059	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Pentachlorophenol	ND	0.085	0.42		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Phenol	ND	0.062	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Pyrene	0.16	0.057	0.21	J	mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Pyridine	ND	0.058	0.52		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4,5-Trichlorophenol	ND	0.046	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
2,4,6-Trichlorophenol	ND	0.057	0.21		mg/Kg-dr	1	9/4/2014 5:13:42 PM	15084
Surr: 2-Fluorophenol	65.0		21-111		%REC	1	9/4/2014 5:13:42 PM	15084
Surr: Phenol-d5	64.3		23.1-117		%REC	1	9/4/2014 5:13:42 PM	15084

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0058
Project: Kirtland AFB
Collection Date: 9/2/2014 3:10:00 PM
Lab ID: 1409046-005
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	40.9		22.7-88.9		%REC	1	9/4/2014 5:13:42 PM	15084
Surr: Nitrobenzene-d5	67.8		24.5-126		%REC	1	9/4/2014 5:13:42 PM	15084
Surr: 2-Fluorobiphenyl	71.2		21.2-129		%REC	1	9/4/2014 5:13:42 PM	15084
Surr: 4-Terphenyl-d14	66.4		39.4-107		%REC	1	9/4/2014 5:13:42 PM	15084
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Toluene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Ethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Xylenes, Total	ND	0.00137	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Methyl tert-butyl ether (MTBE)	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2,4-Trimethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,3,5-Trimethylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2-Dichloroethane (EDC)	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2-Dibromoethane (EDB)	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Naphthalene	ND	0.00137	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Acetone	0.124	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Bromobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Bromodichloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Bromoform	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Bromomethane	0.000975	0.000687	0.00344	J	mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
2-Butanone	0.0290	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Carbon tetrachloride	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Chlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Chloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Chloroform	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Chloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
2-Chlorotoluene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Carbon disulfide	ND	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
4-Chlorotoluene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
cis-1,2-DCE	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
cis-1,3-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2-Dibromo-3-chloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Dibromochloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Dibromomethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,3-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,4-Dichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Dichlorodifluoromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1-Dichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0058
Project: Kirtland AFB
Collection Date: 9/2/2014 3:10:00 PM
Lab ID: 1409046-005
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,3-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
2,2-Dichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Hexachlorobutadiene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Isopropylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
4-Isopropyltoluene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Methylene chloride	ND	0.00137	0.00344		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
n-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
2-Hexanone	ND	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
n-Propylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
sec-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Styrene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
4-Methyl-2-pentanone	ND	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
tert-Butylbenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1,1,2-Tetrachloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1,2,2-Tetrachloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Tetrachloroethene (PCE)	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
trans-1,2-DCE	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
trans-1,3-Dichloropropene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2,3-Trichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2,4-Trichlorobenzene	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1,1-Trichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,1,2-Trichloroethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Trichloroethene (TCE)	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Trichlorofluoromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
1,2,3-Trichloropropane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Vinyl chloride	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Vinyl acetate	ND	0.00687	0.00687		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Bromochloromethane	ND	0.000687	0.00137		mg/Kg-dr	1	9/4/2014 3:33:23 PM	15112
Surr: 1,2-Dichloroethane-d4	106	0	70-130		%REC	1	9/4/2014 3:33:23 PM	15112
Surr: 4-Bromofluorobenzene	89.3	0	65.3-135		%REC	1	9/4/2014 3:33:23 PM	15112
Surr: Dibromofluoromethane	96.5	0	70-130		%REC	1	9/4/2014 3:33:23 PM	15112
Surr: Toluene-d8	101	0	70-130		%REC	1	9/4/2014 3:33:23 PM	15112
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	4.4	0.43	3.3		mg/Kg-dr	1	9/4/2014 2:29:03 PM	R21010
Surr: BFB	111	0	61.2-137		%REC	1	9/4/2014 2:29:03 PM	R21010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0059
Project: Kirtland AFB
Collection Date: 9/2/2014 3:15:00 PM
Lab ID: 1409046-006
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	4500	60	110		mg/Kg-dr	10	9/4/2014 9:56:40 AM	15080
Motor Oil Range Organics (MRO)	ND	540	540		mg/Kg-dr	10	9/4/2014 9:56:40 AM	15080
Surr: DNOP	0	0	57.9-140	S	%REC	10	9/4/2014 9:56:40 AM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.7	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	18	0.12	0.27		mg/Kg-dr	1	9/4/2014 10:27:23 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Aniline	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Benz(a)anthracene	0.18	0.060	0.22	J	mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Benzo(a)pyrene	0.29	0.066	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Benzo(b)fluoranthene	0.70	0.076	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Benzo(g,h,i)perylene	0.20	0.067	0.22	J	mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Bis(2-chloroethoxy)methane	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Bis(2-chloroethyl)ether	ND	0.088	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.074	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Chloro-3-methylphenol	ND	0.058	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Chrysene	0.29	0.056	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Di-n-butyl phthalate	ND	0.050	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Dibenz(a,h)anthracene	0.086	0.065	0.22	J	mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Dibenzofuran	0.32	0.074	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
1,3-Dichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
1,4-Dichlorobenzene	ND	0.068	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0059
Project: Kirtland AFB
Collection Date: 9/2/2014 3:15:00 PM
Lab ID: 1409046-006
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4-Dinitrotoluene	ND	0.081	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,6-Dinitrotoluene	ND	0.065	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Fluoranthene	0.25	0.049	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Fluorene	0.13	0.064	0.22	J	mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Hexachloroethane	ND	0.077	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Indeno(1,2,3-cd)pyrene	0.26	0.073	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Isophorone	ND	0.072	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2-Methylnaphthalene	13	0.33	1.1		mg/Kg-dr	5	9/5/2014 12:10:34 PM	15084
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
3+4-Methylphenol	ND	0.074	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
N-Nitrosodimethylamine	ND	0.083	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
N-Nitrosodiphenylamine	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Naphthalene	6.0	0.26	1.1		mg/Kg-dr	5	9/5/2014 12:10:34 PM	15084
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Nitrobenzene	ND	0.061	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Pentachlorophenol	ND	0.089	0.44		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Phenanthrene	0.052	0.040	0.22	J	mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Phenol	ND	0.065	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Pyrene	0.77	0.060	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	9/4/2014 5:42:59 PM	15084
Surr: 2-Fluorophenol	70.2		21-111		%REC	1	9/4/2014 5:42:59 PM	15084
Surr: Phenol-d5	75.4		23.1-117		%REC	1	9/4/2014 5:42:59 PM	15084

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0059
Project: Kirtland AFB
Collection Date: 9/2/2014 3:15:00 PM
Lab ID: 1409046-006
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	82.6		22.7-88.9		%REC	1	9/4/2014 5:42:59 PM	15084
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/4/2014 5:42:59 PM	15084
Surr: 2-Fluorobiphenyl	67.6		21.2-129		%REC	1	9/4/2014 5:42:59 PM	15084
Surr: 4-Terphenyl-d14	77.1		39.4-107		%REC	1	9/4/2014 5:42:59 PM	15084
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.023	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Toluene	ND	0.024	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Ethylbenzene	0.23	0.023	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Methyl tert-butyl ether (MTBE)	ND	0.080	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2,4-Trimethylbenzene	12	0.026	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,3,5-Trimethylbenzene	3.7	0.023	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2-Dichloroethane (EDC)	ND	0.035	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2-Dibromoethane (EDB)	ND	0.024	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Naphthalene	12	0.018	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Acetone	0.40	0.21	3.2	J	mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Bromobenzene	ND	0.033	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Bromodichloromethane	ND	0.028	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Bromoform	ND	0.020	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Bromomethane	ND	0.031	0.64		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
2-Butanone	0.58	0.098	2.1	J	mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Carbon disulfide	ND	0.057	2.1		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Carbon tetrachloride	ND	0.030	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Chlorobenzene	ND	0.024	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Chloroethane	ND	0.035	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Chloroform	ND	0.075	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Chloromethane	ND	0.020	0.64		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
2-Chlorotoluene	ND	0.019	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
4-Chlorotoluene	ND	0.062	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
cis-1,2-DCE	ND	0.020	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
cis-1,3-Dichloropropene	ND	0.027	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2-Dibromo-3-chloropropane	ND	0.029	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Dibromochloromethane	ND	0.021	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Dibromomethane	ND	0.025	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2-Dichlorobenzene	ND	0.025	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,3-Dichlorobenzene	ND	0.026	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,4-Dichlorobenzene	ND	0.025	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Dichlorodifluoromethane	ND	0.052	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1-Dichloroethane	ND	0.015	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1-Dichloroethene	ND	0.017	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0059
Project: Kirtland AFB
Collection Date: 9/2/2014 3:15:00 PM
Lab ID: 1409046-006
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.019	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,3-Dichloropropane	ND	0.040	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
2,2-Dichloropropane	ND	0.023	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1-Dichloropropene	ND	0.033	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Hexachlorobutadiene	ND	0.031	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
2-Hexanone	ND	0.10	2.1		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Isopropylbenzene	0.29	0.017	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
4-Isopropyltoluene	2.3	0.019	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
4-Methyl-2-pentanone	ND	0.083	2.1		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Methylene chloride	0.24	0.020	0.64	J	mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
n-Butylbenzene	7.7	0.019	0.64		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
n-Propylbenzene	0.94	0.022	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
sec-Butylbenzene	2.2	0.021	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Styrene	ND	0.017	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
tert-Butylbenzene	0.067	0.024	0.21	J	mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1,1,2-Tetrachloroethane	ND	0.026	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1,2,2-Tetrachloroethane	ND	0.036	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Tetrachloroethene (PCE)	ND	0.026	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
trans-1,2-DCE	ND	0.024	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
trans-1,3-Dichloropropene	ND	0.030	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2,3-Trichlorobenzene	ND	0.024	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2,4-Trichlorobenzene	ND	0.024	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1,1-Trichloroethane	ND	0.022	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,1,2-Trichloroethane	ND	0.026	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Trichloroethene (TCE)	ND	0.030	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Trichlorofluoromethane	ND	0.022	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
1,2,3-Trichloropropane	ND	0.032	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Vinyl chloride	ND	0.018	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Xylenes, Total	0.58	0.063	0.43		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Bromochloromethane	ND	0.098	0.21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Vinyl acetate	ND	2.1	2.1		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Surr: Dibromofluoromethane	93.9	0	70-130		%REC	5	9/3/2014 4:25:44 PM	R20965
Surr: 1,2-Dichloroethane-d4	90.6	0	70-130		%REC	5	9/3/2014 4:25:44 PM	R20965
Surr: Toluene-d8	90.9	0	70-130		%REC	5	9/3/2014 4:25:44 PM	R20965
Surr: 4-Bromofluorobenzene	215	0	70-130	S	%REC	5	9/3/2014 4:25:44 PM	R20965
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	750	2.8	21		mg/Kg-dr	5	9/3/2014 4:25:44 PM	R20965
Surr: BFB	196	0	61.2-137	S	%REC	5	9/3/2014 4:25:44 PM	R20965

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Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0060
Project: Kirtland AFB
Collection Date: 9/2/2014 3:58:00 PM
Lab ID: 1409046-007
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	1900	63	110		mg/Kg-dr	10	9/4/2014 10:17:54 AM	15080
Motor Oil Range Organics (MRO)	ND	570	570		mg/Kg-dr	10	9/4/2014 10:17:54 AM	15080
Surr: DNOP	0	0	57.9-140	S	%REC	10	9/4/2014 10:17:54 AM	15080
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	12	1.0	1.0		wt%	1	9/3/2014 9:20:00 AM	R20974
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	11	0.25	0.57		mg/Kg-dr	2	9/4/2014 10:39:30 AM	15088
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.054	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Acenaphthylene	ND	0.055	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Aniline	ND	0.067	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Anthracene	0.088	0.049	0.23	J	mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Benz(a)anthracene	0.28	0.061	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Benzo(a)pyrene	0.32	0.068	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Benzo(b)fluoranthene	0.75	0.077	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Benzo(g,h,i)perylene	0.17	0.068	0.23	J	mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Benzo(k)fluoranthene	ND	0.086	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Bis(2-chloroethoxy)methane	ND	0.076	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Bis(2-chloroethyl)ether	ND	0.091	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Bis(2-chloroisopropyl)ether	ND	0.042	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Bis(2-ethylhexyl)phthalate	ND	0.076	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Bromophenyl phenyl ether	ND	0.057	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Butyl benzyl phthalate	ND	0.048	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Carbazole	ND	0.051	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Chloro-3-methylphenol	ND	0.060	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Chloroaniline	ND	0.060	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2-Chloronaphthalene	ND	0.065	0.28		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2-Chlorophenol	ND	0.070	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Chlorophenyl phenyl ether	ND	0.064	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Chrysene	0.41	0.057	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Di-n-butyl phthalate	ND	0.051	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Di-n-octyl phthalate	ND	0.28	0.45		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Dibenz(a,h)anthracene	0.072	0.067	0.23	J	mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Dibenzofuran	0.24	0.076	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
1,2-Dichlorobenzene	ND	0.044	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
1,3-Dichlorobenzene	ND	0.064	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
1,4-Dichlorobenzene	ND	0.070	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
3,3´-Dichlorobenzidine	ND	0.063	0.28		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0060
Project: Kirtland AFB
Collection Date: 9/2/2014 3:58:00 PM
Lab ID: 1409046-007
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.051	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Dimethyl phthalate	ND	0.063	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4-Dichlorophenol	ND	0.069	0.45		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4-Dimethylphenol	ND	0.067	0.34		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4,6-Dinitro-2-methylphenol	ND	0.046	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4-Dinitrophenol	ND	0.080	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4-Dinitrotoluene	ND	0.083	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,6-Dinitrotoluene	ND	0.067	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Fluoranthene	0.67	0.051	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Fluorene	0.13	0.066	0.23	J	mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Hexachlorobenzene	ND	0.062	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Hexachlorobutadiene	ND	0.054	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Hexachlorocyclopentadiene	ND	0.073	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Hexachloroethane	ND	0.079	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Indeno(1,2,3-cd)pyrene	0.21	0.075	0.23	J	mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Isophorone	ND	0.074	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2-Methylnaphthalene	8.0	0.13	0.45		mg/Kg-dr	2	9/5/2014 12:39:42 PM	15084
2-Methylphenol	ND	0.065	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
3+4-Methylphenol	ND	0.076	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
N-Nitrosodi-n-propylamine	ND	0.075	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
N-Nitrosodimethylamine	ND	0.085	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
N-Nitrosodiphenylamine	ND	0.066	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Naphthalene	3.3	0.054	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2-Nitroaniline	ND	0.054	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
3-Nitroaniline	ND	0.066	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Nitroaniline	ND	0.054	0.45		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Nitrobenzene	ND	0.063	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2-Nitrophenol	ND	0.062	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
4-Nitrophenol	ND	0.069	0.28		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Pentachlorophenol	ND	0.092	0.45		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Phenanthrene	0.30	0.041	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Phenol	ND	0.066	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Pyrene	1.0	0.061	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Pyridine	ND	0.063	0.56		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
1,2,4-Trichlorobenzene	ND	0.065	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4,5-Trichlorophenol	ND	0.050	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
2,4,6-Trichlorophenol	ND	0.062	0.23		mg/Kg-dr	1	9/4/2014 6:12:11 PM	15084
Surr: 2-Fluorophenol	76.7		21-111		%REC	1	9/4/2014 6:12:11 PM	15084
Surr: Phenol-d5	77.9		23.1-117		%REC	1	9/4/2014 6:12:11 PM	15084

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0060
Project: Kirtland AFB
Collection Date: 9/2/2014 3:58:00 PM
Lab ID: 1409046-007
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	81.5		22.7-88.9		%REC	1	9/4/2014 6:12:11 PM	15084
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/4/2014 6:12:11 PM	15084
Surr: 2-Fluorobiphenyl	73.4		21.2-129		%REC	1	9/4/2014 6:12:11 PM	15084
Surr: 4-Terphenyl-d14	77.5		39.4-107		%REC	1	9/4/2014 6:12:11 PM	15084
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Toluene	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Ethylbenzene	0.27	0.044	0.42	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Methyl tert-butyl ether (MTBE)	ND	0.16	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2,4-Trimethylbenzene	2.5	0.050	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,3,5-Trimethylbenzene	2.6	0.044	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2-Dichloroethane (EDC)	ND	0.069	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2-Dibromoethane (EDB)	ND	0.047	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Naphthalene	5.5	0.035	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Acetone	4.4	0.41	6.2	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Bromobenzene	ND	0.065	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Bromodichloromethane	ND	0.054	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Bromoform	ND	0.039	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Bromomethane	ND	0.059	1.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
2-Butanone	2.4	0.19	4.2	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Carbon disulfide	ND	0.11	4.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Carbon tetrachloride	ND	0.058	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Chlorobenzene	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Chloroethane	ND	0.069	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Chloroform	ND	0.14	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Chloromethane	ND	0.038	1.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
2-Chlorotoluene	ND	0.037	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
4-Chlorotoluene	ND	0.12	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
cis-1,2-DCE	ND	0.038	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
cis-1,3-Dichloropropene	ND	0.052	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2-Dibromo-3-chloropropane	ND	0.057	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Dibromochloromethane	ND	0.041	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Dibromomethane	ND	0.048	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2-Dichlorobenzene	ND	0.049	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,3-Dichlorobenzene	ND	0.050	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,4-Dichlorobenzene	ND	0.049	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Dichlorodifluoromethane	ND	0.10	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1-Dichloroethane	ND	0.029	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1-Dichloroethene	ND	0.033	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965

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CLIENT: CB & I Federal Services LLC
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Lab ID: 1409046-007
Matrix: MEOH (SOIL)
Received Date: 9/2/2014 4:58:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.037	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,3-Dichloropropane	ND	0.078	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
2,2-Dichloropropane	ND	0.045	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1-Dichloropropene	ND	0.064	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Hexachlorobutadiene	ND	0.061	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
2-Hexanone	ND	0.20	4.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Isopropylbenzene	0.27	0.033	0.42	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
4-Isopropyltoluene	1.8	0.038	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
4-Methyl-2-pentanone	ND	0.16	4.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Methylene chloride	0.48	0.039	1.2	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
n-Butylbenzene	3.6	0.037	1.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
n-Propylbenzene	0.66	0.042	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
sec-Butylbenzene	1.2	0.040	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Styrene	ND	0.032	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
tert-Butylbenzene	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1,1,2-Tetrachloroethane	ND	0.050	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1,2,2-Tetrachloroethane	ND	0.069	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Tetrachloroethene (PCE)	ND	0.051	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
trans-1,2-DCE	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
trans-1,3-Dichloropropene	ND	0.057	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2,3-Trichlorobenzene	ND	0.047	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2,4-Trichlorobenzene	ND	0.046	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1,1-Trichloroethane	ND	0.042	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,1,2-Trichloroethane	ND	0.050	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Trichloroethene (TCE)	ND	0.058	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Trichlorofluoromethane	ND	0.043	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
1,2,3-Trichloropropane	ND	0.063	0.83		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Vinyl chloride	ND	0.034	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Xylenes, Total	0.77	0.12	0.83	J	mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Bromochloromethane	ND	0.19	0.42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Vinyl acetate	ND	4.2	4.2		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Surr: Dibromofluoromethane	99.5	0	70-130		%REC	10	9/3/2014 5:22:11 PM	R20965
Surr: 1,2-Dichloroethane-d4	96.5	0	70-130		%REC	10	9/3/2014 5:22:11 PM	R20965
Surr: Toluene-d8	94.8	0	70-130		%REC	10	9/3/2014 5:22:11 PM	R20965
Surr: 4-Bromofluorobenzene	125	0	70-130		%REC	10	9/3/2014 5:22:11 PM	R20965
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	690	5.4	42		mg/Kg-dr	10	9/3/2014 5:22:11 PM	R20965
Surr: BFB	142	0	61.2-137	S	%REC	10	9/3/2014 5:22:11 PM	R20965

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15053**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15053**	RunNo: **20950**
Prep Date: **9/2/2014**	Analysis Date: **9/3/2014**	SeqNo: **610293** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.2		10.00		71.9	57.9	140			

Sample ID **LCS-15053**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15053**	RunNo: **20950**
Prep Date: **9/2/2014**	Analysis Date: **9/3/2014**	SeqNo: **610294** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.6	57.9	140			

Sample ID **MB-15080**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15080**	RunNo: **20948**
Prep Date: **9/3/2014**	Analysis Date: **9/3/2014**	SeqNo: **610470** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.2	57.9	140			

Sample ID **LCS-15080**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15080**	RunNo: **20948**
Prep Date: **9/3/2014**	Analysis Date: **9/3/2014**	SeqNo: **610471** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.2	68.6	130			
Surr: DNOP	4.3		5.000		86.9	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs1**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610287** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	0.99	0.050	1.000	0	99.3	70	130			
Chlorobenzene	0.92	0.050	1.000	0	91.9	70	130			
1,1-Dichloroethene	1.2	0.050	1.000	0	121	60.5	160			
Trichloroethene (TCE)	1.1	0.050	1.000	0	110	58.8	139			
Surr: Dibromofluoromethane	0.49		0.5000		97.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.46		0.5000		92.6	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		87.2	70	130			

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.017	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	0.012	0.050								J
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **610292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		95.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.5	70	130			

Sample ID **1409046-007a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0060**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611056** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	9.5	0.42	8.316	0	114	32.2	145			
Toluene	8.6	0.42	8.316	0	104	29.1	139			
Chlorobenzene	8.0	0.42	8.316	0	96.5	32.4	142			
1,1-Dichloroethene	11	0.42	8.316	0	128	32.6	155			
Trichloroethene (TCE)	9.5	0.42	8.316	0	114	29.2	150			
Surr: Dibromofluoromethane	4.1		4.158		98.3	70	130			
Surr: 1,2-Dichloroethane-d4	4.0		4.158		96.8	70	130			
Surr: Toluene-d8	3.9		4.158		92.9	70	130			
Surr: 4-Bromofluorobenzene	5.5		4.158		133	70	130			S

Sample ID **1409046-007a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **FFOR-CF-0060**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611057** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	8.8	0.42	8.316	0	106	32.2	145	7.41	20	
Toluene	8.4	0.42	8.316	0	102	29.1	139	2.08	20	
Chlorobenzene	8.0	0.42	8.316	0	96.7	32.4	142	0.164	20	
1,1-Dichloroethene	9.7	0.42	8.316	0	116	32.6	155	9.71	20	
Trichloroethene (TCE)	8.7	0.42	8.316	0	104	29.2	150	8.90	20	
Surr: Dibromofluoromethane	3.9		4.158		93.8	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	3.8		4.158		91.9	70	130	0	0	
Surr: Toluene-d8	3.8		4.158		91.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	6.6		4.158		158	70	130	0	0	S

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611691** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611691** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.48		0.5000		95.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.8	70	130			
Surr: Toluene-d8	0.47		0.5000		95.0	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611692** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.49		0.5000		98.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.1	70	130			

Sample ID **mb-15063**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **15063**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611758** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		78.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.0	70	130			

Sample ID **lcs-15063**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **15063**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611759** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.7	70	130			
Surr: Toluene-d8	0.46		0.5000		91.6	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.4	70	130			

Sample ID **MB-15063 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611882** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15063 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611882** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		78.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.0	70	130			

Sample ID **LCS-15063 MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611883** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.7	70	130			
Surr: Toluene-d8	0.46		0.5000		91.6	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.4	70	130			

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612991** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.47		0.5000		93.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		93.0	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.0	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612993** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.49		0.5000		98.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.2	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.3	70	130			

Sample ID **MB-15122 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613032** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15122 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613032** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.42		0.5000		83.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.4	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.7	70	130			

Sample ID **LCS-15122 MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613033** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.43		0.5000		86.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.8	70	130			
Surr: Toluene-d8	0.47		0.5000		93.4	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.7	70	130			

Sample ID **mb-15146**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **15146**	RunNo: **21086**
Prep Date: **9/5/2014**	Analysis Date: **9/9/2014**	SeqNo: **613793** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.40		0.5000		79.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.38		0.5000		76.6	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.2	70	130			

Sample ID **lcs-15146**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **15146**	RunNo: **21086**
Prep Date: **9/5/2014**	Analysis Date: **9/8/2014**	SeqNo: **613794** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.42		0.5000		84.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.4	70	130			
Surr: Toluene-d8	0.46		0.5000		92.7	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15112**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00151	0.00200								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15112**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0201		0.02000		100	70	130			
Surr: 4-Bromofluorobenzene	0.0211		0.02000		106	65.3	135			
Surr: Dibromofluoromethane	0.0194		0.02000		96.8	70	130			
Surr: Toluene-d8	0.0199		0.02000		99.7	70	130			

Sample ID **lcs-15112**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00484	0.00200	0.005000	0	96.7	70	130			
Toluene	0.00523	0.00200	0.005000	0	105	70	130			
Chlorobenzene	0.00490	0.00200	0.005000	0	98.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-15112**	SampType:	**LCS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**LCSS**	Batch ID:	**15112**		RunNo:	**21009**				
Prep Date:	**9/4/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**611647**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00455	0.00200	0.005000	0	90.9	70	130			
Trichloroethene (TCE)	0.00488	0.00200	0.005000	0	97.5	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0199		0.02000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.0209		0.02000		104	65.3	135			
Surr: Dibromofluoromethane	0.0184		0.02000		92.2	70	130			
Surr: Toluene-d8	0.0202		0.02000		101	70	130			

Sample ID	**1409046-001ams**	SampType:	**MS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0054**	Batch ID:	**15112**		RunNo:	**21009**				
Prep Date:	**9/4/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**611649**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00310	0.00145	0.003622	0	85.6	70	130			
Toluene	0.00330	0.00145	0.003622	0	91.2	70	130			
Chlorobenzene	0.00322	0.00145	0.003622	0	88.9	70	130			
1,1-Dichloroethene	0.00300	0.00145	0.003622	0	82.9	70	130			
Trichloroethene (TCE)	0.00321	0.00145	0.003622	0	88.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.0160		0.01449		110	70	130			
Surr: 4-Bromofluorobenzene	0.0142		0.01449		97.8	65.3	135			
Surr: Dibromofluoromethane	0.0143		0.01449		98.6	70	130			
Surr: Toluene-d8	0.0146		0.01449		101	70	130			

Sample ID	**1409046-001amsd**	SampType:	**MSD**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0054**	Batch ID:	**15112**		RunNo:	**21009**				
Prep Date:	**9/4/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**611650**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00317	0.00145	0.003632	0	87.3	70	130	2.21	20	
Toluene	0.00311	0.00145	0.003632	0	85.5	70	130	6.12	20	
Chlorobenzene	0.00317	0.00145	0.003632	0	87.3	70	130	1.50	20	
1,1-Dichloroethene	0.00297	0.00145	0.003632	0	81.9	70	130	0.972	20	
Trichloroethene (TCE)	0.00309	0.00145	0.003632	0	85.0	70	130	3.84	20	
Surr: 1,2-Dichloroethane-d4	0.0156		0.01453		107	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0147		0.01453		101	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0144		0.01453		99.2	70	130	0	0	
Surr: Toluene-d8	0.0144		0.01453		99.0	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15084**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15084**	RunNo: **21003**
Prep Date: **9/3/2014**	Analysis Date: **9/4/2014**	SeqNo: **611390** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	ND	0.50								
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15084**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15084**	RunNo: **21003**
Prep Date: **9/3/2014**	Analysis Date: **9/4/2014**	SeqNo: **611390** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.6		3.330		78.7	21	111			
Surr: Phenol-d5	2.7		3.330		80.3	23.1	117			
Surr: 2,4,6-Tribromophenol	1.4		3.330		40.8	22.7	88.9			
Surr: Nitrobenzene-d5	1.5		1.670		91.2	24.5	126			
Surr: 2-Fluorobiphenyl	1.5		1.670		88.1	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		81.4	39.4	107			

Sample ID **1409046-007ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0060**	Batch ID: **15084**	RunNo: **21003**
Prep Date: **9/3/2014**	Analysis Date: **9/4/2014**	SeqNo: **611404** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409046-007ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0060**	Batch ID: **15084**	RunNo: **21003**
Prep Date: **9/3/2014**	Analysis Date: **9/4/2014**	SeqNo: **611404** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.23	1.886	0	77.9	53.8	92.8			
4-Chloro-3-methylphenol	3.4	0.56	3.761	0	89.7	34.9	104			
2-Chlorophenol	2.8	0.23	3.761	0	75.1	18.2	105			
1,4-Dichlorobenzene	1.4	0.23	1.886	0	73.9	18.1	112			
2,4-Dinitrotoluene	1.1	0.56	1.886	0	59.9	22	144			
N-Nitrosodi-n-propylamine	ND	0.23	1.886	0	0	58.6	101			S
4-Nitrophenol	3.4	0.28	3.761	0	89.2	13.7	127			
Pentachlorophenol	2.6	0.45	3.761	0	69.9	16.5	107			
Phenol	3.2	0.23	3.761	0	84.9	12.5	114			
Pyrene	2.2	0.23	1.886	1.042	63.0	14.2	116			
1,2,4-Trichlorobenzene	1.4	0.23	1.886	0	74.6	16	125			
Surr: 2-Fluorophenol	2.5		3.761		67.6	21	111			
Surr: Phenol-d5	2.7		3.761		70.8	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.761		65.0	22.7	88.9			
Surr: Nitrobenzene-d5	0		1.886		0	24.5	126			S
Surr: 2-Fluorobiphenyl	1.4		1.886		74.7	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.886		75.6	39.4	107			

Sample ID **1409046-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0060**	Batch ID: **15084**	RunNo: **21003**
Prep Date: **9/3/2014**	Analysis Date: **9/4/2014**	SeqNo: **611405** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.5	0.23	1.891	0	81.7	53.8	92.8	4.94	22	
4-Chloro-3-methylphenol	3.4	0.57	3.771	0	89.0	34.9	104	0.462	27.3	
2-Chlorophenol	3.0	0.23	3.771	0	79.2	18.2	105	5.64	26.3	
1,4-Dichlorobenzene	1.5	0.23	1.891	0	77.3	18.1	112	4.86	27.4	
2,4-Dinitrotoluene	1.2	0.57	1.891	0	65.6	22	144	9.40	27.4	
N-Nitrosodi-n-propylamine	ND	0.23	1.891	0	0	58.6	101	0	22.6	S
4-Nitrophenol	3.1	0.28	3.771	0	81.7	13.7	127	8.53	20	
Pentachlorophenol	3.2	0.45	3.771	0	84.3	16.5	107	19.0	27.1	
Phenol	3.2	0.23	3.771	0	83.6	12.5	114	1.30	32.2	
Pyrene	2.4	0.23	1.891	1.042	71.1	14.2	116	6.83	29.5	
1,2,4-Trichlorobenzene	1.3	0.23	1.891	0	71.0	16	125	4.70	27.8	
Surr: 2-Fluorophenol	2.8		3.771		73.4	21	111	0	0	
Surr: Phenol-d5	2.9		3.771		75.8	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	2.8		3.771		73.9	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	0		1.891		0	24.5	126	0	0	S
Surr: 2-Fluorobiphenyl	1.5		1.891		80.7	21.2	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1409046-007amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0060**	Batch ID:	**15084**		RunNo:	**21003**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**611405**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.5		1.891		80.8	39.4	107	0	0	

Sample ID	**lcs-15084**	SampType:	**LCS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**LCSS**	Batch ID:	**15084**		RunNo:	**21017**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/5/2014**		SeqNo:	**612043**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.670	0	72.1	50.7	110			
4-Chloro-3-methylphenol	2.3	0.50	3.330	0	68.4	47.8	107			
2-Chlorophenol	2.4	0.20	3.330	0	73.0	45.7	108			
1,4-Dichlorobenzene	1.1	0.20	1.670	0	68.5	46.1	112			
2,4-Dinitrotoluene	1.0	0.50	1.670	0	61.9	44.9	114			
N-Nitrosodi-n-propylamine	1.1	0.20	1.670	0	67.3	38.7	128			
4-Nitrophenol	2.4	0.25	3.330	0	70.8	40.2	103			
Pentachlorophenol	1.8	0.40	3.330	0	53.4	32.9	94			
Phenol	2.4	0.20	3.330	0	72.4	44.1	109			
Pyrene	1.2	0.20	1.670	0	73.0	51.9	109			
1,2,4-Trichlorobenzene	1.1	0.20	1.670	0	66.5	49.5	115			
Surr: 2-Fluorophenol	2.3		3.330		69.6	21	111			
Surr: Phenol-d5	2.3		3.330		70.5	23.1	117			
Surr: 2,4,6-Tribromophenol	2.3		3.330		67.8	22.7	88.9			
Surr: Nitrobenzene-d5	1.1		1.670		68.6	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		76.5	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		74.1	39.4	107			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-15088**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**15088**		RunNo:	**20977**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**610672**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-15088**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**15088**		RunNo:	**20977**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**610673**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	25	0.25	25.00	0	99.0	80	120			

Sample ID	**1409046-007AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0060**	Batch ID:	**15088**		RunNo:	**20977**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**610716**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	29	0.55	27.35	10.51	69.1	75	125			S

Sample ID	**1409046-007AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0060**	Batch ID:	**15088**		RunNo:	**20977**				
Prep Date:	**9/3/2014**	Analysis Date:	**9/4/2014**		SeqNo:	**610717**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	30	0.57	28.40	10.51	67.9	75	125	1.32	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611059** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	80	120			
Surr: BFB	470		500.0		94.4	61.2	137			

Sample ID **vcb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611060** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.8	61.2	137			

Sample ID **1409046-007a ms g**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0060**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611064** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	930	42	207.9	691.6	115	58	134			
Surr: BFB	5500		4158		132	61.2	137			

Sample ID **1409046-007a msd g**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0060**	Batch ID: **R20965**	RunNo: **20965**
Prep Date:	Analysis Date: **9/3/2014**	SeqNo: **611065** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	970	42	207.9	691.6	135	58	134	4.33	20	S
Surr: BFB	5700		4158		138	61.2	137	0	0	S

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611658** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.9	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409046**

16-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R21010**		RunNo:	**21010**				
Prep Date:		Analysis Date:	**9/4/2014**		SeqNo:	**611659**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	490		500.0		98.3	61.2	137			

Sample ID	**1409046-001a ms g**	SampType:	**MS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**FFOR-CF-0054**	Batch ID:	**R21010**		RunNo:	**21010**				
Prep Date:		Analysis Date:	**9/4/2014**		SeqNo:	**611661**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	3.5	17.75	0.6602	110	58	134			
Surr: BFB	380		354.9		108	61.2	137			

Sample ID	**1409046-001a msd g**	SampType:	**MSD**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**FFOR-CF-0054**	Batch ID:	**R21010**		RunNo:	**21010**				
Prep Date:		Analysis Date:	**9/4/2014**		SeqNo:	**611662**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.5	17.75	0.6602	114	58	134	2.83	20	
Surr: BFB	400		354.9		112	61.2	137	0	0	

Sample ID	**b1**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**R21061**		RunNo:	**21061**				
Prep Date:		Analysis Date:	**9/5/2014**		SeqNo:	**612882**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.9	61.2	137			

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**		TestCode:	**EPA Method 8015D Mod: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R21061**		RunNo:	**21061**				
Prep Date:		Analysis Date:	**9/5/2014**		SeqNo:	**612884**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80	120			
Surr: BFB	480		500.0		96.8	61.2	137			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409046** RcptNo: **1**

Received by/date: 09/02/14

Logged By: **Ashley Gallegos** **9/2/2014 4:58:00 PM**

Completed By: **Ashley Gallegos** **9/2/2014 5:00:26 PM**

Reviewed By: 09/02/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 02 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/2/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/2/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 4.7°C	Date: 09/02/14 Time: 1058
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID READINGS: FFOR-CF-0055/FFOR-CF-0054=11.8 ppm, FFOR-CF-0056=388 ppm FFOR-CF-0057=35.4 ppm, FFOR-CF-0058=125 ppm, FFOR-CF-0059=1,530 ppm FFOR-CF-0060 and MS/MSD=981 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0054	FFOR-EXC-50-DS-FFOR-CF-0054-REG	02 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		1409046-00
FFOR-CF-0054	FFOR-EXC-50-DS-FFOR-CF-0054-REG	02 SEP 2014	08:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0055	FFOR-EXC-50-DS-FFOR-CF-0055-FD	02 SEP 2014	08:39	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0055	FFOR-EXC-50-DS-FFOR-CF-0055-FD	02 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0056	FFOR-EXC-51-DS-FFOR-CF-0056-REG	02 SEP 2014	11:03	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					1409046
FFOR-CF-0056	FFOR-EXC-51-DS-FFOR-CF-0056-REG	02 SEP 2014	11:03	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
FFOR-CF-0057	FFOR-EXC-52-DS-FFOR-CF-0057-REG	02 SEP 2014	15:04	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004
FFOR-CF-0057	FFOR-EXC-52-DS-FFOR-CF-0057-REG	02 SEP 2014	15:04	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0058	FFOR-EXC-53-DS-FFOR-CF-0058-REG	02 SEP 2014	15:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0058	FFOR-EXC-53-DS-FFOR-CF-0058-REG	02 SEP 2014	15:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0059	FFOR-EXC-54-DS-FFOR-CF-0059-REG	02 SEP 2014	15:15	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0059	FFOR-EXC-54-DS-FFOR-CF-0059-REG	02 SEP 2014	15:15	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060	FFOR-EXC-55-DS-FFOR-CF-0060-REG	02 SEP 2014	15:58	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-007
FFOR-CF-0060	FFOR-EXC-55-DS-FFOR-CF-0060-REG	02 SEP 2014	15:58	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060-MS	FFOR-EXC-55-DS-FFOR-CF-0060-MS-M	02 SEP 2014	15:58	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0060-MS	FFOR-EXC-55-DS-FFOR-CF-0060-MS-M	02 SEP 2014	15:58	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0060-MSD	FFOR-EXC-55-DS-FFOR-CF-0060-MSD-	02 SEP 2014	15:58	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0060-MSD	FFOR-EXC-55-DS-FFOR-CF-0060-MSD-	02 SEP 2014	15:58	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-008
Meoh Blank												

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 15, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409136

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/3/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1409136**
Date: **9/15/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.
Sample "FFOR-CF-0061" the ICV for Methylene chloride was low and the CCV was elevated. This sample was ND for Methylene Chloride
Sample "FFOR-CF-0062" the ICV was elevated for Acetone. This sample was ND for Acetone
"S"flags for sample "FFOR-CF-0062" are due to matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0061
Project: Kirtland AFB
Collection Date: 9/3/2014 12:04:00 PM
Lab ID: 1409136-001
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	8.2	5.7	10	J	mg/Kg-dr	1	9/4/2014 10:41:13 AM	15106
Motor Oil Range Organics (MRO)	ND	52	52		mg/Kg-dr	1	9/4/2014 10:41:13 AM	15106
Surr: DNOP	76.5	0	57.9-140		%REC	1	9/4/2014 10:41:13 AM	15106
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	4.2	1.0	1.0		wt%	1	9/4/2014 9:51:00 AM	R21008
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.5	0.24	0.55		mg/Kg-dr	2	9/6/2014 1:38:50 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.050	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Acenaphthylene	ND	0.051	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Aniline	ND	0.062	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Anthracene	ND	0.045	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Benz(a)anthracene	0.13	0.057	0.21	J	mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Benzo(a)pyrene	0.071	0.063	0.21	J	mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Benzo(b)fluoranthene	0.096	0.072	0.21	J	mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Bis(2-chloroethyl)ether	ND	0.084	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Bis(2-ethylhexyl)phthalate	ND	0.071	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Chloro-3-methylphenol	ND	0.056	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Chloroaniline	ND	0.056	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Chloronaphthalene	ND	0.060	0.26		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Chlorophenol	ND	0.065	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Chlorophenyl phenyl ether	ND	0.059	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Chrysene	0.092	0.053	0.21	J	mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Di-n-butyl phthalate	ND	0.047	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Di-n-octyl phthalate	ND	0.26	0.42		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Dibenz(a,h)anthracene	ND	0.062	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Dibenzofuran	ND	0.070	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
1,3-Dichlorobenzene	ND	0.059	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
1,4-Dichlorobenzene	ND	0.065	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
3,3´-Dichlorobenzidine	ND	0.058	0.26		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0061
Project: Kirtland AFB
Collection Date: 9/3/2014 12:04:00 PM
Lab ID: 1409136-001
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Dimethyl phthalate	ND	0.058	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4-Dimethylphenol	ND	0.062	0.31		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4,6-Dinitro-2-methylphenol	ND	0.043	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4-Dinitrophenol	ND	0.074	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4-Dinitrotoluene	ND	0.077	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,6-Dinitrotoluene	ND	0.062	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Fluoranthene	ND	0.047	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Fluorene	ND	0.061	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Hexachlorobenzene	ND	0.057	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Hexachlorobutadiene	ND	0.050	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Isophorone	ND	0.069	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Methylnaphthalene	ND	0.062	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Methylphenol	ND	0.060	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
N-Nitrosodimethylamine	ND	0.079	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
N-Nitrosodiphenylamine	ND	0.061	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
3-Nitroaniline	ND	0.061	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Nitroaniline	ND	0.050	0.42		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Nitrobenzene	ND	0.059	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Pentachlorophenol	ND	0.085	0.42		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Phenol	ND	0.062	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Pyrene	0.071	0.057	0.21	J	mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Pyridine	ND	0.058	0.52		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4,5-Trichlorophenol	ND	0.046	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
2,4,6-Trichlorophenol	ND	0.057	0.21		mg/Kg-dr	1	9/5/2014 3:34:58 PM	15111
Surr: 2-Fluorophenol	59.0		21-111		%REC	1	9/5/2014 3:34:58 PM	15111
Surr: Phenol-d5	58.7		23.1-117		%REC	1	9/5/2014 3:34:58 PM	15111

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Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	61.5		22.7-88.9		%REC	1	9/5/2014 3:34:58 PM	15111
Surr: Nitrobenzene-d5	67.2		24.5-126		%REC	1	9/5/2014 3:34:58 PM	15111
Surr: 2-Fluorobiphenyl	74.6		21.2-129		%REC	1	9/5/2014 3:34:58 PM	15111
Surr: 4-Terphenyl-d14	70.8		39.4-107		%REC	1	9/5/2014 3:34:58 PM	15111
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Toluene	0.000795	0.000651	0.00130	J	mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Ethylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Xylenes, Total	ND	0.00130	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Methyl tert-butyl ether (MTBE)	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2,4-Trimethylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,3,5-Trimethylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2-Dichloroethane (EDC)	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2-Dibromoethane (EDB)	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Naphthalene	ND	0.00130	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Acetone	0.0420	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Bromobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Bromodichloromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Bromoform	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Bromomethane	0.000966	0.000651	0.00326	J	mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
2-Butanone	0.00978	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Carbon tetrachloride	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Chlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Chloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Chloroform	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Chloromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
2-Chlorotoluene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Carbon disulfide	ND	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
4-Chlorotoluene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
cis-1,2-DCE	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
cis-1,3-Dichloropropene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2-Dibromo-3-chloropropane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Dibromochloromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Dibromomethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2-Dichlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,3-Dichlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,4-Dichlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Dichlorodifluoromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1-Dichloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0061
Project: Kirtland AFB
Collection Date: 9/3/2014 12:04:00 PM
Lab ID: 1409136-001
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2-Dichloropropane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,3-Dichloropropane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
2,2-Dichloropropane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1-Dichloropropene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Hexachlorobutadiene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Isopropylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
4-Isopropyltoluene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Methylene chloride	ND	0.00130	0.00326		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
n-Butylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
2-Hexanone	ND	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
n-Propylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
sec-Butylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Styrene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
4-Methyl-2-pentanone	ND	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
tert-Butylbenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1,1,2-Tetrachloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1,2,2-Tetrachloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Tetrachloroethene (PCE)	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
trans-1,2-DCE	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
trans-1,3-Dichloropropene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2,3-Trichlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2,4-Trichlorobenzene	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1,1-Trichloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,1,2-Trichloroethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Trichloroethene (TCE)	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Trichlorofluoromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
1,2,3-Trichloropropane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Vinyl chloride	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Vinyl acetate	ND	0.00651	0.00651		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Bromochloromethane	ND	0.000651	0.00130		mg/Kg-dr	1	9/4/2014 4:30:56 PM	15112
Surr: 1,2-Dichloroethane-d4	118	0	70-130		%REC	1	9/4/2014 4:30:56 PM	15112
Surr: 4-Bromofluorobenzene	99.3	0	65.3-135		%REC	1	9/4/2014 4:30:56 PM	15112
Surr: Dibromofluoromethane	105	0	70-130		%REC	1	9/4/2014 4:30:56 PM	15112
Surr: Toluene-d8	100	0	70-130		%REC	1	9/4/2014 4:30:56 PM	15112
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.46	3.5		mg/Kg-dr	1	9/4/2014 11:40:01 AM	R21010
Surr: BFB	108	0	61.2-137		%REC	1	9/4/2014 11:40:01 AM	R21010

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0062
Project: Kirtland AFB
Collection Date: 9/3/2014 12:10:00 PM
Lab ID: 1409136-002
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	360	6.0	11		mg/Kg-dr	1	9/4/2014 12:11:13 PM	15106
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/4/2014 12:11:13 PM	15106
Surr: DNOP	83.1	0	57.9-140		%REC	1	9/4/2014 12:11:13 PM	15106
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.2	1.0	1.0		wt%	1	9/4/2014 9:51:00 AM	R21008
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	28	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:19:43 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Acenaphthylene	ND	0.11	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Aniline	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Anthracene	ND	0.094	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Benz(a)anthracene	0.37	0.12	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Benzo(a)pyrene	0.40	0.13	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Benzo(b)fluoranthene	0.71	0.15	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Benzo(g,h,i)perylene	0.24	0.13	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Benzo(k)fluoranthene	ND	0.17	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Bis(2-chloroethoxy)methane	ND	0.15	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Bis(2-chloroethyl)ether	ND	0.17	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Bis(2-chloroisopropyl)ether	ND	0.081	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Bromophenyl phenyl ether	ND	0.11	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Butyl benzyl phthalate	ND	0.093	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Carbazole	ND	0.098	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Chloro-3-methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Chloroaniline	ND	0.12	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Chloronaphthalene	ND	0.12	0.55		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Chlorophenol	ND	0.14	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Chlorophenyl phenyl ether	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Chrysene	0.56	0.11	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Di-n-butyl phthalate	ND	0.098	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Di-n-octyl phthalate	ND	0.55	0.87		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Dibenz(a,h)anthracene	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Dibenzofuran	ND	0.15	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
1,2-Dichlorobenzene	ND	0.085	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
1,3-Dichlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
1,4-Dichlorobenzene	ND	0.14	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
3,3´-Dichlorobenzidine	ND	0.12	0.55		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0062
Project: Kirtland AFB
Collection Date: 9/3/2014 12:10:00 PM
Lab ID: 1409136-002
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.098	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Dimethyl phthalate	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4-Dichlorophenol	ND	0.13	0.87		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4-Dimethylphenol	ND	0.13	0.65		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4,6-Dinitro-2-methylphenol	ND	0.089	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Fluoranthene	0.39	0.098	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Fluorene	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Hexachlorobenzene	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Hexachlorobutadiene	ND	0.10	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Hexachlorocyclopentadiene	ND	0.14	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Hexachloroethane	ND	0.15	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Indeno(1,2,3-cd)pyrene	0.24	0.14	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Methylnaphthalene	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
3+4-Methylphenol	ND	0.15	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
N-Nitrosodi-n-propylamine	ND	0.14	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
N-Nitrosodimethylamine	ND	0.16	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
N-Nitrosodiphenylamine	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Naphthalene	ND	0.10	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Nitroaniline	ND	0.11	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
3-Nitroaniline	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Nitroaniline	ND	0.10	0.87		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2-Nitrophenol	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
4-Nitrophenol	ND	0.13	0.55		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Pentachlorophenol	ND	0.18	0.87		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Phenanthrene	0.22	0.079	0.44	J	mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Phenol	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Pyrene	0.46	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
1,2,4-Trichlorobenzene	ND	0.13	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4,5-Trichlorophenol	ND	0.097	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
2,4,6-Trichlorophenol	ND	0.12	0.44		mg/Kg-dr	1	9/5/2014 5:02:45 PM	15111
Surr: 2-Fluorophenol	68.9		21-111		%REC	1	9/5/2014 5:02:45 PM	15111
Surr: Phenol-d5	68.5		23.1-117		%REC	1	9/5/2014 5:02:45 PM	15111

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0062
Project: Kirtland AFB
Collection Date: 9/3/2014 12:10:00 PM
Lab ID: 1409136-002
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	78.3		22.7-88.9		%REC	1	9/5/2014 5:02:45 PM	15111
Surr: Nitrobenzene-d5	74.1		24.5-126		%REC	1	9/5/2014 5:02:45 PM	15111
Surr: 2-Fluorobiphenyl	82.6		21.2-129		%REC	1	9/5/2014 5:02:45 PM	15111
Surr: 4-Terphenyl-d14	78.9		39.4-107		%REC	1	9/5/2014 5:02:45 PM	15111
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0041	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Toluene	ND	0.0042	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Ethylbenzene	ND	0.0040	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Methyl tert-butyl ether (MTBE)	ND	0.014	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2,4-Trimethylbenzene	ND	0.0046	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,3,5-Trimethylbenzene	0.36	0.0040	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2-Dichloroethane (EDC)	ND	0.0062	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2-Dibromoethane (EDB)	ND	0.0043	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Naphthalene	0.27	0.0031	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Acetone	ND	0.037	0.57		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Bromobenzene	ND	0.0059	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Bromodichloromethane	ND	0.0049	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Bromoform	ND	0.0035	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Bromomethane	ND	0.0054	0.11		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
2-Butanone	ND	0.017	0.38		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Carbon disulfide	ND	0.010	0.38		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Carbon tetrachloride	ND	0.0053	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Chlorobenzene	ND	0.0042	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Chloroethane	ND	0.0063	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Chloroform	ND	0.013	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Chloromethane	ND	0.0035	0.11		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
2-Chlorotoluene	ND	0.0033	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
4-Chlorotoluene	ND	0.011	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
cis-1,2-DCE	ND	0.0035	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
cis-1,3-Dichloropropene	ND	0.0047	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2-Dibromo-3-chloropropane	ND	0.0052	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Dibromochloromethane	ND	0.0037	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Dibromomethane	ND	0.0043	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2-Dichlorobenzene	ND	0.0045	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,3-Dichlorobenzene	ND	0.0045	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,4-Dichlorobenzene	ND	0.0045	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Dichlorodifluoromethane	ND	0.0092	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1-Dichloroethane	ND	0.0026	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1-Dichloroethene	ND	0.0030	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0062
Project: Kirtland AFB
Collection Date: 9/3/2014 12:10:00 PM
Lab ID: 1409136-002
Matrix: MEOH (SOIL)
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.0034	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,3-Dichloropropane	ND	0.0071	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
2,2-Dichloropropane	ND	0.0041	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1-Dichloropropene	ND	0.0059	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Hexachlorobutadiene	ND	0.0056	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
2-Hexanone	ND	0.018	0.38		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Isopropylbenzene	ND	0.0030	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
4-Isopropyltoluene	ND	0.0034	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
4-Methyl-2-pentanone	ND	0.015	0.38		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Methylene chloride	0.037	0.0036	0.11	J	mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
n-Butylbenzene	ND	0.0033	0.11		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
n-Propylbenzene	ND	0.0038	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
sec-Butylbenzene	ND	0.0037	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Styrene	ND	0.0030	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
tert-Butylbenzene	ND	0.0042	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1,1,2-Tetrachloroethane	ND	0.0045	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1,2,2-Tetrachloroethane	ND	0.0063	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Tetrachloroethene (PCE)	ND	0.0046	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
trans-1,2-DCE	ND	0.0042	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
trans-1,3-Dichloropropene	ND	0.0052	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2,3-Trichlorobenzene	ND	0.0042	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2,4-Trichlorobenzene	ND	0.0042	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1,1-Trichloroethane	ND	0.0038	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,1,2-Trichloroethane	ND	0.0046	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Trichloroethene (TCE)	ND	0.0052	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Trichlorofluoromethane	ND	0.0039	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
1,2,3-Trichloropropane	ND	0.0057	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Vinyl chloride	ND	0.0031	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Xylenes, Total	ND	0.011	0.076		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Bromochloromethane	ND	0.017	0.038		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Vinyl acetate	ND	0.38	0.38		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Surr: Dibromofluoromethane	85.6	0	70-130		%REC	1	9/4/2014 12:08:09 PM	R21010
Surr: 1,2-Dichloroethane-d4	85.3	0	70-130		%REC	1	9/4/2014 12:08:09 PM	R21010
Surr: Toluene-d8	91.0	0	70-130		%REC	1	9/4/2014 12:08:09 PM	R21010
Surr: 4-Bromofluorobenzene	277	0	70-130	S	%REC	1	9/4/2014 12:08:09 PM	R21010
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	130	0.49	3.8		mg/Kg-dr	1	9/4/2014 12:08:09 PM	R21010
Surr: BFB	346	0	61.2-137	S	%REC	1	9/4/2014 12:08:09 PM	R21010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0083
Project: Kirtland AFB
Collection Date: 9/3/2014 8:28:00 AM
Lab ID: 1409136-003
Matrix: SOIL
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0056	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
1-Methylnaphthalene	ND	0.0056	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Fluorene	ND	0.0072	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Phenanthrene	ND	0.0057	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Anthracene	ND	0.0060	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Fluoranthene	ND	0.0062	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Pyrene	0.0070	0.0049	0.020	J	mg/Kg	1	9/5/2014 6:19:36 PM	15113
Benz(a)anthracene	ND	0.0051	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Chrysene	0.0097	0.0036	0.020	J	mg/Kg	1	9/5/2014 6:19:36 PM	15113
Benzo(b)fluoranthene	0.061	0.0065	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Benzo(a)pyrene	ND	0.0076	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Dibenz(a,h)anthracene	0.011	0.0073	0.020	J	mg/Kg	1	9/5/2014 6:19:36 PM	15113
Benzo(g,h,i)perylene	0.077	0.0058	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Indeno(1,2,3-cd)pyrene	0.055	0.0068	0.020		mg/Kg	1	9/5/2014 6:19:36 PM	15113
Surr: N-hexadecane	57.4	0	27-106		%REC	1	9/5/2014 6:19:36 PM	15113
Surr: Benzo(e)pyrene	72.2	0	34.7-131		%REC	1	9/5/2014 6:19:36 PM	15113

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409136-004
Matrix: MEOH BLAN
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Toluene	ND	0.0055	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Naphthalene	ND	0.0042	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Acetone	ND	0.049	0.75		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Bromoform	ND	0.0047	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Bromomethane	ND	0.0071	0.15		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
2-Butanone	ND	0.023	0.50		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Chloroethane	ND	0.0083	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Chloroform	ND	0.017	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Chloromethane	ND	0.0046	0.15		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409136-004
Matrix: MEOH BLAN
Received Date: 9/3/2014 4:50:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Methylene chloride	0.046	0.0047	0.15	J	mg/Kg	1	9/4/2014 11:10:43 AM	R21010
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Styrene	ND	0.0039	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Surr: Dibromofluoromethane	87.9	0	70-130		%REC	1	9/4/2014 11:10:43 AM	R21010
Surr: 1,2-Dichloroethane-d4	83.0	0	70-130		%REC	1	9/4/2014 11:10:43 AM	R21010
Surr: Toluene-d8	97.3	0	70-130		%REC	1	9/4/2014 11:10:43 AM	R21010
Surr: 4-Bromofluorobenzene	85.6	0	70-130		%REC	1	9/4/2014 11:10:43 AM	R21010
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	9/4/2014 11:10:43 AM	R21010
Surr: BFB	97.9	0	61.2-137		%REC	1	9/4/2014 11:10:43 AM	R21010

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15106**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15106**	RunNo: **20982**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **610877** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.8	57.9	140			

Sample ID **LCS-15106**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15106**	RunNo: **20982**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **610878** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.6	130			
Surr: DNOP	4.1		5.000		82.5	57.9	140			

Sample ID **1409136-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0061**	Batch ID: **15106**	RunNo: **20980**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **610908** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	51.93	8.203	79.4	40.1	152			
Surr: DNOP	4.1		5.193		79.1	57.9	140			

Sample ID **1409136-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0061**	Batch ID: **15106**	RunNo: **20980**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **610909** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	11	52.66	8.203	76.0	40.1	152	2.40	32.1	
Surr: DNOP	4.3		5.266		82.2	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.064	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		95.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.8	70	130			
Surr: Toluene-d8	0.47		0.5000		95.0	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611692** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	70	130			
Toluene	1.1	0.050	1.000	0	107	70	130			
Chlorobenzene	0.99	0.050	1.000	0	98.8	70	130			
1,1-Dichloroethene	1.3	0.050	1.000	0	125	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	116	58.8	139			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611692** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.49		0.5000		98.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.1	70	130			

Sample ID **mb-15063**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **15063**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611758** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		78.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.0	70	130			

Sample ID **lcs-15063**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **15063**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611759** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.41		0.5000		81.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.7	70	130			
Surr: Toluene-d8	0.46		0.5000		91.6	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.4	70	130			

Sample ID **MB-15063 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611882** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15063 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611882** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.12	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.043	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15063 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611882** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.41		0.5000		81.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.39		0.5000		78.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.0	70	130			

Sample ID **LCS-15063 MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date: **9/2/2014**	Analysis Date: **9/5/2014**	SeqNo: **611883** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.8	70	130			
Toluene	0.98	0.050	1.000	0	98.0	70	130			
Chlorobenzene	0.92	0.050	1.000	0	92.1	70	130			
1,1-Dichloroethene	0.89	0.050	1.000	0	89.2	60.5	160			
Trichloroethene (TCE)	0.91	0.050	1.000	0	91.4	58.8	139			
Surr: Dibromofluoromethane	0.41		0.5000		81.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.7	70	130			
Surr: Toluene-d8	0.46		0.5000		91.6	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15112**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00151	0.00200								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15112**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611645** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0201		0.02000		100	70	130			
Surr: 4-Bromofluorobenzene	0.0211		0.02000		106	65.3	135			
Surr: Dibromofluoromethane	0.0194		0.02000		96.8	70	130			
Surr: Toluene-d8	0.0199		0.02000		99.7	70	130			

Sample ID **lcs-15112**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **15112**	RunNo: **21009**
Prep Date: **9/4/2014**	Analysis Date: **9/4/2014**	SeqNo: **611647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00484	0.00200	0.005000	0	96.7	70	130			
Toluene	0.00523	0.00200	0.005000	0	105	70	130			
Chlorobenzene	0.00490	0.00200	0.005000	0	98.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-15112**	SampType:	**LCS**	TestCode:	**Method 8260B/5035LOW: VOLATILES**
Client ID:	**LCSS**	Batch ID:	**15112**	RunNo:	**21009**
Prep Date:	**9/4/2014**	Analysis Date:	**9/4/2014**	SeqNo:	**611647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00455	0.00200	0.005000	0	90.9	70	130			
Trichloroethene (TCE)	0.00488	0.00200	0.005000	0	97.5	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0199		0.02000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.0209		0.02000		104	65.3	135			
Surr: Dibromofluoromethane	0.0184		0.02000		92.2	70	130			
Surr: Toluene-d8	0.0202		0.02000		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15111**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15111**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612341** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	0.053	0.50								J
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15111**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15111**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612341** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.6		3.330		78.6	21	111			
Surr: Phenol-d5	2.4		3.330		73.1	23.1	117			
Surr: 2,4,6-Tribromophenol	1.9		3.330		56.7	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.670		76.4	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		78.2	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		70.4	39.4	107			

Sample ID **lcs-15111**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15111**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15111**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15111**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.670	0	70.7	50.7	110			
4-Chloro-3-methylphenol	2.3	0.50	3.330	0	70.5	47.8	107			
2-Chlorophenol	2.5	0.20	3.330	0	76.5	45.7	108			
1,4-Dichlorobenzene	1.2	0.20	1.670	0	71.2	46.1	112			
2,4-Dinitrotoluene	1.0	0.50	1.670	0	62.4	44.9	114			
N-Nitrosodi-n-propylamine	1.0	0.20	1.670	0	60.6	38.7	128			
4-Nitrophenol	2.5	0.25	3.330	0	75.9	40.2	103			
Pentachlorophenol	1.7	0.40	3.330	0	52.2	32.9	94			
Phenol	2.6	0.20	3.330	0	77.2	44.1	109			
Pyrene	1.4	0.20	1.670	0	81.4	51.9	109			
1,2,4-Trichlorobenzene	1.2	0.20	1.670	0	71.0	49.5	115			
Surr: 2-Fluorophenol	2.4		3.330		72.0	21	111			
Surr: Phenol-d5	2.5		3.330		74.2	23.1	117			
Surr: 2,4,6-Tribromophenol	2.1		3.330		62.4	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		81.9	24.5	126			
Surr: 2-Fluorobiphenyl	1.4		1.670		81.2	21.2	129			
Surr: 4-Terphenyl-d14	1.4		1.670		86.4	39.4	107			

Sample ID **1409136-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0061**	Batch ID: **15111**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612347** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.1	0.21	1.739	0	60.7	53.8	92.8			
4-Chloro-3-methylphenol	2.1	0.52	3.468	0	61.7	34.9	104			
2-Chlorophenol	2.1	0.21	3.468	0	61.0	18.2	105			
1,4-Dichlorobenzene	0.97	0.21	1.739	0	56.0	18.1	112			
2,4-Dinitrotoluene	0.98	0.52	1.739	0	56.3	22	144			
N-Nitrosodi-n-propylamine	0.93	0.21	1.739	0	53.3	58.6	101			S
4-Nitrophenol	2.4	0.26	3.468	0	68.2	13.7	127			
Pentachlorophenol	2.0	0.42	3.468	0	56.8	16.5	107			
Phenol	2.2	0.21	3.468	0	62.6	12.5	114			
Pyrene	1.2	0.21	1.739	0.07136	64.5	14.2	116			
1,2,4-Trichlorobenzene	1.1	0.21	1.739	0	61.4	16	125			
Surr: 2-Fluorophenol	2.1		3.468		59.9	21	111			
Surr: Phenol-d5	2.0		3.468		58.0	23.1	117			
Surr: 2,4,6-Tribromophenol	2.1		3.468		60.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.2		1.739		69.8	24.5	126			
Surr: 2-Fluorobiphenyl	1.2		1.739		71.4	21.2	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1409136-001ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0061**	Batch ID:	**15111**		RunNo:	**21017**				
Prep Date:	**9/4/2014**	Analysis Date:	**9/5/2014**		SeqNo:	**612347**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.1		1.739		63.0	39.4	107			

Sample ID	**1409136-001amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0061**	Batch ID:	**15111**		RunNo:	**21017**				
Prep Date:	**9/4/2014**	Analysis Date:	**9/5/2014**		SeqNo:	**612348**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.21	1.748	0	66.1	53.8	92.8	9.09	22	
4-Chloro-3-methylphenol	2.3	0.52	3.486	0	66.9	34.9	104	8.55	27.3	
2-Chlorophenol	2.4	0.21	3.486	0	68.9	18.2	105	12.7	26.3	
1,4-Dichlorobenzene	1.1	0.21	1.748	0	61.9	18.1	112	10.6	27.4	
2,4-Dinitrotoluene	1.2	0.52	1.748	0	68.4	22	144	19.9	27.4	
N-Nitrosodi-n-propylamine	1.1	0.21	1.748	0	63.3	58.6	101	17.7	22.6	
4-Nitrophenol	2.9	0.26	3.486	0	82.5	13.7	127	19.5	20	
Pentachlorophenol	2.3	0.42	3.486	0	65.8	16.5	107	15.2	27.1	
Phenol	2.4	0.21	3.486	0	67.9	12.5	114	8.74	32.2	
Pyrene	1.4	0.21	1.748	0.07136	74.3	14.2	116	13.9	29.5	
1,2,4-Trichlorobenzene	1.1	0.21	1.748	0	62.2	16	125	1.76	27.8	
Surr: 2-Fluorophenol	2.2		3.486		62.8	21	111	0	0	
Surr: Phenol-d5	2.3		3.486		65.9	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	1.9		3.486		55.8	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.2		1.748		69.1	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.3		1.748		72.3	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.3		1.748		72.6	39.4	107	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15113**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612358** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.86		1.460		59.1	27	106			
Surr: Benzo(e)pyrene	0.20		0.3300		61.9	34.7	131			

Sample ID **lcs-15113**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612360** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.020	0.3300	0	76.5	50.1	116			
1-Methylnaphthalene	0.26	0.020	0.3300	0	79.8	50.8	121			
2-Methylnaphthalene	0.26	0.020	0.3300	0	77.6	50.4	120			
Acenaphthylene	0.25	0.020	0.3300	0	76.0	53	112			
Acenaphthene	0.25	0.020	0.3300	0	76.7	51.4	112			
Fluorene	0.26	0.020	0.3300	0	77.3	51	116			
Phenanthrene	0.28	0.020	0.3300	0	85.3	46.3	120			
Anthracene	0.27	0.020	0.3300	0	81.9	46.4	118			
Fluoranthene	0.29	0.020	0.3300	0	87.3	46.4	123			
Pyrene	0.26	0.020	0.3300	0	79.9	43.3	122			
Benz(a)anthracene	0.27	0.020	0.3300	0	80.4	44.3	118			
Chrysene	0.26	0.020	0.3300	0	78.1	45.5	116			
Benzo(b)fluoranthene	0.24	0.020	0.3300	0	73.6	50.5	123			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15113**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612360** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.25	0.020	0.3300	0	75.7	49.7	117			
Benzo(a)pyrene	0.23	0.020	0.3300	0	70.1	50.8	111			
Dibenz(a,h)anthracene	0.28	0.020	0.3300	0	84.2	49.8	127			
Benzo(g,h,i)perylene	0.26	0.020	0.3300	0	79.8	46.4	122			
Indeno(1,2,3-cd)pyrene	0.26	0.020	0.3300	0	77.9	50.1	120			
Surr: N-hexadecane	0.77		1.460		52.8	27	106			
Surr: Benzo(e)pyrene	0.18		0.3300		54.9	34.7	131			

Sample ID **1409136-003ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0083**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612368** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3288	0	81.7	42.6	115			
1-Methylnaphthalene	0.30	0.020	0.3288	0	90.2	42.4	122			
2-Methylnaphthalene	0.28	0.020	0.3288	0	85.2	45.2	120			
Acenaphthylene	0.27	0.020	0.3288	0	82.2	39.7	116			
Acenaphthene	0.27	0.020	0.3288	0	81.4	41.4	119			
Fluorene	0.29	0.020	0.3288	0	87.3	44.2	123			
Phenanthrene	0.33	0.020	0.3288	0	101	48	120			
Anthracene	0.32	0.020	0.3288	0	96.6	43.8	120			
Fluoranthene	0.31	0.020	0.3288	0	93.5	54	125			
Pyrene	0.33	0.020	0.3288	0.006995	97.4	55	120			
Benz(a)anthracene	0.32	0.020	0.3288	0	97.0	50.9	125			
Chrysene	0.31	0.020	0.3288	0.009660	90.3	45.3	127			
Benzo(b)fluoranthene	0.37	0.020	0.3288	0.06129	93.7	49.3	131			
Benzo(k)fluoranthene	0.33	0.020	0.3288	0	99.3	50.6	127			
Benzo(a)pyrene	0.31	0.020	0.3288	0	95.5	53.8	117			
Dibenz(a,h)anthracene	0.36	0.020	0.3288	0.01066	107	52	130			
Benzo(g,h,i)perylene	0.40	0.020	0.3288	0.07695	99.3	49.4	123			
Indeno(1,2,3-cd)pyrene	0.39	0.020	0.3288	0.05530	100	49.5	124			
Surr: N-hexadecane	0.83		1.455		57.0	27	106			
Surr: Benzo(e)pyrene	0.24		0.3288		71.6	34.7	131			

Sample ID **1409136-003amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0083**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612369** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.28	0.020	0.3282	0	84.9	42.6	115	3.71	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409136-003amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0083**	Batch ID: **15113**	RunNo: **21017**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **612369** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.31	0.020	0.3282	0	93.0	42.4	122	2.92	20	
2-Methylnaphthalene	0.29	0.020	0.3282	0	87.7	45.2	120	2.76	21.2	
Acenaphthylene	0.24	0.020	0.3282	0	71.9	39.7	116	13.5	20	
Acenaphthene	0.24	0.020	0.3282	0	71.7	41.4	119	12.8	20.5	
Fluorene	0.26	0.020	0.3282	0	79.9	44.2	123	8.99	20	
Phenanthrene	0.31	0.020	0.3282	0	95.3	48	120	5.73	22	
Anthracene	0.30	0.020	0.3282	0	91.0	43.8	120	6.09	26.6	
Fluoranthene	0.31	0.020	0.3282	0	94.3	54	125	0.694	23.7	
Pyrene	0.28	0.020	0.3282	0.006995	84.3	55	120	14.2	29.3	
Benz(a)anthracene	0.27	0.020	0.3282	0	82.1	50.9	125	16.7	25.4	
Chrysene	0.27	0.020	0.3282	0.009660	80.1	45.3	127	11.7	27.6	
Benzo(b)fluoranthene	0.35	0.020	0.3282	0.06129	86.6	49.3	131	6.67	20	
Benzo(k)fluoranthene	0.29	0.020	0.3282	0	89.6	50.6	127	10.4	31.3	
Benzo(a)pyrene	0.28	0.020	0.3282	0	86.2	53.8	117	10.4	22.1	
Dibenz(a,h)anthracene	0.33	0.020	0.3282	0.01066	97.3	52	130	9.83	21.2	
Benzo(g,h,i)perylene	0.38	0.020	0.3282	0.07695	91.6	49.4	123	6.62	25.9	
Indeno(1,2,3-cd)pyrene	0.37	0.020	0.3282	0.05530	94.8	49.5	124	5.11	20.4	
Surr: N-hexadecane	0.73		1.452		50.5	27	106	0	0	
Surr: Benzo(e)pyrene	0.22		0.3282		65.7	34.7	131	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-15138**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**15138**	RunNo:	**21037**					
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**	SeqNo:	**612275**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-15138**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**15138**	RunNo:	**21037**					
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**	SeqNo:	**612276**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	93.5	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409136**

15-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611658** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.9	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21010**	RunNo: **21010**
Prep Date:	Analysis Date: **9/4/2014**	SeqNo: **611659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	490		500.0		98.3	61.2	137			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409136** RcptNo: **1**

Received by/date: 09/03/14

Logged By: **Ashley Gallegos** **9/3/2014 4:50:00 PM**

Completed By: **Ashley Gallegos** **9/3/2014 5:03:02 PM**

Reviewed By: KMS 09/03/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 03 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/3/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/3/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 4.8°C	Date: 09/03/14 Time: 1650
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID: FFOR-CF-0083=175 PPM, FFOR-CF-0061=29.8 PPM, FFOR-CF-0062=894 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0061	FFOR-EXC-56-DS-FFOR-CF-0061-REG	03 SEP 2014	12:04	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1409136-C
FFOR-CF-0061	FFOR-EXC-56-DS-FFOR-CF-0061-REG	03 SEP 2014	12:04	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0062	FFOR-EXC-57-DS-FFOR-CF-0062-REG	03 SEP 2014	12:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
FFOR-CF-0062	FFOR-EXC-57-DS-FFOR-CF-0062-REG	03 SEP 2014	12:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0083	FFOR-EXCSO-06-SO-FFOR-CF-0083-RE	03 SEP 2014	08:28	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level -			N		-003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-00

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
						SIM)					

Date: Relinquished By: (Signature/Affiliation) Received By: (Signature/Affiliation)

Time: Relinquished By: (Signature/Affiliation) Received By: (Signature/Affiliation)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409219

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 10 sample(s) on 9/4/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1409219**
Date: **9/18/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.
Samples "FFOR-CF-0063, FFOR-CF-0064, FFOR-CF-0065, FFOR-CF-0066, FFOR-CF-0067, FFOR-CF-0068, FFOR-CF-0070" the ICV for Methylene chloride and bromomethane was low and the CCV was elevated. These sample were ND for Methylene Chloride
Samples "FFOR-CF-0069, FFOR-CF-0071, MeOH Blank" the ICV was elevated for Acetone. These samples were ND for Acetone

"S"flags regarding surrogate recoveries are due to matrix interferences and dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0063
Project: Kirtland AFB
Collection Date: 9/4/2014 8:42:00 AM
Lab ID: 1409219-001
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/8/2014 1:13:27 PM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/8/2014 1:13:27 PM	15134
Surr: DNOP	62.5	0	57.9-140		%REC	1	9/8/2014 1:13:27 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.2	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	6.0	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:21:00 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Acenaphthylene	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Aniline	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Anthracene	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Benz(a)anthracene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Benzo(a)pyrene	ND	0.65	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Benzo(b)fluoranthene	ND	0.74	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Benzo(g,h,i)perylene	ND	0.65	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Benzo(k)fluoranthene	ND	0.82	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Bis(2-chloroethoxy)methane	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Bis(2-chloroethyl)ether	ND	0.86	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.40	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.72	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Bromophenyl phenyl ether	ND	0.54	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Butyl benzyl phthalate	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Carbazole	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Chloro-3-methylphenol	ND	0.57	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Chloroaniline	ND	0.57	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Chloronaphthalene	ND	0.61	2.7		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Chlorophenol	ND	0.67	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Chlorophenyl phenyl ether	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Chrysene	ND	0.55	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Di-n-butyl phthalate	ND	0.48	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Di-n-octyl phthalate	ND	2.7	4.3		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Dibenz(a,h)anthracene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Dibenzofuran	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
1,2-Dichlorobenzene	ND	0.42	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
1,3-Dichlorobenzene	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
1,4-Dichlorobenzene	ND	0.67	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
3,3´-Dichlorobenzidine	ND	0.59	2.7		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0063
Project: Kirtland AFB
Collection Date: 9/4/2014 8:42:00 AM
Lab ID: 1409219-001
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Dimethyl phthalate	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4-Dichlorophenol	ND	0.66	4.3		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4-Dimethylphenol	ND	0.64	3.2		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.44	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4-Dinitrophenol	ND	0.76	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4-Dinitrotoluene	ND	0.79	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,6-Dinitrotoluene	ND	0.64	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Fluoranthene	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Fluorene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Hexachlorobenzene	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Hexachlorobutadiene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Hexachlorocyclopentadiene	ND	0.69	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Hexachloroethane	ND	0.75	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Isophorone	ND	0.70	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Methylnaphthalene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Methylphenol	ND	0.61	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
3+4-Methylphenol	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
N-Nitrosodi-n-propylamine	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
N-Nitrosodimethylamine	ND	0.81	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
N-Nitrosodiphenylamine	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Naphthalene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Nitroaniline	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
3-Nitroaniline	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Nitroaniline	ND	0.52	4.3		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Nitrobenzene	ND	0.60	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2-Nitrophenol	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
4-Nitrophenol	ND	0.66	2.7		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Pentachlorophenol	ND	0.87	4.3		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Phenanthrene	ND	0.39	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Phenol	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Pyrene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Pyridine	ND	0.59	5.4		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
1,2,4-Trichlorobenzene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4,5-Trichlorophenol	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
2,4,6-Trichlorophenol	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 1:40:01 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 1:40:01 PM	15158
Surr: Phenol-d5	0		23.1-117	S	%REC	1	9/8/2014 1:40:01 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0063
Project: Kirtland AFB
Collection Date: 9/4/2014 8:42:00 AM
Lab ID: 1409219-001
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	1	9/8/2014 1:40:01 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 1:40:01 PM	15158
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	1	9/8/2014 1:40:01 PM	15158
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	1	9/8/2014 1:40:01 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Toluene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Ethylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Xylenes, Total	ND	0.000740	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2,4-Trimethylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,3,5-Trimethylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Naphthalene	ND	0.000740	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Acetone	0.00417	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Bromobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Bromodichloromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Bromoform	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Bromomethane	0.000493	0.000370	0.00185	J	mg/Kg	1	9/5/2014 12:35:13 PM	15137
2-Butanone	ND	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Carbon tetrachloride	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Chlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Chloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Chloroform	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Chloromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
2-Chlorotoluene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Carbon disulfide	ND	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
4-Chlorotoluene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
cis-1,2-DCE	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
cis-1,3-Dichloropropene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Dibromochloromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Dibromomethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2-Dichlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,3-Dichlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,4-Dichlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Dichlorodifluoromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1-Dichloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0063
Project: Kirtland AFB
Collection Date: 9/4/2014 8:42:00 AM
Lab ID: 1409219-001
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2-Dichloropropane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,3-Dichloropropane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
2,2-Dichloropropane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1-Dichloropropene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Hexachlorobutadiene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Isopropylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
4-Isopropyltoluene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Methylene chloride	ND	0.000740	0.00185		mg/Kg	1	9/5/2014 12:35:13 PM	15137
n-Butylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
2-Hexanone	ND	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
n-Propylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
sec-Butylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Styrene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
4-Methyl-2-pentanone	ND	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
tert-Butylbenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Tetrachloroethene (PCE)	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
trans-1,2-DCE	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
trans-1,3-Dichloropropene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2,3-Trichlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2,4-Trichlorobenzene	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1,1-Trichloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,1,2-Trichloroethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Trichloroethene (TCE)	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Trichlorofluoromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
1,2,3-Trichloropropane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Vinyl chloride	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Vinyl acetate	ND	0.00370	0.00370		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Bromochloromethane	ND	0.000370	0.000740		mg/Kg	1	9/5/2014 12:35:13 PM	15137
Surr: 1,2-Dichloroethane-d4	115	0	70-130		%REC	1	9/5/2014 12:35:13 PM	15137
Surr: 4-Bromofluorobenzene	107	0	65.3-135		%REC	1	9/5/2014 12:35:13 PM	15137
Surr: Dibromofluoromethane	106	0	70-130		%REC	1	9/5/2014 12:35:13 PM	15137
Surr: Toluene-d8	99.4	0	70-130		%REC	1	9/5/2014 12:35:13 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.52	4.0		mg/Kg-dr	1	9/8/2014 11:59:31 AM	R21086
Surr: BFB	99.9	0	61.2-137		%REC	1	9/8/2014 11:59:31 AM	R21086

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0064
Project: Kirtland AFB
Collection Date: 9/4/2014 8:50:00 AM
Lab ID: 1409219-002
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/8/2014 1:35:19 PM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/8/2014 1:35:19 PM	15134
Surr: DNOP	70.8	0	57.9-140		%REC	1	9/8/2014 1:35:19 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.0	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	7.9	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:22:17 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Acenaphthylene	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Aniline	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Anthracene	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Benz(a)anthracene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Benzo(a)pyrene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Benzo(b)fluoranthene	ND	0.73	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Benzo(g,h,i)perylene	ND	0.65	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Benzo(k)fluoranthene	ND	0.81	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Bis(2-chloroethoxy)methane	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Bis(2-chloroethyl)ether	ND	0.86	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.40	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.72	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Bromophenyl phenyl ether	ND	0.54	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Butyl benzyl phthalate	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Carbazole	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Chloro-3-methylphenol	ND	0.57	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Chloroaniline	ND	0.57	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Chloronaphthalene	ND	0.61	2.7		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Chlorophenol	ND	0.67	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Chlorophenyl phenyl ether	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Chrysene	ND	0.54	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Di-n-butyl phthalate	ND	0.48	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Di-n-octyl phthalate	ND	2.7	4.3		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Dibenz(a,h)anthracene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Dibenzofuran	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
1,2-Dichlorobenzene	ND	0.42	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
1,3-Dichlorobenzene	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
1,4-Dichlorobenzene	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
3,3´-Dichlorobenzidine	ND	0.59	2.7		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0064
Project: Kirtland AFB
Collection Date: 9/4/2014 8:50:00 AM
Lab ID: 1409219-002
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Dimethyl phthalate	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4-Dichlorophenol	ND	0.66	4.3		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4-Dimethylphenol	ND	0.64	3.2		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.44	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4-Dinitrophenol	ND	0.75	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4-Dinitrotoluene	ND	0.79	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,6-Dinitrotoluene	ND	0.63	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Fluoranthene	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Fluorene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Hexachlorobenzene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Hexachlorobutadiene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Hexachlorocyclopentadiene	ND	0.69	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Hexachloroethane	ND	0.75	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Isophorone	ND	0.70	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Methylnaphthalene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Methylphenol	ND	0.61	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
3+4-Methylphenol	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
N-Nitrosodi-n-propylamine	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
N-Nitrosodimethylamine	ND	0.81	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
N-Nitrosodiphenylamine	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Naphthalene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Nitroaniline	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
3-Nitroaniline	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Nitroaniline	ND	0.51	4.3		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Nitrobenzene	ND	0.60	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2-Nitrophenol	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
4-Nitrophenol	ND	0.66	2.7		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Pentachlorophenol	ND	0.87	4.3		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Phenanthrene	ND	0.39	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Phenol	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Pyrene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Pyridine	ND	0.59	5.4		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
1,2,4-Trichlorobenzene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4,5-Trichlorophenol	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
2,4,6-Trichlorophenol	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 2:09:12 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 2:09:12 PM	15158
Surr: Phenol-d5	0		23.1-117	S	%REC	1	9/8/2014 2:09:12 PM	15158

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0064
Project: Kirtland AFB
Collection Date: 9/4/2014 8:50:00 AM
Lab ID: 1409219-002
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	1	9/8/2014 2:09:12 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 2:09:12 PM	15158
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	1	9/8/2014 2:09:12 PM	15158
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	1	9/8/2014 2:09:12 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Toluene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Ethylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Xylenes, Total	ND	0.000610	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2,4-Trimethylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,3,5-Trimethylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Naphthalene	ND	0.000610	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Acetone	0.00412	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Bromobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Bromodichloromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Bromoform	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Bromomethane	0.000401	0.000305	0.00152	J	mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
2-Butanone	ND	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Carbon tetrachloride	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Chlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Chloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Chloroform	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Chloromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
2-Chlorotoluene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Carbon disulfide	ND	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
4-Chlorotoluene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
cis-1,2-DCE	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
cis-1,3-Dichloropropene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Dibromochloromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Dibromomethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2-Dichlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,3-Dichlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,4-Dichlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Dichlorodifluoromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1-Dichloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0064
Project: Kirtland AFB
Collection Date: 9/4/2014 8:50:00 AM
Lab ID: 1409219-002
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2-Dichloropropane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,3-Dichloropropane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
2,2-Dichloropropane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1-Dichloropropene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Hexachlorobutadiene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Isopropylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
4-Isopropyltoluene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Methylene chloride	ND	0.000610	0.00152		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
n-Butylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
2-Hexanone	ND	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
n-Propylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
sec-Butylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Styrene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
4-Methyl-2-pentanone	ND	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
tert-Butylbenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Tetrachloroethene (PCE)	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
trans-1,2-DCE	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
trans-1,3-Dichloropropene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2,3-Trichlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2,4-Trichlorobenzene	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1,1-Trichloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,1,2-Trichloroethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Trichloroethene (TCE)	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Trichlorofluoromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
1,2,3-Trichloropropane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Vinyl chloride	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Vinyl acetate	ND	0.00305	0.00305		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Bromochloromethane	ND	0.000305	0.000610		mg/Kg-dr	1	9/5/2014 1:03:54 PM	15137
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	9/5/2014 1:03:54 PM	15137
Surr: 4-Bromofluorobenzene	110	0	65.3-135		%REC	1	9/5/2014 1:03:54 PM	15137
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	9/5/2014 1:03:54 PM	15137
Surr: Toluene-d8	101	0	70-130		%REC	1	9/5/2014 1:03:54 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.40	3.0		mg/Kg-dr	1	9/8/2014 12:27:36 PM	R21086
Surr: BFB	110	0	61.2-137		%REC	1	9/8/2014 12:27:36 PM	R21086

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0065
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-003
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	13	6.0	11		mg/Kg-dr	1	9/8/2014 1:57:13 PM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/8/2014 1:57:13 PM	15134
Surr: DNOP	86.4	0	57.9-140		%REC	1	9/8/2014 1:57:13 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.0	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	24	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:23:33 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Acenaphthylene	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Aniline	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Anthracene	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Benz(a)anthracene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Benzo(a)pyrene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Benzo(b)fluoranthene	ND	0.73	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Benzo(g,h,i)perylene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Benzo(k)fluoranthene	ND	0.81	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Bis(2-chloroethoxy)methane	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Bis(2-chloroethyl)ether	ND	0.85	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.39	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.71	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Bromophenyl phenyl ether	ND	0.53	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Butyl benzyl phthalate	ND	0.45	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Carbazole	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Chloro-3-methylphenol	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Chloroaniline	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Chloronaphthalene	ND	0.61	2.6		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Chlorophenol	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Chlorophenyl phenyl ether	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Chrysene	0.54	0.54	2.1	J	mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Di-n-butyl phthalate	ND	0.48	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Di-n-octyl phthalate	ND	2.7	4.2		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Dibenz(a,h)anthracene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Dibenzofuran	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
1,2-Dichlorobenzene	ND	0.41	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
1,3-Dichlorobenzene	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
1,4-Dichlorobenzene	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
3,3´-Dichlorobenzidine	ND	0.59	2.6		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158

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Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0065
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-003
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Dimethyl phthalate	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4-Dichlorophenol	ND	0.65	4.2		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4-Dimethylphenol	ND	0.63	3.2		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.43	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4-Dinitrophenol	ND	0.75	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4-Dinitrotoluene	ND	0.78	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,6-Dinitrotoluene	ND	0.63	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Fluoranthene	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Fluorene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Hexachlorobenzene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Hexachlorobutadiene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Hexachlorocyclopentadiene	ND	0.69	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Hexachloroethane	ND	0.74	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.70	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Isophorone	ND	0.70	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Methylnaphthalene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Methylphenol	ND	0.61	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
3+4-Methylphenol	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
N-Nitrosodi-n-propylamine	ND	0.70	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
N-Nitrosodimethylamine	ND	0.80	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
N-Nitrosodiphenylamine	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Naphthalene	ND	0.50	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Nitroaniline	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
3-Nitroaniline	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Nitroaniline	ND	0.51	4.2		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Nitrobenzene	ND	0.59	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2-Nitrophenol	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
4-Nitrophenol	ND	0.65	2.6		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Pentachlorophenol	ND	0.86	4.2		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Phenanthrene	ND	0.38	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Phenol	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Pyrene	ND	0.57	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Pyridine	ND	0.59	5.3		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
1,2,4-Trichlorobenzene	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4,5-Trichlorophenol	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
2,4,6-Trichlorophenol	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 2:38:24 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 2:38:24 PM	15158
Surr: Phenol-d5	0		23.1-117	S	%REC	1	9/8/2014 2:38:24 PM	15158

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0065
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-003
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	1	9/8/2014 2:38:24 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 2:38:24 PM	15158
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	1	9/8/2014 2:38:24 PM	15158
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	1	9/8/2014 2:38:24 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Toluene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Ethylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Xylenes, Total	ND	0.000725	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2,4-Trimethylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,3,5-Trimethylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Naphthalene	ND	0.000725	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Acetone	0.00500	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Bromobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Bromodichloromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Bromoform	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Bromomethane	0.000492	0.000362	0.00181	J	mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
2-Butanone	ND	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Carbon tetrachloride	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Chlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Chloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Chloroform	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Chloromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
2-Chlorotoluene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Carbon disulfide	ND	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
4-Chlorotoluene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
cis-1,2-DCE	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
cis-1,3-Dichloropropene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Dibromochloromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Dibromomethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2-Dichlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,3-Dichlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,4-Dichlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Dichlorodifluoromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1-Dichloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-003
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2-Dichloropropane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,3-Dichloropropane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
2,2-Dichloropropane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1-Dichloropropene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Hexachlorobutadiene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Isopropylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
4-Isopropyltoluene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Methylene chloride	ND	0.000725	0.00181		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
n-Butylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
2-Hexanone	ND	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
n-Propylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
sec-Butylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Styrene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
4-Methyl-2-pentanone	ND	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
tert-Butylbenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Tetrachloroethene (PCE)	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
trans-1,2-DCE	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
trans-1,3-Dichloropropene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2,3-Trichlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2,4-Trichlorobenzene	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1,1-Trichloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,1,2-Trichloroethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Trichloroethene (TCE)	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Trichlorofluoromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
1,2,3-Trichloropropane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Vinyl chloride	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Vinyl acetate	ND	0.00362	0.00362		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Bromochloromethane	ND	0.000362	0.000725		mg/Kg-dr	1	9/5/2014 1:32:37 PM	15137
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	9/5/2014 1:32:37 PM	15137
Surr: 4-Bromofluorobenzene	102	0	65.3-135		%REC	1	9/5/2014 1:32:37 PM	15137
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	9/5/2014 1:32:37 PM	15137
Surr: Toluene-d8	99.5	0	70-130		%REC	1	9/5/2014 1:32:37 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	1.2	0.47	3.6	J	mg/Kg-dr	1	9/5/2014 3:07:43 PM	R21061
Surr: BFB	109	0	61.2-137		%REC	1	9/5/2014 3:07:43 PM	R21061

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0066
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-004
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	6.3	6.0	11	J	mg/Kg-dr	1	9/8/2014 2:19:17 PM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/8/2014 2:19:17 PM	15134
Surr: DNOP	70.5	0	57.9-140		%REC	1	9/8/2014 2:19:17 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.9	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	20	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:24:50 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Acenaphthylene	ND	0.10	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Aniline	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Anthracene	ND	0.091	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Benz(a)anthracene	ND	0.11	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Benzo(a)pyrene	ND	0.13	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Benzo(b)fluoranthene	0.18	0.14	0.42	J	mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Benzo(g,h,i)perylene	ND	0.13	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Benzo(k)fluoranthene	ND	0.16	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Bis(2-chloroethoxy)methane	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Bis(2-chloroethyl)ether	ND	0.17	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.078	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.14	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Bromophenyl phenyl ether	ND	0.11	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Butyl benzyl phthalate	ND	0.089	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Carbazole	ND	0.094	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Chloronaphthalene	ND	0.12	0.53		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Chlorophenol	ND	0.13	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Chlorophenyl phenyl ether	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Chrysene	0.15	0.11	0.42	J	mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Di-n-butyl phthalate	ND	0.095	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Di-n-octyl phthalate	ND	0.53	0.84		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Dibenz(a,h)anthracene	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Dibenzofuran	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
1,2-Dichlorobenzene	ND	0.082	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
1,3-Dichlorobenzene	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
1,4-Dichlorobenzene	ND	0.13	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
3,3´-Dichlorobenzidine	ND	0.12	0.53		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0066
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-004
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.094	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Dimethyl phthalate	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4-Dichlorophenol	ND	0.13	0.84		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4-Dimethylphenol	ND	0.13	0.63		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.086	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4-Dinitrotoluene	ND	0.15	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,6-Dinitrotoluene	ND	0.12	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Fluoranthene	ND	0.094	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Fluorene	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Hexachlorobenzene	ND	0.11	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Hexachlorobutadiene	ND	0.10	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Hexachlorocyclopentadiene	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Hexachloroethane	ND	0.15	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Methylnaphthalene	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
3+4-Methylphenol	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
N-Nitrosodi-n-propylamine	ND	0.14	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
N-Nitrosodimethylamine	ND	0.16	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
N-Nitrosodiphenylamine	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Naphthalene	ND	0.10	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Nitroaniline	ND	0.10	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
3-Nitroaniline	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Nitroaniline	ND	0.10	0.84		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2-Nitrophenol	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
4-Nitrophenol	ND	0.13	0.53		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Pentachlorophenol	ND	0.17	0.84		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Phenanthrene	ND	0.076	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Phenol	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Pyrene	ND	0.11	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
1,2,4-Trichlorobenzene	ND	0.12	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4,5-Trichlorophenol	ND	0.093	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
2,4,6-Trichlorophenol	ND	0.11	0.42		mg/Kg-dr	1	9/9/2014 1:44:41 PM	15158
Surr: 2-Fluorophenol	77.4		21-111		%REC	1	9/9/2014 1:44:41 PM	15158
Surr: Phenol-d5	69.1		23.1-117		%REC	1	9/9/2014 1:44:41 PM	15158

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0066
Project: Kirtland AFB
Collection Date: 9/4/2014 9:00:00 AM
Lab ID: 1409219-004
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	72.5		22.7-88.9		%REC	1	9/9/2014 1:44:41 PM	15158
Surr: Nitrobenzene-d5	82.2		24.5-126		%REC	1	9/9/2014 1:44:41 PM	15158
Surr: 2-Fluorobiphenyl	88.4		21.2-129		%REC	1	9/9/2014 1:44:41 PM	15158
Surr: 4-Terphenyl-d14	76.4		39.4-107		%REC	1	9/9/2014 1:44:41 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Toluene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Ethylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Xylenes, Total	ND	0.000772	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2,4-Trimethylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,3,5-Trimethylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Naphthalene	ND	0.000772	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Acetone	0.00736	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Bromobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Bromodichloromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Bromoform	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Bromomethane	0.000536	0.000386	0.00193	J	mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
2-Butanone	ND	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Carbon tetrachloride	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Chlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Chloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Chloroform	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Chloromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
2-Chlorotoluene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Carbon disulfide	ND	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
4-Chlorotoluene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
cis-1,2-DCE	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
cis-1,3-Dichloropropene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Dibromochloromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Dibromomethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2-Dichlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,3-Dichlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,4-Dichlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Dichlorodifluoromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1-Dichloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137

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Qualifiers:

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Lab ID: 1409219-004
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2-Dichloropropane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,3-Dichloropropane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
2,2-Dichloropropane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1-Dichloropropene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Hexachlorobutadiene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Isopropylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
4-Isopropyltoluene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Methylene chloride	ND	0.000772	0.00193		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
n-Butylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
2-Hexanone	ND	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
n-Propylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
sec-Butylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Styrene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
4-Methyl-2-pentanone	ND	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
tert-Butylbenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Tetrachloroethene (PCE)	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
trans-1,2-DCE	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
trans-1,3-Dichloropropene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2,3-Trichlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2,4-Trichlorobenzene	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1,1-Trichloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,1,2-Trichloroethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Trichloroethene (TCE)	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Trichlorofluoromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
1,2,3-Trichloropropane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Vinyl chloride	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Vinyl acetate	ND	0.00386	0.00386		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Bromochloromethane	ND	0.000386	0.000772		mg/Kg-dr	1	9/5/2014 2:01:20 PM	15137
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	9/5/2014 2:01:20 PM	15137
Surr: 4-Bromofluorobenzene	105	0	65.3-135		%REC	1	9/5/2014 2:01:20 PM	15137
Surr: Dibromofluoromethane	105	0	70-130		%REC	1	9/5/2014 2:01:20 PM	15137
Surr: Toluene-d8	102	0	70-130		%REC	1	9/5/2014 2:01:20 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	0.90	0.50	3.9	J	mg/Kg-dr	1	9/5/2014 3:35:59 PM	R21061
Surr: BFB	103	0	61.2-137		%REC	1	9/5/2014 3:35:59 PM	R21061

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0067
Project: Kirtland AFB
Collection Date: 9/4/2014 9:30:00 AM
Lab ID: 1409219-005
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.8	10		mg/Kg-dr	1	9/8/2014 3:55:23 PM	15134
Motor Oil Range Organics (MRO)	ND	52	52		mg/Kg-dr	1	9/8/2014 3:55:23 PM	15134
Surr: DNOP	89.8	0	57.9-140		%REC	1	9/8/2014 3:55:23 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.4	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	6.6	0.24	0.54		mg/Kg-dr	2	9/6/2014 1:40:09 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.099	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Acenaphthylene	ND	0.10	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Aniline	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Anthracene	ND	0.089	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Benz(a)anthracene	0.23	0.11	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Benzo(a)pyrene	0.15	0.12	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Benzo(b)fluoranthene	0.23	0.14	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Benzo(g,h,i)perylene	0.15	0.13	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Benzo(k)fluoranthene	ND	0.16	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Bis(2-chloroethoxy)methane	ND	0.14	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Bis(2-chloroethyl)ether	ND	0.17	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.077	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.14	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Bromophenyl phenyl ether	ND	0.10	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Butyl benzyl phthalate	ND	0.088	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Carbazole	ND	0.093	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Chloro-3-methylphenol	ND	0.11	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Chloroaniline	ND	0.11	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Chloronaphthalene	ND	0.12	0.52		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Chlorophenol	ND	0.13	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Chlorophenyl phenyl ether	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Chrysene	0.19	0.11	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Di-n-butyl phthalate	ND	0.093	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Di-n-octyl phthalate	ND	0.52	0.83		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Dibenz(a,h)anthracene	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Dibenzofuran	ND	0.14	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
1,2-Dichlorobenzene	ND	0.081	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
1,3-Dichlorobenzene	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
1,4-Dichlorobenzene	ND	0.13	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
3,3´-Dichlorobenzidine	ND	0.11	0.52		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0067
Project: Kirtland AFB
Collection Date: 9/4/2014 9:30:00 AM
Lab ID: 1409219-005
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.093	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Dimethyl phthalate	ND	0.11	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4-Dichlorophenol	ND	0.13	0.83		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4-Dimethylphenol	ND	0.12	0.62		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.085	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4-Dinitrophenol	ND	0.15	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4-Dinitrotoluene	ND	0.15	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,6-Dinitrotoluene	ND	0.12	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Fluoranthene	0.29	0.093	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Fluorene	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Hexachlorobenzene	ND	0.11	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Hexachlorobutadiene	ND	0.099	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Hexachlorocyclopentadiene	ND	0.13	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Hexachloroethane	ND	0.15	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.14	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Isophorone	ND	0.14	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Methylnaphthalene	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Methylphenol	ND	0.12	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
3+4-Methylphenol	ND	0.14	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
N-Nitrosodi-n-propylamine	ND	0.14	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
N-Nitrosodimethylamine	ND	0.16	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
N-Nitrosodiphenylamine	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Naphthalene	ND	0.098	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Nitroaniline	ND	0.10	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
3-Nitroaniline	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Nitroaniline	ND	0.099	0.83		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Nitrobenzene	ND	0.12	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2-Nitrophenol	ND	0.11	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
4-Nitrophenol	ND	0.13	0.52		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Pentachlorophenol	ND	0.17	0.83		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Phenanthrene	0.23	0.075	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Phenol	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Pyrene	0.28	0.11	0.41	J	mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Pyridine	ND	0.11	1.0		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
1,2,4-Trichlorobenzene	ND	0.12	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4,5-Trichlorophenol	ND	0.092	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
2,4,6-Trichlorophenol	ND	0.11	0.41		mg/Kg-dr	1	9/8/2014 3:07:51 PM	15158
Surr: 2-Fluorophenol	85.9		21-111		%REC	1	9/8/2014 3:07:51 PM	15158
Surr: Phenol-d5	78.0		23.1-117		%REC	1	9/8/2014 3:07:51 PM	15158

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0067
Project: Kirtland AFB
Collection Date: 9/4/2014 9:30:00 AM
Lab ID: 1409219-005
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	56.7		22.7-88.9		%REC	1	9/8/2014 3:07:51 PM	15158
Surr: Nitrobenzene-d5	89.3		24.5-126		%REC	1	9/8/2014 3:07:51 PM	15158
Surr: 2-Fluorobiphenyl	82.5		21.2-129		%REC	1	9/8/2014 3:07:51 PM	15158
Surr: 4-Terphenyl-d14	79.4		39.4-107		%REC	1	9/8/2014 3:07:51 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Toluene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Ethylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Xylenes, Total	ND	0.000763	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2,4-Trimethylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,3,5-Trimethylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Naphthalene	ND	0.000763	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Acetone	0.00407	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Bromobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Bromodichloromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Bromoform	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Bromomethane	0.000505	0.000382	0.00191	J	mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
2-Butanone	ND	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Carbon tetrachloride	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Chlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Chloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Chloroform	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Chloromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
2-Chlorotoluene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Carbon disulfide	ND	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
4-Chlorotoluene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
cis-1,2-DCE	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
cis-1,3-Dichloropropene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Dibromochloromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Dibromomethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2-Dichlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,3-Dichlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,4-Dichlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Dichlorodifluoromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1-Dichloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2-Dichloropropane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,3-Dichloropropane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
2,2-Dichloropropane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1-Dichloropropene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Hexachlorobutadiene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Isopropylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
4-Isopropyltoluene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Methylene chloride	ND	0.000763	0.00191		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
n-Butylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
2-Hexanone	ND	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
n-Propylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
sec-Butylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Styrene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
4-Methyl-2-pentanone	ND	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
tert-Butylbenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Tetrachloroethene (PCE)	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
trans-1,2-DCE	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
trans-1,3-Dichloropropene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2,3-Trichlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2,4-Trichlorobenzene	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1,1-Trichloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,1,2-Trichloroethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Trichloroethene (TCE)	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Trichlorofluoromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
1,2,3-Trichloropropane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Vinyl chloride	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Vinyl acetate	ND	0.00382	0.00382		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Bromochloromethane	ND	0.000382	0.000763		mg/Kg-dr	1	9/5/2014 2:30:03 PM	15137
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%REC	1	9/5/2014 2:30:03 PM	15137
Surr: 4-Bromofluorobenzene	104	0	65.3-135		%REC	1	9/5/2014 2:30:03 PM	15137
Surr: Dibromofluoromethane	98.3	0	70-130		%REC	1	9/5/2014 2:30:03 PM	15137
Surr: Toluene-d8	98.3	0	70-130		%REC	1	9/5/2014 2:30:03 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.50	3.8		mg/Kg-dr	1	9/5/2014 4:04:09 PM	R21061
Surr: BFB	107	0	61.2-137		%REC	1	9/5/2014 4:04:09 PM	R21061

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0068
Project: Kirtland AFB
Collection Date: 9/4/2014 11:12:00 AM
Lab ID: 1409219-006
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/8/2014 4:17:19 PM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/8/2014 4:17:19 PM	15134
Surr: DNOP	80.4	0	57.9-140		%REC	1	9/8/2014 4:17:19 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.9	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.2	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:27:24 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Acenaphthylene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Aniline	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Anthracene	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Benz(a)anthracene	ND	0.57	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Benzo(a)pyrene	ND	0.64	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Benzo(b)fluoranthene	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Benzo(g,h,i)perylene	0.79	0.64	2.1	J	mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Benzo(k)fluoranthene	ND	0.80	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Bis(2-chloroethoxy)methane	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Bis(2-chloroethyl)ether	ND	0.85	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.39	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.71	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Bromophenyl phenyl ether	ND	0.53	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Butyl benzyl phthalate	ND	0.45	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Carbazole	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Chloro-3-methylphenol	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Chloroaniline	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Chloronaphthalene	ND	0.60	2.6		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Chlorophenol	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Chlorophenyl phenyl ether	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Chrysene	ND	0.54	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Di-n-butyl phthalate	ND	0.47	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Di-n-octyl phthalate	ND	2.6	4.2		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Dibenz(a,h)anthracene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Dibenzofuran	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
1,2-Dichlorobenzene	ND	0.41	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
1,3-Dichlorobenzene	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
1,4-Dichlorobenzene	ND	0.65	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
3,3´-Dichlorobenzidine	ND	0.58	2.6		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

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Project: Kirtland AFB
Collection Date: 9/4/2014 11:12:00 AM
Lab ID: 1409219-006
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Dimethyl phthalate	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4-Dichlorophenol	ND	0.65	4.2		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4-Dimethylphenol	ND	0.63	3.2		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.43	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4-Dinitrophenol	ND	0.74	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4-Dinitrotoluene	ND	0.78	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,6-Dinitrotoluene	ND	0.63	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Fluoranthene	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Fluorene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Hexachlorobenzene	ND	0.57	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Hexachlorobutadiene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Hexachlorocyclopentadiene	ND	0.68	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Hexachloroethane	ND	0.74	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.70	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Isophorone	ND	0.69	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Methylnaphthalene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Methylphenol	ND	0.60	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
3+4-Methylphenol	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
N-Nitrosodi-n-propylamine	ND	0.70	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
N-Nitrosodimethylamine	ND	0.80	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
N-Nitrosodiphenylamine	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Naphthalene	ND	0.50	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Nitroaniline	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
3-Nitroaniline	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Nitroaniline	ND	0.51	4.2		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Nitrobenzene	ND	0.59	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2-Nitrophenol	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
4-Nitrophenol	ND	0.65	2.6		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Pentachlorophenol	ND	0.85	4.2		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Phenanthrene	ND	0.38	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Phenol	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Pyrene	0.81	0.57	2.1	J	mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Pyridine	ND	0.58	5.3		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
1,2,4-Trichlorobenzene	ND	0.61	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4,5-Trichlorophenol	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
2,4,6-Trichlorophenol	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 3:37:24 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 3:37:24 PM	15158
Surr: Phenol-d5	0		23.1-117	S	%REC	1	9/8/2014 3:37:24 PM	15158

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0068
Project: Kirtland AFB
Collection Date: 9/4/2014 11:12:00 AM
Lab ID: 1409219-006
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	1	9/8/2014 3:37:24 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 3:37:24 PM	15158
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	1	9/8/2014 3:37:24 PM	15158
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	1	9/8/2014 3:37:24 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Toluene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Ethylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Xylenes, Total	ND	0.000738	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2,4-Trimethylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,3,5-Trimethylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Naphthalene	ND	0.000738	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Acetone	0.00382	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Bromobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Bromodichloromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Bromoform	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Bromomethane	0.000495	0.000369	0.00184	J	mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
2-Butanone	ND	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Carbon tetrachloride	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Chlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Chloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Chloroform	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Chloromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
2-Chlorotoluene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Carbon disulfide	ND	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
4-Chlorotoluene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
cis-1,2-DCE	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
cis-1,3-Dichloropropene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Dibromochloromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Dibromomethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2-Dichlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,3-Dichlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,4-Dichlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Dichlorodifluoromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1-Dichloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137

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Qualifiers:

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2-Dichloropropane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,3-Dichloropropane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
2,2-Dichloropropane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1-Dichloropropene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Hexachlorobutadiene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Isopropylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
4-Isopropyltoluene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Methylene chloride	ND	0.000738	0.00184		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
n-Butylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
2-Hexanone	ND	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
n-Propylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
sec-Butylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Styrene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
4-Methyl-2-pentanone	ND	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
tert-Butylbenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Tetrachloroethene (PCE)	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
trans-1,2-DCE	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
trans-1,3-Dichloropropene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2,3-Trichlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2,4-Trichlorobenzene	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1,1-Trichloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,1,2-Trichloroethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Trichloroethene (TCE)	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Trichlorofluoromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
1,2,3-Trichloropropane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Vinyl chloride	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Vinyl acetate	ND	0.00369	0.00369		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Bromochloromethane	ND	0.000369	0.000738		mg/Kg-dr	1	9/5/2014 2:58:48 PM	15137
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	9/5/2014 2:58:48 PM	15137
Surr: 4-Bromofluorobenzene	99.2	0	65.3-135		%REC	1	9/5/2014 2:58:48 PM	15137
Surr: Dibromofluoromethane	106	0	70-130		%REC	1	9/5/2014 2:58:48 PM	15137
Surr: Toluene-d8	99.0	0	70-130		%REC	1	9/5/2014 2:58:48 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.48	3.7		mg/Kg-dr	1	9/5/2014 4:32:17 PM	R21061
Surr: BFB	103	0	61.2-137		%REC	1	9/5/2014 4:32:17 PM	R21061

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Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0069
Project: Kirtland AFB
Collection Date: 9/4/2014 2:31:00 PM
Lab ID: 1409219-007
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	240	5.9	11		mg/Kg-dr	1	9/8/2014 3:03:13 PM	15134
Motor Oil Range Organics (MRO)	230	54	54		mg/Kg-dr	1	9/8/2014 3:03:13 PM	15134
Surr: DNOP	83.9	0	57.9-140		%REC	1	9/8/2014 3:03:13 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	6.5	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	46	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:32:26 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Acenaphthylene	ND	0.52	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Aniline	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Anthracene	ND	0.46	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Benz(a)anthracene	1.9	0.58	2.1	J	mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Benzo(a)pyrene	8.6	0.64	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Benzo(b)fluoranthene	14	0.73	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Benzo(g,h,i)perylene	3.8	0.65	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Benzo(k)fluoranthene	4.9	0.81	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Bis(2-chloroethoxy)methane	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Bis(2-chloroethyl)ether	ND	0.86	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.40	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.72	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Bromophenyl phenyl ether	ND	0.54	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Butyl benzyl phthalate	ND	0.45	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Carbazole	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Chloro-3-methylphenol	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Chloroaniline	ND	0.56	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Chloronaphthalene	ND	0.61	2.7		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Chlorophenol	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Chlorophenyl phenyl ether	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Chrysene	3.6	0.54	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Di-n-butyl phthalate	ND	0.48	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Di-n-octyl phthalate	ND	2.7	4.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Dibenz(a,h)anthracene	1.7	0.63	2.1	J	mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Dibenzofuran	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
1,2-Dichlorobenzene	ND	0.42	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
1,3-Dichlorobenzene	ND	0.60	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
1,4-Dichlorobenzene	ND	0.66	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
3,3´-Dichlorobenzidine	ND	0.59	2.7		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158

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Qualifiers:

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Lab ID: 1409219-007
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.48	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Dimethyl phthalate	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4-Dichlorophenol	ND	0.66	4.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4-Dimethylphenol	ND	0.64	3.2		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.44	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4-Dinitrophenol	ND	0.75	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4-Dinitrotoluene	ND	0.79	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,6-Dinitrotoluene	ND	0.63	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Fluoranthene	0.80	0.48	2.1	J	mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Fluorene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Hexachlorobenzene	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Hexachlorobutadiene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Hexachlorocyclopentadiene	ND	0.69	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Hexachloroethane	ND	0.75	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Indeno(1,2,3-cd)pyrene	4.8	0.71	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Isophorone	ND	0.70	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Methylnaphthalene	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Methylphenol	ND	0.61	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
3+4-Methylphenol	ND	0.72	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
N-Nitrosodi-n-propylamine	ND	0.71	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
N-Nitrosodimethylamine	ND	0.81	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
N-Nitrosodiphenylamine	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Naphthalene	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Nitroaniline	ND	0.51	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
3-Nitroaniline	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Nitroaniline	ND	0.51	4.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Nitrobenzene	ND	0.60	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2-Nitrophenol	ND	0.59	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
4-Nitrophenol	ND	0.66	2.7		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Pentachlorophenol	ND	0.87	4.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Phenanthrene	ND	0.39	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Phenol	ND	0.63	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Pyrene	24	0.58	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Pyridine	ND	0.59	5.3		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
1,2,4-Trichlorobenzene	ND	0.62	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4,5-Trichlorophenol	ND	0.47	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
2,4,6-Trichlorophenol	ND	0.58	2.1		mg/Kg-dr	1	9/8/2014 4:06:29 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 4:06:29 PM	15158
Surr: Phenol-d5	0		23.1-117	S	%REC	1	9/8/2014 4:06:29 PM	15158

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Project: Kirtland AFB
Collection Date: 9/4/2014 2:31:00 PM
Lab ID: 1409219-007
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	0		22.7-88.9	S	%REC	1	9/8/2014 4:06:29 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 4:06:29 PM	15158
Surr: 2-Fluorobiphenyl	0		21.2-129	S	%REC	1	9/8/2014 4:06:29 PM	15158
Surr: 4-Terphenyl-d14	0		39.4-107	S	%REC	1	9/8/2014 4:06:29 PM	15158
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Toluene	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Ethylbenzene	ND	0.0039	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Methyl tert-butyl ether (MTBE)	ND	0.014	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2,4-Trimethylbenzene	ND	0.0044	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,3,5-Trimethylbenzene	ND	0.0039	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2-Dichloroethane (EDC)	ND	0.0060	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2-Dibromoethane (EDB)	ND	0.0042	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Naphthalene	ND	0.0030	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Acetone	ND	0.036	0.55		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Bromobenzene	ND	0.0057	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Bromodichloromethane	ND	0.0047	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Bromoform	ND	0.0034	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Bromomethane	ND	0.0052	0.11		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
2-Butanone	ND	0.017	0.36		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Carbon disulfide	ND	0.0096	0.36		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Carbon tetrachloride	ND	0.0051	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Chlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Chloroethane	ND	0.0060	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Chloroform	ND	0.013	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Chloromethane	ND	0.0033	0.11		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
2-Chlorotoluene	ND	0.0032	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
4-Chlorotoluene	ND	0.011	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
cis-1,2-DCE	ND	0.0033	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
cis-1,3-Dichloropropene	ND	0.0045	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2-Dibromo-3-chloropropane	ND	0.0050	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Dibromochloromethane	ND	0.0036	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Dibromomethane	ND	0.0042	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,3-Dichlorobenzene	ND	0.0044	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,4-Dichlorobenzene	ND	0.0043	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Dichlorodifluoromethane	ND	0.0088	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1-Dichloroethane	ND	0.0025	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1-Dichloroethene	ND	0.0029	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.0032	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,3-Dichloropropane	ND	0.0068	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
2,2-Dichloropropane	ND	0.0039	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1-Dichloropropene	ND	0.0056	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Hexachlorobutadiene	ND	0.0054	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
2-Hexanone	ND	0.017	0.36		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Isopropylbenzene	ND	0.0029	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
4-Isopropyltoluene	ND	0.0033	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
4-Methyl-2-pentanone	ND	0.014	0.36		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Methylene chloride	0.033	0.0034	0.11	J	mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
n-Butylbenzene	ND	0.0032	0.11		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
n-Propylbenzene	ND	0.0037	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
sec-Butylbenzene	ND	0.0035	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Styrene	ND	0.0028	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
tert-Butylbenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1,1,2-Tetrachloroethane	ND	0.0044	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1,2,2-Tetrachloroethane	ND	0.0060	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Tetrachloroethene (PCE)	ND	0.0045	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
trans-1,2-DCE	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
trans-1,3-Dichloropropene	ND	0.0050	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2,3-Trichlorobenzene	ND	0.0041	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2,4-Trichlorobenzene	ND	0.0040	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1,1-Trichloroethane	ND	0.0037	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,1,2-Trichloroethane	ND	0.0044	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Trichloroethene (TCE)	ND	0.0050	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Trichlorofluoromethane	ND	0.0038	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
1,2,3-Trichloropropane	ND	0.0055	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Vinyl chloride	ND	0.0030	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Xylenes, Total	ND	0.011	0.073		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Bromochloromethane	ND	0.017	0.036		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Vinyl acetate	ND	0.36	0.36		mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Surr: Dibromofluoromethane	85.2	0	70-130		%REC	1	9/5/2014 12:46:46 PM	R21061
Surr: 1,2-Dichloroethane-d4	84.3	0	70-130		%REC	1	9/5/2014 12:46:46 PM	R21061
Surr: Toluene-d8	97.3	0	70-130		%REC	1	9/5/2014 12:46:46 PM	R21061
Surr: 4-Bromofluorobenzene	92.5	0	70-130		%REC	1	9/5/2014 12:46:46 PM	R21061
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	1.9	0.47	3.6	J	mg/Kg-dr	1	9/5/2014 12:46:46 PM	R21061
Surr: BFB	109	0	61.2-137		%REC	1	9/5/2014 12:46:46 PM	R21061

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0070
Project: Kirtland AFB
Collection Date: 9/4/2014 2:45:00 PM
Lab ID: 1409219-008
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	27	6.0	11		mg/Kg-dr	1	9/7/2014 8:31:38 AM	15134
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/7/2014 8:31:38 AM	15134
Surr: DNOP	80.0	0	57.9-140		%REC	1	9/7/2014 8:31:38 AM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.8	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	2.4	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:33:45 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.051	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Acenaphthylene	ND	0.052	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Aniline	ND	0.063	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Anthracene	ND	0.046	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Benz(a)anthracene	ND	0.057	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Benzo(a)pyrene	ND	0.064	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Benzo(b)fluoranthene	ND	0.073	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Benzo(g,h,i)perylene	ND	0.064	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Bis(2-chloroethyl)ether	ND	0.085	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.071	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Chloro-3-methylphenol	ND	0.056	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Chloroaniline	ND	0.056	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Chloronaphthalene	ND	0.061	0.26		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Chlorophenol	ND	0.066	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Chlorophenyl phenyl ether	ND	0.060	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Chrysene	ND	0.054	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Di-n-butyl phthalate	0.060	0.048	0.53	J	mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Di-n-octyl phthalate	ND	0.27	0.42		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Dibenz(a,h)anthracene	ND	0.063	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Dibenzofuran	ND	0.071	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
1,3-Dichlorobenzene	ND	0.060	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
1,4-Dichlorobenzene	ND	0.066	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
3,3´-Dichlorobenzidine	ND	0.059	0.26		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0070
Project: Kirtland AFB
Collection Date: 9/4/2014 2:45:00 PM
Lab ID: 1409219-008
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Dimethyl phthalate	ND	0.059	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4-Dimethylphenol	ND	0.063	0.32		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.043	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4-Dinitrophenol	ND	0.075	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4-Dinitrotoluene	ND	0.078	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,6-Dinitrotoluene	ND	0.063	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Fluoranthene	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Fluorene	ND	0.062	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Hexachlorobenzene	ND	0.058	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Hexachlorobutadiene	ND	0.051	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.070	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Isophorone	ND	0.069	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Methylnaphthalene	ND	0.063	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Methylphenol	ND	0.061	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
N-Nitrosodimethylamine	ND	0.080	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
N-Nitrosodiphenylamine	ND	0.062	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Naphthalene	ND	0.050	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Nitroaniline	ND	0.051	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
3-Nitroaniline	ND	0.062	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Nitroaniline	ND	0.051	0.42		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Nitrobenzene	ND	0.059	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
4-Nitrophenol	ND	0.065	0.26		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Pentachlorophenol	ND	0.086	0.42		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Phenanthrene	ND	0.038	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Phenol	ND	0.062	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Pyrene	ND	0.057	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Pyridine	ND	0.059	0.53		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4,5-Trichlorophenol	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
2,4,6-Trichlorophenol	ND	0.058	0.21		mg/Kg-dr	1	9/8/2014 4:35:48 PM	15158
Surr: 2-Fluorophenol	61.2		21-111		%REC	1	9/8/2014 4:35:48 PM	15158
Surr: Phenol-d5	62.8		23.1-117		%REC	1	9/8/2014 4:35:48 PM	15158

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0070
Project: Kirtland AFB
Collection Date: 9/4/2014 2:45:00 PM
Lab ID: 1409219-008
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	66.4		22.7-88.9		%REC	1	9/8/2014 4:35:48 PM	15158
Surr: Nitrobenzene-d5	67.7		24.5-126		%REC	1	9/8/2014 4:35:48 PM	15158
Surr: 2-Fluorobiphenyl	74.5		21.2-129		%REC	1	9/8/2014 4:35:48 PM	15158
Surr: 4-Terphenyl-d14	70.5		39.4-107		%REC	1	9/8/2014 4:35:48 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Toluene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Ethylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Xylenes, Total	ND	0.000720	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Methyl tert-butyl ether (MTBE)	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2,4-Trimethylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,3,5-Trimethylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2-Dichloroethane (EDC)	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2-Dibromoethane (EDB)	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Naphthalene	ND	0.000720	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Acetone	0.00458	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Bromobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Bromodichloromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Bromoform	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Bromomethane	0.000467	0.000360	0.00180	J	mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
2-Butanone	ND	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Carbon tetrachloride	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Chlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Chloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Chloroform	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Chloromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
2-Chlorotoluene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Carbon disulfide	ND	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
4-Chlorotoluene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
cis-1,2-DCE	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
cis-1,3-Dichloropropene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2-Dibromo-3-chloropropane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Dibromochloromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Dibromomethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2-Dichlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,3-Dichlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,4-Dichlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Dichlorodifluoromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1-Dichloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0070
Project: Kirtland AFB
Collection Date: 9/4/2014 2:45:00 PM
Lab ID: 1409219-008
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2-Dichloropropane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,3-Dichloropropane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
2,2-Dichloropropane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1-Dichloropropene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Hexachlorobutadiene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Isopropylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
4-Isopropyltoluene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Methylene chloride	ND	0.000720	0.00180		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
n-Butylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
2-Hexanone	ND	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
n-Propylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
sec-Butylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Styrene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
4-Methyl-2-pentanone	ND	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
tert-Butylbenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1,1,2-Tetrachloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1,2,2-Tetrachloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Tetrachloroethene (PCE)	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
trans-1,2-DCE	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
trans-1,3-Dichloropropene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2,3-Trichlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2,4-Trichlorobenzene	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1,1-Trichloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,1,2-Trichloroethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Trichloroethene (TCE)	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Trichlorofluoromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
1,2,3-Trichloropropane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Vinyl chloride	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Vinyl acetate	ND	0.00360	0.00360		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Bromochloromethane	ND	0.000360	0.000720		mg/Kg-dr	1	9/5/2014 3:27:34 PM	15137
Surr: 1,2-Dichloroethane-d4	114	0	70-130		%REC	1	9/5/2014 3:27:34 PM	15137
Surr: 4-Bromofluorobenzene	110	0	65.3-135		%REC	1	9/5/2014 3:27:34 PM	15137
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	9/5/2014 3:27:34 PM	15137
Surr: Toluene-d8	100	0	70-130		%REC	1	9/5/2014 3:27:34 PM	15137
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	1.6	0.47	3.6	J	mg/Kg-dr	1	9/5/2014 5:00:31 PM	R21061
Surr: BFB	111	0	61.2-137		%REC	1	9/5/2014 5:00:31 PM	R21061

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Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0071
Project: Kirtland AFB
Collection Date: 9/4/2014 2:54:00 PM
Lab ID: 1409219-009
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	4200	61	110		mg/Kg-dr	10	9/8/2014 4:39:18 PM	15134
Motor Oil Range Organics (MRO)	ND	560	560		mg/Kg-dr	10	9/8/2014 4:39:18 PM	15134
Surr: DNOP	0	0	57.9-140	S	%REC	10	9/8/2014 4:39:18 PM	15134
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	10	1.0	1.0		wt%	1	9/5/2014 9:03:00 AM	R21050
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	35	0.12	0.27		mg/Kg-dr	1	9/6/2014 1:37:34 PM	15138
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Aniline	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Benz(a)anthracene	ND	0.060	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Benzo(b)fluoranthene	ND	0.076	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Benzo(g,h,i)perylene	ND	0.067	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.074	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Chloro-3-methylphenol	ND	0.059	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Chloroaniline	ND	0.059	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Di-n-butyl phthalate	ND	0.050	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0071
Project: Kirtland AFB
Collection Date: 9/4/2014 2:54:00 PM
Lab ID: 1409219-009
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4-Dinitrotoluene	ND	0.082	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,6-Dinitrotoluene	ND	0.066	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Hexachlorocyclopentadiene	ND	0.072	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.073	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Isophorone	ND	0.073	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
N-Nitrosodimethylamine	ND	0.084	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Naphthalene	0.21	0.053	0.22	J	mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
3-Nitroaniline	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Nitrobenzene	ND	0.062	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Pentachlorophenol	ND	0.090	0.44		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Phenol	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
2,4,6-Trichlorophenol	ND	0.061	0.22		mg/Kg-dr	1	9/9/2014 1:15:26 PM	15158
Surr: 2-Fluorophenol	37.3		21-111		%REC	1	9/9/2014 1:15:26 PM	15158
Surr: Phenol-d5	40.4		23.1-117		%REC	1	9/9/2014 1:15:26 PM	15158

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 9/4/2014 2:54:00 PM
Lab ID: 1409219-009
Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	51.8		22.7-88.9		%REC	1	9/9/2014 1:15:26 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/9/2014 1:15:26 PM	15158
Surr: 2-Fluorobiphenyl	43.2		21.2-129		%REC	1	9/9/2014 1:15:26 PM	15158
Surr: 4-Terphenyl-d14	43.6		39.4-107		%REC	1	9/9/2014 1:15:26 PM	15158
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0044	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Toluene	ND	0.0044	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Ethylbenzene	ND	0.0043	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Methyl tert-butyl ether (MTBE)	ND	0.015	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2,4-Trimethylbenzene	0.31	0.049	0.40	J	mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,3,5-Trimethylbenzene	ND	0.043	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,2-Dichloroethane (EDC)	ND	0.0066	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2-Dibromoethane (EDB)	ND	0.0046	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Naphthalene	0.31	0.033	0.81	J	mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Acetone	ND	0.039	0.60		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Bromobenzene	ND	0.063	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Bromodichloromethane	ND	0.0052	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Bromoform	ND	0.038	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Bromomethane	ND	0.0058	0.12		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
2-Butanone	ND	0.018	0.40		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Carbon disulfide	ND	0.011	0.40		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Carbon tetrachloride	ND	0.0056	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Chlorobenzene	ND	0.0044	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Chloroethane	ND	0.0067	0.081		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Chloroform	ND	0.014	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Chloromethane	ND	0.0037	0.12		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
2-Chlorotoluene	ND	0.036	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
4-Chlorotoluene	ND	0.12	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
cis-1,2-DCE	ND	0.0037	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
cis-1,3-Dichloropropene	ND	0.0050	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2-Dibromo-3-chloropropane	ND	0.055	0.81		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Dibromochloromethane	ND	0.0040	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Dibromomethane	ND	0.0046	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,3-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,4-Dichlorobenzene	ND	0.048	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Dichlorodifluoromethane	ND	0.0098	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,1-Dichloroethane	ND	0.0028	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,1-Dichloroethene	ND	0.0032	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061

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Matrix: MEOH (SOIL)
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.0036	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,3-Dichloropropane	ND	0.0076	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
2,2-Dichloropropane	ND	0.0044	0.081		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,1-Dichloropropene	ND	0.0062	0.081		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Hexachlorobutadiene	ND	0.059	0.81		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
2-Hexanone	ND	0.019	0.40		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Isopropylbenzene	ND	0.032	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
4-Isopropyltoluene	ND	0.036	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
4-Methyl-2-pentanone	ND	0.016	0.40		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Methylene chloride	0.040	0.0038	0.12	J	mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
n-Butylbenzene	0.15	0.036	1.2	J	mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
n-Propylbenzene	ND	0.041	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
sec-Butylbenzene	ND	0.039	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Styrene	ND	0.0031	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
tert-Butylbenzene	ND	0.044	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,1,1,2-Tetrachloroethane	ND	0.0048	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,1,2,2-Tetrachloroethane	ND	0.067	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Tetrachloroethene (PCE)	ND	0.0049	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
trans-1,2-DCE	ND	0.0045	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
trans-1,3-Dichloropropene	ND	0.0056	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2,3-Trichlorobenzene	ND	0.045	0.81		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,2,4-Trichlorobenzene	ND	0.045	0.40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
1,1,1-Trichloroethane	ND	0.0041	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,1,2-Trichloroethane	ND	0.0049	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Trichloroethene (TCE)	ND	0.0056	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Trichlorofluoromethane	ND	0.0042	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
1,2,3-Trichloropropane	ND	0.061	0.81		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Vinyl chloride	ND	0.0033	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Xylenes, Total	ND	0.012	0.081		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Bromochloromethane	ND	0.018	0.040		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Vinyl acetate	ND	0.40	0.40		mg/Kg-dr	1	9/5/2014 1:15:00 PM	R21061
Surr: Dibromofluoromethane	83.9	0	70-130		%REC	1	9/5/2014 1:15:00 PM	R21061
Surr: 1,2-Dichloroethane-d4	86.5	0	70-130		%REC	1	9/5/2014 1:15:00 PM	R21061
Surr: Toluene-d8	90.2	0	70-130		%REC	1	9/5/2014 1:15:00 PM	R21061
Surr: 4-Bromofluorobenzene	179	0	70-130	S	%REC	10	9/8/2014 6:05:28 PM	R21086
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	430	5.2	40		mg/Kg-dr	10	9/8/2014 6:05:28 PM	R21086
Surr: BFB	168	0	61.2-137	S	%REC	10	9/8/2014 6:05:28 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409219-010
Matrix: MEOH BLAN
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Toluene	ND	0.0055	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Naphthalene	ND	0.0042	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Acetone	ND	0.049	0.75		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Bromoform	ND	0.0047	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Bromomethane	ND	0.0071	0.15		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
2-Butanone	ND	0.023	0.50		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Chloroethane	ND	0.0083	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Chloroform	ND	0.017	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Chloromethane	ND	0.0046	0.15		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409219-010
Matrix: MEOH BLAN
Received Date: 9/4/2014 5:18:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Methylene chloride	0.053	0.0047	0.15	J	mg/Kg	1	9/5/2014 12:18:34 PM	R21061
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Styrene	ND	0.0039	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Surr: Dibromofluoromethane	90.8	0	70-130		%REC	1	9/5/2014 12:18:34 PM	R21061
Surr: 1,2-Dichloroethane-d4	86.1	0	70-130		%REC	1	9/5/2014 12:18:34 PM	R21061
Surr: Toluene-d8	98.3	0	70-130		%REC	1	9/5/2014 12:18:34 PM	R21061
Surr: 4-Bromofluorobenzene	93.8	0	70-130		%REC	1	9/5/2014 12:18:34 PM	R21061
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	9/5/2014 12:18:34 PM	R21061
Surr: BFB	99.5	0	61.2-137		%REC	1	9/5/2014 12:18:34 PM	R21061

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15134**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15134**	RunNo: **21011**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **611900** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		81.6	57.9	140			

Sample ID **LCS-15134**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15134**	RunNo: **21011**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **611901** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.3	68.6	130			
Surr: DNOP	3.9		5.000		79.0	57.9	140			

Sample ID **1409219-008AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0070**	Batch ID: **15134**	RunNo: **21040**
Prep Date: **9/5/2014**	Analysis Date: **9/7/2014**	SeqNo: **612698** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	99	11	54.71	26.90	133	40.1	152			
Surr: DNOP	4.0		5.471		73.6	57.9	140			

Sample ID **1409219-008AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **FFOR-CF-0070**	Batch ID: **15134**	RunNo: **21040**
Prep Date: **9/5/2014**	Analysis Date: **9/7/2014**	SeqNo: **612701** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	77	11	54.05	26.90	91.9	40.1	152	26.0	32.1	
Surr: DNOP	4.3		5.405		79.7	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612991** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612991** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.066	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.47		0.5000		93.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		93.0	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.0	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	70	130			
Toluene	1.1	0.050	1.000	0	107	70	130			
Chlorobenzene	1.0	0.050	1.000	0	100	70	130			
1,1-Dichloroethene	1.2	0.050	1.000	0	118	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	120	58.8	139			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612993** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.49		0.5000		98.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.2	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.3	70	130			

Sample ID **MB-15122 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613032** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	0.12	0.50								J
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15122 MK**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613032** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.039	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.42		0.5000		83.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.4	70	130			
Surr: Toluene-d8	0.49		0.5000		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **LCS-15122 MK**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date: **9/4/2014**	Analysis Date: **9/5/2014**	SeqNo: **613033** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.5	70	130			
Toluene	0.95	0.050	1.000	0	95.5	70	130			
Chlorobenzene	0.90	0.050	1.000	0	89.9	70	130			
1,1-Dichloroethene	0.86	0.050	1.000	0	86.0	60.5	160			
Trichloroethene (TCE)	0.91	0.050	1.000	0	90.8	58.8	139			
Surr: Dibromofluoromethane	0.43		0.5000		86.0	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.8	70	130			
Surr: Toluene-d8	0.47		0.5000		93.4	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.7	70	130			

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613721** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
Naphthalene	ND	0.10								
Bromobenzene	ND	0.050								
Bromoform	ND	0.050								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Hexachlorobutadiene	ND	0.10								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		95.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613721** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.7	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613722** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.48		0.5000		95.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.2	70	130			
Surr: Toluene-d8	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15137**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612768** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00118	0.00200								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15137**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612768** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0204		0.02000		102	70	130			
Surr: 4-Bromofluorobenzene	0.0206		0.02000		103	65.3	135			
Surr: Dibromofluoromethane	0.0194		0.02000		97.0	70	130			
Surr: Toluene-d8	0.0200		0.02000		100	70	130			

Sample ID **lcs-15137**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612770** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00478	0.00200	0.005000	0	95.7	70	130			
Toluene	0.00522	0.00200	0.005000	0	104	70	130			
Chlorobenzene	0.00494	0.00200	0.005000	0	98.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15137**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612770** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00443	0.00200	0.005000	0	88.5	70	130			
Trichloroethene (TCE)	0.00484	0.00200	0.005000	0	96.7	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0207		0.02000		104	70	130			
Surr: 4-Bromofluorobenzene	0.0217		0.02000		108	65.3	135			
Surr: Dibromofluoromethane	0.0200		0.02000		99.8	70	130			
Surr: Toluene-d8	0.0199		0.02000		99.6	70	130			

Sample ID **1409219-008ams**	SampType: **MS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0070**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612778** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00157	0.000765	0.001912	0	82.1	70	130			
Toluene	0.00154	0.000765	0.001912	0	80.8	70	130			
Chlorobenzene	0.00139	0.000765	0.001912	0	72.7	70	130			
1,1-Dichloroethene	0.00166	0.000765	0.001912	0	87.0	70	130			
Trichloroethene (TCE)	0.00160	0.000765	0.001912	0	83.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.00874		0.007647		114	70	130			
Surr: 4-Bromofluorobenzene	0.00698		0.007647		91.3	65.3	135			
Surr: Dibromofluoromethane	0.00800		0.007647		105	70	130			
Surr: Toluene-d8	0.00771		0.007647		101	70	130			

Sample ID **1409219-008amsd**	SampType: **MSD**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **FFOR-CF-0070**	Batch ID: **15137**	RunNo: **21057**
Prep Date: **9/5/2014**	Analysis Date: **9/5/2014**	SeqNo: **612779** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00146	0.000749	0.001873	0	78.1	70	130	6.97	20	
Toluene	0.00141	0.000749	0.001873	0	75.4	70	130	8.94	20	
Chlorobenzene	0.00127	0.000749	0.001873	0	67.8	70	130	8.99	20	S
1,1-Dichloroethene	0.00154	0.000749	0.001873	0	82.1	70	130	7.84	20	
Trichloroethene (TCE)	0.00146	0.000749	0.001873	0	78.0	70	130	8.98	20	
Surr: 1,2-Dichloroethane-d4	0.00872		0.007493		116	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.00707		0.007493		94.3	65.3	135	0	0	
Surr: Dibromofluoromethane	0.00776		0.007493		104	70	130	0	0	
Surr: Toluene-d8	0.00729		0.007493		97.3	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15158**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	0.095	0.50								J
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15158**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.4		3.330		72.6	21	111			
Surr: Phenol-d5	2.4		3.330		73.0	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		71.3	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		83.3	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		76.0	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		74.8	39.4	107			

Sample ID **lcs-15158**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15158**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.1	0.20	1.670	0	66.0	50.7	110			
4-Chloro-3-methylphenol	2.4	0.50	3.330	0	73.1	47.8	107			
2-Chlorophenol	2.2	0.20	3.330	0	64.7	45.7	108			
1,4-Dichlorobenzene	0.99	0.20	1.670	0	59.1	46.1	112			
2,4-Dinitrotoluene	0.99	0.50	1.670	0	59.3	44.9	114			
N-Nitrosodi-n-propylamine	1.0	0.20	1.670	0	61.7	38.7	128			
4-Nitrophenol	2.5	0.25	3.330	0	75.7	40.2	103			
Pentachlorophenol	1.9	0.40	3.330	0	57.0	32.9	94			
Phenol	2.2	0.20	3.330	0	66.7	44.1	109			
Pyrene	1.1	0.20	1.670	0	66.9	51.9	109			
1,2,4-Trichlorobenzene	1.1	0.20	1.670	0	65.8	49.5	115			
Surr: 2-Fluorophenol	2.1		3.330		61.6	21	111			
Surr: Phenol-d5	2.1		3.330		62.9	23.1	117			
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.2		1.670		70.0	24.5	126			
Surr: 2-Fluorobiphenyl	1.2		1.670		72.5	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		73.2	39.4	107			

Sample ID **1409219-008ams**	SampType: **MS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **FFOR-CF-0070**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613410** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.4	0.22	1.807	0	75.8	53.8	92.8			
4-Chloro-3-methylphenol	3.0	0.54	3.602	0	83.2	34.9	104			
2-Chlorophenol	2.5	0.22	3.602	0	70.7	18.2	105			
1,4-Dichlorobenzene	1.1	0.22	1.807	0	62.0	18.1	112			
2,4-Dinitrotoluene	1.2	0.54	1.807	0	67.4	22	144			
N-Nitrosodi-n-propylamine	1.3	0.22	1.807	0	71.1	58.6	101			
4-Nitrophenol	3.0	0.27	3.602	0	82.0	13.7	127			
Pentachlorophenol	2.3	0.43	3.602	0	63.3	16.5	107			
Phenol	2.7	0.22	3.602	0	75.6	12.5	114			
Pyrene	1.7	0.22	1.807	0	94.3	14.2	116			
1,2,4-Trichlorobenzene	1.2	0.22	1.807	0	67.4	16	125			
Surr: 2-Fluorophenol	2.3		3.602		64.1	21	111			
Surr: Phenol-d5	2.5		3.602		68.1	23.1	117			
Surr: 2,4,6-Tribromophenol	2.7		3.602		75.6	22.7	88.9			
Surr: Nitrobenzene-d5	1.3		1.807		72.6	24.5	126			
Surr: 2-Fluorobiphenyl	1.4		1.807		77.9	21.2	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**1409219-008ams**	SampType:	**MS**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0070**	Batch ID:	**15158**		RunNo:	**21082**				
Prep Date:	**9/7/2014**	Analysis Date:	**9/8/2014**		SeqNo:	**613410**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	1.6		1.807		86.1	39.4	107			

Sample ID	**1409219-008amsd**	SampType:	**MSD**		TestCode:	**EPA Method 8270C: Semivolatiles**				
Client ID:	**FFOR-CF-0070**	Batch ID:	**15158**		RunNo:	**21082**				
Prep Date:	**9/7/2014**	Analysis Date:	**9/8/2014**		SeqNo:	**613411**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.3	0.22	1.804	0	73.5	53.8	92.8	3.27	22	
4-Chloro-3-methylphenol	3.1	0.54	3.596	0	85.5	34.9	104	2.50	27.3	
2-Chlorophenol	2.5	0.22	3.596	0	69.0	18.2	105	2.66	26.3	
1,4-Dichlorobenzene	1.1	0.22	1.804	0	62.1	18.1	112	0.123	27.4	
2,4-Dinitrotoluene	1.3	0.54	1.804	0	71.9	22	144	6.28	27.4	
N-Nitrosodi-n-propylamine	1.4	0.22	1.804	0	76.1	58.6	101	6.56	22.6	
4-Nitrophenol	3.1	0.27	3.596	0	86.7	13.7	127	5.37	20	
Pentachlorophenol	2.5	0.43	3.596	0	69.8	16.5	107	9.56	27.1	
Phenol	2.7	0.22	3.596	0	73.9	12.5	114	2.50	32.2	
Pyrene	1.6	0.22	1.804	0	87.8	14.2	116	7.29	29.5	
1,2,4-Trichlorobenzene	1.2	0.22	1.804	0	65.4	16	125	3.14	27.8	
Surr: 2-Fluorophenol	2.4		3.596		66.7	21	111	0	0	
Surr: Phenol-d5	2.5		3.596		70.2	23.1	117	0	0	
Surr: 2,4,6-Tribromophenol	3.0		3.596		83.3	22.7	88.9	0	0	
Surr: Nitrobenzene-d5	1.2		1.804		68.5	24.5	126	0	0	
Surr: 2-Fluorobiphenyl	1.4		1.804		76.4	21.2	129	0	0	
Surr: 4-Terphenyl-d14	1.6		1.804		89.1	39.4	107	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-15138**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**15138**		RunNo:	**21037**				
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**		SeqNo:	**612275**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-15138**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**15138**		RunNo:	**21037**				
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**		SeqNo:	**612276**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.25	25.00	0	93.5	80	120			

Sample ID	**1409219-008AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0070**	Batch ID:	**15138**		RunNo:	**21037**				
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**		SeqNo:	**612289**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.28	27.55	2.441	77.1	75	125			

Sample ID	**1409219-008AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0070**	Batch ID:	**15138**		RunNo:	**21037**				
Prep Date:	**9/5/2014**	Analysis Date:	**9/6/2014**		SeqNo:	**612290**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	23	0.27	27.25	2.441	75.8	75	125	2.58	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612882** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.9	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612884** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80	120			
Surr: BFB	480		500.0		96.8	61.2	137			

Sample ID **1409219-008a ms**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0070**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612894** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.6	18.01	1.578	109	58	134			
Surr: BFB	420		360.3		117	61.2	137			

Sample ID **1409219-008a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0070**	Batch ID: **R21061**	RunNo: **21061**
Prep Date:	Analysis Date: **9/5/2014**	SeqNo: **612895** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.6	18.01	1.578	108	58	134	1.09	20	
Surr: BFB	380		360.3		107	61.2	137	0	0	

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.3	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613763** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409219**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**R21086**	RunNo:	**21086**
Prep Date:		Analysis Date:	**9/8/2014**	SeqNo:	**613763**
Units:	**mg/Kg**				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	480		500.0		95.9	61.2	137			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409219** RcptNo: 1

Received by/date: 09/04/14

Logged By: **Ashley Gallegos** **9/4/2014 5:18:00 PM**

Completed By: **Ashley Gallegos** **9/4/2014 5:22:24 PM**

Reviewed By: 09/04/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.1	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-21

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 04 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/4/14 Time: 1640
1. Received By (Signature/Affiliation)	Date: 9/4/14 Time: 1640
2. Relinquished By (Signature/Affiliation)	Date: Time:
2. Received By (Signature/Affiliation)	Date: 09/04/14 Time: 1718
3. Relinquished By (Signature/Affiliation)	Date: Time:
3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0063 = 2.6 ppm, FFOR-CF-0064 = 3.9 ppm, FFOR-CF-0065 = 0.3 ppm, FFOR-CF-0066 = 0.3 ppm, FFOR-CF-0067 = 1.5 ppm, FFOR-CF-0068 = 1.1 ppm, FFOR-CF-0069 = 129 ppm, FFOR-CF-0070 = 808 ppm, FFOR-CF-0070-MS = 808 ppm, FFOR-CF-0070-MSD = 808 ppm, FFOR-CF-0071 = 51.7 ppm

QCed 09/04/14

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
✓ FFOR-CF-0063	FFOR-EXC-58-DS-FFOR-CF-0063-REG	04 SEP 2014	08:42	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1409249-00
✓ FFOR-CF-0063	FFOR-EXC-58-DS-FFOR-CF-0063-REG	04 SEP 2014	08:42	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-001
✓ FFOR-CF-0064	FFOR-EXC-59-DS-FFOR-CF-0064-REG	04 SEP 2014	08:50	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-002
✓ FFOR-CF-0064	FFOR-EXC-59-DS-FFOR-CF-0064-REG	04 SEP 2014	08:50	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
✓ FFOR-CF-0065	FFOR-EXC-60-DS-FFOR-CF-0065-REG	04 SEP 2014	09:00	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		-003

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-21

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							VOCs by SW846 8260B					140919
FFOR-CF-0065	FFOR-EXC-60-DS-FFOR-CF-0065-REG	04 SEP 2014	09:00	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
FFOR-CF-0066	FFOR-EXC-60-DS-FFOR-CF-0066-FD	04 SEP 2014	09:00	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004
FFOR-CF-0066	FFOR-EXC-60-DS-FFOR-CF-0066-FD	04 SEP 2014	09:00	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
FFOR-CF-0067	FFOR-EXC-61-DS-FFOR-CF-0067-REG	04 SEP 2014	09:30	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
FFOR-CF-0067	FFOR-EXC-61-DS-FFOR-CF-0067-REG	04 SEP 2014	09:30	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
FFOR-CF-0068	FFOR-EXC-62-DS-FFOR-CF-0068-REG	04 SEP 2014	11:12	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
FFOR-CF-0068	FFOR-EXC-62-DS-FFOR-CF-0068-REG	04 SEP 2014	11:12	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-006
FFOR-CF-0069	FFOR-EXC-63-DS-FFOR-CF-0069-REG	04 SEP 2014	14:31	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-007
FFOR-CF-0069	FFOR-EXC-63-DS-FFOR-CF-0069-REG	04 SEP 2014	14:31	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-007
FFOR-CF-0070	FFOR-EXC-64-DS-FFOR-CF-0070-REG	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-008
FFOR-CF-0070	FFOR-EXC-64-DS-FFOR-CF-0070-REG	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-008
FFOR-CF-0070-MS	FFOR-EXC-64-DS-FFOR-CF-0070-MS-M	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-009-C
FFOR-CF-0070-MS	FFOR-EXC-64-DS-FFOR-CF-0070-MS-M	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-009-C
FFOR-CF-0070-MSD	FFOR-EXC-64-DS-FFOR-CF-0070-MSD-	04 SEP 2014	14:45	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-010
FFOR-CF-0070-MSD	FFOR-EXC-64-DS-FFOR-CF-0070-MSD-	04 SEP 2014	14:45	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-010
FFOR-CF-0071	FFOR-EXC-65-DS-FFOR-CF-0071-REG	04 SEP 2014	14:54	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-011-0
FFOR-CF-0071	FFOR-EXC-65-DS-FFOR-CF-0071-REG	04 SEP 2014	14:54	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-011-0

MeOH Blank

-012-C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409275

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 12 sample(s) on 9/5/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Case Narrative

WO#: **1409275**
Date: **9/18/2014**

CLIENT: CB & I Federal Services LLC
Project: Kirtland AFB

Analytical Notes Regarding EPA Method 8270:
The following compounds were scanned for and were not detected in the sample: 1,2,4,5 Tetrachlorobenzene, 1,2- Diphenylhydrazine, 2,3,4,6-Tetrachlorophenol, Pentachlorobenzene, 2,6-Dichlorophenol and N-Nitrosodiethylamine.

Analytical Notes Regarding EPA Method 8260:
The following compounds were scanned for and were not detected in the sample: 1-Chlorohexane, 2-Propenal, Acrylonitrile.
Samples "FFOR-CF-0073, FFOR-CF-0075, FFOR-CF-0076, FFOR-CF-0077, FFOR-CF-0111, FFOR-CF-0112, FFOR-CF-0113" the ICV for Methylene chloride and bromomethane was low and the CCV was elevated. These sample were ND for Methylene Chloride
Samples "FFOR-CF-0072, FFOR-CF-0074, MeOH Blank" the ICV was elevated for Acetone. These samples were ND for Acetone

"S"flags regarding surrogate recoveries are due to matrix interferences and dilution.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0072
Project: Kirtland AFB
Collection Date: 9/5/2014 8:10:00 AM
Lab ID: 1409275-001
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	10000	600	1100		mg/Kg-dr	100	9/8/2014 12:51:32 PM	15139
Motor Oil Range Organics (MRO)	ND	5500	5500		mg/Kg-dr	100	9/8/2014 12:51:32 PM	15139
Surr: DNOP	0	0	57.9-140	S	%REC	100	9/8/2014 12:51:32 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.2	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	80	0.24	0.55		mg/Kg-dr	2	9/9/2014 11:01:36 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Aniline	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Dibenzofuran	1.0	0.073	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0072
Project: Kirtland AFB
Collection Date: 9/5/2014 8:10:00 AM
Lab ID: 1409275-001
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4-Dichlorophenol	ND	0.067	0.43		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4-Dinitrophenol	ND	0.077	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Fluorene	0.19	0.063	0.22	J	mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2-Methylnaphthalene	29	0.65	2.2		mg/Kg-dr	10	9/9/2014 2:43:07 PM	15158
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Naphthalene	17	0.52	2.2		mg/Kg-dr	10	9/9/2014 2:43:07 PM	15158
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Nitrobenzene	ND	0.061	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Pentachlorophenol	ND	0.088	0.43		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Phenanthrene	0.041	0.039	0.22	J	mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Phenol	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 5:34:14 PM	15158
Surr: 2-Fluorophenol	0		21-111	S	%REC	1	9/8/2014 5:34:14 PM	15158
Surr: Phenol-d5	129		23.1-117	S	%REC	1	9/8/2014 5:34:14 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0072
Project: Kirtland AFB
Collection Date: 9/5/2014 8:10:00 AM
Lab ID: 1409275-001
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	93.1		22.7-88.9	S	%REC	1	9/8/2014 5:34:14 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 5:34:14 PM	15158
Surr: 2-Fluorobiphenyl	72.5		21.2-129		%REC	1	9/8/2014 5:34:14 PM	15158
Surr: 4-Terphenyl-d14	74.4		39.4-107		%REC	1	9/8/2014 5:34:14 PM	15158
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	0.068	0.040	0.37	J	mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Toluene	4.4	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Ethylbenzene	20	0.039	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Methyl tert-butyl ether (MTBE)	ND	0.14	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2,4-Trimethylbenzene	100	0.44	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
1,3,5-Trimethylbenzene	25	0.39	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
1,2-Dichloroethane (EDC)	ND	0.060	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2-Dibromoethane (EDB)	ND	0.042	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Naphthalene	24	0.30	7.3		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
Acetone	0.76	0.36	5.5	J	mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Bromobenzene	ND	0.057	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Bromodichloromethane	ND	0.047	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Bromoform	ND	0.034	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Bromomethane	ND	0.052	1.1		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
2-Butanone	ND	0.17	3.7		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Carbon disulfide	ND	0.097	3.7		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Carbon tetrachloride	ND	0.051	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Chlorobenzene	ND	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Chloroethane	ND	0.061	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Chloroform	ND	0.13	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Chloromethane	ND	0.034	1.1		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
2-Chlorotoluene	ND	0.032	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
4-Chlorotoluene	ND	0.11	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
cis-1,2-DCE	ND	0.033	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
cis-1,3-Dichloropropene	ND	0.045	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2-Dibromo-3-chloropropane	ND	0.050	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Dibromochloromethane	ND	0.036	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Dibromomethane	ND	0.042	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2-Dichlorobenzene	ND	0.043	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,3-Dichlorobenzene	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,4-Dichlorobenzene	ND	0.043	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Dichlorodifluoromethane	ND	0.089	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1-Dichloroethane	ND	0.025	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1-Dichloroethene	ND	0.029	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0072
Project: Kirtland AFB
Collection Date: 9/5/2014 8:10:00 AM
Lab ID: 1409275-001
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.032	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,3-Dichloropropane	ND	0.069	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
2,2-Dichloropropane	ND	0.039	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1-Dichloropropene	ND	0.057	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Hexachlorobutadiene	ND	0.054	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
2-Hexanone	ND	0.18	3.7		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Isopropylbenzene	8.3	0.29	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
4-Isopropyltoluene	15	0.33	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
4-Methyl-2-pentanone	ND	0.14	3.7		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Methylene chloride	0.28	0.034	1.1	J	mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
n-Butylbenzene	43	0.32	11		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
n-Propylbenzene	24	0.37	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
sec-Butylbenzene	19	0.35	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
Styrene	ND	0.029	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
tert-Butylbenzene	ND	0.40	3.7		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
1,1,1,2-Tetrachloroethane	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1,2,2-Tetrachloroethane	ND	0.061	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Tetrachloroethene (PCE)	ND	0.045	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
trans-1,2-DCE	ND	0.041	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
trans-1,3-Dichloropropene	ND	0.050	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2,3-Trichlorobenzene	ND	0.041	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2,4-Trichlorobenzene	ND	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1,1-Trichloroethane	ND	0.037	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,1,2-Trichloroethane	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Trichloroethene (TCE)	ND	0.051	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Trichlorofluoromethane	ND	0.038	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
1,2,3-Trichloropropane	ND	0.055	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Vinyl chloride	ND	0.030	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Xylenes, Total	41	0.11	0.73		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Bromochloromethane	ND	0.17	0.37		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Vinyl acetate	ND	3.7	3.7		mg/Kg-dr	10	9/8/2014 7:57:13 PM	R21086
Surr: Dibromofluoromethane	90.1	0	70-130		%REC	10	9/8/2014 7:57:13 PM	R21086
Surr: 1,2-Dichloroethane-d4	88.8	0	70-130		%REC	10	9/8/2014 7:57:13 PM	R21086
Surr: Toluene-d8	100	0	70-130		%REC	10	9/8/2014 7:57:13 PM	R21086
Surr: 4-Bromofluorobenzene	109	0	70-130		%REC	100	9/12/2014 12:19:55 PM	R21173
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	5000	48	370		mg/Kg-dr	100	9/12/2014 12:19:55 PM	R21173
Surr: BFB	117	0	61.2-137		%REC	100	9/12/2014 12:19:55 PM	R21173

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Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0073
Project: Kirtland AFB
Collection Date: 9/5/2014 9:05:00 AM
Lab ID: 1409275-002
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	9/6/2014 8:03:23 PM	15139
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	9/6/2014 8:03:23 PM	15139
Surr: DNOP	83.5	0	57.9-140		%REC	1	9/6/2014 8:03:23 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	1.1	0.12	0.28		mg/Kg-dr	1	9/9/2014 10:38:50 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Aniline	ND	0.064	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Benzo(b)fluoranthene	ND	0.075	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Benzo(g,h,i)perylene	ND	0.066	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Benzo(k)fluoranthene	ND	0.083	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Carbazole	ND	0.049	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Chloro-3-methylphenol	ND	0.058	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Chlorophenol	ND	0.068	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Chlorophenyl phenyl ether	ND	0.062	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Dibenz(a,h)anthracene	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 9/5/2014 9:05:00 AM
Lab ID: 1409275-002
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4-Dichlorophenol	ND	0.067	0.43		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.045	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4-Dinitrophenol	ND	0.077	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Fluoranthene	ND	0.049	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.072	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Methylnaphthalene	ND	0.065	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Nitrobenzene	ND	0.061	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Pentachlorophenol	ND	0.088	0.43		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Phenol	ND	0.064	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Pyrene	ND	0.059	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	9/9/2014 2:13:57 PM	15158
Surr: 2-Fluorophenol	67.4		21-111		%REC	1	9/9/2014 2:13:57 PM	15158
Surr: Phenol-d5	63.8		23.1-117		%REC	1	9/9/2014 2:13:57 PM	15158

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 9/5/2014 9:05:00 AM
Lab ID: 1409275-002
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	63.3		22.7-88.9		%REC	1	9/9/2014 2:13:57 PM	15158
Surr: Nitrobenzene-d5	67.6		24.5-126		%REC	1	9/9/2014 2:13:57 PM	15158
Surr: 2-Fluorobiphenyl	70.8		21.2-129		%REC	1	9/9/2014 2:13:57 PM	15158
Surr: 4-Terphenyl-d14	68.1		39.4-107		%REC	1	9/9/2014 2:13:57 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Toluene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Ethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Xylenes, Total	ND	0.00143	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2,4-Trimethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,3,5-Trimethylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Naphthalene	ND	0.00143	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Acetone	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Bromobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Bromodichloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Bromoform	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Bromomethane	0.000909	0.000715	0.00358	J	mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
2-Butanone	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Carbon tetrachloride	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Chlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Chloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Chloroform	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Chloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
2-Chlorotoluene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Carbon disulfide	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
4-Chlorotoluene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
cis-1,2-DCE	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
cis-1,3-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Dibromochloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Dibromomethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,3-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,4-Dichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Dichlorodifluoromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1-Dichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165

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Qualifiers:

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Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,3-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
2,2-Dichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Hexachlorobutadiene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Isopropylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
4-Isopropyltoluene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Methylene chloride	ND	0.00143	0.00358		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
n-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
2-Hexanone	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
n-Propylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
sec-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Styrene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
4-Methyl-2-pentanone	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
tert-Butylbenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Tetrachloroethene (PCE)	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
trans-1,2-DCE	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
trans-1,3-Dichloropropene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2,3-Trichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2,4-Trichlorobenzene	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1,1-Trichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,1,2-Trichloroethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Trichloroethene (TCE)	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Trichlorofluoromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
1,2,3-Trichloropropane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Vinyl chloride	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Vinyl acetate	ND	0.00715	0.00715		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Bromochloromethane	ND	0.000715	0.00143		mg/Kg-dr	1	9/8/2014 12:40:16 PM	15165
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	9/8/2014 12:40:16 PM	15165
Surr: 4-Bromofluorobenzene	94.9	0	65.3-135		%REC	1	9/8/2014 12:40:16 PM	15165
Surr: Dibromofluoromethane	99.0	0	70-130		%REC	1	9/8/2014 12:40:16 PM	15165
Surr: Toluene-d8	97.8	0	70-130		%REC	1	9/8/2014 12:40:16 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.55	4.2		mg/Kg-dr	1	9/8/2014 12:55:52 PM	R21086
Surr: BFB	107	0	61.2-137		%REC	1	9/8/2014 12:55:52 PM	R21086

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0074
Project: Kirtland AFB
Collection Date: 9/5/2014 11:16:00 AM
Lab ID: 1409275-003
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	2000	60	110		mg/Kg-dr	10	9/6/2014 8:24:46 PM	15139
Motor Oil Range Organics (MRO)	ND	540	540		mg/Kg-dr	10	9/6/2014 8:24:46 PM	15139
Surr: DNOP	0	0	57.9-140	S	%REC	10	9/6/2014 8:24:46 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.9	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.9	0.11	0.26		mg/Kg-dr	1	9/9/2014 10:40:08 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.050	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Acenaphthylene	ND	0.051	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Aniline	ND	0.062	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Anthracene	0.047	0.045	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Benz(a)anthracene	0.25	0.057	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Benzo(a)pyrene	0.13	0.063	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Benzo(b)fluoranthene	0.63	0.072	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Benzo(g,h,i)perylene	0.13	0.063	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Benzo(k)fluoranthene	ND	0.080	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Bis(2-chloroethoxy)methane	ND	0.071	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Bis(2-chloroethyl)ether	ND	0.084	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.039	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.071	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Bromophenyl phenyl ether	ND	0.053	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Butyl benzyl phthalate	ND	0.045	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Carbazole	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Chloro-3-methylphenol	ND	0.055	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Chloroaniline	ND	0.055	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Chloronaphthalene	ND	0.060	0.26		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Chlorophenol	ND	0.065	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Chlorophenyl phenyl ether	ND	0.059	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Chrysene	0.25	0.053	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Di-n-butyl phthalate	ND	0.047	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Di-n-octyl phthalate	ND	0.26	0.42		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Dibenz(a,h)anthracene	0.071	0.062	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Dibenzofuran	0.20	0.070	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
1,2-Dichlorobenzene	ND	0.041	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
1,3-Dichlorobenzene	ND	0.059	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
1,4-Dichlorobenzene	ND	0.065	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
3,3´-Dichlorobenzidine	ND	0.058	0.26		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158

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Hall Environmental Analysis Laboratory, Inc.

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Project: Kirtland AFB
Collection Date: 9/5/2014 11:16:00 AM
Lab ID: 1409275-003
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.047	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Dimethyl phthalate	ND	0.058	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4-Dichlorophenol	ND	0.065	0.42		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4-Dimethylphenol	ND	0.062	0.31		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.043	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4-Dinitrophenol	ND	0.074	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4-Dinitrotoluene	ND	0.077	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,6-Dinitrotoluene	ND	0.062	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Fluoranthene	0.79	0.047	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Fluorene	0.089	0.061	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Hexachlorobenzene	ND	0.057	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Hexachlorobutadiene	ND	0.050	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Hexachlorocyclopentadiene	ND	0.068	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Hexachloroethane	ND	0.074	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Indeno(1,2,3-cd)pyrene	0.15	0.069	0.21	J	mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Isophorone	ND	0.069	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Methylnaphthalene	3.0	0.062	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Methylphenol	ND	0.060	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
3+4-Methylphenol	ND	0.071	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
N-Nitrosodi-n-propylamine	ND	0.070	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
N-Nitrosodimethylamine	ND	0.079	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
N-Nitrosodiphenylamine	ND	0.061	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Naphthalene	1.5	0.050	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Nitroaniline	ND	0.050	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
3-Nitroaniline	ND	0.061	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Nitroaniline	ND	0.050	0.42		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Nitrobenzene	ND	0.058	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2-Nitrophenol	ND	0.058	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
4-Nitrophenol	ND	0.064	0.26		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Pentachlorophenol	ND	0.085	0.42		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Phenanthrene	0.49	0.038	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Phenol	ND	0.061	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Pyrene	0.90	0.057	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Pyridine	ND	0.058	0.52		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
1,2,4-Trichlorobenzene	ND	0.061	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4,5-Trichlorophenol	ND	0.046	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
2,4,6-Trichlorophenol	ND	0.057	0.21		mg/Kg-dr	1	9/8/2014 6:03:26 PM	15158
Surr: 2-Fluorophenol	43.6		21-111		%REC	1	9/8/2014 6:03:26 PM	15158
Surr: Phenol-d5	82.5		23.1-117		%REC	1	9/8/2014 6:03:26 PM	15158

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Project: Kirtland AFB
Collection Date: 9/5/2014 11:16:00 AM
Lab ID: 1409275-003
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	84.0		22.7-88.9		%REC	1	9/8/2014 6:03:26 PM	15158
Surr: Nitrobenzene-d5	0		24.5-126	S	%REC	1	9/8/2014 6:03:26 PM	15158
Surr: 2-Fluorobiphenyl	77.5		21.2-129		%REC	1	9/8/2014 6:03:26 PM	15158
Surr: 4-Terphenyl-d14	79.8		39.4-107		%REC	1	9/8/2014 6:03:26 PM	15158
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Toluene	0.60	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Ethylbenzene	5.0	0.039	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Methyl tert-butyl ether (MTBE)	ND	0.14	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2,4-Trimethylbenzene	17	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,3,5-Trimethylbenzene	8.8	0.039	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2-Dichloroethane (EDC)	ND	0.060	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2-Dibromoethane (EDB)	ND	0.042	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Naphthalene	2.4	0.030	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Acetone	4.6	0.36	5.5	J	mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Bromobenzene	ND	0.057	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Bromodichloromethane	ND	0.047	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Bromoform	ND	0.034	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Bromomethane	ND	0.052	1.1		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
2-Butanone	2.2	0.17	3.7	J	mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Carbon disulfide	ND	0.097	3.7		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Carbon tetrachloride	ND	0.051	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Chlorobenzene	ND	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Chloroethane	ND	0.060	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Chloroform	ND	0.13	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Chloromethane	ND	0.034	1.1		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
2-Chlorotoluene	ND	0.032	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
4-Chlorotoluene	ND	0.11	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
cis-1,2-DCE	ND	0.033	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
cis-1,3-Dichloropropene	ND	0.045	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2-Dibromo-3-chloropropane	ND	0.050	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Dibromochloromethane	ND	0.036	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Dibromomethane	ND	0.042	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2-Dichlorobenzene	ND	0.043	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,3-Dichlorobenzene	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,4-Dichlorobenzene	ND	0.043	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Dichlorodifluoromethane	ND	0.088	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1-Dichloroethane	ND	0.025	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1-Dichloroethene	ND	0.029	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086

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Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
1,2-Dichloropropane	ND	0.032	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,3-Dichloropropane	ND	0.069	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
2,2-Dichloropropane	ND	0.039	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1-Dichloropropene	ND	0.057	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Hexachlorobutadiene	ND	0.054	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
2-Hexanone	ND	0.18	3.7		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Isopropylbenzene	2.3	0.029	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
4-Isopropyltoluene	1.6	0.033	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
4-Methyl-2-pentanone	ND	0.14	3.7		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Methylene chloride	0.40	0.034	1.1	J	mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
n-Butylbenzene	1.5	0.032	1.1		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
n-Propylbenzene	3.4	0.037	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
sec-Butylbenzene	1.3	0.035	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Styrene	ND	0.029	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
tert-Butylbenzene	0.088	0.040	0.37	J	mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1,1,2-Tetrachloroethane	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1,2,2-Tetrachloroethane	ND	0.061	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Tetrachloroethene (PCE)	ND	0.045	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
trans-1,2-DCE	ND	0.041	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
trans-1,3-Dichloropropene	ND	0.050	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2,3-Trichlorobenzene	ND	0.041	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2,4-Trichlorobenzene	ND	0.040	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1,1-Trichloroethane	ND	0.037	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,1,2-Trichloroethane	ND	0.044	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Trichloroethene (TCE)	ND	0.051	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Trichlorofluoromethane	ND	0.038	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
1,2,3-Trichloropropane	ND	0.055	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Vinyl chloride	ND	0.030	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Xylenes, Total	46	0.11	0.73		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Bromochloromethane	ND	0.17	0.37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Vinyl acetate	ND	3.7	3.7		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Surr: Dibromofluoromethane	87.2	0	70-130		%REC	10	9/8/2014 7:01:20 PM	R21086
Surr: 1,2-Dichloroethane-d4	93.3	0	70-130		%REC	10	9/8/2014 7:01:20 PM	R21086
Surr: Toluene-d8	98.6	0	70-130		%REC	10	9/8/2014 7:01:20 PM	R21086
Surr: 4-Bromofluorobenzene	150	0	70-130	S	%REC	10	9/8/2014 7:01:20 PM	R21086
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	2200	4.7	37		mg/Kg-dr	10	9/8/2014 7:01:20 PM	R21086
Surr: BFB	136	0	61.2-137		%REC	10	9/8/2014 7:01:20 PM	R21086

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0075
Project: Kirtland AFB
Collection Date: 9/5/2014 1:19:00 PM
Lab ID: 1409275-004
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	9/6/2014 8:46:06 PM	15139
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	9/6/2014 8:46:06 PM	15139
Surr: DNOP	84.4	0	57.9-140		%REC	1	9/6/2014 8:46:06 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.1	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	7.6	0.12	0.27		mg/Kg-dr	1	9/9/2014 11:02:51 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Acenaphthylene	ND	0.11	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Aniline	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Anthracene	ND	0.094	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Benz(a)anthracene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Benzo(a)pyrene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Benzo(b)fluoranthene	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Benzo(g,h,i)perylene	0.20	0.13	0.43	J	mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Benzo(k)fluoranthene	ND	0.16	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Bis(2-chloroethoxy)methane	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Bis(2-chloroethyl)ether	ND	0.17	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.081	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.15	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Bromophenyl phenyl ether	ND	0.11	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Butyl benzyl phthalate	ND	0.092	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Carbazole	ND	0.097	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Chloronaphthalene	ND	0.12	0.54		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Chlorophenol	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Chlorophenyl phenyl ether	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Chrysene	ND	0.11	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Di-n-butyl phthalate	ND	0.098	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Di-n-octyl phthalate	ND	0.54	0.87		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Dibenz(a,h)anthracene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Dibenzofuran	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
1,2-Dichlorobenzene	ND	0.085	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
1,3-Dichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
1,4-Dichlorobenzene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
3,3´-Dichlorobenzidine	ND	0.12	0.54		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158

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Qualifiers:

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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0075
Project: Kirtland AFB
Collection Date: 9/5/2014 1:19:00 PM
Lab ID: 1409275-004
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.097	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Dimethyl phthalate	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4-Dichlorophenol	ND	0.13	0.87		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4-Dimethylphenol	ND	0.13	0.65		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.089	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Fluoranthene	ND	0.097	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Fluorene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Hexachlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Hexachlorobutadiene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Hexachlorocyclopentadiene	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Hexachloroethane	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Indeno(1,2,3-cd)pyrene	0.15	0.14	0.43	J	mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Methylnaphthalene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
3+4-Methylphenol	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
N-Nitrosodi-n-propylamine	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
N-Nitrosodimethylamine	ND	0.16	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
N-Nitrosodiphenylamine	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Naphthalene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Nitroaniline	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
3-Nitroaniline	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Nitroaniline	ND	0.10	0.87		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2-Nitrophenol	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
4-Nitrophenol	ND	0.13	0.54		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Pentachlorophenol	ND	0.18	0.87		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Phenanthrene	ND	0.079	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Phenol	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Pyrene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
1,2,4-Trichlorobenzene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4,5-Trichlorophenol	ND	0.096	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
2,4,6-Trichlorophenol	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 6:32:31 PM	15158
Surr: 2-Fluorophenol	82.4		21-111		%REC	1	9/8/2014 6:32:31 PM	15158
Surr: Phenol-d5	77.0		23.1-117		%REC	1	9/8/2014 6:32:31 PM	15158

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0075
Project: Kirtland AFB
Collection Date: 9/5/2014 1:19:00 PM
Lab ID: 1409275-004
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	78.6		22.7-88.9		%REC	1	9/8/2014 6:32:31 PM	15158
Surr: Nitrobenzene-d5	85.9		24.5-126		%REC	1	9/8/2014 6:32:31 PM	15158
Surr: 2-Fluorobiphenyl	89.3		21.2-129		%REC	1	9/8/2014 6:32:31 PM	15158
Surr: 4-Terphenyl-d14	89.1		39.4-107		%REC	1	9/8/2014 6:32:31 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Toluene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Ethylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Xylenes, Total	ND	0.00162	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2,4-Trimethylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,3,5-Trimethylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Naphthalene	ND	0.00162	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Acetone	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Bromobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Bromodichloromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Bromoform	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Bromomethane	0.000926	0.000811	0.00406	J	mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
2-Butanone	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Carbon tetrachloride	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Chlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Chloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Chloroform	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Chloromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
2-Chlorotoluene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Carbon disulfide	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
4-Chlorotoluene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
cis-1,2-DCE	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
cis-1,3-Dichloropropene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Dibromochloromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Dibromomethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2-Dichlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,3-Dichlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,4-Dichlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Dichlorodifluoromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1-Dichloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165

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Qualifiers:

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CLIENT: CB & I Federal Services LLC
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Collection Date: 9/5/2014 1:19:00 PM
Lab ID: 1409275-004
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2-Dichloropropane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,3-Dichloropropane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
2,2-Dichloropropane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1-Dichloropropene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Hexachlorobutadiene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Isopropylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
4-Isopropyltoluene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Methylene chloride	ND	0.00162	0.00406		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
n-Butylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
2-Hexanone	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
n-Propylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
sec-Butylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Styrene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
4-Methyl-2-pentanone	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
tert-Butylbenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Tetrachloroethene (PCE)	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
trans-1,2-DCE	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
trans-1,3-Dichloropropene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2,3-Trichlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2,4-Trichlorobenzene	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1,1-Trichloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,1,2-Trichloroethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Trichloroethene (TCE)	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Trichlorofluoromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
1,2,3-Trichloropropane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Vinyl chloride	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Vinyl acetate	ND	0.00811	0.00811		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Bromochloromethane	ND	0.000811	0.00162		mg/Kg-dr	1	9/8/2014 2:06:24 PM	15165
Surr: 1,2-Dichloroethane-d4	117	0	70-130		%REC	1	9/8/2014 2:06:24 PM	15165
Surr: 4-Bromofluorobenzene	97.6	0	65.3-135		%REC	1	9/8/2014 2:06:24 PM	15165
Surr: Dibromofluoromethane	106	0	70-130		%REC	1	9/8/2014 2:06:24 PM	15165
Surr: Toluene-d8	95.9	0	70-130		%REC	1	9/8/2014 2:06:24 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.54	4.2		mg/Kg-dr	1	9/8/2014 2:48:37 PM	R21086
Surr: BFB	111	0	61.2-137		%REC	1	9/8/2014 2:48:37 PM	R21086

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0076
Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-005
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/6/2014 9:07:31 PM	15139
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/6/2014 9:07:31 PM	15139
Surr: DNOP	85.4	0	57.9-140		%REC	1	9/6/2014 9:07:31 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.1	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	7.4	0.12	0.28		mg/Kg-dr	1	9/9/2014 10:49:03 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Acenaphthylene	ND	0.10	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Aniline	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Anthracene	ND	0.091	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Benz(a)anthracene	ND	0.11	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Benzo(a)pyrene	ND	0.13	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Benzo(b)fluoranthene	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Benzo(g,h,i)perylene	ND	0.13	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Benzo(k)fluoranthene	ND	0.16	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Bis(2-chloroethoxy)methane	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Bis(2-chloroethyl)ether	ND	0.17	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.078	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.14	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Bromophenyl phenyl ether	ND	0.11	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Butyl benzyl phthalate	ND	0.089	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Carbazole	ND	0.094	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Chloronaphthalene	ND	0.12	0.53		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Chlorophenol	ND	0.13	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Chlorophenyl phenyl ether	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Chrysene	ND	0.11	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Di-n-butyl phthalate	ND	0.095	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Di-n-octyl phthalate	ND	0.53	0.84		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Dibenz(a,h)anthracene	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Dibenzofuran	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
1,2-Dichlorobenzene	ND	0.082	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
1,3-Dichlorobenzene	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
1,4-Dichlorobenzene	ND	0.13	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
3,3´-Dichlorobenzidine	ND	0.12	0.53		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158

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Qualifiers:

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S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0076
Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-005
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.094	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Dimethyl phthalate	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4-Dichlorophenol	ND	0.13	0.84		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4-Dimethylphenol	ND	0.13	0.63		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.086	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4-Dinitrotoluene	ND	0.15	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,6-Dinitrotoluene	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Fluoranthene	ND	0.094	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Fluorene	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Hexachlorobenzene	ND	0.11	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Hexachlorobutadiene	ND	0.10	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Hexachlorocyclopentadiene	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Hexachloroethane	ND	0.15	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Methylnaphthalene	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
3+4-Methylphenol	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
N-Nitrosodi-n-propylamine	ND	0.14	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
N-Nitrosodimethylamine	ND	0.16	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
N-Nitrosodiphenylamine	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Naphthalene	ND	0.10	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Nitroaniline	ND	0.10	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
3-Nitroaniline	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Nitroaniline	ND	0.10	0.84		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2-Nitrophenol	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
4-Nitrophenol	ND	0.13	0.53		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Pentachlorophenol	ND	0.17	0.84		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Phenanthrene	ND	0.076	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Phenol	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Pyrene	ND	0.11	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
1,2,4-Trichlorobenzene	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4,5-Trichlorophenol	ND	0.093	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
2,4,6-Trichlorophenol	ND	0.12	0.42		mg/Kg-dr	1	9/8/2014 9:27:06 PM	15158
Surr: 2-Fluorophenol	90.2		21-111		%REC	1	9/8/2014 9:27:06 PM	15158
Surr: Phenol-d5	80.8		23.1-117		%REC	1	9/8/2014 9:27:06 PM	15158

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0076
Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-005
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	71.8		22.7-88.9		%REC	1	9/8/2014 9:27:06 PM	15158
Surr: Nitrobenzene-d5	91.0		24.5-126		%REC	1	9/8/2014 9:27:06 PM	15158
Surr: 2-Fluorobiphenyl	85.8		21.2-129		%REC	1	9/8/2014 9:27:06 PM	15158
Surr: 4-Terphenyl-d14	82.2		39.4-107		%REC	1	9/8/2014 9:27:06 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Toluene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Ethylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Xylenes, Total	ND	0.00140	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2,4-Trimethylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,3,5-Trimethylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Naphthalene	ND	0.00140	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Acetone	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Bromobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Bromodichloromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Bromoform	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Bromomethane	0.000804	0.000699	0.00349	J	mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
2-Butanone	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Carbon tetrachloride	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Chlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Chloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Chloroform	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Chloromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
2-Chlorotoluene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Carbon disulfide	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
4-Chlorotoluene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
cis-1,2-DCE	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
cis-1,3-Dichloropropene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Dibromochloromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Dibromomethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2-Dichlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,3-Dichlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,4-Dichlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Dichlorodifluoromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1-Dichloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Hall Environmental Analysis Laboratory, Inc.

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Lab ID: 1409275-005
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2-Dichloropropane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,3-Dichloropropane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
2,2-Dichloropropane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1-Dichloropropene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Hexachlorobutadiene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Isopropylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
4-Isopropyltoluene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Methylene chloride	ND	0.00140	0.00349		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
n-Butylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
2-Hexanone	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
n-Propylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
sec-Butylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Styrene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
4-Methyl-2-pentanone	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
tert-Butylbenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Tetrachloroethene (PCE)	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
trans-1,2-DCE	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
trans-1,3-Dichloropropene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2,3-Trichlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2,4-Trichlorobenzene	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1,1-Trichloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,1,2-Trichloroethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Trichloroethene (TCE)	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Trichlorofluoromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
1,2,3-Trichloropropane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Vinyl chloride	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Vinyl acetate	ND	0.00699	0.00699		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Bromochloromethane	ND	0.000699	0.00140		mg/Kg-dr	1	9/8/2014 2:35:08 PM	15165
Surr: 1,2-Dichloroethane-d4	109	0	70-130		%REC	1	9/8/2014 2:35:08 PM	15165
Surr: 4-Bromofluorobenzene	102	0	65.3-135		%REC	1	9/8/2014 2:35:08 PM	15165
Surr: Dibromofluoromethane	98.6	0	70-130		%REC	1	9/8/2014 2:35:08 PM	15165
Surr: Toluene-d8	101	0	70-130		%REC	1	9/8/2014 2:35:08 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.50	3.9		mg/Kg-dr	1	9/8/2014 3:16:50 PM	R21086
Surr: BFB	112	0	61.2-137		%REC	1	9/8/2014 3:16:50 PM	R21086

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0077
Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-006
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.1	11		mg/Kg-dr	1	9/6/2014 9:28:48 PM	15139
Motor Oil Range Organics (MRO)	ND	55	55		mg/Kg-dr	1	9/6/2014 9:28:48 PM	15139
Surr: DNOP	85.9	0	57.9-140		%REC	1	9/6/2014 9:28:48 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	9.4	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.2	0.12	0.27		mg/Kg-dr	1	9/9/2014 10:50:20 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Acenaphthylene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Aniline	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Anthracene	ND	0.093	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Benz(a)anthracene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Benzo(a)pyrene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Benzo(b)fluoranthene	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Benzo(g,h,i)perylene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Benzo(k)fluoranthene	ND	0.16	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Bis(2-chloroethoxy)methane	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Bis(2-chloroethyl)ether	ND	0.17	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.080	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.14	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Bromophenyl phenyl ether	ND	0.11	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Butyl benzyl phthalate	ND	0.091	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Carbazole	ND	0.096	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Chloro-3-methylphenol	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Chloroaniline	ND	0.11	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Chloronaphthalene	ND	0.12	0.54		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Chlorophenol	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Chlorophenyl phenyl ether	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Chrysene	ND	0.11	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Di-n-butyl phthalate	ND	0.096	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Di-n-octyl phthalate	ND	0.54	0.86		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Dibenz(a,h)anthracene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Dibenzofuran	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
1,2-Dichlorobenzene	ND	0.084	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
1,3-Dichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
1,4-Dichlorobenzene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
3,3´-Dichlorobenzidine	ND	0.12	0.54		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158

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Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
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Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-006
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.096	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Dimethyl phthalate	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4-Dichlorophenol	ND	0.13	0.86		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4-Dimethylphenol	ND	0.13	0.64		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.088	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4-Dinitrophenol	ND	0.15	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4-Dinitrotoluene	ND	0.16	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,6-Dinitrotoluene	ND	0.13	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Fluoranthene	ND	0.096	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Fluorene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Hexachlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Hexachlorobutadiene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Hexachlorocyclopentadiene	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Hexachloroethane	ND	0.15	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Isophorone	ND	0.14	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Methylnaphthalene	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Methylphenol	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
3+4-Methylphenol	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
N-Nitrosodi-n-propylamine	ND	0.14	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
N-Nitrosodimethylamine	ND	0.16	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
N-Nitrosodiphenylamine	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Naphthalene	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Nitroaniline	ND	0.10	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
3-Nitroaniline	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Nitroaniline	ND	0.10	0.86		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Nitrobenzene	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2-Nitrophenol	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
4-Nitrophenol	ND	0.13	0.54		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Pentachlorophenol	ND	0.17	0.86		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Phenanthrene	ND	0.078	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Phenol	ND	0.13	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Pyrene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Pyridine	ND	0.12	1.1		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
1,2,4-Trichlorobenzene	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4,5-Trichlorophenol	ND	0.095	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
2,4,6-Trichlorophenol	ND	0.12	0.43		mg/Kg-dr	1	9/8/2014 7:01:38 PM	15158
Surr: 2-Fluorophenol	60.7		21-111		%REC	1	9/8/2014 7:01:38 PM	15158
Surr: Phenol-d5	60.0		23.1-117		%REC	1	9/8/2014 7:01:38 PM	15158

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0077
Project: Kirtland AFB
Collection Date: 9/5/2014 1:29:00 PM
Lab ID: 1409275-006
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	67.3		22.7-88.9		%REC	1	9/8/2014 7:01:38 PM	15158
Surr: Nitrobenzene-d5	65.9		24.5-126		%REC	1	9/8/2014 7:01:38 PM	15158
Surr: 2-Fluorobiphenyl	70.5		21.2-129		%REC	1	9/8/2014 7:01:38 PM	15158
Surr: 4-Terphenyl-d14	78.7		39.4-107		%REC	1	9/8/2014 7:01:38 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Toluene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Ethylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Xylenes, Total	ND	0.00159	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2,4-Trimethylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,3,5-Trimethylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Naphthalene	ND	0.00159	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Acetone	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Bromobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Bromodichloromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Bromoform	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Bromomethane	0.000890	0.000793	0.00396	J	mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
2-Butanone	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Carbon tetrachloride	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Chlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Chloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Chloroform	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Chloromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
2-Chlorotoluene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Carbon disulfide	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
4-Chlorotoluene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
cis-1,2-DCE	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
cis-1,3-Dichloropropene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Dibromochloromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Dibromomethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2-Dichlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,3-Dichlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,4-Dichlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Dichlorodifluoromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1-Dichloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165

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Qualifiers:

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Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2-Dichloropropane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,3-Dichloropropane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
2,2-Dichloropropane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1-Dichloropropene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Hexachlorobutadiene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Isopropylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
4-Isopropyltoluene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Methylene chloride	ND	0.00159	0.00396		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
n-Butylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
2-Hexanone	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
n-Propylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
sec-Butylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Styrene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
4-Methyl-2-pentanone	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
tert-Butylbenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Tetrachloroethene (PCE)	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
trans-1,2-DCE	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
trans-1,3-Dichloropropene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2,3-Trichlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2,4-Trichlorobenzene	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1,1-Trichloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,1,2-Trichloroethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Trichloroethene (TCE)	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Trichlorofluoromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
1,2,3-Trichloropropane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Vinyl chloride	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Vinyl acetate	ND	0.00793	0.00793		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Bromochloromethane	ND	0.000793	0.00159		mg/Kg-dr	1	9/8/2014 3:03:52 PM	15165
Surr: 1,2-Dichloroethane-d4	113	0	70-130		%REC	1	9/8/2014 3:03:52 PM	15165
Surr: 4-Bromofluorobenzene	110	0	65.3-135		%REC	1	9/8/2014 3:03:52 PM	15165
Surr: Dibromofluoromethane	105	0	70-130		%REC	1	9/8/2014 3:03:52 PM	15165
Surr: Toluene-d8	101	0	70-130		%REC	1	9/8/2014 3:03:52 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	0.56	0.54	4.2	J	mg/Kg-dr	1	9/8/2014 3:45:03 PM	R21086
Surr: BFB	109	0	61.2-137		%REC	1	9/8/2014 3:45:03 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0084
Project: Kirtland AFB
Collection Date: 9/5/2014 9:13:00 AM
Lab ID: 1409275-007
Matrix: SOIL
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0056	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
1-Methylnaphthalene	ND	0.0056	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Fluorene	ND	0.0072	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Phenanthrene	ND	0.0057	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Anthracene	ND	0.0060	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Fluoranthene	ND	0.0062	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Pyrene	ND	0.0049	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Benz(a)anthracene	ND	0.0051	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Chrysene	0.0073	0.0036	0.020	J	mg/Kg	1	9/9/2014 4:00:05 PM	15163
Benzo(b)fluoranthene	0.035	0.0065	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Benzo(a)pyrene	ND	0.0076	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Dibenz(a,h)anthracene	0.0087	0.0073	0.020	J	mg/Kg	1	9/9/2014 4:00:05 PM	15163
Benzo(g,h,i)perylene	0.025	0.0058	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Indeno(1,2,3-cd)pyrene	0.025	0.0068	0.020		mg/Kg	1	9/9/2014 4:00:05 PM	15163
Surr: N-hexadecane	54.2	0	27-106		%REC	1	9/9/2014 4:00:05 PM	15163
Surr: Benzo(e)pyrene	61.1	0	34.7-131		%REC	1	9/9/2014 4:00:05 PM	15163

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0085
Project: Kirtland AFB
Collection Date: 9/5/2014 9:13:00 AM
Lab ID: 1409275-008
Matrix: SOIL
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0056	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
1-Methylnaphthalene	ND	0.0056	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Fluorene	ND	0.0072	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Phenanthrene	ND	0.0057	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Anthracene	ND	0.0060	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Fluoranthene	ND	0.0062	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Pyrene	ND	0.0049	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Benz(a)anthracene	ND	0.0051	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Chrysene	0.0093	0.0036	0.020	J	mg/Kg	1	9/9/2014 5:09:46 PM	15163
Benzo(b)fluoranthene	0.043	0.0065	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Benzo(a)pyrene	0.011	0.0076	0.020	J	mg/Kg	1	9/9/2014 5:09:46 PM	15163
Dibenz(a,h)anthracene	0.0093	0.0073	0.020	J	mg/Kg	1	9/9/2014 5:09:46 PM	15163
Benzo(g,h,i)perylene	0.028	0.0058	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Indeno(1,2,3-cd)pyrene	0.029	0.0068	0.020		mg/Kg	1	9/9/2014 5:09:46 PM	15163
Surr: N-hexadecane	69.6	0	27-106		%REC	1	9/9/2014 5:09:46 PM	15163
Surr: Benzo(e)pyrene	71.0	0	34.7-131		%REC	1	9/9/2014 5:09:46 PM	15163

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0111
Project: Kirtland AFB
Collection Date: 9/5/2014 1:46:00 PM
Lab ID: 1409275-009
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	5.9	11		mg/Kg-dr	1	9/6/2014 9:50:13 PM	15139
Motor Oil Range Organics (MRO)	ND	53	53		mg/Kg-dr	1	9/6/2014 9:50:13 PM	15139
Surr: DNOP	89.9	0	57.9-140		%REC	1	9/6/2014 9:50:13 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	7.9	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	4.1	0.12	0.27		mg/Kg-dr	1	9/9/2014 10:51:38 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Aniline	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Anthracene	ND	0.047	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Benz(a)anthracene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Benzo(a)pyrene	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Benzo(b)fluoranthene	ND	0.074	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Benzo(g,h,i)perylene	0.10	0.065	0.22	J	mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Benzo(k)fluoranthene	ND	0.082	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Bis(2-chloroethyl)ether	ND	0.086	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Bromophenyl phenyl ether	ND	0.054	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Carbazole	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Chlorophenol	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Chlorophenyl phenyl ether	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Chrysene	ND	0.055	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Dibenz(a,h)anthracene	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Dibenzofuran	ND	0.072	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0111
Project: Kirtland AFB
Collection Date: 9/5/2014 1:46:00 PM
Lab ID: 1409275-009
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4-Dichlorophenol	ND	0.066	0.43		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4-Dimethylphenol	ND	0.064	0.32		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4-Dinitrophenol	ND	0.076	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4-Dinitrotoluene	ND	0.079	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Fluoranthene	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Indeno(1,2,3-cd)pyrene	0.092	0.071	0.22	J	mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Methylnaphthalene	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
N-Nitrosodimethylamine	ND	0.081	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Naphthalene	ND	0.051	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Nitrobenzene	ND	0.060	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2-Nitrophenol	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
4-Nitrophenol	ND	0.066	0.27		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Pentachlorophenol	ND	0.087	0.43		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Phenanthrene	ND	0.039	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Phenol	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Pyrene	ND	0.058	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
1,2,4-Trichlorobenzene	ND	0.062	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 7:30:42 PM	15158
Surr: 2-Fluorophenol	58.7		21-111		%REC	1	9/8/2014 7:30:42 PM	15158
Surr: Phenol-d5	63.0		23.1-117		%REC	1	9/8/2014 7:30:42 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0111
Project: Kirtland AFB
Collection Date: 9/5/2014 1:46:00 PM
Lab ID: 1409275-009
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	64.7		22.7-88.9		%REC	1	9/8/2014 7:30:42 PM	15158
Surr: Nitrobenzene-d5	64.8		24.5-126		%REC	1	9/8/2014 7:30:42 PM	15158
Surr: 2-Fluorobiphenyl	71.9		21.2-129		%REC	1	9/8/2014 7:30:42 PM	15158
Surr: 4-Terphenyl-d14	72.1		39.4-107		%REC	1	9/8/2014 7:30:42 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Toluene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Ethylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Xylenes, Total	ND	0.00135	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2,4-Trimethylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,3,5-Trimethylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Naphthalene	ND	0.00135	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Acetone	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Bromobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Bromodichloromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Bromoform	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Bromomethane	0.000819	0.000675	0.00338	J	mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
2-Butanone	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Carbon tetrachloride	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Chlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Chloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Chloroform	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Chloromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
2-Chlorotoluene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Carbon disulfide	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
4-Chlorotoluene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
cis-1,2-DCE	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
cis-1,3-Dichloropropene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Dibromochloromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Dibromomethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2-Dichlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,3-Dichlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,4-Dichlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Dichlorodifluoromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1-Dichloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0111
Project: Kirtland AFB
Collection Date: 9/5/2014 1:46:00 PM
Lab ID: 1409275-009
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2-Dichloropropane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,3-Dichloropropane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
2,2-Dichloropropane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1-Dichloropropene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Hexachlorobutadiene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Isopropylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
4-Isopropyltoluene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Methylene chloride	ND	0.00135	0.00338		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
n-Butylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
2-Hexanone	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
n-Propylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
sec-Butylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Styrene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
4-Methyl-2-pentanone	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
tert-Butylbenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Tetrachloroethene (PCE)	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
trans-1,2-DCE	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
trans-1,3-Dichloropropene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2,3-Trichlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2,4-Trichlorobenzene	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1,1-Trichloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,1,2-Trichloroethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Trichloroethene (TCE)	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Trichlorofluoromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
1,2,3-Trichloropropane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Vinyl chloride	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Vinyl acetate	ND	0.00675	0.00675		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Bromochloromethane	ND	0.000675	0.00135		mg/Kg-dr	1	9/8/2014 3:32:38 PM	15165
Surr: 1,2-Dichloroethane-d4	112	0	70-130		%REC	1	9/8/2014 3:32:38 PM	15165
Surr: 4-Bromofluorobenzene	106	0	65.3-135		%REC	1	9/8/2014 3:32:38 PM	15165
Surr: Dibromofluoromethane	104	0	70-130		%REC	1	9/8/2014 3:32:38 PM	15165
Surr: Toluene-d8	98.3	0	70-130		%REC	1	9/8/2014 3:32:38 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.53	4.1		mg/Kg-dr	1	9/8/2014 4:13:12 PM	R21086
Surr: BFB	107	0	61.2-137		%REC	1	9/8/2014 4:13:12 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0112
Project: Kirtland AFB
Collection Date: 9/5/2014 1:55:00 PM
Lab ID: 1409275-010
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.0	11		mg/Kg-dr	1	9/6/2014 10:11:28 PM	15139
Motor Oil Range Organics (MRO)	ND	54	54		mg/Kg-dr	1	9/6/2014 10:11:28 PM	15139
Surr: DNOP	91.1	0	57.9-140		%REC	1	9/6/2014 10:11:28 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	8.9	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	11	0.12	0.28		mg/Kg-dr	1	9/9/2014 10:52:54 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Acenaphthylene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Aniline	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Anthracene	0.11	0.047	0.22	J	mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Benz(a)anthracene	0.35	0.059	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Benzo(a)pyrene	0.45	0.065	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Benzo(b)fluoranthene	0.72	0.074	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Benzo(g,h,i)perylene	0.76	0.066	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Benzo(k)fluoranthene	ND	0.082	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Bis(2-chloroethoxy)methane	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Bis(2-chloroethyl)ether	ND	0.087	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.040	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.073	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Bromophenyl phenyl ether	ND	0.055	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Butyl benzyl phthalate	ND	0.046	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Carbazole	0.073	0.049	0.22	J	mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Chloro-3-methylphenol	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Chloroaniline	ND	0.057	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Chloronaphthalene	ND	0.062	0.27		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Chlorophenol	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Chlorophenyl phenyl ether	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Chrysene	0.45	0.055	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Di-n-butyl phthalate	ND	0.049	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Di-n-octyl phthalate	ND	0.27	0.43		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Dibenz(a,h)anthracene	0.23	0.064	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Dibenzofuran	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
1,2-Dichlorobenzene	ND	0.042	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
1,3-Dichlorobenzene	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
1,4-Dichlorobenzene	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
3,3´-Dichlorobenzidine	ND	0.060	0.27		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0112
Project: Kirtland AFB
Collection Date: 9/5/2014 1:55:00 PM
Lab ID: 1409275-010
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.049	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Dimethyl phthalate	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4-Dichlorophenol	ND	0.067	0.43		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4-Dimethylphenol	ND	0.065	0.33		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.044	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4-Dinitrophenol	ND	0.076	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4-Dinitrotoluene	ND	0.080	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,6-Dinitrotoluene	ND	0.064	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Fluoranthene	0.58	0.049	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Fluorene	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Hexachlorobenzene	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Hexachlorobutadiene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Hexachlorocyclopentadiene	ND	0.070	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Hexachloroethane	ND	0.076	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Indeno(1,2,3-cd)pyrene	0.65	0.072	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Isophorone	ND	0.071	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Methylnaphthalene	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Methylphenol	ND	0.062	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
3+4-Methylphenol	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
N-Nitrosodi-n-propylamine	ND	0.072	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
N-Nitrosodimethylamine	ND	0.082	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
N-Nitrosodiphenylamine	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Naphthalene	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Nitroaniline	ND	0.052	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
3-Nitroaniline	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Nitroaniline	ND	0.052	0.43		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Nitrobenzene	ND	0.060	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2-Nitrophenol	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
4-Nitrophenol	ND	0.067	0.27		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Pentachlorophenol	ND	0.088	0.43		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Phenanthrene	0.24	0.039	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Phenol	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Pyrene	0.60	0.059	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Pyridine	ND	0.060	0.54		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
1,2,4-Trichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4,5-Trichlorophenol	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
2,4,6-Trichlorophenol	ND	0.059	0.22		mg/Kg-dr	1	9/8/2014 8:58:01 PM	15158
Surr: 2-Fluorophenol	73.3		21-111		%REC	1	9/8/2014 8:58:01 PM	15158
Surr: Phenol-d5	72.7		23.1-117		%REC	1	9/8/2014 8:58:01 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0112
Project: Kirtland AFB
Collection Date: 9/5/2014 1:55:00 PM
Lab ID: 1409275-010
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	75.3		22.7-88.9		%REC	1	9/8/2014 8:58:01 PM	15158
Surr: Nitrobenzene-d5	75.6		24.5-126		%REC	1	9/8/2014 8:58:01 PM	15158
Surr: 2-Fluorobiphenyl	77.8		21.2-129		%REC	1	9/8/2014 8:58:01 PM	15158
Surr: 4-Terphenyl-d14	78.0		39.4-107		%REC	1	9/8/2014 8:58:01 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Toluene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Ethylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Xylenes, Total	ND	0.00151	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2,4-Trimethylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,3,5-Trimethylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Naphthalene	ND	0.00151	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Acetone	0.00909	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Bromobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Bromodichloromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Bromoform	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Bromomethane	0.000861	0.000754	0.00377	J	mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
2-Butanone	ND	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Carbon tetrachloride	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Chlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Chloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Chloroform	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Chloromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
2-Chlorotoluene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Carbon disulfide	ND	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
4-Chlorotoluene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
cis-1,2-DCE	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
cis-1,3-Dichloropropene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Dibromochloromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Dibromomethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2-Dichlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,3-Dichlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,4-Dichlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Dichlorodifluoromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1-Dichloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0112
Project: Kirtland AFB
Collection Date: 9/5/2014 1:55:00 PM
Lab ID: 1409275-010
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2-Dichloropropane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,3-Dichloropropane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
2,2-Dichloropropane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1-Dichloropropene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Hexachlorobutadiene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Isopropylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
4-Isopropyltoluene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Methylene chloride	ND	0.00151	0.00377		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
n-Butylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
2-Hexanone	ND	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
n-Propylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
sec-Butylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Styrene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
4-Methyl-2-pentanone	ND	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
tert-Butylbenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Tetrachloroethene (PCE)	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
trans-1,2-DCE	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
trans-1,3-Dichloropropene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2,3-Trichlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2,4-Trichlorobenzene	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1,1-Trichloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,1,2-Trichloroethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Trichloroethene (TCE)	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Trichlorofluoromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
1,2,3-Trichloropropane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Vinyl chloride	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Vinyl acetate	ND	0.00754	0.00754		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Bromochloromethane	ND	0.000754	0.00151		mg/Kg-dr	1	9/8/2014 4:01:23 PM	15165
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	9/8/2014 4:01:23 PM	15165
Surr: 4-Bromofluorobenzene	92.3	0	65.3-135		%REC	1	9/8/2014 4:01:23 PM	15165
Surr: Dibromofluoromethane	103	0	70-130		%REC	1	9/8/2014 4:01:23 PM	15165
Surr: Toluene-d8	101	0	70-130		%REC	1	9/8/2014 4:01:23 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	2.0	0.52	4.0	J	mg/Kg-dr	1	9/8/2014 4:41:17 PM	R21086
Surr: BFB	105	0	61.2-137		%REC	1	9/8/2014 4:41:17 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0113
Project: Kirtland AFB
Collection Date: 9/5/2014 2:40:00 PM
Lab ID: 1409275-011
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	6.2	11		mg/Kg-dr	1	9/6/2014 10:32:52 PM	15139
Motor Oil Range Organics (MRO)	ND	56	56		mg/Kg-dr	1	9/6/2014 10:32:52 PM	15139
Surr: DNOP	90.4	0	57.9-140		%REC	1	9/6/2014 10:32:52 PM	15139
PERCENT MOISTURE							Analyst: **cadg**	
Percent Moisture	11	1.0	1.0		wt%	1	9/6/2014 3:45:00 PM	R21052
EPA METHOD 6010B: SOIL METALS							Analyst: **ELS**	
Lead	3.4	0.25	0.58		mg/Kg-dr	2	9/9/2014 11:07:54 AM	15173
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Acenaphthene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Acenaphthylene	ND	0.054	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Aniline	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Anthracene	ND	0.048	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Benz(a)anthracene	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Benzo(a)pyrene	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Benzo(b)fluoranthene	ND	0.076	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Benzo(g,h,i)perylene	ND	0.067	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Benzo(k)fluoranthene	ND	0.084	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Bis(2-chloroethoxy)methane	ND	0.075	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Bis(2-chloroethyl)ether	ND	0.089	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Bis(2-chloroisopropyl)ether	ND	0.041	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Bis(2-ethylhexyl)phthalate	ND	0.074	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Bromophenyl phenyl ether	ND	0.056	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Butyl benzyl phthalate	ND	0.047	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Carbazole	ND	0.050	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Chloro-3-methylphenol	ND	0.059	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Chloroaniline	ND	0.058	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Chloronaphthalene	ND	0.063	0.28		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Chlorophenol	ND	0.069	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Chlorophenyl phenyl ether	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Chrysene	ND	0.056	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Di-n-butyl phthalate	0.056	0.050	0.55	J	mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Di-n-octyl phthalate	ND	0.28	0.44		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Dibenz(a,h)anthracene	ND	0.066	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Dibenzofuran	ND	0.074	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
1,2-Dichlorobenzene	ND	0.043	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
1,3-Dichlorobenzene	ND	0.063	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
1,4-Dichlorobenzene	ND	0.069	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
3,3´-Dichlorobenzidine	ND	0.061	0.28		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0113
Project: Kirtland AFB
Collection Date: 9/5/2014 2:40:00 PM
Lab ID: 1409275-011
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Diethyl phthalate	ND	0.050	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Dimethyl phthalate	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4-Dichlorophenol	ND	0.068	0.44		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4-Dimethylphenol	ND	0.066	0.33		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4,6-Dinitro-2-methylphenol	ND	0.045	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4-Dinitrophenol	ND	0.078	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4-Dinitrotoluene	ND	0.081	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,6-Dinitrotoluene	ND	0.066	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Fluoranthene	ND	0.050	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Fluorene	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Hexachlorobenzene	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Hexachlorobutadiene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Hexachlorocyclopentadiene	ND	0.071	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Hexachloroethane	ND	0.078	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Indeno(1,2,3-cd)pyrene	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Isophorone	ND	0.073	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Methylnaphthalene	ND	0.066	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Methylphenol	ND	0.063	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
3+4-Methylphenol	ND	0.075	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
N-Nitrosodi-n-propylamine	ND	0.073	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
N-Nitrosodimethylamine	ND	0.083	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
N-Nitrosodiphenylamine	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Naphthalene	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Nitroaniline	ND	0.053	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
3-Nitroaniline	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Nitroaniline	ND	0.053	0.44		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Nitrobenzene	ND	0.062	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2-Nitrophenol	ND	0.061	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
4-Nitrophenol	ND	0.068	0.28		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Pentachlorophenol	ND	0.090	0.44		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Phenanthrene	ND	0.040	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Phenol	ND	0.065	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Pyrene	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Pyridine	ND	0.061	0.55		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
1,2,4-Trichlorobenzene	ND	0.064	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4,5-Trichlorophenol	ND	0.049	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
2,4,6-Trichlorophenol	ND	0.060	0.22		mg/Kg-dr	1	9/8/2014 7:59:46 PM	15158
Surr: 2-Fluorophenol	60.4		21-111		%REC	1	9/8/2014 7:59:46 PM	15158
Surr: Phenol-d5	65.0		23.1-117		%REC	1	9/8/2014 7:59:46 PM	15158

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0113
Project: Kirtland AFB
Collection Date: 9/5/2014 2:40:00 PM
Lab ID: 1409275-011
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: SEMIVOLATILES							Analyst: **DAM**	
Surr: 2,4,6-Tribromophenol	63.8		22.7-88.9		%REC	1	9/8/2014 7:59:46 PM	15158
Surr: Nitrobenzene-d5	62.4		24.5-126		%REC	1	9/8/2014 7:59:46 PM	15158
Surr: 2-Fluorobiphenyl	67.9		21.2-129		%REC	1	9/8/2014 7:59:46 PM	15158
Surr: 4-Terphenyl-d14	71.4		39.4-107		%REC	1	9/8/2014 7:59:46 PM	15158
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
Benzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Toluene	0.00112	0.000743	0.00149	J	mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Ethylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Xylenes, Total	ND	0.00149	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Methyl tert-butyl ether (MTBE)	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2,4-Trimethylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,3,5-Trimethylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2-Dichloroethane (EDC)	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2-Dibromoethane (EDB)	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Naphthalene	ND	0.00149	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Acetone	0.0122	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Bromobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Bromodichloromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Bromoform	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Bromomethane	0.000919	0.000743	0.00372	J	mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
2-Butanone	ND	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Carbon tetrachloride	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Chlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Chloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Chloroform	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Chloromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
2-Chlorotoluene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Carbon disulfide	ND	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
4-Chlorotoluene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
cis-1,2-DCE	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
cis-1,3-Dichloropropene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2-Dibromo-3-chloropropane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Dibromochloromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Dibromomethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2-Dichlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,3-Dichlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,4-Dichlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Dichlorodifluoromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1-Dichloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0113
Project: Kirtland AFB
Collection Date: 9/5/2014 2:40:00 PM
Lab ID: 1409275-011
Matrix: MEOH (SOIL)
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
METHOD 8260B/5035LOW: VOLATILES							Analyst: **cadg**	
1,1-Dichloroethene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2-Dichloropropane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,3-Dichloropropane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
2,2-Dichloropropane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1-Dichloropropene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Hexachlorobutadiene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Isopropylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
4-Isopropyltoluene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Methylene chloride	ND	0.00149	0.00372		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
n-Butylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
2-Hexanone	ND	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
n-Propylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
sec-Butylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Styrene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
4-Methyl-2-pentanone	ND	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
tert-Butylbenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1,1,2-Tetrachloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1,2,2-Tetrachloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Tetrachloroethene (PCE)	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
trans-1,2-DCE	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
trans-1,3-Dichloropropene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2,3-Trichlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2,4-Trichlorobenzene	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1,1-Trichloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,1,2-Trichloroethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Trichloroethene (TCE)	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Trichlorofluoromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
1,2,3-Trichloropropane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Vinyl chloride	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Vinyl acetate	ND	0.00743	0.00743		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Bromochloromethane	ND	0.000743	0.00149		mg/Kg-dr	1	9/8/2014 4:30:07 PM	15165
Surr: 1,2-Dichloroethane-d4	110	0	70-130		%REC	1	9/8/2014 4:30:07 PM	15165
Surr: 4-Bromofluorobenzene	98.5	0	65.3-135		%REC	1	9/8/2014 4:30:07 PM	15165
Surr: Dibromofluoromethane	99.4	0	70-130		%REC	1	9/8/2014 4:30:07 PM	15165
Surr: Toluene-d8	104	0	70-130		%REC	1	9/8/2014 4:30:07 PM	15165
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.55	4.3		mg/Kg-dr	1	9/8/2014 5:09:22 PM	R21086
Surr: BFB	115	0	61.2-137		%REC	1	9/8/2014 5:09:22 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409275-012
Matrix: MEOH BLAN
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
Benzene	ND	0.0055	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Toluene	ND	0.0055	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Ethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Methyl tert-butyl ether (MTBE)	ND	0.019	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2,4-Trimethylbenzene	ND	0.0061	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,3,5-Trimethylbenzene	ND	0.0053	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2-Dichloroethane (EDC)	ND	0.0082	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2-Dibromoethane (EDB)	ND	0.0057	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Naphthalene	ND	0.0042	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Acetone	ND	0.049	0.75		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Bromobenzene	ND	0.0078	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Bromodichloromethane	ND	0.0064	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Bromoform	ND	0.0047	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Bromomethane	0.013	0.0071	0.15	J	mg/Kg	1	9/8/2014 5:37:24 PM	R21086
2-Butanone	ND	0.023	0.50		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Carbon disulfide	ND	0.013	0.50		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Carbon tetrachloride	ND	0.0070	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Chlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Chloroethane	ND	0.0083	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Chloroform	ND	0.017	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Chloromethane	ND	0.0046	0.15		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
2-Chlorotoluene	ND	0.0044	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
4-Chlorotoluene	ND	0.014	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
cis-1,2-DCE	ND	0.0046	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
cis-1,3-Dichloropropene	ND	0.0062	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2-Dibromo-3-chloropropane	ND	0.0068	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Dibromochloromethane	ND	0.0049	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Dibromomethane	ND	0.0057	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,3-Dichlorobenzene	ND	0.0060	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,4-Dichlorobenzene	ND	0.0059	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Dichlorodifluoromethane	ND	0.012	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1-Dichloroethane	ND	0.0034	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1-Dichloroethene	ND	0.0040	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2-Dichloropropane	ND	0.0044	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,3-Dichloropropane	ND	0.0094	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
2,2-Dichloropropane	ND	0.0054	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1-Dichloropropene	ND	0.0077	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Hexachlorobutadiene	ND	0.0073	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: MEOH BLANK
Project: Kirtland AFB
Collection Date:
Lab ID: 1409275-012
Matrix: MEOH BLAN
Received Date: 9/5/2014 4:30:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260B: VOLATILES							Analyst: **RAA**	
2-Hexanone	ND	0.024	0.50		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Isopropylbenzene	ND	0.0040	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
4-Isopropyltoluene	ND	0.0045	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
4-Methyl-2-pentanone	ND	0.019	0.50		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Methylene chloride	0.049	0.0047	0.15	J	mg/Kg	1	9/8/2014 5:37:24 PM	R21086
n-Butylbenzene	ND	0.0044	0.15		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
n-Propylbenzene	ND	0.0050	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
sec-Butylbenzene	ND	0.0048	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Styrene	ND	0.0039	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
tert-Butylbenzene	ND	0.0055	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1,1,2-Tetrachloroethane	ND	0.0060	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1,2,2-Tetrachloroethane	ND	0.0083	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Tetrachloroethene (PCE)	ND	0.0061	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
trans-1,2-DCE	ND	0.0056	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
trans-1,3-Dichloropropene	ND	0.0069	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2,3-Trichlorobenzene	ND	0.0056	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2,4-Trichlorobenzene	ND	0.0055	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1,1-Trichloroethane	ND	0.0050	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,1,2-Trichloroethane	ND	0.0060	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Trichloroethene (TCE)	ND	0.0069	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Trichlorofluoromethane	ND	0.0052	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
1,2,3-Trichloropropane	ND	0.0076	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Vinyl chloride	ND	0.0041	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Xylenes, Total	ND	0.015	0.10		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Bromochloromethane	ND	0.023	0.050		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Vinyl acetate	ND	0.50	0.50		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Surr: Dibromofluoromethane	80.5	0	70-130		%REC	1	9/8/2014 5:37:24 PM	R21086
Surr: 1,2-Dichloroethane-d4	79.9	0	70-130		%REC	1	9/8/2014 5:37:24 PM	R21086
Surr: Toluene-d8	97.5	0	70-130		%REC	1	9/8/2014 5:37:24 PM	R21086
Surr: 4-Bromofluorobenzene	84.4	0	70-130		%REC	1	9/8/2014 5:37:24 PM	R21086
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	0.65	5.0		mg/Kg	1	9/8/2014 5:37:24 PM	R21086
Surr: BFB	108	0	61.2-137		%REC	1	9/8/2014 5:37:24 PM	R21086

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **MB-15139**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **15139**	RunNo: **21040**
Prep Date: **9/5/2014**	Analysis Date: **9/6/2014**	SeqNo: **612324** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.1	57.9	140			

Sample ID **LCS-15139**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **15139**	RunNo: **21040**
Prep Date: **9/5/2014**	Analysis Date: **9/6/2014**	SeqNo: **612325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	68.6	130			
Surr: DNOP	4.1		5.000		81.1	57.9	140			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613721** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
Acetone	0.057	0.75								J
Bromobenzene	ND	0.050								
Bromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.050								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.050								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613721** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	0.036	0.15								J
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: Dibromofluoromethane	0.48		0.5000		95.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.7	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613722** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	70	130			
Toluene	1.1	0.050	1.000	0	109	70	130			
Chlorobenzene	0.98	0.050	1.000	0	98.1	70	130			
1,1-Dichloroethene	1.2	0.050	1.000	0	122	60.5	160			
Trichloroethene (TCE)	1.2	0.050	1.000	0	119	58.8	139			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613722** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.48		0.5000		95.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.2	70	130			
Surr: Toluene-d8	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.7	70	130			

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date:	Analysis Date: **9/12/2014**	SeqNo: **616355** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
Naphthalene	ND	0.10								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
tert-Butylbenzene	ND	0.050								
Surr: Dibromofluoromethane	0.47		0.5000		93.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.48		0.5000		95.7	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.9	70	130			

Sample ID **100nglcs200nganne**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date:	Analysis Date: **9/12/2014**	SeqNo: **616356** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.48		0.5000		95.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.6	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.7	70	130			

Sample ID **mb-15192**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date: **9/9/2014**	Analysis Date: **9/12/2014**	SeqNo: **617165** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15192**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **PBS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date: **9/9/2014**	Analysis Date: **9/12/2014**	SeqNo: **617165** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.050								
Naphthalene	ND	0.10								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
n-Butylbenzene	ND	0.15								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
tert-Butylbenzene	ND	0.050								
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: Toluene-d8	0.46		0.5000		92.9	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		77.3	70	130			

Sample ID **lcs-15192**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **LCSS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date: **9/9/2014**	Analysis Date: **9/12/2014**	SeqNo: **617166** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.48		0.5000		96.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.5000		79.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15165**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15165**	RunNo: **21079**
Prep Date: **9/8/2014**	Analysis Date: **9/8/2014**	SeqNo: **613217** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00200								
Toluene	ND	0.00200								
Ethylbenzene	ND	0.00200								
Xylenes, Total	ND	0.00200								
Methyl tert-butyl ether (MTBE)	ND	0.00200								
1,2,4-Trimethylbenzene	ND	0.00200								
1,3,5-Trimethylbenzene	ND	0.00200								
1,2-Dichloroethane (EDC)	ND	0.00200								
1,2-Dibromoethane (EDB)	ND	0.00200								
Naphthalene	ND	0.00200								
Acetone	ND	0.0100								
Bromobenzene	ND	0.00200								
Bromodichloromethane	ND	0.00200								
Bromoform	ND	0.00200								
Bromomethane	0.00118	0.00200								J
2-Butanone	ND	0.0100								
Carbon tetrachloride	ND	0.00200								
Chlorobenzene	ND	0.00200								
Chloroethane	ND	0.00200								
Chloroform	ND	0.00200								
Chloromethane	ND	0.00200								
2-Chlorotoluene	ND	0.00200								
Carbon disulfide	ND	0.0100								
4-Chlorotoluene	ND	0.00200								
cis-1,2-DCE	ND	0.00200								
cis-1,3-Dichloropropene	ND	0.00200								
1,2-Dibromo-3-chloropropane	ND	0.00200								
Dibromochloromethane	ND	0.00200								
Dibromomethane	ND	0.00200								
1,2-Dichlorobenzene	ND	0.00200								
1,3-Dichlorobenzene	ND	0.00200								
1,4-Dichlorobenzene	ND	0.00200								
Dichlorodifluoromethane	ND	0.00200								
1,1-Dichloroethane	ND	0.00200								
1,1-Dichloroethene	ND	0.00200								
1,2-Dichloropropane	ND	0.00200								
1,3-Dichloropropane	ND	0.00200								
2,2-Dichloropropane	ND	0.00200								
1,1-Dichloropropene	ND	0.00200								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15165**	SampType: **MBLK**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **PBS**	Batch ID: **15165**	RunNo: **21079**
Prep Date: **9/8/2014**	Analysis Date: **9/8/2014**	SeqNo: **613217** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.00200								
Isopropylbenzene	ND	0.00200								
4-Isopropyltoluene	ND	0.00200								
Methylene chloride	ND	0.00200								
n-Butylbenzene	ND	0.00200								
2-Hexanone	ND	0.0100								
n-Propylbenzene	ND	0.00200								
sec-Butylbenzene	ND	0.00200								
Styrene	ND	0.00200								
4-Methyl-2-pentanone	ND	0.0100								
tert-Butylbenzene	ND	0.00200								
1,1,1,2-Tetrachloroethane	ND	0.00200								
1,1,2,2-Tetrachloroethane	ND	0.00200								
Tetrachloroethene (PCE)	ND	0.00200								
trans-1,2-DCE	ND	0.00200								
trans-1,3-Dichloropropene	ND	0.00200								
1,2,3-Trichlorobenzene	ND	0.00200								
1,2,4-Trichlorobenzene	ND	0.00200								
1,1,1-Trichloroethane	ND	0.00200								
1,1,2-Trichloroethane	ND	0.00200								
Trichloroethene (TCE)	ND	0.00200								
Trichlorofluoromethane	ND	0.00200								
1,2,3-Trichloropropane	ND	0.00200								
Vinyl chloride	ND	0.00200								
mp-Xylenes	ND	0.00100								
o-Xylene	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.0200		0.02000		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.0217		0.02000		109	65.3	135			
Surr: Dibromofluoromethane	0.0196		0.02000		97.9	70	130			
Surr: Toluene-d8	0.0212		0.02000		106	70	130			

Sample ID **lcs-15165**	SampType: **LCS**	TestCode: **Method 8260B/5035LOW: VOLATILES**
Client ID: **LCSS**	Batch ID: **15165**	RunNo: **21079**
Prep Date: **9/8/2014**	Analysis Date: **9/8/2014**	SeqNo: **613219** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00505	0.00200	0.005000	0	101	70	130			
Toluene	0.00521	0.00200	0.005000	0	104	70	130			
Chlorobenzene	0.00490	0.00200	0.005000	0	98.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**lcs-15165**	SampType:	**LCS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**LCSS**	Batch ID:	**15165**		RunNo:	**21079**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/8/2014**		SeqNo:	**613219**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.00424	0.00200	0.005000	0	84.8	70	130			
Trichloroethene (TCE)	0.00478	0.00200	0.005000	0	95.5	61.6	131			
Surr: 1,2-Dichloroethane-d4	0.0211		0.02000		106	70	130			
Surr: 4-Bromofluorobenzene	0.0216		0.02000		108	65.3	135			
Surr: Dibromofluoromethane	0.0207		0.02000		103	70	130			
Surr: Toluene-d8	0.0206		0.02000		103	70	130			

Sample ID	**1409275-002ams**	SampType:	**MS**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0073**	Batch ID:	**15165**		RunNo:	**21079**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/8/2014**		SeqNo:	**613223**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00292	0.00142	0.003556	0	82.1	70	130			
Toluene	0.00283	0.00142	0.003556	0	79.5	70	130			
Chlorobenzene	0.00285	0.00142	0.003556	0	80.2	70	130			
1,1-Dichloroethene	0.00263	0.00142	0.003556	0	73.9	70	130			
Trichloroethene (TCE)	0.00305	0.00142	0.003556	0	85.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.0159		0.01422		112	70	130			
Surr: 4-Bromofluorobenzene	0.0147		0.01422		104	65.3	135			
Surr: Dibromofluoromethane	0.0151		0.01422		106	70	130			
Surr: Toluene-d8	0.0137		0.01422		96.6	70	130			

Sample ID	**1409275-002amsd**	SampType:	**MSD**		TestCode:	**Method 8260B/5035LOW: VOLATILES**				
Client ID:	**FFOR-CF-0073**	Batch ID:	**15165**		RunNo:	**21079**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/8/2014**		SeqNo:	**613224**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00292	0.00143	0.003574	0	81.6	70	130	0.0780	20	
Toluene	0.00292	0.00143	0.003574	0	81.8	70	130	3.29	20	
Chlorobenzene	0.00285	0.00143	0.003574	0	79.8	70	130	0.0331	20	
1,1-Dichloroethene	0.00258	0.00143	0.003574	0	72.1	70	130	1.96	20	
Trichloroethene (TCE)	0.00288	0.00143	0.003574	0	80.7	70	130	5.62	20	
Surr: 1,2-Dichloroethane-d4	0.0156		0.01429		109	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.0146		0.01429		102	65.3	135	0	0	
Surr: Dibromofluoromethane	0.0147		0.01429		103	70	130	0	0	
Surr: Toluene-d8	0.0140		0.01429		97.7	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15158**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Aniline	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.50								
4-Bromophenyl phenyl ether	ND	0.20								
Butyl benzyl phthalate	ND	0.20								
Carbazole	ND	0.20								
4-Chloro-3-methylphenol	ND	0.50								
4-Chloroaniline	ND	0.50								
2-Chloronaphthalene	ND	0.25								
2-Chlorophenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
Chrysene	ND	0.20								
Di-n-butyl phthalate	0.095	0.50								J
Di-n-octyl phthalate	ND	0.40								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.25								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
2,4-Dichlorophenol	ND	0.40								
2,4-Dimethylphenol	ND	0.30								
4,6-Dinitro-2-methylphenol	ND	0.50								
2,4-Dinitrophenol	ND	0.50								
2,4-Dinitrotoluene	ND	0.50								
2,6-Dinitrotoluene	ND	0.50								
Fluoranthene	ND	0.20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15158**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	ND	0.20								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Isophorone	ND	0.50								
2-Methylnaphthalene	ND	0.20								
2-Methylphenol	ND	0.50								
3+4-Methylphenol	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Naphthalene	ND	0.20								
2-Nitroaniline	ND	0.20								
3-Nitroaniline	ND	0.20								
4-Nitroaniline	ND	0.40								
Nitrobenzene	ND	0.50								
2-Nitrophenol	ND	0.20								
4-Nitrophenol	ND	0.25								
Pentachlorophenol	ND	0.40								
Phenanthrene	ND	0.20								
Phenol	ND	0.20								
Pyrene	ND	0.20								
Pyridine	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.20								
2,4,5-Trichlorophenol	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
Surr: 2-Fluorophenol	2.4		3.330		72.6	21	111			
Surr: Phenol-d5	2.4		3.330		73.0	23.1	117			
Surr: 2,4,6-Tribromophenol	2.4		3.330		71.3	22.7	88.9			
Surr: Nitrobenzene-d5	1.4		1.670		83.3	24.5	126			
Surr: 2-Fluorobiphenyl	1.3		1.670		76.0	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		74.8	39.4	107			

Sample ID **lcs-15158**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15158**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS**	Batch ID: **15158**	RunNo: **21082**
Prep Date: **9/7/2014**	Analysis Date: **9/8/2014**	SeqNo: **613392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.1	0.20	1.670	0	66.0	50.7	110			
4-Chloro-3-methylphenol	2.4	0.50	3.330	0	73.1	47.8	107			
2-Chlorophenol	2.2	0.20	3.330	0	64.7	45.7	108			
1,4-Dichlorobenzene	0.99	0.20	1.670	0	59.1	46.1	112			
2,4-Dinitrotoluene	0.99	0.50	1.670	0	59.3	44.9	114			
N-Nitrosodi-n-propylamine	1.0	0.20	1.670	0	61.7	38.7	128			
4-Nitrophenol	2.5	0.25	3.330	0	75.7	40.2	103			
Pentachlorophenol	1.9	0.40	3.330	0	57.0	32.9	94			
Phenol	2.2	0.20	3.330	0	66.7	44.1	109			
Pyrene	1.1	0.20	1.670	0	66.9	51.9	109			
1,2,4-Trichlorobenzene	1.1	0.20	1.670	0	65.8	49.5	115			
Surr: 2-Fluorophenol	2.1		3.330		61.6	21	111			
Surr: Phenol-d5	2.1		3.330		62.9	23.1	117			
Surr: 2,4,6-Tribromophenol	2.3		3.330		68.9	22.7	88.9			
Surr: Nitrobenzene-d5	1.2		1.670		70.0	24.5	126			
Surr: 2-Fluorobiphenyl	1.2		1.670		72.5	21.2	129			
Surr: 4-Terphenyl-d14	1.2		1.670		73.2	39.4	107			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15163**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.1		1.460		74.2	27	106			
Surr: Benzo(e)pyrene	0.25		0.3300		74.8	34.7	131			

Sample ID **lcs-15163**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.020	0.3300	0	76.1	50.1	116			
1-Methylnaphthalene	0.27	0.020	0.3300	0	82.6	50.8	121			
2-Methylnaphthalene	0.25	0.020	0.3300	0	77.1	50.4	120			
Acenaphthylene	0.25	0.020	0.3300	0	75.2	53	112			
Acenaphthene	0.27	0.020	0.3300	0	81.6	51.4	112			
Fluorene	0.26	0.020	0.3300	0	77.7	51	116			
Phenanthrene	0.26	0.020	0.3300	0	79.7	46.3	120			
Anthracene	0.27	0.020	0.3300	0	82.2	46.4	118			
Fluoranthene	0.27	0.020	0.3300	0	82.3	46.4	123			
Pyrene	0.25	0.020	0.3300	0	76.7	43.3	122			
Benz(a)anthracene	0.26	0.020	0.3300	0	78.2	44.3	118			
Chrysene	0.25	0.020	0.3300	0	75.4	45.5	116			
Benzo(b)fluoranthene	0.25	0.020	0.3300	0	75.1	50.5	123			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15163**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.25	0.020	0.3300	0	74.7	49.7	117			
Benzo(a)pyrene	0.25	0.020	0.3300	0	74.8	50.8	111			
Dibenz(a,h)anthracene	0.29	0.020	0.3300	0	87.2	49.8	127			
Benzo(g,h,i)perylene	0.27	0.020	0.3300	0	82.6	46.4	122			
Indeno(1,2,3-cd)pyrene	0.27	0.020	0.3300	0	81.0	50.1	120			
Surr: N-hexadecane	1.0		1.460		70.2	27	106			
Surr: Benzo(e)pyrene	0.27		0.3300		80.7	34.7	131			

Sample ID **1409275-007ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0084**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.24	0.020	0.3287	0	73.1	42.6	115			
1-Methylnaphthalene	0.24	0.020	0.3287	0	73.2	42.4	122			
2-Methylnaphthalene	0.23	0.020	0.3287	0	71.2	45.2	120			
Acenaphthylene	0.24	0.020	0.3287	0	73.1	39.7	116			
Acenaphthene	0.23	0.020	0.3287	0	69.3	41.4	119			
Fluorene	0.25	0.020	0.3287	0	74.6	44.2	123			
Phenanthrene	0.25	0.020	0.3287	0	76.7	48	120			
Anthracene	0.24	0.020	0.3287	0	74.0	43.8	120			
Fluoranthene	0.25	0.020	0.3287	0	74.7	54	125			
Pyrene	0.23	0.020	0.3287	0	71.3	55	120			
Benz(a)anthracene	0.23	0.020	0.3287	0	71.4	50.9	125			
Chrysene	0.23	0.020	0.3287	0.007321	68.6	45.3	127			
Benzo(b)fluoranthene	0.29	0.020	0.3287	0.03461	76.8	49.3	131			
Benzo(k)fluoranthene	0.24	0.020	0.3287	0	71.5	50.6	127			
Benzo(a)pyrene	0.24	0.020	0.3287	0	74.4	53.8	117			
Dibenz(a,h)anthracene	0.28	0.020	0.3287	0.008652	82.6	52	130			
Benzo(g,h,i)perylene	0.29	0.020	0.3287	0.02529	80.5	49.4	123			
Indeno(1,2,3-cd)pyrene	0.29	0.020	0.3287	0.02463	80.9	49.5	124			
Surr: N-hexadecane	0.93		1.454		63.7	27	106			
Surr: Benzo(e)pyrene	0.26		0.3287		79.6	34.7	131			

Sample ID **1409275-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0084**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3313	0	80.2	42.6	115	10.0	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409275-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0084**	Batch ID: **15163**	RunNo: **21107**
Prep Date: **9/8/2014**	Analysis Date: **9/9/2014**	SeqNo: **614191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.28	0.020	0.3313	0	84.7	42.4	122	15.4	20	
2-Methylnaphthalene	0.27	0.020	0.3313	0	80.4	45.2	120	12.9	21.2	
Acenaphthylene	0.29	0.020	0.3313	0	88.0	39.7	116	19.2	20	
Acenaphthene	0.28	0.020	0.3313	0	85.7	41.4	119	21.9	20.5	R
Fluorene	0.29	0.020	0.3313	0	86.5	44.2	123	15.5	20	
Phenanthrene	0.30	0.020	0.3313	0	91.5	48	120	18.5	22	
Anthracene	0.30	0.020	0.3313	0	90.8	43.8	120	21.1	26.6	
Fluoranthene	0.31	0.020	0.3313	0	93.4	54	125	23.0	23.7	
Pyrene	0.30	0.020	0.3313	0	89.8	55	120	23.7	29.3	
Benz(a)anthracene	0.29	0.020	0.3313	0	87.0	50.9	125	20.4	25.4	
Chrysene	0.29	0.020	0.3313	0.007321	86.0	45.3	127	22.6	27.6	
Benzo(b)fluoranthene	0.32	0.020	0.3313	0.03461	86.5	49.3	131	11.2	20	
Benzo(k)fluoranthene	0.30	0.020	0.3313	0	89.1	50.6	127	22.7	31.3	
Benzo(a)pyrene	0.30	0.020	0.3313	0	89.5	53.8	117	19.2	22.1	
Dibenz(a,h)anthracene	0.33	0.020	0.3313	0.008652	97.3	52	130	16.6	21.2	
Benzo(g,h,i)perylene	0.33	0.020	0.3313	0.02529	92.9	49.4	123	13.9	25.9	
Indeno(1,2,3-cd)pyrene	0.33	0.020	0.3313	0.02463	93.6	49.5	124	14.1	20.4	
Surr: N-hexadecane	1.0		1.466		71.1	27	106	0	0	
Surr: Benzo(e)pyrene	0.27		0.3313		80.4	34.7	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**MB-15173**	SampType:	**MBLK**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**PBS**	Batch ID:	**15173**		RunNo:	**21089**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/9/2014**		SeqNo:	**613811**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								

Sample ID	**LCS-15173**	SampType:	**LCS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**LCSS**	Batch ID:	**15173**		RunNo:	**21089**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/9/2014**		SeqNo:	**613812**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	24	0.25	25.00	0	94.7	80	120			

Sample ID	**1409275-004AMS**	SampType:	**MS**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0075**	Batch ID:	**15173**		RunNo:	**21089**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/9/2014**		SeqNo:	**613837**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	25	0.26	26.46	7.554	67.5	75	125			S

Sample ID	**1409275-004AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 6010B: Soil Metals**				
Client ID:	**FFOR-CF-0075**	Batch ID:	**15173**		RunNo:	**21089**				
Prep Date:	**9/8/2014**	Analysis Date:	**9/9/2014**		SeqNo:	**613838**	Units:	**mg/Kg-dry**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	27	0.28	27.66	7.554	70.5	75	125	6.25	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.3	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613763** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			
Surr: BFB	480		500.0		95.9	61.2	137			

Sample ID **1409275-002a ms g**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0073**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613777** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.2	21.11	0	113	58	134			
Surr: BFB	460		422.1		109	61.2	137			

Sample ID **1409275-002a msd g**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **FFOR-CF-0073**	Batch ID: **R21086**	RunNo: **21086**
Prep Date:	Analysis Date: **9/8/2014**	SeqNo: **613778** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.2	21.11	0	107	58	134	5.59	20	
Surr: BFB	470		422.1		112	61.2	137	0	0	

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date:	Analysis Date: **9/12/2014**	SeqNo: **616331** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.2	61.2	137			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R21173**	RunNo: **21173**
Prep Date:	Analysis Date: **9/12/2014**	SeqNo: **616332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409275**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**R21173**	RunNo:	**21173**					
Prep Date:		Analysis Date:	**9/12/2014**	SeqNo:	**616332**	Units:	**mg/Kg**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		29	5.0	25.00	0	116	80	120			
Surr: BFB		500		500.0		100	61.2	137			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409275** RcptNo: **1**

Received by/date: C.S. 09/05/14

Logged By: **Ashley Gallegos** **9/5/2014 4:30:00 PM** AG

Completed By: **Ashley Gallegos** **9/5/2014 4:40:04 PM** AG

Reviewed By: 09/05/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.1	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-22

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 05 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/5/14 Time: 1600	1. Received By (Signature/Affiliation)	Date: 9/5/14 Time: 1600
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) Celina Sanchez	Temp at lab: 11.1°C Date: 09/05/14 Time: 1630
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: FFOR-CF-0072 = 1,357 ppm, FFOR-CF-0073 = 43.1 ppm, FFOR-CF-0084 and FFOR-CF-0085 = 13.2 ppm, FFOR-CF-0074 = 2,698 ppm, FFOR-CF-0075 = 9.7 ppm, FFOR-CF-0076 and FFOR-CF-0077 = 33.3 ppm, FFOR-CF-0111 = 4.4 ppm, FFOR-CF-0112 = 7.0 ppm, FFOR-CF-0113 = 19.3 ppm

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
X	FFOR-CF-0072	FFOR-EXC-66-DS-FFOR-CF-0072-REG	05 SEP 2014	08:10	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		1409275
X	FFOR-CF-0072	FFOR-EXC-66-DS-FFOR-CF-0072-REG	05 SEP 2014	08:10	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-00
X	FFOR-CF-0073	FFOR-EXC-67-DS-FFOR-CF-0073-REG	05 SEP 2014	09:05	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-00
X	FFOR-CF-0073	FFOR-EXC-67-DS-FFOR-CF-0073-REG	05 SEP 2014	09:05	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-00
X	FFOR-CF-0074	FFOR-EXC-68-DS-FFOR-CF-0074-REG	05 SEP 2014	11:16	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B,			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-22

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								VOCs by SW846 8260B					1409275
X	FFOR-CF-0074	FFOR-EXC-68-DS-FFOR-CF-0074-REG	05 SEP 2014	11:16	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-003
X	FFOR-CF-0075	FFOR-EXC-69-DS-FFOR-CF-0075-REG	05 SEP 2014	13:19	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		-004
X	FFOR-CF-0075	FFOR-EXC-69-DS-FFOR-CF-0075-REG	05 SEP 2014	13:19	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		
X	FFOR-CF-0076	FFOR-EXC-70-DS-FFOR-CF-0076-REG	05 SEP 2014	13:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-005
X	FFOR-CF-0076	FFOR-EXC-70-DS-FFOR-CF-0076-REG	05 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0077	FFOR-EXC-70-DS-FFOR-CF-0077-FD	05 SEP 2014	13:29	5 g TerraCore	1	None except cool to 4 C	TPH as Gasoline by SW846 8015B, VOCs by SW846 8260B			N		-006
X	FFOR-CF-0077	FFOR-EXC-70-DS-FFOR-CF-0077-FD	05 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	Lead only by SW846 6010B, TPH as Diesel by SW846 8015B, SVOCs by SW846 8270D			N		
X	FFOR-CF-0084	FFOR-EXCSO-07-SO-FFOR-CF-0084-RE	05 SEP 2014	09:13	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-007
X	FFOR-CF-0085	FFOR-EXCSO-07-SO-FFOR-CF-0085-FI	05 SEP 2014	09:13	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-008
X	FFOR-CF-0111	FFOR-EXC-71-DS-FFOR-CF-0111-REG	9/5/14 1346		5g terraCore	1	"	TPH GRO, VOCs			N		-009
X	"	"	9/5/14 1346		8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		-010
X	FFOR-CF-0112	FFOR-EXC-72-DS-FFOR-CF-0112-Reg	9/5/14 1355		5g terraCore	1	"	TPH GRO, VOCs			N		-011
X	"	"	9/5/14 1355		8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		
X	FFOR-CF-0113	FFOR-EXC-73-DS-FFOR-CF-0113-Reg	9/5/14 1440		5g terraCore	1	"	TPH GRO, VOCs			N		-013
X	"	"	9/5/14 1440		8 oz CWM	1	"	Lead 6010B, TPH DRO, SVOCs			N		

MeOH Blank -012

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 12, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409339

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/8/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0086
Project: Kirtland AFB
Collection Date: 9/8/2014 9:38:00 AM
Lab ID: 1409339-001
Matrix: SOIL
Received Date: 9/8/2014 4:53:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0056	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
1-Methylnaphthalene	ND	0.0056	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Fluorene	ND	0.0072	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Phenanthrene	ND	0.0057	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Anthracene	ND	0.0060	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Fluoranthene	ND	0.0062	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Pyrene	ND	0.0049	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Benz(a)anthracene	ND	0.0051	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Chrysene	ND	0.0036	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Benzo(b)fluoranthene	ND	0.0065	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Benzo(a)pyrene	ND	0.0076	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Dibenz(a,h)anthracene	ND	0.0073	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Benzo(g,h,i)perylene	ND	0.0058	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Indeno(1,2,3-cd)pyrene	ND	0.0068	0.020		mg/Kg	1	9/10/2014 11:15:24 AM	15197
Surr: N-hexadecane	54.5	0	27-106		%REC	1	9/10/2014 11:15:24 AM	15197
Surr: Benzo(e)pyrene	58.2	0	34.7-131		%REC	1	9/10/2014 11:15:24 AM	15197

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0087
Project: Kirtland AFB
Collection Date: 9/8/2014 11:12:00 AM
Lab ID: 1409339-002
Matrix: SOIL
Received Date: 9/8/2014 4:53:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.011	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
1-Methylnaphthalene	ND	0.011	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
2-Methylnaphthalene	ND	0.012	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Acenaphthylene	ND	0.012	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Acenaphthene	ND	0.013	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Fluorene	ND	0.014	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Phenanthrene	ND	0.011	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Anthracene	ND	0.012	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Fluoranthene	0.018	0.012	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Pyrene	0.021	0.0098	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Benz(a)anthracene	0.021	0.010	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Chrysene	0.037	0.0072	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Benzo(b)fluoranthene	0.065	0.013	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Benzo(k)fluoranthene	ND	0.016	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Benzo(a)pyrene	0.032	0.015	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Dibenz(a,h)anthracene	ND	0.015	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Benzo(g,h,i)perylene	0.057	0.012	0.040		mg/Kg	1	9/10/2014 12:24:58 PM	15197
Indeno(1,2,3-cd)pyrene	0.033	0.014	0.040	J	mg/Kg	1	9/10/2014 12:24:58 PM	15197
Surr: N-hexadecane	45.6	0	27-106		%REC	1	9/10/2014 12:24:58 PM	15197
Surr: Benzo(e)pyrene	61.6	0	34.7-131		%REC	1	9/10/2014 12:24:58 PM	15197

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0088
Project: Kirtland AFB
Collection Date: 9/8/2014 1:29:00 PM
Lab ID: 1409339-003
Matrix: SOIL
Received Date: 9/8/2014 4:53:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	0.010	0.0056	0.020	J	mg/Kg	1	9/10/2014 12:48:09 PM	15197
1-Methylnaphthalene	0.33	0.0056	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
2-Methylnaphthalene	ND	0.0059	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Fluorene	0.024	0.0072	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Phenanthrene	0.069	0.0057	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Anthracene	0.019	0.0060	0.020	J	mg/Kg	1	9/10/2014 12:48:09 PM	15197
Fluoranthene	0.13	0.0062	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Pyrene	0.15	0.0049	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Benz(a)anthracene	0.091	0.0051	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Chrysene	0.11	0.0036	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Benzo(b)fluoranthene	0.20	0.0065	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Benzo(k)fluoranthene	0.044	0.0081	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Benzo(a)pyrene	0.081	0.0076	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Dibenz(a,h)anthracene	0.011	0.0073	0.020	J	mg/Kg	1	9/10/2014 12:48:09 PM	15197
Benzo(g,h,i)perylene	0.034	0.0058	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Indeno(1,2,3-cd)pyrene	0.038	0.0068	0.020		mg/Kg	1	9/10/2014 12:48:09 PM	15197
Surr: N-hexadecane	46.5	0	27-106		%REC	1	9/10/2014 12:48:09 PM	15197
Surr: Benzo(e)pyrene	70.3	0	34.7-131		%REC	1	9/10/2014 12:48:09 PM	15197

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409339**

12-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15197**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614830** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	0.83		1.460		56.6	27	106			
Surr: Benzo(e)pyrene	0.22		0.3300		66.8	34.7	131			

Sample ID **lcs-15197**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.28	0.020	0.3300	0	84.5	50.1	116			
1-Methylnaphthalene	0.29	0.020	0.3300	0	87.3	50.8	121			
2-Methylnaphthalene	0.28	0.020	0.3300	0	85.3	50.4	120			
Acenaphthylene	0.27	0.020	0.3300	0	80.5	53	112			
Acenaphthene	0.27	0.020	0.3300	0	80.8	51.4	112			
Fluorene	0.28	0.020	0.3300	0	85.1	51	116			
Phenanthrene	0.27	0.020	0.3300	0	82.6	46.3	120			
Anthracene	0.26	0.020	0.3300	0	79.1	46.4	118			
Fluoranthene	0.27	0.020	0.3300	0	80.4	46.4	123			
Pyrene	0.27	0.020	0.3300	0	82.0	43.3	122			
Benz(a)anthracene	0.25	0.020	0.3300	0	77.0	44.3	118			
Chrysene	0.25	0.020	0.3300	0	76.2	45.5	116			
Benzo(b)fluoranthene	0.28	0.020	0.3300	0	85.1	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409339**

12-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15197**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614831** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.28	0.020	0.3300	0	84.6	49.7	117			
Benzo(a)pyrene	0.27	0.020	0.3300	0	83.0	50.8	111			
Dibenz(a,h)anthracene	0.30	0.020	0.3300	0	92.3	49.8	127			
Benzo(g,h,i)perylene	0.29	0.020	0.3300	0	86.8	46.4	122			
Indeno(1,2,3-cd)pyrene	0.29	0.020	0.3300	0	89.3	50.1	120			
Surr: N-hexadecane	0.71		1.460		48.4	27	106			
Surr: Benzo(e)pyrene	0.20		0.3300		61.2	34.7	131			

Sample ID **1409339-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0086**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614837** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3288	0	81.1	42.6	115			
1-Methylnaphthalene	0.26	0.020	0.3288	0	77.8	42.4	122			
2-Methylnaphthalene	0.26	0.020	0.3288	0	78.9	45.2	120			
Acenaphthylene	0.26	0.020	0.3288	0	78.9	39.7	116			
Acenaphthene	0.24	0.020	0.3288	0	74.3	41.4	119			
Fluorene	0.27	0.020	0.3288	0	81.0	44.2	123			
Phenanthrene	0.29	0.020	0.3288	0	87.5	48	120			
Anthracene	0.28	0.020	0.3288	0	84.7	43.8	120			
Fluoranthene	0.29	0.020	0.3288	0	87.5	54	125			
Pyrene	0.27	0.020	0.3288	0	81.0	55	120			
Benz(a)anthracene	0.25	0.020	0.3288	0	77.0	50.9	125			
Chrysene	0.26	0.020	0.3288	0	78.4	45.3	127			
Benzo(b)fluoranthene	0.26	0.020	0.3288	0	80.4	49.3	131			
Benzo(k)fluoranthene	0.25	0.020	0.3288	0	76.5	50.6	127			
Benzo(a)pyrene	0.26	0.020	0.3288	0	80.5	53.8	117			
Dibenz(a,h)anthracene	0.30	0.020	0.3288	0	89.9	52	130			
Benzo(g,h,i)perylene	0.28	0.020	0.3288	0	86.1	49.4	123			
Indeno(1,2,3-cd)pyrene	0.28	0.020	0.3288	0	86.2	49.5	124			
Surr: N-hexadecane	0.68		1.455		46.6	27	106			
Surr: Benzo(e)pyrene	0.18		0.3288		54.0	34.7	131			

Sample ID **1409339-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0086**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3297	0	82.7	42.6	115	2.24	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409339**

12-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409339-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0086**	Batch ID: **15197**	RunNo: **21127**
Prep Date: **9/9/2014**	Analysis Date: **9/10/2014**	SeqNo: **614838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.28	0.020	0.3297	0	83.5	42.4	122	7.40	20	
2-Methylnaphthalene	0.26	0.020	0.3297	0	79.3	45.2	120	0.777	21.2	
Acenaphthylene	0.25	0.020	0.3297	0	77.1	39.7	116	2.07	20	
Acenaphthene	0.24	0.020	0.3297	0	73.7	41.4	119	0.553	20.5	
Fluorene	0.26	0.020	0.3297	0	79.1	44.2	123	2.13	20	
Phenanthrene	0.28	0.020	0.3297	0	84.0	48	120	3.74	22	
Anthracene	0.27	0.020	0.3297	0	81.9	43.8	120	3.13	26.6	
Fluoranthene	0.28	0.020	0.3297	0	85.2	54	125	2.43	23.7	
Pyrene	0.26	0.020	0.3297	0	77.6	55	120	4.07	29.3	
Benz(a)anthracene	0.26	0.020	0.3297	0	77.7	50.9	125	1.18	25.4	
Chrysene	0.26	0.020	0.3297	0	77.5	45.3	127	0.901	27.6	
Benzo(b)fluoranthene	0.26	0.020	0.3297	0	78.7	49.3	131	1.89	20	
Benzo(k)fluoranthene	0.25	0.020	0.3297	0	77.0	50.6	127	0.832	31.3	
Benzo(a)pyrene	0.26	0.020	0.3297	0	78.1	53.8	117	2.79	22.1	
Dibenz(a,h)anthracene	0.28	0.020	0.3297	0	85.6	52	130	4.69	21.2	
Benzo(g,h,i)perylene	0.27	0.020	0.3297	0	82.9	49.4	123	3.44	25.9	
Indeno(1,2,3-cd)pyrene	0.27	0.020	0.3297	0	83.2	49.5	124	3.19	20.4	
Surr: N-hexadecane	0.68		1.459		46.7	27	106	0	0	
Surr: Benzo(e)pyrene	0.18		0.3297		55.8	34.7	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409339** RcptNo: **1**

Received by/date: 09/08/14

Logged By: **Ashley Gallegos** **9/8/2014 4:53:00 PM**

Completed By: **Ashley Gallegos** **9/8/2014 4:54:50 PM**

Reviewed By: 09/08/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)

Adjusted? ____

Checked by: ____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.9	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-EXCSO-23

Page 1 of 1

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 08 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ———

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/8/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/8/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 9.9°C on ice	Date: 09/08/14 Time: 1653
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: FFOR-EXCSO-08=2.3 ppm, FFOR-EXCSO-09=1.9 ppm, FFOR-EXCSO-10=92.0 ppm

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0086	FFOR-EXCSO-08-SO-FFOR-CF-0086-RE	08 SEP 2014	09:38	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		140939-0
FFOR-CF-0087	FFOR-EXCSO-09-SO-FFOR-CF-0087-RE	08 SEP 2014	11:12	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-00
FFOR-CF-0088	FFOR-EXCSO-10-SO-FFOR-CF-0088-RE	08 SEP 2014	13:29	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		-00

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409490

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/10/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0089
Project: Kirtland AFB
Collection Date: 9/10/2014 8:39:00 AM
Lab ID: 1409490-001
Matrix: SOIL
Received Date: 9/10/2014 5:14:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	0.013	0.0056	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
1-Methylnaphthalene	0.079	0.0056	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
2-Methylnaphthalene	0.068	0.0059	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Acenaphthylene	ND	0.0060	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Acenaphthene	ND	0.0063	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Fluorene	ND	0.0072	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Phenanthrene	0.0066	0.0057	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Anthracene	ND	0.0060	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Fluoranthene	0.0086	0.0062	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Pyrene	0.027	0.0049	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Benz(a)anthracene	0.0056	0.0051	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Chrysene	0.0080	0.0036	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Benzo(b)fluoranthene	0.032	0.0065	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Benzo(k)fluoranthene	ND	0.0081	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Benzo(a)pyrene	ND	0.0076	0.020		mg/Kg	1	9/15/2014 11:34:27 AM	15272
Dibenz(a,h)anthracene	0.0083	0.0073	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Benzo(g,h,i)perylene	0.013	0.0058	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Indeno(1,2,3-cd)pyrene	0.016	0.0068	0.020	J	mg/Kg	1	9/15/2014 11:34:27 AM	15272
Surr: N-hexadecane	106	0	27-106	S	%REC	1	9/15/2014 11:34:27 AM	15272
Surr: Benzo(e)pyrene	110	0	34.7-131		%REC	1	9/15/2014 11:34:27 AM	15272

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409490**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15272**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.7		1.460		120	27	106			S
Surr: Benzo(e)pyrene	0.37		0.3300		113	34.7	131			

Sample ID **lcs-15272**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.30	0.020	0.3300	0	91.7	50.1	116			
1-Methylnaphthalene	0.31	0.020	0.3300	0	94.7	50.8	121			
2-Methylnaphthalene	0.30	0.020	0.3300	0	91.1	50.4	120			
Acenaphthylene	0.31	0.020	0.3300	0	94.1	53	112			
Acenaphthene	0.32	0.020	0.3300	0	95.7	51.4	112			
Fluorene	0.30	0.020	0.3300	0	90.7	51	116			
Phenanthrene	0.30	0.020	0.3300	0	91.6	46.3	120			
Anthracene	0.30	0.020	0.3300	0	92.4	46.4	118			
Fluoranthene	0.32	0.020	0.3300	0	98.2	46.4	123			
Pyrene	0.34	0.020	0.3300	0	102	43.3	122			
Benz(a)anthracene	0.33	0.020	0.3300	0	101	44.3	118			
Chrysene	0.24	0.020	0.3300	0	71.2	45.5	116			
Benzo(b)fluoranthene	0.33	0.020	0.3300	0	101	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409490**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15272**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.31	0.020	0.3300	0	94.8	49.7	117			
Benzo(a)pyrene	0.31	0.020	0.3300	0	92.5	50.8	111			
Dibenz(a,h)anthracene	0.34	0.020	0.3300	0	104	49.8	127			
Benzo(g,h,i)perylene	0.30	0.020	0.3300	0	92.0	46.4	122			
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.3300	0	98.4	50.1	120			
Surr: N-hexadecane	1.5		1.460		101	27	106			
Surr: Benzo(e)pyrene	0.34		0.3300		102	34.7	131			

Sample ID **1409490-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0089**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617349** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.26	0.020	0.3292	0.01328	74.1	42.6	115			
1-Methylnaphthalene	0.31	0.020	0.3292	0.07938	68.7	42.4	122			
2-Methylnaphthalene	0.31	0.020	0.3292	0.06775	73.6	45.2	120			
Acenaphthylene	0.27	0.020	0.3292	0	81.9	39.7	116			
Acenaphthene	0.28	0.020	0.3292	0	86.1	41.4	119			
Fluorene	0.28	0.020	0.3292	0	86.2	44.2	123			
Phenanthrene	0.30	0.020	0.3292	0.006642	89.0	48	120			
Anthracene	0.28	0.020	0.3292	0	84.5	43.8	120			
Fluoranthene	0.31	0.020	0.3292	0.008635	91.2	54	125			
Pyrene	0.33	0.020	0.3292	0.02657	93.4	55	120			
Benz(a)anthracene	0.32	0.020	0.3292	0.005646	94.0	50.9	125			
Chrysene	0.22	0.020	0.3292	0.007971	64.3	45.3	127			
Benzo(b)fluoranthene	0.33	0.020	0.3292	0.03155	89.6	49.3	131			
Benzo(k)fluoranthene	0.25	0.020	0.3292	0	76.7	50.6	127			
Benzo(a)pyrene	0.25	0.020	0.3292	0	77.2	53.8	117			
Dibenz(a,h)anthracene	0.33	0.020	0.3292	0.008303	96.5	52	130			
Benzo(g,h,i)perylene	0.28	0.020	0.3292	0.01295	81.0	49.4	123			
Indeno(1,2,3-cd)pyrene	0.30	0.020	0.3292	0.01627	85.5	49.5	124			
Surr: N-hexadecane	1.1		1.457		78.3	27	106			
Surr: Benzo(e)pyrene	0.27		0.3292		81.6	34.7	131			

Sample ID **1409490-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0089**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617350** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.29	0.020	0.3282	0.01328	83.3	42.6	115	10.8	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409490**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409490-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0089**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617350** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.35	0.020	0.3282	0.07938	83.8	42.4	122	14.8	20	
2-Methylnaphthalene	0.35	0.020	0.3282	0.06775	87.4	45.2	120	13.5	21.2	
Acenaphthylene	0.29	0.020	0.3282	0	89.1	39.7	116	8.09	20	
Acenaphthene	0.30	0.020	0.3282	0	90.8	41.4	119	5.07	20.5	
Fluorene	0.30	0.020	0.3282	0	90.8	44.2	123	4.95	20	
Phenanthrene	0.31	0.020	0.3282	0.006642	93.6	48	120	4.68	22	
Anthracene	0.31	0.020	0.3282	0	94.7	43.8	120	11.1	26.6	
Fluoranthene	0.34	0.020	0.3282	0.008635	102	54	125	10.8	23.7	
Pyrene	0.35	0.020	0.3282	0.02657	98.6	55	120	4.65	29.3	
Benz(a)anthracene	0.34	0.020	0.3282	0.005646	101	50.9	125	7.12	25.4	
Chrysene	0.23	0.020	0.3282	0.007971	68.1	45.3	127	5.15	27.6	
Benzo(b)fluoranthene	0.35	0.020	0.3282	0.03155	97.4	49.3	131	7.25	20	
Benzo(k)fluoranthene	0.28	0.020	0.3282	0	86.3	50.6	127	11.5	31.3	
Benzo(a)pyrene	0.30	0.020	0.3282	0	90.0	53.8	117	15.1	22.1	
Dibenz(a,h)anthracene	0.35	0.020	0.3282	0.008303	104	52	130	7.36	21.2	
Benzo(g,h,i)perylene	0.31	0.020	0.3282	0.01295	89.4	49.4	123	9.11	25.9	
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.3282	0.01627	94.0	49.5	124	8.77	20.4	
Surr: N-hexadecane	1.4		1.452		95.6	27	106	0	0	
Surr: Benzo(e)pyrene	0.32		0.3282		97.2	34.7	131	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409490** RcptNo: **1**

Received by/date: 09/10/14

Logged By: **Ashley Gallegos** **9/10/2014 5:14:00 PM**

Completed By: **Ashley Gallegos** **9/10/2014 5:15:04 PM**

Reviewed By: 09/10/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐

Samples were collected the same day and chilled.

6. Sample(s) in proper container(s)? Yes ☑ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
9. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.0	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-24

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 10 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: —

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive [ ] (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/10/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/10/14 Time: 1630
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 11.0°C	Date: 09/10/14 Time: 1714
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: PID HEADSPACE: 186 PPM

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0089	FFOR-EXCSO-11-SO-FFOR-CF-0089-RE	10 SEP 2014	08:39	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		1409490-0

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 18, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409570

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/11/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0090
Project: Kirtland AFB
Collection Date: 9/11/2014 7:56:00 AM
Lab ID: 1409570-001
Matrix: SOIL
Received Date: 9/11/2014 5:08:00 PM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	0.011	0.011	0.040	J	mg/Kg	1	9/15/2014 12:43:55 PM	15272
1-Methylnaphthalene	ND	0.011	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
2-Methylnaphthalene	ND	0.012	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Acenaphthylene	ND	0.012	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Acenaphthene	0.023	0.013	0.040	J	mg/Kg	1	9/15/2014 12:43:55 PM	15272
Fluorene	0.017	0.014	0.040	J	mg/Kg	1	9/15/2014 12:43:55 PM	15272
Phenanthrene	0.14	0.011	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Anthracene	0.037	0.012	0.040	J	mg/Kg	1	9/15/2014 12:43:55 PM	15272
Fluoranthene	0.21	0.012	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Pyrene	0.18	0.0098	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Benz(a)anthracene	0.12	0.010	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Chrysene	0.11	0.0072	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Benzo(b)fluoranthene	0.26	0.013	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Benzo(k)fluoranthene	ND	0.016	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Benzo(a)pyrene	0.11	0.015	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Dibenz(a,h)anthracene	0.32	0.015	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Benzo(g,h,i)perylene	0.75	0.012	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Indeno(1,2,3-cd)pyrene	0.26	0.014	0.040		mg/Kg	1	9/15/2014 12:43:55 PM	15272
Surr: N-hexadecane	107	0	27-106	S	%REC	1	9/15/2014 12:43:55 PM	15272
Surr: Benzo(e)pyrene	119	0	34.7-131		%REC	1	9/15/2014 12:43:55 PM	15272

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409570**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15272**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617325** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.7		1.460		120	27	106			S
Surr: Benzo(e)pyrene	0.37		0.3300		113	34.7	131			

Sample ID **lcs-15272**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.30	0.020	0.3300	0	91.7	50.1	116			
1-Methylnaphthalene	0.31	0.020	0.3300	0	94.7	50.8	121			
2-Methylnaphthalene	0.30	0.020	0.3300	0	91.1	50.4	120			
Acenaphthylene	0.31	0.020	0.3300	0	94.1	53	112			
Acenaphthene	0.32	0.020	0.3300	0	95.7	51.4	112			
Fluorene	0.30	0.020	0.3300	0	90.7	51	116			
Phenanthrene	0.30	0.020	0.3300	0	91.6	46.3	120			
Anthracene	0.30	0.020	0.3300	0	92.4	46.4	118			
Fluoranthene	0.32	0.020	0.3300	0	98.2	46.4	123			
Pyrene	0.34	0.020	0.3300	0	102	43.3	122			
Benz(a)anthracene	0.33	0.020	0.3300	0	101	44.3	118			
Chrysene	0.24	0.020	0.3300	0	71.2	45.5	116			
Benzo(b)fluoranthene	0.33	0.020	0.3300	0	101	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409570**

18-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15272**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15272**	RunNo: **21200**
Prep Date: **9/14/2014**	Analysis Date: **9/15/2014**	SeqNo: **617346** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.31	0.020	0.3300	0	94.8	49.7	117			
Benzo(a)pyrene	0.31	0.020	0.3300	0	92.5	50.8	111			
Dibenz(a,h)anthracene	0.34	0.020	0.3300	0	104	49.8	127			
Benzo(g,h,i)perylene	0.30	0.020	0.3300	0	92.0	46.4	122			
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.3300	0	98.4	50.1	120			
Surr: N-hexadecane	1.5		1.460		101	27	106			
Surr: Benzo(e)pyrene	0.34		0.3300		102	34.7	131			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **CB & I Federal Services L** Work Order Number: **1409570** RcptNo: **1**

Received by/date: 09/11/14

Logged By: **Ashley Gallegos** **9/11/2014 5:08:00 PM**

Completed By: **Ashley Gallegos** **9/11/2014 5:09:03 PM**

Reviewed By: 09/11/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Not Present			

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-25

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: 48 hr

Samples Shipment Date: 11 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ~~———~~

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

Special Instructions:

Possible Hazard Indentification: Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal: Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/11/14 Time: 1630	1. Received By (Signature/Affiliation)	Date: 9/11/14 Time: 1632
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 4.0 °C	Date: 09/11/14 Time: 1708 ~~1508~~
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: ~~PID HEADSPACE 0.3 PPM~~

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0090	FFOR-EXCSO-12-SO-FFOR-CF-0090-RE	11 SEP 2014	07:56	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		1409570 -001

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 22, 2014

Susan Huang
CB & I Federal Services LLC
4005 Port Chicago Highway
Concord, CA 94520-1120
TEL:
FAX

RE: Kirtland AFB OrderNo.: 1409712

Dear Susan Huang:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/16/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CB & I Federal Services LLC
Client Sample ID: FFOR-CF-0091
Project: Kirtland AFB
Collection Date: 9/16/2014 7:40:00 AM
Lab ID: 1409712-001
Matrix: SOIL
Received Date: 9/16/2014 9:00:00 AM

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8270C: PAHS							Analyst: **DAM**	
Naphthalene	ND	0.0055	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
1-Methylnaphthalene	ND	0.0055	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
2-Methylnaphthalene	ND	0.0058	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Acenaphthylene	ND	0.0059	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Acenaphthene	ND	0.0062	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Fluorene	ND	0.0071	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Phenanthrene	ND	0.0056	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Anthracene	ND	0.0059	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Fluoranthene	ND	0.0061	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Pyrene	ND	0.0048	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Benz(a)anthracene	ND	0.0050	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Chrysene	ND	0.0036	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Benzo(b)fluoranthene	ND	0.0064	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Benzo(k)fluoranthene	ND	0.0080	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Benzo(a)pyrene	ND	0.0075	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Dibenz(a,h)anthracene	ND	0.0072	0.020		mg/Kg	1	9/17/2014 1:02:57 PM	15318
Benzo(g,h,i)perylene	0.013	0.0057	0.020	J	mg/Kg	1	9/17/2014 1:02:57 PM	15318
Indeno(1,2,3-cd)pyrene	0.013	0.0067	0.020	J	mg/Kg	1	9/17/2014 1:02:57 PM	15318
Surr: N-hexadecane	97.9	0	27-106		%REC	1	9/17/2014 1:02:57 PM	15318
Surr: Benzo(e)pyrene	102	0	34.7-131		%REC	1	9/17/2014 1:02:57 PM	15318

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409712**

22-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **mb-15318**	SampType: **MBLK**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **PBS**	Batch ID: **15318**	RunNo: **21259**
Prep Date: **9/16/2014**	Analysis Date: **9/17/2014**	SeqNo: **619872** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								
Benzo(b)fluoranthene	ND	0.020								
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.7		1.460		117	27	106			S
Surr: Benzo(e)pyrene	0.38		0.3300		116	34.7	131			

Sample ID **lcs-15318**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15318**	RunNo: **21259**
Prep Date: **9/16/2014**	Analysis Date: **9/17/2014**	SeqNo: **619873** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3300	0	83.1	50.1	116			
1-Methylnaphthalene	0.28	0.020	0.3300	0	84.9	50.8	121			
2-Methylnaphthalene	0.27	0.020	0.3300	0	81.4	50.4	120			
Acenaphthylene	0.31	0.020	0.3300	0	94.4	53	112			
Acenaphthene	0.33	0.020	0.3300	0	100	51.4	112			
Fluorene	0.31	0.020	0.3300	0	93.7	51	116			
Phenanthrene	0.33	0.020	0.3300	0	98.7	46.3	120			
Anthracene	0.32	0.020	0.3300	0	95.8	46.4	118			
Fluoranthene	0.31	0.020	0.3300	0	93.8	46.4	123			
Pyrene	0.31	0.020	0.3300	0	93.5	43.3	122			
Benz(a)anthracene	0.32	0.020	0.3300	0	95.7	44.3	118			
Chrysene	0.22	0.020	0.3300	0	66.6	45.5	116			
Benzo(b)fluoranthene	0.32	0.020	0.3300	0	96.7	50.5	123			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409712**

22-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **lcs-15318**	SampType: **LCS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **LCSS**	Batch ID: **15318**	RunNo: **21259**
Prep Date: **9/16/2014**	Analysis Date: **9/17/2014**	SeqNo: **619873** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.28	0.020	0.3300	0	85.9	49.7	117			
Benzo(a)pyrene	0.27	0.020	0.3300	0	82.7	50.8	111			
Dibenz(a,h)anthracene	0.35	0.020	0.3300	0	105	49.8	127			
Benzo(g,h,i)perylene	0.31	0.020	0.3300	0	94.7	46.4	122			
Indeno(1,2,3-cd)pyrene	0.33	0.020	0.3300	0	99.4	50.1	120			
Surr: N-hexadecane	1.6		1.460		107	27	106			S
Surr: Benzo(e)pyrene	0.33		0.3300		98.6	34.7	131			

Sample ID **1409712-001ams**	SampType: **MS**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0091**	Batch ID: **15318**	RunNo: **21259**
Prep Date: **9/16/2014**	Analysis Date: **9/17/2014**	SeqNo: **619875** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.25	0.020	0.3292	0	76.5	42.6	115			
1-Methylnaphthalene	0.25	0.020	0.3292	0	76.0	42.4	122			
2-Methylnaphthalene	0.25	0.020	0.3292	0	76.1	45.2	120			
Acenaphthylene	0.28	0.020	0.3292	0	83.8	39.7	116			
Acenaphthene	0.29	0.020	0.3292	0	88.5	41.4	119			
Fluorene	0.29	0.020	0.3292	0	88.8	44.2	123			
Phenanthrene	0.28	0.020	0.3292	0	84.8	48	120			
Anthracene	0.27	0.020	0.3292	0	82.7	43.8	120			
Fluoranthene	0.29	0.020	0.3292	0	89.0	54	125			
Pyrene	0.30	0.020	0.3292	0	91.7	55	120			
Benz(a)anthracene	0.31	0.020	0.3292	0	94.2	50.9	125			
Chrysene	0.21	0.020	0.3292	0	63.5	45.3	127			
Benzo(b)fluoranthene	0.31	0.020	0.3292	0	94.7	49.3	131			
Benzo(k)fluoranthene	0.25	0.020	0.3292	0	74.8	50.6	127			
Benzo(a)pyrene	0.26	0.020	0.3292	0	80.0	53.8	117			
Dibenz(a,h)anthracene	0.33	0.020	0.3292	0	99.6	52	130			
Benzo(g,h,i)perylene	0.29	0.020	0.3292	0.01254	84.7	49.4	123			
Indeno(1,2,3-cd)pyrene	0.30	0.020	0.3292	0.01254	88.7	49.5	124			
Surr: N-hexadecane	1.3		1.457		89.2	27	106			
Surr: Benzo(e)pyrene	0.27		0.3292		82.9	34.7	131			

Sample ID **1409712-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8270C: PAHs**
Client ID: **FFOR-CF-0091**	Batch ID: **15318**	RunNo: **21259**
Prep Date: **9/16/2014**	Analysis Date: **9/17/2014**	SeqNo: **619876** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.26	0.020	0.3289	0	78.3	42.6	115	2.25	29.7	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- O RSD is greater than RSDlimit
- P Sample pH greater than 2.
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409712**

22-Sep-14

Client: CB & I Federal Services LLC

Project: Kirtland AFB

Sample ID **1409712-001amsd** SampType: **MSD** TestCode: **EPA Method 8270C: PAHs**

Client ID: **FFOR-CF-0091** Batch ID: **15318** RunNo: **21259**

Prep Date: **9/16/2014** Analysis Date: **9/17/2014** SeqNo: **619876** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.27	0.020	0.3289	0	81.7	42.4	122	7.20	20	
2-Methylnaphthalene	0.27	0.020	0.3289	0	83.0	45.2	120	8.66	21.2	
Acenaphthylene	0.29	0.020	0.3289	0	89.1	39.7	116	5.98	20	
Acenaphthene	0.31	0.020	0.3289	0	94.5	41.4	119	6.52	20.5	
Fluorene	0.30	0.020	0.3289	0	92.7	44.2	123	4.24	20	
Phenanthrene	0.30	0.020	0.3289	0	90.5	48	120	6.35	22	
Anthracene	0.27	0.020	0.3289	0	83.0	43.8	120	0.266	26.6	
Fluoranthene	0.31	0.020	0.3289	0	92.9	54	125	4.23	23.7	
Pyrene	0.32	0.020	0.3289	0	97.3	55	120	5.78	29.3	
Benz(a)anthracene	0.32	0.020	0.3289	0	98.7	50.9	125	4.51	25.4	
Chrysene	0.22	0.020	0.3289	0	66.7	45.3	127	4.71	27.6	
Benzo(b)fluoranthene	0.33	0.020	0.3289	0	101	49.3	131	6.30	20	
Benzo(k)fluoranthene	0.27	0.020	0.3289	0	82.1	50.6	127	9.17	31.3	
Benzo(a)pyrene	0.28	0.020	0.3289	0	85.5	53.8	117	6.49	22.1	
Dibenz(a,h)anthracene	0.34	0.020	0.3289	0	105	52	130	4.94	21.2	
Benzo(g,h,i)perylene	0.30	0.020	0.3289	0.01254	88.1	49.4	123	3.71	25.9	
Indeno(1,2,3-cd)pyrene	0.31	0.020	0.3289	0.01254	91.9	49.5	124	3.33	20.4	
Surr: N-hexadecane	1.4		1.455		96.2	27	106	0	0	
Surr: Benzo(e)pyrene	0.32		0.3289		98.8	34.7	131	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CB & I Federal Services L Work Order Number: 1409712 RcptNo: 1

Received by/date: AT 09/16/14

Logged By: Anne Thorne 9/16/2014 9:00:00 AM

Completed By: Anne Thorne 9/16/2014

Reviewed By: AT 09/16/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.0	Good	Not Present			

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-FFOREXC-26

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: David Aubrey
Turnaround Time: ~~48 hr~~ 24 if possible

Samples Shipment Date: 16 SEP 2014
Lab Destination: Hall Environmental Analysis Laboratory
Lab Contact: Andy Freeman
Project Contact: Susan Huang
Carrier/Waybill No.: ———

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Susan Huang
4005 Port Chicago Highway
Concord CA 94520-1120

EAL 409712

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 9/16/14 Time: 0840	1. Received By (Signature/Affiliation)	Date: 9/16/14 Time: 0840
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation) 09/16/14 0900	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments: ~~PID IN FFOR-CF-0091 = 0.0 PPM~~ 10.0

EAL # 409712-001

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
FFOR-CF-0091	FFOR-EXCSO-13-SO-FFOR-CF-0091-RE	16 SEP 2014	07:40	8 oz CWM	1	None except cool to 4 C	PAHs by SW846 8270D (Low Level - SIM)			N		

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